

CITY OF FALCON HEIGHTS
Regular Meeting of the City Council
City Hall
2077 West Larpenteur Avenue
AGENDA
October 26, 2022 at 7:00 P.M.

A. CALL TO ORDER:

B. ROLL CALL: GUSTAFSON ___ LEEHY ___

MEYER ___ WEHYEE ___ VACANT ___

STAFF PRESENT: LINEHAN _____

C. APPROVAL OF AGENDA

D. PRESENTATION:

1. Receiving the Feasibility Report and Ordering Public Hearing for the 2023 Pavement Management Program (PMP)

E. APPROVAL OF MINUTES:

1. October 12, 2022 City Council Regular Meeting Minutes

F. PUBLIC HEARINGS:

G. CONSENT AGENDA:

1. General Disbursements through: 10/20/22 \$222,924.42
Payroll through: 10/15/22 \$23,798.72
Wire Payments through: 10/15/22 \$16,067.73
2. City Licenses
3. **2023 Ramsey County Select Committee on Recycling & The Environment (SCORE) Grant Submittal and Enter into Agreement with Ramsey County for Funding**
4. Appointment of Michael Tracy to Parks Commission
5. Appointment of Randi Lundell to Parks Commission
6. Flexible Benefits Plan Amendment

H. POLICY ITEMS:

I. INFORMATION/ANNOUNCEMENTS:

J. COMMUNITY FORUM:

Please limit comments to 3 minutes per person. Items brought before the Council will be referred for consideration. Council may ask questions for clarification, but no council action or discussion will be held on these items.

K. ADJOURNMENT:

BLANK PAGE



REQUEST FOR COUNCIL ACTION

Meeting Date	October 26, 2022
Agenda Item	Presentation D1
Attachment	Feasibility Report, Resolution 22-50
Submitted By	Jesse Freihammer, City Engineer

Item	Receive Feasibility Report and Order Public Hearing for the 2023 Pavement Management Program
Description	<p>In 2022, the City Council ordered the preparation of a feasibility report for the 2023 Pavement Management Project (PMP). The following streets have been identified to be considered for improvements in 2023:</p> <ul style="list-style-type: none"> • Holton Street, Larpenteur Avenue to Roselawn Avenue • Albert Street, Ruggles Street to Roselawn Avenue • Sheldon Street, Ruggles Street to Roselawn Avenue • Ruggles Street, Holton Street to Hamline Avenue • Garden Avenue, East Snelling Service Drive to Hamline Avenue <p>In accordance with City Council direction, a feasibility report has been prepared that details the proposed design, neighborhood impact, and estimated cost of the proposed 2023 Pavement Management Program. Copies of the completed feasibility report are attached. The next step in the process is for the Council to accept the feasibility report and to schedule a public hearing.</p> <p>A resolution receiving the feasibility report and ordering the public hearing for November 9, 2022, is attached. A portion of the 2023 PMP is proposed to be assessed. The approval of the attached resolution is required for the Minnesota Chapter 429 Assessment Process.</p> <p>At the public hearing on the November 9, the Council will need to take the following actions:</p> <ul style="list-style-type: none"> • Should Ruggles pathway constructed? • Which layout options for Garden Avenue? • Hold Public Improvement Hearing, and Adopt Resolution Ordering Improvement and Preparation of Plans and Specifications for the 2023 Pavement Management Project.

Budget Impact	<p>This project has the following financial implications for the City and property owners along the streets being considered for improvements:</p> <ul style="list-style-type: none"> • Assessments levied in accordance with the City’s assessment policy. • Use of Municipal State Aid (MSA) and street infrastructure funds to pay the City’s portion of the project. • Expenditure of utility fund dollars to pay for repairs needed to the existing utility system.
Attachment(s)	<ul style="list-style-type: none"> • Feasibility Report • Resolution 22-50
Action(s) Requested	<p>Receive Feasibility Report and Order Public Hearing set for November 9, 2022, for the 2023 Pavement Management Program.</p>



CITY OF
FALCON HEIGHTS

2077 W. LARPELLEUR AVENUE FALCON HEIGHTS, MN 55113-5594 PHONE (651) 792-7600 FAX (651) 792-7610

Feasibility Report

2023 Pavement Management Program Project FH-23-01

Holton Street, Larpenteur Avenue to Roselawn Avenue
Albert Street, Ruggles Street to Roselawn Avenue
Sheldon Street, Ruggles Street to Roselawn Avenue
Ruggles Street, Holton Street to Hamline Avenue
Garden Avenue, from East Snelling Drive to Hamline Avenue

Prepared by: Jesse Freihammer
City Engineer
City of Falcon Heights

I hereby certify that this feasibility 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.

, P.E.

Licensed No. 47272

EXECUTIVE SUMMARY

This feasibility report has been prepared for the 2023 Pavement Management Project, FH 23-01. The project was initiated by council/staff as part of the City's Pavement Management Program. This report consists of a detailed investigation of the streets proposed for improvements, listed below. A map showing the street locations can be found on Page 4.

Area 1 - Mill and Overlays

Area 1 of the proposed project involves milling the pavement, spot curb replacement, spot utility improvements and pavement replacement. Utility improvements for the project include the repair of selected storm sewer manholes and catch basins. As has been discussed during development of the CIP, the City Council has expressed the desire to complete maintenance on City streets that, if neglected for too long, would need to be reconstructed. The proposed mill and overlays included in the 2023 PMP achieves this, while also maintaining a neighborhood approach to minimize the inconveniences residents experience due to construction. Streets include:

- Holton Street, Larpenteur Avenue to Roselawn Avenue
- Albert Street, Ruggles Street to Roselawn Avenue
- Sheldon Street, Ruggles Street to Roselawn Avenue
- Ruggles Street, Holton Street to Hamline Avenue

Area 2 - Reconstruction

Garden Avenue, from East Snelling Drive to Hamline Avenue, is proposed for pavement reclamation to address deficiencies in the pavement and base section of the roadway. This area is proposed for a significant amount of curb removal. Also proposed are impacted driveway replacements, and minor storm sewer and sanitary sewer work.

The existing street design changes at Holton so staff recommends Council look at the new options as two segments. Segment 1 is west of Holton, Segment 2 is east of Holton and includes the elementary school. Different decisions can be made on the width of the roadway and if a pathway should be installed for each segment. The decisions can be made independent for each segment.

Roadway Geometry was examined for benefits, including lowering driver speeds and decreasing stormwater run-off. Reduction of the roadway width would result in some loss of parking.

Pathway Installation on the north side of the street was examined. Previous Council Action determined, if a pathway is installed with this project, costs would not be assessed and snow removal would be done by City staff. All proposed sidewalk options are located within the existing curb line so no further impacts to residents' yards or loss of driveway space would occur, even though the City has additional right of way and could exercise this right.

Segment 1 – Options

- **Option 1 (Existing Street Design)**
 - Street Width 36 Feet

- 11-foot Drive Lanes
- 7-foot Parking Lanes on Both Sides
- No Sidewalk
- **Option 2 (Existing Street Design Modified)**
 - Street Width 36 Feet
 - 11-foot Drive Lanes
 - 8-foot Parking Lanes on South Side
 - 6-foot shoulder on North Side, No Parking
 - No Sidewalk
- **Option 3 (Concept B modified)**
 - Street Width 34 Feet (Narrowed 2 Feet by Moving the North Curb)
 - 11-foot Drive Lanes
 - 7-foot Parking Lane on South Side
 - 5-foot shoulder on North Side, No Parking
 - No Sidewalk
- **Option 4 (Concept A)**
 - Street Width 29 Feet (Narrowed 7 Feet by Moving the North Curb)
 - 11-foot Drive Lanes
 - 7-foot Parking Lane on South Side
 - 7-foot Sidewalk on North Side, Next to the Curb

Segment 2– Options

- **Option 5 (Existing Design)**
 - Street Width 42 feet
 - 12-foot Drive Lanes
 - 9-foot parking South Side Only
 - 9-foot Shoulder North Side Currently Signed No Parking.
 - No Sidewalk
- **Option 6 (Concept G)**
 - Street Width 32-foot (Narrowed 10 Feet by Moving North Curb)
 - 12-foot Drive Lanes
 - 8-foot Parking South Side Only
 - Elimination of North Shoulder Currently Signed No Parking.
 - No Sidewalk
 - East of School Property: North Side Shoulder for School Pick-Up Queuing, No Sidewalk
- **Option 7 (Concept F)**
 - Street Width 32-foot (Narrowed 10 Feet by Moving North Curb)
 - 12-foot Drive Lanes
 - 8-foot Parking South Side Only

- Elimination of North Shoulder Currently Signed No Parking.
- 6-foot Sidewalk
- 5-foot Boulevard Between Sidewalk and Curb Adjacent to the School Property
- East of School Property: North Side Shoulder for School Pick-Up Queuing, 7-foot Sidewalk, No Boulevard
- Bumpouts at Intersection to Eliminate Parking Near Intersection/Shorter Pedestrian Crossings

Ruggles Pathway Connection

The right-of-way connecting Ruggles Avenue from Pascal Street to Holton Street was evaluated for a pathway. The existing right of way is 12 feet wide. The existing surface is unimproved so access can be limited to some users, particularly those in wheelchairs or those who are less mobile. Options for this pathway include installing a concrete sidewalk, installing a permeable paver sidewalk or doing no improvements. If improvements are not completed, consideration of vacating the right of way could be considered since the unimproved segment would not meet ADA standards.

Project Cost

The total project cost for Falcon Heights is estimated to be \$1,688,000 if sidewalks are fully installed on Garden Avenue. This also includes contingencies and overhead costs. If Ruggles pathway was added, this would add between \$35,000 and \$51,000 to the costs. This estimate applies to all options but is the highest cost scenario. All the street cost options are generally the same with only some minor estimated reductions. Funding for the project will be provided through assessments from the benefitting properties, utility funds, street infrastructure funds, and Municipal State Aid (MSA) funds. A summary of the estimated project costs and funding sources are as follows:

Mill and Overlay Street Costs:	\$427,000
Garden Avenue Street Costs:	\$680,000
Garden Ave Sidewalk (West):	\$172,000
Garden Ave Sidewalk (East):	\$127,000
Storm Sewer Costs:	\$242,000
Sanitary Sewer Costs:	\$ 40,000

Funding:

Approximated Assessments:	\$533,000
Street Fund:	\$287,000
Municipal State Aid:	\$586,000
Storm Sewer Fund:	\$242,000
Sanitary Sewer Fund:	\$ 40,000

Project Schedule

If this project is approved, the proposed project schedule is shown below. Items marker is the project schedule and Council Action items are noted with a CC:

