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October 8, 2024

Honorable Mayor and City Council City of Hopkins 1010 1st St S Hopkins, MN 55343

RE: Central Avenues Improvements Phase 2 – Feasibility Report

City Project No. 2024-10

BMI Project No. 24X.134763.000

Mayor and Council Members:

In accordance with your direction, the following Feasibility Report has been prepared for the Central Avenues Improvements Phase 2 project. This report is an extension of the Project Scoping Study Report completed this past summer.

As a part of the feasibility study, the various public utilities, pedestrian facilities, and associated impacts of improvement have been reviewed. Necessary improvements have then been recommended where appropriate. Estimated project costs and preliminary assessments have been calculated and included with these findings.

During the process of studying the existing conditions within the project areas, meetings were held, and input was received from area residents, City staff, and permitting partners. We would like to acknowledge the cooperation and information received and thank all parties for their support in helping us better understand the problems and concerns within the project area.

Respectfully submitted,

Bolton & Menk, Inc.

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Senior Associate Project Manager

Central Avenues Improvements Phase 2

Feasibility Report

City of Hopkins City Project No. 2024-10 BMI Project No. 24X.134763.000



Submitted by:

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Certification

Feasibility Report

for

Central Avenues Improvements Phase 2

City of Hopkins

October 2024

PROFESSIONAL ENGINEER

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.

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I. Executive Summary

A. Background Information

The Hopkins City Council ordered the preparation of this feasibility report at its September 10, 2024 meeting. This report is an extension of the scoping study that was completed in the Summer of 2024 to better identify the infrastructure improvements that are needed within the Central Avenues neighborhood. In general, the goal of the project is to preserve the investments Hopkins has made in its infrastructure with proper upkeep through the City's Pavement Management Program. The feasibility report has been completed to confirm the appropriate improvements needed based on the project scoping study report, as well as the associated project costs and preliminary estimated assessments.

B. Proposed Improvements

This report examines potential street and utility construction of several streets in the Central Avenues Neighborhood in the City of Hopkins. These areas are depicted in Figure 1 of Appendix B. The proposed improvements are described in the body of this report and are graphically illustrated in Appendix B. In brief, the proposed improvements consist of:

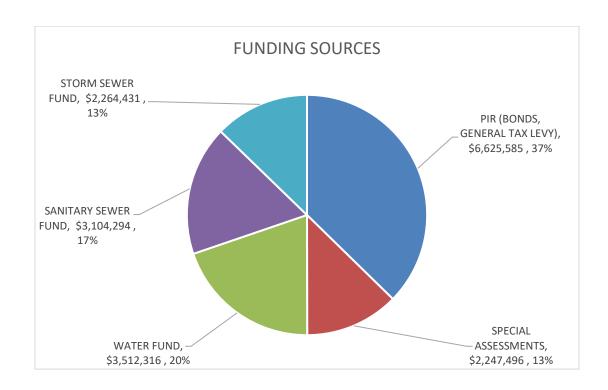
- Full reconstruction of the following street sections in the Central Avenues
 Neighborhood with replacement of concrete curb and gutter and concrete sidewalk,
 and replacement or rehabilitation of watermain, sanitary sewer, and storm sewer
 utilities.
 - o 9th Ave N from 1st St N to 3rd St N
 - \circ 10th Ave N from 1st St N to 4th St N
 - o 11th Ave N from 1st St N to Minnetonka Mills Rd
 - o 12th Ave N from 1st St N to Highway 7
 - o 13th Ave N from the dead-end north of Maetzold Field to South Service Dr
 - o 3rd St N from 9th Ave N to 11th Ave N
 - \circ 4th St N from 9th Ave N to 10th Ave N and from 11th Ave N to 12th Ave N
- Reclamation and resurfacing of 3rd St N from 11th Ave N to 15th Ave N.
- Mill and overlay of 2nd St N from 8th Ave N to 12th Ave N.

C. Estimated Costs and Proposed Funding

Cost estimates have been prepared to address the varying needs of all areas reviewed. Detailed cost estimates are provided in Appendix A and summarized below in Table 1.

| Table ES-1 – Estimated Cost of Proposed C | Central Avenues Improvements Phase 2 |
|--|--------------------------------------|
| Proposed Street Improvements | \$5,253,000 |
| Proposed Pedestrian Facility Improvements | \$1,285,000 |
| Proposed Sanitary Sewer Improvements | \$2,288,000 |
| Proposed Watermain Improvements | \$2,588,000 |
| Proposed Storm Sewer Improvements | \$1,669,000 |
| Construction Cost Subtotal | \$13,083,000 |
| Contingencies (15%) | \$1,963,000 |
| Construction Cost with Contingencies (15%) | \$15,046,000 |
| Engineering & Administration (18%) | \$2,708,000 |
| Total Estimated Project Costs | \$17,754,000 |

These improvements would be funded with general obligation bonds, utility funds, and assessments to individual properties. The chart below illustrates proposed funding sources inclusive of contingencies, engineering, and administration.



II. Scoping Study Introduction

This report examines the proposed street and utility improvements including storm sewer replacement, water main replacement, sanitary sewer replacement, and street reconstruction or resurfacing throughout the Central Avenues Neighborhood. The following streets that will be included in this study are shown on Figure 1 in Appendix B and listed below:

- 9th Ave N from 1st St N to 3rd St N
- 10th Ave N from 1st St N to 4th St N
- 11th Ave N from 1st St N to Minnetonka Mills Rd
- 12th Ave N from 1st St N to Highway 7
- 13th Ave N from the dead-end north of Maetzold Field to South Service Dr
- 2nd St N from 8th Ave N to 12th Ave N
- 3rd St N from 9th Ave N to 15th Ave N
- 4th St N from 9th Ave N to 10th Ave N and from 11th Ave N to 12th Ave N

The improvements on these streets will include some or all of the following proposed work:

- Addition/replacement of storm sewer
- Watermain replacement
- Water service replacement
- Sanitary sewer replacement
- Sanitary sewer rehabilitation
- Sanitary sewer service replacement
- Concrete curb & gutter replacement
- Bituminous street removal and reconstruction
- Bituminous street resurfacing
- Concrete sidewalk replacement

III. Background

The Central Avenues Neighborhood has been included in the City's Capital Improvement Plan in some capacity for the several years. The Hopkins City Council ordered the preparation of this feasibility report at its September 10, 2024 meeting after the completion of the scoping study report which determined the scope and size of the project. It was also determined that this project will be constructed over two construction seasons and under one construction contract to be more efficient and cost effective with the proposed improvements. Preliminary construction phasing can be seen on Figure 1 in Appendix B, which displays how the project will be broken up into two construction seasons. Based upon direction by Council, construction for these project improvements is proposed to begin in either the Spring of 2025 or 2026. The feasibility study and report has been completed to better identify the infrastructure improvements needed within the Central Avenues neighborhood and to better define costs associated with the improvements. This report will be used as the basis for final design and is also a required step in the State's Chapter 429 process for special assessments.

IV. Existing Conditions

A. Streets

The bituminous streets within the project areas are aged and exhibit various levels of wear and distress. This is evident on the surface by transverse, block, and alligator cracking. There is evidence of previous additional street repairs and maintenance throughout the project area including numerous street patches. Examples of the existing pavement conditions are shown below (pictures were taken on 12th Ave N between 1st St N and 2nd St N).



Consistent with observations of the existing pavements made during preparation of this report, the City of Hopkins' Pavement Management System also indicates that the "Pavement Condition Index" (PCI) for several streets in the neighborhood are in fair or poor condition and beyond the pavement's life cycle.

The streets within the project area have varying widths (measured curb face to curb face). Table 1 below summarizes these and other existing conditions. Parking is typically allowed on both sides of the streets throughout the neighborhood. Large, mature trees can be found throughout the project within the City's ROW and near the back of curb.

| | Table 1: Summary of Existing Corridor Conditions | | | | | | | | | |
|------------------------|--|---|--------------------|--|--|--|--|--|--|--|
| Roadway | Existing Street Width | Existing Curb Type | Existing ROW Width | | | | | | | |
| 9 th Ave N | 35 feet | Concrete B618 Curb & Gutter | 66 feet | | | | | | | |
| 10 th Ave N | 36 feet | Concrete B618 Curb & Gutter north of the regional trail; some Curb w/ no gutter south of the regional trail | 66 feet | | | | | | | |
| 11 th Ave N | 31 feet – 35 feet | Concrete B618 Curb & Gutter | 66 feet | | | | | | | |
| 12 th Ave N | 36 feet | Concrete B618 Curb & Gutter north of the regional trail; mostly Curb w/ no gutter south of the regional trail | 66 feet | | | | | | | |
| 13 th Ave N | 36 feet | Concrete B618 Curb & Gutter south of 4 th St N; Curb w/ no gutter north of 4 th St | 66 feet | | | | | | | |
| 2 nd St N | 36 feet | Concrete B618 Curb & Gutter | 66 feet | | | | | | | |
| 3 rd St N | 30 feet | Concrete B618 Curb & Gutter west of 11 th Ave N; mixture of Concrete B618 Curb & Gutter and Curb w/ no gutter between 11 th Ave N and 9 th Ave N | 60 feet | | | | | | | |
| 4 th St N | 36 feet | Curb w/ no gutter | 66 feet | | | | | | | |

Subgrade soil sampling was completed throughout the neighborhood by Braun Intertec in the Summer of 2024. A copy of Braun Intertec's Geotechnical Evaluation Report is included in Appendix E of this report. Twenty-two soil borings and five pavement cores were taken throughout the area and summarized in Table 2 below.

| | Table 2: Summary | of Geotechnical Evaluation | | | |
|------------------------|-------------------------|---|--|--|--|
| Street | Bituminous Thickness | Subgrade Material | | | |
| 9 th Ave N | 4 inches – 5.5 inches | Mixture of silty and clayey sand | | | |
| 10 th Ave N | 4 inches – 9 inches | Mixture of silty, clayey, and poorly graded sand | | | |
| 11 th Ave N | 4.5 inches – 8 inches | Mixture of silty, clayey, and poorly graded sand; gravel with silt; sandy silt; and sandy lean clay | | | |
| 12 th Ave N | 4.5 inches – 6.5 inches | Mixture of silty, clayey, and poorly graded sand; and sandy lean clay | | | |
| 13 th Ave N | 4 inches – 6.5 inches | Mixture of silty, clayey, and poorly graded sand with silt; and lean and sandy lean clay | | | |

| 2 nd St N | 3.5 inches – 5.5 inches | Aggregate base material | | | | |
|----------------------|--------------------------|--|--|--|--|--|
| 3 rd St N | 2 inches – 6.5 inches | Mixture of silty, clayey, and poorly graded sand with silt; lean clay; sandy silt; and possible buried asphalt | | | | |
| 4 th St N | 4.5 inches to 6.5 inches | Mixture of silty, clayey, and poorly graded sand; and sandy lean clay | | | | |

The soils found just beneath pavements in the neighborhood were most commonly fill soils classified as poorly graded sand, silty sand, clayey sand, sandy silt, or lean clay. At least one of the borings in the neighborhood found slightly organic clay (buried topsoil). Buried topsoil is an undesirable material for roadway construction as it's unable to adequately support heavy vehicles, leading to earlier failure of overlying pavements.

B. Storm Sewer

The existing storm sewer systems serving the neighborhood are mostly comprised of reinforced concrete pipe (RCP), varying in size from 12-inch diameter to 60-inch diameter, with some 12-inch diameter clay pipes as well. The storm sewer catch basins and manholes are a mixture of precast concrete and block structures.

The neighborhood generally drains south through an existing 60-inch trunk storm sewer main along the alley between 11th Ave N and 10th Ave N, south of 3rd St N, then turns down 11th Ave N, west on Mainstreet over to 13th Ave S ultimately discharging to Nine Mile Creek near south of Excelsior Blvd. Some of the neighborhood drains to the east and south before turning west south of Mainstreet, but ultimately connects to the same trunk storm sewer system as the rest of the neighborhood that discharges to Nine Mile Creek south of Excelsior Blvd.

Drainage issues have been identified throughout the neighborhood through evaluation of site grades and elevations by the project team and visual inspections from site visits. These drainage issues can be generalized as:

- 1. Due to the flat grades of some of the streets, especially from 2nd St N to 3rd St N on 9th Ave N, 10th Ave N, and 11th Ave N, localized drainage problems are prevalent.
- 2. There is a lack of catch basin inlets at a few of the intersections and alley entrances in the project area, and these limited catch basins can be overloaded during heavier rain events which causes ponding in the street.
- 3. There is a lack of gutters along several of the streets to adequately direct water through areas of flat topography to drainage inlets.
- 4. Many of the sidewalks throughout the neighborhood have isolated low spots and do not drain well after rain events or during snow melt.

Proposed storm sewer improvements are discussed later in this report.

C. Sanitary Sewer

The existing sanitary sewer system throughout the neighborhood primarily consists of 8-inch diameter clay pipe, except for the following blocks that differ in either material or size:

• 11th Ave N from 2nd St N to 3rd St N and 2nd St N from 10th Ave N to 11th Ave N consists of 12-inch diameter clay sewer pipe.

- 11th Ave N from 1st St N to 2nd St N consists of 15-inch diameter clay sewer pipe.
 - The sewer pipe on this block is also deeper than the rest of the sanitary sewer system in the neighborhood at over 20 feet in depth with tall risers off the main for each sanitary sewer service.
- 2nd St N from 8th Ave N to 10th Ave N consists of 10-inch diameter clay sewer pipe.
- An 8-inch PVC (plastic) sewer pipe runs up the alley between 9th Ave N and 10th Ave N from 2nd St N to 4th St N, which serves Alice Smith Elementary School and Eisenhower Elementary School across Highway 7.
 - While this pipe consists of newer material than the rest of the neighborhood, the pipe is in somewhat poor condition with sags, deflections, and dents in the interior of the pipe based on televising in the last 10 years.
 - o It is also not ideal to have a sanitary sewer with a larger flow run down an alley with limited right-of-way for access, maintenance, and repairs.

Clay pipe is susceptible to infiltration and root intrusion over time due to the large number of joints and the deterioration of the gasket material originally used to seal the joints.

The project's sanitary manholes are made of a mixture of brick, concrete block, and precast concrete structures. Brick and block structures were typically built around the 1950's/1960's or earlier, whereas precast structures indicate these structures were replaced at some point after initial construction of the other infrastructure, likely in response to some deficiency with the original structure while some were replaced as part of an adjacent reconstruction project in the past 15 years. Brick and block manholes are susceptible to infiltration over time due to cracks and deterioration of the mortared joints. Precast concrete manholes continue to be used in modern construction and are generally acceptable provided proper gaskets were provided with the initial construction and remain in good working order.

Service lines in the neighborhood are typically 4-inch or 6-inch and their material may be clay, cast iron, orangeburg, transite, or PVC. Clay and orangeburg sanitary sewer pipes are highly susceptible to infiltration by groundwater, causing groundwater to be treated by the Met Council at its treatment facilities downstream at a cost to the public. The vast majority of sanitary sewer mains and service lines in the neighborhood are made of clay material. Based on observations of sewer service replacements to individual properties performed recently in nearby neighborhoods, potential exists for encountering orangeburg sewer service pipes during construction of the project. Orangeburg pipe, which can generally be described as layered tar paper wrapped in a round manner to create a pipe, was commonly installed around the time several neighborhoods in Hopkins originally developed.

Orangeburg pipe is widely known to 'rot' where exposed to water, generally on the bottom of the pipe, and ultimately collapse as it ages and is unable to support the surrounding soil.

Proposed sanitary sewer improvements are discussed later in this report.

D. Watermain

The water main throughout the neighborhood is primarily 6-inch cast iron pipe (CIP). CIP is a common watermain material, however upon reaching its useful life tends to fail. Because it is so brittle, as the soils around the pipe move slowly over decades, CIP cannot support shearing forces and ultimately breaks. These portions of the watermain system were installed in the 1950s and 1960s. CIP installed around this time period was also occasionally installed with lead-packed fittings.

Service lines for single family homes in the project area are typically ¾-inch or 1-inch and their material may be copper, galvanized steel, or lead. However, lead service material (outside of fittings) have not been found on recent reconstruction projects on adjacent streets in the Central Avenues neighborhood.

Proposed watermain improvements are discussed later in this report.

V. Proposed Improvements

A. Streets

Several of the streets within the neighborhood have reached a point where maintenance procedures such as seal coating or milling and overlaying are no longer cost-effective strategies. In addition, the age and material of the underground sewer and water throughout the neighborhood requires that most of the streets are fully reconstructed after the replacement of these utility mains and services nearing the end of their life expectancy. The streets that would be recommended for full reconstruction include:

- 9th Ave N from 1st St N to 3rd St N
- 10th Ave N from 1st St N to 4th St N
- 11th Ave N from 1st St N to Minnetonka Mills Rd
- 12th Ave N from 1st St N to Highway 7
- 13th Ave N from the dead-end north of Maetzold Field to South Service Dr
- 3rd St N from 9th Ave N to 11th Ave N
- 4th St N from 9th Ave N to 10th Ave N and from 11th Ave N to 12th Ave N

Proposed reconstruction improvements include replacement of concrete curb and gutter and replacement of the full depth of the pavement section with underlying aggregate base. It is also recommended to install a sand section under the aggregate base for additional roadway stability and pavement longevity. Concrete curb will be replaced per City Policy 8.02 with B618 concrete curb and gutter, which will help extend the life of the pavement by keeping water out of the subgrade and will provide a solid edge for the asphalt pavement. Some of the streets within the neighborhood, including blocks of 10th Ave N, 12th Ave N, 13th Ave N, 3rd St N, and 4th St N, do not have an existing concrete gutter, just a curb back which does not convey stormwater effectively. Existing drainage patterns will be maintained and the elevation of the existing roadways at their edge is proposed to approximate the existing elevations. Attempts at lowering the road will be made (during final design) where appropriate to improve drainage within and toward the street where beneficial and practical.

Proposed street widths from face of curb to face of curb will vary from street to street throughout the neighborhood but will generally be narrowed on reconstructed streets to the City's standard width for residential streets (28 feet wide from curb face to face) where feasible. Using a proposed street width of 28 feet will provide a consistent street width along each roadway's length, reduce impervious area to reduce costs and stormwater management needs, and create a wider turf boulevard for healthier trees, additional snow storage, and increased pedestrian safety.

The following specific improvements are proposed for each unique roadway corridor:

- 9th Ave N is proposed to be reconstructed, including the replacement of concrete curb and gutter, at 28 feet wide from curb face to face. This will narrow the road by approximately 7 feet. Parking regulations will remain consistent with existing conditions throughout this area. The City and project team will continue to evaluate the proposed roadway width along 9th Ave N based on comments and feedback from residents at the first neighborhood meeting (see Appendix D).
- 10th Ave N is proposed to be reconstructed, including the replacement of concrete curb and gutter, at 28 feet wide from curb face to face. This will narrow the road by approximately 8 feet. Parking regulations will remain consistent with existing conditions throughout this area.
- 11th Ave N is proposed to be reconstructed, including the replacement of concrete curb and gutter, at 28 feet wide from curb face to face. This will narrow the road by approximately 3 feet on the north end of 11th Ave, and up to 7 feet near 1st St N. Parking regulations will remain consistent with existing conditions throughout this area.
- 12th Ave N is proposed to be reconstructed, including the replacement of concrete curb and gutter, at 36 feet wide from curb face to face. This road is proposed to remain the same width at 36 feet due to it being a state aid route, truck route, and corridor that is used for additional parking, especially along Maetzold Field south of 2nd St N. Parking regulations will remain consistent with existing conditions throughout this area.
- 13th Ave N is proposed to be reconstructed, including the replacement of concrete curb and gutter, at 28 feet wide from curb face to face. This will narrow the road by approximately 8 feet. Parking regulations will remain consistent with existing conditions throughout this area.
- 3rd St N from 9th Ave N to 11th Ave N is proposed to be reconstructed, including the replacement of concrete curb and gutter, at 28 feet wide from curb face to face. This will narrow the road by approximately 2 feet. Parking regulations will be consistent with existing conditions throughout this area.
- 4th St N is proposed to be reconstructed, including the replacement of concrete curb and gutter, at 34 feet wide from curb face to face. This will narrow the road by approximately 2 feet. This road is proposed to be similar to the existing street width at approximately 36 feet because the adjacent blocks along the 4th St N corridor that are outside the scope of the project are currently around 35' wide from curb face to curb face. Narrowing 4th St N down to 28 feet wide like some of the other streets is not proposed since this would result in street width inconsistency along the corridor. Parking regulations will remain consistent with existing conditions throughout this area.

The minimum proposed street grade is 0.50% consistent with City standards. Street grades flatter than 0.50% are undesirable for drainage. In some areas, new low points with adequate storm sewer will need to be created to increase roadway longitudinal slope for

proper drainage. These locations will be confirmed during the final design process, but a few locations have been identified based on a review of the existing topography and site conditions including 9^{th} Ave N, 10^{th} Ave N, and 11^{th} Ave N between 2^{nd} St N and 3^{rd} St N. Overall drainage patterns/directions throughout the project area are not proposed to change.

The preliminary proposed typical pavement section for all reconstructed streets consists of 2-inches wearing course bituminous pavement, 2-inches non-wear course bituminous pavement, 8-inches aggregate base class 5, 12-inches select granular, and spot subgrade soil corrections. The exception to this pavement section is on 12th Ave N, where a 3-inch non-wear course bituminous pavement section would be proposed due to the higher traffic levels, including truck traffic.

Pavement maintenance is proposed for the following streets in the project area:

- 2nd St N from 8th Ave N to 12th Ave N
 - A 2-inch mill and overlay is recommended based on the PCI rating and a
 geotechnical investigation of the existing pavement conditions, confirming this
 to be a feasible maintenance operation for the pavement. This will extend the
 life of the pavement at a significantly lower cost than full reconstruction.
 - The existing B618 curb and gutter is in relatively good condition, requiring minimal spot concrete repairs.
 - The original underground sanitary sewer from 8th Ave N to 11th Ave N can be rehabilitated without excavation using a CIPP (cured in place pipe) liner since there are no confirmed sewer services to replace along the corridor. This is discussed further in the proposed sanitary sewer improvements section later in this report.
 - There is no watermain along 2nd St N and the storm sewer is not in need of replacement except for the catch basin inlets at the intersections, which would be reconstructed with the improvements to 9th Ave N, 10th Ave N, 11th Ave N, and 12th Ave N.
- 3rd St N from 11th Ave N to 15th Ave N
 - Reclamation and resurfacing with 2-inches wearing course and 2-inches non-wearing course bituminous pavement is recommended based on the PCI rating and a geotechnical investigation of the existing pavement conditions, confirming this to be a feasible maintenance operation for the pavement. While the pavement is not in good enough condition for a cheaper mill and overlay operation, reclaiming the existing bituminous pavement and underlying aggregate base to pave a new bituminous pavement section overtop will extend the life of the pavement longer than a mill and overlay and still at a significantly lower cost than full reconstruction.
 - The existing B618 curb and gutter is in relatively good condition, requiring only spot concrete repairs.

- The original underground sanitary sewer can be rehabilitated without excavation using a CIPP (cured in place pipe) liner since there are no confirmed sewer services to replace along the corridor. This is discussed further in the proposed sanitary sewer improvements section later in this report.
- The original watermain from 11th Ave N and 13th Ave N has no confirmed services and is not needed for the water distribution system, so this watermain does not need to be replaced and can be abandoned without excavation. This is discussed further in the proposed watermain improvements section later in this report.
- The storm sewer is not in need of replacement except for the catch basin inlets at some of the intersections, which would be reconstructed with the improvements to 13th Ave N, 12th Ave N, 11th Ave N, and 10th Ave N.

B. Storm Sewer

Most of the smaller 12-inch diameter storm sewer in the neighborhood would be reconstructed for constructability of other utilities, changing curb alignment, replacing aging materials, or increasing the storm water pipe capacities to meet City standards for a 10-year rainfall event. Storm sewer will generally be replaced in the same location as the existing system, other than some additional catch basin inlets and storm sewer pipe as needed for drainage and stormwater capacity. Most of the larger diameter storm sewer (27-inches and larger) is in good condition and would not be replaced as part of the proposed improvements. However, some of the existing manholes are in poor condition (constructed from old block material) and are proposed to be replaced as part of the project improvements. The following is a summary of the most significant improvements proposed to the storm sewer system, and proposed stormwater improvements are also shown in Appendix B.

- 12-inch diameter storm sewer along 12th Ave N (south of 3rd St N), 11th Ave N (north of 4th St N), and 4th St N would be replaced with 15-inch or 18-inch diameter storm sewer.
- Storm sewer along 12th Ave N (north of 1st St N) would be replaced with a minimum pipe size of 24-inch diameter storm sewer.
- Storm sewer will be extended down 9th Ave N, 10th Ave N, and 11th Ave N between 2nd St N and 3rd St N to mid-block, with additional catch basin inlets to create a new low point on this block with flat grades. This will improve drainage on this block by providing a location for the water to flow in the curb line. While other blocks in the project area are not as flat as these 3 blocks, they will also be evaluated further during final design to determine if additional storm sewer pipe and catch basins will be necessary for proper drainage.
- Storm sewer catch basin inlets will be added and reconfigured at intersections to improve the efficiency of stormwater runoff collection during larger rain events, and to provide appropriate pedestrian ramp access.
- Storm sewer catch basin inlets will be added at and near alley entrances to improve the efficiency of stormwater runoff collection during larger rain events and to minimize the spread of stormwater into the street during such events.

C. Stormwater Management

The proposed improvements will result in more than 1 acre of impervious pavement reconstruction; therefore, stormwater management will be required by the Municipal Separate Storm Sewer System (MS4) General Permit and Nine Mile Creek Watershed District (NMCWD) with their updated rules to align with MS4 permit requirements.

The water quality volume was calculated as one-half (0.5) inch times the sum of the new and fully reconstructed impervious surface (estimated to be 10.2 acres), equaling approximately 18,500 cubic feet of required water quality volume to be treated with the improvements for Central Avenues Phase 2. During final design, the actual treatment volume will be verified, but feasible treatment options have been investigated to maximize the treatment of the water quality volume prior to discharge from the MS4:

1. Reduction in Impervious Surface

- The reduction in impervious surface from narrowing the roads (a reduction of 1.4 acres) will not count towards any water quality volume treatment, but it does reduce the amount of volume that needs to be treated for the project improvements.
- This comes at no additional cost to the project since it is already planned to be included in the improvements and is a cost savings due to the reduction in pavement area.
- 2. Infiltration Pipes along the west side of 12th Ave N by Maetzold Field
 - The soil types along the 12th Ave N boulevard are not favorable for infiltration so this option is no longer being considered.
 - However, there is a low green space area near the Maetzold Field bullpens to the west of 12th Ave N that has sandy soils for infiltration just 5 feet below the surface. An infiltration basin could be considered here if the top 5 feet of soil is removed and replaced with sandy soils and would provide some stormwater treatment for the surrounding area.
- 3. Underground Chambers in the Parking Lot at 10th Ave N & 1st St N
 - This option was previously considered as part of the project scoping study, however, the City is putting together an RFP to sell this parking lot to a developer which would most likely result in a new structure with an underground foundation. Therefore, this option is no longer being considered.
- 4. Stormwater Wet Pond at Valley Park
 - This was a regional treatment option that was considered as part of the project scoping study, but this option is no longer being considered at this time due to it being outside the scope of the project improvements and creating potential conflicts with the City's Park System Master Plan. A stormwater treatment pond at Valley Park may be considered in the future when Valley Park improvements are implemented based on the Park System Master Plan.

Bolton & Menk and City staff have had preliminary discussions with representatives from Nine Mile Creek Watershed District and the Watershed recognizes the challenges involved in meeting the required treatment volume of a reconstruction project within a fully developed and densely populated neighborhood with limited space for treatment options, such as the Central Avenues neighborhood. Therefore, the Watershed representatives will

work with the project team during final design and the permitting process to go through the steps of ensuring that stormwater treatment is maximized throughout the project area to the extents feasible, knowing the limitations of the neighborhood and space available for stormwater management. The costs for stormwater management that are shown in Appendix A is what the project team anticipates will be feasible based on preliminary site investigations and discussions with Nine Mile Creek Watershed District.

D. Sanitary Sewer

As summarized in the existing conditions section of this report discussing sanitary sewer, most of the existing system in the reconstruction area is relatively old, made of an outdated (clay) material, and in poor condition. Given these conditions, the opportunity to excavate to this utility given removal of overlying roadway pavement for street reconstruction, and the City of Hopkins policy to replace clay sewers during street projects, the existing clay gravity sanitary sewer system throughout the neighborhood is proposed to be replaced with PVC pipe or rehabilitated with a trenchless CIPP liner.

An 8-inch PVC pipe was installed underneath the alley between 9th Ave N and 10th Ave N from 2nd St N to 4th St N to service the Alice Smith and Eisenhower Elementary schools. While this sewer is made from a current and acceptable pipe material, it has several significant defects and is located in an undesirable location (narrow alley right-of-way) for maintenance or future repairs. The proposed reconstruction of 10th Ave N and its sanitary sewer main provides an opportunity to replace and relocate the existing PVC sewer pipe beneath the alley. The 8-inch PVC pipe is proposed to be extended down 4th St N from 9th Ave N and connect to the existing sewer on 10th Ave N instead of turning down the alley between 9th Ave N and 10th Ave N. The sanitary sewer main along 10th Ave N between 4th St N and 2nd St N would be upsized to at least a 10-inch PVC sewer pipe to accommodate the additional flow from the elementary schools before connecting to the larger 12-inch sewer main along 2nd St N. After this sewer main in the alley is redirected to 10th Ave N, the deficient pipe in the alley can be abandoned in place with a grout or sand material without any excavation outside of the roadway.

The clay sanitary sewer along 2nd St N and 3rd St N can be rehabilitated with a trenchless CIPP liner since there are no confirmed services that need to be replaced along these corridors and the sewer can remain its existing location.

While most of the clay sewer mains along the avenues will be excavated and replaced with 8-inch to 12-inch diameter PVC pipe, the deep 15-inch diameter clay sewer main along 15th Ave N between 1st St N and 2nd St N would be proposed for rehabilitation using a CIPP liner. While this rehabilitation method is not typically used on streets designated for reconstruction with many service laterals, the overly deep sewer main (20-feet below ground) makes open cut excavation costly and infeasible on a residential street. Not only would replacing a 20-foot-deep sanitary sewer main be expensive, but it would also be nearly impossible to maintain daily access to residents with slower progress and larger trenches. Due to the additional complexity and cost of full replacement of the sewer on this block, trenchless CIPP rehabilitation would be proposed. Existing sewer service laterals may also be lined from inside the main and/or from the right-of-way (ROW) line if found to be feasible and cost effective during the final design and bidding process. At a minimum, the sewer service tap connections at the sanitary sewer main would be lined approximately 2 feet into the service pipe from the main to ensure a secure and watertight connection.

Where gravity mains are to be excavated and replaced, new service wyes will be provided to each home. Per City policy, sanitary services which are not PVC are proposed to be replaced

with PVC pipe to the ROW line. New precast concrete manholes will be installed and will incorporate the City standard 27-inch diameter cover utilizing concealed pick-holes to minimize inflow and infiltration. The proposed sanitary sewer mainline improvements are summarized in Table 3 below and shown in Appendix B.

The exact age of the existing pipes listed in Table 3 could not be verified. Ages were reasonably estimated based on the existing pipe material and the known age of other utilities in the area.

| Table 3: Proposed Sanitary Sewer Improvements | | | | | | | | | |
|---|--|------|----------------------|------|------------------|--|--|--|--|
| Roadway | From/To | | Existing Pipe | | Proposed | | | | |
| | | Dia. | Matl. | Age | Improvements | | | | |
| 9 th Ave N | 1 st St N to 3 rd St N | 8" | VCP (Clay) | 1950 | 8" PVC | | | | |
| 10 th Ave N | 1 st St N to 2 nd St N | 8" | VCP | 1950 | 8" PVC | | | | |
| 10 th Ave N | 2 nd St N to 4 th St N | 8" | VCP | 1950 | 10" PVC | | | | |
| 11 th Ave N | 1 st St N to 2 nd St N | 15" | VCP | 1950 | 15" CIPP Liner | | | | |
| 11 th Ave N | 2 nd St N to 3 rd St N | 12" | VCP | 1950 | 12" PVC | | | | |
| 11 th Ave N | 3 rd St N to Minnetonka | 8" | VCP | 1950 | 8" PVC | | | | |
| II Ave N | Mills Rd | ٥ | VCP | 1950 | 8 PVC | | | | |
| 12 th Ave N | 1 st St N to Highway 7 | 8" | VCP | 1950 | 8" PVC | | | | |
| 13 th Ave N | Dead-End by Maetzold | 8" | VCP | 1950 | 8" PVC | | | | |
| 13 AVE N | Field to South Service Dr | 8 | | | O FVC | | | | |
| 2 nd St N | 8 th Ave N to 10 th Ave N | 10" | VCP | 1950 | 10" CIPP Liner | | | | |
| 2 nd St N | 10 th Ave N to 11 th Ave N | 12" | VCP | 1950 | 12" CIPP Liner | | | | |
| 2 nd St N | 11 th Ave N to 12 th Ave N | N/A | N/A | N/A | None/No Sewer | | | | |
| 3 rd St N | 9 th Ave N to 11 th Ave N | N/A | N/A | N/A | None/No Sewer | | | | |
| 3 rd St N | 11 th Ave N to 15 th Ave N | 8" | VCP | 1950 | 8" CIPP Liner | | | | |
| 4 th St N | 9 th Ave N to 10 th Ave N | 8" | PVC | 1970 | 8" PVC Extension | | | | |
| 4 th St N | 11 th Ave N to 12 th Ave N | N/A | N/A | N/A | None/No Sewer | | | | |
| Alley b/w | | | | | | | | | |
| 9 th Ave N & | 2 nd St N to 4 th St N | 8" | PVC | 1970 | Abandon Sewer | | | | |
| 10 th Ave N | | | | | | | | | |

E. Watermain

All existing cast iron pipe (CIP) watermain along the Avenues in the neighborhood is proposed to be replaced with new ductile iron pipe (DIP). An 8-inch pipe is proposed on all the roadways to most cost effectively achieve adequate fire flows and water distribution. Fire Hydrants will also be replaced along the new watermain, and gate valves will be added at each intersection for more efficient operations and maintenance.

The only east-west street in the project area with existing watermain is 3rd St N from 11th Ave N to 13th Ave N. This watermain has no confirmed services and is not necessary to achieve adequate fire flows and water distribution in the area. Due to the redundancy of this watermain, and to avoid additional costs from excavation and full street reconstruction on these two blocks of 3rd St N, it is recommended that this watermain along 3rd St N is abandoned in place with grout or sand material. The City's standard flushing station would be installed at the dead-end of 13th Ave N to ensure water quality in the system.

There is another east-west cast iron pipe watermain that runs along the south side of Trunk Highway 7 between 11th Ave N and 13th Ave N, mostly in the highway ditch between Minnetonka Mills Rd on the east side of 12th Ave N and South Service Dr on the west side of

12th Ave N. While this is outside the scope of the project area improvements, there was recently a break along this segment of watermain which required a closure of northbound 12th Ave N near Highway 7 to complete the necessary repairs. To avoid costly repairs and community service interruptions in the future, it is proposed that this watermain be replaced with a new 8-inch directionally drilled high density polyethylene (HDPE) pipe from the connection at 11th Ave N to the connection at 13th Ave N. This method of replacement is trenchless and will only require excavations at each end where the watermain is already proposed to be replaced on 11th Ave N and 13th Ave N, and in the middle under green space near Highway 7 and 12th Ave N to connect to the relatively new watermain installed under Highway 7 as park of the 2022 Trunk Watermain Improvements project. Due to no additional pavement replacement and no service connections on this segment of watermain, the benefits of this proposed watermain improvement will significantly outweigh the costs. The old existing watermain will be filled and abandoned in place, again requiring no additional excavation or restoration costs.

Per City policy all water service lines to single family homes are proposed to be replaced to the right-of-way with a new 1" diameter copper service line. A new curb stop valve and box will be provided on each service, approximately on the right-of-way line. Multi-family residential properties and commercial properties will receive a new 6" service line or a service line matching their existing service diameter, whichever is greater. The proposed watermain mainline improvements are summarized in Table 4 below and shown in Appendix B.

The exact age of the existing pipes listed in Table 4 could not be verified. Ages were reasonably estimated based on the existing pipe material and the known age of other utilities in the area.

| Table 4: Proposed Watermain Improvements | | | | | | | | | |
|--|---|----------------|-----------|------|----------------------|--|--|--|--|
| Roadway | From/To | Е | xisting P | ipe | Proposed | | | | |
| | | Dia. Matl. Age | | | Improvements | | | | |
| 9 th Ave N | 1 st St N to 3 rd St N | 6" | CIP | 1950 | 8" DIP | | | | |
| 10 th Ave N | 1 st St N to 4 th St N | 6" | CIP | 1950 | 8" DIP | | | | |
| 11 th Ave N | 1 st St N to Minnetonka Mills Rd | 6" | CIP | 1950 | 8" DIP | | | | |
| 12 th Ave N | 1 st St N to Highway 7 | 6" | CIP | 1950 | 8" DIP | | | | |
| 13 th Ave N | Dead-End to South Service Dr | 6" | CIP | 1950 | 8" DIP | | | | |
| 2 nd St N | 8 th Ave N to 12 th Ave N | N/A | N/A | N/A | None/No Watermain | | | | |
| 3 rd St N | 9 th Ave N to 11 th Ave N | N/A | N/A | N/A | None/No Watermain | | | | |
| 3 rd St N | 11 th Ave N to 13 th Ave N | 6" | CIP | 1950 | Abandon Watermain | | | | |
| 3 rd St N | 13 th Ave N to 15 th Ave N | N/A | N/A | N/A | None/No Watermain | | | | |
| 4 th St N | 9 th to 10 th Ave; 11 th to 12 th Ave N | N/A | N/A | N/A | None/No Watermain | | | | |
| TH 7 Service Dr | 11 th Ave N to 13 th Ave N | 6" | CIP | 1950 | 8" HDPE (Trenchless) | | | | |

F. Pedestrian Facilities

Replacement of existing concrete sidewalks is proposed on all Avenues to be fully reconstructed. This will be necessary due to the proposed street and utility construction and because the existing sidewalks are in poor condition and/or do not drain properly. The sidewalks are proposed to be constructed at 6 feet width, and the proposed turf boulevard width will vary but will be somewhat consistent and generally wider than existing since most roadways are being narrowed. The preliminary proposed typical sidewalk section consists of 4" concrete, 4" aggregate base class 5, and spot subgrade soil corrections.

The existing concrete sidewalk on 13th Ave N from 4th St N to South Service Dr will need to be removed due to the proposed street and utility construction. However, the sidewalk on both sides of this block does not connect to any existing pedestrian facilities to the north, south, east, or west. Due to the lack of existing pedestrian connectivity and lower pedestrian use, it will be considered to not replace this sidewalk and instead replace the area with additional turf (sod). The project team will reach out to the residents on this block to determine if they would prefer to replace the existing sidewalk with new concrete walk or turf to have no sidewalks along 13th Ave N. If the majority (greater than 50%) of the residents on this block respond in favor of not reinstalling the sidewalk, the proposed improvement would reflect that in the final plans with turf restoration in the place of sidewalk. Currently, the proposed preliminary improvements show the sidewalk being replaced on this block until coordination occurs with the adjacent residents. Not replacing the sidewalk would be a cost saving measure if desired by the residents/property owners on this block.

There are no sidewalks along 13th Ave N south of 4th St N, and it would not be proposed to add sidewalks along these blocks unless desired by Council and the residents/property owners due to the lack of other pedestrian facilities to connect to in the area and the relatively lower pedestrian use with 13th Ave N being a dead-end to the south of 3rd St N.

Spot sidewalk replacements are proposed along 2nd St N and 4th St N as determined by the engineer in the field for areas with poor drainage, cracked sidewalk, or settled sidewalk which could become a tripping hazard.

There are no sidewalks along 3rd St N, and it would not be proposed to add sidewalks along these blocks unless desired by Council and the adjacent residents/property owners. There are no existing sidewalks along 3rd St to the east of the proposed street improvements (9th Ave N) or to the west of the proposed street improvements (15th Ave N), and there are existing east-west sidewalks along 1st St N, 2nd St N, 4th St N, and Minnetonka Mills Rd. There is also neighborhood access to the Lake Minnetonka Regional Trail at the intersection of 3rd St N & 15th Ave N and every other Avenue within the neighborhood.

The City and project team are working with Three Rivers Park District to improve the Regional Trail crossings within the proposed improvement areas at 12th Ave N, 11th Ave N, and 10th Ave N. Possible improvements may include, but are not limited to:

- Curb bump outs at the intersection of 12th Ave N and 2nd St N to shorten the crossing distance, slow vehicular traffic, and improve stopping compliance.
 - Curb bump outs will also be considered by the project team to improve both pedestrian and vehicular safety at other intersections within the project area including 12th Ave N and 4th St N, and 10th Ave N and 4th St N.
- The proposed narrowed street widths along 10th Ave N and 11th Ave N will shorten the distance of the trail crossings mid-block and provide better sight lines.
- Improved crosswalk pavement markings and signage.
- Possible trail realignment at the street crossings if feasible within the existing public right of way.

The proposed improvements to pedestrian facilities are shown in Appendix B.

G. Driveways

All single-family residential driveways that conform with current City codes within the reconstruction project area receiving new concrete curb and gutter, will receive a new 5-

foot-wide concrete apron adjacent to the concrete curb. The new concrete aprons will be constructed accordance with City standards in terms of depth and shape. In addition to the 5-foot driveway apron, additional driveway pavement disturbed as a part of the project will be replaced in-kind to match the existing driveway with the street improvements.

Non-conforming driveway aprons may be removed and not replaced during the construction of the new curb and gutter on reconstructed streets.

Non-residential and multi-family residential properties will receive the City's standard concrete commercial driveway entrance apron. Alley entrances will also be replaced with the City's standard concrete alley entrance.

H. Lawn Irrigation Systems

There may be existing sprinkler systems encountered in construction of the project. Adjacent property owners will need to assist in locating and identifying the type of sprinkler systems that are in place prior to and during construction if these facilities are to be protected. The contractor will be required to make efforts to preserve the in-place systems during construction. Where this is found to be unfeasible, the contractor will be required to remove and replace or salvage and reinstall the existing sprinkler system.

I. Street Signing and Striping

The existing street name signs will be replaced by the contractor to update the signs to the new City standards. Regulatory signs such as stop and parking enforcement signs will be replaced to conform to retroreflectivity requirements. All intersections are proposed to keep their current traffic control layout, i.e., stop signs are not proposed to be removed or added at any of the intersections within the project area. Crash history data was evaluated within the project area and the number of crashes that have been reported in the past 5 years are relatively minimal, especially outside of 12th Ave N which is a truck route with higher traffic volumes than the rest of the project area streets.

Existing crosswalk blocks are proposed to be repainted in approximately the same locations in both the reconstruction and street maintenance areas, with the potential for additional and improved crosswalk blocks at the Regional Trail crossings. Existing centerline striping will be restriped after final paving is completed.

J. Turf and Landscaping Restoration

Boulevards will be graded as necessary to facilitate drainage from the existing yards to the streets. Turf areas disturbed by construction, either due to boulevard grading or utility service construction, will be graded to match the new street grades and restored with sod in residential yards. In parks or other areas maintained by the City, and sometimes larger commercial properties, areas will be restored with seed and mulch (hydroseed).

Landscaping within the project area will be protected where feasible. Landscaping that is within the right-of-way and/or cannot be protected will either be salvaged and reinstalled by the contractor or will be the owner's responsibility. Items including, but not limited to walls, fences, and pavers, will be salvaged and reinstalled by the contractor. The engineer will coordinate with individual homeowners on landscape impacts to items including, but not limited to plantings, decorative rock, and decorative pavers for removal and relocation by the homeowner.

K. Boulevard Trees

As with all street and utility improvements being considered by the City of Hopkins, it is a goal of this project to protect healthy boulevard trees and/or make improvements to the

urban tree canopy where feasible. Design and construction of improvements, including appropriate selection of street widths and utility main placement, are proposed to be completed in a manner to achieve the City's goals to save healthy trees. An evaluation of boulevard tree species and condition throughout the neighborhood will be completed with City Staff in consideration of the adjacent street and utility improvements to facilitate design and construction and meet these criteria.

Due to their susceptibility to the emerald ash borer, green ash trees are generally considered undesirable trees. Similarly, silver maple trees are more susceptible to storm damage than other species, create more litter because of their soft wood and weak, brittle branches, and thus are not desirable trees to Public Works staff and local residents. Silver maples are also known to have an intrusive root system that can damage sidewalks and curbs and penetrate sewer joints. Finally, American Elm are still susceptible to Dutch Elm disease. These three undesirable species, as well as other trees that are either dead or in poor health, should either be removed or otherwise not protected through the design/construction process.

An inventory of the trees located in the right of way was performed in September 2024 by the City Forester and Bolton & Menk staff. Consistent with all City of Hopkins annual street and utility improvement projects, trees that are dead or in very poor condition, and "undesirable" species in fair or poor condition, are proposed for removal and replacement. Proposed tree removals are shown on the figures in Appendix B. Some of the tree removals identified due to conflicts with utilities or street grading and may be further evaluated during final design to see if reasonable measures can be taken to preserve them. Options to preserve highly desirable trees in harm's way include small retaining walls or moving service lines around trees but these practices are not always feasible. Unfortunately, there is always the possibility that additional trees will need to be removed and replaced during the construction process that were not planned for removal during design due to various unforeseen circumstances. The project team and field representatives would communicate and coordinate tree replacement with the property owner for each of these occurrences.

This project provides an opportunity to increase the health of the neighborhood forest by replacing some of the undesirable species with trees better suited for boulevard areas. One tree is proposed to be installed per each tree removed. New 2-inch diameter trees are typically planted in replacement of those removed. The City will communicate with the property owners to replace trees as part of the project in the event tree removal is necessary. The species of trees to be planted will be a wide variety and coordinated with the City's public works staff.

Properties located adjacent to boulevard tree removals will be contacted and allowed to provide input on their desire for a particular tree species to be planted based on the list provided.

VI. Neighborhood Meetings and Public Engagement

A neighborhood meeting occurred on October 2, 2024 with residents and property owners that are affected by the improvements in the reconstruction area. The City Engineer and Bolton & Menk Project Manager presented the scope of the project with a discussion of existing and proposed street and utility conditions, preliminary assessment policies, other City policies, and project schedule. Additional information on the neighborhood meeting is documented in Appendix D of this report. There were approximately 40 property owners/residents who participated in the event in-person at City Hall. Some of the most

common questions or comments received from residents at the neighborhood meeting are summarized in Appendix D.

A second neighborhood meeting has been scheduled for November 6, 2024 to review preliminary special assessments and proposed improvements. This meeting will be held inperson again at City Hall and the presentation will also be broadcasted and recorded over Zoom online. The materials from the first meeting and the recorded presentation of the second meeting will be available on the project website (www.HopkinsAvenuesProject.com) for residents to view at their convenience.

Residents within the reconstruction project area were also mailed questionnaires in September 2024 as shown in Appendix D. The questionnaire focused on drainage issues, utilities, pedestrian facilities, landscaping, and other concerns the residents may have. Seventy-three (73) questionnaires, which is roughly 25% of the affected properties, were returned with comments. The most common questionnaire responses related to:

- 1. Specific drainage problems in the roadway and on the sidewalk
- 2. Desire for sidewalk and trail crossing improvements
- 3. Speeding and intersection safety
- 4. Sewer or water service issues
- 5. Concerns about existing landscaping and trees in the boulevard

A summary of the responses to the resident questionnaire are provided in the Table below.

| Table 5: | Resident Qu | estionnaire Re | esponse Summary |
|---------------------------|-------------|----------------|----------------------|
| | Yes | No or N/A | Total # of Responses |
| Drainage Issue | 27 | 46 | 73 |
| Sanitary Issue | 23 | 50 | 73 |
| Water Issue | 17 | 56 | 73 |
| Pedestrian Facility Issue | 35 | 38 | 73 |
| Irrigation | 13 | 60 | 73 |
| Invisible Fence | 0 | 73 | 73 |
| Tree Concerns | 41 | 32 | 73 |
| Landscaping Concerns | 14 | 59 | 42 |

VII. Estimated Costs and Funding

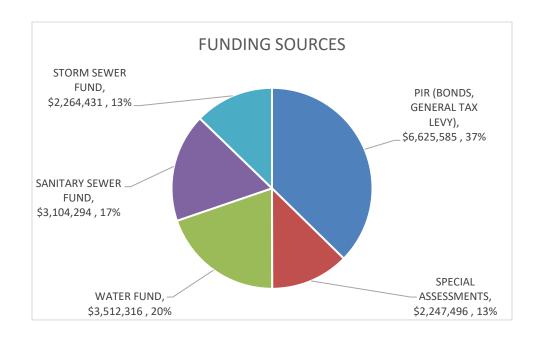
Estimated construction costs presented in this report are based on anticipated 2025 unit bid prices for a two-year construction contract and include a 15 percent contingency factor. Overhead costs, estimated at 18 percent, include legal, engineering, administrative and fiscal costs. Final costs and any assessments would be determined by using low-bid construction costs of the proposed work.