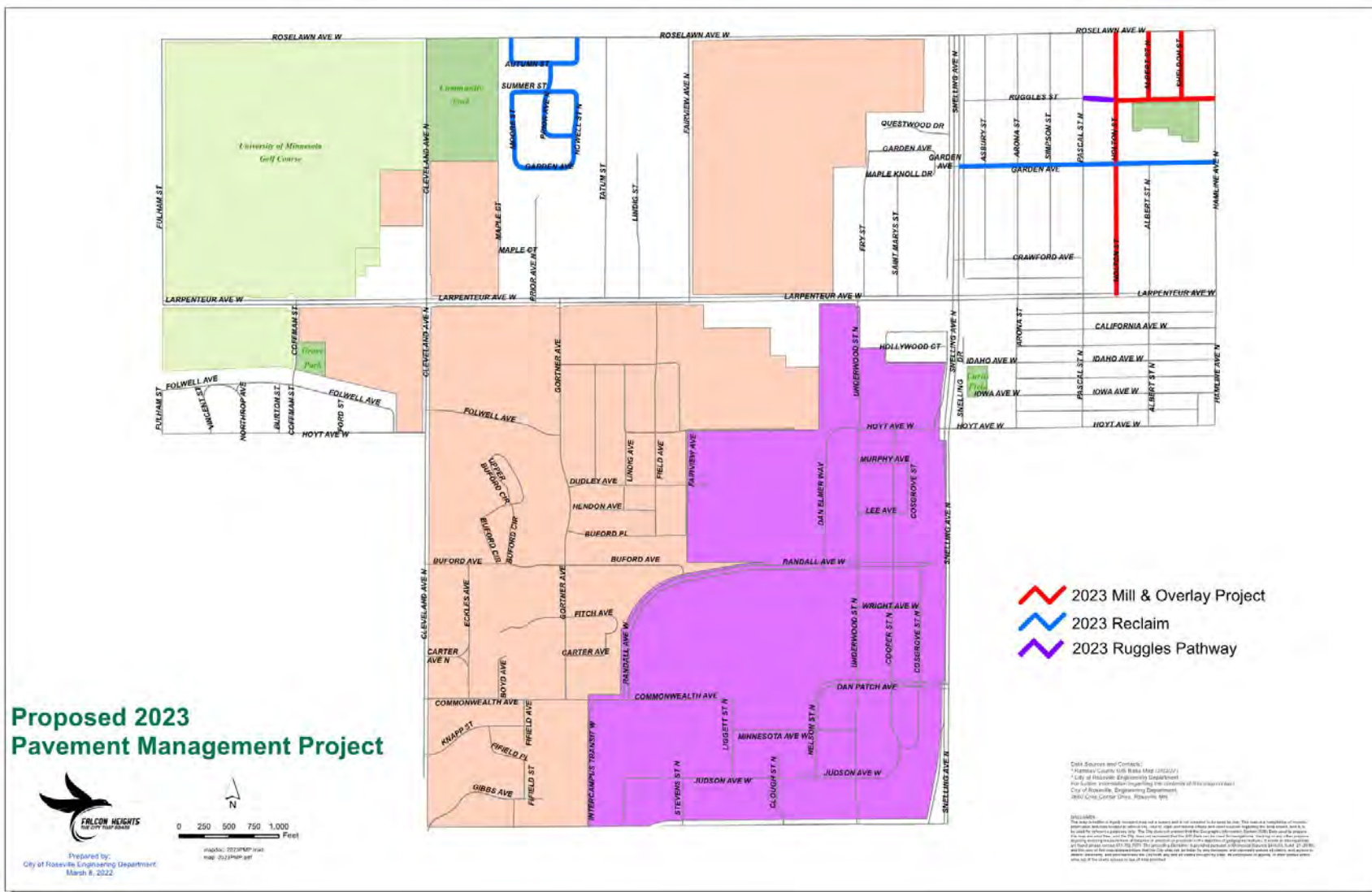
CC Receive Feasibility report and Set Improvement Hearing October 26, 2022

CC Improvement Hearing, Order Improvement, and Authorize Preparation of Plans & Specifications	November 9, 2022
CC Approve Plans & Specifications, and Order Advertisement for Bid	January, 2023
Bid Opening	February 2023
CC Award Contract	March 2023
Construction Start	Summer 2023
Substantial Completion	Fall 2023
CC Set Assessment Hearing	October 2023
CC Assessment Hearing	October 2023

Recommendation

Based on the data within this report, the proposed 2023 Pavement Management Project, FH 23-01, is feasible, necessary, cost-effective and will benefit the City of Falcon Heights.

PROJECT LOCATION



STREETS

Existing Conditions

The approximately 1.4 miles of streets in the project area were originally paved between 1957-1967. From historical aerial photos, Garden Avenue was originally a gravel section line road. It was widened to its current configuration in 1976. The last time the roadway was resurfaced was in 1999. All streets have an urban design with concrete curb and gutter and stormwater systems to convey drainage.

Holton Street, Albert Street, Sheldon Street and Ruggles Avenue are residential streets. They are 31 feet wide, with parking allowed on both sides. The speed limit for these streets is 20 mph and staff are not aware of a speeding issue, nor have they received residents' comments about speeds.



Figure 1 - Non-Standard Painted Cross-Hatch

Garden Avenue is a Municipal State Aid route and is classified as a minor collector. From the Snelling Service Road to Holton Avenue it is 36 feet wide with two lanes of traffic, parking on both sides, with parking restrictions in front of the church. From Holton to Hamline the roadway transitions to a 42-foot-wide street with no parking posted on the north side. parking restrictions in front of the school. between the school and Holton Street and near the church on Holton Street. Garden Avenue has pavement markings that are not consistent with the Minnesota Manual of Uniform Traffic Control Devices (MUTCD) at the intersection with Albert Street.

Garden Avenue has a school zone with a 20-mph speed limit and a 20-mph speed limit west of Holton Street. The school zone speed limit is out of date since the City updated the posted speed limit on Garden to 20 mph in 2021. Garden Avenue speed counts from May 2022 measure the 85th percentile speed at 27 mph near Simpson Street and 24 mph near Falcon Heights Elementary School. The measured speeds represent a significant speeding issue although based on the new speed limit. Staff has heard numerous resident concerns about speeding vehicles on Garden Avenue.

Municipal State Aid (MSA) traffic counts taken in 2020, during the COVID-19 Pandemic, measured 610-620 Average Daily Traffic (ADT) on Garden Avenue. Staff took additional counts in May of 2022 and measured 743-748 ADT (not seasonally adjusted by MnDOT Traffic). The MSA traffic counts taken in 2017, pre-pandemic, measured 790-1050 ADT. Traffic volumes on Garden Avenue appear to be increasing, but are not back to pre-pandemic volumes.

Pavement condition scores were considered to determine the streets for the City's pavement management and capital improvements plan. Falcon Heights' pavement management system utilizes a pavement condition index (PCI) rating of 0 to 100. This rating is based on surficial pavement observations. Street condition ratings are divided into three categories: "adequate" (66 to 100), "marginal" (36 to 65) and "problem" (0 to 35). The average PCI for Garden is 20. The average PCI for the mill and overlay roads is 47.

Falcon Heights contracted with a geotechnical engineering consultant to obtain pavement borings on Garden Avenue within the project. The observed pavement depth was generally 4 inches. The

thicker pavement observed at one of the borings was likely due to a roadway patch. Observed aggregate base ranged from 4 to 7 inches. The fill encountered below the base consisted of sandy soils. The geotechnical report indicated the pavement distresses on Garden Avenue may indicate issues within the subgrade of the roadway. Slightly organic soils were encountered at one of the locations 2-4 feet below the street surface. The fill contained some debris, including concrete and bituminous. The existing pavement sections are summarized in the table below:

Measured Existing Pavement Sections Table

Boring Location	Bituminous Pavement Thickness (in.)	Apparent Aggregate Base Thickness (in.)
ST-8	4	4
ST-9	4.5	7
ST-10	4	6
ST-11	7	5

Proposed Improvements

Area 1 Proposed Improvements - Mill and overlaying of the pavement is proposed as the method of pavement construction. The process involves grinding off the top 2 inches of pavement and replacing with two new inches of bituminous. This method is a cost-effective way to get a new pavement surface that is smoother and free of defects. Although cracking is likely to mirror in the year following construction, sealing cracks the following year is anticipated to address that issue and maintain the pavement longevity. Cost for the street resurfacing is estimated at \$427,000.

Area 2 Proposed Improvements - Falcon Heights contracted with a geotechnical engineering consultant to obtain pavement borings on Garden Avenue. Based on the data and the minimal utility work proposed with this project, a full-depth reclamation is proposed. This would include grinding and mixing the existing pavement with the underlying base section. This strengthens the base of the roadway. Excess grounds are removed and a new, 4-inch asphalt section would be paved without changing the elevation of the roadway. Some areas may need subgrade correction if unsuitable soils are encountered. The road is proposed to be striped with pavement markings consistent with the MN MUTCD. Cost for the street reconstruction is estimated at \$680,000

Area 2 Proposed Improvements Options
Segment 1, Snelling Service Road to Holton Avenue

- **Option 1 (Existing Street Design)**
 - Street Width 36 Feet
 - 11-foot Drive Lanes
 - 7-foot Parking Lanes on Both Sides
 - No Sidewalk

- **Option 2 (Existing Street Design Modified)**
 - Street Width 36 Feet
 - 11-foot Drive Lanes
 - 8-foot Parking Lanes on South Side

- 6-foot shoulder on North Side, No Parking
- No Sidewalk
- **Option 3 (Concept B modified)**
 - Street Width 34 Feet (Narrowed 2 Feet by Moving the North Curb)
 - 11-foot Drive Lanes
 - 7-foot Parking Lane on South Side
 - 5-foot shoulder on North Side, No Parking
 - No Sidewalk
- **Option 4 (Concept A)**
 - Street Width 29 Feet (Narrowed 7 Feet by Moving the North Curb)
 - 11-foot Drive Lanes
 - 7-foot Parking Lane on South Side
 - 7-foot Sidewalk on North Side, Next to the Curb

Segment 2, Holton Avenue to Hamline Avenue

- **Option 5 (Existing Design)**
 - Street Width 42 Feet
 - 12-foot Drive Lanes
 - 9-foot Parking South Side Only
 - 9-foot Shoulder North Side Currently Signed No Parking.
 - No Sidewalk
- **Option 6 (Concept G)**
 - Street Width 32-foot (Narrowed 10 Feet by Moving North Curb)
 - 12-foot Drive Lanes
 - 8-foot Parking South Side Only
 - Elimination of North Shoulder Currently Signed No Parking.
 - No Sidewalk
 - East of School Property: North Side Shoulder for School Pick-Up Queuing, No Sidewalk
- **Option 7 (Concept F)**
 - Street Width 32-foot (Narrowed 10 Feet by Moving North Curb)
 - 12-foot Drive Lanes
 - 8-foot Parking South Side Only
 - Elimination of North Shoulder Currently Signed No Parking.
 - 6-foot Sidewalk
 - 5-foot Boulevard Between Sidewalk and Curb Adjacent to the School Property

All options for reducing the street width involved moving in the north curb line. Garden Avenue is currently 36 feet wide, much wider than the other streets in this neighborhood. The additional width is likely contributing to faster speeds on Garden Avenue. Narrowed roadways can provide more visual feedback for drivers to better interpret the speed they are traveling at, along with feeling less comfortable at higher speeds.

Reduction of street width will result in some loss of parking. Based on staff observations and resident feedback, there is ample parking even if one side of parking is eliminated. All options leave at least one side with parking which as feedback received from residents.

A significant reduction of the street width without addition of a new sidewalk, such as Option 6 could eliminate current space used by walkers.

Pathways

Existing Conditions

Area 1 and 2 – No pathways are located on the project streets in Area 1 or Area 2.

Ruggles Pedestrian Connection – The City has right-of-way parallel to Ruggles Street that is currently used by residents on foot to cut through the neighborhood from Pascal Street to Holton Street. The area is currently maintained by the residents on both sides as lawn, so it does not meet Americans with Disabilities Act (ADA) standards for accessibility. A utility pole is located in the center of the right-of-way. The city has no formal count of usage but anecdotally it is relatively well used during the summer.

Proposed Improvements

Area 1 – No improvements are proposed.

Area 2

Segment 1

Option 4 identified under the STREETS segment is the only option for this segment that has a dedicated separated pathway. This option provides a 7-foot concrete sidewalk behind the new north curb line. Dedicated pathways such as this option provide a higher level of safety compared to shared space within the roadway where pedestrians and bikers would use the parking lane or shoulders. It defines where pedestrians should walk. The sidewalk is elevated behind a curb which acts as a barrier. As long as the pathways are plowed in the winter, it provides a much safer space as typically shoulders get reduced as snow builds up and pavement markings get hidden under the snow. Estimated improvement cost is \$172,000.

Area 2

Segment 2

Option 7 identified under the STREETS segment is the only option for this segment that has a dedicated separated pathway. This option provides a 6-foot concrete sidewalk separated by a 5 foot boulevard behind the new north curb line. This option provides room for snow storage between the curb and the sidewalk. Dedicated pathways such as this option provide a higher level of safety compared to shared space within the roadway where pedestrians and bikers would use the parking lane or shoulders. It defines where pedestrians should walk. The sidewalk is elevated behind a curb which acts as a barrier. As long as the pathway are plowed in the winter,

it provides a much safer space as typically shoulders get reduced as snow builds up and pavement markings get hidden under the snow. Estimated improvement cost is \$127,000.

Council action has determined, if a pathway is installed with this project, costs would not be assessed. This report assumes the funding would be split between Municipal State Aid and the Street Fund. Ongoing maintenance, including snow removal would be performed by the City.

Ruggles Pedestrian Connection – An improvement to the Ruggles right-of-way was considered. The pathway could be constructed as concrete with drain tile at an estimated cost of \$35,000. A second option would be permeable pavers, which allow stormwater to filter through the pavement into the ground below to accommodate drainage. The estimated cost of a permeable paver installation is \$51,000. These estimated amounts include contingency and engineering/overhead costs.

Due to significant opposition by the adjacent property owners and others living in the neighborhood in addition to the low resident support heard from the neighborhood, current usage of the connection and the cost of the improvement construction, the pathway is not recommended. However, ongoing discussions are happening around this proposal as additional meetings are occurring with neighbors. If a pathway were constructed, costs of the 2023 PMP would increase by \$35,000 to \$51,000, funded from the street fund.

Sanitary Sewer

Existing Conditions

The sanitary sewer system within the project streets was constructed in the 1950s and 1960s. All of the sanitary pipe has been lined with Cure-In-Place-Pipe through the City's sanitary sewer rehabilitation program. This process creates a new pipe within the existing pipe.

Proposed Improvements

The sanitary sewer manholes are proposed for minor rehabilitation work to include new, water-tight castings and lids, new concrete rings and installation of an inflow and infiltration barrier at the top of the manhole. These improvements are anticipated to reduce stormwater entering the sanitary sewer system, which increases downstream capacity and treatment costs. They will also reinforce the top of the manhole to prevent future settlements within the street. The cost estimate for these improvements is \$40,000.

Stormwater and Drainage

Existing Conditions

The streets in the project area are served by catch basins which collect water on the street and transport it to the east into Roseville. Storm sewer structures within the project area were constructed with various materials including brick and mortar, concrete barrel sections seated on top of pipe, and more conventional concrete structures. Catch basins on Garden Avenue are located behind the curb line, which cause maintenance issues with keeping the drain open for water in the winter and spring months. Staff inspected all storm structures to evaluate their condition and determine replacement priorities.

The project area eventually flows east across the City line to a known flooding area, Gottfried Pit, located in Roseville at Larpenteur Avenue and Fernwood Avenue. Gottfried Pit is a regional pond that is owned by Ramsey County, and maintained by the City of Roseville. In extreme events, the pond has flooded up to approximately the 912 elevation (approximately 16' above the normal water level).

Proposed Improvements

Based on staff inspection, deteriorated catch basins will be rehabilitated or replaced as part of the proposed project improvements. During design, catch basins may be added to alleviate drainage issues or redundant catch basins may be eliminated.

Catch basins located behind the curblines on Garden Avenue are proposed to be removed or converted and new catch basins are proposed within the curblines. If Option 1B is selected, catch basins will be constructed within the north curblines relocation.

The cost estimate for these improvements is \$242,000.

As the proposed street improvements would disturb an area greater than one acre, the project is required by the Minnesota Pollution Control Agency (MPCA) to include a Storm Water Pollution Prevention Plan (SWPPP) and use erosion and sediment control best practices during construction, and obtain an MPCA Construction Permit. A watershed district erosion and sediment control permit will also be required.

The proposed improvements would not add enough impervious surface that would trigger watershed district quality or quantity requirements. Option 1B, to narrow the roadway, would reduce impervious surface in the area, reducing stormwater conveyed downstream to Gottfried Pit. No improvements for stormwater treatment are proposed with this project.

RIGHT-OF-WAY AND EASEMENTS

These project improvements are proposed within the existing right-of-way. No right-of-way or easement acquisition is anticipated.

If the Ruggles Street right-of-way between Pascal Street and Holton Street is not going to be improved to be an ADA-compliant pathway, the Council may consider vacation of the right-of-way. Failure of Falcon Heights to meet the requirements of the Americans with Disabilities Act on a travel-way within City right-of-way may be a liability for the City. Vacation or turning-back the right-of-way may be appropriate to address the liability concerns.

The vacation process is prescribed by Minnesota State Statute as a discretionary act of the Council. It can be initiated by the City and approved by City Council with a four-fifths majority at a public hearing. Prior to the hearing, notice must be sent to affected property owners and notice posted and published in the City newspaper. The right-of-way area at issue is not land owned by the City. It is a platted right-of-way easement over land. A vacation process would remove the City's right-of-way easement over the property, "turning back" the property to the underlying property at no cost to them. The property would then be available for their use and enjoyment. The property would also be returned to the tax roll.

OUTSIDE AGENCY COORDINATION

The watermain system that services the project area is owned and operated by St. Paul Regional Water Services and they have indicated no improvements are planned for inclusion or coordination with this project.

The project area is within the Capitol Region Watershed District. Proposed improvements are not anticipated to warrant any stormwater requirements from the District.

During the design process, staff will do a Gopher State One Call for the project area to identify all small utility operators. The City will coordinate with small utilities to finalize relocations and other coordination items during design.

ESTIMATED COSTS AND PROPOSED FUNDING

Proposed project costs for the 2023 PMP Improvement Project are summarized below. The cost estimate is based on recent construction projects of similar character and assumes that the proposed improvements would begin in 2023. All costs include estimated engineering costs and 15% contingency, which includes unforeseen costs including inflation, unforeseen site conditions, etc. Actual costs will be determined through competitive bids following final design for the project. The actual costs will be dependent upon the market conditions that exist at the time of the bidding.

The proposed street improvements are eligible for assessments according to the City of Falcon Heights Assessment Policy. Per City Policy, a portion of the street improvements will be assessed to the benefitting properties. Along with assessments, street costs will be financed through the Street Infrastructure Fund and Municipal State Aid. Typically, only roads that have been added to the City's Municipal State Aid system (MSA) are eligible for funding through the City's portion of state gas tax revenues. However, the City of Falcon Heights has a Certified Municipal State Aid Street system. As a result, the City can use MSA funds to pay for the City's portion of the costs.

Storm sewer and sanitary sewer improvements will be funded from the appropriate infrastructure fund, and are not eligible for assessments.

	Estimated Cost	MSA	Street Infrastructure Funds	Assessments	Sanitary Sewer Fund	Storm Sewer Fund
Street Improvements – Area 1	\$427,000	\$117,000	\$117,000	\$193,000	-	-
Street Improvements – Area 2: Garden Ave	\$680,000	\$170,000	\$170,000	\$340,000	-	-
Storm Sewer Improvements	\$242,000				-	\$242,000
Sanitary Sewer Improvements	\$40,000				\$40,000	-
Total	\$ 1,389,000	\$287,000	\$287,000	\$533,000	\$40,000	\$242,000

*Includes 15% Engineering

If a pathway is installed with this project, the Council has directed staff not to assess project costs. This report assumes the funding for pathway improvements would be split between Municipal State Aid Funding and the Street Infrastructure Fund. This is consistent with past practice; the City did not assess for pathway replacement along Roselawn Avenue in 2015. The table below shows the estimated costs with contingency and funding for the pathway options.

	Estimated Cost	MSA	Street Infrastructure Funds	Assessments
Options 1, 2, 3, 5, 6 No Pathway Improvements	\$0	-	-	-
Option 4	\$172,000	\$86,000	-	-
Option 7	\$127,000	\$127,000	-	-
Option 4 and 7	\$299,000	\$299,000	-	-
No Pathway at Ruggles Right-of-Way	\$0	-	-	-
Ruggles: 5-Foot Concrete Pathway	\$35,000	-	\$35,000	
Ruggles: Permeable Pavers	\$51,000	-	\$51,000	-

*Includes 15% Engineering

PROPOSED ASSESSMENTS

Assessments will be levied to the benefitting properties as outlined in Minnesota State Statute Chapter 429 and the City’s Assessment Policy, which is summarized below. The assessed amount is levied on a front footage basis. Residential corner lots are assessed 100% for the long side, 0% for the short side. One alteration proposed to the policy considers the long, narrow lots between Albert Street and Hamline Avenue. Tax-exempt lots are assessed for all frontages. To be consistent with the assessment practice used on the 2015 PMP, which also included a lot with significant length, residential lot depth is proposed

to be capped at 176 feet. This would affect two lots lowering their assessable frontage from 296 feet to 176 feet.

Assuming this project is completed by fall 2023, the final assessment amount would be determined at an assessment hearing in the fall of 2023 with a thorough review of the proposed assessments by the Council. The Council would also set the length of assessments and the interest rate at the hearing. In past projects, the assessments have been over 7 years for mill and overlay projects and 10 years for reconstruction projects at an interest rate 2% above the current rate of return on the City's portfolio.

The following factors regarding the City of Falcon Heights assessment policies should be considered:

- The properties owned by the Falcon Heights UCC are tax-exempt parcels, and have been included in the preliminary assessment roll as such. The City may choose to pursue a benefit appraisal on the properties to ensure the assessment proposed does not exceed the estimated benefit to the property, as required by Minnesota State Statute 429. This may result in a higher City cost, which could be offset by using additional State Aid funds. Staff will update the City Council as information becomes available.
- Garden Avenue assessments are higher than they would be for a similar project on a north-south street due to the orientation of the lots. The majority of the adjacent lots have their long side on Garden Avenue. This means they were not assessed for the improvements to the street on their short side, but, in accordance with the assessment policy, they will have a long assessable frontage.