Proposed construction costs for the Central Avenues Improvements Phase 2 (including curb and gutter, bituminous street, pedestrian facilities, storm sewer, sanitary sewer, water main, and turf restoration) are itemized in Appendix A and are summarized in Table 6 below.

These cost estimates are based upon public construction cost information. Because the consultant has no control over the cost of labor, materials, competitive bidding process, weather conditions and other factors affecting the cost of construction, all cost estimates are opinions for general information of the client and no warranty or guarantee as to the accuracy of construction cost estimates is made. It is recommended that costs for project financing should be based upon actual, competitive bid prices with reasonable contingencies.

| Table 6: Estimated Cost of Proposed Central Avenues Phase 2 I | mprovements | | |
|---|--------------|--|--|
| Proposed Street Improvements | \$5,254,000 | | |
| Proposed Pedestrian Facility Improvements | \$1,285,000 | | |
| Proposed Sanitary Sewer Improvements | \$2,288,000 | | |
| Proposed Watermain Improvements | \$2,588,000 | | |
| Proposed Storm Sewer Improvements | \$1,669,000 | | |
| Construction Cost Subtotal | \$13,083,000 | | |
| Contingencies (15%) | \$1,963,000 | | |
| Construction Cost with Contingencies (15%) | \$15,046,000 | | |
| Engineering & Administration (18%) | \$2,708,000 | | |
| Total Estimated Project Costs | \$17,754,000 | | |

The improvements would be funded using the following sources:



VIII. Special Assessments

Street improvements throughout the reconstruction project area (9th Ave N, 10th Ave N, 11th Ave N, 12th Ave N, 13th Ave N, 3rd St N from 9th Ave N to 11th Ave N, and 4th St N) will be assessed to adjacent and benefitting properties according to the City of Hopkins' assessment policy. Street improvement work includes pavement removals, grading, subgrade correction, aggregate base, driveways, pavement construction, and restoration. There are no assessments for maintenance work, including milling or reclaiming and street resurfacing, per City policy.

According to the City's assessment policy, residential street improvement costs are assessed to the benefitting properties. In summary, assessments to benefitting properties are determined based on the following criteria:

- Properties are assessed based on 70% of the actual street improvement costs. This is referred to as a "Street Assessment".
- North/South Avenue improvements are typically assessed to properties with direct frontage based on a front foot basis (length) along the Avenue.
- East/West Street improvements are typically assessed to properties located within one block north/south of the Street on a unit basis (per each property).
- "Street Assessments" to any individual property are capped at front foot rate increase annually by 3% over the prior year's amount. An assessment cap for residential properties of \$109.32 per front foot has been established by adding 3% to the 2024 assessment cap according to City policy. This assumes that the project will go out for bids and a construction contract will be awarded in 2025 to begin construction that same year. If construction does not begin until 2026, the assessment cap would be increased by another 3% which would amount to \$112.60 per front foot. The same assessment cap would be applied to all residential properties in the project area at the time of final assessment roll adoption by Council, regardless of which year their street is reconstructed.
- The assessment cap is applied to residential properties in the project area and is not applicable to commercial properties which will receive a benefit appraisal in preparation of the assessment roll. For properties receiving a benefit appraisal, the lesser of the 'per policy' calculation and the benefit amount per the appraisal will be used. The benefit appraisals for these properties are expected to be available in December 2024, which will be after the Public Improvement Hearing but prior to the Public Assessment Hearing. For this report, the 'per policy' calculation was used to determine the assessment amount for these properties, but this amount could be reduced if the benefit appraisal amount is lower.
- Several properties in the project area were previously assessed during the 2012 Street & Utility Improvements project for the reconstruction of Minnetonka Mills Rd, 4th St N from 10th Ave N to 11th Ave N, and 3rd St N from 8th Ave N to 9th Ave N, or during the 2011 Street & Utility Improvements for the reconstruction of South Service Dr and 4th St N west of 12th Ave N. These previous assessment amounts were considered when calculating preliminary assessments for this project, and properties that were assessed in 2011 or 2012 will either be assessed at a lower amount or will not be assessed for the 2024 project depending on what they were

- assessed for in 2011 or 2012 for the improvements at that time. This same policy was applied to several of the properties in the 2024 Central Avenues project because they were adjacent to or part of the 2012 Street & Utility project and assessed in 2012 for improvements to those streets.
- Several properties in the project area are adjacent to the Lake Minnetonka Regional
 Trail's Hennepin County Regional Railroad Authority right of away, resulting in
 irregularly shaped (non-rectangular) parcels. These irregularly shaped parcels have
 either larger or smaller frontages than what they would have if they were
 rectangularly shaped parcels. To address this, the front footage for these parcels
 was calculated by dividing the area of the parcel by the depth of the parcel, which
 was then used in the assessment calculation per City policy.
- Utility (sanitary sewer, storm sewer, water) main improvements are 100% paid by the respective utility funds. No assessment for utility mains is proposed and their costs do not contribute to either the "Street Assessments" or "Utility Assessments".
- Utility service lines are owned by the individual property per City Code. As a result, the City assesses for the cost of the individual service line replacements. This is referred to as a "Utility Assessment". The City participates in a share of these costs for residential properties because the replacement is mandatory where mains are reconstructed, and therefore properties are assessed for only 50% of the cost of the service replacement based on actual bid prices received. Commercial properties are assessed for 100% of the cost of the service replacement.
- The estimated cost of the water service replacement from the main to property line is \$2,850. With the proposed 50/50 "Utility Assessment" split, \$1,425 will be assessed to each property where water services are replaced. The estimated cost of the sewer service replacement from the main to the property line is \$2,475. With the proposed 50/50 "Utility Assessment" split, \$1,237.50 will be assessed to each property where sewer services are replaced. Thus, a property proposed to receive both a new water service and sewer service would have a proposed "Utility Assessment" of \$2,662.50, which is an estimated amount until bids prices are known.

In the case that sanitary sewer services are made of Orangeburg, or are in disrepair, replacement or lining of the entire line will also be required from the property line to the house. On past projects, the property owner has been given one year to address the necessary repairs and the City will provide contact information for contractors that have performed this work within the City.

A preliminary assessment roll is included in Appendix C of this report. Total estimated assessments are \$2,247,495.67.

IX. Right-of-Way/Easements/Permits

The majority of the proposed improvements will be limited to the existing street ROW along all corridors. Temporary construction easements may be needed for work outside the street ROW such as driveway apron replacement, grading and turf restoration, but is not anticipated. It is also

not anticipated that any permanent easements would be required for the proposed improvements. Therefore, there are no anticipated costs for easement acquisition.

Permits would be required from the Minnesota Pollution Control Agency for grading (National Pollutant Discharge Elimination System permit), Minnesota Department of Health for Water Main Replacement, Nine Mile Creek Watershed District for Erosion Control and Stormwater Management, and MnDOT for work within trunk highway right of way.

X. Project Schedule

The following tentative schedule is proposed and assumes construction will start in 2025. If construction doesn't start until 2026, the following schedule would need to be modified. Council Set Public Hearing Date / Present Feasibility Report October 15, 2024 Present Feasibility Report / Conduct Public Hearing / Order Final Plans/Specifications November 12, 2024 Preparation of Final Plans & Specifications November 13, 2024 – Late January 2025 Approve Final Plans & Specifications / Authorize Advertisement for BidsLate January/Early February 2025 Bid OpeningLate February/Early March 2025 Neighborhood Meeting 3.....Late March/Early April 2025 Council Accepts Bids / Conduct Public Assessment Hearing / Adopt Assessment Roll / Award BidApril 2025 Finish Punch List and Project CloseoutSpring 2027

XI. Feasibility and Recommendation

From an engineering standpoint, this project is feasible, cost effective, and necessary and can best be accomplished by letting competitive bids for the work. It is recommended that the work be done under one contract over two construction seasons, for all project areas, to complete the work in an orderly and efficient manner. The City, its financial consultant, and the persons assessed will have to determine the economic feasibility of the proposed improvements.

Appendix A: Preliminary Cost Estimates

CENTRAL AVENUES IMPROVEMENTS PHASE 2

ESTIMATED UNIT PRICES FOR 2025 CONSTRUCTION START

CITY OF HOPKINS, MN

CITY PROJECT NO. 2024-10





| | | | | ESTIMATED COSTS | | | | | TOTAL | |
|----------|---|----------|--------------|------------------------------|----------------|----------------|-------------|--------------|-------------------|----------------|
| ITEM NO. | ITEM | UNIT | UNIT PRICE | PEDESTRIAN FACILITY TOTAL | STREET TOTAL | SANITARY TOTAL | STORM TOTAL | WATER TOTAL | TOTAL QUANTITY | TOTAL COST |
| 1 | MOBILIZATION | LUMP SUM | \$750,000.00 | \$45,000.00 | \$330,000.00 | \$150,000.00 | \$75,000.00 | \$150,000.00 | 1.00 | \$750,000.00 |
| 2 | CLEARING | TREE | \$450.00 | , , | \$70,650.00 | | , , | · · · · | 157 | \$70,650.00 |
| 3 | GRUBBING | TREE | \$250.00 | | \$41,000.00 | | | | 164 | \$41,000.00 |
| 4 | DECIDUOUS TREE 2" CAL B&B | EACH | \$550.00 | | \$86,350.00 | | | | 157 | \$86,350.00 |
| 5 | REMOVE SIGN POST | EACH | \$75.00 | | \$6,750.00 | | | | 90 | \$6,750.00 |
| 6 | REMOVE SIGN PANEL | EACH | \$50.00 | | \$4,500.00 | | | | 90 | \$4,500.00 |
| 7 | REMOVE CURB AND GUTTER | LIN FT | \$5.00 | | \$102,350.00 | | | | 20470 | \$102,350.00 |
| 8 | REMOVE CURB AND GUTTER (SPOT) | LIN FT | \$10.00 | | \$12,270.00 | | | | 1227 | \$12,270.00 |
| 9 | REMOVE BITUMINOUS DRIVEWAY PAVEMENT | SQ YD | \$9.00 | | \$3,285.00 | | | | 365 | \$3,285.00 |
| 10 | REMOVE BITUMINOUS STREET PAVEMENT | SQ YD | \$4.50 | | \$182,983.50 | | | | 40663 | \$182,983.50 |
| 11 | REMOVE CONCRETE WALK | SQ FT | \$1.25 | \$129,342.50 | | | | | 103474 | \$129,342.50 |
| 12 | REMOVE CONCRETE WALK (SPOT) | SQ FT | \$3.00 | \$8,295.00 | | | | | 2765 | \$8,295.00 |
| 13 | REMOVE CONCRETE STEP | EACH | \$110.00 | \$17,380.00 | | | | | 158 | \$17,380.00 |
| 14 | REMOVE CONCRETE ALLEY/DRIVEWAY PAVEMENT | SQ YD | \$12.00 | | \$11,064.00 | | | | 922 | \$11,064.00 |
| 15 | SALVAGE & REINSTALL SIGN PANEL | EACH | \$225.00 | | \$4,050.00 | | | | 18 | \$4,050.00 |
| 16 | SALVAGE & REINSTALL PAVERS | SQ FT | \$25.00 | \$10,125.00 | | | | | 405 | \$10,125.00 |
| 17 | REMOVE RAILING | LIN FT | \$35.00 | \$1,995.00 | | | | | 57 | \$1,995.00 |
| 18 | SAWING CONCRETE PAVEMENT (FULL DEPTH) | LIN FT | \$5.50 | \$9,234.50 | | | | | 1679 | \$9,234.50 |
| 19 | SAWING BITUMINOUS PAVEMENT (FULL DEPTH) | LIN FT | \$3.50 | | \$5,470.50 | | | | 1563 | \$5,470.50 |
| 20 | SALVAGE & REINSTALL FENCE | LIN FT | \$120.00 | \$33,000.00 | | | | | 275 | \$33,000.00 |
| 21 | REMOVE RETAINING WALL | LIN FT | \$22.00 | \$20,900.00 | | | | | 950 | \$20,900.00 |
| 22 | SALVAGE & REINSTALL BLOCK RETAINING WALL | LIN FT | \$100.00 | \$15,000.00 | | | | | 150 | \$15,000.00 |
| 23 | REMOVE HYDRANT | EACH | \$500.00 | | | | | \$10,000.00 | 20 | \$10,000.00 |
| 24 | REMOVE WATERMAIN | LIN FT | \$6.00 | | | | | \$57,450.00 | 9575 | \$57,450.00 |
| 25 | ABANDON WATERMAIN | LIN FT | \$12.00 | | | | | \$8,100.00 | 675 | \$8,100.00 |
| 26 | REMOVE DRAINAGE STRUCTURE (STORM) | EACH | \$600.00 | | | | \$46,800.00 | | 78 | \$46,800.00 |
| 27 | REMOVE STORM SEWER PIPE | LIN FT | \$16.00 | | | | \$49,488.00 | | 3093 | \$49,488.00 |
| 28 | REMOVE SANITARY SEWER PIPE | LIN FT | \$5.00 | | | \$40,585.00 | | | 8117 | \$40,585.00 |
| 29 | ABANDON SANITARY SEWER | LIN FT | \$12.00 | | | \$17,460.00 | | | 1455 | \$17,460.00 |
| 30 | REMOVE SANITARY MANHOLE | EACH | \$725.00 | | | \$26,825.00 | | | 37 | \$26,825.00 |
| 31 | EXPLORATORY EXCAVATION | HOUR | \$1,000.00 | | | \$8,000.00 | \$8,000.00 | \$8,000.00 | 24 | \$24,000.00 |
| 32 | COMMON EXCAVATION | CU YD | \$30.00 | | \$1,063,920.00 | | | | 35464 | \$1,063,920.00 |
| 33 | SUBGRADE EXCAVATION | CU YD | \$30.00 | | \$45,960.00 | | | | 1532 | \$45,960.00 |
| 34 | RECLAIM BITUMINOUS SURFACE (IN PLACE) | SQ YD | \$3.50 | | \$11,462.50 | | | | 3275 | \$11,462.50 |
| 35 | SUBGRADE PREPARATION | SQ YD | \$3.00 | | \$9,825.00 | | | | 3275 | \$9,825.00 |
| 36 | GEOTEXTILE FABRIC TYPE V | SQ YD | \$2.00 | | \$85,108.00 | | | | 42554 | \$85,108.00 |
| 37 | STABILIZING AGGREGATE | CU YD | \$45.00 | | \$63,990.00 | | | | 1422 | \$63,990.00 |
| 38 | SELECT GRANULAR BORROW | TON | \$18.00 | | \$465,426.00 | | | | 25857 | \$465,426.00 |
| 39 | CLASS 5 AGGREGATE BASE | TON | \$20.00 | | \$350,520.00 | | | | 17526 | \$350,520.00 |
| 40 | CLASS 2 AGGREGATE SURFACING (GRAVEL DRIVEWAY) | TON | \$60.00 | | \$1,020.00 | | | | 17 | \$1,020.00 |

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CENTRAL AVENUES IMPROVEMENTS PHASE 2

ESTIMATED UNIT PRICES FOR 2025 CONSTRUCTION START

CITY OF HOPKINS, MN

CITY PROJECT NO. 2024-10





| | | | | ESTIMATED COSTS | | | | | TOTAL | |
|----------|---|--------|-------------|------------------------------|--------------|----------------|--------------|-------------|-------------------|--------------|
| ITEM NO. | ITEM | UNIT | UNIT PRICE | PEDESTRIAN FACILITY TOTAL | STREET TOTAL | SANITARY TOTAL | STORM TOTAL | WATER TOTAL | TOTAL QUANTITY | TOTAL COST |
| 41 | BITUMINOUS WEARING COURSE (SPWEA240C) | TON | \$95.00 | | \$352,830.00 | | | | 3714 | \$352,830.00 |
| 42 | BITUMINOUS -NON-WEARING COURSE (SPNWB230C) | TON | \$90.00 | | \$295,560.00 | | | | 3284 | \$295,560.00 |
| 43 | BITUMINOUS WEARING COURSE (SPWEA340C) | TON | \$100.00 | | \$113,200.00 | | | | 1132 | \$113,200.00 |
| 44 | BITUMINOUS -NON-WEARING COURSE (SPNWB330C) | TON | \$95.00 | | \$161,310.00 | | | | 1698 | \$161,310.00 |
| 45 | BITUMINOUS MATERIAL FOR TACK COAT | GAL | \$3.50 | | \$8,547.00 | | | | 2442 | \$8,547.00 |
| 46 | 2" BITUMINOUS STREET PATCH | SQ YD | \$30.00 | | \$18,990.00 | | | | 633 | \$18,990.00 |
| 47 | MILL BITUMINOUS SURFACE (2") | SQ YD | \$3.25 | | \$11,537.50 | | | | 3550 | \$11,537.50 |
| 48 | 3" BITUMINOUS DRIVEWAY | SQ YD | \$55.00 | | \$9,020.00 | | | | 164 | \$9,020.00 |
| 49 | JOINT ADHESIVE (MASTIC) | LIN FT | \$0.75 | | \$15,560.25 | | | | 20747 | \$15,560.25 |
| 50 | MODULAR BLOCK RETAINING WALL | SQ FT | \$55.00 | | \$82,500.00 | | | | 1500 | \$82,500.00 |
| 51 | TIMBER RETAINING WALL | LIN FT | \$120.00 | | \$42,000.00 | | | | 350 | \$42,000.00 |
| 52 | 6" PERF PVC UNDERDRAIN | LIN FT | \$22.50 | | | | \$234,765.00 | | 10434 | \$234,765.00 |
| 53 | 6" PERF PVC UNDERDRAIN CLEANOUT | EACH | \$375.00 | | | | \$11,250.00 | | 30 | \$11,250.00 |
| 54 | 15" RC STORM PIPE | LIN FT | \$72.00 | | | | \$251,136.00 | | 3488 | \$251,136.00 |
| 55 | 18" RC STORM PIPE | LIN FT | \$85.00 | | | | \$24,820.00 | | 292 | \$24,820.00 |
| 56 | 24" RC STORM PIPE | LIN FT | \$110.00 | | | | \$31,350.00 | | 285 | \$31,350.00 |
| 57 | 27" RC STORM PIPE | LIN FT | \$130.00 | | | | \$5,460.00 | | 42 | \$5,460.00 |
| 58 | STORM MANHOLE (48-4020) | EACH | \$3,000.00 | | | | \$27,000.00 | | 9 | \$27,000.00 |
| 59 | STORM MANHOLE (60-4020) | EACH | \$6,000.00 | | | | \$18,000.00 | | 3 | \$18,000.00 |
| 60 | STORM MANHOLE (72-4020) | EACH | \$8,000.00 | | | | \$32,000.00 | | 4 | \$32,000.00 |
| 61 | STORM MANHOLE (84-4022) | EACH | \$10,000.00 | | | | \$30,000.00 | | 3 | \$30,000.00 |
| 62 | STORM CATCH BASIN | EACH | \$2,250.00 | | | | \$105,750.00 | | 47 | \$105,750.00 |
| 63 | SAFL BAFFLE | SQ FT | \$530.00 | | | | \$10,600.00 | | 20 | \$10,600.00 |
| 64 | INSTALL CASTING (R-3067)(STORM) | EACH | \$1,000.00 | | | | \$69,000.00 | | 69 | \$69,000.00 |
| 65 | INSTALL CASTING (R-3067-C)(STORM) | EACH | \$1,050.00 | | | | \$6,300.00 | | 6 | \$6,300.00 |
| 66 | INSTALL CASTING (R-1733)(STORM) | EACH | \$1,200.00 | | | | \$24,000.00 | | 20 | \$24,000.00 |
| 67 | ADJUST FRAME & RING CASTINGS (STORM) | EACH | \$875.00 | | | | \$9,625.00 | | 11 | \$9,625.00 |
| 68 | CONNECT TO EXISTING STORM PIPE | EACH | \$1,600.00 | | | | \$44,800.00 | | 28 | \$44,800.00 |
| 69 | CONNECT TO EXISTING STORM STRUCTURE | EACH | \$2,100.00 | | | | \$37,800.00 | | 18 | \$37,800.00 |
| | STORMWATER MANAGEMENT - INFILTRATION BASINS | EACH | \$50,000.00 | | | | \$50,000.00 | | 1 | \$50,000.00 |
| | 8" PVC SDR 35 SANITARY SEWER PIPE | LIN FT | \$65.00 | | | \$422,565.00 | | | 6501 | \$422,565.00 |
| 72 | 10" PVC SDR 35 SANITARY SEWER PIPE | LIN FT | \$75.00 | | | \$97,650.00 | | | 1302 | \$97,650.00 |
| 73 | 12" PVC SDR 35 SANITARY SEWER PIPE | LIN FT | \$85.00 | | | \$55,250.00 | | | 650 | \$55,250.00 |
| 74 | COARSE AGGREGATE BEDDING (TYPE B) | LIN FT | \$10.00 | | | \$13,500.00 | | | 1350 | \$13,500.00 |
| | 8" CIPP LINING | LIN FT | \$55.00 | | | \$71,555.00 | | | 1301 | \$71,555.00 |
| | 10" CIPP LINING | LIN FT | \$65.00 | | | \$43,550.00 | | | 670 | \$43,550.00 |
| 77 | 12" CIPP LINING | LIN FT | \$75.00 | | | \$24,150.00 | | | 322 | \$24,150.00 |
| 78 | 15" CIPP LINING | LIN FT | \$90.00 | | | \$59,850.00 | | | 665 | \$59,850.00 |
| 79 | CIPP LATERAL LINING | LIN FT | \$25.00 | | | \$5,400.00 | | | 216 | \$5,400.00 |
| | CIPP TAP LINER | EACH | \$5,000.00 | | | \$90,000.00 | | | 18 | \$90,000.00 |

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CENTRAL AVENUES IMPROVEMENTS PHASE 2

ESTIMATED UNIT PRICES FOR 2025 CONSTRUCTION START

CITY OF HOPKINS, MN

CITY PROJECT NO. 2024-10





| | . ITEM | UNIT | UNIT PRICE | ESTIMATED COSTS | | | | | TOTAL | |
|----------|---|--------|------------|------------------------------|--------------|----------------|--------------|--------------|-------------------|--------------|
| ITEM NO. | | | | PEDESTRIAN FACILITY TOTAL | STREET TOTAL | SANITARY TOTAL | STORM TOTAL | WATER TOTAL | TOTAL QUANTITY | TOTAL COST |
| 81 | SEAL SANITARY MANHOLE | EACH | \$4,500.00 | | | \$27,000.00 | | | 6 | \$27,000.00 |
| 82 | TRIM PROTRUDING TAP | EACH | \$550.00 | | | \$2,200.00 | | | 4 | \$2,200.00 |
| 83 | 6" PVC SDR 26 SANITARY SEWER SERVICE PIPE | LIN FT | \$45.00 | | | \$396,675.00 | | | 8815 | \$396,675.00 |
| 84 | 8" X 6" SDR 26 PVC SERVICE WYE | EACH | \$675.00 | | | \$141,750.00 | | | 210 | \$141,750.00 |
| 85 | 10" X 6" SDR 26 PVC SERVICE WYE | EACH | \$750.00 | | | \$26,250.00 | | | 35 | \$26,250.00 |
| 86 | 12" X 6" SDR 26 PVC SERVICE WYE | EACH | \$850.00 | | | \$17,850.00 | | | 21 | \$17,850.00 |
| 87 | INSTALL CASTING (R-1733)(SANITARY) | EACH | \$1,250.00 | | | \$41,250.00 | | | 33 | \$41,250.00 |
| 88 | SANITARY MANHOLE | EACH | \$6,000.00 | | | \$240,000.00 | | | 40 | \$240,000.00 |
| 89 | RECONNECT SANITARY SEWER SERVICE | EACH | \$450.00 | | | \$127,800.00 | | | 284 | \$127,800.00 |
| 90 | SANITARY SERVICE REPAIR | EACH | \$3,000.00 | | | \$36,000.00 | | | 12 | \$36,000.00 |
| 91 | CONNECT TO EXISTING SANITARY SEWER PIPE | EACH | \$3,500.00 | | | \$45,500.00 | | | 13 | \$45,500.00 |
| 92 | CONNECT TO EXISTING SANITARY MANHOLE | EACH | \$4,500.00 | | | \$9,000.00 | | | 2 | \$9,000.00 |
| 93 | HYDRANT | EACH | \$7,500.00 | | | | | \$150,000.00 | 20 | \$150,000.00 |
| 94 | DUCTILE IRON FITTINGS | POUND | \$15.00 | | | | | \$34,800.00 | 2320 | \$34,800.00 |
| 95 | 6" GATE VALVE & BOX | EACH | \$2,750.00 | | | | | \$55,000.00 | 20 | \$55,000.00 |
| 96 | 8" GATE VALVE & BOX | EACH | \$3,750.00 | | | | | \$172,500.00 | 46 | \$172,500.00 |
| 97 | 6" DIP WATERMAIN | LIN FT | \$80.00 | | | | | \$20,000.00 | 250 | \$20,000.00 |
| 98 | 8" DIP WATERMAIN | LIN FT | \$85.00 | | | | | \$792,625.00 | 9325 | \$792,625.00 |
| 99 | 1" TYPE K COPPER SERVICE PIPE | LIN FT | \$45.00 | | | | | \$385,920.00 | 8576 | \$385,920.00 |
| 100 | 1" CURB STOP & BOX | EACH | \$650.00 | | | | | \$179,400.00 | 276 | \$179,400.00 |
| 101 | 1" CORPORATION STOP | EACH | \$425.00 | | | | | \$117,300.00 | 276 | \$117,300.00 |
| 102 | INSTALL FLUSHING STATION | EACH | \$5,000.00 | | | | | \$5,000.00 | 1 | \$5,000.00 |
| 103 | INSTALL SAMPLING STATION | EACH | \$5,000.00 | | | | | \$5,000.00 | 1 | \$5,000.00 |
| 104 | GROUNDING ANODE | EACH | \$150.00 | | | | | \$43,950.00 | 293 | \$43,950.00 |
| 105 | TRACER WIRE ACCESS BOX (NON ROADWAY) | EACH | \$150.00 | | | | | \$41,400.00 | 276 | \$41,400.00 |
| 106 | TRACER WIRE TEST STATION (HYDRANT) | EACH | \$175.00 | | | | | \$1,050.00 | 6 | \$1,050.00 |
| 107 | HYDRANT EXTENSION | LIN FT | \$1,800.00 | | | | | \$7,200.00 | 4 | \$7,200.00 |
| 108 | RECONNECT WATER SERVICE | EACH | \$425.00 | | | | | \$117,300.00 | 276 | \$117,300.00 |
| 109 | CONNECT TO EXISTING WATERMAIN | EACH | \$2,500.00 | | | | | \$27,500.00 | 11 | \$27,500.00 |
| 110 | 4" POLYSTYRENE INSULATION | SQ YD | \$50.00 | | | | | \$6,000.00 | 120 | \$6,000.00 |
| 111 | FORD TYPE A-1 CURB BOX COVER | EACH | \$300.00 | | | | | \$4,800.00 | 16 | \$4,800.00 |
| 112 | TEMPORARY WATER SERVICE | EACH | \$500.00 | | | | | \$138,000.00 | 276 | \$138,000.00 |
| 113 | 4" CONCRETE WALK | SQ FT | \$7.25 | \$763,512.00 | | | | | 105312 | \$763,512.00 |
| 114 | 4" CONCRETE WALK (SPOT) | SQ FT | \$10.50 | \$18,532.50 | | | | | 1765 | \$18,532.50 |
| | CONCRETE STEP | EACH | \$320.00 | \$50,560.00 | | | | | 158 | \$50,560.00 |
| | CONCRETE CURB & GUTTER DESIGN B618 | LIN FT | \$20.00 | | | | \$417,260.00 | | 20863 | \$417,260.00 |
| 117 | CONCRETE CURB & GUTTER DESIGN B618 (SPOT) | LIN FT | \$37.50 | | \$33,112.50 | | | | 883 | \$33,112.50 |
| | 6" CONCRETE WALKS (PED RAMPS) | SQ YD | \$140.00 | \$73,360.00 | | | | | 524 | \$73,360.00 |
| | 6" CONCRETE DRIVEWAY | SQ YD | \$90.00 | | \$67,320.00 | | | | 748 | \$67,320.00 |
| | 8" CONCRETE DRIVEWAY/ALLEY | SQ YD | \$115.00 | | \$113,965.00 | | | | 991 | \$113,965.00 |

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CENTRAL AVENUES IMPROVEMENTS PHASE 2

ESTIMATED UNIT PRICES FOR 2025 CONSTRUCTION START

CITY OF HOPKINS, MN

CITY PROJECT NO. 2024-10



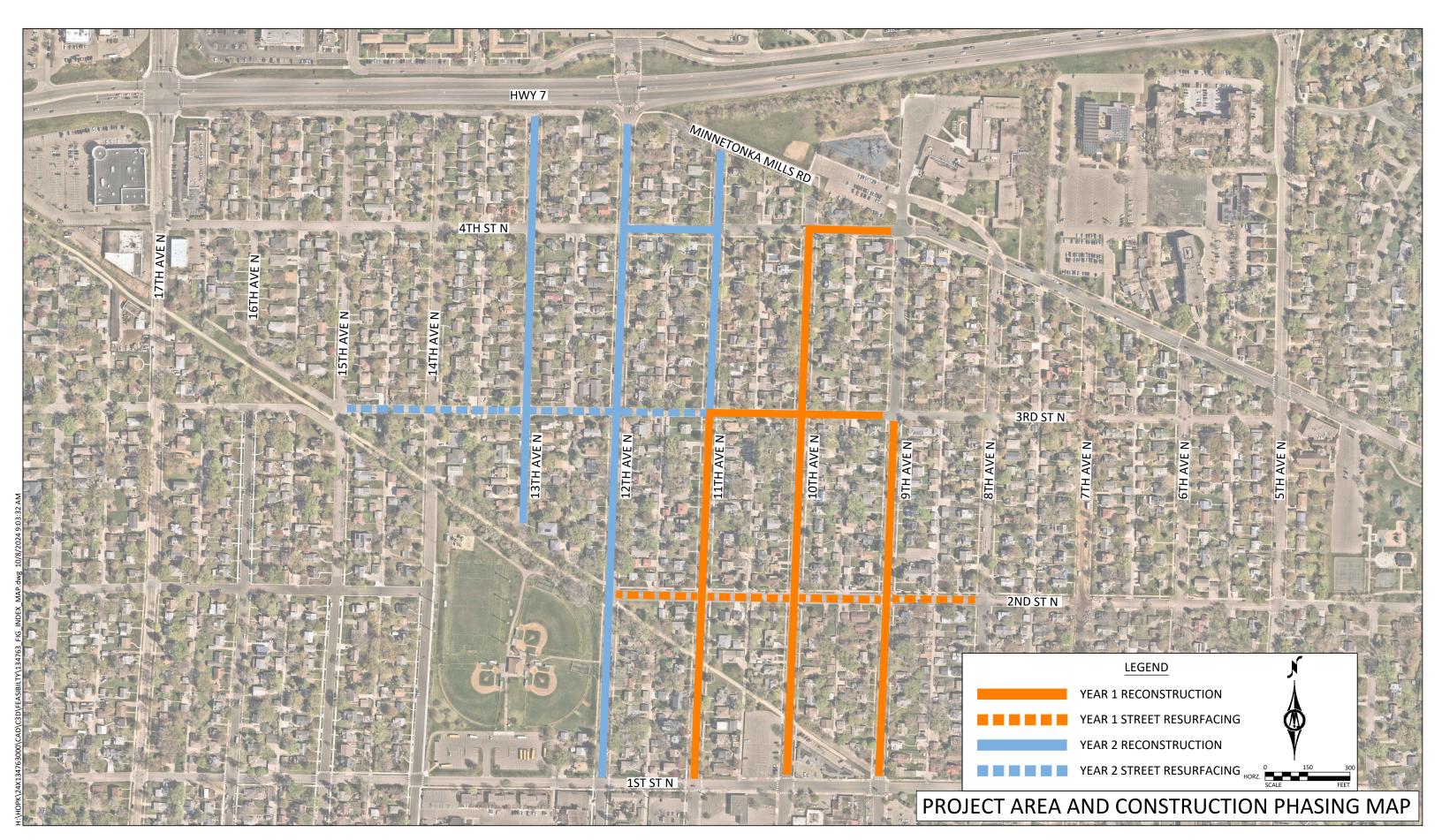


| | ITEM | UNIT | UNIT PRICE | ESTIMATED COSTS | | | | | | |
|--------------------------------------|--|----------|----------------|------------------------------|-----------------|-----------------|-----------------|-----------------|-------------------|------------------|
| ITEM NO. | | | | PEDESTRIAN FACILITY TOTAL | STREET TOTAL | SANITARY TOTAL | STORM TOTAL | WATER TOTAL | TOTAL QUANTITY | TOTAL COST |
| 121 | TRUNCATED DOMES | SQ FT | \$60.00 | \$56,880.00 | | | | | 948 | \$56,880.00 |
| 122 | TRAFFIC CONTROL | LUMP SUM | \$100,000.00 | \$6,000.00 | \$44,000.00 | \$20,000.00 | \$10,000.00 | \$20,000.00 | 1.00 | \$100,000.00 |
| 123 | SIGN POST U CHANNEL | EACH | \$160.00 | | \$12,960.00 | | | | 81 | \$12,960.00 |
| 124 | SIGN POST W/ FOUNDATION | EACH | \$450.00 | | \$4,050.00 | | | | 9 | \$4,050.00 |
| 125 | SIGN PANELS TYPE C | SQ FT | \$35.00 | | \$2,520.00 | | | | 72 | \$2,520.00 |
| 126 | SIGN PANELS TYPE D | SQ FT | \$45.00 | | \$810.00 | | | | 18 | \$810.00 |
| 127 | STREET SWEEPER WITH OPERATOR | HOUR | \$175.00 | | \$9,625.00 | | | | 55 | \$9,625.00 |
| 128 | LIGHT FOUNDATION - DESIGN E MODIFIED | EACH | \$1,500.00 | | \$4,500.00 | | | | 3 | \$4,500.00 |
| 129 | INSTALL LIGHT POLE | EACH | \$1,500.00 | | \$4,500.00 | | | | 3 | \$4,500.00 |
| 130 | LED LUMINAIRE | EACH | \$1,500.00 | | \$4,500.00 | | | | 3 | \$4,500.00 |
| 131 | STABILIZED CONSTRUCTION EXIT | EACH | \$2,000.00 | | \$30,000.00 | | | | 15 | \$30,000.00 |
| 132 | STORM DRAIN INLET PROTECTION | EACH | \$250.00 | | | | \$23,500.00 | | 94 | \$23,500.00 |
| 133 | TOPSOIL BORROW (SPECIAL) | CU YD | \$40.00 | | \$284,320.00 | | | | 7108 | \$284,320.00 |
| 134 | HYDROSEEDING | SQ YD | \$4.00 | | \$3,600.00 | | | | 900 | \$3,600.00 |
| 135 | SODDING, TYPE LAWN | SQ YD | \$11.00 | | \$459,800.00 | | | | 41800 | \$459,800.00 |
| 136 | SILT FENCE | LIN FT | \$4.50 | | \$4,050.00 | | | | 900 | \$4,050.00 |
| 137 | BIOROLL | LIN FT | \$4.00 | | \$3,600.00 | | | | 900 | \$3,600.00 |
| 138 | FABRICATED RAILING | LIN FT | \$300.00 | \$17,100.00 | | | | | 57 | \$17,100.00 |
| 139 | LANDSCAPE ALLOWANCE | LUMP SUM | \$150,000.00 | \$9,000.00 | \$66,000.00 | \$30,000.00 | \$15,000.00 | \$30,000.00 | 1.00 | \$150,000.00 |
| 140 | 4" SKIP YELLOW STRIPING - MULTI COMPONENT LIQUID | LIN FT | \$1.50 | | \$3,135.00 | | | | 2090 | \$3,135.00 |
| 141 | 24" SOLID WHITE STOP BAR - THERMOPLASTIC | LIN FT | \$27.50 | | \$4,097.50 | | | | 149 | \$4,097.50 |
| 142 | CROSSWALK WHITE - THERMOPLASTIC | SQ FT | \$13.50 | | \$24,057.00 | | | | 1782 | \$24,057.00 |
| SUBTOTAL | | | \$1,285,216.50 | \$ 5,253,531.25 | \$ 2,287,615.00 | \$ 1,668,704.00 | \$ 2,588,295.00 | | \$ 13,083,361.75 | |
| CONTINGENCIES (15%) | | | \$ 192,782.48 | \$ 788,029.69 | \$ 343,142.25 | \$ 250,305.60 | \$ 388,244.25 | | \$ 1,962,504.27 | |
| ENGINEERING AND ADMINISTRATION (18%) | | | \$ 266,039.82 | \$ 1,087,480.97 | \$ 473,536.31 | \$ 345,421.73 | \$ 535,777.07 | | \$ 2,708,255.89 | |
| TOTAL ESTIMATED PROJECT COST | | | | \$ 1,744,038.80 | \$ 7,129,041.91 | \$ 3,104,293.56 | \$ 2,264,431.33 | \$ 3,512,316.32 | | \$ 17,754,121.91 |