Area 1 – Holton Street, Albert Street, Sheldon Street, Ruggles Avenue

This area includes 8,705 feet of frontage, 504 feet of which is not assessable due to corner lots. There are 96 parcels eligible for assessment. The average residential assessment is estimated at \$1,495.34. The estimated assessment rates are shown below:

- Residential (40% of the improvement cost) = \$19.62/ft
- Tax-Exempt (100% of the improvement cost) = \$49.05/ft

Area 2 – Garden Avenue

This area includes 4,241 feet of frontage, 553 feet of which is not assessable due to corner lots. There are 22 parcels eligible for assessment. The average residential assessment is estimated at \$8,844.57. The estimated assessment rates are shown below:

- Residential (40% of the improvement cost) = \$64.14/ft
- Tax-Exempt (100% of the improvement cost) = \$160.34/ft

No assessments are proposed for funding pathways, if constructed.

PUBLIC INVOLVEMENT

The City hosted two open houses for the Northeast Quadrant as a whole, on April 5, 2022 and July 20, 2022, to discuss the Ruggles Street pathway proposal and Garden Avenue. These open houses were widely attended by both residents adjacent to the proposed improvements and also residents from other Northeast Quadrant streets. Layouts with project concepts were available for viewing and discussion.

The residents expressed concerned about assessment cost, snow maintenance and impact on their yard of the pathway options. Several residents who live on Garden Avenue didn't see a need for a sidewalk as people currently walk on the street. Residents had concerns about speeding on Garden Avenue. They also expressed desire to have parking on Garden Avenue. Comments received are summarized and written comments are attached in the Appendix.

An informational meeting was held on October 5, 2022 for residents who live adjacent to the project streets and Ruggles pathway option. Approximately 10 people attended. The meeting was presentation format, where staff presented information on the City's Pavement Management Program, the proposed improvements, and the City's Assessment Policy. Residents asked clarifying questions about the City's assessment policy, the history of Garden Avenue, and about pedestrian facilities. As Garden Avenue was proposed for improvement in 2015, a Garden Avenue resident asked why they should bear a higher assessment cost for construction in 2023.

PROPOSED PROJECT SCHEDULE

If this project is approved, the proposed project schedule is shown below. Items marker is the project schedule and Council Action items are noted with a CC:

CC Receive Feasibility report and Set Improvement Hearing	October 26, 2022
CC Improvement Hearing, Order Improvement, and Authorize Preparation of Plans & Specifications	November 9, 2022
CC Approve Plans & Specifications, and Order Advertisement for Bid	January, 2023
Bid Opening	February 2023
CC Award Contract	March 2023
Construction Start	Summer 2023
Substantial Completion	Fall 2023
CC Set Assessment Hearing	October 2023
CC Assessment Hearing	October 2023

SUMMARY & RECOMMENDATIONS

Based on the information and analysis included in this report, the 2023 Street Rehabilitation Project, FH 23-01, is feasible, necessary and cost effective. The following is recommended:

1. The Falcon Heights City Council accept this feasibility study and report and order public hearing for November 9, 2022.
2. After receiving the appropriate staff reports, information and input from the public hearing, the City Council shall:

- a. Determine whether to proceed with or reject the proposed public improvements;
 - b. Determine which Garden Avenue pathway option to proceed with or reject;
 - c. Determine the roadway width of Garden Avenue; and
 - d. Determine Ruggles Avenue pathway option to proceed with or reject.
3. Based on the outcome of the public hearing, the Council can order the proposed improvements and authorize the preparation of plans and specifications.

APPENDIX 2: PROPOSED TYPICAL SECTIONS



Garden Avenue - Option Summary

Proposed Typical Sections

Concept Summary

Please note: Elements from the different concepts can be “mixed and matched” to create the best project for the neighborhood. Sidewalk concepts would construct the sidewalk at the existing curb line to preserve driveway parking. Parking bump-outs, rather than on the whole block, may be an appropriate option as well.

Segment 1 - Garden Ave – West of Holton Street

Option 1 (Existing Street Design)

Street Width 36 Feet

11-foot Drive Lanes

7-foot Parking Lanes on Both Sides



Option 2 (Existing Street Design Modified)

Street Width 36 Feet

11-foot Drive Lanes

8-foot Parking Lanes on South Side

6-foot shoulder on North Side, No Parking



Segment 1 - Garden Ave – West of Holton Street

Option 3 (Concept B modified)

Street Width 34 Feet (Narrowed 2 Feet by Moving the North Curb)

11-foot Drive Lanes

7-foot Parking Lane on South Side

5-foot shoulder on North Side, No Parking



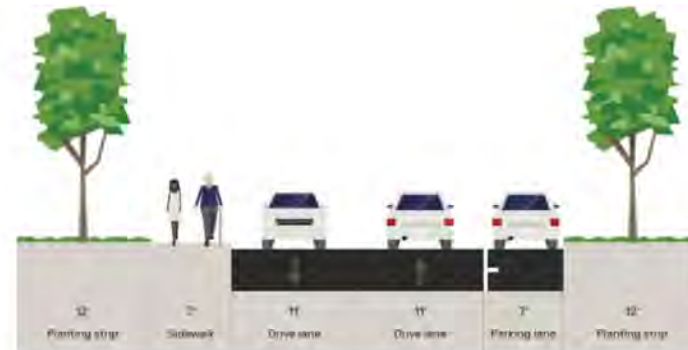
Option 4 (Concept A)

Street Width 29 Feet (Narrowed 7 Feet by Moving the North Curb)

11-foot Drive Lanes

7-foot Parking Lane on South Side

7-foot Sidewalk on North Side, Next to the Curb



Segment 2 - Garden Ave – Holton to Hamline

Option 5 (Existing Design)

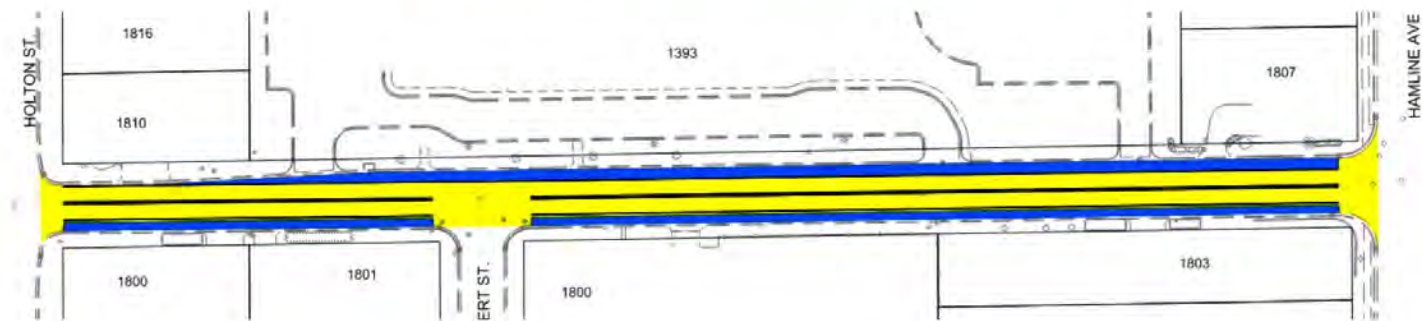
Street Width 42 feet

12-foot drive lanes

9-foot parking south side only

9-foot shoulder north side currently signed no parking.

No sidewalk



Option 6 (Concept G)

Street Width 32-foot (Narrowed 10 Feet by Moving North Curb)

12-foot drive lanes

8-foot parking south side only

Elimination of north shoulder currently signed no parking.

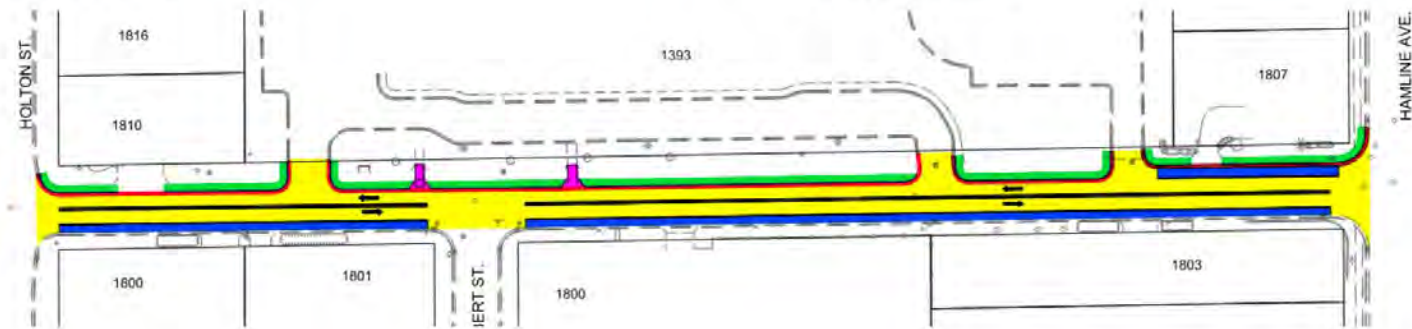
No sidewalk

East of School Property: North Side Shoulder for School Pick-Up Queuing, No Sidewalk



In front of school

In front of 1807 Hamline



Option 7 (Concept F)

Street Width 32-foot (Narrowed 10 Feet by Moving North Curb)

12-foot drive lanes

8-foot parking south side only

Elimination of north shoulder currently signed no parking.

6-foot sidewalk

5-foot Boulevard between sidewalk and curb adjacent to the School Property

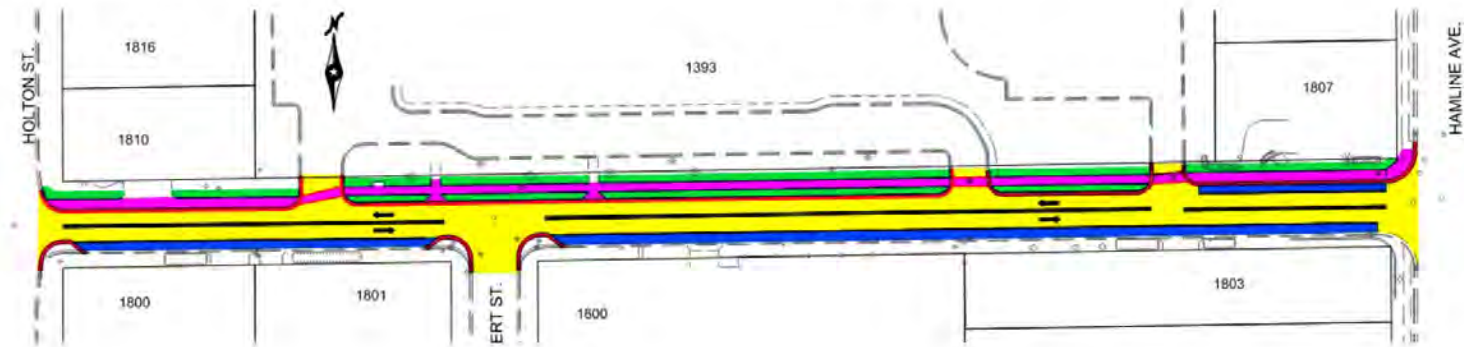
East of School Property: North Side Shoulder for School Pick-Up Queuing, 7-foot Sidewalk, No Boulevard

Bumpouts at intersection to eliminate parking near intersection/shorter pedestrian crossings



In Front of School

In Front of 1807 Hamline



APPENDIX 3: PUBLIC COMMENT SUMMARY

Garden Avenue Open House Comments

Phone or email comments received

Location for specific comments included in ()

Wednesday, July 20, 2022

#	Comments
1	Option A - Where does snow go onto sidewalk?
2	Option A - Snow and ice fall (in front of driveway)
3	Option A - Add curb cut (at church entrance)
4	Option A - Add bump outs (at Holton Avenue)
5	Option A - Lots of kids cross here (Holton Avenue)
6	Option B - Snow plow, not walkable
7	Option C - Where do parents wait for kids?
8	Option D - Who is served by this model? No pedestrian walkway and no parking?
9	Option D - This tree block view of stop sign and is in poor health. (SW corner of Asbury and Garden)
10	Option E - Loved bumpout (at Albert)
11	Option E - Is there enough room for busses to turn (school bus entrance)
12	Option E - Concerned about garage and slab. Does not want sidewalk. Considers significant impact.
13	Option F - Who plows sidewalk?
14	Option G - Where do kids walk?
15	Option G - This is a dangerous plan. Snow banks.
16	Option G - Concerned about ped safety compared to existing.
17	Use Franchise Fees to offset the assessment cost - Garden Ave shouldn't be assessed higher than the other paved streets
18	Likes bumpouts (Albert Street and Holton)
19	School district should offer plowing to get "buy-in" from residents (school block)
20	Sidewalk (south side of the church's block), mid-block bump-out (parking lot to the church), parking for disabled church members and deliveries (south side of church)
21	Wants sidewalk, prefers Option A with snow storage. Concern about children walking on a busy street. Long term goals of the city are to be walkable, safe, connecting parks and green spaces. Both the school and church entities will be here 20 years from now.... many of these residents opposing change will NOT.
22	Leave Ruggles pathway as-is, hard for homeowners to shovel, wouldn't be used by disabled persons to get to school
23	Parking lanes are needed (school and church)
24	The city needs to find a way to help transition home owners for winter maintenance. Could the city plow the sidewalks for the first 3 years? Help find resources for those who claim they cannot afford a plow service?
25	Strongly in favor of adding sidewalks to mitigate risks to children and families going to school. Feels unsafe walking with kids to school in winter when snow drifts keep you on the road
26	Drainage concern with winter icing, several falls (church)
27	Seems fair to share assessment for sidewalk among the whole neighborhood rather than just Garden Ave
28	Likes the options narrowing the road, it was quieter back when it was narrower.
29	Likes sidewalk on Garden Ave, likes bumpouts
30	Cars use Garden near 1801 Asbury to pull off Snelling Ave and make phone calls. This parking area is needed.
31	
32	
33	
34	
35	
36	

Includes written comments on layouts.

APPENDIX 5: DRAFT ASSESSMENT ROLLS

[ON FOLLOWING PAGES]

ParcelID	BuildingNu	StreetName	StreetSuff	Front Footage	LandmarkBu	TaxExemptYN	Assessment Rate	Assessment Amount
152923310108	1393	GARDEN	AVE	665	Falcon Heights Elementary Sch	Y	\$ 49.05	\$ 32,618.25
152923340131	1411	LARPENTEUR	AVE	140		N	\$ 19.62	\$ 2,746.80
152923310044	1436	ROSELAWN	AVE	162		N	\$ 19.62	\$ 3,178.44
152923340130	1695	HOLTON	ST	126		N	\$ 19.62	\$ 2,472.12
152923340065	1700	HOLTON	ST	80		N	\$ 19.62	\$ 1,569.60
152923340128	1701	HOLTON	ST	80		N	\$ 19.62	\$ 1,569.60
152923340066	1706	HOLTON	ST	63		N	\$ 19.62	\$ 1,236.06
152923340097	1707	HOLTON	ST	68		N	\$ 19.62	\$ 1,334.16
152923340067	1712	HOLTON	ST	63		N	\$ 19.62	\$ 1,236.06
152923340096	1713	HOLTON	ST	60		N	\$ 19.62	\$ 1,177.20
152923340095	1717	HOLTON	ST	60		N	\$ 19.62	\$ 1,177.20
152923340068	1718	HOLTON	ST	63		N	\$ 19.62	\$ 1,236.06
152923340094	1723	HOLTON	ST	60		N	\$ 19.62	\$ 1,177.20
152923340069	1724	HOLTON	ST	63		N	\$ 19.62	\$ 1,236.06
152923340093	1729	HOLTON	ST	60		N	\$ 19.62	\$ 1,177.20
152923340070	1732	HOLTON	ST	63		N	\$ 19.62	\$ 1,236.06
152923340092	1735	HOLTON	ST	60		N	\$ 19.62	\$ 1,177.20
152923340120	1740	HOLTON	ST	69		N	\$ 19.62	\$ 1,353.78
152923340091	1741	HOLTON	ST	60		N	\$ 19.62	\$ 1,177.20
152923340121	1746	HOLTON	ST	69		N	\$ 19.62	\$ 1,353.78
152923340090	1747	HOLTON	ST	60		N	\$ 19.62	\$ 1,177.20
152923340089	1753	HOLTON	ST	60		N	\$ 19.62	\$ 1,177.20
152923340073	1754	HOLTON	ST	63	Posel Communications Inc	N	\$ 19.62	\$ 1,236.06
152923340074	1756	HOLTON	ST	63		N	\$ 19.62	\$ 1,236.06
152923340088	1757	HOLTON	ST	60		N	\$ 19.62	\$ 1,177.20
152923340087	1765	HOLTON	ST	60		N	\$ 19.62	\$ 1,177.20
152923340075	1766	HOLTON	ST	60		N	\$ 19.62	\$ 1,177.20
152923340076	1770	HOLTON	ST	56		N	\$ 19.62	\$ 1,098.72
152923340086	1771	HOLTON	ST	60		N	\$ 19.62	\$ 1,177.20
152923340085	1775	HOLTON	ST	60		N	\$ 19.62	\$ 1,177.20
152923340077	1776	HOLTON	ST	73		N	\$ 19.62	\$ 1,432.26
152923340078	1782	HOLTON	ST	63		N	\$ 19.62	\$ 1,236.06
152923340084	1783	HOLTON	ST	60		N	\$ 19.62	\$ 1,177.20
152923340079	1790	HOLTON	ST	60		N	\$ 19.62	\$ 1,177.20
152923340083	1791	HOLTON	ST	60		N	\$ 19.62	\$ 1,177.20
152923340082	1795	HOLTON	ST	126	United Church Falcon Heights	Y	\$ 49.05	\$ 6,180.30
152923310111	1795	HOLTON	ST	322		Y	\$ 49.05	\$ 15,794.10
152923340080	1796	HOLTON	ST	63		N	\$ 19.62	\$ 1,236.06
152923310078	1816	HOLTON	ST	62		N	\$ 19.62	\$ 1,216.44
152923310077	1820	HOLTON	ST	62		N	\$ 19.62	\$ 1,216.44
152923310076	1824	HOLTON	ST	62		N	\$ 19.62	\$ 1,216.44
152923310075	1830	HOLTON	ST	62		N	\$ 19.62	\$ 1,216.44
152923310074	1834	HOLTON	ST	62		N	\$ 19.62	\$ 1,216.44
152923310061	1835	HOLTON	ST	75		N	\$ 19.62	\$ 1,471.50
152923310062	1843	HOLTON	ST	75		N	\$ 19.62	\$ 1,471.50
152923310073	1844	HOLTON	ST	62		N	\$ 19.62	\$ 1,216.44
152923310107	1849	HAMLIN	AVE	125		N	\$ 19.62	\$ 2,452.50
152923310063	1849	HOLTON	ST	75		N	\$ 19.62	\$ 1,471.50
152923310072	1850	HOLTON	ST	62		N	\$ 19.62	\$ 1,216.44
152923310071	1852	HOLTON	ST	133		N	\$ 19.62	\$ 2,609.46
152923310064	1857	HOLTON	ST	75		N	\$ 19.62	\$ 1,471.50
152923310033	1863	ALBERT	ST	145		N	\$ 19.62	\$ 2,844.90
152923310017	1863	SHELDON	ST	137		N	\$ 19.62	\$ 2,687.94
152923310018	1864	ALBERT	ST	123		N	\$ 19.62	\$ 2,413.26
152923310034	1864	HOLTON	ST	133		N	\$ 19.62	\$ 2,609.46
152923310009	1864	SHELDON	ST	139		N	\$ 19.62	\$ 2,727.18
152923310091	1865	HAMLIN	AVE	123		N	\$ 19.62	\$ 2,413.26
152923310065	1865	HOLTON	ST	75		N	\$ 19.62	\$ 1,471.50
152923310035	1868	HOLTON	ST	62		N	\$ 19.62	\$ 1,216.44
152923310032	1869	ALBERT	ST	77		N	\$ 19.62	\$ 1,510.74
152923310066	1869	HOLTON	ST	75		N	\$ 19.62	\$ 1,471.50
152923310016	1869	SHELDON	ST	77		N	\$ 19.62	\$ 1,510.74
152923310019	1870	ALBERT	ST	77		N	\$ 19.62	\$ 1,510.74
152923310008	1870	SHELDON	ST	77		N	\$ 19.62	\$ 1,510.74
152923310036	1874	HOLTON	ST	62		N	\$ 19.62	\$ 1,216.44
152923310031	1877	ALBERT	ST	72		N	\$ 19.62	\$ 1,412.64
152923310067	1877	HOLTON	ST	75		N	\$ 19.62	\$ 1,471.50
152923310015	1877	SHELDON	ST	77		N	\$ 19.62	\$ 1,510.74
152923310020	1878	ALBERT	ST	75		N	\$ 19.62	\$ 1,471.50
152923310007	1878	SHELDON	ST	77		N	\$ 19.62	\$ 1,510.74
152923310037	1880	HOLTON	ST	62		N	\$ 19.62	\$ 1,216.44
152923310068	1881	HOLTON	ST	75		N	\$ 19.62	\$ 1,471.50
152923310030	1883	ALBERT	ST	79		N	\$ 19.62	\$ 1,549.98
152923310014	1883	SHELDON	ST	76		N	\$ 19.62	\$ 1,491.12
152923310021	1884	ALBERT	ST	77		N	\$ 19.62	\$ 1,510.74
152923310006	1884	SHELDON	ST	76		N	\$ 19.62	\$ 1,491.12
152923310038	1886	HOLTON	ST	62		N	\$ 19.62	\$ 1,216.44
152923310013	1889	SHELDON	ST	77		N	\$ 19.62	\$ 1,510.74
152923310029	1891	ALBERT	ST	77		N	\$ 19.62	\$ 1,510.74
152923310069	1891	HOLTON	ST	75		N	\$ 19.62	\$ 1,471.50
152923310022	1892	ALBERT	ST	76		N	\$ 19.62	\$ 1,491.12
152923310039	1892	HOLTON	ST	62		N	\$ 19.62	\$ 1,216.44
152923310005	1892	SHELDON	ST	77		N	\$ 19.62	\$ 1,510.74
152923310023	1896	ALBERT	ST	77		N	\$ 19.62	\$ 1,510.74
152923310040	1896	HOLTON	ST	62		N	\$ 19.62	\$ 1,216.44
152923310004	1896	SHELDON	ST	76		N	\$ 19.62	\$ 1,491.12
152923310028	1897	ALBERT	ST	76		N	\$ 19.62	\$ 1,491.12
152923310070	1897	HOLTON	ST	75		N	\$ 19.62	\$ 1,471.50
152923310012	1897	SHELDON	ST	76		N	\$ 19.62	\$ 1,491.12
152923310027	1905	ALBERT	ST	77		N	\$ 19.62	\$ 1,510.74
152923310011	1905	SHELDON	ST	76		N	\$ 19.62	\$ 1,491.12
152923310024	1906	ALBERT	ST	77		N	\$ 19.62	\$ 1,510.74
152923310041	1906	HOLTON	ST	62		N	\$ 19.62	\$ 1,216.44
152923310003	1906	SHELDON	ST	77		N	\$ 19.62	\$ 1,510.74
152923310042	1910	HOLTON	ST	62		N	\$ 19.62	\$ 1,216.44
152923310043	1914	HOLTON	ST	64		N	\$ 19.62	\$ 1,255.68