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Appendix B: Figures

City of Hopkins, Minnesota





LEGEND

EXISTING FIGURES

BITUMINOUS EDGE

CONCRETE EDGE

CONCRETE CURB

GRAVEL EDGE

RIGHT-OF-WAY

SANITARY SEWER

SOURCE

STORM SEWER

DOUBLE STORM MANHOLE

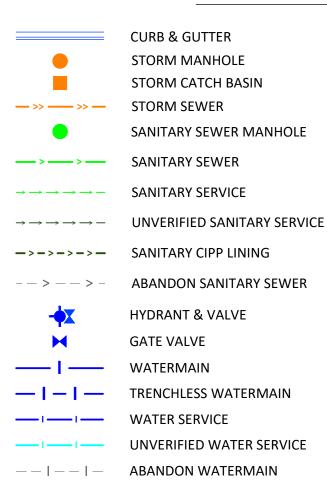
STORM CATCH BASIN

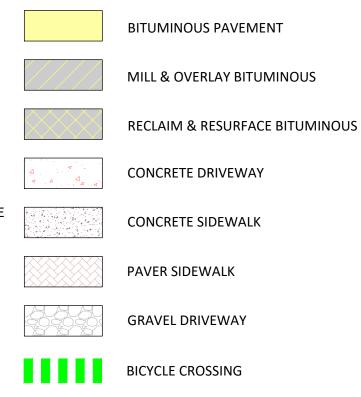
WATERMAIN

HYDRANT

GATE VALVE

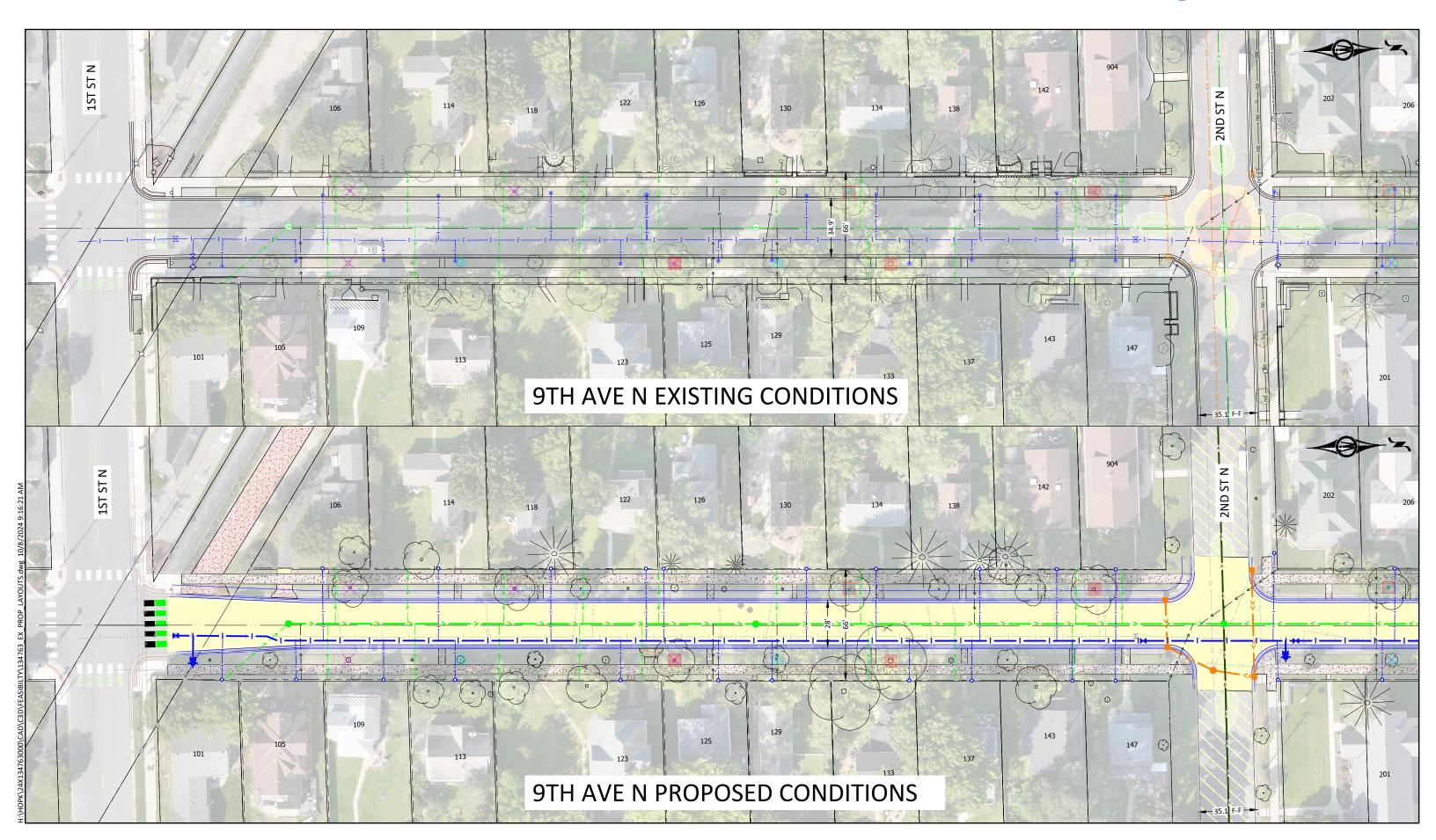
PROPOSED FIGURES

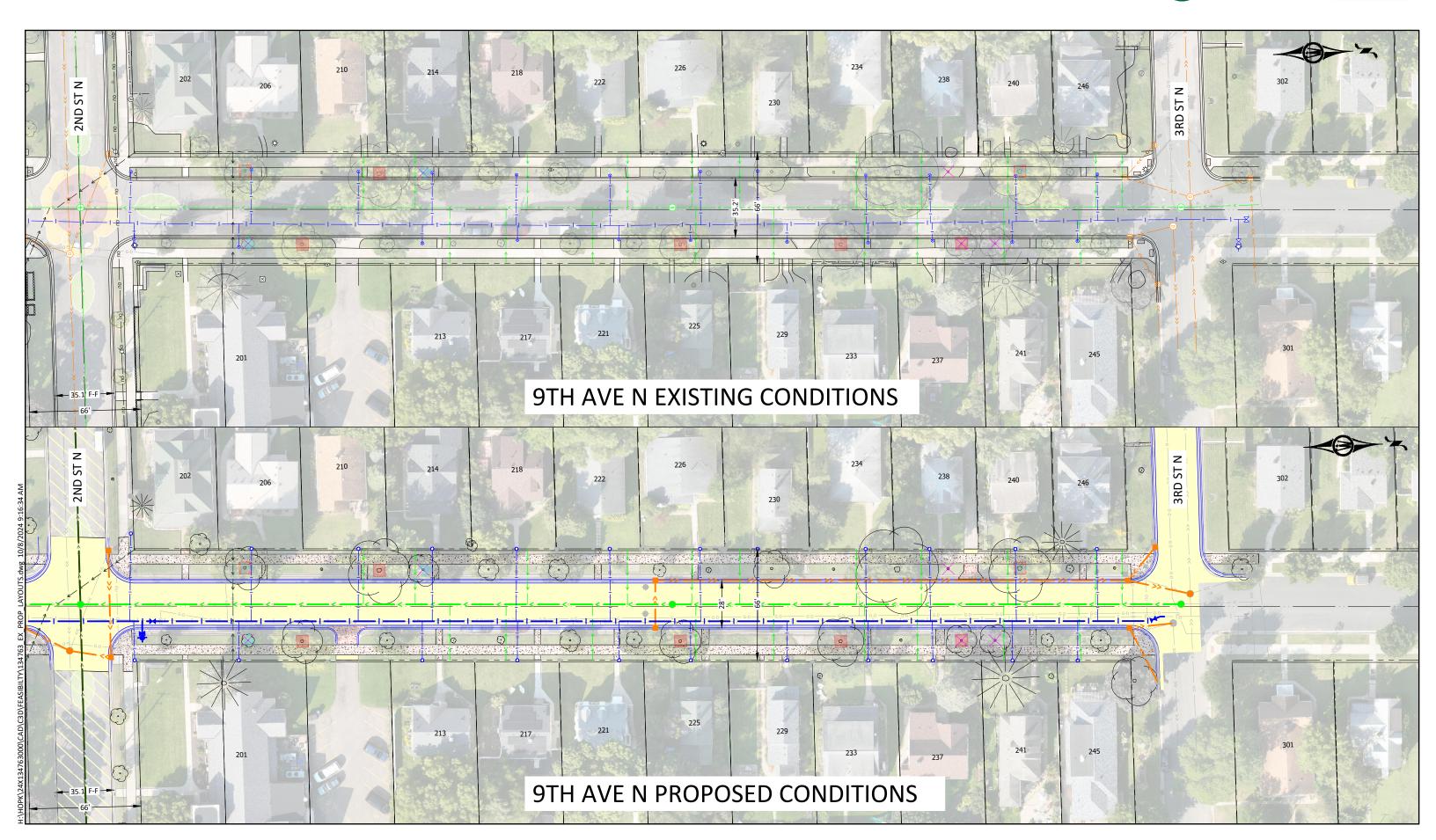


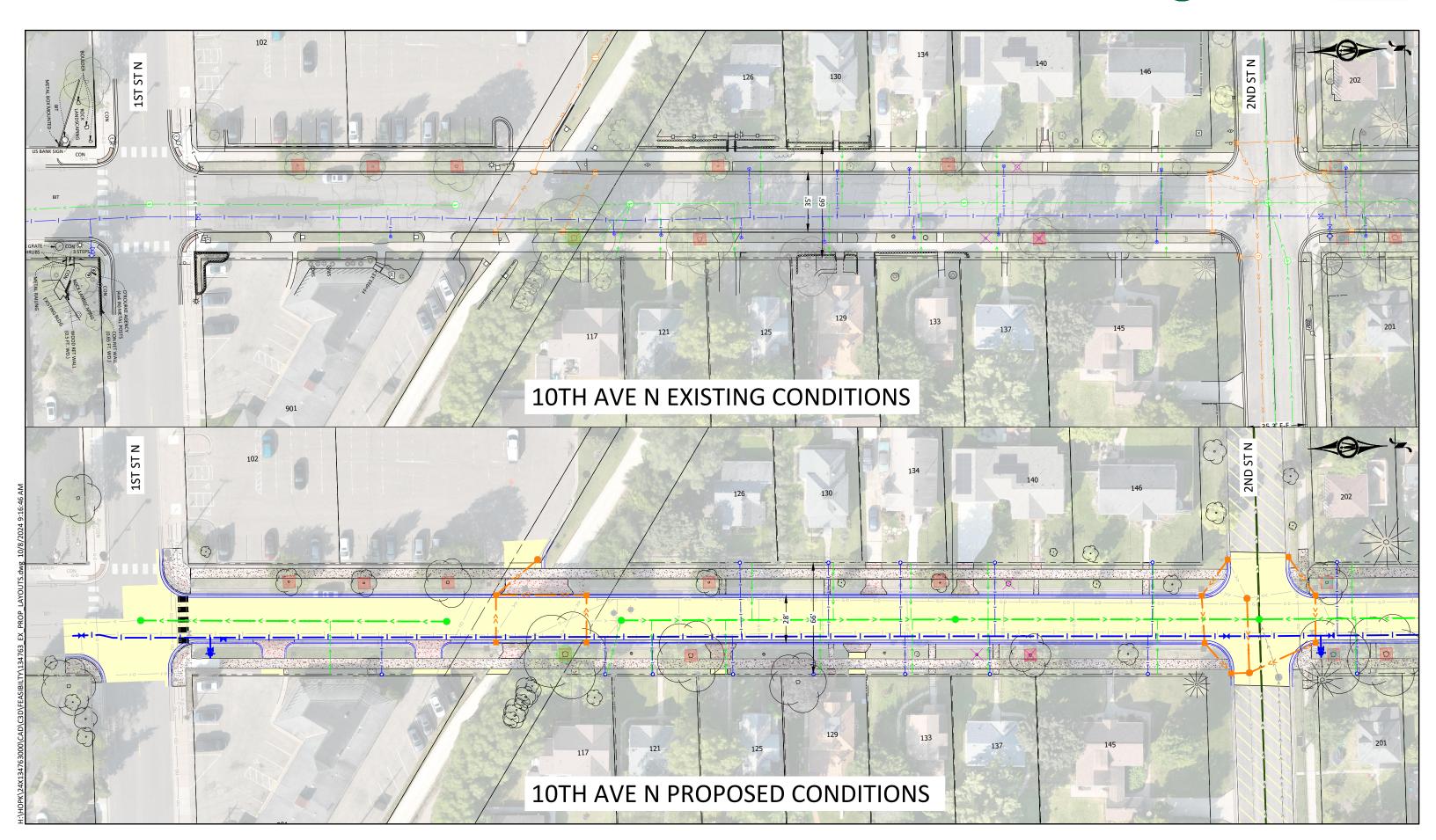


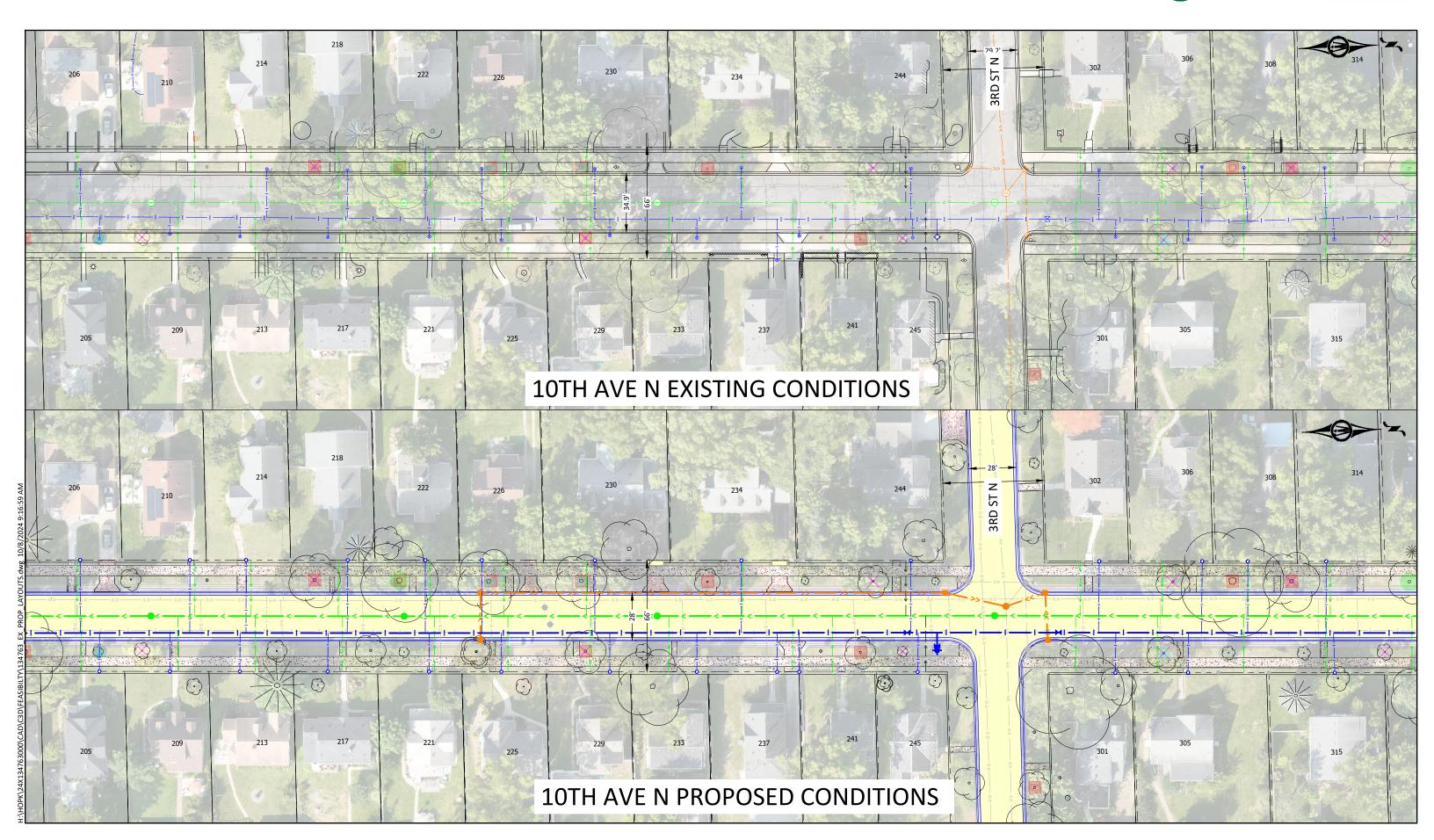
PEDESTRIAN CROSSING

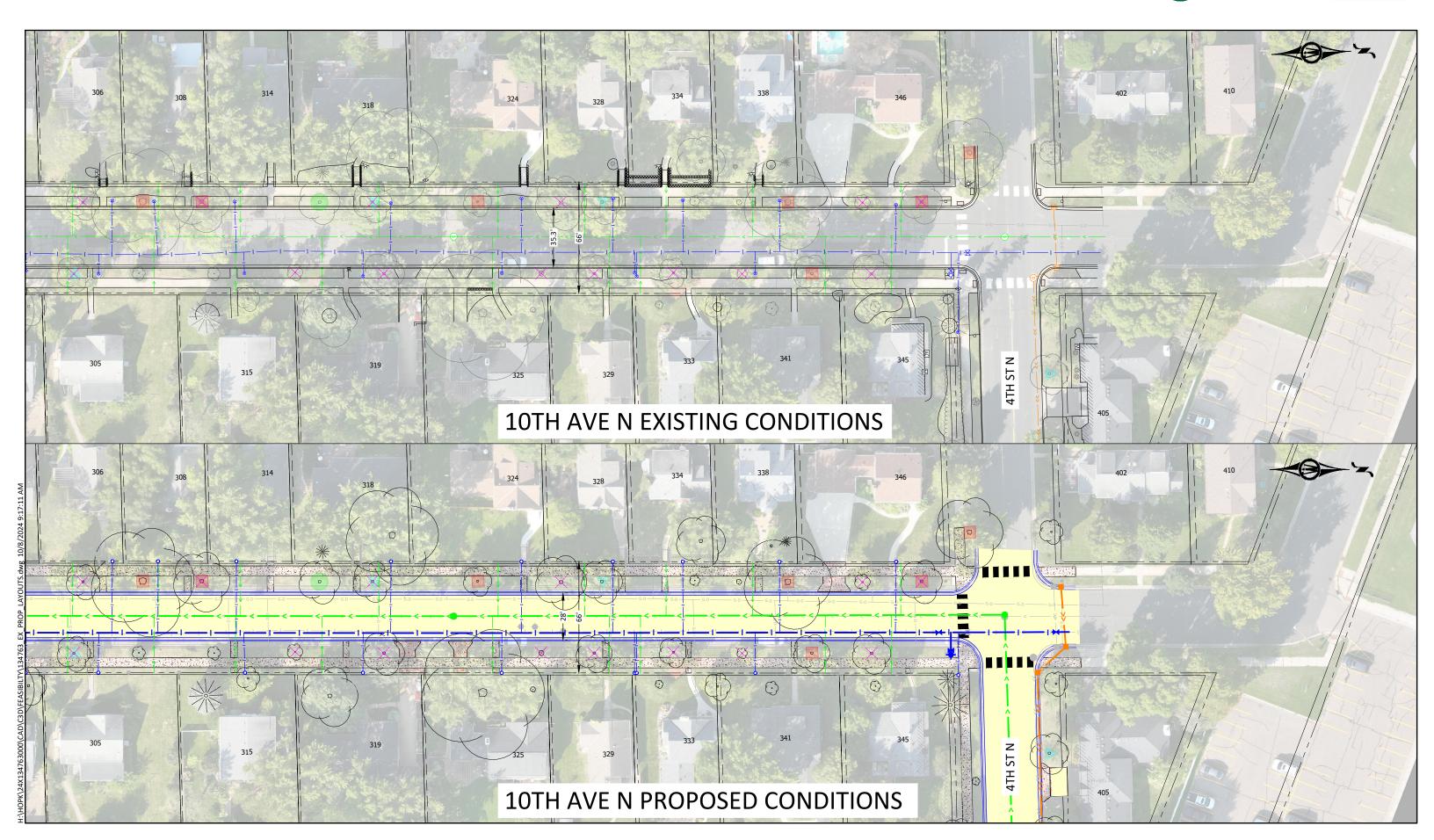


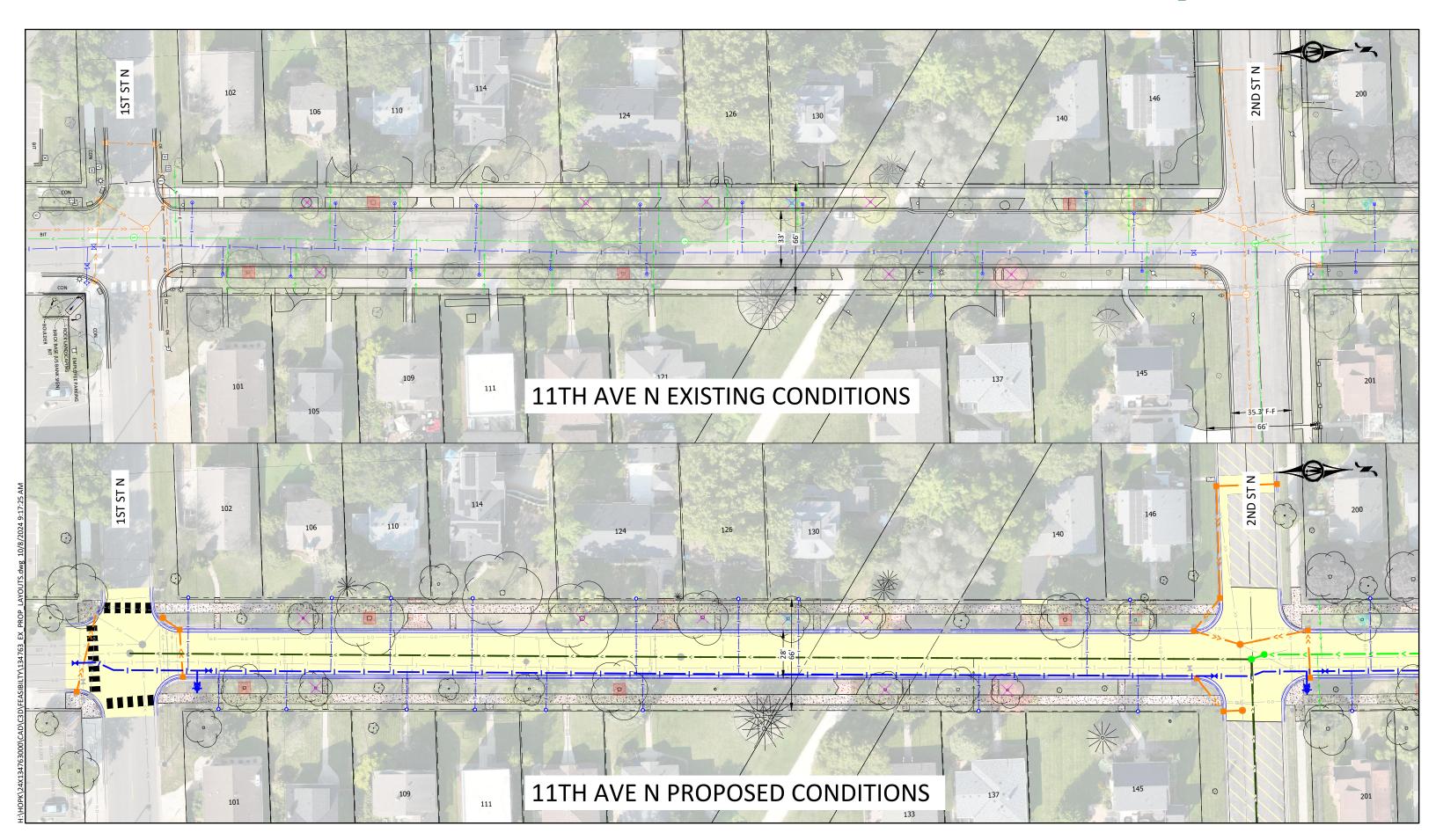


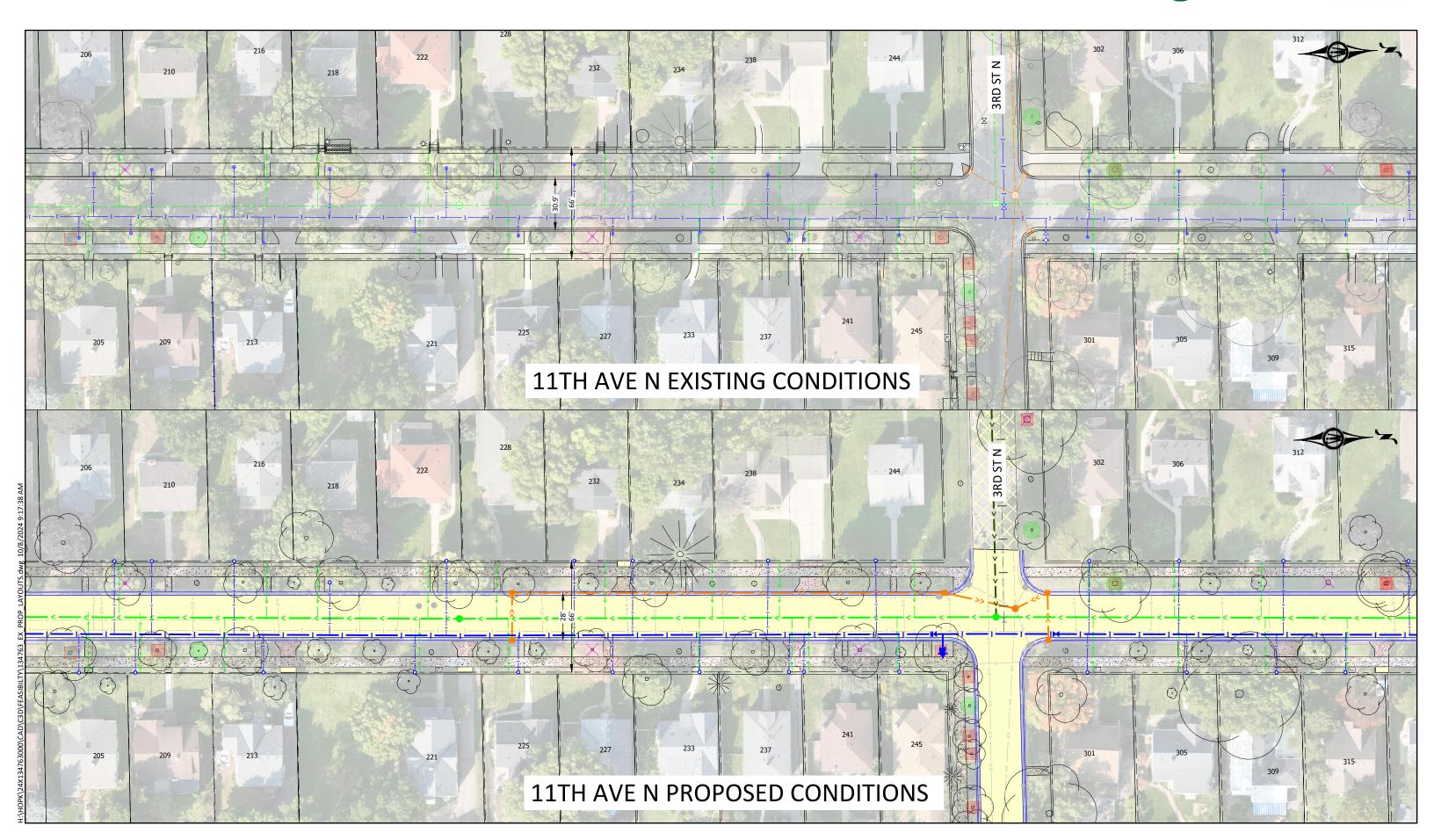


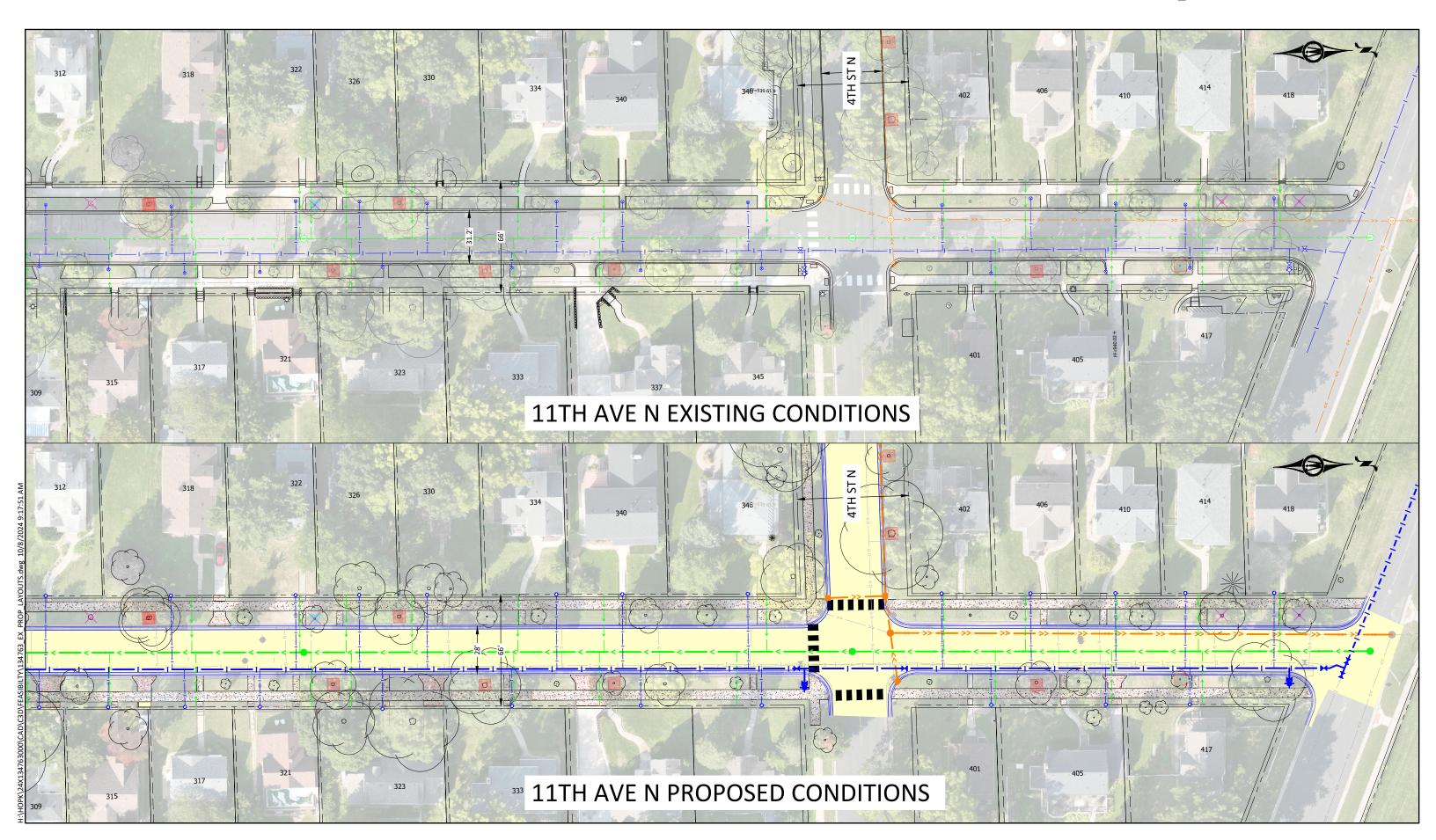




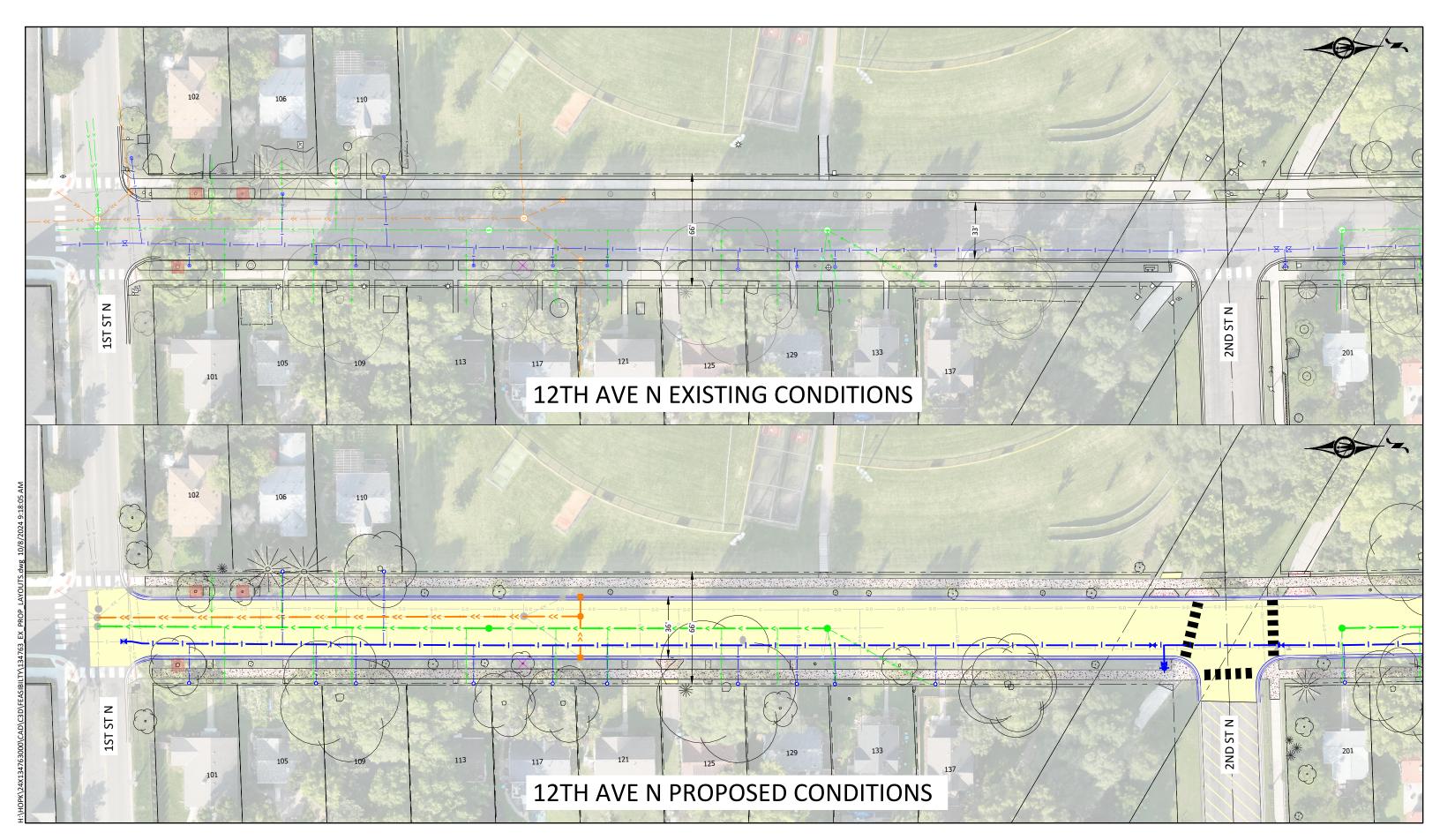




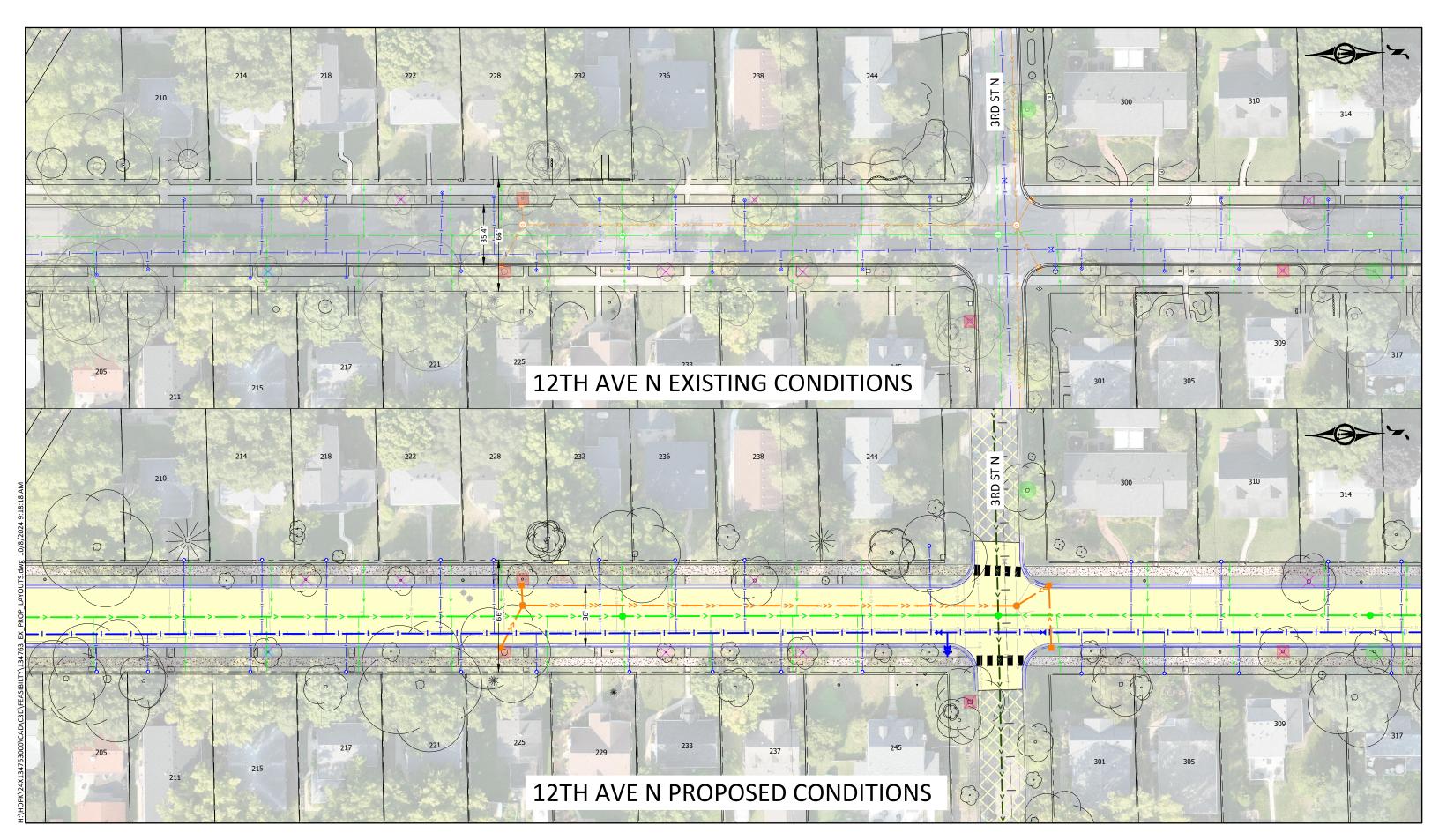




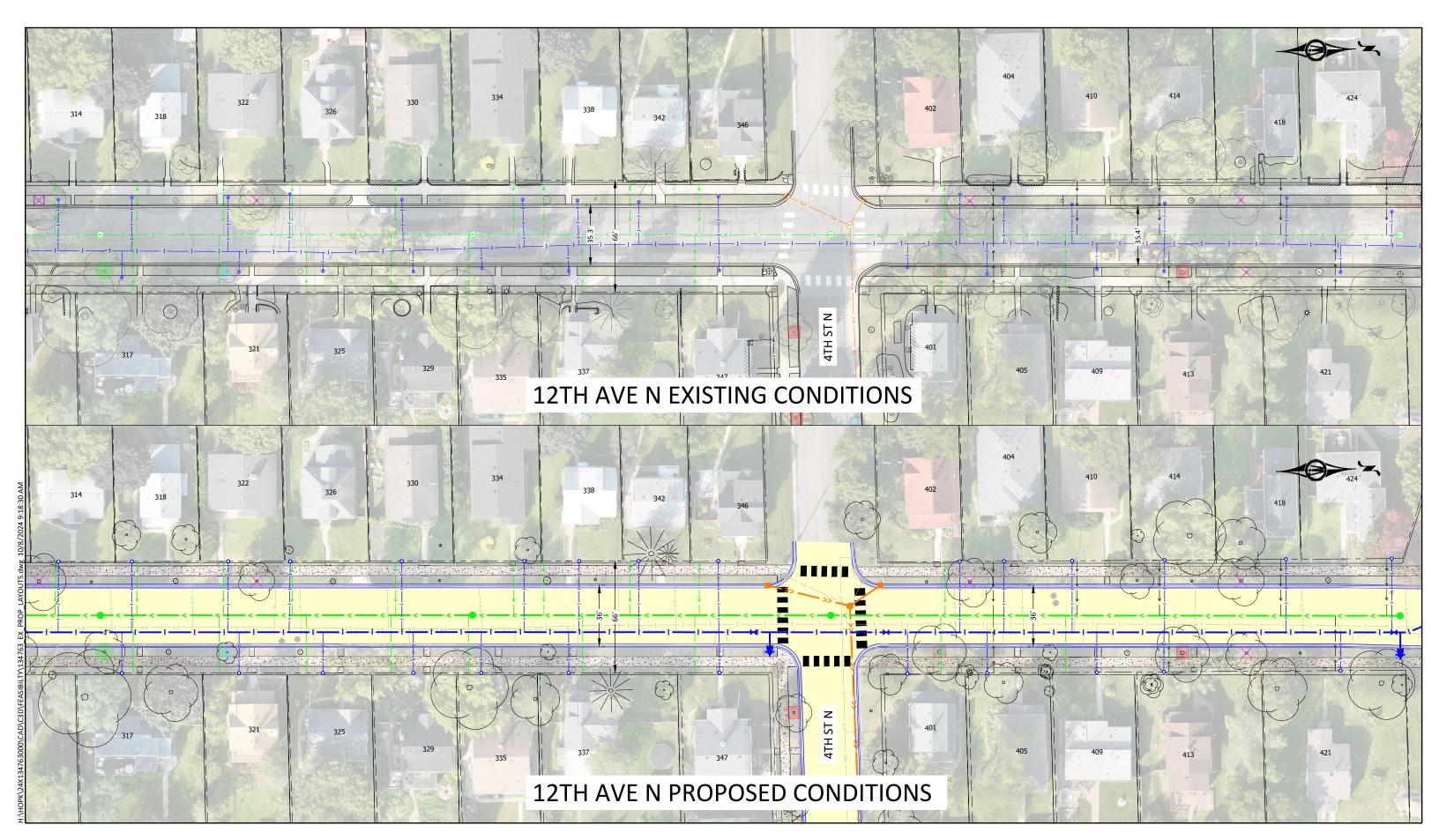




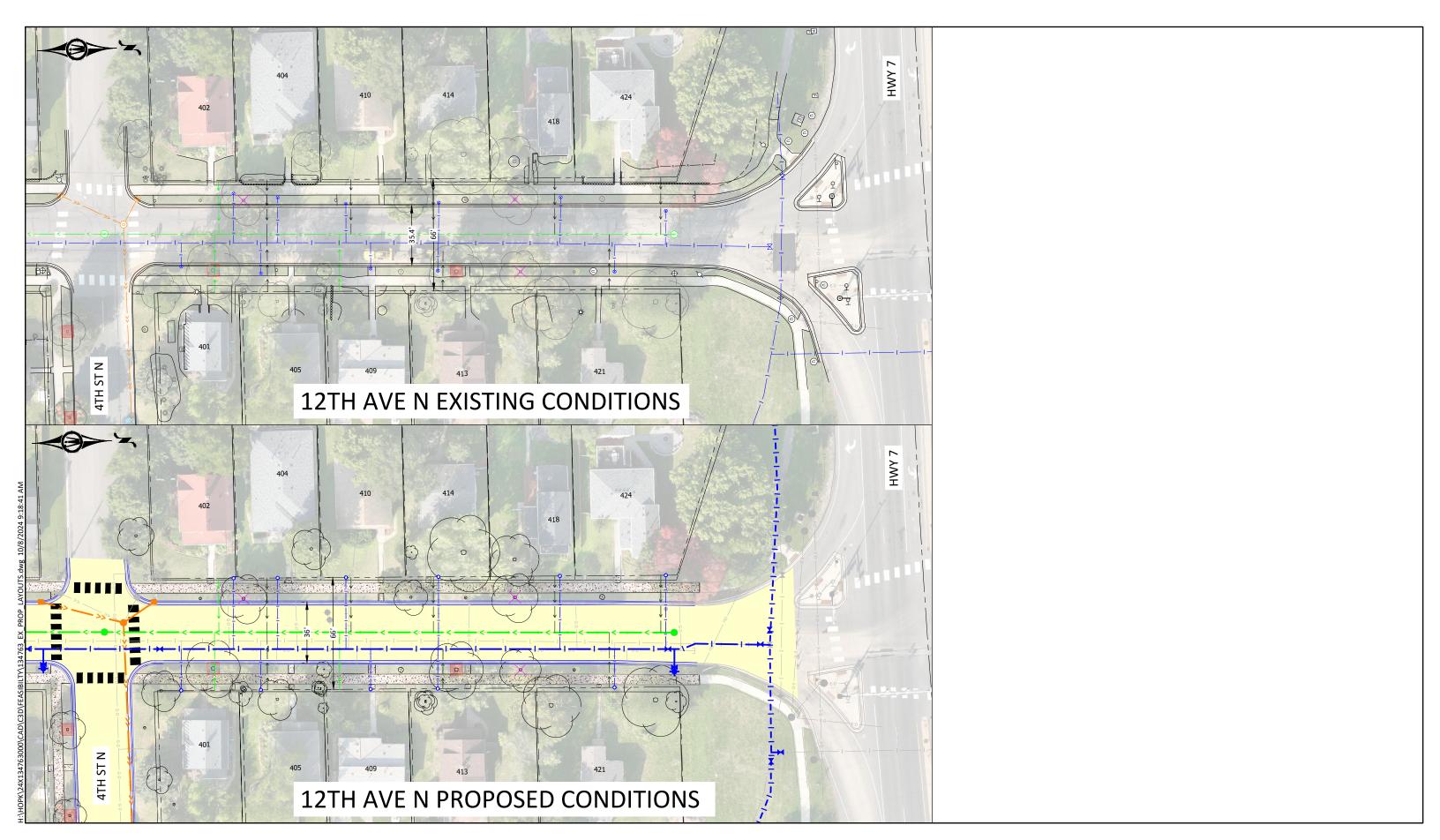




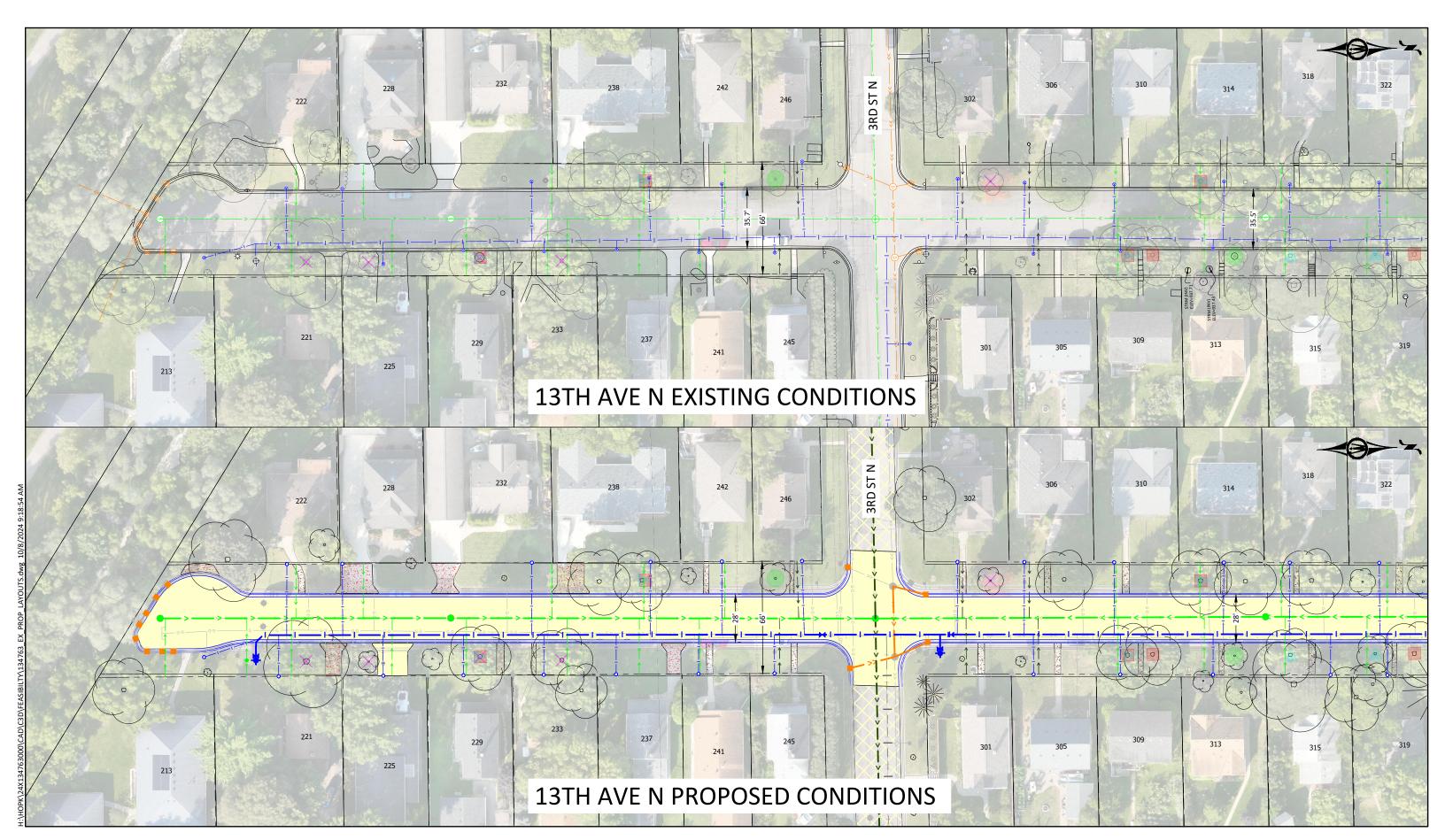


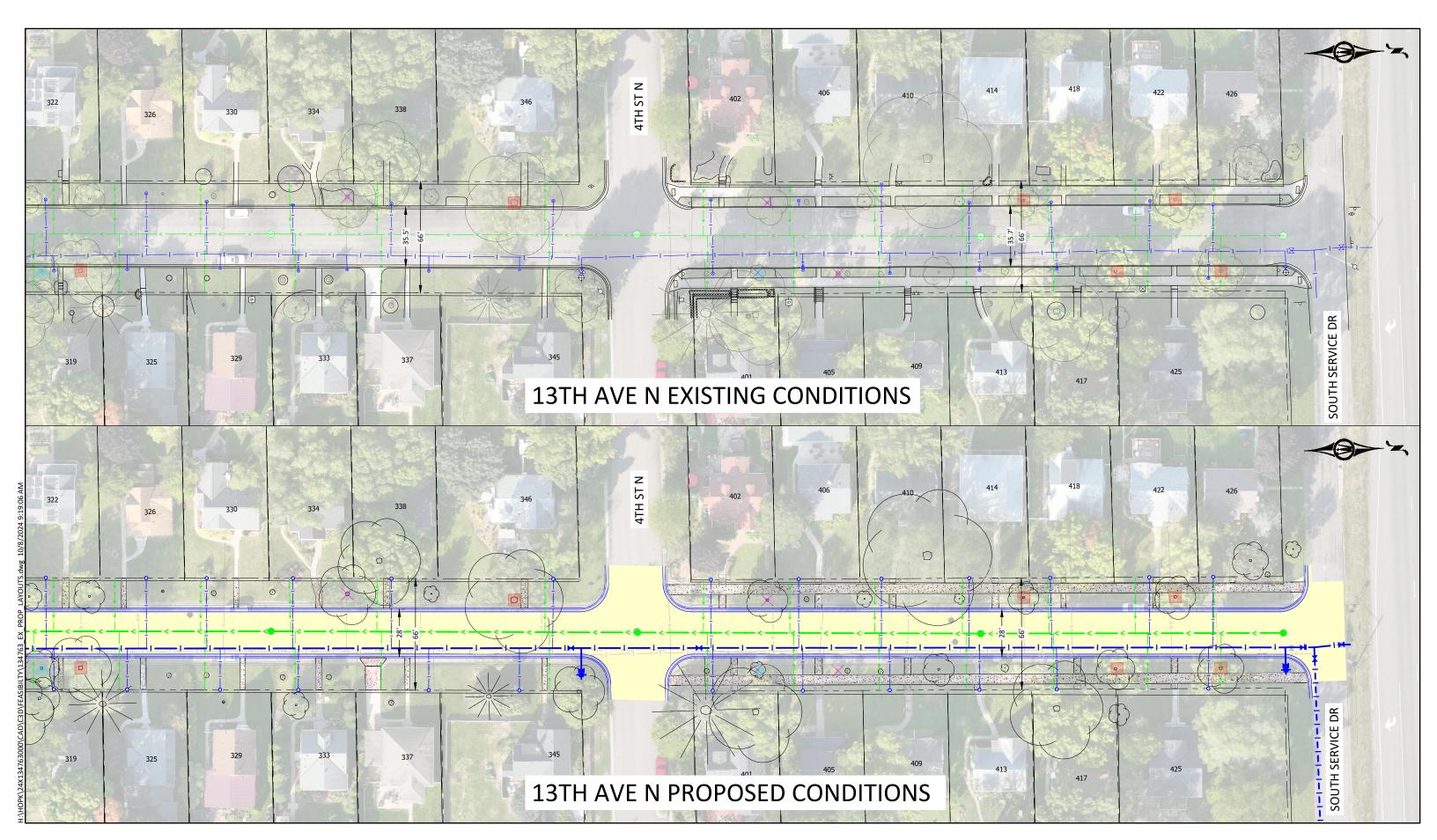


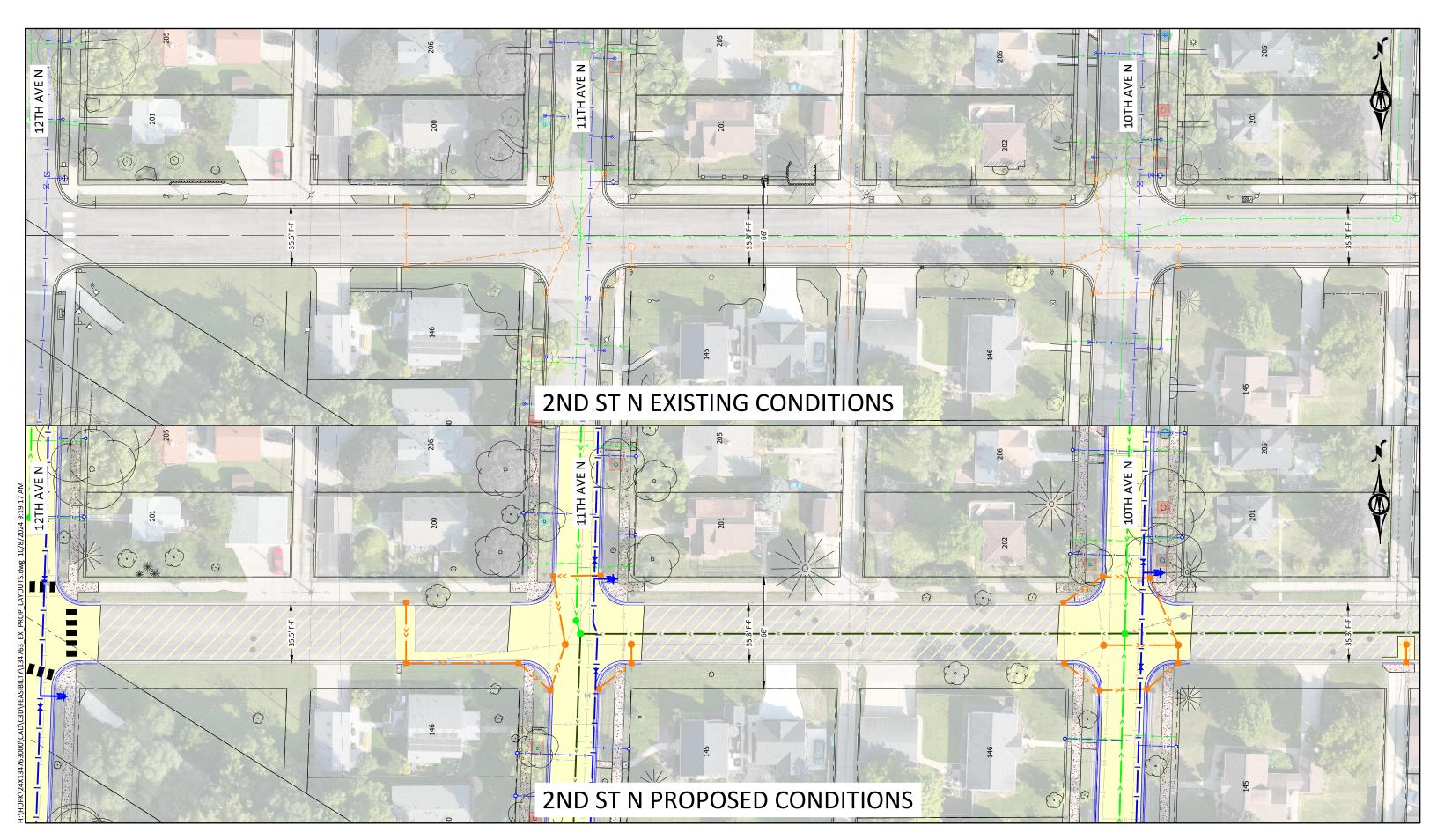


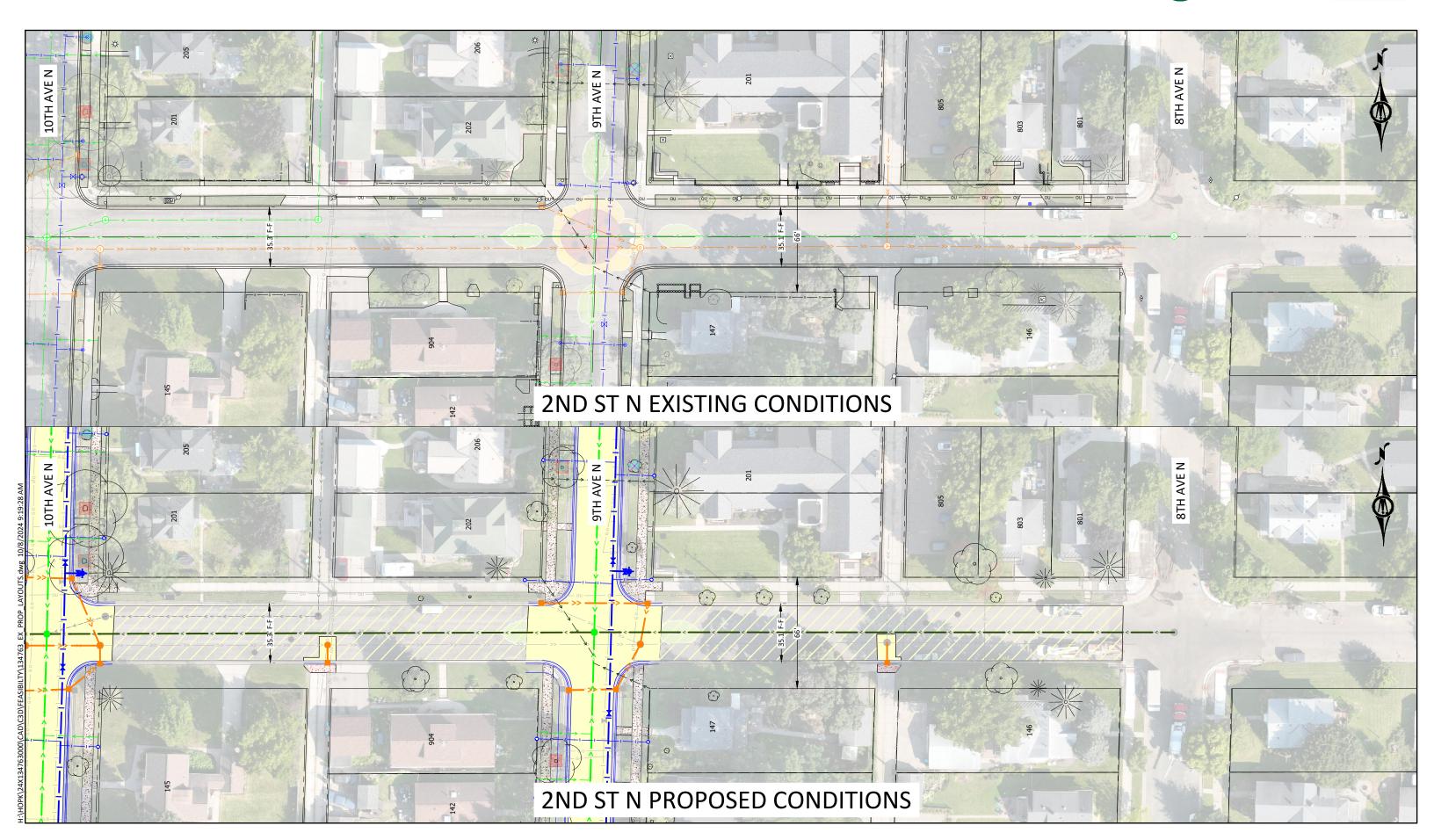


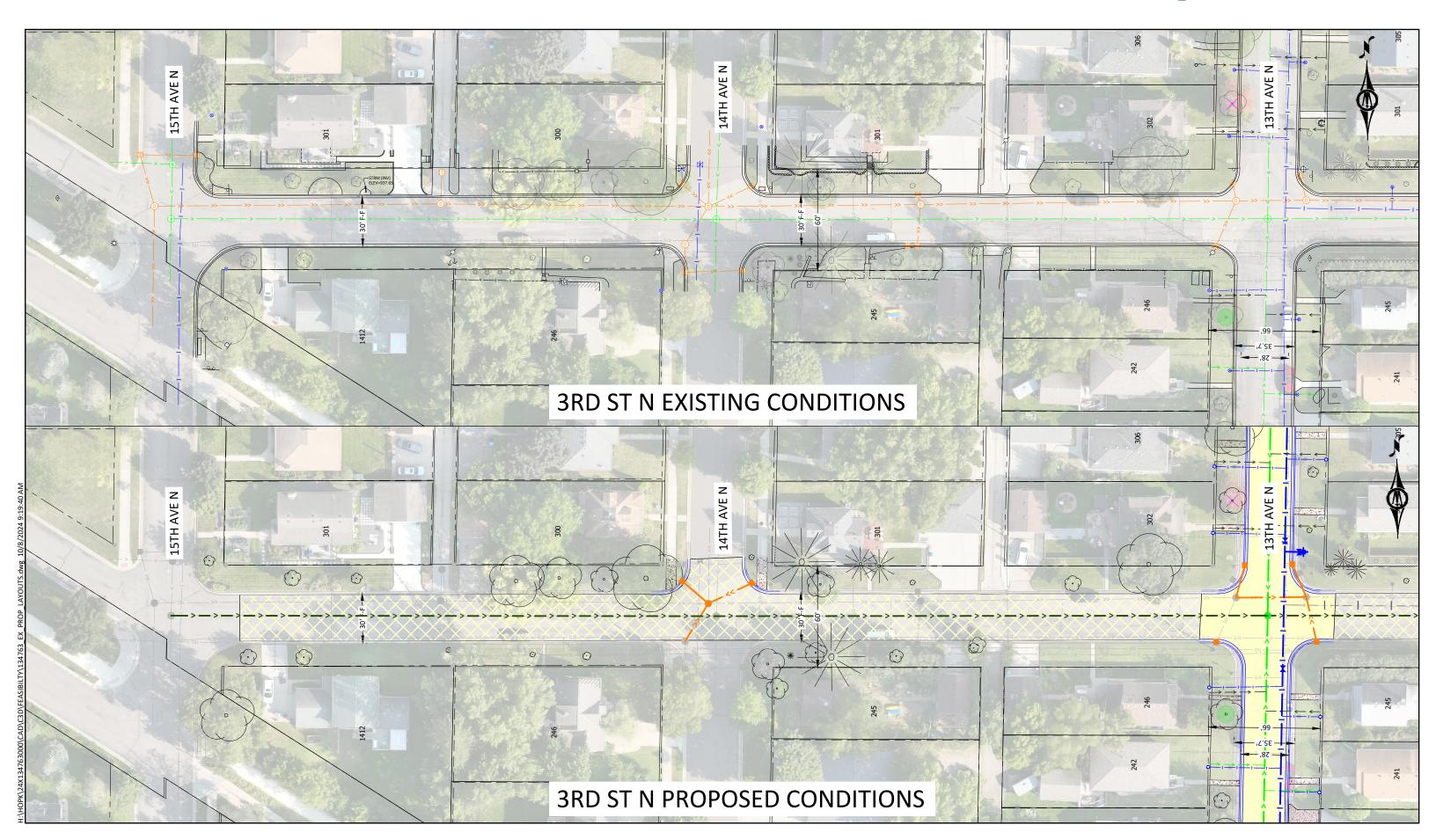


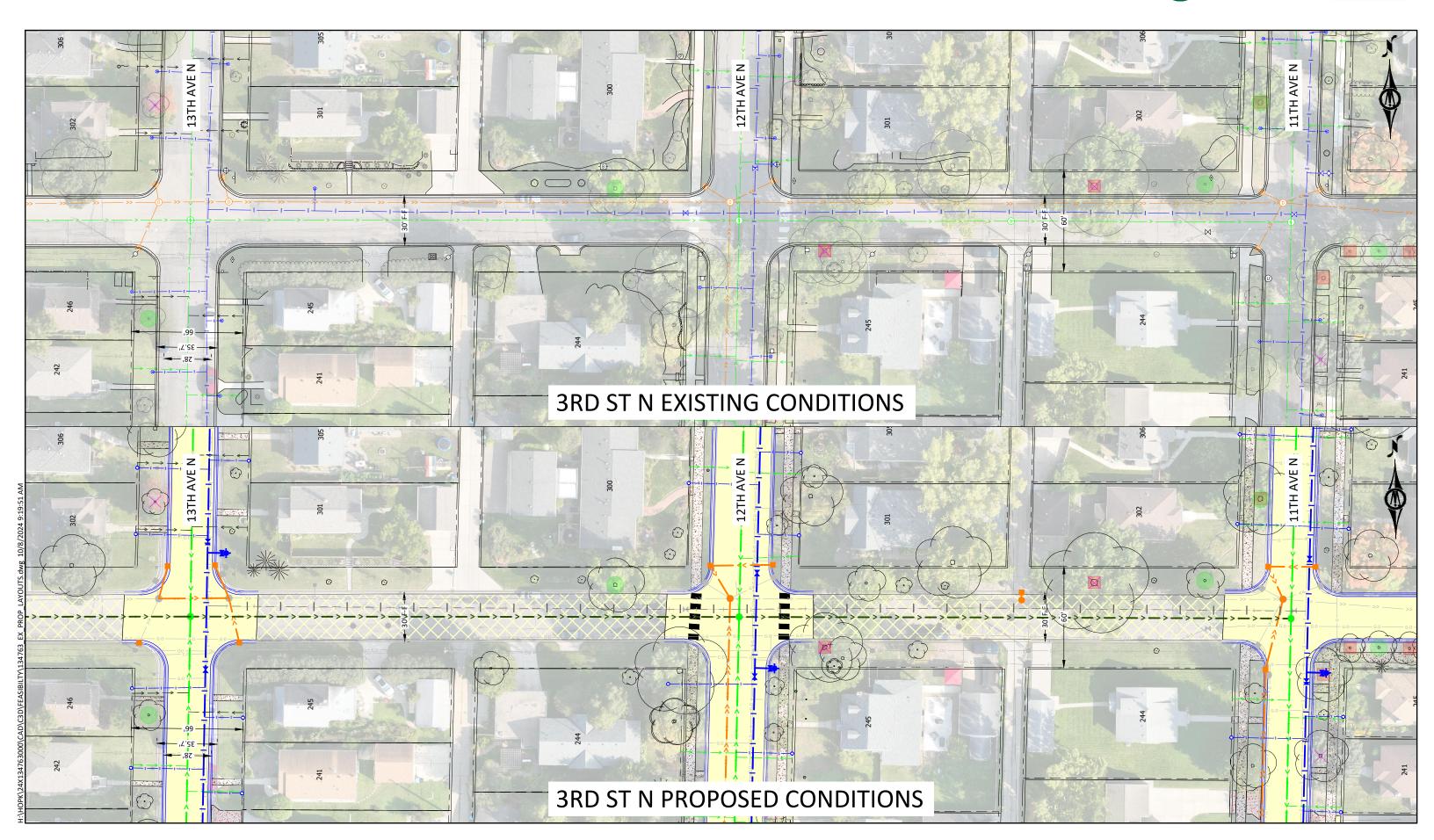


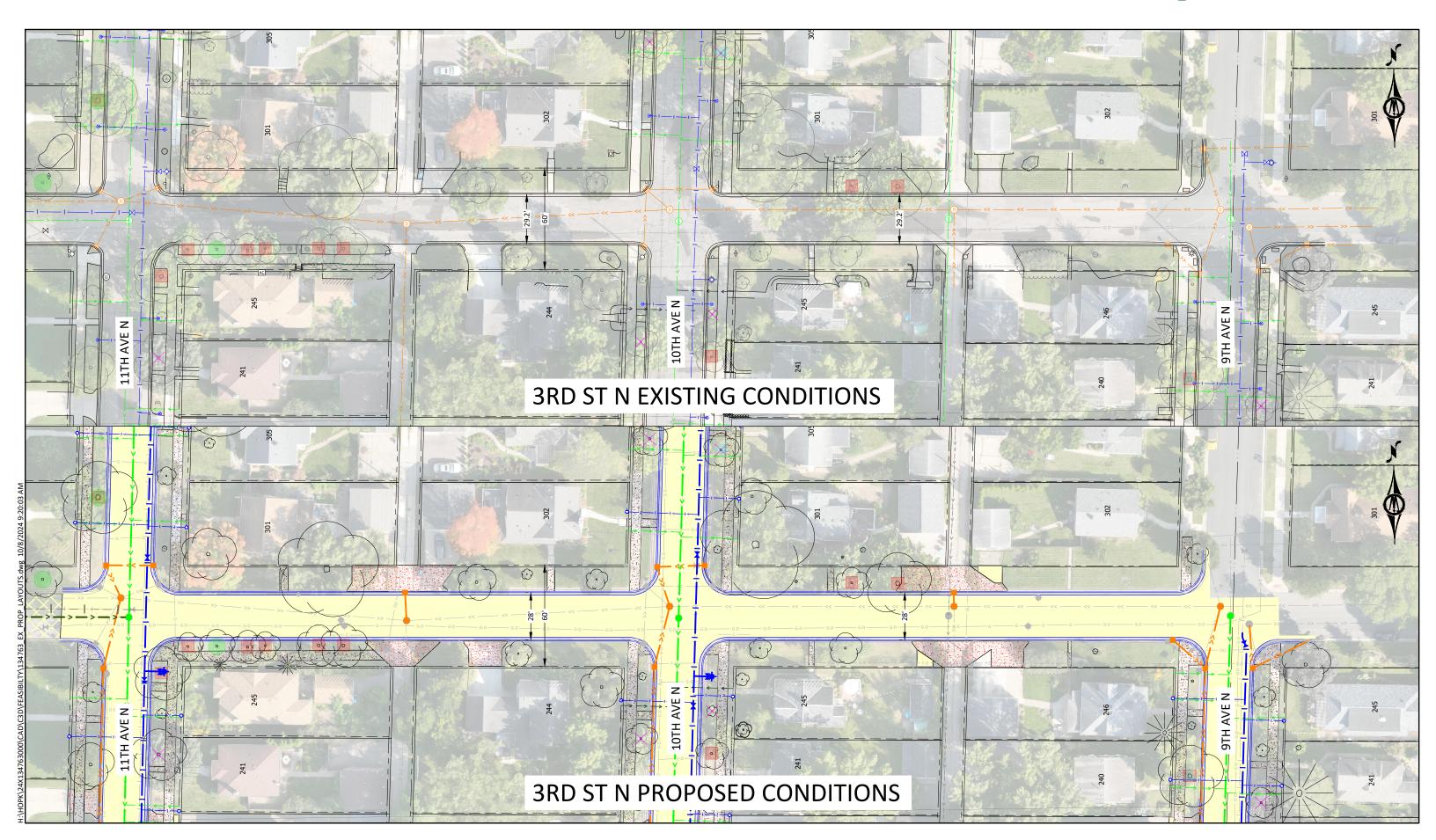




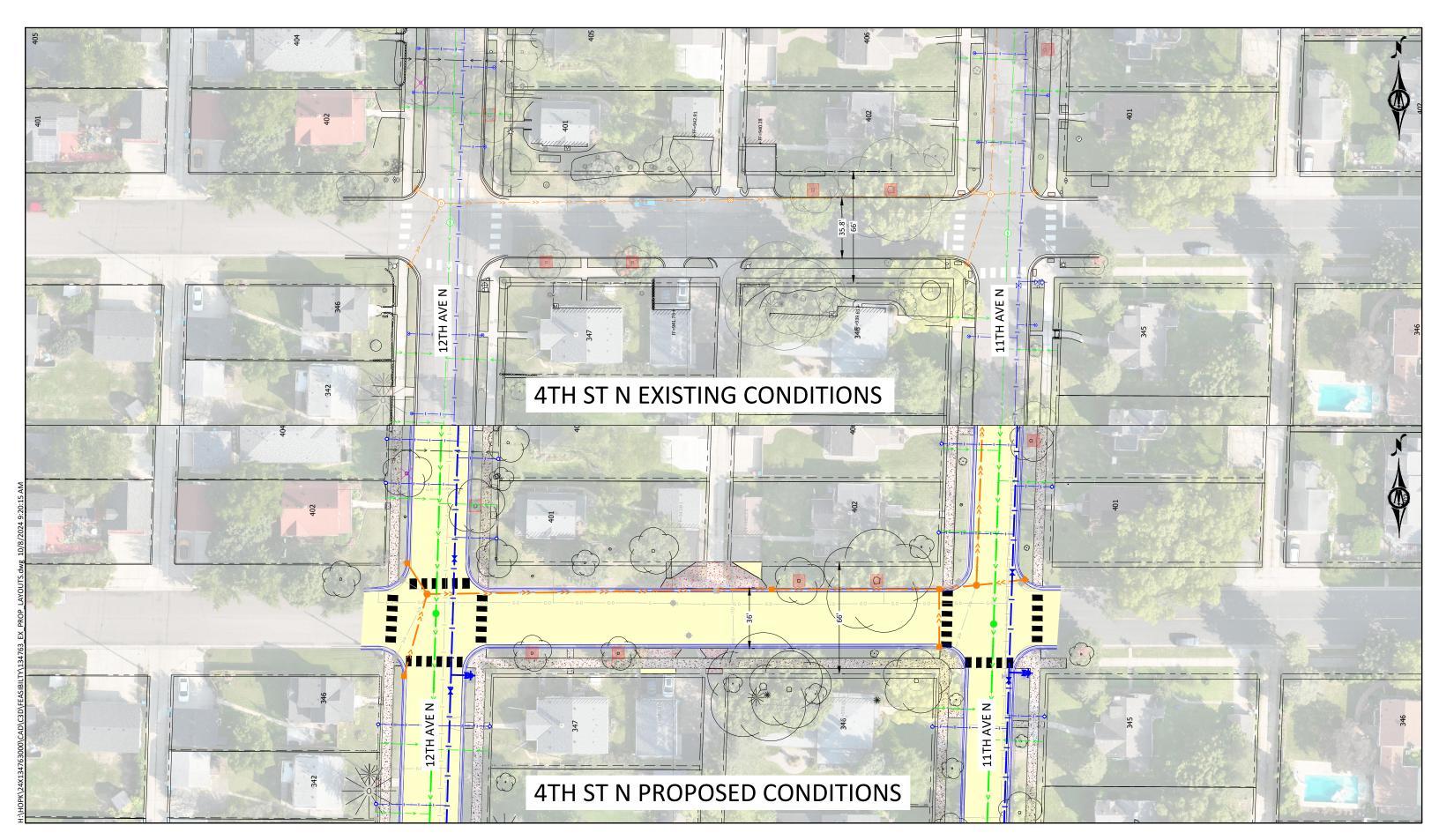




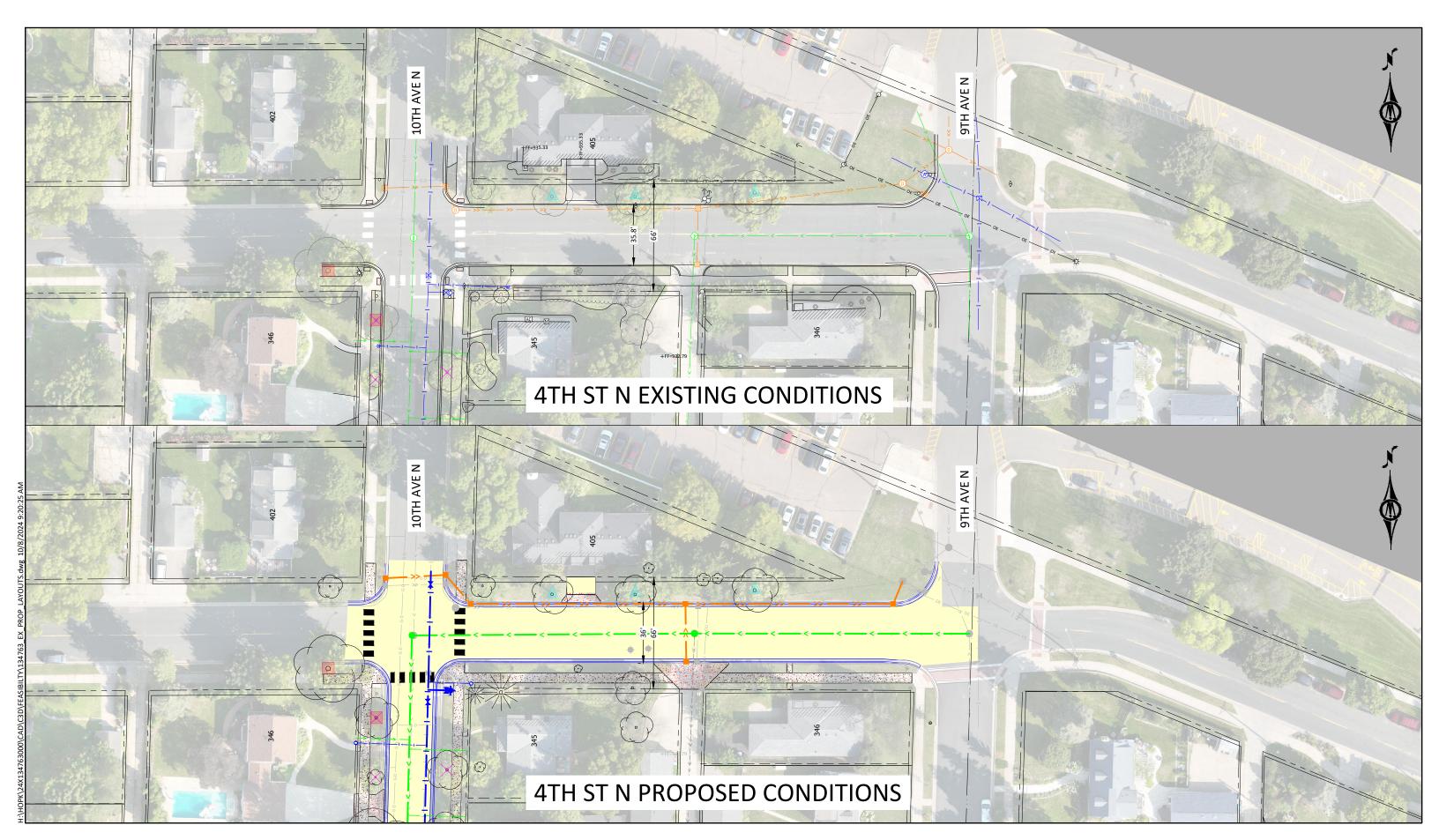












Appendix C: Preliminary Assessment Roll

PRELIMINARY ASSESSMENT ROLL

CENTRAL AVENUES IMPROVEMENTS PHASE 2 CITY OF HOPKINS, MN

CITY PROJECT NO. 2024-10

| Column | PID | PROPERTY ADDRESS | TAXPAYER NAME | TAXPAYER ADDRESS (LINE 1) | TAXPAYER ADDRESS (LINE 2) | PROPOSED STREET ASSESSMENT | PROPOSED WATER SERVICE ASSESSMENT | PROPOSED SEWER SERVICE ASSESSMENT | TOTAL PROPOSED ASSESSMENT |
|---|--|---|--|---|--|---|--|---|---|
| Marging 1.0 mm | | | | | | | | | \$ 9,986.94 |
| MINISTRATE MARCHAN CAPTAN MARCHAN | | | | | | τ ο, | 7 -, | | |
| MATERIAL | | | | | | | | | |
| Marging 10 Street 10 Str | | | | | | | | | τ 0/220.00 |
| | | | | | | | | | |
| March Marc | | | | | | | | | |
| No. 09-00-00-00-00-00-00-00-00-00-00-00-00-0 | | | | | | | | | |
| SECURITION | 2411722310122 | 145 10TH AVENUE NORTH | LAURESE P LAGRANGE | 145 10TH AVE N | HOPKINS MN 55343 | \$ 11,041.32 | \$ 1,425.00 | \$ 1,237.50 | \$ 13,703.82 |
| No. 0.000000000000000000000000000000000 | | | | | | | | | |
| MINISTER MARCH M | | | | | | | | | |
| Material | | | | | | | | | |
| No. Control | | | | | | | | | |
| Tell | 2411722240032 | 210 10TH AVENUE NORTH | KYLE G FRISK ELIZABETH A REYNOLDS | 210 10TH AVE N | HOPKINS MN 55343 | \$ 5,466.00 | \$ 1,425.00 | \$ 1,237.50 | \$ 8,128.50 |
| ADDITIONAL PRINTS | | | | | | | | | |
| Mail | | | | | | | | | |
| SECTION Column | | | | | | | | | \$ 8,128.50 |
| Sept. Sept | | | | | | , | | | |
| PROFESSION PROFESSION CONTINUE ADMINISTRATION CONTINUE ADMINIS | 2411722240019 | 225 10TH AVENUE NORTH | SERENA MINNIHAN | 225 10TH AVE N | HOPKINS MN 55343 | \$ 5,466.00 | \$ 1,425.00 | \$ 1,237.50 | \$ 8,128.50 |
| SALESTOPPING DE SIGN BERNES DESTRUCTION DE SIGN BERNES DE SIGN B | | | | | | | | | |
| MATERIAN MATERIAL | | | | | | | | | |
| MINISTERN 19 MINISTER DETERM MINISTER DE | | | | | | | | | \$ 7,691.22 |
| 14177720000 Rt. URL NOTH AND ADM A | | | | | | | | | |
| \$4117729800 \$10 PRINT AND LOTT \$10 PRINT AND | 2411722240023 | 241 10TH AVENUE NORTH | MELANIE ANN KLASS | 241 10TH AVE N | HOPKINS MN 55343 | \$ 4,919.40 | \$ 1,425.00 | \$ 1,237.50 | \$ 7,581.90 |
| MITTERSTREET STATE AND ADDRESS 1,000 1 | | | | | | | | | |
| ### ### PROPERTY BEST AND STORMAND STORM AND STORMAND STO | | | | | | | | | , , , , , , , |
| MINISTRATES DESIGN ACCURATION ORIGINATION MANAGEMENT AND MANAGEMENT ORIGINATION | | | | | | | | | |
| SHEPPAREN SHEP | | | | | | | | | |
| SETTINGENEES 1.00 APPLICATION OF A STOCKARD REPORTS OF A STOCKARD STATE OF A STOCK | 2411722240134 | | JAY FURNALD | 308 10TH AVE N | HOPKINS MN 55343 | \$ 1,459.04 | \$ 1,425.00 | \$ 1,237.50 | \$ 4,121.54 |
| MATERIAN | | | | | | | \$ 1,425.00 | \$ 1,237.50 | |
| 241172200015 10 H RTH AVERNE SOUTH 10 H READ STATE 1 H READ STATE | | | | | | | | | |
| 2017 | | | | | | | | | |
| Mail Part Mail | | | | | | | | | |
| 24117224006 33 3PTH AVENUE ROBERT GERDANI AMERICAN 34 1279 5 1,279 | | | | | | | \$ 1,425.00 | \$ 1,237.50 | \$ 4,121.54 |
| 241172290127 19 17 17 17 17 17 17 1 | | | | | | | | | \$ 8,128.50 |
| SELECTION SELE | | | | | | + -, | | | \$ 4,121.54 |
| 281172220007 165 UPIT AVENUE ROPETH 167 PARK 16 | | | | | | 7 | | | \$ 4,121.54 |
| 24117223000 10 1171 AVENUE NORTH 10 500 AM POOL 12 117 AVEN 10 500 AM POOL 12 117 | | | | | | 7 .,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,, | | | |
| 241172231007 101 1114 AVENUE MODITS NANCH MOD | 2411722240127 | 346 10TH AVENUE NORTH | JEFFREY & SUSAN RADDE | 346 10TH AVE N | HOPKINS MN 55343 | \$ 5,503.88 | \$ 1,425.00 | \$ 1,237.50 | \$ 8,166.38 |
| 24117221007 102 11TH AVEN HOPPINS MY SSARS \$ 5,466.00 \$ 1,425.00 \$ 1,227.50 \$ 8,123.90 | | | | | | | | | |
| 2411722310076 109 1111 AVARUE NORTH NINGTHY E HAWKINSON SABAN ANDERSON 109 1111 AVAR N HOPRINS NIN 55343 \$ 5,466.00 \$ 1.425.00 \$ 1.227.00 \$ 8,137.9 \$ 2411722310075 110 1111 AVARUE NORTH | 2411722310077 | 102 11TH AVENUE NORTH | NANCY DOWELL | 102 11TH AVE N | HOPKINS MN 55343 | \$ 5,466.00 | \$ 1,425.00 | \$ 1,237.50 | \$ 8,128.50 |
| 241172231007 109 1111 AVENUE MORTH ASON DE AMINCA WIGHDOOS 101111 AVEN HOPPINS MIN 55848 5, 54660 5 1.425.00 5 1.237.05 5 1.329.50 | | | | | | | | | |
| 241172231007 111 111 AVENUE RORTH DOMAIN COLUMS & LARA GONGS 111 111 111 AVEN HOPPIGES MIN 55343 \$ 5,866.00 \$ 1,425.00 \$ 1,227.50 \$ 1,086.15 2411722310079 110 111 AVENUE RORTH DOMEIN PURCHASH DOMEIN PUR | | | | | | | | | |
| 2411722100074 131111 AVENUM PROPRIT AMELIA FURDITO 1311111 AVENUM PROPRIT AMELIA FURDITO 131111 AVENUM PROPRIT AMELIA FURDITO 131111 AVENUM PROPRIT AMELIA FURDITO 131111 AVENUM PROPRIT 131111 AVENUM P | | | | | | | | | |
| 241172210079 139 11TH AVENUE MORTH CARLOS MAIN MOSTER 1950 WOODSTOME IN VICTORIA MS5388 \$,8,66.00 \$ 1,425.00 \$ 1,237.00 \$ 5,858.00 241172210073 134 11TH AVENUE MORTH THOMAS & DANNE DEDICATORY 124 11TH AVENUE MORTH THOMAS & DANNE DEDICATORY 124 11TH AVENUE MORTH 140 MORTH | | | | | | | | | |
| 241172230072 130 111M AVENUE NORTH MISS CONSON WILLIAM STOCKS MISS 1241174E N HOPKINS MISS 3333 S 8,3964.28 \$ 1,425.00 \$ 1,237.50 \$ 8,128.50 241172230072 130 111M AVENUE NORTH MISS STOCKS WILLIAM STOCK | 2411722310099 | 119 11TH AVENUE NORTH | DANIEL P IDSTROM | 119 11TH AVE N | HOPKINS MN 55343 | \$ 5,466.00 | \$ 1,425.00 | \$ 1,237.50 | \$ 8,128.50 |
| 241172230072 136 1111 AVENUE NORTH MICHAEL MOCERNEM 130 1111 AVEN NO HOPKINS MIS \$3343 \$, \$466.00 \$, \$1,25.00 \$ \$, \$1,237.00 \$ 1, | | | | | | | | | |
| 241172230001 333 1111 AVENUR NORTH JAMES F & TERR SAPENNA 333 1111 AVEN HOPKINS MISSSAS \$ 7,008.00 \$ 1,237.00 \$ 1,237.00 \$ 9,768.00 \$ 1,237.00 \$ 1,237.00 \$ 9,768.00 \$ 1,237.00 \$ 1,237.00 \$ 9,768.00 \$ 1,237.00 \$ 1 | 2411722310072 | 126 11TH AVENUE NORTH | JADE STOCKS WILLIAM C STOCKS | | | \$ 5,466.00 | \$ 1,425.00 | \$ 1,237.50 | |
| ### 241172230002 337 111 H AVENUE MORTH GREGORY & PATRICIA GRAHEK 337 111 H AVEN HOPRINS MN \$5343 \$ 5,666,00 \$ 1,425,00 \$ 1,237.50 \$ 7,909.80 \$ 2411722300144 345 111 H AVEN M ORTHIN SMN \$5343 \$ 5,247.36 \$ 1,425.00 \$ 1,237.50 \$ 1,381.31 \$ 1,425.00 \$ 1,237.50 \$ 1,381.31 \$ 1,425.00 \$ 1,237.50 \$ 1,381.31 \$ 1,425.00 \$ 1,237.50 \$ 1,381.31 \$ 1,425.00 \$ 1,237.50 \$ 1,381.31 \$ 1,425.00 \$ 1,237.50 \$ 1,425.00 \$ 1,237.50 \$ 1,425.00 \$ 1,237.50 \$ 1,425.00 \$ 1,237.50 \$ 1,425.00 \$ 1,237.50 \$ 1,425.00 \$ 1,237.50 \$ 1,425.00 \$ 1,237.50 \$ 1,425.00 \$ 1,237.50 \$ 1,425.00 \$ 1,237.50 \$ 1,425.00 \$ 1,237.50 \$ 1,425.00 \$ 1,237.50 \$ 1,425.00 \$ 1,237.50 \$ 1,425.00 \$ 1,237.50 \$ 1,425.00 \$ 1,237.50 \$ 1,425.00 \$ 1,425. | | | | | | | | | |
| ### 241172230000 140 ITH AVENUE MORTH HOWARD R KONESON IR 140 ITH AVEN HOPRINS MN 55343 \$ 1,425.00 \$ 1,227.50 \$ 7,909.8 2411722310009 146 ITH AVENUE MORTH HOKARD R KINDAD PAVELKA 146 ITH AVEN HOPRINS MN 55343 \$ 1,150.64 \$ 1,425.00 \$ 1,227.50 \$ 8,128.50 \$ 1,217.50 | | | | | | | | | |
| 241172230059 3.6 LITH AVENUE NORTH SICHARD & RHONDA PAVELKA 3.6 LITH AVEN HOPKINS MT \$5343 \$ 5.686.60 \$ 1.425.00 \$ 1.237.50 \$ 8.122.5 241172220035 20.1 LITH AVENUE NORTH CARLA S SILLANDRA 20.1 LITH AVEN HOPKINS MT \$5343 \$ 5.666.00 \$ 1.425.00 \$ 1.237.50 \$ 8.122.5 241172220035 20.5 LITH AVENUE NORTH CARLA S SILLANDRA 20.1 LITH AVEN HOPKINS MT \$5343 \$ 5.666.00 \$ 1.425.00 \$ 1.237.50 \$ 8.122.5 241172220035 20.5 LITH AVENUE NORTH CARLA S SILLANDRA 20.1 LITH AVEN HOPKINS MT \$5343 \$ 5.666.00 \$ 1.425.00 \$ 1.237.50 \$ 8.122.5 241172220035 20.5 LITH AVENUE NORTH CARLA S SILLANDRA 20.1 LITH AVEN HOPKINS MT \$5343 \$ 5.666.00 \$ 1.425.00 \$ 1.237.50 \$ 8.122.5 241172220036 20.1 LITH AVENUE NORTH CARLA S SILLANDRA 20.1 LITH AVEN HOPKINS MT \$5343 \$ 5.666.00 \$ 1.425.00 \$ 1.237.50 \$ 8.122.5 241172220037 20.1 LITH AVENUE NORTH CARLA S SILLANDRA 20.1 LITH AVEN HOPKINS MT \$5343 \$ 5.666.00 \$ 1.425.00 \$ 1.237.50 \$ 8.122.5 241172220033 21.1 LITH AVENUE NORTH CARLA S SILLANDRA 20.1 LITH AVENUE NORTH CARLA S SILLANDRA 20.1 LITH AVEN HOPKINS MT \$5343 \$ 5.666.00 \$ 1.425.00 \$ 1.237.50 \$ 8.122.5 241172220030 27.1 LITH AVENUE NORTH CARLA S SILLANDRA 20.1 LITH AVEN HOPKINS MT \$5343 \$ 5.666.00 \$ 1.425.00 \$ 1.237.50 \$ 8.122.5 241172220030 27.1 LITH AVENUE NORTH CARLA S SILLANDRA 20.1 LITH AVEN HOPKINS MT \$5343 \$ 5.666.00 \$ 1.425.00 \$ 1.237.50 \$ 8.122.5 241172220030 27.1 LITH AVENUE NORTH CARLA S SARAH SANDON 22.1 LITH AVEN HOPKINS MT \$5343 \$ 5.666.00 \$ 1.425.00 \$ 1.237.50 \$ 8.122.5 241172220030 27.1 LITH AVENUE NORTH CARLA S SARAH SANDON 22.1 LITH AVEN HOPKINS MT \$5343 \$ 5.666.00 \$ 1.425.00 \$ 1.237.50 \$ 8.122.5 241172220030 27.1 LITH AVENUE NORTH CARLA S SARAH SANDON 22.1 LITH AVEN HOPKINS MT \$5343 \$ 5.666.00 \$ 1.425.00 \$ 1.237.50 \$ 8.122.5 241172220030 27.1 LITH AVENUE NORTH CARLA S SARAH SANDON 22.1 LITH A | 2411722310070 | 140 11TH AVENUE NORTH | HOWARD R JOHNSON JR | 140 11TH AVE N | HOPKINS MN 55343 | \$ 5,247.36 | \$ 1,425.00 | \$ 1,237.50 | \$ 7,909.86 |
| ### 241172240058 200 111H AVENUE NORTH CHRISTOPHER DAY NELSON LISA MARIE NELSON 201 111H AVEN HOPKINS MM 55343 \$ 5.466.00 \$ 1.425.00 \$ 1.237.50 \$ 8.128.50 241172240035 205 111H AVENUE NORTH MARIAL BAILEY 205 111H AVEN HOPKINS MM 55343 \$ 5.466.00 \$ 1.425.00 \$ 1.237.50 \$ 8.128.50 2411722240037 209 11H AVENUE NORTH MARIAL BAILEY 205 111H AVEN HOPKINS MM 55343 \$ 5.466.00 \$ 1.425.00 \$ 1.237.50 \$ 8.128.50 2411722240037 209 11H AVENUE NORTH GREGORY W& BETH A MADSEN 209 111H AVEN HOPKINS MM 55343 \$ 5.466.00 \$ 1.425.00 \$ 1.237.50 \$ 8.128.50 2411722240038 201 11H AVENUE NORTH GREGORY W& BETH A MADSEN 209 11H AVEN HOPKINS MM 55343 \$ 5.466.00 \$ 1.425.00 \$ 1.237.50 \$ 8.128.50 2411722240038 201 11H AVENUE NORTH JOHN W. WOOD III AVENUE NORTH JOHN W. JOHN | | | | | | \$ 11,150.64 | 5 1.425.00 | | |
| 2411722240036 DS 111H AVENUE NORTH JOHANNA HEALEY 205 LITH AVEN HOPKINS NN 55343 \$ \$.466.00 \$ 1.425.00 \$ 1.237.50 \$ 8.128.5 \$ 241172240037 DS 111H AVENUE NORTH GREGORY W. & BETHA MADSEN 205 LITH AVEN HOPKINS NN 55343 \$ \$.466.00 \$ 1.425.00 \$ 1.237.50 \$ 8.128.5 \$ 241172240037 DS 111H AVENUE NORTH HOPKINS NN 55043 \$ \$ \$.466.00 \$ 1.425.00 \$ 1.237.50 \$ 8.128.5 \$ 241172240038 21 B11 H. AVENUE NORTH HOPKINS NN 55043 \$ \$ \$.466.00 \$ 1.425.00 \$ 1.237.50 \$ 8.128.5 \$ 241172240038 21 B11 H. AVENUE NORTH HOPKINS NN 55043 \$ \$ \$.466.00 \$ 1.425.00 \$ 1.237.50 \$ 8.128.5 \$ 241172240032 21 B1 H. AVENUE NORTH HOPKINS NN 55043 \$ \$ \$.466.00 \$ 1.425.00 \$ 1.237.50 \$ 8.128.5 \$ 241172240032 21 B1 H. AVENUE NORTH HOPKINS NN 55043 \$ \$ \$.466.00 \$ 1.425.00 \$ 1.237.50 \$ 8.128.5 \$ 241172240032 21 B1 H. AVENUE NORTH HOPKINS NN 55043 \$ \$ \$.466.00 \$ 1.425.00 \$ 1.237.50 \$ 8.128.5 \$ 241172240032 21 B1 H. AVENUE NORTH HOPKINS NN 55043 \$ \$ \$.466.00 \$ 1.425.00 \$ 1.237.50 \$ 8.128.5 \$ 241172240032 21 B1 H. AVENUE NORTH HOPKINS NN 55043 \$ \$ \$.466.00 \$ 1.425.00 \$ 1.237.50 \$ 8.128.5 \$ 24117224003 21 B1 H. AVENUE NORTH HOPKINS NN 55043 \$ \$ \$.466.00 \$ 1.425.00 \$ 1.237.50 \$ 8.128.5 \$ 24117224004 22 B1 H. AVENUE NORTH HOPKINS NN 55043 \$ \$ \$.466.00 \$ 1.425.00 \$ 1.237.50 \$ 8.128.5 \$ 24117224004 22 B1 H. AVENUE NORTH HOPKINS NN 55043 \$ \$ \$.466.00 \$ 1.425.00 \$ 1.237.50 \$ 8.128.5 \$ 24117224004 22 B1 H. AVENUE NORTH HOPKINS NN 55043 \$ \$ \$.466.00 \$ 1.425.00 \$ 1.237.50 \$ 8.128.5 \$ 24117224004 22 B1 H. AVENUE NORTH HOPKINS NN 55043 \$ \$ \$.466.00 \$ 1.425.00 \$ 1.237.50 \$ 8.128.5 \$ 24117224004 22 B1 H. AVENUE NORTH HOPKINS NN 55043 \$ \$ \$.466.00 \$ 1.425.00 \$ 1.237.50 \$ 8.128.5 \$ 24117224004 22 B1 H. AVENUE NORTH HOPKINS NN 55043 \$ \$ \$.466.00 \$ 1.425.00 \$ 1.237.50 \$ 8.128.5 \$ 24117224004 22 B1 H. AVENUE NORTH HOPKINS NN 55043 \$ \$ \$.466.00 \$ 1.425.00 \$ 1.237.50 \$ \$ 8.128.5 \$ 24117224004 22 B1 H. AVENUE NORTH HOPKINS NN 55043 \$ \$ \$.466.00 \$ 1.425.00 \$ 1.237.50 \$ \$ \$ \$.225.50 \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ | 2411722240056 | | | | | \$ 5,684,64 | | | \$ 834714 |
| 2411722240055 206 11TH AVENUE NORTH GREGORY WE BETH AMDSEN 209 11TH AVEN HOPKINS MN 55343 \$ 5,466.00 \$ 1,425.00 \$ 1,237.50 \$ 8,125.5 \$ 241172240054 210 11TH AVENUE NORTH OPKIN S MN 5543 \$ 5,466.00 \$ 1,425.00 \$ 1,237.50 \$ 8,125.5 \$ 241172240054 210 11TH AVENUE NORTH OPKIN S MN 5543 \$ 5,466.00 \$ 1,425.00 \$ 1,237.50 \$ 8,125.5 \$ 241172240053 215 11TH AVENUE NORTH OPKIN S MN 5543 \$ 5,466.00 \$ 1,425.00 \$ 1,237.50 \$ 8,125.5 \$ 241172240053 215 11TH AVENUE NORTH OFKIN S MN 5543 \$ 5,466.00 \$ 1,425.00 \$ 1,237.50 \$ 8,125.5 \$ 241172240053 215 11TH AVENUE NORTH OFKIN S MN 5543 \$ 5,466.00 \$ 1,425.00 \$ 1,237.50 \$ 8,125.5 \$ 2411722240053 215 11TH AVENUE NORTH OFKIN S MN 5543 \$ 5,466.00 \$ 1,425.00 \$ 1,237.50 \$ 8,125.5 \$ 2411722240053 215 11TH AVENUE NORTH OFKIN S MN 5543 \$ 5,466.00 \$ 1,425.00 \$ 1,237.50 \$ 8,125.5 \$ 2411722240059 212 11TH AVENUE NORTH OFKIN S MN 5543 \$ 1,205.50 \$ 1,425.00 \$ 1,237.50 \$ 1,425.00 \$ 1,237.50 \$ 1,445.50 \$ 1,237.50 \$ 1,237. | 2411722240035 | | CHRISTOPHER ADY NELSON LISA MARIE NELSON | | HOPKINS MN 55343 | \$ 5,466.00 | \$ 1,425.00 \$ 1,425.00 | \$ 1,237.50 \$ 1,237.50 | \$ 8,128.50 |
| 2411722240037 209 11TH AVENUE NORTH 20171 AVENUE NORTH 213 11TH AVENUE NORTH 20171 AVENUE | 2/11/222240020 | 201 11TH AVENUE NORTH | CARLA S SILLANPAA | 201 11TH AVE N | HOPKINS MN 55343 HOPKINS MN 55343 | \$ 5,466.00 \$ 5,466.00 | \$ 1,425.00 \$ 1,425.00 \$ 1,425.00 | \$ 1,237.50 \$ 1,237.50 \$ 1,237.50 | \$ 8,128.50 \$ 8,128.50 |
| 2411722240038 23 111TH AVENUE NORTH ONN W WOOD II 21 11TH AVEN HOPKINS MN 55343 \$ 5,465.00 \$ 1,425.00 \$ 1,237.50 \$ 8,122.5 241172240052 218 11TH AVENUE NORTH KRISTEN L WUBBELS 218 11TH AVEN HOPKINS MN 55343 \$ 5,465.00 \$ 1,425.00 \$ 1,237.50 \$ 8,122.5 2411722240052 22 11TH AVENUE NORTH KRISTEN L WUBBELS 218 11TH AVEN HOPKINS MN 55343 \$ 5,465.00 \$ 1,425.00 \$ 1,237.50 \$ 8,128.5 2411722240053 22 11TH AVENUE NORTH KRISTEN L WUBBELS 218 11TH AVEN HOPKINS MN 55343 \$ 12,025.20 \$ 1,425.00 \$ 1,237.50 \$ 8,128.5 2411722240051 22 11TH AVENUE NORTH KRISTEN L WUBBELS 218 11TH AVEN HOPKINS MN 55343 \$ 12,025.20 \$ 1,425.00 \$ 1,237.50 \$ 8,128.5 2411722240051 22 11TH AVENUE NORTH KOBERT J IS ALGQUELYN A CROOK 221 11TH AVEN HOPKINS MN 55343 \$ 4,919.40 \$ 1,425.00 \$ 1,237.50 \$ 7,581.9 2411722240060 225 11TH AVENUE NORTH ROBERT J IS ALGQUELYN A CROOK 227 11TH AVEN HOPKINS MN 55343 \$ 4,919.40 \$ 1,425.00 \$ 1,237.50 \$ 7,581.9 2411722240060 228 11TH AVENUE NORTH ROBERT J IS ALGQUELYN A CROOK 227 11TH AVEN HOPKINS MN 55343 \$ 4,919.40 \$ 1,425.00 \$ 1,237.50 \$ 7,581.9 2411722240060 228 11TH AVENUE NORTH PATRICK & SARAH SANDON 228 11TH AVEN HOPKINS MN 55343 \$ 5,466.00 \$ 1,425.00 \$ 1,237.50 \$ 8,126.5 2411722240040 228 11TH AVENUE NORTH DEBORAH B LUMBAR 229 11TH AVEN HOPKINS MN 55343 \$ 5,466.00 \$ 1,425.00 \$ 1,237.50 \$ 8,126.5 2411722240041 234 11TH AVENUE NORTH DEBORAH B LUMBAR 229 11TH AVEN HOPKINS MN 55343 \$ 5,466.00 \$ 1,425.00 \$ 1,237.50 \$ 8,126.5 2411722240042 234 11TH AVENUE NORTH DEBORAH B LUMBAR 229 11TH AVEN HOPKINS MN 55343 \$ 5,466.00 \$ 1,425.00 \$ 1,237.50 \$ 8,126.5 2411722240042 234 11TH AVENUE NORTH DEBORAH B LUMBAR 239 11TH AVEN HOPKINS MN 55343 \$ 5,466.00 \$ 1,425.00 \$ 1,237.50 \$ 8,126.5 2411722240042 234 11TH AVENUE NORTH DEBORAH B LUMBAR 239 11TH AVEN HOPKINS MN 55343 \$ 5,466.00 \$ 1,425.00 | | 201 11TH AVENUE NORTH 205 11TH AVENUE NORTH | CARLA S SILLANPAA MARIA L BAILEY JOHANNA HENJUM | 201 11TH AVE N 205 11TH AVE N | HOPKINS MN 55343 HOPKINS MN 55343 HOPKINS MN 55343 | \$ 5,466.00 \$ 5,466.00 \$ 5,466.00 \$ 5,466.00 | \$ 1,425.00 \$ 1,425.00 \$ 1,425.00 \$ 1,425.00 \$ 1,425.00 | \$ 1,237.50 \$ 1,237.50 \$ 1,237.50 \$ 1,237.50 | \$ 8,128.50 \$ 8,128.50 \$ 8,128.50 |
| 2411722240053 2.6 11TH AVENUE NORTH MAWYELL FORSTER 216 11TH AVEN HOPKINS MN 55343 \$ 5,466.00 \$ 1,425.00 \$ 1,237.50 \$ 8,128.5 \$ 2411722240053 2.2 11TH AVENUE NORTH KRISTEN L WUBBELS 218 11TH AVEN HOPKINS MN 55343 \$ 5,466.00 \$ 1,425.00 \$ 1,237.50 \$ 1,828.70 \$ 1,425.00 \$ 1,237.50 \$ 1,425.00 \$ 1,425 | 2411722240055 2411722240037 | 201 11TH AVENUE NORTH 205 11TH AVENUE NORTH 206 11TH AVENUE NORTH 209 11TH AVENUE NORTH | CARLA S SILLANPAA MARIIA L BAILEY JOHANNA HENJUM GREGORY W & BETH A MADSEN | 201 11TH AVE N 205 11TH AVE N 206 11TH AVE N 209 11TH AVE N | HOPKINS MN 55343 HOPKINS MN 55343 HOPKINS MN 55343 HOPKINS MN 55343 HOPKINS MN 55343 | \$ 5,466.00 \$ 5,466.00 \$ 5,466.00 \$ 5,466.00 \$ 5,466.00 | \$ 1,425.00 \$ 1,425.00 \$ 1,425.00 \$ 1,425.00 \$ 1,425.00 \$ 1,425.00 | \$ 1,237.50 \$ 1,237.50 \$ 1,237.50 \$ 1,237.50 \$ 1,237.50 \$ 1,237.50 | \$ 8,128.50 \$ 8,128.50 \$ 8,128.50 \$ 8,128.50 \$ 8,128.50 |
| 221 1171 AVENUE NORTH TERRENCE & BABBARA SWEENEY 221 1171 AVEN HOPKINS MN 55343 \$ 1,025.20 \$ 1,425.00 \$ 1,237.50 \$ 1,487.57 \$ 241772240037 222 1171 AVENUE NORTH FOREST J. B. JACQUELEYN A CROOK 222 1171 AVEN HOPKINS MN 55343 \$ 5,466.00 \$ 1,425.00 \$ 1,237.50 \$ 5,738.19 \$ 2417722240040 225 1171 AVENUE NORTH VINCENT A PAGLUCCI 225 1171 AVEN HOPKINS MN 55343 \$ 4,919.40 \$ 1,425.00 \$ 1,237.50 \$ 7,581.90 \$ 241772240040 227 1171 AVENUE NORTH ROBERT J. NOLL JR 227 1171 AVEN HOPKINS MN 55343 \$ 4,919.40 \$ 1,425.00 \$ 1,237.50 \$ 7,581.90 \$ 241772240040 223 1171 AVENUE NORTH BOBERT J. NOLL JR AVENUE NORTH BOBERT J. NOLL JR BOBERT J. JR JR JR BOBERT J. JR | 2411722240055 2411722240037 2411722240054 | 201 11TH AVENUE NORTH 205 11TH AVENUE NORTH 206 11TH AVENUE NORTH 209 11TH AVENUE NORTH 210 11TH AVENUE NORTH | CARLA S SILLANPAA MARIA L BAILEY JOHANNA HENJUM GREGORY W & BETH A MADSEN JOHN J MCGINTY REVOCABLE TRS ATTN: ROBEN HUNTER | 201 11TH AVE N 205 11TH AVE N 206 11TH AVE N 209 11TH AVE N 4470 W 78TH ST CIR STE 200 | HOPKINS MN 55343 HOPKINS MN 55343 HOPKINS MN 55343 HOPKINS MN 55343 HOPKINS MN 55343 BLOOMINGTON MN 55435 | \$ 5,466.00 \$ 5,466.00 \$ 5,466.00 \$ 5,466.00 \$ 5,466.00 \$ 5,466.00 | \$ 1,425.00 \$ 1,425.00 \$ 1,425.00 \$ 1,425.00 \$ 1,425.00 \$ 1,425.00 \$ 1,425.00 | \$ 1,237.50 \$ 1,237.50 \$ 1,237.50 \$ 1,237.50 \$ 1,237.50 \$ 1,237.50 \$ 1,237.50 | \$ 8,128.50 \$ 8,128.50 \$ 8,128.50 \$ 8,128.50 \$ 8,128.50 \$ 8,128.50 \$ 8,128.50 |
| 2211TH AVENUE NORTH NOBERT 1.8 LACQUELYN A CROOK 222 11TH AVEN HOPKINS MN 55343 \$ 5,466.00 \$ 1,425.00 \$ 1,237.50 \$ 7,581.9 | 2411722240055 2411722240037 2411722240054 2411722240038 2411722240053 | 201 11TH AVENUE NORTH 205 11TH AVENUE NORTH 206 11TH AVENUE NORTH 209 11TH AVENUE NORTH 210 11TH AVENUE NORTH 213 11TH AVENUE NORTH 216 11TH AVENUE NORTH | CARLA S SILANPAA MARIAL BAILEY JOHANNA HENIUM GREGORY W & BETH A MADSEN JOHN J MEGINTY REVOCABLE TRS ATTN: ROBEN HUNTER JOHN W WOOD III MAXWELJ J FORSTER | 201 11TH AVE N 205 11TH AVE N 206 11TH AVE N 209 11TH AVE N 4470 W 78TH ST CIR STE 200 213 11TH AVE N 216 11TH AVE N | HOPKINS MN 55343 HOPKINS MN 55343 HOPKINS MN 55343 HOPKINS MN 55343 HOPKINS MN 55343 BLOOMINGTON MN 55435 HOPKINS MN 55343 HOPKINS MN 55343 HOPKINS MN 55343 | \$ 5,466.00 \$ 5,466.00 \$ 5,466.00 \$ 5,466.00 \$ 5,466.00 \$ 5,466.00 \$ 5,466.00 \$ 5,466.00 | \$ 1,425.00 \$ 1,425.00 \$ 1,425.00 \$ 1,425.00 \$ 1,425.00 \$ 1,425.00 \$ 1,425.00 \$ 1,425.00 \$ 1,425.00 \$ 1,425.00 | \$ 1,237.50 \$ 1,237.50 \$ 1,237.50 \$ 1,237.50 \$ 1,237.50 \$ 1,237.50 \$ 1,237.50 \$ 1,237.50 \$ 1,237.50 | \$ 8,128.50 \$ 8,128.50 \$ 8,128.50 \$ 8,128.50 \$ 8,128.50 \$ 8,128.50 \$ 8,128.50 \$ 8,128.50 |
| 241172240040 225 11TH AVENUE NORTH NICENT A PAQUUCCI 225 11TH AVEN HOPKINS MN 55343 \$ 4,919.40 \$ 1,425.00 \$ 1,237.50 \$ 7,581.9 241172240050 228 11TH AVENUE NORTH PATRICK & SARAH SANDON 228 11TH AVEN HOPKINS MN 55343 \$ 5,466.00 \$ 1,425.00 \$ 1,237.50 \$ 7,581.9 241172240040 232 11TH AVENUE NORTH DEBORAH B LUMBAR 232 11TH AVEN HOPKINS MN 55343 \$ 5,466.00 \$ 1,425.00 \$ 1,237.50 \$ 8,128.51 241172240040 233 11TH AVENUE NORTH DEBORAH B LUMBAR 232 11TH AVEN HOPKINS MN 55343 \$ 5,466.00 \$ 1,425.00 \$ 1,237.50 \$ 8,128.51 241172240040 233 11TH AVENUE NORTH DEBORAH B LUMBAR 232 11TH AVEN HOPKINS MN 55343 \$ 5,466.00 \$ 1,425.00 \$ 1,237.50 \$ 8,128.51 241172240040 233 11TH AVENUE NORTH DIAN P B JULE TROMBLEY 234 11TH AVEN HOPKINS MN 55343 \$ 5,466.00 \$ 1,425.00 \$ 1,237.50 \$ 8,128.51 241172240040 234 11TH AVENUE NORTH JOHN P B JULE TROMBLEY 234 11TH AVEN HOPKINS MN 55343 \$ 5,466.00 \$ 1,425.00 \$ 1,237.50 \$ 8,128.51 241172240047 238 11TH AVENUE NORTH JOHN P B JULE TROMBLEY 234 11TH AVEN HOPKINS MN 55343 \$ 5,466.00 \$ 1,425.00 \$ 1,237.50 \$ 8,128.51 241172240040 234 11TH AVENUE NORTH JOHN P B JULE TROMBLEY 234 11TH AVEN HOPKINS MN 55343 \$ 5,466.00 \$ 1,425.00 \$ 1,237.50 \$ 8,128.51 241172240040 234 11TH AVENUE NORTH JOHN P B JULE TROMBLEY 234 11TH AVEN HOPKINS MN 55343 \$ 7,652.40 \$ 1,425.00 \$ 1,237.50 | 2411722240055 2411722240037 2411722240054 2411722240038 2411722240053 2411722240052 | 201 11TH AVENUE NORTH 205 11TH AVENUE NORTH 206 11TH AVENUE NORTH 209 11TH AVENUE NORTH 210 11TH AVENUE NORTH 213 11TH AVENUE NORTH 213 11TH AVENUE NORTH 218 11TH AVENUE NORTH 218 11TH AVENUE NORTH | CARLA S SILANPAA MARIA L BAILEY JOHANNA HENJUM GREGORY W & BETH A MADSEN JOHN J MCGINTY REVOCABLE TRS ATTN: ROBEN HUNTER JOHN W WOOD III MAXWELL J FORSTER KRISTEN L WUBBELS | 201 11TH AVE N 205 11TH AVE N 206 11TH AVE N 206 11TH AVE N 209 11TH AVE N 4470 W 78TH ST CIR STE 200 213 11TH AVE N 218 11TH AVE N | HOPKINS MM 55343 BLOOMINGTON MM 55435 HOPKINS MM 55343 HOPKINS MM 55343 HOPKINS MM 55343 | \$ 5,466.00 \$ 5,466.00 \$ 5,466.00 \$ 5,466.00 \$ 5,466.00 \$ 5,466.00 \$ 5,466.00 \$ 5,466.00 \$ 5,466.00 | \$ 1,425.00 \$ 1,425.00 | \$ 1,237.50 \$ 1,237.50 \$ 1,237.50 \$ 1,237.50 \$ 1,237.50 \$ 1,237.50 \$ 1,237.50 \$ 1,237.50 \$ 1,237.50 \$ 1,237.50 | \$ 8,128.50 \$ 8,128.50 \$ 8,128.50 \$ 8,128.50 \$ 8,128.50 \$ 8,128.50 \$ 8,128.50 \$ 8,128.50 \$ 8,128.50 |
| 2411722240030 228 11TH AVENUE NORTH | 2411722240055 2411722240037 2411722240054 2411722240038 2411722240053 2411722240052 2411722240039 2411722240051 | 201 11TH AVENUE NORTH 205 11TH AVENUE NORTH 205 11TH AVENUE NORTH 209 11TH AVENUE NORTH 209 11TH AVENUE NORTH 213 11TH AVENUE NORTH 213 11TH AVENUE NORTH 213 11TH AVENUE NORTH 218 11TH AVENUE NORTH 221 11TH AVENUE NORTH 222 11TH AVENUE NORTH | CARLA S SILANPAA MARIA L BAILEY JOHANNA HENJUM GREGORY W & BETH A MADSEN JOHN J MCGINTY REVOCABLE TRS ATTN: ROBEN HUNTER JOHN W WOOD III MAXWELL FORSTER KRISTEN L WUBBELS TERRENCE & BARBARA SWEENEY ROBERT J & LOQULEYN A CROOK | 201 11TH AVE N 205 11TH AVE N 206 11TH AVE N 209 11TH AVE N 209 11TH AVE N 213 11TH AVE N 213 11TH AVE N 218 11TH AVE N 218 11TH AVE N 221 11TH AVE N | HOPKINS MN 55343 BLOOMINGTON MN 55435 BLOOMINGTON MN 55435 HOPKINS MN 55343 | \$ 5,466.00 \$ 5,466.00 \$ 5,466.00 \$ 5,466.00 \$ 5,466.00 \$ 5,466.00 \$ 5,466.00 \$ 5,466.00 \$ 12,025.20 \$ 5,466.00 | \$ 1,425.00 \$ 1,425.00 | \$ 1,237.50 \$ 1,237.50 | \$ 8,128.50 \$ 8,128.50 \$ 8,128.50 \$ 8,128.50 \$ 8,128.50 \$ 8,128.50 \$ 8,128.50 \$ 8,128.50 \$ 8,128.50 \$ 14,687.70 |
| 241172240049 231 1TH AVENUE NORTH CERORAH B LUMBAR 231 1TH AVEN HOPKINS MN 55343 \$ 5,466.00 \$ 1,425.00 \$ 1,237.50 \$ 8,128.50 \$ 1,475.00 \$ 1,237.50 \$ 8,128.50 \$ 1,475.00 \$ 1,237.50 \$ 8,128.50 \$ 1,475.00 \$ 1,237.50 \$ 8,128.50 \$ 1,475.00 \$ 1,237.50 \$ 8,128.50 \$ 1,475.00 \$ 1,237.50 \$ 8,128.50 \$ 1,475.00 \$ 1,237.50 \$ 8,128.50 \$ 1,475.00 \$ 1,237.50 \$ 8,128.50 \$ 1,475.00 \$ 1,237.50 \$ 8,128.50 \$ 1,475.00 \$ 1,237.50 \$ 8,128.50 \$ 1,237.50 \$ 8,128.50 \$ 1,237.50 \$ 8,128.50 \$ 1,237.50 \$ 8,128.50 \$ 1,237.50 \$ 8,128.50 \$ 1,237.50 \$ 8,128.50 \$ 1,237.50 \$ 8,128.50 \$ 1,237.50 \$ 8,128.50 \$ 1,237.50 \$ 8,128.50 \$ 1,237.50 \$ 8,128.50 \$ 1,237.50 \$ 8,128.50 \$ 1,237.50 \$ 8,128.50 \$ 1,237.50 \$ 8,128.50 \$ 1,237.50 \$ 8,128.50 \$ 1,237.50 \$ 8,128.50 \$ 8 | 2411722240055 2411722240037 2411722240054 2411722240053 2411722240052 2411722240052 2411722240039 2411722240051 2411722240040 | 201 11TH AVENUE NORTH 205 11TH AVENUE NORTH 205 11TH AVENUE NORTH 209 11TH AVENUE NORTH 209 11TH AVENUE NORTH 210 11TH AVENUE NORTH 213 11TH AVENUE NORTH 216 11TH AVENUE NORTH 218 11TH AVENUE NORTH 221 11TH AVENUE NORTH 221 11TH AVENUE NORTH 225 11TH AVENUE NORTH 225 11TH AVENUE NORTH | CARLA S SILANPAA MARIA L BAILEY JOHANNA HENJUM GREGORY W & BETH A MADSEN JOHN J MCGINTY REVOCABLE TRS ATTN: ROBEN HUNTER JOHN W WOOD III MAXWELL J FORSTER KRISTEN L WUBBELS TERRENCE & BARBARA SWEENEY ROBERT J & JACQUELYN A CROOK VINCENT A PAOLUCCI | 201 11TH AVE N 205 11TH AVE N 205 11TH AVE N 206 11TH AVE N 209 11TH AVE N 4470 W 78TH ST CIR STE 200 213 11TH AVE N 216 11TH AVE N 211 11TH AVE N 221 11TH AVE N 222 11TH AVE N 225 11TH AVE N | HOPKINS MN 53443 HOPKINS MN 53443 HOPKINS MN 53434 HOPKINS MN 53434 HOPKINS MN 53434 HOPKINS MN 53434 BLOOMINGTON MN 55445 HOPKINS MN 53434 | \$ 5,466.00 \$ 5,469.00 \$ 5,469.00 \$ 5,469.00 | \$ 1,425.00 \$ 1,425.00 | \$ 1,237.50 \$ 1,237.50 | \$ 8,128.50 \$ 7,581.90 |
| 2411712240048 234 11TH AVENUE NORTH OIN P & JULIE TROMBIEY 234 11TH AVEN O HOPKINS MN 55343 \$ 5,466.00 \$ 1,425.00 \$ 1,237.50 \$ 8,128.55 | 2411722240055 2411722240037 2411722240054 2411722240053 2411722240052 2411722240052 2411722240039 2411722240051 2411722240040 2411722240041 | 201 11TH AVENUE NORTH 205 11TH AVENUE NORTH 206 11TH AVENUE NORTH 209 11TH AVENUE NORTH 209 11TH AVENUE NORTH 213 11TH AVENUE NORTH 213 11TH AVENUE NORTH 213 11TH AVENUE NORTH 218 11TH AVENUE NORTH 218 11TH AVENUE NORTH 222 11TH AVENUE NORTH 222 11TH AVENUE NORTH 227 11TH AVENUE NORTH | CARLA S SILLANPAA MARIA L BAILEY JOHANNA HENJUM GREGORY W & BETH A MADSEN JOHN J MGGINTY REVOCABLE TRS ATTN: ROBEN HUNTER JOHN W WOOD III MAXWELL J FORSTER KRISTEN L WUBBELS TERRENCE & BARBARA SWEENEY ROBERT J & JACQUELYN A CROOK VINCENT A PAOLUCG | 201 11TH AVE N 205 11TH AVE N 206 11TH AVE N 209 11TH AVE N 209 11TH AVE N 209 11TH AVE N 201 11TH AVE N 213 11TH AVE N 213 11TH AVE N 218 11TH AVE N 212 11TH AVE N 222 11TH AVE N 222 11TH AVE N | HOPKINS MN S5343 BLOOMINGTON MN S5343 HOPKINS MN S5344 HOPKINS MN S5344 HOPKINS MN S5343 | \$ 5,466.00 \$ 5,466.00 \$ 5,466.00 \$ 5,466.00 \$ 5,466.00 \$ 5,466.00 \$ 5,466.00 \$ 5,466.00 \$ 5,466.00 \$ 12,025.20 \$ 4,919.40 \$ 4,919.40 | \$ 1,425.00 \$ 1,425.00 | \$ 1,237,50 \$ 1,237,50 | \$ 8,128.50 \$ 7,581.90 |
| 231 11TH AVENUE NORTH | 2411722240055 2411722240054 2411722240058 2411722240058 2411722240052 2411722240052 2411722240051 2411722240040 2411722240040 2411722240040 2411722240050 | 201 11TH AVENUE NORTH 205 11TH AVENUE NORTH 205 11TH AVENUE NORTH 206 11TH AVENUE NORTH 209 11TH AVENUE NORTH 213 11TH AVENUE NORTH 213 11TH AVENUE NORTH 213 11TH AVENUE NORTH 218 11TH AVENUE NORTH 212 11TH AVENUE NORTH 222 11TH AVENUE NORTH 227 11TH AVENUE NORTH 227 11TH AVENUE NORTH 228 11TH AVENUE NORTH 228 11TH AVENUE NORTH 228 11TH AVENUE NORTH | CARLA S SILLANPAA MARIA L BAILEY JOHANNA HENJUM GREGORY W & BETH A MADSEN JOHN J MGGINTY REVOCABLE TRS ATTN: ROBEN HUNTER JOHN W WOOD III MAXWELL J FORSTER KRISTEN L WUBBELS TERRENCE & BARBARA SWEENEY ROBERT J & JACQUELYN A CROOK VINCENT A PAOLUCCI ROBERT J NOLLUR PATRICK & SARAH SANDON DEBORAH B LUMBAR | 201 11TH AVE N 205 11TH AVE N 206 11TH AVE N 209 11TH AVE N 209 11TH AVE N 209 11TH AVE N 201 11TH AVE N 201 11TH AVE N 218 11TH AVE N 218 11TH AVE N 218 11TH AVE N 222 11TH AVE N 222 11TH AVE N 225 11TH AVE N 225 11TH AVE N 228 11TH AVE N | HOPKINS MN S5343 BLOOMINGTON MN S5445 HOPKINS MN S5343 | \$ 5,466.00 \$ 5,466.00 | \$ 1,425.00 \$ 1,425.00 | \$ 1,237.50 \$ 1,237.50 | \$ 8,128.50 \$ 14,687.70 \$ 7,581.90 \$ 7,581.90 \$ 8,128.50 \$ 8,128.50 |
| 2411722240047 238 11TH AVENUE NORTH ALEXANDER BLIXRUD MORGAN ELLIOTT 238 11TH AVEN HOPKINS MN 55343 \$ 7,652.40 \$ 1,425.00 \$ 1,237.50 \$ 1,031.49 2411722240046 241 11TH AVENUE NORTH JOAN MEATH 241 11TH AVEN HOPKINS MN 55343 \$ 4,919.40 \$ 1,425.00 \$ 1,237.50 \$ 7,581.90 2411722240046 244 11TH AVENUE NORTH LUCY ARIMOND 244 11TH AVEN HOPKINS MN 55343 \$ 7,215.12 \$ 1,425.00 \$ 1,237.50 \$ 9,877.6 2411722240013 245 11TH AVENUE NORTH LUCY ARIMOND 244 11TH AVEN HOPKINS MN 55343 \$ 4,482.12 \$ 1,425.00 \$ 1,237.50 \$ 7,244.6 2411722240137 301 11TH AVENUE NORTH LUSA BAILEY & ETHAN YANNA 4820 MINNETONNA BLVDE 1 \$ 1,005 PARK MN 55416 \$ 1,455.00 \$ 1,237.50 \$ 7,244.6 2411722240115 302 11TH AVENUE NORTH LURBEN LEF & ETHAN YANNA 4820 MINNETONNA BLVDE 1 \$ 1,005 PARK MN 55416 \$ 1,455.00 \$ 1,237.50 \$ 7,244.6 2411722240115 302 11TH AVENUE NORTH LAUREN LEF NORTH LAUREN | 2411722240052 2411722240054 2411722240054 2411722240053 2411722240053 2411722240053 2411722240051 2411722240051 2411722240041 2411722240041 2411722240050 2411722240050 2411722240050 | 201 11TH AVENUE NORTH 205 11TH AVENUE NORTH 206 11TH AVENUE NORTH 209 11TH AVENUE NORTH 209 11TH AVENUE NORTH 210 11TH AVENUE NORTH 213 11TH AVENUE NORTH 213 11TH AVENUE NORTH 214 11TH AVENUE NORTH 221 11TH AVENUE NORTH 222 11TH AVENUE NORTH 225 11TH AVENUE NORTH 225 11TH AVENUE NORTH 225 11TH AVENUE NORTH 226 11TH AVENUE NORTH 227 11TH AVENUE NORTH 232 11TH AVENUE NORTH 232 11TH AVENUE NORTH | CARLA S SILANPAA MARIA L BAILEY JOHANNA HENJUM GREGORY W & BETH A MADSEN JOHN J MCGINTY REVOCABLE TRS ATTN: ROBEN HUNTER JOHN W WOOD III MAXWELL J FORSTER KRISTEN L WUBBELS TERRENCE & BARBARA SWEENEY ROBERT J & LACQUELIYN A CROOK WINCENT A PAOLUCCI PATRICK & SARAH SANDON DEBORAH B LUMBAR | 201 11TH AVE N 205 11TH AVE N 206 11TH AVE N 209 11TH AVE N 209 11TH AVE N 209 11TH AVE N 209 11TH AVE N 213 11TH AVE N 218 11TH AVE N 218 11TH AVE N 221 11TH AVE N 222 11TH AVE N 225 11TH AVE N 225 11TH AVE N 225 11TH AVE N 228 11TH AVE N 228 11TH AVE N 228 11TH AVE N 231 11TH AVE N | HOPKINS MN 53443 HOPKINS MN 53443 HOPKINS MN 55343 | \$ 5,466.00 \$ 5,466.00 | \$ 1,425.00 \$ 1,425.00 | \$ 1,237.50 \$ 1,237.50 | \$ 8,128.50 \$ 8,128.50 \$ 8,128.50 \$ 8,128.50 \$ 8,128.50 \$ 8,128.50 \$ 8,128.50 \$ 8,128.50 \$ 8,128.50 \$ 14,687.70 \$ 14,687.70 \$ 7,581.90 \$ 7,581.9 |