Non-Assessed

504

Total Garden Ave Frontage

8705 Feet

Total Assessment \$ 193,659.21

Residential Footage

7088 Feet

\$ 139,066.56

Tax-Exempt Footage

1113 Feet

\$ 54,592.65

ParcelID	BuildingNu	StreetName	StreetSuff	Front Footage	LandmarkBu	TaxExemptY	Shape_Area	Assessment Rate	Assessment Amount
152923340082	1795	HOLTON	ST	269	United Church Falcon Heights	Y	3144.587721	\$ 160.34	\$ 43,131.46
152923340081	1800	HOLTON	ST	133		N	814.603913	\$ 64.14	\$ 8,530.62
152923340045	1801	ALBERT	ST	136		N	795.0729334	\$ 64.14	\$ 8,723.04
152923340044	1800	ALBERT	ST	176		N	1883.353773	\$ 64.14	\$ 11,288.64
152923340001	1803	HAMLIN	AVE	176		N	1432.801041	\$ 64.14	\$ 11,288.64
152923330088	1802	ASBURY	ST	134		N	773.9533434	\$ 64.14	\$ 8,594.76
152923330060	1803	ARONA	ST	134		N	771.0093924	\$ 64.14	\$ 8,594.76
152923330059	1802	ARONA	ST	134		N	766.7522857	\$ 64.14	\$ 8,594.76
152923330031	1803	SIMPSON	ST	134		N	763.8091285	\$ 64.14	\$ 8,594.76
152923330030	1802	SIMPSON	ST	134		N	759.5542827	\$ 64.14	\$ 8,594.76
152923330001	1803	PASCAL	ST	133		N	754.2643167	\$ 64.14	\$ 8,530.62
152923320108	1810	SIMPSON	ST	134		N	727.9478677	\$ 64.14	\$ 8,594.76
152923320107	1811	PASCAL	ST	133		N	728.2853416	\$ 64.14	\$ 8,530.62
152923320088	1810	ARONA	ST	134		N	721.2236725	\$ 64.14	\$ 8,594.76
152923320087	1811	SIMPSON	ST	134		N	723.9678764	\$ 64.14	\$ 8,594.76
152923320069	1808	ASBURY	ST	134		N	714.4960799	\$ 64.14	\$ 8,594.76
152923320068	1811	ARONA	ST	134		N	717.2410744	\$ 64.14	\$ 8,594.76
152923310111	1795	HOLTON	ST	134		Y	4016.612118	\$ 160.34	\$ 21,485.56
152923310108	1393	GARDEN	AVE	665	Falcon Heights Elementary Sch	Y	35452.41886	\$ 160.34	\$ 106,626.10
152923310101	1807	HAMLIN	AVE	126		N	957.3236552	\$ 64.14	\$ 8,081.64
152923310079	1810	HOLTON	ST	133		N	794.823746	\$ 64.14	\$ 8,530.62
152923310059	1806	PASCAL	ST	134		N	1207.738902	\$ 64.14	\$ 8,594.76

Non-Assessable Frontage 553

Total Garden Ave Frontage 4241 Feet

Residential Footage 2620 Feet

Tax-Exempt Footage 1068 Feet

Total Assessment \$ 339,289.92

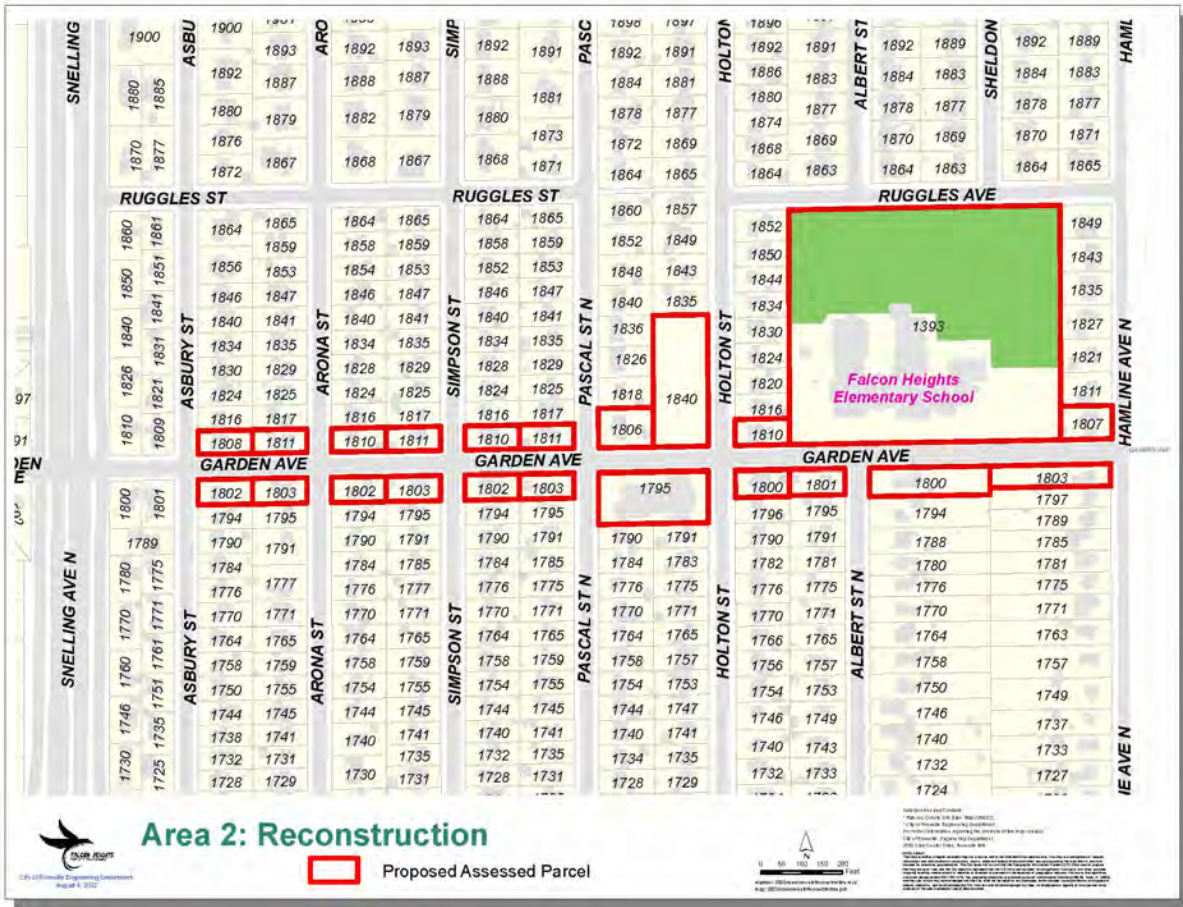
\$ 168,046.80

\$ 171,243.12

Note: Parcel depth is capped at 176 feet, applies to 1800 Albert St. and 1803 Hamline Ave.

APPENDIX 6: DRAFT ASSESSMENT MAPS





APPENDIX 7: GEOTECHNICAL REPORT

[ON FOLLOWING PAGES]

Geotechnical Evaluation Report

Falcon Heights 2023 Pavement Management
Falcon Heights, Minnesota

Prepared for

City of Falcon Heights

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.

Richard S. Jett, PE
Project Engineer
License Number: 58781
June 13, 2022

Project B2203417

Braun Intertec Corporation

June 13, 2022

Project B2203417

Stephanie Smith, PE
City of Falcon Heights
2077 Larpenteur Avenue West
Falcon Heights, MN 55113

Re: Geotechnical Evaluation Report
Falcon Heights 2023 Pavement Management
Falcon Heights, Minnesota

Dear Ms. Smith:

We are pleased to present this Geotechnical Evaluation Report for the above-referenced project. The following report provides the results of our evaluation and should be read in its entirety.

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 Richard Jett at 815.545.7059 (rjett@braunintertec.com) or Josh Kirk at 507.514.1348 (jkirk@braunintertec.com)

Sincerely,

BRAUN INTERTEC CORPORATION

Richard S. Jett, PE
Project Engineer

Joshua L. Kirk, PE
Account Leader, Senior Engineer

Table of Contents

Description	Page
A. Introduction.....	1
A.1. Project Description	1
A.2. Current Roadway Designations	2
A.3. Purpose.....	3
A.4. Background Information and Reference Documents.....	3
A.5. Scope of Services	3
B. Results	4
B.1. Geologic Overview	4
B.2. Visual Field Observations	4
B.3. Existing Pavement Sections	5
B.4. Boring Results.....	6
B.5. Groundwater	7
B.6. Laboratory Test Results	7
C. Recommendations	8
C.1. Design and Construction Discussion	8
C.1.a. Understanding of Project Scope.....	8
C.1.b. General Pavement Conditions.....	8
C.1.c. Observations of Subgrade Soils.....	8
C.1.d. Pavement Improvement Options.....	8
C.2. Pavement Improvement Recommendations	9
C.2.a. Pavement Improvement Approach – Falcon Woods Area (ST-1 through ST-7).....	9
C.2.b. Pavement Improvement Approach – Garden Avenue Area (ST-8 through ST-11).....	10
C.3. Site Grading and Excavations	11
C.3.a. Engineered Fill Materials and Compaction	11
C.4. Pavements	12
C.4.a. Pavement Subgrade Preparation – Full Reconstruction	12
C.4.b. Proofroll Observations	13
C.4.c. Design Sections	13
C.4.d. Bituminous Pavement Materials	14
C.4.e. Subgrade Drainage	14
C.4.f. Performance and Maintenance	14
D. Procedures.....	14
D.1. Penetration Test Borings	14
D.2. Exploration Logs	15
D.2.a. Log of Boring Sheets	15
D.2.b. Geologic Origins	15
D.3. Material Classification and Testing	15
D.3.a. Visual and Manual Classification	15
D.3.b. Laboratory Testing	15
D.4. Groundwater Measurements.....	15
E. Qualifications.....	16
E.1. Variations in Subsurface Conditions.....	16
E.1.a. Material Strata	16
E.1.b. Groundwater Levels	16
E.2. Continuity of Professional Responsibility.....	16

Table of Contents (continued)

Description	Page
E.2.a. Plan Review	16
E.2.b. Construction Observations and Testing	17
E.3. Use of Report.....	17
E.4. Standard of Care.....	17

Appendix

Soil Boring Location Sketch
Log of Boring Sheets ST-1 through ST-11
Pavement Core Photographs
Descriptive Terminology of Soil

DRAFT

A. Introduction

A.1. Project Description

This Geotechnical Evaluation Report addresses the planned improvements to select roadways located in Falcon Heights, Minnesota. Tables 1 and 2 below provide a summary of project details.