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| 2411722240115 302 11TH AVENUE NORTH LAUREN PENNY 302 11TH AVEN HOPKINS MIN 55343 \$ 5,466.00 \$ 1,425.00 \$ 1,237.50 \$ 8,128.50 \$ 2411722240113 305 11TH AVENUE NORTH HOPKINS MIN 55343 \$ 1,455.04 \$ 1,425.00 \$ 1,237.50 \$ 8,128.51 \$ 2411722240113 305 11TH AVENUE NORTH NATHAN A RIGGS EMILY A RIGGS 305 11TH AVEN HOPKINS MIN 55243 \$ 5,466.00 \$ 1,425.00 \$ 1,237.50 \$ 8,128.51 \$ 2411722240113 305 11TH AVENUE NORTH GAYLE E BARKER 309 11TH AVEN HOPKINS MIN 55243 \$ 1,459.04 \$ 1,425.00 \$ 1,237.50 \$ 4,121.51 \$ 2411722240113 312 11TH AVENUE NORTH MML PROPERTIES LIC 360 NORTHOME RD DEEPHAVEN MIN 55391 \$ 8,199.00 \$ 1,425.00 \$ 1,237.50 \$ 4,121.51 \$ 2411722240140 315 11TH AVENUE NORTH MOVID A ZAK 315 11TH AVEN HOPKINS MIN 55343 \$ 1,459.04 \$ 1,425.00 \$ 1,237.50 \$ 4,121.51 \$ 2411722240113 312 11TH AVENUE NORTH MOVID A ZAK 315 11TH AVEN HOPKINS MIN 55343 \$ 1,459.04 \$ 1,425.00 \$ 1,237.50 \$ 4,121.51 \$ 2411722240113 312 11TH AVENUE NORTH SUSAN KAYE HARRIS 318 11TH AVEN HOPKINS MIN 55343 \$ 1,459.04 \$ 1,425.00 \$ 1,237.50 \$ 4,121.51 \$ 2411722240113 312 11TH AVENUE NORTH SUSAN KAYE HARRIS 318 11TH AVEN HOPKINS MIN 55343 \$ 1,459.04 \$ 1,425.00 \$ 1,237.50 \$ 1,23 | 2411722240053 2411722240053 2411722240054 2411722240053 2411722240053 2411722240053 2411722240053 2411722240039 2411722240040 2411722240040 2411722240049 2411722240049 2411722240049 2411722240049 2411722240049 2411722240049 2411722240049 2411722240049 2411722240049 2411722240049 | 201 11TH AVENUE NORTH 205 11TH AVENUE NORTH 206 11TH AVENUE NORTH 209 11TH AVENUE NORTH 209 11TH AVENUE NORTH 213 11TH AVENUE NORTH 213 11TH AVENUE NORTH 213 11TH AVENUE NORTH 213 11TH AVENUE NORTH 218 11TH AVENUE NORTH 218 11TH AVENUE NORTH 222 11TH AVENUE NORTH 225 11TH AVENUE NORTH 225 11TH AVENUE NORTH 228 11TH AVENUE NORTH 233 11TH AVENUE NORTH 233 11TH AVENUE NORTH 237 11TH AVENUE NORTH 237 11TH AVENUE NORTH 238 11TH AVENUE NORTH | CARLA S SILLANPAA MARIA L BAILEY JOHANNA HENJUM GREGORY W & BETH A MADSEN JOHN J MGGINTY REVOCABLE TRS ATTN: ROBEN HUNTER JOHN W WOOD III MAXWELL J FORSTER KRISTEN L WUBBELS TERRENCE & BARBARA SWEENEY ROBERT J & JACQUELYN A CROOK VINCENT A PAOLUCCI ROBERT J NOLLUCI PATRICK & SARAH SANDON DEBORAH B LUIMBAR ETHAN ROBERT KASSNER JACQUELINE SUZANNE WENDEL JOHN P & JUILE TROMBLEY MARK T WANNE ALEXANDER BUJKRUD MORGAN ELLIOTT JOAN MEATH | 201 11TH AVE N 205 11TH AVE N 206 11TH AVE N 209 11TH AVE N 209 11TH AVE N 209 11TH AVE N 209 11TH AVE N 201 11TH AVE N 213 11TH AVE N 213 11TH AVE N 218 11TH AVE N 218 11TH AVE N 222 11TH AVE N 222 11TH AVE N 225 11TH AVE N 228 11TH AVE N 228 11TH AVE N 238 11TH AVE N 231 11TH AVE N | HOPKINS MN S5343 BLOOMINGTON MN S5445 HOPKINS MN S5343 | \$ 5,466.00 \$ 5,466.00 \$ 5,466.00 \$ 5,466.00 \$ 5,466.00 \$ 5,466.00 \$ 5,466.00 \$ 5,466.00 \$ 5,466.00 \$ 12,025.00 \$ 1 | \$ 1,425.00 \$ 1,425.00 | \$ 1,237,50 \$ 1,237,50 | \$ 8,128.50 \$ 8,128.50 \$ 8,128.50 \$ 8,128.50 \$ 8,128.50 \$ 8,128.50 \$ 8,128.50 \$ 8,128.50 \$ 8,128.50 \$ 8,128.50 \$ 8,128.50 \$ 14,687.50 \$ 14,687.50 \$ 7,581.90 \$ 7,581.90 \$ 8,128.50 \$ 8,128.50 \$ 8,128.50 \$ 8,128.50 \$ 7,581.90 \$ 7,581.90 \$ 1,128.50 \$ 8,128.50 \$ 8,128.50 \$ 8,128.50 \$ 8,128.50 \$ 8,128.50 \$ 1,128.5 |
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| 2411722240113 318 11TH AVENUE NORTH UNSAN KAYE HARRIS 318 11TH AVEN HOPKINS MIN 55343 \$ 8,99.00 \$ 1,425.00 \$ 1,237.50 \$ 1,085.15 \$ 1,085.15 \$ 1,247.50 \$ | 2411722240037 2411722240053 2411722240053 2411722240053 2411722240053 2411722240053 2411722240039 2411722240039 2411722240040 2411722240040 2411722240040 2411722240048 2411722240048 2411722240048 2411722240048 2411722240048 2411722240048 2411722240048 2411722240048 2411722240048 2411722240048 2411722240048 2411722240048 2411722240116 2411722240116 2411722240116 | 201 11TH AVENUE NORTH 205 11TH AVENUE NORTH 206 11TH AVENUE NORTH 209 11TH AVENUE NORTH 209 11TH AVENUE NORTH 209 11TH AVENUE NORTH 213 11TH AVENUE NORTH 213 11TH AVENUE NORTH 213 11TH AVENUE NORTH 213 11TH AVENUE NORTH 218 11TH AVENUE NORTH 222 11TH AVENUE NORTH 225 11TH AVENUE NORTH 225 11TH AVENUE NORTH 225 11TH AVENUE NORTH 228 11TH AVENUE NORTH 231 11TH AVENUE NORTH 231 11TH AVENUE NORTH 231 11TH AVENUE NORTH 237 11TH AVENUE NORTH 238 11TH AVENUE NORTH 238 11TH AVENUE NORTH 241 11TH AVENUE NORTH 242 11TH AVENUE NORTH 243 11TH AVENUE NORTH 245 11TH AVENUE NORTH 251 11TH AVENUE NORTH 261 11TH AVENUE NORTH 261 11TH AVENUE NORTH 262 11TH AVENUE NORTH 263 11TH AVENUE NORTH 263 11TH AVENUE NORTH 265 11TH AVENUE NORTH 265 11TH AVENUE NORTH 266 11TH AVENUE NORTH 267 11TH AVENUE NORTH 267 11TH AVENUE NORTH 268 11TH AVENUE NORTH 268 11TH AVENUE NORTH 269 21 11TH AVENUE NORTH 269 21 11TH AVENUE NORTH | CARLA S SILLANPAA MARIA L BAILEY JOHANNA HENJUM GREGORY W & BETH A MADSEN JOHN J MGGINTY REVOCABLE TRS ATTN: ROBEN HUNTER JOHN W WOOD BII MAXWELL J FORSTER KRISTEN L WUBBELS TERRENCE & BARBARA SWEENEY ROBERT J & JACQUELYN A CROOK VINCENT A PAOLUCCI ROBERT J SILLIMBAR ETHAN ROBERT KASSNER JACQUELINE SUZANNE WENDEL JOHN P B JULIE TROMBLEY MARK T WARNE ALEXANDER BILKRUD MORGAN ELLIOTT JOAN MEATH LUCY ARIMOND DAVID L& KAREN A ALBRIGHT LUSA BAILEY & ETHAN YANNA LAUREN L PENNY JENNIFER A ALLARD NATHAN A RIGGS EMILY A RIGGS GAVILE BABRKER | 201 11TH AVE N 205 11TH AVE N 206 11TH AVE N 209 11TH AVE N 209 11TH AVE N 209 11TH AVE N 209 11TH AVE N 201 11TH AVE N 213 11TH AVE N 213 11TH AVE N 218 11TH AVE N 218 11TH AVE N 222 11TH AVE N 222 11TH AVE N 225 11TH AVE N 225 11TH AVE N 227 11TH AVE N 228 11TH AVE N 233 11TH AVE N 233 11TH AVE N 233 11TH AVE N 234 11TH AVE N 241 11TH AVE N 241 11TH AVE N 242 11TH AVE N 244 11TH AVE N 245 11TH AVE N 246 11TH AVE N 247 11TH AVE N 248 11TH AVE N 249 11TH AVE N 240 11TH AVE N 241 11TH AVE N 241 11TH AVE N 241 11TH AVE N 241 11TH AVE N 242 11TH AVE N 243 11TH AVE N 245 11TH AVE N 245 11TH AVE N 247 11TH AVE N 248 11TH AVE N 249 11TH AVE N 249 11TH AVE N 240 11TH AVE N 240 11TH AVE N 241 11TH AVE N | HOPKINS MN 53434 BLOOMINGTON MN 55435 HOPKINS MN 5343 HOPKINS MN 53434 HOPKINS MN 53435 HOPKINS MN 53434 | \$ 5,466.00 \$ 5,466.00 \$ 5,466.00 \$ 5,466.00 \$ 5,466.00 \$ 5,466.00 \$ 5,466.00 \$ 5,466.00 \$ 5,466.00 \$ 5,466.00 \$ 5,466.00 \$ 5,466.00 \$ 5,466.00 \$ 5,466.00 \$ 5,466.00 \$ 6,4919.40 \$ 7,4919. | \$ 1,425.00 | \$ 1,237,50 \$ 1,237,50 | \$ 8,128.50 \$ 8,128.50 \$ 8,128.50 \$ 8,128.50 \$ 8,128.50 \$ 8,128.50 \$ 8,128.50 \$ 8,128.50 \$ 8,128.50 \$ 8,128.50 \$ 14,687.50 \$ 14,687.50 \$ 14,687.50 \$ 3,128.50 \$ 7,581.90 \$ 7,581.90 \$ 8,128.50 \$ 8,128.50 \$ 8,128.50 \$ 7,581.90 \$ 7,581.90 \$ 7,581.90 \$ 9,377.50 \$ 8,128.50 \$ 8,128.50 \$ 8,128.50 \$ 8,128.50 \$ 8,128.50 \$ 8,128.50 \$ 8,128.50 \$ 8,128.50 \$ 8,128.50 \$ 8,128.50 \$ 8,128.50 \$ 8,128.50 \$ 8,128.50 \$ 8,128.50 \$ 8,128.50 \$ 8,128.50 \$ 8,128.50 \$ 8,128.50 \$ 9,377.62 \$ 7,744.62 \$ 7,744.62 \$ 7,144.62 \$ 7,144.62 \$ 1,144. |
| 2411722240142 321 11TH AVENUE NORTH CHRIS JOHN REED & LINDA REED 321 11TH AVEN HOPKINS MN 55343 \$ 1,459.04 \$ 1,235.00 \$ 1,237.50 \$ 4,215.5 2411722240112 322 11TH AVENUE NORTH WENDY M DORN 322 11TH AVEN HOPKINS MN 55343 \$ 5,684.64 \$ 1,425.00 \$ 1,237.50 \$ 8,347.1 | 2411722240053 2411722240053 2411722240053 2411722240053 2411722240053 2411722240053 2411722240039 2411722240039 2411722240040 2411722240040 2411722240040 2411722240040 2411722240040 2411722240040 2411722240040 2411722240040 2411722240040 2411722240040 2411722240040 2411722240040 2411722240040 2411722240040 2411722240040 2411722240104 2411722240104 2411722240104 2411722240116 2411722240118 | 201 11TH AVENUE NORTH 205 11TH AVENUE NORTH 206 11TH AVENUE NORTH 209 11TH AVENUE NORTH 209 11TH AVENUE NORTH 209 11TH AVENUE NORTH 213 11TH AVENUE NORTH 213 11TH AVENUE NORTH 213 11TH AVENUE NORTH 213 11TH AVENUE NORTH 218 11TH AVENUE NORTH 221 11TH AVENUE NORTH 222 11TH AVENUE NORTH 222 11TH AVENUE NORTH 223 11TH AVENUE NORTH 233 11TH AVENUE NORTH 231 11TH AVENUE NORTH 230 11TH AVENUE NORTH 301 11TH AVENUE NORTH 305 11TH AVENUE NORTH 305 11TH AVENUE NORTH 305 11TH AVENUE NORTH 306 11TH AVENUE NORTH 307 11TH AVENUE NORTH 308 11TH AVENUE NORTH 309 11TH AVENUE NORTH 309 11TH AVENUE NORTH 309 11TH AVENUE NORTH 309 11TH AVENUE NORTH 301 11TH AVENUE NORTH | CARLA S SILLANPAA MARIA L BAILEY JOHANNA HENJUM GREGORY W & BETH A MADSEN JOHN J MCGINTY REVOCABLE TRS ATTN: ROBEN HUNTER JOHN W WOOD BII MAXWELL J FORSTER KRISTEN L WUBBELS TERRENCE & BARBARA SWEENEY ROBERT J & JACQUELYN A CROOK VINCENT A PAOLUCCI ROBERT J & JACQUELYN A CROOK VINCENT A PAOLUCCI PATRICK & SARAH SANDON DEGORAH B LUMBAR ETHAN ROBERT KASSNER JACQUELINE SUZANNE WENDEL JOHN P B JULU ET ROMBLEY MARK T WARNE ALEXANDER BLIXTUD MORGAN ELLIOTT JOAN MEATH LUCY ARIMOND JOAN MEATH LUCY ARIMOND JOAN WE STHAN YANNA LUJREN L PENNY JENNIFER A ALLABD NATHANA RIGGS EMILY A RIGGS GAYLE E BARKER MML PROPERTIES LLC DAWID L& KAREN MAR PROPERTIES LLC DAWID SARKER MML PROPERTIES LLC DAWID SARKER | 201 11TH AVE N 205 11TH AVE N 206 11TH AVE N 206 11TH AVE N 209 11TH AVE N 209 11TH AVE N 209 11TH AVE N 201 11TH AVE N 213 11TH AVE N 213 11TH AVE N 218 11TH AVE N 218 11TH AVE N 222 11TH AVE N 222 11TH AVE N 222 11TH AVE N 223 11TH AVE N 233 11TH AVE N 233 11TH AVE N 234 11TH AVE N 231 11TH AVE N 230 11TH AVE N 305 11TH AVE N 305 11TH AVE N 306 11TH AVE N 306 11TH AVE N 307 11TH AVE N 307 11TH AVE N 308 11TH AVE N 309 11TH AVE N | HOPKINS MN 55343 BLOOMINGTON MN 55343 HOPKINS MN 55343 | \$ 5,466.00 \$ 5,466.00 | \$ 1,425.00 | \$ 1,237,50 | \$ 8,128.50 \$ 8,128.50 \$ 8,128.50 \$ 8,128.50 \$ 8,128.50 \$ 8,128.50 \$ 8,128.50 \$ 8,128.50 \$ 8,128.50 \$ 8,128.50 \$ 8,128.50 \$ 8,128.50 \$ 8,128.50 \$ 14,687.70 \$ 8,128.50 \$ 7,581.90 \$ 7,581.90 \$ 8,128.50 \$ 8,128.50 \$ 8,128.50 \$ 8,128.50 \$ 7,581.90 \$ 7,581.90 \$ 7,581.90 \$ 7,581.90 \$ 7,581.90 \$ 8,128.50 \$ 8,128.50 \$ 8,128.50 \$ 8,128.50 \$ 8,128.50 \$ 8,128.50 \$ 8,128.50 \$ 8,128.50 \$ 8,128.50 \$ 8,128.50 \$ 8,128.50 \$ 8,128.50 \$ 8,128.50 \$ 8,128.50 \$ 8,128.50 \$ 9,877.62 |
| 2411722240112 322 11TH AVENUE NORTH WENDY M DORN 322 11TH AVE N HOPKINS MN 55343 \$ 5,684.64 \$ 1,425.00 \$ 1,237.50 \$ 8,347.1 | 2411722240053 2411722240054 2411722240053 2411722240053 2411722240053 2411722240053 2411722240053 2411722240051 2411722240040 2411722240040 2411722240040 2411722240040 2411722240040 2411722240045 2411722240045 2411722240045 2411722240045 2411722240045 2411722240045 2411722240045 2411722240045 2411722240137 2411722240138 2411722240139 2411722240139 2411722240139 2411722240139 2411722240139 2411722240139 | 201 11TH AVENUE NORTH 205 11TH AVENUE NORTH 206 11TH AVENUE NORTH 209 11TH AVENUE NORTH 209 11TH AVENUE NORTH 210 11TH AVENUE NORTH 213 11TH AVENUE NORTH 213 11TH AVENUE NORTH 213 11TH AVENUE NORTH 213 11TH AVENUE NORTH 221 11TH AVENUE NORTH 222 11TH AVENUE NORTH 225 11TH AVENUE NORTH 225 11TH AVENUE NORTH 228 11TH AVENUE NORTH 228 11TH AVENUE NORTH 233 11TH AVENUE NORTH 234 11TH AVENUE NORTH 234 11TH AVENUE NORTH 234 11TH AVENUE NORTH 235 11TH AVENUE NORTH 245 11TH AVENUE NORTH 246 11TH AVENUE NORTH 257 11TH AVENUE NORTH 267 11TH AVENUE NORTH 268 11TH AVENUE NORTH 269 11TH AVENUE NORTH 306 11TH AVENUE NORTH 307 11TH AVENUE NORTH 307 11TH AVENUE NORTH 308 11TH AVENUE NORTH 309 11TH AVENUE NORTH 309 11TH AVENUE NORTH 309 11TH AVENUE NORTH 315 11TH AVENUE NORTH 317 11TH AVENUE NORTH 318 11TH AVENUE NORTH 319 11TH AVENUE NORTH 311 11TH AVENUE NORTH 311 11TH AVENUE NORTH | CARLA S SILLANPAA MARIA L BAILEY JOHANNA HENJUM GREGORY W & BETH A MADSEN JOHN J MGGINTY REVOCABLE TRS ATTN: ROBEN HUNTER JOHN W WOOD III MAXWELJ FORSTER KRISTEN L WUBBELS TERRENCE & BARBARA SWEENEY ROBERT J SI JACQUELYN A CROOK VINCENT A PAOLUCCI ROBERT J SI JACQUELYN A CROOK VINCENT A PAOLUCCI PATRICK & SARAH SANDON DEGORAH B LUMBAR ETHAN ROBERT KASSNER JACQUELINE SUZANNE WENDEL JOHN P & JULIE TROMBLEY MARKT WARANE ALEXANDER BULKRUD MORGAN ELLIOTT JOAN MEATH LUCY ARIMOND DAVID L & KAREN A ALBRIGHT LUCY ARIMOND DAVID L & KAREN A ALBRIGHT LUCY ARIMOND LA BAILEY & ETHAN YANNA LAUBEN I PENNY JENNIFER A ALLADD NATHAN A BIGGS EMILY A RIGGS GAYLE E BABKER MML PROPERTIES LLC DAVID A ZAK THERESA A CALLAHAN | 201 11TH AVE N 205 11TH AVE N 206 11TH AVE N 209 11TH AVE N 209 11TH AVE N 209 11TH AVE N 209 11TH AVE N 201 11TH AVE N 213 11TH AVE N 213 11TH AVE N 218 11TH AVE N 218 11TH AVE N 221 11TH AVE N 222 11TH AVE N 225 11TH AVE N 225 11TH AVE N 225 11TH AVE N 228 11TH AVE N 233 11TH AVE N 233 11TH AVE N 234 11TH AVE N 234 11TH AVE N 236 11TH AVE N 237 11TH AVE N 238 11TH AVE N 238 11TH AVE N 239 11TH AVE N 219 11TH AVE N 210 11TH AVE N | HOPKINS MN 53433 HOPKINS MN 53434 BLOOMINGTON MN 53435 HOPKINS MN 53434 HOPKINS MN 5343 HOPKINS MN 53434 | \$ 5,466.00 \$ 5,466.00 \$ 5,466.00 \$ 5,466.00 \$ 5,466.00 \$ 5,466.00 \$ 12,025.20 \$ 5,466.00 \$ 12,025.20 \$ 5,466.00 \$ 12,025.20 \$ 5,466.00 \$ 5,466. | \$ 1,425.00 | \$ 1,237,50 \$ 1,237,50 | \$ 8,128.50 \$ 8,128.50 \$ 8,128.50 \$ 8,128.50 \$ 8,128.50 \$ 8,128.50 \$ 8,128.50 \$ 8,128.50 \$ 8,128.50 \$ 8,128.50 \$ 8,128.50 \$ 8,128.50 \$ 8,128.50 \$ 14,687.70 \$ 7,581.90 \$ 7,581.90 \$ 8,128.50 \$ 8,128.50 \$ 8,128.50 \$ 8,128.50 \$ 10,314.90 \$ 7,581.90 \$ 7,381.90 \$ 10,314.90 \$ 7,381.90 \$ 10,314.90 \$ 10 |
| 2411722240143 323 11TH AVENUE NORTH ELIZABETH N DOLEZAL CHARLES A HENDRIX 323 11TH AVE N HOPKINS MN 55343 \$ 4,192.04 \$ 1,425.00 \$ 1,237.50 \$ 6,854.5- | 2411722240037 2411722240037 2411722240054 2411722240053 2411722240053 2411722240053 2411722240053 2411722240039 2411722240040 2411722240040 2411722240040 2411722240040 2411722240040 2411722240049 2411722240049 2411722240049 2411722240049 2411722240049 2411722240049 2411722240049 2411722240049 2411722240049 2411722240049 2411722240049 2411722240049 2411722240049 2411722240140 2411722240140 2411722240140 2411722240140 2411722240140 2411722240140 2411722240140 2411722240140 | 201 11TH AVENUE NORTH 205 11TH AVENUE NORTH 206 11TH AVENUE NORTH 209 11TH AVENUE NORTH 209 11TH AVENUE NORTH 209 11TH AVENUE NORTH 213 11TH AVENUE NORTH 213 11TH AVENUE NORTH 213 11TH AVENUE NORTH 213 11TH AVENUE NORTH 221 11TH AVENUE NORTH 222 11TH AVENUE NORTH 222 11TH AVENUE NORTH 225 11TH AVENUE NORTH 225 11TH AVENUE NORTH 225 11TH AVENUE NORTH 228 11TH AVENUE NORTH 238 11TH AVENUE NORTH 238 11TH AVENUE NORTH 238 11TH AVENUE NORTH 238 11TH AVENUE NORTH 241 11TH AVENUE NORTH 241 11TH AVENUE NORTH 301 11TH AVENUE NORTH 317 11TH AVENUE NORTH 318 11TH AVENUE NORTH 317 11TH AVENUE NORTH | CARLA S SILLANPAA MARIA L BAILEY JOHANNA HENJUM GREGORY W & BETH A MADSEN JOHN J MGGINTY REVOCABLE TRS ATTN: ROBEN HUNTER JOHN W WOOD III MAXWELL J FORSTER KRISTEN L WUBBELS TERRENCE & BARBARA SWEENEY ROBERT J & JACQUELYN A CROCK VINCENT A PAOLUCCI ROBERT J SILLACQUELYN A CROCK VINCENT A PAOLUCCI PATRICK & SARAH SANDON DEGORAH B LUMBAR ETHAN ROBERT KASSNER JACQUELINE SUZANNE WENDEL JOHN P & JULIE TROMBLEY MARK T WANNE ALEXANDER BLIKRUD MORGAN ELLIOTT JOAN MEATH LUCY ARIMOND JOAN MEATH LUCY ARIMOND JOAN JOL & KAREN A ALBRIGHT LISA BAILEY & ETHAN YANNA LAUREN I PENNY LAUREN JENNIER A LALLAD NATHAN A RIGGS EMILY A RIGGS GAYLE E BARKER MML PROPERTIES LLC DAVIO A ZAK THERESA A CALLAHAN SUSAN KAYE HARRIS CHRISTON HARRED | 201 11TH AVE N 205 11TH AVE N 206 11TH AVE N 209 11TH AVE N 209 11TH AVE N 209 11TH AVE N 209 11TH AVE N 201 11TH AVE N 213 11TH AVE N 213 11TH AVE N 213 11TH AVE N 218 11TH AVE N 221 11TH AVE N 222 11TH AVE N 225 11TH AVE N 225 11TH AVE N 225 11TH AVE N 225 11TH AVE N 228 11TH AVE N 238 11TH AVE N 239 11TH AVE N 240 11TH AVE N 241 11TH AVE N 241 11TH AVE N 241 11TH AVE N 245 11TH AVE N 245 11TH AVE N 302 11TH AVE N 305 11TH AVE N 305 11TH AVE N 305 11TH AVE N 307 11TH AVE N 308 11TH AVE N 309 11TH AVE N 309 11TH AVE N 309 11TH AVE N 318 11TH AVE N 318 11TH AVE N 317 11TH AVE N 318 11TH AVE N 318 11TH AVE N | HOPKINS MN 53433 HOPKINS MN 53434 | \$ 5,466.00 \$ 1,459.04 \$ 1,459.04 \$ 5,466.00 \$ 1,459.04 \$ 1,459.04 \$ 1,459.04 \$ 1,459.04 \$ 1,459.04 \$ 1,459.04 \$ 1,459.04 \$ 1,459.04 \$ 1,459.04 \$ 1,459.04 \$ 1,459.04 \$ 1,459.04 \$ 1,459.04 | \$ 1,425.00 | \$ 1,237,50 | \$ 8,128.50 \$ 8,128.50 \$ 8,128.50 \$ 8,128.50 \$ 8,128.50 \$ 8,128.50 \$ 8,128.50 \$ 8,128.50 \$ 8,128.50 \$ 8,128.50 \$ 8,128.50 \$ 8,128.50 \$ 8,128.50 \$ 8,128.50 \$ 14,687.70 \$ 7,581.90 \$ 7,581.90 \$ 8,128.50 \$ 8,128.50 \$ 8,128.50 \$ 8,128.50 \$ 8,128.50 \$ 8,128.50 \$ 8,128.50 \$ 8,128.50 \$ 8,128.50 \$ 8,128.50 \$ 8,128.50 \$ 8,128.50 \$ 8,128.50 \$ 8,128.50 \$ 8,128.50 \$ 8,128.50 \$ 8,128.50 \$ 8,128.50 \$ 10,314.90 \$ 9,777.62 \$ 8,128.50 \$ 10,314.90 \$ 9,777.62 \$ 1,124.54 \$ 10,314.50 \$ 10,314 |