Table 1. Falcon Woods Area (Borings ST-1 through ST-7)

Aspect	Description
Streets Included	Autumn Street, Summer Street, Prior Avenue, Moore Street, Howell Street, and Garden Avenue.
Pavement Type	Bituminous pavement with aggregate base layer
Assumed Average Annual Daily Traffic (AADT)*	600 or less
Estimated ESAL's	230,000*

*Assumed value over a 20-year period.

Table 2. Garden Avenue Area (ST-8 through ST-11)

Aspect	Description
Streets Included	Garden Avenue from Hamline Avenue to Snelling Avenue
Pavement Type	Bituminous pavement with aggregate base layer
Assumed Average Annual Daily Traffic (AADT)*	1000
Estimated ESAL's	380,000*

*Assumed value over a 20-year period.

The figure below shows an illustration outlining where pavement improvements are planned.

Figure 1. Street Improvement Layout

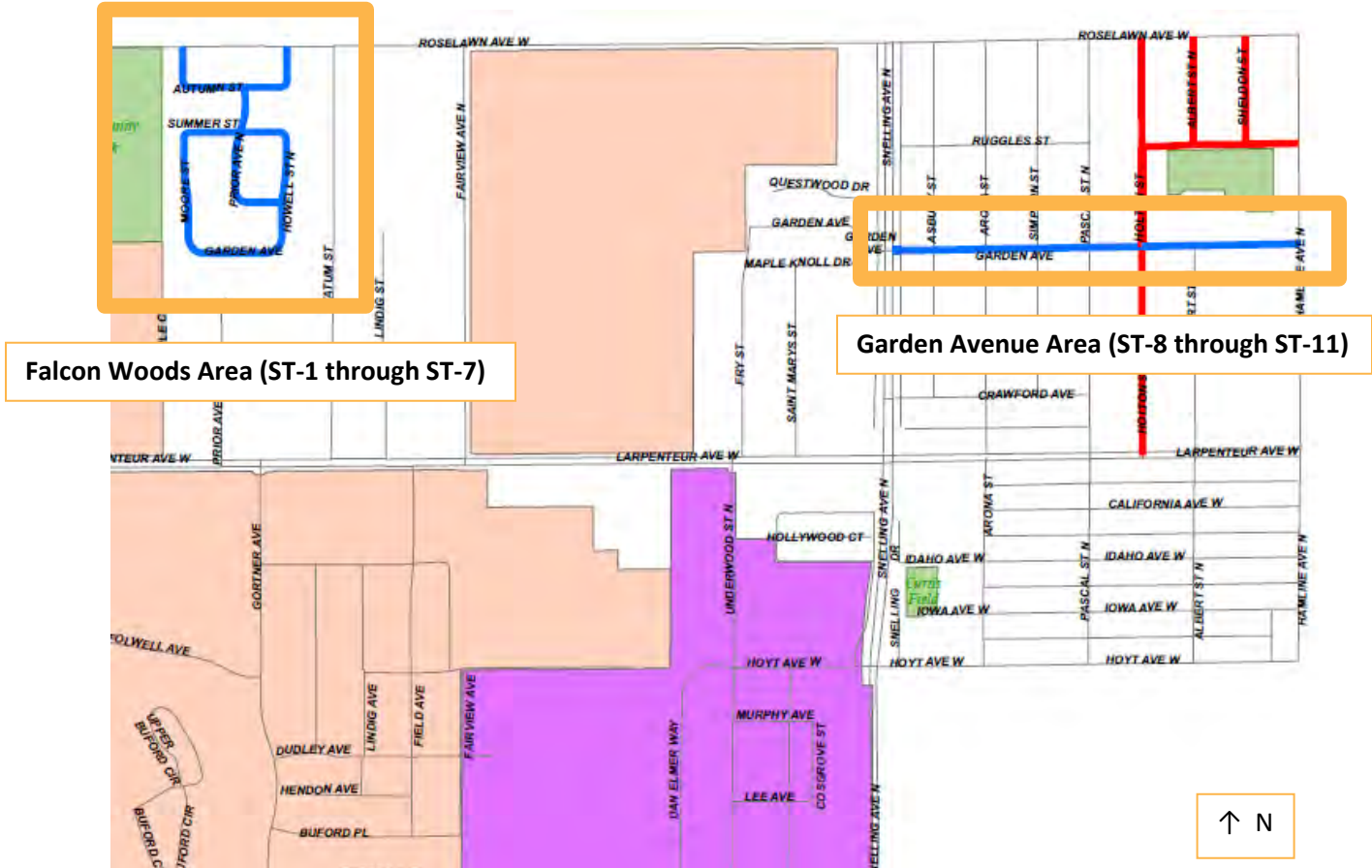


Figure furnished by the City of Roseville and dated March 8, 2022.

A.2. Current Roadway Designations

Garden Avenue, between Hamline Avenue and Snelling Avenue, is classified as an urban minor collector with an Average Annual Daily Traffic (AADT) ranging from 600 to 1000. The Falcon Woods neighborhood roadways, including Autumn Street, Summer Street, Prior Avenue, Moore Steet, Howell Street, and Garden Avenue (from Moore Street to Howell Street) are classified as residential roadways with an AADT of less than 600.

A.3. Purpose

The purpose of our geotechnical evaluation was to core the existing pavement, characterize the subsurface soil conditions at selected exploration locations, evaluate their impact on the project, and provide geotechnical recommendations for use in the design and rehabilitation of the selected roadways.

A.4. Background Information and Reference Documents

We reviewed the following information:

- Proposed 2023 Pavement Management Map, furnished by the City of Roseville and dated March 8, 2022.

In addition to the provided source, we have used several publicly available sources of information including topography maps obtained from the Minnesota Department of Natural Resources (MnTOPO website) and Google Earth aerial photographs.

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.5. Scope of Services

We performed our scope of services for the project in accordance with our Proposal for a Geotechnical Evaluation (QTB156087) dated April 4, 2022. 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 clearing the exploration location of underground utilities. The City of Falcon Heights selected and we staked/marked the new exploration locations in the field. We acquired the surface elevations and locations with GPS technology using the State of Minnesota's permanent GPS base station network. The Soil Boring Location Sketch included in the Appendix shows the approximate locations of the borings.

- Performing 11 standard penetration test (SPT) borings, denoted as ST-1 through ST-11, to nominal depths of 5 feet below grade across the site.
- Core the pavement at each boring location for a total of eleven pavement cores.
- 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 reconstruction/rehabilitation of the existing roadways and pavement design thicknesses.

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. Visual Field Observations

We performed a site visit to visually observe the conditions of the existing pavements across both project areas following completion of the field work and laboratory testing. Visual observations, in combination with the results of the geotechnical evaluation, can offer additional insight into the subgrade conditions in areas where soil borings were not completed. In addition, these visual observations of the existing pavements can help determine the practicality of different rehabilitation options and how the previous pavement section has held up since its previous improvements.

In the Falcon Woods area (Borings ST-1 through ST-7), significant surface distress in the form of surface cracks and some raveling was observed throughout the entire project area. In general, minimal amounts of potholes and rutting were observed with localized areas exhibiting more distress, specifically rutting along Summer Street between Prior Avenue and Howell Street and potholes near the intersection of Howell Street and Prior Avenue. The roadways showed previous signs of maintenance, including bituminous patches and sealed surface cracks.

The Garden Avenue project area (ST-8 through ST-11) showed significant signs of distress in the form of surface cracks and raveling with occasional potholes throughout. Rutting was observed throughout the project area but was more heavily concentrated on the western half of Garden Avenue. The roadway showed previous signs of maintenance, including bituminous patches and sealed surface cracks. The adjacent curb and gutter also showed signs of distress in the form of settlement.

B.3. Existing Pavement Sections

Table 3 below outlines the existing pavement section thicknesses that were encountered during our geotechnical exploration.

Table 3. Existing Pavement Section Profile

Boring Location	In Place Measured Bituminous Pavement Thickness (in)	In-Place Measured Apparent Aggregate Base Thickness (in)
ST-1	3 1/2	5
ST-2	3 1/2	7
ST-3	4	5
ST-4	4 1/2	5
ST-5	3	5 1/2
ST-6	3	5 1/2
ST-7	4	4
ST-8	4	4
ST-9	4 1/2	7
ST-10	4	6
ST-11	7	5

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

B.4. Boring Results

Tables 4 and 5 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 sheets in the Appendix include definitions of abbreviations used in Tables 4 and 5.

Table 4. Subsurface Profile Summary – Falcon Woods Area (Borings ST-1 through ST-7)

Strata	Soil Type - ASTM Classification	N values Blows Per Foot (BPF)	Commentary and Details
Pavement section	N/A	N/A	<ul style="list-style-type: none"> ▪ Observed bituminous pavement thicknesses ranged from 3 to 4 inches. ▪ Apparent aggregate base thicknesses ranged from 4 to 7 inches. ▪ Total pavement section thicknesses ranged from 8 to 10 1/2 inches.
Fill	SM, SP-SM, SC	7 to 40 BPF	<ul style="list-style-type: none"> ▪ Observed below the pavement sections and extended to the termination depths of the borings. ▪ Consisted of sandy soils at our exploration locations. ▪ Moisture conditions were generally moist. ▪ Seams of clay soils were encountered in Borings ST-2, ST-5, and ST-7. ▪ Highly variable, soils intermixed. ▪ Existing fill contained variable amounts of debris, including concrete and bituminous.

Is "debris" referring to the trace amounts of gravel noted in the boring logs?

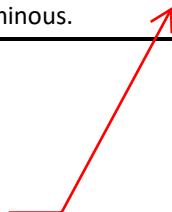


Table 5. Subsurface Profile Summary – Garden Avenue Area (ST-8 through St-11)

Strata	Soil Type - ASTM Classification	N values Blows Per Foot (BPF)	Commentary and Details
Pavement section	N/A	N/A	<ul style="list-style-type: none"> ▪ Observed bituminous pavement thicknesses ranged from 4 to 7 inches. ▪ Apparent aggregate base thicknesses ranged from 4 to 7 inches. ▪ Total pavement section thicknesses ranged from 8 to 12 inches. ▪ The thicker bituminous pavement encountered at Boring ST-11 is likely due to a boring being completed within a previously patched pothole.
Fill	SM, SP-SM	9 to 50 BPF	<ul style="list-style-type: none"> ▪ Observed below the pavement sections and extended to the termination depths of the borings. ▪ Fill consisted of sandy soils. ▪ Moisture conditions were generally moist. ▪ Slightly organic fill soils were encountered in boring ST-11 at a depth ranging from approximately 2 to 4 feet below existing grade. ▪ Existing fill contained variable amounts of debris, including concrete debris.