PRELIMINARY ASSESSMENT ROLL

CENTRAL AVENUES IMPROVEMENTS PHASE 2 CITY OF HOPKINS, MN CITY PROJECT NO. 2024-10

| | | | | | PROPOSED STREET | PROPOSED WATER | PROPOSED SEWER | TOTAL PROPOSED |
|--------------------------------|--|--|---------------------------------------|---|---|----------------------------|----------------------------|------------------------------|
| PID | PROPERTY ADDRESS | TAXPAYER NAME | TAXPAYER ADDRESS (LINE 1) | TAXPAYER ADDRESS (LINE 2) | ASSESSMENT | SERVICE ASSESSMENT | SERVICE ASSESSMENT | ASSESSMENT |
| | 326 11TH AVENUE NORTH | DANIEL SINCLAIR/SARAH BERNU | 326 11TH AVE N | HOPKINS MN 55343 | \$ 5,247.36 | \$ 1,425.00 | | \$ 7,909.86 |
| | 330 11TH AVENUE NORTH 333 11TH AVENUE NORTH | LEVI SCHATZ WILLIAM & JANET CLEMEN | 330 11TH AVE N 333 11TH AVE N | HOPKINS MN 55343 HOPKINS MN 55343 | \$ 5,466.00 \$ 3,864.08 | | | \$ 8,128.50 \$ 6,526.58 |
| | 334 11TH AVENUE NORTH | JACOB M POLING GWEN ROGERS-POLING | 334 11TH AVE N | HOPKINS MN 55343 | \$ 5,466.00 | | | \$ 8,128.50 |
| | 337 11TH AVENUE NORTH | DAVID A & DIANE R BANGERTER | 337 11TH AVE N | HOPKINS MN 55343 | \$ 4,192.04 | | | \$ 6,854.54 |
| | 340 11TH AVENUE NORTH 345 11TH AVENUE NORTH | DIANA L MARIANETTI DAVID HANSON | 340 11TH AVE N 345 11TH AVE N | HOPKINS MN 55343 HOPKINS MN 55343 | \$ 6,559.20 \$ 2,989.52 | \$ 1,425.00 \$ 1,425.00 | | \$ 9,221.70 \$ 5,652.02 |
| | 346 11TH AVENUE NORTH | LEONARD COEQUYT | 346 11TH AVE NO | HOPKINS MN 55343 | \$ 8,308.32 | \$ 1,425.00 | | \$ 10,970.82 |
| | 401 11TH AVENUE NORTH | DORISA NELSON DANIEL NELSON | 401 11TH AVE N | HOPKINS MN 55343 | \$ 2,173.08 | \$ 1,425.00 | | \$ 4,835.58 |
| | 402 11TH AVENUE NORTH 405 11TH AVENUE NORTH | MICHAEL J FIGGINS CATHERINE GRIGGS | 402 11TH AVE N 405 11TH AVE N | HOPKINS MN 55343 HOPKINS MN 55343 | \$ 2,173.08 \$ 4,906.08 | \$ 1,425.00 \$ 1,425.00 | | \$ 3,598.08 \$ 7,568.58 |
| | 406 11TH AVENUE NORTH | DEBORAH A VICK | 3226 BRUNSWICK AVE S | ST LOUIS PARK MN 55416 | \$ 2,173.08 | \$ 1,425.00 | | \$ 4,835.58 |
| 2411722210012 | 410 11TH AVENUE NORTH | STEPHEN G SCHLUCK | 410 11TH AVE N | HOPKINS MN 55343 | \$ 2,173.08 | \$ 1,425.00 | \$ 1,237.50 | \$ 4,835.58 |
| | 414 11TH AVENUE NORTH 417 11TH AVENUE NORTH | LUCRETIA JEFFERS STEVEN CHARLES ANDERSON JAMES P WELBOURN KATHRYN A WELBOURN | 414 11TH AVE N 417 11TH AVE N | HOPKINS MN 55343 HOPKINS MN 55343 | \$ 2,173.08 \$ 7,201.80 | \$ 1,425.00 \$ 1,425.00 | \$ 1,237.50 \$ 1,237.50 | \$ 4,835.58 \$ 9,864.30 |
| | 418 11TH AVENUE NORTH | DANIEL M WELLER | 418 11TH AVE NO | HOPKINS MN 55343 | \$ 1,954.44 | | | \$ 4,616.94 |
| | 101 12TH AVENUE NORTH | TREVOR GRUYS & MAUREEN GRUYS | 101 12TH AVE N | HOPKINS MN 55343 | \$ 5,466.00 | \$ 1,425.00 | | \$ 8,128.50 |
| | 102 12TH AVENUE NORTH 105 12TH AVENUE NORTH | JULIE A HALVERSON DAVID J HESTAD BRITTANY A HESTAD | 102 12TH AVE N 105 12TH AVE N | HOPKINS MN 55343 HOPKINS MN 55343 | \$ 5,466.00 \$ 5,466.00 | | \$ 1,237.50 \$ 1,237.50 | \$ 8,128.50 \$ 8,128.50 |
| | 106 12TH AVENUE NORTH | JOSEPH M & BETH A NORD | 106 12TH AVE N | HOPKINS MN 55343 | \$ 5,466.00 | \$ 1,425.00 | \$ 1,237.50 | \$ 8,128.50 |
| | 109 12TH AVENUE NORTH | RUTH A WILLIAMS | 109 12TH AVE N | HOPKINS MN 55343 | \$ 5,466.00 | \$ 1,425.00 | \$ 1,237.50 | \$ 8,128.50 |
| | 110 12TH AVENUE NORTH 113 12TH AVENUE NORTH | MARTHA PATTERSON PRIEST MARGARET M HAGEL | 110 12TH AVE N 417 13TH AVE N | HOPKINS MN 55343 HOPKINS MN 55343 | \$ 5,466.00 \$ 5,466.00 | | | \$ 8,128.50 \$ 8,128.50 |
| | 117 12TH AVENUE NORTH | SUMMER TULLER | 117 12TH AVE N | HOPKINS MN 55343 | \$ 5,466.00 | | | \$ 8,128.50 |
| | 121 12TH AVENUE NORTH | LARRY A SEARCY | 121 12TH AVE NO | HOPKINS MN 55343 | \$ 5,466.00 | | | \$ 8,128.50 |
| | 125 12TH AVENUE NORTH 129 12TH AVENUE NORTH | PHILLIP E & PATRICIA BILBERY KRISTI PLUIMER/BRUCE NYQUIST | 125 12TH AVE N 129 12TH AVE N | HOPKINS MN 55343 HOPKINS MN 55343 | \$ 5,466.00 \$ 5,466.00 | | | \$ 8,128.50 \$ 8,128.50 |
| | 133 12TH AVENUE NORTH | ANDREW & JILLIEN HIGGINS | 133 12TH AVE N | HOPKINS MN 55343 | \$ 5,466.00 | | | \$ 8,128.50 |
| 2411722310087 | 137 12TH AVENUE NORTH | BRANDON D HAUGH EMILY G HAUGH | 137 12TH AVE N | HOPKINS MN 55343 | \$ 7,324.44 | \$ 1,425.00 | \$ 1,237.50 | \$ 9,986.94 |
| | 201 12TH AVENUE NORTH 205 12TH AVENUE NORTH | JOSEPH B STEEN III SUSAN MARIE STEEN MCKENZIE M KEE | 201 12TH AVE N 205 12TH AVE N | HOPKINS MN 55343 HOPKINS MN 55343 | \$ 5,466.00 \$ 5,466.00 | \$ 1,425.00 \$ 1,425.00 | | \$ 8,128.50 \$ 8,128.50 |
| 2411722240058 | 203 12111 AVENUE NUKTH | INCREIVATE IVI REE | 205 121TI AVE IV | HOPKING WIN 35545 | y 5,400.00 | 1,425.00 | , 1,237.5U | \$,128.50 |
| 2411722240177 | 210 12TH AVENUE NORTH | KENT H SALESKA | 210 12TH AVE N | HOPKINS MN 55343 | \$ 10,604.04 | \$ 1,425.00 | | \$ 13,266.54 |
| | 211 12TH AVENUE NORTH 214 12TH AVENUE NORTH | BRIAN SAWTELL/JOSHUA FLOM MITCHELL R HALLSTROM JACOB E NELSON | 12314 SUNNYBROOK RD 214 12TH AVE N | EDEN PRAIRIE MN 55347 HOPKINS MN 55343 | \$ 5,466.00 \$ 5,466.00 | | | \$ 8,128.50 \$ 8,128.50 |
| | 215 12TH AVENUE NORTH | JERRY D MARTIN JR | 10799 BREN ROAD E | MINNETONKA MN 55343 | \$ 5,466.00 | | | \$ 8,128.50 |
| 2411722240061 | 217 12TH AVENUE NORTH | WILLIAM & ANGELA SUNDELL | 217 12TH AVE N | HOPKINS MN 55343 | \$ 5,466.00 | \$ 1,425.00 | \$ 1,237.50 | \$ 8,128.50 |
| | 218 12TH AVENUE NORTH 221 12TH AVENUE NORTH | PARISH/ST GABRIEL/ARC ANGEL JANICE CAVIER | 218 12TH AVE N 221 12TH AVE NO | HOPKINS MN 55343 HOPKINS MN 55343 | \$ 5,466.00 \$ 5,466.00 | | | \$ 8,128.50 \$ 8,128.50 |
| 2411722240072 | 222 12TH AVENUE NORTH | MARION L STUMO | 221 12TH AVE NO 222 12TH AVE N | HOPKINS MN 55343 | \$ 5,466.00 | \$ 1,425.00 | | \$ 8,128.50 |
| 2411722240063 | 225 12TH AVENUE NORTH | WILLIAM K GEIS | 225 12TH AVE N | HOPKINS MN 55343 | \$ 5,466.00 | \$ 1,425.00 | \$ 1,237.50 | \$ 8,128.50 |
| | 228 12TH AVENUE NORTH 229 12TH AVENUE NORTH | THADDEUS UNOLD MICHAEL WHALEN & JEAN WHALEN | 228 12TH AVE N 229 12TH AVE N | HOPKINS MN 55343 HOPKINS MN 55343 | \$ 5,466.00 \$ 5,466.00 | | \$ 1,237.50 \$ 1,237.50 | \$ 8,128.50 \$ 8,128.50 |
| 2411722240004 | 232 12TH AVENUE NORTH | SAMUEL FULCO | 232 12TH AVE N | HOPKINS MN 55343 | \$ 5,466.00 | | \$ 1,237.50 | \$ 8,128.50 |
| | 233 12TH AVENUE NORTH | MICHELLE C PAURUS | 233 12TH AVE N | HOPKINS MN 55343 | \$ 5,466.00 | | \$ 1,237.50 | \$ 8,128.50 |
| | 236 12TH AVENUE NORTH 237 12TH AVENUE NORTH | KRISTY I STRONG DAVID R HENDEL | 236 12TH AVE N 237 12TH AVE N | HOPKINS MN 55343 HOPKINS MN 55343 | \$ 5,466.00 \$ 5,466.00 | | \$ 1,237.50 \$ 1,237.50 | \$ 8,128.50 \$ 8,128.50 |
| | 238 12TH AVENUE NORTH | CRAIG ALAN HASSIG BRENDA JEAN HASSIG | 240 12TH AVE N | HOPKINS MN 55343 | \$ 6,668.52 | | | \$ 9,331.02 |
| 2411722240168 | 244 12TH AVENUE NORTH | TIMOTHY K/LESLIE A MASTERSON | 244 12TH AVE N | HOPKINS MN 55343 | \$ 8,089.68 | | \$ 1,237.50 | \$ 10,752.18 |
| | 245 12TH AVENUE NORTH | IAN NICHOLAAS MORET GRACE A ELWELL | 245 12TH AVE N | HOPKINS MN 55343 | \$ 9,292.20 | | | \$ 11,954.70 |
| | 300 12TH AVENUE NORTH 301 12TH AVENUE NORTH | PATRICIA A CARLSON JOHN A BUSS CHAD D MOLLER | 300 12TH AVE N 301 12TH AVE N | HOPKINS MN 55343 HOPKINS MN 55343 | \$ 8,389.72 \$ 5,466.00 | | | \$ 11,052.22 \$ 8,128.50 |
| | 305 12TH AVENUE NORTH | PATRICIA A CARLSON JOHN A BUSS | 300 12TH AVE N | HOPKINS MN 55343 | \$ 5,466.00 | | | \$ 8,128.50 |
| | 309 12TH AVENUE NORTH | ELOIT M/BARBARA J WILLANDER | 309 12TH AVE N | HOPKINS MN 55343 | \$ 8,199.00 | | \$ 1,237.50 | \$ 10,861.50 |
| | 310 12TH AVENUE NORTH 314 12TH AVENUE NORTH | THOMAS J QUINN JENNIFER M COATS | 4740 BAKER RD 314 12TH AVE N | MINNETONKA MN 55343 HOPKINS MN 55343 | \$ 5,110.12 \$ 4,016.92 | \$ 1,425.00 \$ 1,425.00 | | \$ 7,772.62 \$ 6,679.42 |
| 2411722240120 | 317 12TH AVENUE NORTH | JEFFREY P JENSEN JENNIFER R JENSEN | 317 12TH AVE N | HOPKINS MN 55343 | \$ 8,199.00 | \$ 1,425.00 | \$ 1,237.50 | \$ 10,861.50 |
| | 318 12TH AVENUE NORTH | JUSTIN P DORR | 318 12TH AVE N | HOPKINS MN 55343 | \$ 4,016.92 | \$ 1,425.00 | | \$ 6,679.42 |
| | 321 12TH AVENUE NORTH 322 12TH AVENUE NORTH | JOANNE M LYNCH PATRICK J MCNALLY OONAGH PARK MCNALLY | 321 12TH AVE N 322 12TH AVE N | HOPKINS MN 55343 HOPKINS MN 55343 | \$ 5,466.00 \$ 4,016.92 | \$ 1,425.00 \$ 1,425.00 | | \$ 8,128.50 \$ 6,679.42 |
| 2411722240122 | 325 12TH AVENUE NORTH | MORONI J & KARLA A ST JOHN | 325 12TH AVE N | HOPKINS MN 55343 | \$ 5,466.00 | \$ 1,425.00 | \$ 1,237.50 | \$ 8,128.50 |
| | 326 12TH AVENUE NORTH | JOSE N HERNANDEZ-ARRIOLA | 326 12TH AVE N | HOPKINS MN 55343 | \$ 4,016.92 | \$ 1,425.00 | | \$ 6,679.42 |
| | 329 12TH AVENUE NORTH 330 12TH AVENUE NORTH | CORRINE J GACHNE HEIDI MARIA GARRIDO | 329 12TH AVE N 330 12TH AVE N | HOPKINS MN 55343 HOPKINS MN 55343 | \$ 5,466.00 \$ 4,016.92 | \$ 1,425.00 \$ 1,425.00 | \$ 1,237.50 \$ 1,237.50 | \$ 8,128.50 \$ 6,679.42 |
| 2411722240170 | 334 12TH AVENUE NORTH | PHILLIP W SLAWSON JR | 334 12TH AVE N | HOPKINS MN 55343 | \$ 4,235.56 | | | \$ 6,898.06 |
| | 335 12TH AVENUE NORTH | CURTIS B & AMY K NELSON | 8075 CORCORAN TRAIL W | HAMEL MN 55340 | \$ 5,247.36 | | | \$ 7,909.86 |
| | 337 12TH AVENUE NORTH 338 12TH AVENUE NORTH | THOMAS SODERLING KATIE J SODERLING SCOTT L & DENISE M PRICE | 337 12TH AVE N 338 12TH AVE N | HOPKINS MN 55343 HOPKINS MN 55343 | \$ 9,073.56 \$ 3,798.28 | | \$ 1,237.50 \$ 1,237.50 | \$ 11,736.06 \$ 6,460.78 |
| 2411722240087 | 342 12TH AVENUE NORTH | KIMBERLY A STAHL | 7417 WHITEHALL RD | SHAKOPEE MN 55379 | \$ 2,923.72 | \$ 1,425.00 | \$ 1,237.50 | \$ 5,586.22 |
| | 346 12TH AVENUE NORTH | PETER CLARKE ZOE ILLIES | 346 12TH AVE N | HOPKINS MN 55343 | \$ 3,470.32 | | \$ 1,237.50 | \$ 6,132.82 |
| | 347 12TH AVENUE NORTH 401 12TH AVENUE NORTH | BARTON CHESTER LAY SHANE BARI & PAULA BARI | 347 12TH AVE N 401 12TH AVE N | HOPKINS MN 55343 HOPKINS MN 55343 | \$ 5,903.28 \$ 2,173.08 | | | \$ 8,565.78 \$ 4,835.58 |
| 2411722210024 | 402 12TH AVENUE NORTH | ERIC SVENSSON DAWN SVENSSON | 402 12TH AVE N | HOPKINS MN 55343 | \$ 3,287.92 | \$ 1,425.00 | \$ 1,237.50 | \$ 5,950.42 |
| | 404 12TH AVENUE NORTH | MAXWELL MARK REITAN GEISLER | 404 12TH AVE N | HOPKINS MN 55343 | \$ 3,287.92 | | \$ 1,237.50 | \$ 5,950.42 |
| | 405 12TH AVENUE NORTH 409 12TH AVENUE NORTH | KENNETH SALDANHA ET AL AMY SALDANHA JAMES A SPEICH | 405 12TH AVE N 409 12TH AVE N | HOPKINS MN 55343 HOPKINS MN 55343 | \$ 2,173.08 \$ 2,173.08 | | \$ 1,237.50 \$ 1,237.50 | \$ 4,835.58 \$ 4,835.58 |
| 2411722210022 | 410 12TH AVENUE NORTH | JOAN M & BRUCE W JOHNSTON | 410 12TH AVE N | HOPKINS MN 55343 | \$ 3,287.92 | \$ 1,425.00 | \$ 1,237.50 | \$ 5,950.42 |
| | 413 12TH AVENUE NORTH | LAURA SIETSEMA GAVEN SIETSEMA | 413 12TH AVE N | HOPKINS MN 55343 | \$ 4,906.08 | | | \$ 7,568.58 |
| | 414 12TH AVENUE NORTH 418 12TH AVENUE NORTH | JACALYN J CULP JONATHAN O NELSON ELIZABETH G NELSON | 414 12TH AVE N 418 12TH AVE N | HOPKINS MN 55343 HOPKINS MN 55343 | \$ 3,287.92 \$ 3,287.92 | | | \$ 5,950.42 \$ 5,950.42 |
| 2411722210018 | 421 12TH AVENUE NORTH | GAVNAT PROPERTIES LLC | 1791 SHORELINE BLVD | PRIOR LAKE MN 55379 | \$ 5,999.28 | \$ 1,425.00 | \$ 1,237.50 | \$ 8,661.78 |
| | 424 12TH AVENUE NORTH | BENJAMIN VANHOVE | 424 12TH AVE N | HOPKINS MN 55343 | \$ 4,381.12 | \$ 1,425.00 | \$ 1,237.50 | \$ 7,043.62 |
| | 213 13TH AVENUE NORTH 221 13TH AVENUE NORTH | THOMAS D BILLIET SHELLEY R BILLIET CHRISTOPHER EVAN DAHL | 213 13TH AVE N 221 13TH AVE N | HOPKINS MN 55343 HOPKINS MN 55343 | \$ 11,259.96 \$ 8,199.00 | | | \$ 13,922.46 \$ 10,861.50 |
| 2411722230081 | 222 13TH AVENUE NORTH | MICHAEL LAMSER & AMY FURAN | 222 13TH AVE N | HOPKINS MN 55343 | \$ 6,668.52 | \$ 1,425.00 | \$ 1,237.50 | \$ 9,331.02 |
| | 225 13TH AVENUE NORTH | CHISTOPHER P HARRIMAN | 225 13TH AVE N | HOPKINS MN 55343 | \$ 5,466.00 | | | \$ 8,128.50 |
| | 228 13TH AVENUE NORTH 229 13TH AVENUE NORTH | CHRISTOPHER & JAMIE ELLIOTT JOSEPH G KERLIN NICOLE JH KERLIN | 228 13TH AVE N 229 13TH AVE N | HOPKINS MN 55343 HOPKINS MN 55343 | \$ 5,466.00 \$ 5,466.00 | | | \$ 8,128.50 \$ 8,128.50 |
| 2411722230079 | 232 13TH AVENUE NORTH | WARREN PHILIP NASH | 232 13TH AVE N | HOPKINS MN 55343 | \$ 8,199.00 | \$ 1,425.00 | \$ 1,237.50 | \$ 10,861.50 |
| | 233 13TH AVENUE NORTH | BERNARD BECHARA ADRIANA DOBRZYCKA BECHARA CHRISTOPHER ELLIOTT JAMIE ELLIOTT | 233 13TH AVE N | HOPKINS MN 55343 | \$ 5,466.00 | | | \$ 8,128.50 \$ 8.128.50 |
| | 237 13TH AVENUE NORTH 238 13TH AVENUE NORTH | CHRISTOPHER ELLIOTT JAMIE ELLIOTT EMILY ELIZABETH ABERLE JOSHUA JOHN ABERLE | 237 13TH AVE N 238 13TH AVE N | HOPKINS MN 55343 HOPKINS MN 55343 | \$ 5,466.00 \$ 8,199.00 | | | \$ 8,128.50 \$ 10,861.50 |
| 2411722240084 | 241 13TH AVENUE NORTH | AMY LKT PROPERTIES LLC | 405 12TH AVE N | HOPKINS MN 55343 | \$ 4,372.80 | \$ 1,425.00 | \$ 1,237.50 | \$ 7,035.30 |
| | 242 13TH AVENUE NORTH | ELIZABETH A ALEXANDER | 242 13TH AVE N | HOPKINS MN 55343 | \$ 4,700.76 | | \$ 1,237.50 | \$ 7,363.26 |
| | 245 13TH AVENUE NORTH 246 13TH AVENUE NORTH | GERALD J MASHEK COOPER R & ALYSSA J A WARNE | 245 13TH AVE N 246 13TH AVE N | HOPKINS MN 55343 HOPKINS MN 55343 | \$ 4,810.08 \$ 4,372.80 | | \$ 1,237.50 \$ 1,237.50 | \$ 7,472.58 \$ 7,035.30 |
| 2411722240096 | 301 13TH AVENUE NORTH | LORI S HIVELY | 301 13TH AVENUE N. | HOPKINS MN 55343 | \$ 4,016.92 | \$ 1,425.00 | \$ 1,237.50 | \$ 6,679.42 |
| | 302 13TH AVENUE NORTH | AMY D MAHMUD | 302 13TH AVE N | HOPKINS MN 55343 | \$ 4,016.92 | | | \$ 6,679.42 |
| | 305 13TH AVENUE NORTH 306 13TH AVENUE NORTH | ANTONIO V MENA MARTE MAURA MENA GREG FULLERTON SUSAN PATRICIA FULLERTON | 305 13TH AVE N 306 13TH AVE N | HOPKINS MN 55343 HOPKINS MN 55343 | \$ 4,016.92 \$ 4,016.92 | | \$ 1,237.50 \$ 1,237.50 | \$ 6,679.42 \$ 6,679.42 |
| | 309 13TH AVENUE NORTH | MATTHEW HEYN & MICHELLE HEYN | 309 13TH AVE N | HOPKINS MN 55343 | \$ 4,016.92 | | | \$ 6,679.42 |
| 2411722230130 | 310 13TH AVENUE NORTH | BRYAN ANDERSON | 310 13TH AVE N | HOPKINS MN 55343 | \$ 4,016.92 | | | \$ 6,679.42 |
| | 313 13TH AVENUE NORTH | BARBIE ANNE JOARNT | 313 13TH AVE N | HOPKINS MN 55343 | \$ 4,016.92 | | \$ 1,237.50 | \$ 6,679.42 |
| 2411722240099 | | | 314 13TH AVE N | HOPKINS MN 55342 | \$ 401607 | \$ 1,425,00 | \$ 1 227 50 | \$ 6670 42 |
| 2411722240099 2411722230129 | 314 13TH AVENUE NORTH 315 13TH AVENUE NORTH | JAMES R DEMARAIS AMY SCHNEIDER | 314 13TH AVE N 315 13TH AVE N | HOPKINS MN 55343 HOPKINS MN 55343 | \$ 4,016.92 \$ 4,016.92 \$ 4,016.92 | \$ 1,425.00 | | \$ 6,679.42 \$ 6,679.42 |

PRELIMINARY ASSESSMENT ROLL

CENTRAL AVENUES IMPROVEMENTS PHASE 2 CITY OF HOPKINS, MN

CITY PROJECT NO. 2024-10

| PID | PROPERTY ADDRESS | TAXPAYER NAME | TAXPAYER ADDRESS (LINE 1) | TAXPAYER ADDRESS (LINE 2) | PROPOSED STREET ASSESSMENT | PROPOSED WATER SERVICE ASSESSMENT | PROPOSED SEWER SERVICE ASSESSMENT | TOTAL PROPOSED ASSESSMENT |
|---------------|--|---|----------------------------------|--------------------------------------|-----------------------------|---|--------------------------------------|---|
| | 319 13TH AVENUE NORTH | LOUISE M SEGRETO TRUSTEE KEVIN L CRUDDEN TRUSTEE | 6720 INDIAN HILLS RD | EDINA MN 55439 | \$ 4,016.92 | \$ 1,425.00 | \$ 1,237.50 | \$ 6,679.42 |
| | 322 13TH AVENUE NORTH | RICHARD & NANCY KILLMER | 322 13TH AVE N | HOPKINS MN 55343 | \$ 4,016.92 | \$ 1,425.00 | \$ 1,237.50 | \$ 6,679.42 |
| | 325 13TH AVENUE NORTH | THOMAS HUDOCK III REBEKAH HUDOCK | 325 13TH AVE N | HOPKINS MN 55343 | \$ 4,016.92 | \$ 1,425.00 | \$ 1,237.50 | \$ 6,679.42 |
| | 326 13TH AVENUE NORTH | TECH MAN INC | 20 NATHAN LA N #2 | PLYMOUTH MN 55441 | \$ 4,016.92 | | \$ 1,237.50 | \$ 6,679.42 |
| | 329 13TH AVENUE NORTH | PAUL E/STEPHANIE A PEDERSON | 329 13TH AVE N | HOPKINS MN 55343 | \$ 4,016.92 | | \$ 1,237.50 | \$ 6,679.42 |
| | 330 13TH AVENUE NORTH | MICHAEL C VILLAFRANCA SARAH M VILLAFRANCA ROSANNE H CAULEY | 7023 DOWN RD | EDINA MN 55439 | \$ 4,016.92 \$ 4.016.92 | | \$ 1,237.50 \$ 1,237.50 | \$ 6,679.42 \$ 6,679.42 |
| | 333 13TH AVENUE NORTH 334 13TH AVENUE NORTH | SANDRA K SEELYE | 333 13TH AVE N 334 13TH AVE N | HOPKINS MN 55343 HOPKINS MN 55343 | \$ 4,016.92 \$ 4.016.92 | | \$ 1,237.50 \$ 1,237.50 | \$ 6,679.42 \$ 6,679.42 |
| | 337 13TH AVENUE NORTH | MOLLY GABRIELE KATIE GABRIELE | 337 13TH AVE N | HOPKINS MN 55343 | \$ 4,016.92 | | \$ 1,237.50 | \$ 6,679.42 |
| | 338 13TH AVENUE NORTH | THOMAS ALLEN PATTERSON | 338 13TH AVE N | HOPKINS MN 55343 | \$ 4,016.92 | | \$ 1,237.50 | \$ 6,679.42 |
| | 345 13TH AVENUE NORTH | RICHARD A BRAUSEN | 345 13TH AVE N | HOPKINS MN 55343 | \$ 7,733.80 | | | \$ 10,396.30 |
| | 346 13TH AVENUE NORTH | P A SHOLTZ & J I SHOLTZ | 346 13TH AVE N | HOPKINS MN 55343 | \$ 7,624.48 | | | \$ 10,286.98 |
| | 401 13TH AVENUE NORTH | GREGORY R OLSON | 401 13TH AVE N | HOPKINS MN 55343 | \$ 3,287.92 | | \$ 1,237.50 | \$ 5,950.42 |
| 2411722220044 | 402 13TH AVENUE NORTH | MATTHEW OLSON & ANDREA OLSON | 402 13TH AVE N | HOPKINS MN 55343 | \$ 3,287.92 | | \$ 1,237.50 | \$ 5,950.42 |
| | 405 13TH AVENUE NORTH | ASHLEY ZAGAROS COLTON VAN DORPE | 405 13TH AVE N | HOPKINS MN 55343 | \$ 3,287.92 | | | \$ 5,950.42 |
| | 406 13TH AVENUE NORTH | 406 13TH AVE N LLC | 241 14TH AVE NORTH | HOPKINS MN 55343 | \$ 3,287.92 | | \$ 1,237.50 | \$ 5,950.42 |
| | 409 13TH AVENUE NORTH | BETHANY M GILBERTSON LEVI A GILBERTSON | 409 13TH AVE N | HOPKINS MN 55343 | \$ 3,287.92 | | \$ 1,237.50 | \$ 5,950.42 |
| | 410 13TH AVENUE NORTH | MICHAEL L & AMANDA R HAUGEN | 410 13TH AVE N | HOPKINS MN 55343 | \$ 3,287.92 | | \$ 1,237.50 | \$ 5,950.42 |
| | 413 13TH AVENUE NORTH | STEVEN KUHN | 413 13TH AVE N | HOPKINS MN 55343 | \$ 3,287.92 | | \$ 1,237.50 | \$ 5,950.42 |
| | 414 13TH AVENUE NORTH | COURTNEY L CULLEN | 414 13TH AVE N | HOPKINS MN 55343 | \$ 3,287.92 | | \$ 1,237.50 | \$ 5,950.42 |
| | 417 13TH AVENUE NORTH 418 13TH AVENUE NORTH | MARGARET M HAGEL RIGZIN DOLMA ARNESON | 417 13TH AVE N | HOPKINS MN 55343 | \$ 3,287.92 \$ 3,287.92 | | \$ 1,237.50 \$ 1,237.50 | \$ 5,950.42 |
| | 418 13TH AVENUE NORTH 422 13TH AVENUE NORTH | PARKER TOFTE JOHNSON MAYA RAPP JOHNSON | 418 13TH AVE N 422 13TH AVE N | HOPKINS MN 55343 HOPKINS MN 55343 | \$ 3,287.92 \$ 3,287.92 | | \$ 1,237.50 \$ 1,237.50 | \$ 5,950.42 \$ 5,950.42 |
| | 425 13TH AVENUE NORTH | BENJAMIN DAVID BARNARD | 425-13TH AVE N | HOPKINS MIN 55343 | \$ 8,753.92 | | \$ 1,237.50 | \$ 11,416.42 |
| | 426 13TH AVENUE NORTH | TRACIE BRISTOL | 426 13TH AVE N | HOPKINS MN 55343 | \$ 3,287.92 | | \$ 1,237.50 | \$ 5,950.42 |
| | 901 1ST STREET NORTH | FBR PROPERTY LLC | 3932 YORK AVE S | MINNEAPOLIS MN 55410 | \$ 35,714.62 | | \$ 1,237.50 | \$ 43,047.12 |
| | 904 2ND STREET NORTH | JWN - 904-908 LLC | P O BOX 5541 | HOPKINS MN 55343 | \$ 5,466.00 | | | \$ 8,128.50 |
| 2411722420092 | | | | | | , | , , , , , , | , |
| 2411722420209 | 101 9TH AVENUE NORTH | TERRY H KLUGMAN | 101 9TH AV N | HOPKINS MN 55343 | \$ 5,247.36 | \$ 1,425.00 | \$ 1,237.50 | \$ 7,909.86 |
| 2411722420093 | 105 9TH AVENUE NORTH | DANA ANDERON-HELSTROM | 105 9TH AVE N | HOPKINS MN 55343 | \$ 5,466.00 | \$ 1,425.00 | \$ 1,237.50 | \$ 8,128.50 |
| | 106 9TH AVENUE NORTH | BRIDGE SFR IV SEED BOR LLC | 6836 MORRISON BLVD SUITE 320 | CHARLOTTE NC 28211 | \$ 3,935.52 | | \$ 1,237.50 | \$ 6,598.02 |
| 2411722420094 | 109 9TH AVENUE NORTH | JERRY MARTIN KATHRYN M SHINNICK | 10799 BREN ROAD E | MINNETONKA MN 55343 | \$ 5,466.00 | \$ 1,425.00 | \$ 1,237.50 | \$ 8,128.50 |
| | 113 9TH AVENUE NORTH | ANTHONY DALBEC AMANDA MARK | 113 9TH AVE N | HOPKINS MN 55343 | \$ 5,466.00 | | \$ 1,237.50 | \$ 8,128.50 |
| 2411722310113 | 114 9TH AVENUE NORTH | TYLER KEEHR | 114 9TH AVE N | HOPKINS MN 55343 | \$ 7,652.40 | | \$ 1,237.50 | \$ 10,314.90 |
| | 118 9TH AVENUE NORTH | KENNETH R ELL | 118 9TH AVE N | HOPKINS MN 55343 | \$ 5,466.00 | | \$ 1,237.50 | \$ 8,128.50 |
| | 122 9TH AVENUE NORTH | JAMES WILLIAM GAMBLE | 122 9TH AVE N | HOPKINS MN 55343 | \$ 5,466.00 | | \$ 1,237.50 | \$ 8,128.50 |
| | 123 9TH AVENUE NORTH 125 9TH AVENUE NORTH | JANET K HUIBREGTSE NATHAN J STANEK KIMBERLY I STANEK | 123 9TH AVE N 125 9TH AVE N | HOPKINS MN 55343 HOPKINS MN 55343 | \$ 10,932.00 \$ 5,466.00 | | \$ 1,237.50 \$ 1,237.50 | \$ 13,594.50 \$ 8,128.50 |
| | 126 9TH AVENUE NORTH | BRIAN R BARLAGE | 126 9TH AVE N | HOPKINS MN 55343 | \$ 5,466.00 | | | \$ 8,128.50 |
| | 129 9TH AVENUE NORTH | LAURA BETH KENNEDY | 129 9TH AVE N | HOPKINS MN 55343 | \$ 5,466.00 | | | \$ 8,128.50 |
| | 130 9TH AVENUE NORTH | MICHAEL & LINDA SCHOMMER | 130 9TH AVE N | HOPKINS MN 55343 | \$ 5,466.00 | | \$ 1,237.50 | \$ 8,128.50 |
| | 133 9TH AVENUE NORTH | DEBORAH JEAN KEELEY | 133 9TH AVE N | HOPKINS MN 55343 | \$ 5,466.00 | \$ 1,425.00 | \$ 1,237.50 | \$ 8,128.50 |
| 2411722310108 | 134 9TH AVENUE NORTH | JEFFREY & ABBIE SEBA | 134 9TH AVE N | HOPKINS MN 55343 | \$ 5,466.00 | \$ 1,425.00 | \$ 1,237.50 | \$ 8,128.50 |
| 2411722420100 | 137 9TH AVENUE NORTH | RICHARD C/NANCEE J GENDREAU | 25900 SMITHTOWN RD | SHOREWOOD MN 55331 | \$ 5,466.00 | \$ 1,425.00 | \$ 1,237.50 | \$ 8,128.50 |
| 2411722310107 | 138 9TH AVENUE NORTH | ERIN C BOE | 138 9TH AVE N | HOPKINS MN 55343 | \$ 5,466.00 | \$ 1,425.00 | \$ 1,237.50 | \$ 8,128.50 |
| | 142 9TH AVENUE NORTH | DAVID PAUL LAWSON | 142 9TH AVE N | HOPKINS MN 55343 | \$ 5,466.00 | | \$ 1,237.50 | \$ 8,128.50 |
| | 143 9TH AVENUE NORTH | KARI MARGET LARSON | 143 9TH AVE N | HOPKINS MN 55343 | \$ 5,466.00 | | \$ 1,237.50 | \$ 8,128.50 |
| | 147 9TH AVENUE NORTH | ANDREW LEE STEINFELDT ERIN BRIANNA COLLINS | 147 9TH AVE N | HOPKINS MN 55343 | \$ 5,466.00 | \$ 1,425.00 | \$ 1,237.50 | \$ 8,128.50 |
| 2411722130088 | | | | | | | | |
| 2411722130089 | 204 0711 41/7411/5 4100711 | CHARGE OF THE COOCS | 204 0711 41/5 41 | | 4 04 700 47 | 4 | 4 4 227 50 | |
| | 201 9TH AVENUE NORTH 202 9TH AVENUE NORTH | CHURCH OF THE CROSS JOSH MONTGOMERY | 201 9TH AVE N 202 9TH AVE N | HOPKINS MN 55343 HOPKINS MN 55343 | \$ 24,739.17 \$ 5.466.00 | \$ 6,095.00 | \$ 1,237.50 \$ 1,237.50 | \$ 32,071.67 \$ 8.128.50 |
| | 202 9TH AVENUE NORTH | ANDREW ARTHUR JENSEN ALLISON EMMA JENSEN | 202 9TH AVE N 206 9TH AVE N | HOPKINS MN 55343 | \$ 5,466.00 \$ 5,466.00 | | \$ 1,237.50 \$ 1,237.50 | \$ 8,128.50 |
| | 210 9TH AVENUE NORTH | BRIAN SMOLIAK SARAH R MOBERG | 210 9TH AVE N | HOPKINS MN 55343 | \$ 5,466.00 | | \$ 1,237.50 | \$ 8,128.50 |
| | 213 9TH AVENUE NORTH | CHRISTIAN J SANCHEZ KRISTIANE R SANCHEZ | 213 9TH AVE N | HOPKINS MN 55343 | \$ 2,087.86 | | \$ 1,237.50 | \$ 4,750.36 |
| | 214 9TH AVENUE NORTH | JACQUELINE M GRAHAM ALEXANDER J GRAHAM | 214 9TH AVE N | HOPKINS MN 55343 | \$ 5,466.00 | | \$ 1,237.50 | \$ 8,128.50 |
| | 217 9TH AVENUE NORTH | SARAH SCHERSCHLIGT JAMES ADDISON | 217 9TH AVE N | HOPKINS MN 55343 | \$ 2,087.86 | \$ 1,425.00 | \$ 1,237.50 | \$ 4,750.36 |
| | 218 9TH AVENUE NORTH | REMY A DOEGA/TRACY L IMSDAHL | 218 9TH AVE N | HOPKINS MN 55343 | \$ 5,466.00 | \$ 1,425.00 | \$ 1,237.50 | \$ 8,128.50 |
| | 221 9TH AVENUE NORTH | BARBARA ANN HANSEN | 221 9TH AVE N | HOPKINS MN 55343 | \$ 2,087.86 | \$ 1,425.00 | \$ 1,237.50 | \$ 4,750.36 |
| 2411722240007 | 222 9TH AVENUE NORTH | LEVI PETERSON | 222 9TH AVE N | HOPKINS MN 55343 | \$ 5,466.00 | \$ 1,425.00 | \$ 1,237.50 | \$ 8,128.50 |
| | 225 9TH AVENUE NORTH | DOUGLAS C MITCHELL | 225 9TH AVE N | HOPKINS MN 55343 | \$ 2,087.86 | | \$ 1,237.50 | \$ 4,750.36 |
| | 226 9TH AVENUE NORTH | NANCY-FRANCE T OHMANN | 226 9TH AVE N | HOPKINS MN 55343 | \$ 5,466.00 | | \$ 1,237.50 | \$ 8,128.50 |
| | 229 9TH AVENUE NORTH | ALEX BRUNING SAMANTHA STRUBEL | 229 9TH AVE N | HOPKINS MN 55343 | \$ 2,087.86 | | \$ 1,237.50 | \$ 4,750.36 |
| | 230 9TH AVENUE NORTH | DUNCAN MACLACHLAN | 5345 LAKE SARAH HEIGHTS DR | INDEPENDENCE MN 55357 | \$ 5,466.00 | | \$ 1,237.50 | \$ 8,128.50 |
| | 233 9TH AVENUE NORTH | JOSEPH KERBER & MEGAN KERBER | 233 9TH AVE N | HOPKINS MN 55343 | \$ 2,087.86 | | \$ 1,237.50 | \$ 4,750.36 |
| | 234 9TH AVENUE NORTH | TIM YUICHUP WONG | 234 9TH AVE N | HOPKINS MN 55343 | \$ 5,466.00 | | | \$ 8,128.50 |
| | 237 9TH AVENUE NORTH | MARY F HATCHER | 237 9TH AVE N | HOPKINS MN 55343 | \$ 2,087.86 | | | \$ 4,750.36 |
| | 238 9TH AVENUE NORTH | CHRISTOPHER J LEEDAHL ANDREW WRIGHT REBECCA WRIGHT | 238 9TH AVE N 240 9TH AVE N | HOPKINS MN 55343 | \$ 5,466.00 | | | \$ 8,128.50 |
| | 240 9TH AVENUE NORTH | PAMELA K KNOLLS | 240 9TH AVE N 241 9TH AVE N | HOPKINS MN 55343 HOPKINS MN 55343 | \$ 4,919.40 \$ 1,541.26 | | \$ 1,237.50 \$ 1,237.50 | \$ 7,581.90 \$ 4,203.76 |
| | 241 9TH AVENUE NORTH | MICHAEL FALK KIMBERLY FALK | 241 9TH AVE N 245 9TH AVE N | HOPKINS MN 55343 HOPKINS MN 55343 | \$ 1,541.26 | | | \$ 4,203.76 |
| | | DIVIDED FALK KNIVIDERLI FALK | ATO JIT AVE IN | | 1,322.62 | 1,425.00 | | |
| | 246 9TH AVENUE NORTH | HOLLIE KROEHLER | 246 9TH AVE N | HOPKINS MN 55343 | \$ 4,700,76 | \$ 1.425.00 | \$ 1.237.50 | \$ 7,363.26 |

Appendix D: Resident Questionnaires & Neighborhood Meetings



PUBLIC WORKS-ENGINEERING DIVISION

CENTRAL AVENUES IMPROVEMENTS PHASE 2 QUESTIONNAIRE

PLEASE EMAIL TO NICK AMATUCCIO: NICKAM@BOLTON-MENK.COM BY: OCTOBER 2, 2024
QUESTIONNAIRES CAN ALSO BE MAILED TO NICK AT 12224 NICOLLET AVE, BURNSVILLE, MN 55337

This questionnaire is a valuable resource for the City in identifying issues to receive attention. Your comments are greatly appreciated. Questionnaire responses can also be given to one of the project team members during the Open House on October 2 at City Hall.

| 1. Have yo | DRAINAGE ou observed standing water in the street or your front yard after a significant rain? If so, where is it located? |
|--------------------|--|
| 2. | SANITARY SEWER, please indicate 'yes' with an X as applicable: We have NOT experienced problems with our sanitary sewer service. We have experienced problems or replaced our sewer service. Please describe: |
| 3. | WATERMAIN, please indicate 'yes' with an X as applicable: We have NOT experienced problems with our water service. We have experienced problems or replaced our water service. Please describe: |
| 4. Are then | PEDESTRIAN SAFETY & FACILITIES re any areas of concern with respect to pedestrian safety? If so, where? |
| 5. 6. Do you | IRRIGATION SYSTEM / INVISIBLE FENCE, please indicate 'yes' with an X as applicable: Yes, we have an irrigation system. Yes, we have an invisible pet fence. TREES / LANDSCAPING have concerns about the condition of trees or potential impacts to landscaping in your front yard? If so, describe. |
| 7. Please d | GENERAL COMMENTS / QUESTIONS lescribe any issues you suggest be considered as part of this project: |
| The foll | owing information is optional but is useful if we have a question about your responses: |
| | Phone #: |
| Address | Email: |



Neighborhood Meeting #1 Central Avenues Improvements

Phase 2



City of Hopkins October 2, 2024

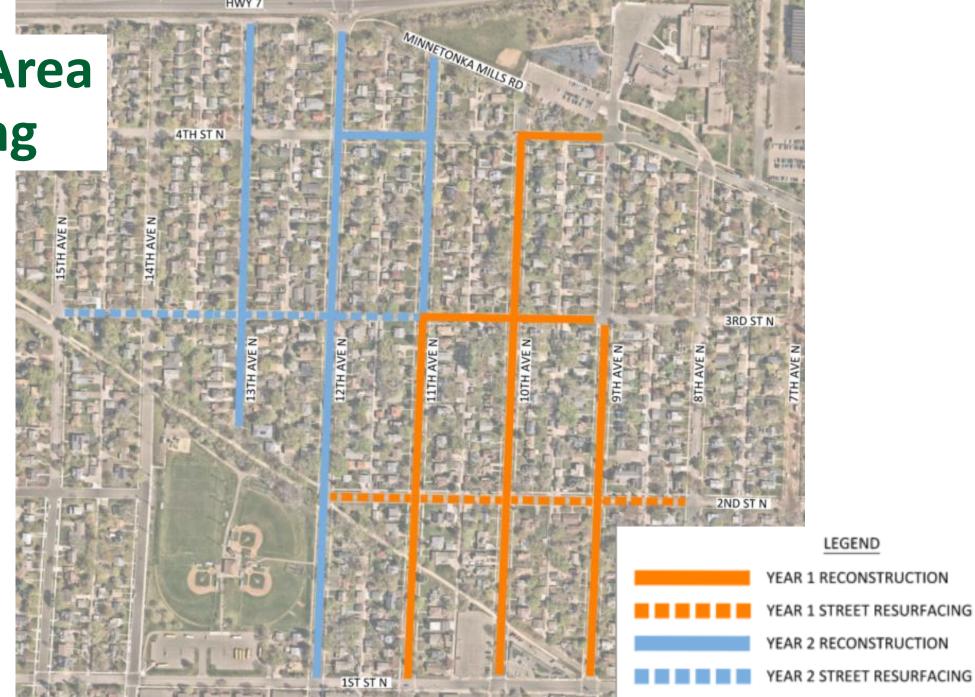


Project Development Process

Pavement Management Ratings & Utility Conditions Capital Improvements Plan (CIP) **Preliminary Design / Feasibility Stage** Final Design Construction



Project Area & Phasing





Resident Questionnaire Summary

47 Questionnaires Received as of October 1 (15% of the Neighborhood)

- Uneven sidewalks with standing water and ice build up in the winter
 - Existing sidewalks to be replaced on the North-South Avenues with adequate grade for drainage and safety
- Drainage issues in the street and curb throughout the neighborhood
 - New curb & gutter and additional storm sewer catch basins as needed to improve drainage
- Sidewalk requested on some of the side streets; No sidewalk desired by residents on 13th Ave N where none now
 - No additional sidewalks are proposed currently where there are none existing today
 - Project team will be reaching out to 13th Ave N 400 Block residents to gauge level of interest in removing sidewalk
- 4-way stop signs requested at 10th Ave N/4th St N and other intersections throughout the neighborhood
 - Reviewed crash history/data over the last 5 years and only one crash reported at 10th Ave N/4th St N and was weather related
 - No changes are proposed for intersection traffic control within the project area
- Speeding and stop sign compliance along 12th Ave N
 - Less than one dozen crashes reported over the last 5 years and several of those involved parked vehicles
 - Project team evaluating potential geometric changes to the curb at intersections along 12th Ave N
- Safety for bicycles and pedestrians at Regional Trail crossings, especially at 12th Ave N and 2nd St N
 - Some reported crashes involving bicycles over the last 5 years at 12th Ave N & 2nd St N
 - Project team coordinating with Three Rivers Park District on potential trail crossing improvements at 12th, 11th, and 10th Avenues
- Protect healthy trees throughout the neighborhood
 - The project team will try to protect and save as many healthy trees as possible, but this is not always feasible
 - Trees within the boulevard and City right-of-way are evaluated by the project team and the City Forester

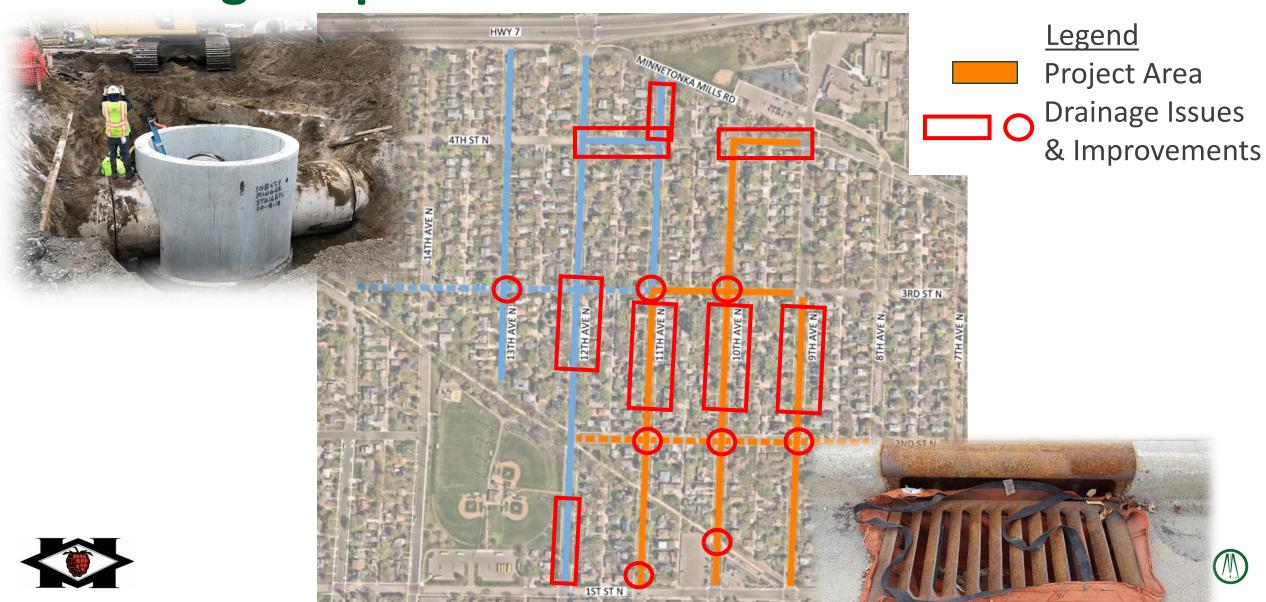


Street Improvements



| Existing & Proposed Street Widths | | | | | | | |
|--|---------------------|-------------------|--|--|--|--|--|
| Street Segment | Existing Width | Proposed Width | | | | | |
| 9 th Ave N, 1 st St N to 3 rd St N | 35' | 28' | | | | | |
| 10 th Ave N, 1 st St N to 4 th St N | 36' | 28' | | | | | |
| 11 th Ave N, 1 st St N to Mtka Mills Rd | 31' - 35' | 28' | | | | | |
| 12 th Ave N, 1 st St N to Hwy 7 | 36' | 36' | | | | | |
| 13 th Ave N, Trail to S. Service Dr. | 36' | 28' | | | | | |
| 3 rd St N, 9 th Ave N to 11 th Ave N | 30' | 28' | | | | | |
| 4 th St N, 9 th Ave N to 10 th Ave N | 36' | 36' | | | | | |
| 4 th St N, 11 th Ave N to 12 th Ave N | 36' | 36' | | | | | |
| 3 rd St N, 11 th Ave N to 15 th Ave N | Reclaim & Resurface | | | | | | |
| 2 nd St N, 8 th Ave N to 12 th Ave N Mill & Overlay | | | | | | | |

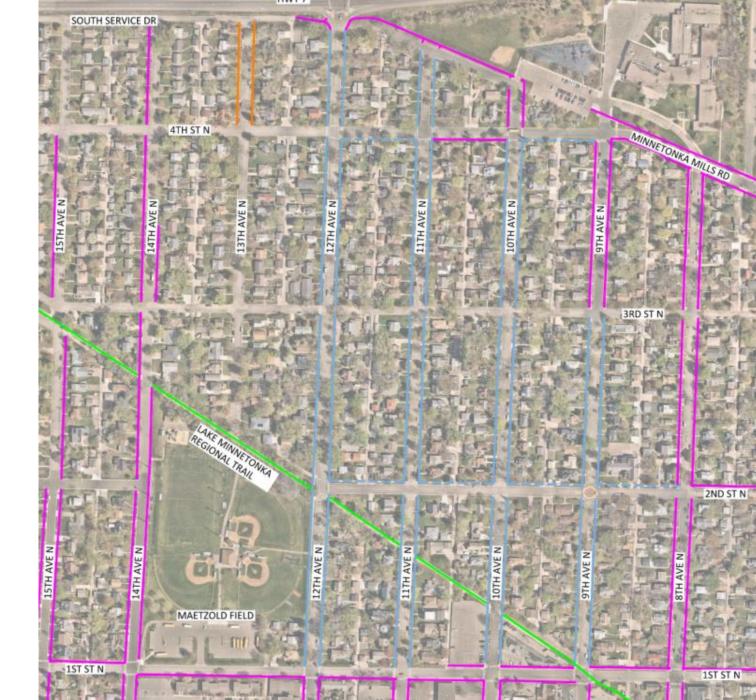
Drainage Improvements – Storm Sewer



Pedestrian Improvements

LEGEND







Utility Improvements – Sanitary Sewer









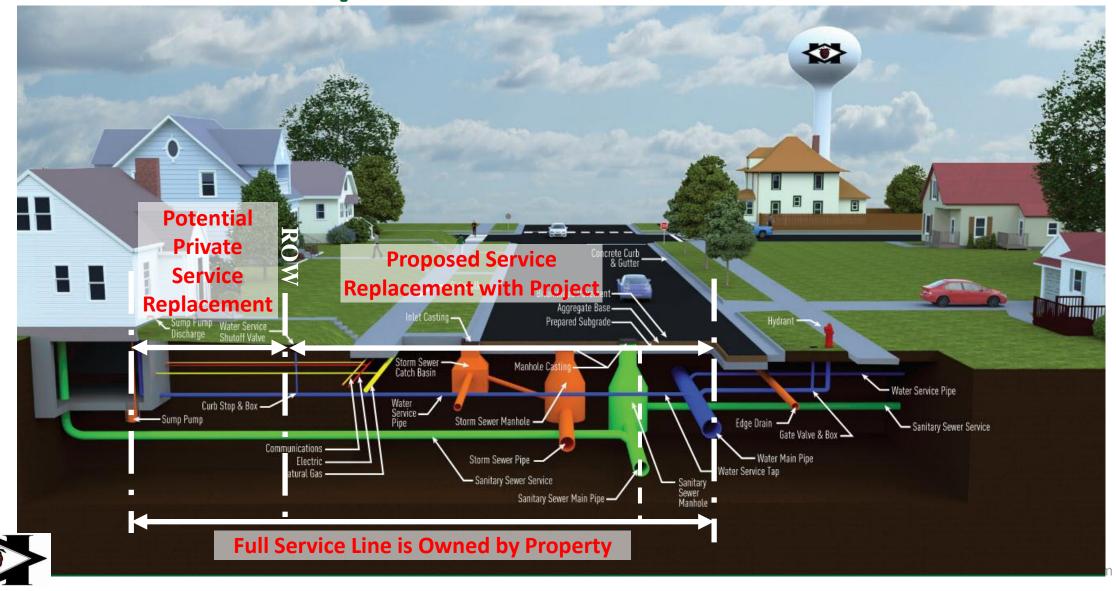
Utility Improvements – Watermain







Service Line Replacement





Boulevard Trees

Trees may be removed for one of the following reasons:

- Susceptible to disease or invasive species Ash trees
- Poor condition Dead, dying, leaning, etc.
- Conflict with utilities (Sewer and Water lines)
- Conflict with road construction or grading

Trees that are removed will be replaced with a new 2-inch diameter tree later that Fall or the following Spring





Source: extension.umn.edu/tree-and-shrub-insects/emerald-ash-borers



Special Assessment Policies

- •Assessments are proposed for all reconstructed streets (North-South Avenues; 4th St N; 3rd St N east of 11th Ave)
 - No assessments for pavement resurfacing/maintenance work (2nd St N; 3rd St N west of 11th Ave)
- Streets (Street Assessment)
 - •70% of the total street improvement cost
 - •Varies for each property based on front footage
 - Front foot rate subject to cap for residential properties; \$110 \$115 / front foot up to 125 feet
 - Benefit Appraisals for commercial properties (no cap) lower amount used (appraisal vs. policy)
 - •Streets with no adjacent property addresses (3rd St & 4th St) will be distributed one block north and south
- Utility Mains No Assessments
- Utility Services (Utility Assessment)
 - •50% of as-bid, actual service costs for residential; 100% of as-bid, actual service costs for commercial
- •Total Assessment = Utility Assessment + Street Assessment
- •Preliminary Assessment amounts will be mailed to each property receiving an assessment within the next month
 - Prior to Neighborhood Meeting #2 and the Public Improvement Hearing (City Council Meeting)



Project Schedule

October 2 – Neighborhood Meeting 1

• Review existing conditions, present proposed improvements, collect input

October 15 – City Council Meeting

Present Feasibility Report and Council calls for the public hearing

November 6 – Neighborhood Meeting 2

Review of proposed improvements, review preliminary assessments, collect input

November 12 – City Council Meeting

Council conducts public hearing on improvements and considers ordering final plans

Spring prior to the start of Construction – Neighborhood Meeting 3 & Public Hearing on Assessments

- Review final assessments and plans, discuss construction process, collect input
- Conduct public hearing on assessments and consider adopting assessments
- Award contract to low bidder

Spring/Summer 2025 or 2026 – Begin Construction

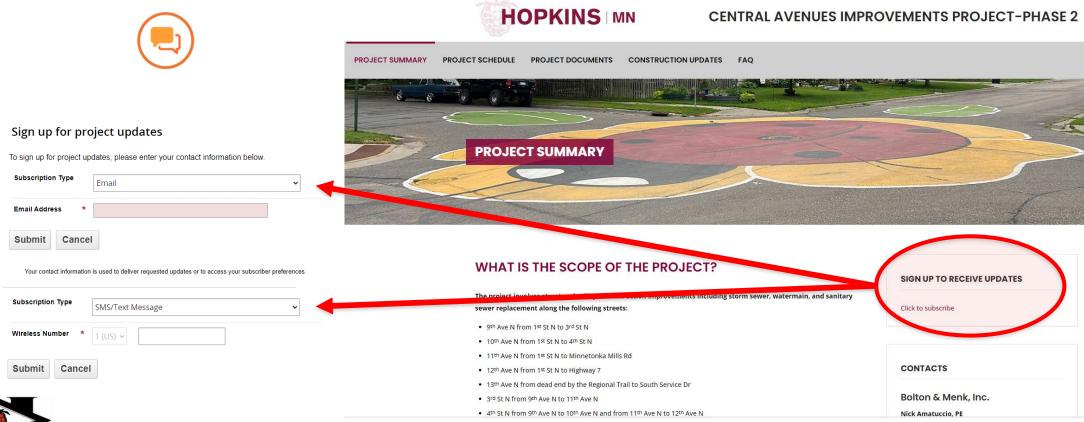
Fall 2026 or 2027 – Finish Construction



Project Communication

Bolton & Menk Project Website

www.HopkinsAvenuesProject.com







Project Contacts

Nick Amatuccio, P.E. – Project Manager

nickam@bolton-menk.com; 612-965-3926

Eric Klingbeil, P.E. – City Engineer

eklingbeil@hopkinsmn.com; 952-548-6357



Thank You! Any Questions?

Nick Amatuccio, PE Project Manager

Eric Klingbeil, PE City Engineer





Real People. Real Solutions.

Bolton-Menk.com



Real People. Real Solutions.

City of Hopkins Central Avenues Improvements Phase 2 Neighborhood Meeting 1



Time:

5:30 PM

Date: Location:

Name

October 2, 2024 Hopkins City Hall

Hopkins, MN

Address

Phone and/or Email

| Ivaliic | Address | Phone and/or Email |
|--|--------------------------|--------------------|
| Sennifer Allard | 305 11th Ave N | |
| Ethan Yanna | 301 11th Ave N | |
| Joanne Lynch | 321 12th Aug N | |
| Deb Mathisan | 334-10th Ave-No | |
| Barbara Hansen | 221.9th Ave no | |
| Tim Lewis | 304 10th AUE N. | |
| Bonnie & Bob Qum | 333 10th | |
| B4K FURAN | 323 10 P AVE N | |
| Pir Pavetta | 146 11th AUEN | |
| Tony Dalbec | 113 944 AVEN | |
| Chaisty Smith | 121-10+4 AVEN # 2 perple | |
| Jim Lossiam & Mana Barray | 205- 11= Ans N. | |
| FRUCE GOLDY | 234 10-4 AE, N | |
| Terry & Barb Sweeney | 221-11th AUR. N. | |
| Marti Priest | 110-12th Ave N | |
| Dolynchnks | 319 10th Aver | |
| Chris Sanclez | 213 9th Ave N | |
| Theresa Callahan | 317-11th AV.N. | |
| | 110 - 11 th Ave N. | |
| Mindywoods Butch Johnson Billee Kraut & Bitton Kr | 140-11Th Ave N | |
| Mertiane Sancher | 213 9+11 Aug N | |
| Chris Thancer | 306 16th AV N | |
| Dieta/ Bowa/ | 340 11th Sue 1/ | |



Real People. Real Solutions.

City of Hopkins Central Avenues Improvements Phase 2 Neighborhood Meeting 1



Time:

5:30 PM

Date: Location: October 2, 2024 Hopkins City Hall

Hopkins, MN

| Name | Address | Phone and/or Email |
|------------------------------|---|--------------------|
| Every Arimond Scott PRICE | 244 1/2 A.N. 338 12 TH AVE N | |
| Scott PRICE | 338 12TH AVE N | T |
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Summary of Neighborhood Meeting #1

Date: October 2, 2024

Location: Hopkins City Hall, Council Chambers

Key Discussion Points:

1. Street Narrowing:

Concerns raised about potential negative impacts on parking and traffic flow.

- City acknowledged concerns regarding snow removal and parking, especially on 9th Avenue where school buses operate, and explained the safety benefits of narrowing the roads including reduced vehicle speeds, shorter pedestrian crossings, and wider boulevards for snow storage, trees, and pedestrian safety.
- Residents emphasized the importance of emergency vehicle access, with specific mention of 12th Avenue remaining unchanged.
- City noted that they have been in contact with police and fire to confirm they do not have issues navigating the narrowed streets.
- Parking will remain on both sides of the streets regardless of narrowing streets.
 Some residents raised concern with this making the street unsafe.

2. Utility Improvements:

- Discussion on sewer system responsibilities and the connection process for homeowners.
- Residents will be informed by the inspector if their service connection needs to be replaced due to poor condition or non-compliant materials.
- Residents will not be assessed for a service replacement if it has been replaced to the City main in the street within the last ten years.

3. Pedestrian and Bicycle Improvements:

 City is coordinating with Three River Park District to enhance crossings and improve safety at the Regional Trail crossings on 12th Ave, 11th Ave, and 10th Ave, including the possibility of improved crosswalk markings and curb bump outs.

4. Boulevard Trees:

- Concerns about trees and their potential impact on utilities were discussed, including commitments to replace any removed trees when possible.
- Residents will have the opportunity to provide input on the selection of trees that will be replaced during the restoration process.

5. Special Assessments:

- Questions about assessment distances for properties bordered by regional trail, and that only the property frontage counts toward the assessment, not the public right of way.
- Conversation about cost assessment differences between narrowed vs current street width reconstruction, which there will be no difference because of the cap for residential properties on the street assessment.
- Questions about assessment notifications and the overall assessment process were addressed, with a commitment to keep residents informed and more details to come in the next neighborhood meeting.

6. Project Schedule:

- The project will not be completed in one construction season because it is not feasible to complete a project of this size in that timeframe.
- Residents were informed about bid processes and communication regarding project timelines.

7. General Concerns:

- Issues of construction timing and impacts on parking, particularly near schools, were raised.
- Residents questioned if City would allow overnight parking in public lots, like Alice Smith Elementary, during construction. City addressed this would be possible if needed and allowed by the School, but that it would be a last resort, and residents would be notified closer to construction impacts occurring.
- Residents expressed concerns over construction management, noise, and cleanliness during the project.

The meeting aimed to engage the community in discussions about the construction project, emphasizing the importance of feedback and transparency in the planning process.

Appendix E: Geotechnical Evaluation

Revised Geotechnical Evaluation Report

Central Avenue Improvements Various Streets Hopkins, Minnesota

Prepared for

Bolton & Menk, Inc.

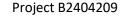
Professional Certification:

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.

Bradley J. McCarter, PE Director, Senior Engineer License Number: 48748

August 21, 2024





Braun Intertec Corporation





Braun Intertec Corporation 11001 Hampshire Avenue S Minneapolis, MN 55438 Phone: 952.995.2000 Fax: 952.995.2020 Web: braunintertec.com

August 21, 2024

Project B2404209

Nicholas Amatuccio, PE Bolton & Menk, Inc. 12224 Nicollet Avenue Burnsville, MN 55337

Re: Revised Geotechnical Evaluation

Central Avenue Improvements

Various Streets Hopkins, Minnesota

Dear Mr. Amatuccio:

We are pleased to present this Revised Geotechnical Evaluation Report for the Hopkins Central Avenue Improvements project in Hopkins, Minnesota. This report has been revised from its original version to reflect some changes to the planned pavement rehabilitation approaches along 3rd Street.

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 Brad McCarter at 952.995.2268 (bmccarter@braunintertec.com).

Sincerely,

BRAUN INTERTEC CORPORATION

Zachary T. Semlak Staff Engineer

Bradley J. McCarter, PE Director, Senior Engineer

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Appendix

Soil Boring Location Sketch
Log of Boring Sheets ST-1 through ST-22 (22 pages)
Photographic Log of Pavement Cores/Apparent Aggregate Base (5 pages)
Descriptive Terminology of Soil
State Aid 10 Ton ESAL Traffic Forecast Calculator (2 pages)
MnPAVE-Flexible Results (2 pages)



A. Introduction

A.1. Project Description

This Geotechnical Evaluation Report addresses the design and construction for the proposed roadway rehabilitation in Hopkins, Minnesota. Figure 1 shows the streets being addressed in this report. The project is proposing to perform spot or full utility repairs, along with performing a mill & overlay (two streets proposed), and either a full depth reclamation (FDR) or full reconstruction. Table 1 provides additional project details.

Table 1. Central Avenue Improvements - Project Details

| Project Component | Description | Source |
|--------------------------------|---|--|
| Pavement type | Bituminous | Bolton & Menk, Inc. (BMI) |
| Pavement rehabilitation method | Full Reconstruction or FDRMill & Overlay | BMI/City of Hopkins (City) |
| | 12th Avenue North: 216,000 Bituminous ESALs (BESALs) | MnDOT traffic mapping data and State Aid ESAL Calculator. Assumed the most recent 2021 count for design with a growth rate of 0.50 percent based on recent declining historical AADTs. |
| Pavement loads | 11th Avenue North (and all other streets highlighted and depicted in Figure 1): Less than 150,000 BESALs | MnDOT traffic mapping data and State Aid ESAL Calculator. Assumed the most recent 2021 count for design with a growth rate of 2 percent based on averaging traffic counts from previous years. |
| Grade changes | Street grades will generally remain within 1 foot of existing. | вмі |
| Utilities | Pipes with invert elevations of up to about 8 feet below grade in most cases and up to 15 feet near Boring ST-6. | Assumed |

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



The figure below shows an illustration of the proposed site layout from the provided Request for Proposal.



Figure 1. Proposed Pavement Rehabilitation

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

This site currently exists as developed residential roadways. This site is bounded by 8th Avenue North to the east, 1st Street North to the south, 15th Avenue North to the west and Highway 7 to the north. Existing grades currently range from about 921 feet at Boring PC-1 to about 949 feet at Boring ST-16 with



grades generally sloping downward to the south from Boring ST-16 to Boring ST-6 and generally sloping downward from Boring PC-5 to Boring PC-1.

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 use in the design and construction of the planned roadway improvement project.

A.4. Background Information and Reference Documents

We reviewed the following information:

- Request for Proposal from BMI and the City for Pavement Rehabilitation.
- Geologic Map M-178, Surficial Geology of the Twin Cities Metropolitan Area.
- Aerial images collected through Enterprise MnDOT MnDOT Mapping Application (EMMA), https://dotapp9.dot.state.mn.us/emma/.
- Topography maps from MNTOPO, an online web service of the Minnesota Department of Natural Resources, http://arcgis.dnr.state.mn.us/maps/mntopo/.

A.5. Scope of Services

We performed our scope of services for the project in accordance with our Proposal for a Geotechnical Evaluation (Proposal QTB195683), dated April 25, 2024. The following list describes the geotechnical tasks completed 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 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 and pavement cores.



- Performing the requested 22 standard penetration test (SPT) borings, denoted as ST-1 to ST-22, to nominal depths of 15 to 25 feet below grade across the site.
- Performing the requested five pavement core and shallow hand auger borings, denoted as
 PC-1 through PC-5, through the existing pavement section at select locations.
- 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 pavement
 subgrade preparation and the use in design and construction of utilities and pavement
 rehabilitation.

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

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. We did not perform a detailed investigation of the geologic history for the site.

B.2. Pavement Core Results

Table 2 provides a summary of the existing bituminous section thicknesses as measured at each of the pavement core locations. Note that aggregate base was observed and measured in the field by the coring crew to the nearest inch. Physical cores that were brought back for review, were measured to the nearest 1/4 inch.



We did not perform gradation analysis on the apparent aggregate base material encountered on the pavement section and cannot conclusively determine if the encountered material satisfies a particular specification. The aggregate base thicknesses should also be considered approximate, as the transitions between the aggregate base and the underlying subgrade are often difficult to accurately discern at depth.

Table 2. Summary of Pavement Section Thicknesses by Core Location

| Roadway | Boring Location | Bituminous Thickness (inches) | Apparent Aggregate Base Thickness (inches) | Core Condition |
|------------------|--------------------|-------------------------------------|---|---|
| | PC-1 | 5 | 5 | Good condition |
| | PC-2 | 4 1/2 | 4 | Good condition |
| 2nd Street North | PC-3 | 3 | 4 | Low severity stripping throughout. |
| | PC-4 | 5 | 5 | Upper 2 inches in good condition, lower 3 inches experiencing low severity stripping. |
| 3rd Street North | PC-5 | 2 | 7 | Low to medium severity stripping throughout. |

B.3. Boring Results

Table 3 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 3.

Table 3. Subsurface Profile Summary

| Strata | Soil Type - ASTM Classification | Range of N-Values | Commentary and Details |
|------------------|---------------------------------------|-------------------|--|
| Pavement section | | | Overall pavement thickness ranges about 1/2-foot to about 1 1/2 feet. Bituminous thicknesses range from about 2 inches to about 9 inches. Apparent aggregate base thicknesses range from about 3 inches to about 9 inches. |



| Strata | Soil Type - ASTM Classification | Range of N-Values | Commentary and Details |
|----------|---------------------------------------|-------------------|---|
| Fill | SP, SP-SM, SM, SC, CL | 2 to 32 | Extended to depths of about 4 1/2 feet to about 13 feet below grade surface. Highly variable, soils intermixed with granular and cohesive materials. Black organic layer encountered at Boring ST-17 at a depth of about 2 feet below grade surface extending to a depth of about 4 1/2 feet below grade surface. Variable amounts of gravel; may contain cobbles and boulders. Possible buried asphalt at a depth of about 10 feet below grade surface at Boring ST-18. Moisture condition generally moist. |
| Glacial | SP, SP-SM | 6 to 44 | Intermixed layers of glacial outwash and till.Variable amounts of gravel; may contain cobbles |
| deposits | SM, SC, CL, ML | 12 to 33 | and boulders.Moisture condition generally moist. |

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

B.4. Groundwater

Table 4 summarizes the depths where we observed groundwater; the attached Log of Boring sheets in the Appendix also include this information and additional details.

Table 4. Groundwater Summary

| Boring Location | Surface Elevation | Measured or Estimated Depth to Groundwater (feet) | Approximate Corresponding Groundwater Elevation (feet) |
|-----------------|----------------------|---|---|
| ST-1 | 926.0 | 13 1/2 | 912 1/2 |
| ST-2 | 924.0 | 11 | 913 |
| ST-4 | 927.6 | 13 | 914 1/2 |
| ST-6 | 930.0 | 19 | 911 |
| ST-10 | 925.7 | 13 | 913 |
| ST-13 | 946.6 | 13 | 933 1/2 |
| ST-17 | 925.0 | 12 | 913 |
| ST-21 | 933.5 | 7 1/2 | 926 |



At the time of our observation, the groundwater surface elevation appeared to range from about elevation 911 feet at Boring ST-6 to about an elevation of 933 1/2 feet at Boring ST-13. We anticipate hydrostatic groundwater generally below elevation 915 feet. Where Borings ST-13 and ST-21 encountered groundwater at higher elevations, we anticipate this to be more perched conditions based on the soil's condition (found within cohesive layers or silty layers).

Project planning should expect groundwater will fluctuate due to seasonal and annual fluctuations.

B.5. Laboratory Test Results

We performed laboratory testing on select soil samples to further classify them and help determine their engineering properties. The boring logs attached show the results of the laboratory testing we performed, next to the sample depth either in the moisture content column, "MC", or in the "Tests or Remarks" column.

C. Recommendations

C.1. Design and Construction Discussion

C.1.a. 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-17, greater than 5 percent organic content) 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 greater than 5 percent by weight 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.

C.1.b. Pavement Rehabilitation Options

Based on the RFP provided to us, Figure 1 depicts the original proposed FDR and mill & overlay streets for this project. Based on the results of our field exploration, the existing pavement sections generally across the project area appear suitable for the requested rehabilitation methods, as outlined in Figure 1, with the exception of 3rd Street North between 13th Avenue North and 15th Avenue North.



Where 3rd Street North between 13th Avenue North and 15th Avenue North, was originally proposed as a mill & overlay, we encountered a thinner pavement section where mill & overlay may be difficult to perform and may have more value performing a full-depth reclamation. Refer to Section C.4 for additional information.

Figure 2 provides a map outlining the updated pavement rehabilitation options for the project area.



Figure 2. Recommended Pavement Rehabilitation

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

C.1.c. 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 generally 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.d. Groundwater Control

Excavations for utility trenches at depth have the potential to encounter hydrostatic groundwater near elevation 915 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.e. 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.f. Potential Impacts on Adjacent Utility Lines

Excavations to remove and install the utilities may be wide if open cut methods are used due to sloughing of the granular soils, where encountered. The contractor should be aware of these conditions and take precautions to support any in-place utilities throughout construction.

C.1.g. Vibrations during Construction

Although low, construction and backfill operations may induce vibrations on neighboring structures. Long sustained or 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. Site Grading and Subgrade Preparation

The following sections provide our recommendations for the replacement of utilities (where applicable), and where subgrade preparation is performed. Please see the sections below for more details.

C.2.a. Subgrade Stabilization

Most onsite soils appear suitable for reuse as engineered fill within pavement subgrades and utility trenches, except where Boring ST-17 encountered organic lean clay with an organic content greater than 5 percent by weight. We recommend removing soils with organic contents greater than 5 percent by weight from below subgrade support of pavements and within a minimum of 2 feet below utility invert support. If organic soils, soft clays or water is encountered at invert grades, the project team may consider subcutting and replacement of these unsuitable soils with sand or crushed rock to prepare a proper subgrade for pipe support.

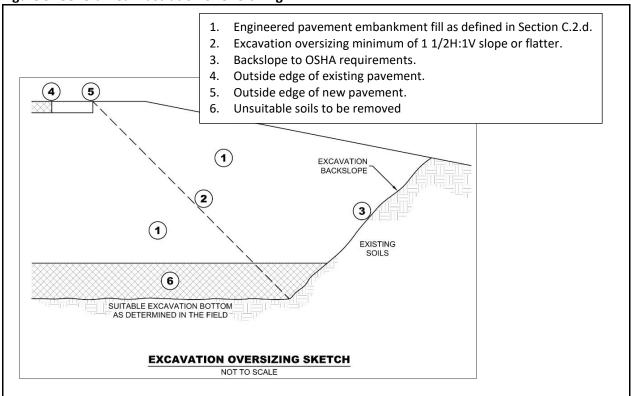
We anticipate some moisture conditioning of clays may be required (drying or wetting of materials). If imported material is needed, we recommend importing soils of a similar composition to those in-place to reduce the potential for water to become perched between differing soil types. Importing different 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.

C.2.b. Excavation Oversizing

When removing unsuitable materials below structures or pavements, we recommend the excavation extend outward and downward at a slope of 1H:1V (horizontal:vertical) or flatter. See Figure 3 for an illustration of excavation oversizing.



Figure 3. Generalized Illustration of Oversizing



C.2.c. Excavated Slopes

Based on the borings, we anticipate on-site soils in excavations will consist of fill soils and native granular soils at depth. These soils are typically considered Type C Soil under OSHA (Occupational Safety and Health Administration) guidelines. 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. Should perched water conditions be encountered, flatter inclinations would be warranted for stability.

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. Utility Trench Backfill/Subgrade Fill Materials and Compaction

We recommend that materials used as utility trench backfill and subgrade fill meet the requirements of the MnDOT specifications presented below in Table 5. 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 5. Engineered 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.2.e. Corrosion Potential

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.3. New Pavements

C.3.a. Full-Depth Reclamation (FDR)

For the proposed streets to be rehabilitated via FDR processes, reuse of pavement materials by reclamation, we recommend a 9-inch FDR. Based on the measurements from the borings, we anticipate near Borings ST-2, ST-5, ST-6 and ST-13, will encounter granular silty sand soils within the 9-inch FDR.



We anticipate near Boring ST-18 will encounter clay soils due to a thinner pavement section, and we recommend reducing the mill depth to the top of the subgrade and then excavating to the design depth of the pavement section. If there are other areas where similar conditions are encountered outside of our boring/pavement core locations, we recommend following the methods noted for Boring ST-18.

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.3.b. Pavement Subgrade Preparation

We recommend the following steps for pavement subgrade preparation for the Reconstruction/FDR areas, understanding the reconstruction/FDR will generally match existing grades. Note that project planning may need to require additional subcuts to limit frost heave or remove unsuitable materials.

- Remove or reclaim pavements (See Section C.3.a), and stockpile/windrow the existing pavement.
- Have a geotechnical representative observe the excavated subgrade to evaluate if additional subgrade improvements are necessary.
- Surface compact subgrade soils.
- Place pavement engineered fill to grade where required and compact in accordance with Section C.2.d. to bottom of pavement section.
- Proofroll the pavement subgrade as described in Section C.3.c. 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.c. Pavement Subgrade Proofroll

After preparing the subgrade as described above and prior to the placement of the aggregate base, we recommend proofrolling the subgrade soils with a fully loaded tandem-axle truck. We also recommend having a geotechnical representative observe the proofroll. Areas that fail the proofroll likely indicate soft or weak areas that will require additional soil correction work to support pavements.



The contractor should correct areas that display excessive yielding or rutting (typically more than 1 inch) during the proofroll, and 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.3.d. Reconstruction and FDR Design

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 the mix of soils similar to the silty, clayey and sandy material that are anticipated at the pavement subgrade elevation, we recommend pavement design assume an R-value of 20. Note the contractor may need to perform limited removal of unsuitable or less suitable soils to achieve this value.

Based on our assumed R-value and anticipated traffic counts, the provided section in Table 6 appears to meet and/or exceed the minimum requirements for 12th Avenue North. We have also provided the City of Hopkins typical residential pavement section in Table 7, which also appears to meet and/or exceed the minimum requirements based on MnPAVE-Flexible and its monte carlo simulation.

Table 6. Proposed Bituminous Pavement Section - 12th Ave N

| Material | Thickness (inches) | Designation | Material Specification |
|----------------------------|-----------------------|-------------------|------------------------|
| Bituminous wear course | 2 | SPWEA340C | MnDOT 2360 |
| Bituminous non-wear course | 3 | SPNWB330C | MnDOT 2360 |
| Aggregate base/Reclaim | 8 | Class 5 or 6; FDR | MnDOT 2215 |
| Approved subgrade | | | |

Table 7. Proposed Bituminous Pavement Section – Residential Streets

| Material | Thickness (inches) | Designation | Material Specification |
|----------------------------|-----------------------|-------------------|------------------------|
| Bituminous wear course | 2 | SPWEA240C | MnDOT 2360 |
| Bituminous non-wear course | 2 | SPNWB230C | MnDOT 2360 |
| Aggregate base/Reclaim | 8 | Class 5 or 6; FDR | MnDOT 2215 |
| Approved subgrade | | | |



We understand that sand subbase sections have been used on previous projects and may be required by the City. If desired and elected, a 12-inch-thick sand subbase could be incorporated following requirements of MnDOT specification 2112, to aid in prolonging the life of the pavement. A layer of separator fabric placed below the sand and drain tile placed throughout the sand section will be necessary for long term pavement performance.

C.3.e. Subgrade Drainage

Given the layered granular and cohesive soil layers, 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 edges where exterior grades promote drainage toward those edge areas. The contractor should place drainpipes in small trenches, extended below the granular subbase layer, or below the aggregate base material where no sand subbase is present.

C.3.f. 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 the exterior slabs and 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. Mill-and-Overlay

We recommend milling the pavements, for the streets depicted in Figure 1 in accordance with MnDOT Specification 2232. The mill depth will vary based on conditions encountered but should be a minimum depth of 2 inches, meeting recommended mixes noted above in Table 7. Pavement depth can vary between the boring and core locations. The contractor may need to adjust the mill depth to account for unexpected conditions such as areas of thin pavement.



For 3rd Street between 13th and 15th Avenue North, which was originally proposed as a mill & overlay location, we recommend this section of the street be either reconstructed or via FDR. See Section C.3. for recommendations via these two methods.

The surface condition prior to milling can indicate where deeper repairs to the milled surface may be necessary to improve the life of the overlay. This includes distresses such as severe longitudinal and transverse cracking, alligator/fatigue cracking of any severity, potholes, edge cracking, and similar failures. MnDOT defines these distresses in their surface rating procedure as follows:

- High-severity transverse cracking: Any crack running transverse to the centerline of the roadway with significant adjacent random cracking (12 inches or more apart), have large areas of spalling, missing material and/or potholes.
- High-severity longitudinal cracking: Any crack running parallel to the centerline of the roadway with significant adjacent random cracking (12 inches or more apart), large areas of spalling, missing material and/or potholes.
- Alligator cracking: A series of interconnected cracks forming many-sided, sharp-angled pieces, 6 inches or less in size, typically located in the wheel paths and under concentrated traffic loads.

We recommend an experienced engineer walk the milled surface to delineate areas for these repairs based on conditions exposed by the milling process. We recommend performing the full-depth mill to at least 1 foot beyond the edge of the visible distresses where present.

Preservation of these segments via mill and overlay will result in a service life of 12 to 18 years before similar rehabilitation is required. Additional work, such as repairing damaged curb edges or patching large distresses, could help prolong the service life.

D. Procedures

D.1. Penetration Test Borings

We drilled the penetration test borings with a truck-mounted core and auger drill equipped with hollowstem 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. Manual Exploration

D.2.a. Hand Auger Borings

We drilled hand auger borings with a 1 1/4-inch-diameter screw auger. We advanced the borings in 2- to 4-inch increments to depths of 2 to 3 feet below bottom of pavement apparent aggregate base elevations. We then withdrew the auger from the borehole to obtain cuttings. We made preliminary estimates of soil consistency and density based on resistance to penetration of the hand auger and the turning resistance.

D.3. Exploration Logs

D.3.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.3.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.4. Material Classification and Testing

D.4.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.4.b. Laboratory Testing

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

D.5. Groundwater Measurements

The drillers checked for groundwater while advancing the penetration test borings, and again after auger withdrawal. We then filled the boreholes or allowed them to remain open for an extended period of observation, 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.

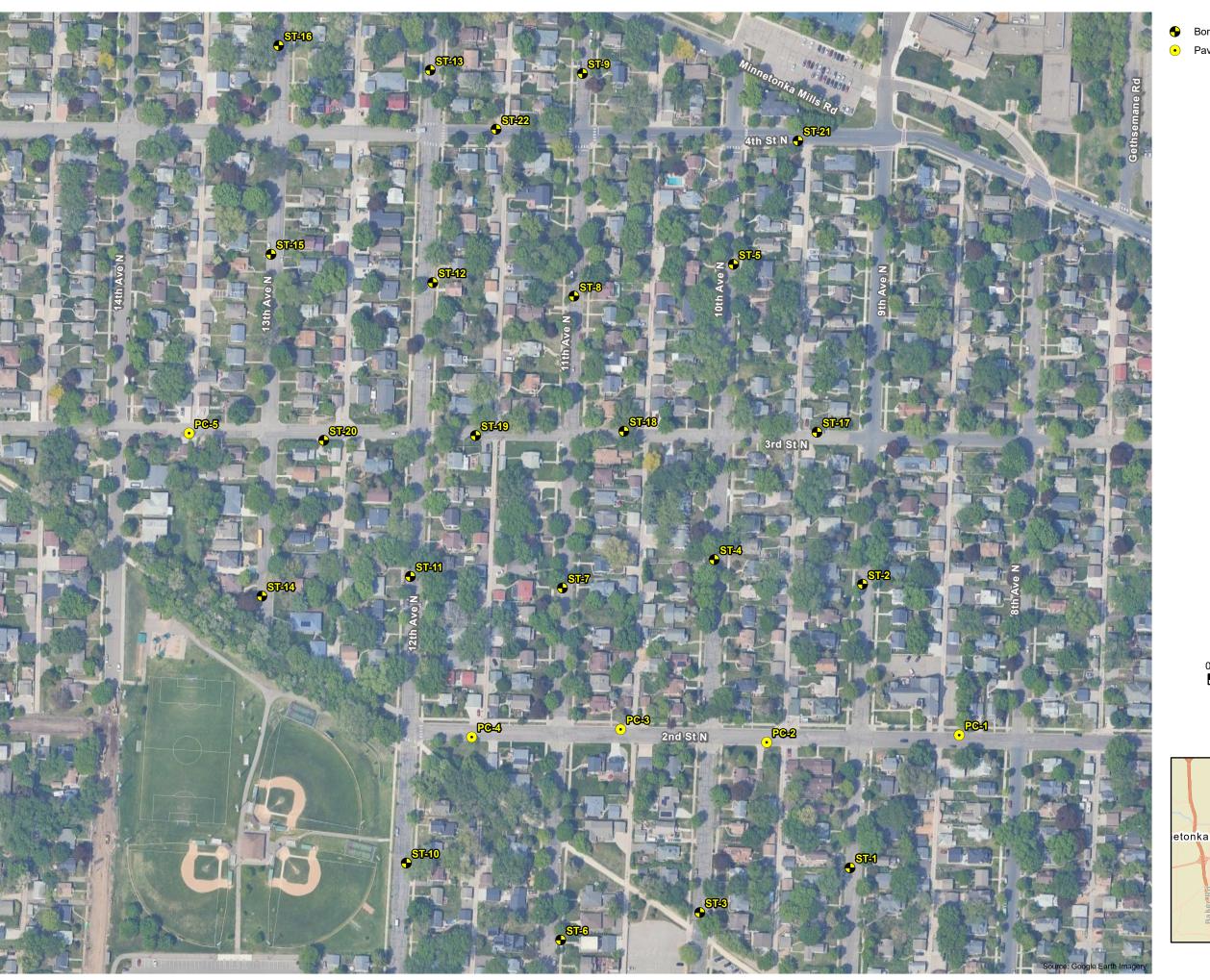
E.4. Standard of Care

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





- Boring Location
- Pavement Core and HAB

1" = 200 Feet

St. Louis F

Excelsior Blv



11001 Hampshire Avenue S Minneapolis, MN 55438 952.995.2000 braunintertec.com



Project No: B2404209

Drawing No: Boring Location Sketch

Drawn By: Date Drawn: 5/14/2024 ZTS Checked By: Last Modified: 7/22/2024

Central Avenue Improvements Project

Various Streets

Hopkins, Minnesota

Boring Location Sketch

Figure 1

| Geotechnical Evaluation Central Avenue Improvements Project Various Streets Hopkins, Minnesota DRILLER: C McClain LOGGED BY: Z Semlak LOCATION: Captured with RTK GPS. DATUM: NAD 1983 HARN Adj MN Hennepin (US Feet) NORTHING: 149614.7 EASTING: 492755 | Droinet Nu | umbar B240420 | 10 | | | S | | Terminol | ogy sheet | | of abbreviations |
|--|-----------------------|--|--|----------------------------------|------------|--------|--|----------|------------|---------------|------------------|
| Central Avenue Improvements Project Various Streets Hopkins, Minnesota DRILLER: C McClain LOGGED BY: Semilak START DATE: 06/24/24 Elevy Depth Rig: 1514 Description of Material 1101-1-2608) Depth Rig: 1514 Description of Material SURFACING: Bituminous WEATHER: Ci McC Recovery Rig: NoRTHING: 14961244 END DATE: ORIGINAL Righting Description of Material WEATHER: CI McC Recovery Recovery List McC Material Recovery List McC Recovery Lis | | | | | | | BORING: | Cantura | d with DTI | ST-1 | |
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| Section Sect | SURFACE ELEVATION: | 926.0 ft RIG: 75 | 514 | METHOD: | 3 1/4" HSA | | SURFACING | i: Bi | tuminous | WEATHER: | Clear |
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| Hopkin | s, N | /linne | esot | ta | | | | | NORTHING: | 1: | 50230 | EASTING: | 492780 |
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| SURFACE ELEVATION: | | 924.0 | ft | RIG: 7 | 514 | METHOD: | 3 1/4" HSA | | SURFACING | S: Bi | tuminous | WEATHER: | Clear |
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| | | | | | | | | | | | | | |

| Project | Nu | mbe | r B | 240420 | 9 | | | | | BORING: | | -gy | ST-3 | or appreviations |
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| E | | | | | Y GRADED SA d, trace Grave | | | | | (8) 8" | | 4 | P200=5% | |
| 924.7 | | | | | | | | | | 2-3-6 | | | | |
| _ 7.0 | | | | | ADED SAND (ed, light brown | | | | 7 | (9) 12" | | | | |
| _ | | | | | IAL OUTWASH | | ose to | | 7 | 12" | | | | |
| L | | | | | | | | 10 | 7 | 2-3-39 | | | | |
| E | | | | | | | | | 7 | (42) 9" | | | | |
| E | | | | | | | | | | | | | | |
| 918.7 | | | | | | | | | | 9-12-13 | | | | |
| _ 13.0 | | | | | (SM), fine to m prown, moist, r | | | $\overline{}$ | 7 | (25) | | | | |
| 917.2 14.5 | | | | ACIAL TIL | L) | | | 15 — | 7 | 10" | | | Water not obs | served while |
| - | | | | | END OF BOI | RING | | 13 | | | | | drilling. | |
| F | | | Во | rina then | backfilled wi | th auger c | cuttinas | | | | | | | |
| E | | | | | | | 9- | | | | | | | |
| | | | | | | | | | | | | | | |
| L | | | | | | | | 20 | | | | | | |
| <u> </u> | | | | | | | | | | | | | | |
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| Ł | | | | | | | | | | | | | | |
| E | | | | | | | | | | | | | | |
| F | | | | | | | | 25 | | | | | | |
| L | | | | | | | | | | | | | | |
| E | | | | | | | | | | | | | | |
| Ł | | | | | | | | | | | | | | |
| Ł | | | | | | | | | | | | | | |
| L | | | | | | | | 30 — | | | | | | |
| L | | | | | | | | | | | | | | |
| L | | | | | | | | | | | | | | |
| B2404209 | | | | | | Pro | ın Intertec C | ornoratio | <u></u> | г | Print Dota: | 8/06/2024 | ST | -3 page 1 of 1 |

| Project | Nu | mbe | r B | 240420 |)9 | | | | BORING: | Terrinion | ogy sileet | ST-4 | or appreviations |
|---|----------------|-------|--|---|--|--|--|----------|--|-----------------------|------------|--------------------------------------|------------------|
| Geotech | | | | | | | | | LOCATION: | Captured | d with RTh | | |
| Central | Αv | enue | e Im | | ments Proj | ect | | | | | | | |
| Various | | | | | | | | | DATUM: N | AD 1983 | HARN Ad | j MN Hennepin | (US Feet) |
| Hopkins | s, N | /linn | eso | ta | | | | | NORTHING | : 150 | 0282.2 | EASTING: | 492461.6 |
| DRILLER: | | С | McC | lain | LOGGED BY: | _ | Z Semlak | | START DAT | E: | 06/24/24 | END DATE: | 06/24/24 |
| SURFACE ELEVATION: | | 927.6 | ft | RIG: 7 | 7514 | METHOD: | 3 1/4" HSA | | SURFACING | G: Bit | uminous | WEATHER: | Clear |
| Elev./ Depth ft | Water Level | | (Soi | | escription of Ma D2488 or 2487; 1110-1-290 | Rock-USA | CE EM | Sample | Blows (N-Value) Recovery | q _₽ tsf | MC % | Tests or | Remarks |
| 926.6 0.9 925.6 2.0 923.1 4.5 920.6 7.0 918.1 9.5 - 914.6 13.0 913.1 14.5 | | | FILL brow FILL brow FILL med brow POC grain med | es of app :: SILTY somed, trace :: SILTY somed, trace :: CLAYE vn, moist :: POORL :: POORL ilium-grain vn, moist DRLY GR ilium dens DRLY GR ilium-grain st, medium | LY GRADED SA | e base e to coarse- prown, moise to medium n, moist trace Grave AND (SP), f el, brown to SP), fine to prown, mois UTWASH) SP), fine to el, light bro CIAL OUTW RING | ine to b light coarse- 10 t, wn, /ASH) | 5 | 11-1-4 (5) 14" 2-3-4 (7) 16" 5-7-11 (18) 6" 3-6-11 (17) 12" 1-4-8 (12) 14" | | 3 | P200=5% Water observ while drilling. | ed at 13.0 feet |
| - - - - - - - | | | | | | | 31 | 0- | | | | | |
| | | | | | | | | | | | | | |
| B2404209 | | | | | | Brau | n Intertec Cor | noration | F | Print Date:0 | 8/06/2024 | ST | -4 page 1 of 1 |

| Project I | Numbe | r B | 2404209 |) | | | | BORING: | Terrinion | ogy sileet | ST-5 | or appreviations |
|---|--------|---|---|---|---|---------------------------|--------|---|-----------------------|------------|---------------|------------------|
| Geotech | | | | | | | | LOCATION: | Estimate | d. | <u> </u> | |
| | | | | nents Proj | ect | | | | | | | |
| Various | Street | S | | - | | | | DATUM: N | AD 1983 | HARN Ad | j MN Hennepin | (US Feet) |
| Hopkins | , Minn | eso | ta | | | | | NORTHING | : 15 | 50920 | EASTING: | 492505 |
| DRILLER: | C | C McC | lain | LOGGED BY: | | Z Semlak | | START DAT | E: | 06/24/24 | END DATE: | 06/24/24 |
| SURFACE ELEVATION: | 932.0 |) ft | RIG: 75 | 14 | METHOD: | 3 1/4" HSA | A | SURFACIN | G: Bit | tuminous | WEATHER: | Clear |
| Elev./ 5 | Level | (Soi | | scription of Ma 2488 or 2487; 1110-1-2908 | Rock-USA | CE EM | Sample | Blows (N-Value) Recovery | q _₽ tsf | MC % | Tests or | Remarks |
| ft = 931.2 | | inch FILL grain FILL med mois No SILT trace dens | es of appa :: SILTY SA ned, trace (:: POORLY dium-graine st recovery a TY SAND (3 e Gravel, b se (GLACIA | inches of bituing rent aggregate AND (SM), fine Grave GRADED SA and trace Grave at 5 feet SM), fine to marrown, moist, descriptions. | minous ove e base e to mediur , moist ND (SP), f el, light bro | fine to own, ined, edium | 5 | 1-3-4 (7) 12" 5-9-12 (21) 0" 33-20-13 (33) 8" 5-8-9 (17) 17" 7-8-9 (17) 18" | | 6 2 | Water not obs | erved while |
| - - - - - - - - - - - - - - - - - - - | | 25 | | | | | | | | | | |
| B2404209 | | | | | D | ın Intertec Co | - I | <u>, </u> | wint Dat - 1 | 08/06/2024 | ST | -5 page 1 of 1 |

| Project | Nu | mber | B240420 | 9 | | | | BORING: | 7 10111111101 | ogy chock | ST-6 | oi appreviations |
|---|----------------|-----------------------------------|--|--|---|---|----------------------------------|---|-----------------------|---------------------------------|------------------|------------------|
| | | | aluation | | | | | LOCATION | : Estimate | d. | | |
| | | | Improver | nents Proj | ect | | | DATIMA: A | IAD 4000 | | i MNI Llana sais | (IIS Eggt) |
| Various Hopkins | | | enta | | | | | | | | MN Hennepin | , , |
| <u> </u> | 5, I | | | | | | | NORTHING | | 19460 | EASTING: | 492130 |
| DRILLER: SURFACE | | | cClain | LOGGED BY: | | Z Semlak | | START DAT | | 06/24/24 | | 06/24/24 |
| ELEVATION: | | 930.0 ft | | 514 | METHOD: | 3 1/4" HS | | SURFACIN | G: Br | tuminous | WEATHER: | Clear |
| Elev./ Depth ft | Water Level | (\$ | | escription of Ma 2488 or 2487; 1110-1-2908 | Rock-USA | CE EM | Sample | Blows (N-Value) Recovery | q _p tsf | MC % | Tests or | Remarks |
| _ 929.3 _ 0.7 - 928.0 _ 2.0 - 926.0 _ 4.0 _ 923.0 | | F gi bl F (\$\frac{tr}{r}\) | ILL: SILTY S rained, conta lack, moist ILL: POORL' SP-SM), fine ace Gravel, ILL: POORL' nedium-grain noist | B inches of bitu AND (SM), find ins seams of C Y GRADED GF to coarse-grain brown, moist Y GRADED SA ed, trace Grave | e to coarse Clay, trace (RAVEL with ned, CLAY AND (SP), f el, light bro | Gravel, SILT layers, ine to wn, | 5— | 1-2-4 (6) 9" 2-3-3 (6) 6" 1-1-2 | | 6 | | |
| _ 7.0 918.0 | | | | LEAN CLAY (0 grayish brown | | | 10 | (3) 18" 2-5-11 (16) 10" | | 24 | | |
| 12.0 | | m G | nedium-grain | ADED SAND (Sed, contains serown, moist, m | eams of Sill | t, trace se | 15 — | 6-8-11 (19) 13" 5-9-10 (19) 14" | | | | |
| 910.5 19.5 | abla | fii | | ADED SAND w grained, brown e | | 20 | 9-9-8 (17) 12" 25-26-18 | | 12 | | | |
| | | 1 | | END OF BOF | uttings | 25 - 30 - 30 - 30 - 30 - 30 - 30 - 30 - 3 | (44) 14" | | | Water observ while drilling. | ed at 19.0 feet | |
| B2404209 | | | | | Draw | n Intertec Co | rporation | | Print Date:0 | 0/06/2024 | L ST | -6 page 1 of 1 |

| Project | Numbe | r B2 | 240420 | 9 | | | | BORING: | 10111111101 | ogy onloor | ST-7 | or appreviations |
|--|----------------|---|---|--|---|------------------|--------|---|--------------|------------|----------------------------|------------------|
| Geotech | | | | | | | | LOCATION | Capture | d with RTh | | |
| | | | prover | nents Proj | ect | | | | | | | |
| Various | | | | | | | | DATUM: N | IAD 1983 | HARN Ad | j MN Hennepin | (US Feet) |
| Hopkins | s, Minne | eso | ta | | | | | NORTHING | i: 15 | 0220.5 | EASTING: | 492132.7 |
| DRILLER: | С | McCl | ain | LOGGED BY: | | Z Semlak | | START DAT | E: | 06/24/24 | END DATE: | 06/24/24 |
| SURFACE ELEVATION: | 929.6 | ft | RIG: 75 | 514 | METHOD: | 3 1/4" HSA | | SURFACIN | G: Bit | tuminous | WEATHER: | Clear |
| Elev./ Depth ft | Water Level | (Soil | | escription of Ma 2488 or 2487; 1110-1-290 | Rock-USA | CE EM | Sample | Blows (N-Value) Recovery | q₅ tsf | MC % | Tests or | Remarks |
| - 928.8 - 0.8 - 927.6 - 2.0 - 925.1 - 4.5 | | FILL grain FILL coan FILL (SP) | es of appa :: SILTY S ned, trace :: SILTY S se-graine :: POORL | 1/2 inches of arent aggregat AND (SM), find Gravel, dark b AND with GRA d, brown, mois Y GRADED SA parse-grained, | e base e to mediur rown, mois VEL (SM), t | m- st fine to | | 1-4-8 (12) 14" 9-8-10 (18) 10" 5-8-11 | | 5 | | |
| - - - 920.1 - 9.5 - - | | | | | | 10 | | (19) 13" 11-10-9 (19) 12" | | | | |
| | | END OF BORING Boring then backfilled with auger cuttings | | | | | | 7-10-12 (22) 13" | | | Water not obs drilling. | erved while |
| - - - - - - - | | | | | · | 20 | | | | | | |
| - - - - - | | | | | | 0.5 | _ | | | | | |
| - - - - - | | | | | | 25 | | | | | | |
| - - - - - | | | | | | 30 | | | | | | |
| B2404209 | | | | | Prou | ın Intertec Corp | | | Print Date:0 | 09/06/2024 | ST | -7 page 1 of 1 |

| D : (N D0(0)000 | See Descriptive Terminology sheet for explanation of abbreviations |
|--|--|
| Project Number B2404209 | BORING: ST-8 |
| Geotechnical Evaluation Central Avenue Improvements Project | LOCATION: Estimated. |
| Various Streets | DATUM: NAD 1983 HARN Adj MN Hennepin (US Feet) |
| Hopkins, Minnesota | NORTHING: 150850 EASTING: 492160 |
| DRILLER: C McClain LOGGED BY: Z Semlak | START DATE: 06/25/24 END DATE: 06/25/24 |
| SURFACE 936.0 ft RIG: 7514 METHOD: 3 1/4" HSA | SURFACING: Bituminous WEATHER: Clear |
| Elev./ Depth ft Description of Materials (Soil-ASTM D2488 or 2487; Rock-USACE EM 1110-1-2908) | Blows (N-Value) qp MC (N-Value) tsf % Tests or Remarks |
| ## Time of the part of the par | Recovery tsf % |
| 30— | |
| R2404200 Braun Intertee Corporatio | tion Print Data (18/06/2024 ST-8 page 1 of 1 |

| BORING: ST-9 | D : (N D | 0.10.1000 | | | | erminolo | ogy sheet | for explanation of | of abbreviations |
|--|--|--|---|---|---|-----------------------|------------|--------------------|------------------|
| Cantral Avenue Improvements Project Various Streets Hopkins, Minnes of the plane Hopk | | | | | | | | ST-9 | |
| DATUM: NAD 1983 HARNA Api MN Hemispin (US Feet) MORTHING: 15133.6.1 EASTING: 492175.8 | I . | | • | LC | OCATION: C | aptured | i with RTK | GPS. | |
| DRILLER: C McClair LOGGED BY: Z Semisk START DATE: 06/26/24 END DATE: 06/26 | | | • | DA | ATUM: NAI | 1983 | HARN Adj | j MN Hennepin (| US Feet) |
| SURFACING: SOURCE STATE SURFACING: SUMMINIOUS SUMMINIOUS SURFACING: SUMMINIOUS | Hopkins, Minneson | ta | | NC | ORTHING: | 151 | 1335.1 | EASTING: | 492175.8 |
| Description of Materials Description of Mate | DRILLER: C McCl | lain LOGGED BY: | Z Semlak | ST | ART DATE: | (| 06/26/24 | END DATE: | 06/26/24 |
| Company Comp | SURFACE 939.6 ft | RIG: 7514 ME | ETHOD: 3 1/4" HSA | SL | JRFACING: | Bit | uminous | WEATHER: | Clear |
| 1.1 | Depth by (Soil | il-ASTM D2488 or 2487; Roc | als ck-USACE EM | B (N- | Value) | q _p tsf | | Tests or F | Remarks |
| | - 938.5 - 1.1 - 937.6 - 2.0 - 935.1 - 4.5 | /EMENT, 7 1/2 inches of bituries of apparent aggregate bath: SILTY SAND (SM), fine to med, trace Gravel, black, moion: CLAYEY SAND (SC), trace wn, moist TY SAND (SM), fine to mediate Gravel, brown, moist, mediate ACIAL TILL) END OF BORING | minous over 6 ase medium- ist e Gravel, um-grained, ium dense 10 G 15 auger cuttings | 7 1 6 () 6 | -1-4 (5) 13" -5-7 (12) 15" -5-7 (12) 18" -7-6 (13) 15" | tsf | 7 | Water not obse | |
| | - - - - - - - - - - - - | | 25 — — | | | | | | |
| | - - - - - - | | 30 — | | | | | | |

| Project | Ni | mbo | r D | 24042 | <u> </u> | | | | | Se | BORING: | Terminol | ogy sheet | ST-10 | of abbreviations |
|-----------------------|-----------|-------|------|----------------------|----------|--------------------------------------|---|-----------|----------|----|--------------------------------|-----------------------|----------------|-----------------|------------------|
| Project Geotec | | | | | | | | | | | LOCATION: | Canture | d with RTk | | |
| Central | | | _ | | | ts Proi | ect | | | | LOCATION. | Japiure | u willi F\ I f | . OI O. | |
| Various | | | | .p. 0 v 0 | ,,,,, | | | | | | DATUM: N | AD 1983 | HARN Ad | j MN Hennepin | (US Feet) |
| Hopkin | s, N | /linn | eso | ta | | | | | | | NORTHING | : 14 | 9624.5 | EASTING: | 491794.3 |
| DRILLER: | | С | McC | lain | LOG | GGED BY: | | Z Semlak | (| | START DAT | E: | 06/25/24 | END DATE: | 06/25/24 |
| SURFACE ELEVATION: | | 925.7 | ft | RIG: | 7514 | | METHOD: | 3 1/4" HS | SA | | SURFACING | G: Bi | tuminous | WEATHER: | Clear |
| Elev./ Depth ft | Water | | (Soi | | D2488 | otion of Ma or 2487; 10-1-2908 | Rock-USA | CE EM | Sample | 5 | Blows (N-Value) Recovery | q _p tsf | MC % | Tests or | Remarks |
| - 924.4 | | | | | | inches of aggregate | bituminous e base | over 9 | | | | | 5 | | |
| - 1.3 | | | FILL | _: SILTÝ | SAND | (SM), fine | to mediur | | | _ | 1-4-4 | | | | |
| _ 923.7 2.0 - | | | FILL | _: SILTY | SAND | (SM), fine | ebris, brow to coarse layers, dar | - | ' | | (8) 14" | | 9 | P200=31% | |
| 921.2 4.5 | | | | : SILTY | | | e to mediur | | 5-\ | 7 | 4-4-4 (8) | | 11 | | |
| - - 010 7 | | | | ned, con k, moist | | eams of C | Clay, light b | rown to | 1 | 7 | 12" | | '' | | |
| 918.7 7.0 | | | | | | (SM), fine | to mediur | n- | | 7 | 1-3-2 (5) | | | | |
| | | | gran | neu, nac | e Glav | /ei, biowii | , moisi | | | 7 | 16" | | | | |
| 916.2 9.5 | | XXX | | | | | SP), fine to | | 10 | 7 | 6-10-12 (22) | | | | |
| - | | | | | | | rown, mois JTWASH) | t to wet, | 4 | 7 | 13" | | | | |
| | | | | | ` | | , | | _ | | | | | | |
| | \square | | | | | | | | + | 7 | 3-7-15 (22) | | | | |
| 911.2 14.5 | - | | | | ENID | OF BOF | DINIC | | / | 7 | (22) 8" | | | | ed at 13.0 feet |
| 14.5 | | | | | | | | | 15— | | | | | while drilling. | |
| <u>-</u> | | | Во | ring the | n bac | kfilled wit | th auger o | uttings | | | | | | | |
| - | | | | | | | | | | | | | | | |
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| <u> </u> | | | | | | | | | 20 | | | | | | |
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| <u>-</u> | | | | | | | | | | | | | | | |
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| <u> </u> | | | | | | | | | | | | | | | |
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| D0404000 | | | | | | | | | | | | | 20/00/0004 | OT. | |

| Project N | umber B | 2404209 |) | | | | BORING: | 10111111101 | ogy oncor | ST-11 | oi appreviations |
|-----------------------|-----------------------------|---|--|---|------------------|--------|--------------------------------|-----------------------|------------|---------------|------------------|
| Geotechn | | | | | | | LOCATION: | Capture | d with RTK | GPS. | |
| | | proven | nents Proj | ect | | | | | | | |
| Various S | | 4 - | | | | | | | | j MN Hennepin | |
| Hopkins, | Minneso | ta | | | | | NORTHING | i: 15 | 0245.7 | EASTING: | 491803.0 |
| DRILLER: | C McC | lain | LOGGED BY: | 1 | Z Semlak | | START DAT | E: | 06/25/24 | END DATE: | 06/25/24 |
| SURFACE ELEVATION: | 931.0 ft | RIG: 75 | | | 3 1/4" HSA | | SURFACIN | G: Bit | tuminous | WEATHER: | Clear |
| Elev./ Depth te | So (So | | scription of Ma 2488 or 2487; 1110-1-2908 | Rock-USA | CE EM | Sample | Blows (N-Value) Recovery | q _⋼ tsf | MC % | Tests or | Remarks |
| ft | PAV inch FILI deb FILI trac | nes of appa : CLAYEY ris, dark brown, moderate of the control of | 1/2 inches of rent aggregate SAND (SC), t own to brown, LEAN CLAY (0 | bituminous be base race Grave moist CL), trace C CL), SILT la bist BP), fine to rown, mois JTWASH) | coarse- 10 | | | tsf | 10 22 | Water not obs | |
| - - - - | | | 30 | | | | | | | | |
| B2404209 | | | | | ın Intertec Corp | | | Print Date:0 | 00/00/000 | ST- | 11 page 1 of 1 |

| Project | Numb | er B | 240420 | 9 | | | | BORING: | 10111111101 | ogy oncor | ST-12 | or approviduorio |
|---------------------------------|----------------|----------------|---|--|---|---|-----------|--|-----------------------|------------|-----------------------------------|------------------|
| Geotec | | | | | | | | LOCATION: | Estimate | d. | | |
| | | | nproven | nents Proj | ect | | | D 4 | AD 15=2 | | | |
| Various | | | 4 - | | | | | | | | j MN Hennepin (| US Feet) |
| Hopkin | s, Min | nesc | ota | | | | | NORTHING | : 15 | 50880 | EASTING: | 491850 |
| DRILLER: | | C McC | Clain | LOGGED BY: | | Z Semlak | | START DAT | E: | 06/25/24 | END DATE: | 06/25/24 |
| SURFACE ELEVATION: | 941 | .0 ft | RIG: 75 | | | 3 1/4" HSA | ١ | SURFACING | G: Bit | tuminous | WEATHER: | Clear |
| Elev./ Depth ft | Water Level | (So | | escription of Ma 2488 or 2487; 1110-1-2908 | Rock-USA | CE EM | Sample | Blows (N-Value) Recovery | q _⋼ tsf | MC % | Tests or I | Remarks |
| ft - 940.1 - 0.9 - 939.0 - 2.0 | | PO grai (GL | nes of appa L: SILTY S ined, trace st L: POORLY), fine to m ers, trace G | ADED SAND (Sins seams of Srown, moist, m | bituminous e base e to mediur ebris, dark ND with S , SILTY SA own, moist | m- brown, ILT (SP- AND) coarse- trace ise | 5 - \ | 1-4-6 (10) 12" 2-5-10 (15) 12" 6-8-9 (17) 16" 5-7-9 (16) 15" 4-8-11 (19) 16" | 151 | 6 | P200=10% Water not obsidrilling. | erved while |
| - - - - | | | | | | Ü | | | | | | |
| B2404209 | | | | | Pro | ın Intertec Co | rporation | | Print Data | 08/06/2024 | ST-1 | 2 page 1 of 1 |

| Various Hopkin: DRILLER: SURFACE ELEVATION: | hni Av St s, N | cal E enue reets //inne | Eval e Im s eso | uation | nents Proje | act | | | LOCATION: | Captured | d with RTh | (GPS | |
|---|-------------------------|----------------------------------|--|--|---|---|-------------------------|--------|---|-----------------------|------------|---------------------------------|-----------------|
| Various Hopkin: DRILLER: SURFACE ELEVATION: Elev./ Depth ft | St s, N | reets /linn | s eso | provem | ents Proje | act | | | LOCATION: Captured with RTK GPS. | | | | I |
| DRILLER: SURFACE ELEVATION: Elev./ Depth ft | s, N | /linn | eso | | | 5 01 | | | | | | | |
| DRILLER: SURFACE ELEVATION: Elev./ Depth ft | | С | | 4_ | | | | | | | | j MN Hennepin | |
| SURFACE ELEVATION: Elev./ Depth ft | ter vel | | | ta | | | | | NORTHING | : 15 | 1341.9 | EASTING: | 491846.0 |
| Elev./ Depth ft | ter Ve | 946 6 | McCl | lain | LOGGED BY: | | Z Semlak | | START DAT | E: | 06/25/24 | END DATE: | 06/25/24 |
| Depth ft | ter Vel | 0.0.0 | ft | RIG: 75 | 14 | METHOD: | 3 1/4" HSA | | SURFACING | G: Bit | tuminous | WEATHER: | Clear |
| 9/5 9 | Water Level | | (Soi | Des I-ASTM D2 | scription of Ma 2488 or 2487; I 1110-1-2908 | Rock-USA | CE EM | Sample | Blows (N-Value) Recovery | q _₽ tsf | MC % | Tests or | Remarks |
| - 944.6 - 2.0 - 942.1 - 4.5 | | | incher FILL grain wet FILL mois FILL mois No | es of appa :: SILTY SA ned, trace (:: SANDY L st :: SANDY L st recovery a | SM), fine to co rown, moist to | e base to coarse ebris, dark CL), dark bi CL), browni arse-grain | brown, rown, sh gray, 5 | | 1-1-2 (3) 13" 1-1-3 (4) 14" 3-6-6 (12) 0" 4-4-6 (10) 17" | | 26 | LL=31, PL=22 | 2, PI=9 |
| | \square | | | | PORTION OF BOR | | 15 uttings 20 | | 2-2-4 (6) 15" | | | Water observ while drilling. | ed at 13.0 feet |
| - - - - - - - - - - - - - - - - - - - | | | Braun Intertec Co | | | | | | | | | | |

| Project N | lumber l | B240420 | 9 | | | | BORING: | | | ST-14 | |
|---|---|--|--|---|---|--------|---|-----------------------|----------|-------------------------|-------------|
| Geotech | nical Ev | aluation | | | | | LOCATION: | Estimate | ed. | | |
| Central <i>A</i> Various S | | mproven | nents Proj | ect | | | DATUM: N | AD 1983 | HARN Ad | j MN Hennepin (| US Feet) |
| Hopkins, | | ota | | | | | NORTHING | | 50205 | EASTING: | 491480 |
| DRILLER: | <u></u> | :Clain | LOGGED BY: | | Z Semlak | | START DAT | | | END DATE: | 06/26/24 |
| SURFACE ELEVATION: | 928.0 ft | RIG: 75 | | METHOD: 3 | | | SURFACINO | | tuminous | | Clear |
| | S (S | | scription of Ma 2488 or 2487; 1110-1-2908 | Rock-USAC | E EM | Sample | Blows (N-Value) Recovery | q _₽ tsf | MC % | Tests or I | Remarks |
| - 927.1 - 926.0 - 2.0 - 923.5 - 4.5 - 921.0 - 7.0 | PA inu FI br FI SN mi | ches of appa LL: SILTY So own, moist LL: CLAYEY bist LL: POORLY M), coarse-g bist DORLY GRA edium-graine edium dense | inches of bituarent aggregate AND (SM), fine SAND (SC), to SAND (SC) and | e base e-grained, G trace roots, b AND with SIL Gravel, brown SP), fine to I, brown, mo ACIAL OUTV | ravel, prown, T (SP- 5 n, ist, VASH) | | 1-2-2 (4) 13" 3-4-6 (10) 11" 4-7-9 (16) 9" 4-9-9 (18) 12" 6-5-5 (10) 3" | | 1 | Water not obsidrilling. | erved while |

| Drainat N | lumbo | . D 4 | 240420 | 20 | | | | S | BORING: | Terminol | ogy sheet | stor explanation | of abbreviations |
|------------------------|---------|-------|-----------|--|-------------|----------|------|---------------------|--------------------------------|-----------------------|--------------|-------------------------|------------------|
| Project N Geotechi | | | | | | | | | LOCATION: | Canture | d with PTk | | |
| 1 | | | | ı ments Proj | ect | | | | LOCATION. | Capture | a wiui FCI f | VOFU. | |
| Various S | Streets | S | | | 001 | | | | DATUM: N | AD 1983 | HARN Ad | j MN Hennepin | (US Feet) |
| Hopkins, | , Minn | eso | ta | | | | | | NORTHING: | : 15 | 0943.9 | EASTING: | 491501.2 |
| DRILLER: | С | McC | lain | LOGGED BY: | | Z Semla | ak | | START DAT | E: | 06/26/24 | END DATE: | 06/26/24 |
| SURFACE ELEVATION: | 939.7 | ft | RIG: 7 | 7514 | METHOD: | 3 1/4" H | ISA | | SURFACINO | 3: Bi | tuminous | WEATHER: | Clear |
| Elev./ ja Depth fit | Level | (Soi | | escription of Ma D2488 or 2487; 1110-1-2908 | Rock-USA | CE EM | | Sample | Blows (N-Value) Recovery | q _⋼ tsf | MC % | Tests or | Remarks |
| 938.7 | | | | 6 1/2 inches of parent aggregate | | over 6 | | | | | 2 | | |
| _ 1.0 | | FILL | : LEAN (| CLAY (CL), dark | brown to b | rown, | | | 1-3-3 | | | | |
| - - | | mois | st | | | | | (6) 15" | | 27 | LL=32, PL=23 | 3, PI=9 | |
| - - - - | | Bro | own at 4 | 1/2 feet | | | | 1-3-3 (6) 14" | | | | | |
| 932.7 7.0 | | FILL | .: SANDY | LEAN CLAY (C | CL), brown, | moist | | \bigvee | 1-4-10 (14) 16" | | | | |
| 930.2 | | | | | | | | | | | | | |
| 9.5 | | trace | e Gravel, | (SM), fine to mobile to mo | | | 10 — | | 6-5-7 (12) 8" | | | | |
| - - - - | | | | | | | _ | $\sqrt{}$ | 2-3-3 (6) 9" | | | | |
| 925.2 14.5 | | | | END OF BOF | RING | | 15 — | | 9" | | | Water not obs drilling. | erved while |
| _ | | Во | ring the | n backfilled wit | h auger c | uttings | _ | | | | | | |
| _ | | | | | | | _ | | | | | | |
| | | | | | | | | | | | | | |
| _ | | | | | | | 20 — | | | | | | |
| <u> </u> | | | | | | | _ | | | | | | |
| _ | | | | | | | | | | | | | |
| _ | | | | | | | _ | | | | | | |
| <u> </u> | | | | | | | | | | | | | |
| F | | | | | | | 25 — | | | | | | |
| F | | | | | | | _ | | | | | | |
| _ | | | | | | | _ | | | | | | |
| F | | | | | | | _ | | | | | | |
| F | | | | | | | _ | | | | | | |
| <u> </u> | | | | | | | 30 — | | | | | | |
| F | | | | | | | _ | | | | | | |
| P0404000 | | | | | | | | | | | 20/00/2004 | OT 4 | |

| Project | Numb | er B | 240420 | 9 | | | | BORING: | 7 10111111101 | ogy oncor | ST-16 | |
|--|----------------|------------------------------------|--|--|--|--------------------------|--------|---|-----------------------|------------|----------------------------|---------------|
| Geoteci | | | | | | | | LOCATION | : Estimate | d. | | |
| | | | nprover | nents Proj | ect | | | D. (== 1 : - 1 : - 1 | IAD 4555 | | | |
| Various | | | 4 - | | | | | | | | j MN Hennepin (| US Feet) |
| Hopkins | s, Min | neso | ta | T | | | | NORTHING | 5: 19 | 51395 | EASTING: | 491520 |
| DRILLER: | | C McC | lain | LOGGED BY: | 1 | Z Semlal | k | START DAT | E: | 06/26/24 | END DATE: | 06/26/24 |
| SURFACE ELEVATION: | 949 | 9.0 ft | | 514 | METHOD: | 3 1/4" HS | SA | SURFACIN | G: Bi | tuminous | WEATHER: | Clear |
| Elev./ Depth ft | Water Level | (So | | escription of Ma 2488 or 2487; 1110-1-290 | Rock-USA | CE EM | Sample | Blows (N-Value) Recovery | q _p tsf | MC % | Tests or I | Remarks |
| 947.9 - 1.1 - 947.0 - 2.0 - 944.5 - 4.5 | | inch FILI \grai FILI | nes of appoints of | o inches of bituarent aggregat AND (SM), fin Gravel, dark bi LEAN CLAY (AND (SM), fin Gravel, dark b | e base e to mediur rown, moist CL), brown, e to mediur | m- t , moist m- | 5- | 1-3-4 (7) 10" 8-13-19 (32) | | 24 | LL=31, PL=22 | ., PI=9 |
| - 942.0 - 7.0 | | SIL ⁻ trac | ΓΥ SAND (e Gravel, l | (SM), fine to m brown, moist, i SLACIAL TILL) | edium-grai | ined, | 10- | 6" 28-19-13 (32) 15" 9-10-13 (23) 17" | | 6 | | |
| | | END OF BORING Boring then grouted | | | | | | 13-20-22 (42) 13" | | | Water not obs drilling. | erved while |
| - - - - - - - | | | | | | | 20 — | | | | | |
| - - - - - - | | | | | | | 25 — | | | | | |
| - - - - - - | | | | | | | | | | | | |
| B2404209 | | | | | | ın Intertec C |) | | Print Date: | 09/06/2023 | ST-1 | 6 page 1 of 1 |

| Project | Nu | mbe | r B | 2404209 |) | | | | | BORING: | TCTTTIITO | logy sheet | ST-17 | or appreviations |
|---|-----------|-------|----------------------|--------------------------------------|---|--------------|-----------------|----------|---------------------|------------------------------|-----------------------|------------|-----------------|------------------|
| Geotec | | | | | | | | | ī | LOCATION: | Estimate | ed. | | |
| | | | | | nents Proj | ect | | | L | | | | | |
| Various | St | reets | S | - | • | | | | I | DATUM: N | AD 1983 | HARN Ad | j MN Hennepin | (US Feet) |
| Hopkins | s, N | /linn | eso | ta | | | | | 1 | NORTHING | : 1 | 50560 | EASTING: | 492685 |
| DRILLER: | | С | McC | lain | LOGGED BY: | | Z Semlak | | 5 | START DAT | E: | 06/26/24 | END DATE: | 06/26/24 |
| SURFACE ELEVATION: | | 925.0 | ft | RIG: 75 | 14 | METHOD: | 3 1/4" HSA | ١ | 5 | SURFACING | G: B | tuminous | WEATHER: | Clear |
| | Water | | (Soi | | scription of Ma 2488 or 2487; 1110-1-2908 | Rock-USA | CE EM | Sample | (N R | Blows N-Value) ecovery | q _p tsf | MC % | Tests or | Remarks |
| - 924.2 - 0.8 - 923.0 - 2.0 - 920.5 | | | inch FILL brov | es of appa .: CLAYEY vn, moist | inches of bitur rent aggregate SAND (SC), to AY (CL), orga | el, dark | | | 1-1-3 (4) 16" | | 7 34 | OC=7% | | |
| 4.5 | | | FILL | .: SANDY I | EAN CLAY (C | CL), brown | , moist | 5-\ | | 1-2-3 (5) 14" | | 24 | LL=32, PL=2 | 1, PI=11 |
| 918.0 7.0 | | | | | SAND (SC), v rown, moist | vith layer o | of SAND, | | | 1-3-5 (8) 15" | | | | |
| 915.5 9.5 - - | | | fine | | DED SAND w -grained, brow TWASH) | | | 0-\ | | 1-2-2 (4) 13" | | | | |
| - - - - 910.5 | \square | | We | t at 12 fee | t | | | | | 1-1-1 (2) 18" | | | | |
| 14.5 - _ - - - | | | Во | | END OF BOF | | | 5— | | 10 | | | while drilling. | ed at 12.0 feet |
| - - - - - | | | | | | | 2 | 0- | | | | | | |
| - - - - | | | | | | | | _ | | | | | | |
| | | | | | | 2: | 5— | | | | | | | |
| - - - - - | | | | | | | | | | | | | | |
| - - - - | | | | | | | | | | | | | | |
| B2404209 | | | | | | Pro | un Intertec Cor | noration | | - | wint Date | 08/06/2024 | ST- | 17 page 1 of 1 |

| Project | Numb | er B | 240420 | 9 | | | | BORING: | 7 10111111101 | ogy chock | ST-18 | , abbroviations |
|-----------------------|----------------|--|---|--|--|---------------|---|--------------------------------|-----------------------|------------|----------------------------------|-----------------|
| Geoteci | | | | | | | | LOCATION | : Estimate | ed. | | |
| | | | nprover | ments Pro | ject | | | D (| | | | |
| Various | | | | | | | | | | HARN Ad | j MN Hennepin (| US Feet) |
| Hopkins | s, Minr | neso | ta | _ | | | | NORTHING | b: 1 | 50560 | EASTING: | 492265 |
| DRILLER: | | C McC | lain | LOGGED BY: | | Z Semlal | k | START DAT | E: | 06/26/24 | END DATE: | 06/26/24 |
| SURFACE ELEVATION: | 930. | 0 ft | RIG: 75 | 514 | METHOD: | 3 1/4" HS | SA | SURFACIN | G: Bi | tuminous | WEATHER: | Clear |
| Elev./ Depth ft | Water Level | (So | | escription of M 12488 or 2487; 1110-1-290 | Rock-USA | CE EM | Sample | Blows (N-Value) Recovery | q _p tsf | MC % | Tests or I | Remarks |
| #t | M | FILI Gra FILI SM Gra FILI grai brov PO Med (GL | nes of appa :: CLAYE\ :: POORL'), fine to m vel, brown :: SILTY S ned, conta wn, moist Ssible burn ORLY GRA dium-grain ACIAL OL | 2 inches of bituarent aggregaty SAND (SC), Y GRADED Sanedium-grained, moist SAND (SM), finains seams of the dealer of the deale | uminous ove te base dark brown AND with S d, with to tra e to mediur Clayey San 10 feet SP), fine to pist, medium | m- nd, | 5 — X — X — X — X — X — X — X — X — X — | | IST | 3 | P200=11% Water not obsidrilling. | |
| | | | | | | | | | | | | |
| <u> </u> | | | | | | | - | | | | | |
| B2404209 | | 1 | | | Pro | ın Intertec C | `ornoration | | Print Date:0 | 10/06/2024 | lST-1 | 8 page 1 of 1 |

| Project | Numb | er B | 240420 | 9 | | | | BORING: | 1011111101 | ogy oncor | ST-19 | or approviduorio |
|--|----------------|---------------|--|--|---|---------------|--|--|-----------------------|-----------|-------------------------|------------------|
| Geotec | | | | | | | | LOCATION | Estimate | d. | | |
| | | | nprover | nents Pro | ject | | | DATINA | AD /225 | | | |
| Various | | | 4- | | | | | | | | j MN Hennepin (| |
| Hopkins | * | | | | | | | NORTHING | | 50550 | EASTING: | 491945 |
| DRILLER: | | C McC | lain | LOGGED BY: | 1 | Z Semla | ık | START DAT | | 06/26/24 | END DATE: | 06/26/24 |
| SURFACE ELEVATION: | 933. | 0 ft | | 514 | METHOD: | 3 1/4" H | SA | SURFACIN | G: Bit | tumionus | WEATHER: | Clear |
| Elev./ Depth ft | Water Level | (So | | escription of M 2488 or 2487 1110-1-290 | Rock-USA | CE EM | Sample | Blows (N-Value) Recovery | q _p tsf | MC % | Tests or I | Remarks |
| ft - 931.9 - 1.1 - 931.0 - 2.0 - 2.0 - 7.0 - 923.5 - 9.5 - 9.5 - 12.0 - 12.0 - 14.5 | | FILI FILI moi | nes of appa :: SILTY S e Gravel, :: LEAN C :: SILTY S st ORLY GRA to mediur st, loose (control of the control of the c | ADED SAND (SA), find ADED SAND (SM), find ADED SAND | e-grained, I with SILT (See Gravel, betwash) SP), fine toel, brown, muttwash) RING | brown, P-SM), | 5 — X 10 — X 115 — — — — — — — — — — — — — — — — — — | 1-2-4 (6) 13" 1-3-4 (7) 15" 2-2-2 (4) 15" 3-4-6 (10) 16" 4-7-11 (18) 14" | | 3 19 | Water not obsidrilling. | erved while |
| - - - - | | | | | | | | | | | | |
| B2404209 | | | | | Pro | un Intertee | Corporation | r | Print Date:0 | 0000000 | ST-1 | 9 page 1 of 1 |

| Project | Nu | mbe | r B | 240420 | 9 | | | | BORING: | 0 1011111101 | ogy onloor | ST-20 | |
|--------------------------------|----------------|-------|----------------------|---|--|-------------------------|---------------|-------------|--------------------------------|-----------------------|------------|-----------------|----------------|
| Geotec | | | | | | | | | LOCATION | l: Estimate | ed. | | |
| | | | | prover | ments Pro | ject | | | | | | | |
| Various | | | _ | 4 - | | | | | | | | j MN Hennepin (| |
| Hopkin | s, N | /linn | eso | ta | T | | | | NORTHING | G: 1 | 50540 | EASTING: | 491615 |
| DRILLER: | | С | McC | lain | LOGGED BY: | _ | Z Semla | k | START DA | TE: | 06/26/24 | END DATE: | 06/26/24 |
| SURFACE ELEVATION: | | 933.0 | ft | RIG: 75 | 514 | METHOD: | 3 1/4" H | SA | SURFACIN | NG: Bi | tuminous | WEATHER: | Clear |
| Elev./ Depth ft | Water Level | | (Soi | | escription of M 12488 or 2487 1110-1-290 | Rock-USA | CE EM | Sample | Blows (N-Value) Recovery | q _₽ tsf | MC % | Tests or | Remarks |
| 932.0 - 1.0 - | | | inch FILL Grav | es of appa :: SILTY S vel, dark b | 4 1/2 inches of arent aggrega sAND (SM), fir prown, moist It at 2 1/2 feet | te base e-grained, t | | | 3-6-8 (14) 14" | | 4 | | |
| 928.5 4.5 - 926.0 | | | SM) | | Y GRADED S nedium-graine | | | 5— | 3-3-4 (7) 12" | | 4 | P200=11% | |
| | | c××× | med | lium-grain | ADED SAND (ed, with Grave e (GLACIAL C | el, brown, m | | | 6-6-5 (11) 14" | | | | |
| _ _ _ _ | | | | | | | | 10 | 4-9-10 (19) 4" | | 3 | P200=4% | |
| - - - 918.5 _ 14.5 | | | | | END OF BO | RING | | 15— | 5-6-9 (15) 13" | | | Water not obs | erved while |
| - - - - - - | | | Во | ring then | backfilled w | ith auger o | cuttings | _ | | | | drilling. | |
| <u>-</u> - | | | | | | | | 20 | | | | | |
| <u>-</u> | | | | | | | | - | | | | | |
| <u>-</u> - | | | | | | | | | | | | | |
| <u>-</u> | | | | | | | | | | | | | |
| <u>-</u> - | | | | | | | | 25— | | | | | |
| <u>-</u> - | | | | | | | | - | | | | | |
| - | | | | | | | | - | | | | | |
| <u>-</u> | | | | | | | | 30 | | | | | |
| <u>-</u> - | | | | | | | | | | | | | |
| B2404209 | | | | | | Pro | ın Intertec (| Corneration | | Print Date:0 | 28/06/2024 | ST-2 | 20 page 1 of 1 |

| Project | Nu | mbe | r B | 240420 | 9 | | | | BORING: | | | ST-21 | |
|--|----------------|-------|-------------------------------------|--|--|--|---|--------|--|-----------------------|------------|-------------------------------|----------------|
| Geotec | | | | | | | | | LOCATION | Capture | d with RTh | (GPS. | |
| | | | | prover | nents Proj | ect | | | DATURA | IAD 4000 | 1100010 | E MALLE | (IIO F 1) |
| Various | | | | 4_ | | | | | | | | j MN Hennepin (| |
| Hopkin | S, IV | | | | 1 | | | | NORTHING | | 1189.5 | EASTING: | 492642.7 |
| DRILLER: | | С | McCl | lain | LOGGED BY: | 1 | Z Semlak | | START DAT | E: | 06/24/24 | END DATE: | 06/24/24 |
| SURFACE ELEVATION: | | 933.5 | ft | RIG: 75 | | METHOD: | 3 1/4" HS | SA . | SURFACIN | G: Bi | tuminous | WEATHER: | Clear |
| Elev./ Depth ft | Water Level | | (Soi | | escription of Ma 2488 or 2487; 1110-1-2908 | Rock-USA | CE EM | Sample | Blows (N-Value) Recovery | q _p tsf | MC % | Tests or | Remarks |
| 932.8 - 0.8 - 931.5 - 2.0 - 929.0 - 4.5 - 925.5 - 8.0 | ✓ 1 | | FILL grain mois FILL coar FILL brow | es of appa :: SILTY S ned, trace st :: POORL' :se-graine :: SANDY vn, moist | 6 1/2 inches of arent aggregat AND (SM), find Gravel, little drace Grave LEAN CLAY (CADED SAND was a medium dension and aggregation of the commedium dension and aggregation aggregation and aggregation and aggregation aggregation and aggregation aggregation aggregation aggregation and aggregation aggregati | e base e to coarse ebris, dark ND (SP), f l, light brow CL), trace C | brown, ine to /n, moist Gravel, P-SM), bwn, | 5- | 4-5-3 (8) 12" 1-1-4 (5) 10" 2-6-5 (11) 12" 4-5-5 (10) 16" | | 20 | | |
| | | | Bo | | END OF BOR | | uttings | 15 — | 2-5-6 (11) | | | Water observe while drilling. | ed at 7.5 feet |
| B2404209 | | | | | | | ın Intertec C | | | | 08/06/2024 | ST-2 | 21 page 1 of 1 |

| Project | Nun | nber B | 240420 | 9 | | | | BORING: | 7 10111111101 | ogy onloor | ST-22 | |
|--|----------------|---------------|---|--|---|--|---------|--------------------------------|-----------------------|---------------|----------------------------|----------------|
| Geotec | | | | | | | | LOCATION | : Estimate | ed. | | |
| | | | nproven | nents Proj | ect | | | | | | | |
| Various | | | 1 - | | | | | | | | j MN Hennepin (⊺ | (US Feet) |
| Hopkin | s, Mi | nneso | ta | 1 | | | | NORTHING | S: 15 | 51215 | EASTING: | 491990 |
| DRILLER: | | C McC | Clain | LOGGED BY: | | Z Semlak | | START DAT | E: | 06/25/24 | END DATE: | 06/25/24 |
| SURFACE ELEVATION: | 9 | 41.0 ft | RIG: 75 | 14 | METHOD: | 3 1/4" HSA | | SURFACIN | G: Bi | tuminous | WEATHER: | Clear |
| Elev./ Depth ft | Water Level | (So | | scription of Ma 2488 or 2487; 1110-1-2908 | Rock-USA | CE EM | Sample | Blows (N-Value) Recovery | q _p tsf | MC % | Tests or | Remarks |
| #t - 940.2 - 0.8 - 939.0 - 2.0 - 936.5 - 4.5 - 934.0 - 7.0 - 931.5 - 9.5 - 13.0 - 926.5 - 14.5 | M S | SIL trace (GL | nes of appa L: SILTY S. Ined, trace L: SANDY anic, trace AYEY SAND (dium (GLA TY SAND (ee Gravel, b ACIAL TIL ORLY GRA Ined, trace ACIAL OU | TI/2 inches of arent aggregat AND (SM), fine Gravel, little de LEAN CLAY (Gravel, dark general aggregation of the Lean Clab Till) SC-SM), fine forown, moist, response, light be TWASH) SM), fine to morown, moist, response, moist, response, light be TWASH) | bituminous e base e to coarse e to coarse ebris, brow CL), slightly ray to brov Gravel, bro o medium- nedium de SP), fine to rown, mois edium-grai nedium de RING | yn, moist / y vn, moist wn, wet, grained, nse coarse- 10 ined, nse | | | tsi | 4 17 13 | Water not obs drilling. | |
| - - - - - | | 30 | | | | | | | | | | |
| <u> </u> | | | | | | | + | | | | | |
| B2404209 | | · · | | | Brou | ın Intertec Corr | oration | | Print Date: | 08/06/2024 | ST-2 | 22 page 1 of 1 |



BRAUN INTERTEC

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B2404209

Core and Aggregate Base Photo Log



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Core and Aggregate Base Photo Log



Descriptive Terminology of Soil

Based on Standards ASTM D2487/2488 (Unified Soil Classification System)

| | Criteria fo | or Assigning G | roup Symb | ols and | | Soil Classification |
|--|--|--|---|---|-------------------------------------|-------------------------------------|
| | | lames Using La | | | Group Symbol | Group Name ^B |
| Ē | Gravels | Clean Gr | avels | $C_u \ge 4$ and $1 \le C_c \le 3^D$ | GW | Well-graded gravel ^E |
| ed o | (More than 50% of coarse fraction | (Less than 5 | % fines ^c) | $C_u < 4 \text{ and/or } (C_c < 1 \text{ or } C_c > 3)^D$ | GP | Poorly graded gravel ^E |
| ned Soi 6 retain sieve) | retained on No. 4 | Gravels with Fines | | Fines classify as ML or MH | GM | Silty gravel ^{E F G} |
| ainec 3% re 3 siev | sieve) (More than 12 | | 2% fines ^c) | Fines Classify as CL or CH | GC | Clayey gravel ^{E F G} |
| Coarse-grained Soils (more than 50% retained on No. 200 sieve) | Sands | Clean Sa | $C_u \ge 6$ and $1 \le C_c \le 3^D$ | SW | Well-graded sand | |
| parse- e than No. | | | $C_u < 6 \text{ and/or } (C_c < 1 \text{ or } C_c > 3)^D$ | SP | Poorly graded sand | |
| o. Mor | fraction passes No. 4 | Sands with Fines | | Fines classify as ML or MH | SM | Silty sand ^{FGI} |
|) | sieve) | (More than 1 | 2% fines ^H) | Fines classify as CL or CH | SC | Clayey sand ^{F G I} |
| | | | | l plots on or above "A" line I | CL | Lean clay ^{KLM} |
| the | Silts and Clays (Liquid limit less than | inorganic | PI < 4 or p | olots below "A" line ^J | ML | Silt ^{KLM} |
| Fine-grained Soils 50% or more passes the No. 200 sieve) | 50) | Organic | | nit – oven dried nit – not dried <0.75 | OL | Organic clay KLMN Organic silt KLMO |
| grail mor . 200 | | Inorganic | PI plots o | n or above "A" line | CH | Fat clay ^{KLM} |
| %orn No | | | PI plots b | elow "A" line | MH | Elastic silt ^{K L M} |
| (50) | (Liquid limit 50 or more) | Organic Liquid Limit – oven dried Liquid Limit – not dried <0.75 | | ОН | Organic clay KLMP Organic silt KLMQ | |
| Hig | hly Organic Soils | Primarily orga | anic 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 ≥ 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:

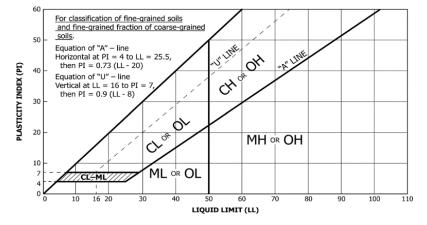
SW-SM well-graded sand with silt

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 ≥ 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. $PI \ge 4$ 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 Pocket penetrometer strength, tsf \mathbf{q}_{p} WD Wet density, pcf Unconfined compression test, tsf \mathbf{q}_{υ} P200 % Passing #200 sieve Liquid limit LL MC Moisture content, % PL Plastic limit OC Organic content, % ы Plasticity index

| 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) |

Particle Size Identification

Relative Proportions^{L, M}

| trace | 0 to 5% |
|--------|----------|
| little | 6 to 14% |
| with | ≥ 15% |

Inclusion Thicknesses

| lens | 0 to | 1/8" |
|-------|------|-------|
| seam | 1/8" | to 1" |
| layer | over | 1" |

Apparent Relative Density of Cohesionless Soils

| very loose | U 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 | Blows | Approximate Unconfined |
|----------------|-----------------|-------------------------------|
| Cohesive Soils | Per Foot | 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



Rock Core

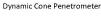
Thinwall (TW)/Shelby Tube (SH)

Auger

Grab Sample



Texas 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
Forecast Performed by
Name of County or City
Project Number
Project Description
Route Number

Base Year (i.e. opening to traffic)
Number of Lanes (total both directions)

Current AADT Urban or Rural

Historical AADT (enter a minimum of two years)

Enter oldest traffic data here
Enter second oldest traffic data here

Enter third oldest traffic data here
Enter fourth oldest traffic data here

Base Year AADT 20-Year AADT 35-Year AADT Growth Rate

| 8-5-2024 |
|-----------------------------------|
| Braun Intertec |
| City of Hopkins (Hennepin County) |
| B2404209 |
| Pavement Rehabilitation |
| 11th Ave N (MSAS 343) |

| | _ | |
|--------------------|---|--|
| Urban | | |
| 465 | | |
| 2 = typical 2 lane | | |
| 2026 | | |

| Year | AADT |
|------|------|
| 2012 | 540 |
| 2016 | 630 |
| | |
| | |
| 2026 | 860 |

| 2026 | | 800 |
|------|-------|-------|
| 2046 | | 1,310 |
| 2061 | | 1,640 |
| | 2.62% | |

| Vehicle Type | Vehicle Class | ESAL F | actors |
|---------------|---------------|----------|--------|
| venicie Type | % | Flexible | Rigid |
| 2AX-6TIRE SU | 1.37% | 0.25 | 0.24 |
| 3AX+SU | 0.06% | 0.58 | 0.85 |
| 3AX TST | 0.09% | 0.39 | 0.37 |
| 4AX TST | 0.19% | 0.51 | 0.53 |
| 5AX+TST | 1.47% | 1.13 | 1.89 |
| TR TR, BUSES | 0.67% | 0.57 | 0.74 |
| TWIN TRAILERS | 0.00% | 2.40 | 2.33 |
| Total | 3.85% | NA | NA |

20-Year Flexible Forecast (10 Ton) = 119,000 20-Year Rigid Forecast (10 Ton) = 176,000 35-Year Flexible Forecast (10 Ton) = 234,000 35-Year Rigid Forecast (10 Ton) = 348,000

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

Revised: 5/6/2020

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
Forecast Performed by
Name of County or City
Project Number
Project Description
Route Number

Base Year (i.e. opening to traffic) Number of Lanes (total both directions)

Current AADT Urban or Rural

Historical AADT (enter a minimum of two years)

Enter oldest traffic data here Enter second oldest traffic data here Enter third oldest traffic data here Enter fourth oldest traffic data here

Base Year AADT 20-Year AADT 35-Year AADT Growth Rate

| 8-5-2024 |
|-----------------------------------|
| Braun Intertec |
| City of Hopkins (Hennepin County) |
| B2404209 |
| Pavement Rehabilitation |
| 12th Ave N (MSAS 344) |

| | _ |
|--------------------|---|
| 2026 | |
| 2 = typical 2 lane | |
| 1,752 | |
| Urban | |
| | |

| Year | AADT |
|------|-------|
| 1997 | 2,300 |
| 2001 | 2,450 |
| 2008 | 2,200 |
| 2016 | 2,000 |
| 2026 | 1,840 |
| 2046 | 2,024 |
| 2061 | 2,162 |

0.50%

| Vehicle Type | Vehicle Class ESAL Factors | | actors |
|---------------|----------------------------|----------|--------|
| venicle Type | % | Flexible | Rigid |
| 2AX-6TIRE SU | 1.39% | 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 | 1.51% | 1.13 | 1.89 |
| TR TR, BUSES | 0.66% | 0.57 | 0.74 |
| TWIN TRAILERS | 0.00% | 2.40 | 2.33 |
| Total | 3.91% | NA | NA |

20-Year Flexible Forecast (10 Ton) = 216,000 20-Year Rigid Forecast (10 Ton) = 321,000 35-Year Flexible Forecast (10 Ton) = 383,000 35-Year Rigid Forecast (10 Ton) = 569,000

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

Revised: 5/6/2020

MnPAVE Design Summary

MnPAVE 6.502 Simulation Input File: MnPAVE - 12th Ave

Confidence Level for Preliminary Life Estimate = 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.

| Preliminary Life Estimate | | 20-Year Reliability (5,000 cycles) | | |
|---------------------------|----------|------------------------------------|---------|--|
| Fatigue | Rutting | Fatigue | Rutting | |
| >50 years | 47 years | 100% | 99.9% | |

Project Information

| -, | | |
|---------------------|-------------|------------------------|
| District | County | City |
| Metro | Hennepin | Hopkins |
| Project Number | Route | Reference Post |
| B2404209 | 12th Avenue | from 1st St N to Hwy 7 |
| Letting Date | Cons | truction Type |
| 08/08/24 | Recor | nstruction/FDR |
| Designer | | Soils Engineer |
| Bolton & Menk, Inc. | | Braun Intertec |
| | | |

Climate Information

| Seasons | Location | |
|---------|-------------------------------------|--|
| 5 | 44° 59' Latitude, 93° 27' Longitude | |

Structural Information (Design Level: Intermediate)

| Layer | Туре | Subtype | Height (in.) |
|--------------------------------|------------------|---------------------------|--------------|
| 1a Hot-Mix Asphalt (Pb = 5.0%) | | PG58-34 (2360F 3/8") | 2.00 |
| 1b Hot-Mix Asphalt (Pb = 5.0%) | | PG58-34 (2360F 1/2") | 3.00 |
| 2 Aggregate Base | | FDR | 8.00 |
| 3 | Engineered Soil | R-Value = 15 (CL) | 12.00 |
| 4 | Undisturbed Soil | Engineered Soil Modulus/2 | |

Traffic Information (Speed = 30 mph)

| Load Type | First Year ESAL | Growth Rate | Axle Repetitions |
|-----------|-----------------|---------------|------------------|
| ESAL | 10,270 | 1.0% (simple) | 225,000 |

Notes

Without Sand Subbase

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MnPAVE Design Summary

MnPAVE 6.502 Simulation Input File: MnPAVE - Residential

Confidence Level for Preliminary Life Estimate = 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.

| Preliminary Life Estimate | | 20-Year Reliability (5,000 cycles) | | |
|---------------------------|----------|------------------------------------|---------|--|
| Fatigue | Rutting | Fatigue | Rutting | |
| >50 years | 45 years | 100% | 99.8% | |

Project Information

| District | Cou | nty | City |
|---------------------|------------|------------|----------------|
| Metro | Hennepin | | Hopkins |
| Project Number | Rou | ıte | Reference Post |
| B2404209 | Residentia | al Streets | from to |
| Letting Date | | Construc | tion Type |
| 08/08/24 | | Reconstru | ction/FDR |
| Designer | | | Soils Engineer |
| Bolton & Menk, Inc. | | | Braun Intertec |

Climate Information

| Seasons | Location | |
|---------|-------------------------------------|--|
| 5 | 44° 59' Latitude, 93° 27' Longitude | |

Structural Information (Design Level: Intermediate)

| Layer | Туре | Subtype | Height (in.) |
|--------------------------------|------------------|---------------------------|--------------|
| 1a Hot-Mix Asphalt (Pb = 5.0%) | | PG58-34 (2360F 3/8") | 2.00 |
| 1b Hot-Mix Asphalt (Pb = 5.0%) | | PG58-34 (2360F 1/2") | 2.00 |
| 2 Aggregate Base | | FDR | 8.00 |
| 3 | Engineered Soil | R-Value = 15 (CL) | 12.00 |
| 4 | Undisturbed Soil | Engineered Soil Modulus/2 | |

Traffic Information (Speed = 30 mph)

| Load Type | First Year ESAL | Growth Rate | Axle Repetitions |
|-----------|-----------------|---------------|------------------|
| ESAL | 6,303 | 2.0% (simple) | 150,000 |

Notes

Without Sand Subbase

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Geographic Information System Services

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www.bolton-menk.com