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

B.5. Groundwater

We did not observe groundwater while advancing our borings. Therefore, it appears that groundwater is below the depths explored. Project planning should anticipate seasonal and annual fluctuations of groundwater. Should a more accurate determination of groundwater be needed, we recommend the completion of additional soil borings and the installation of piezometers.

B.6. Laboratory Test Results

The boring logs show the results of the laboratory testing we performed next to the tested sample depth.

The moisture content of select fill soil samples ranged from 3 to 14 percent moisture by weight. Sieve analysis tests (passing the No. 200 sieve only) performed on select fill soil samples indicated between 5 to 44 percent particles passing the No. 200 sieve by weight. Organic content tests performed on select

samples indicated between 1 to 2 percent organic material, by weight. These percentages classify the material as non- to slightly organic.

C. Recommendations

C.1. Design and Construction Discussion

C.1.a. Understanding of Project Scope

Based on the provided request for proposal dated March 28, 2022, we understand that the City of Falcon Heights is considering cost efficient improvements to the project areas consisting of pavement rehabilitation options and possible reconstruction should the conditions warrant. We assume there will

likely not be any utility improvements or large-scale subgrade improvements planned during these improvement projects. We expect that pavement rehabilitation options will be the first choice of the City

of Falcon Heights.

City anticipated full reconstruction of both areas. Watermain replacement is planned on Garden Ave, Autumn St and Prior Ave (from Summer St to Autumn St)

C.1.b. General Pavement Conditions

Generally, pavement distress observed throughout the project site appears to be in the form of alligator cracking, some potholes, etc. Some rutting was observed in the Falcon Woods neighborhood but on a relatively minor scale. More significant rutting was observed in the Garden Avenue area. Both project areas showed previous signs of maintenance, including bituminous patches and sealed surface cracks.

C.1.c. Observations of Subgrade Soils

Subgrade soils in the Falcon Woods project area generally consisted of sandy fill subgrade soils with some zones of clay-based soils observed. The Garden Avenue project area generally contained sandy subgrade fill soils. Some debris, including concrete and bituminous, was encountered across both project areas. Based on the soil boring samples, the subgrade soils contain minimal organic material within the explored depths.

C.1.d. Pavement Improvement Options

Several options are available for pavement improvement. One option available is full reconstruction, which includes full removal of the existing pavement section, preparation of the subgrade soils (as needed), and placement of a new pavement section. Other options available include Full-Depth Reclamation (FDR), or mill and overlay techniques, which utilize the reuse of the existing pavement to reconstruct a new pavement section. These approaches do not include full removal of the existing pavement section and limits the opportunity to observe and improve the subgrade soils.

While the latter two approaches tend to be more economical, there is a small risk that unforeseen deficiencies in the existing subgrade may lead to future pavement impacts. If subgrade performance is expected to be an issue in the future, rehabilitation options may not be practical or economical to perform and will likely not provide the highest quality pavement over the long term.

If observation of the existing subgrade soils are a priority, we recommend reconstruction of the existing pavement section. This option would provide the highest quality pavement over the longest possible service life but is typically more expensive than other rehabilitation options. We would recommend the existing bituminous pavement and aggregate base layers be removed, the existing subgrade recompacted and minor soil corrections performed as needed, and a new pavement section, including bituminous and aggregate base, be placed.

C.2. Pavement Improvement Recommendations

The following sections provide our recommendations for each of the proposed improvement areas discussed in the RFP. In addition to our recommended approach, we understand there may be cost implications to the city. We encourage the city to investigate multiple approaches to improving the pavements, while understanding that each approach has a slightly different life cycle and subsequent maintenance cycle. While one approach may be the most cost-effective in the short term, the maintenance program may be more involved and have higher cost in the future.

C.2.a. Pavement Improvement Approach – Falcon Woods Area (ST-1 through ST-7)

Based on the results of our exploration, it appears that the existing pavement has reached the end of its lifespan. Based on the type of distress noted in the pavements, and the results of our subsurface exploration, it appears that the existing subgrade is generally sandy in nature and does not appear to be in need of major improvement. Therefore, pavement improvement techniques such as a mill and overlay, or a full-depth reclamation are feasible options. As noted previously, these techniques do not allow for observations of the underlying subgrade soils and improvements to the subgrade. The design team should analyze the cost and practicality associated with each option and choose the option that will best suit the budget, schedule, lifespan, and performance standards for the project. These options will often require more frequent maintenance compared with a full pavement reconstruction but are typically more cost effective during construction.

To perform an FDR of the existing pavements, the full thickness of the existing asphalt is pulverized and blended with a portion of the existing apparent aggregate base to form a new base layer for future asphalt placement. We recommend leaving a nominal section of the existing aggregate base layer in place so the underlying subgrade soils are not incorporated into the reclaimed material. The table below

provides recommended reclamation depths based on the borings performed. Note that pavement section thicknesses are likely to vary, so the contractor should be observing their reclamation during construction and making any necessary adjustments.

Table 6. Anticipated reclamation depths for FDR

Boring	Anticipated Depth (inches)
ST-1	6
ST-2	8
ST-3	7
ST-4	7
ST-5	6
ST-6	6
ST-7	6

We recommend that a minimum of 2 inches of aggregate base is left into place during reclamation operations. The contractor should make efforts to not reclaim the entire existing pavement section and disturb the underlying subgrade soils during reclamation operations.

FDR is typically more cost efficient to perform as compared to full reconstruction and will eliminate the existing near-surface distresses. We recommend a proofroll is performed once the reclaimed material is at pavement elevations. If areas of unsuitable soils are encountered, it may be difficult, but achievable to perform soil corrections; however the contractor will need to remove and store the reclaimed material to perform any subgrade corrections.

C.2.b. Pavement Improvement Approach – Garden Avenue Area (ST-8 through ST-11)

Based on the results of our exploration, it appears that the existing pavement has reached the end of its lifespan. Due to the visually observed rutting that is occurring and the higher traffic volumes associated with Garden Avenue, it appears there may be subgrade-related issues contributing the distress observed the pavements. As such, we recommend a complete reconstruction of Garden Avenue, which will provide the highest quality pavement and improve the subgrade conditions simultaneously. We recommend the existing bituminous pavement and aggregate be removed, the existing subgrade recompacted, and a new pavement section, including bituminous and aggregate base, be placed.

C.3. Site Grading and Excavations

This section outlines site grading recommendations for the full pavement reconstruction option as outlined in Section C.2.b. Included are recommendations for engineered fill soil types and classification, as well as compaction recommendations for both engineered fill soils and aggregate base material.

C.3.a. Engineered Fill Materials and Compaction

Table 7 below contains our recommendations for engineered fill materials.

Table 7. Engineered Fill Materials

Locations To Be Used	Engineered Fill Classification	Possible Soil Type Descriptions	Gradation	Additional Requirements
<ul style="list-style-type: none"> ▪ Pavement areas 	<ul style="list-style-type: none"> ▪ Pavement fill 	SP, SP-SM, SM	100% passing 3-inch sieve <30% passing No. 200 sieve	< 2% Organic Content (OC) Plasticity index (PI) < 15% Debris Free
<ul style="list-style-type: none"> ▪ Drainage layer Non-frost-susceptible 	<ul style="list-style-type: none"> ▪ Free-draining ▪ Non-frost-susceptible fill ▪ MnDOT select granular 	SP, SP-SM, SW	100% passing 1-inch sieve < 12% passing #200 sieve	See MnDOT 3149.2.B.2

* More select soils comprised of coarse sands with < 5% passing #200 sieve may be needed to accommodate work occurring in periods of wet or freezing weather.

We recommend spreading engineered fill in loose lifts of approximately 12 inches thick. We recommend compacting engineered fill in accordance with the criteria presented below in Table 8. The project documents should specify relative compaction of engineered fill.

Table 8. Compaction Recommendations Summary - Soil

Reference	Relative Compaction, percent (ASTM D698 – Standard Proctor)	Moisture Content Variance from Optimum, percentage points	
		Granular Soils (SP, SP-SM)	Silty Sand Soils (SM)
Within 3 feet of pavement subgrade	100	*	-2 to +1
More than 3 feet below pavement subgrade	95	*	-1 to +3

*The minimum moisture content should be no less than 5 percent and no more than 3 percentage points over optimum.

Table 9. Compaction Recommendations Summary – Aggregate Base

Material	Relative Compaction, percent (ASTM D698 – Standard Proctor)
Aggregate Base	100

The project documents should not allow the contractor to use frozen material as engineered fill or to place engineered fill on frozen material.

We recommend performing density tests in engineered fill to evaluate if the contractors are effectively compacting the soil and meeting project requirements.

C.4. Pavements

C.4.a. Pavement Subgrade Preparation – Full Reconstruction

We recommend the following steps for pavement subgrade preparation, understanding the site will have a grade change of 1 foot or less. Note that project planning may need to require additional subcuts to limit frost heave.

1. Strip unsuitable soils consisting of existing pavements, organic soils, debris-laden soils, existing structures (if encountered), and other unsuitable soils from the area within 3 feet of the surface of the proposed pavement grade.
2. Have a geotechnical representative observe the excavated subgrade to evaluate if additional subgrade improvements are necessary. Based on the results of the borings, the contractor should anticipate that soil correction excavations of the existing fill may be needed to provide a stable subgrade. Where needed, subcuts on the order of 2 to 3 feet should be sufficient in pavement areas at this site.
3. Slope subgrade soils to allow the removal of accumulating water.
4. Scarify, moisture condition, and surface compact the subgrade.
5. Place pavement engineered fill to grade and compact in accordance with Section C.3.d. to bottom of pavement and exterior slab section. See Section C.3.e. for additional considerations related to frost heave.
6. Proofroll the pavement or exterior slab subgrade as described in Section C.2.d.

C.4.b. Proofroll Observations

After preparing the subgrade as described in C.3.a for the Garden Avenue Area prior to placing the aggregate base, and after preparing the reclaimed material in the Falcon Woods areas, we recommend proofrolling the 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 during the proofroll, as determined by the geotechnical representative. Possible options for subgrade correction include moisture conditioning and recompaction, subcutting and replacement with soil or crushed aggregate, and/or geotextiles. We recommend performing a second proofroll after the aggregate base material is in place, and prior to placing bituminous pavements

C.4.c. Design Sections

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 similar soils anticipated at the pavement subgrade elevation, we recommend pavement design assume an average R-Value of 20 for both project sites. Note the contractor may need to perform limited removal of unsuitable or less suitable soils to achieve this value. Tables 10 and 11 provides minimum recommended pavement sections, based on the soils support and traffic loads. We understand that the City of Falcon Heights requires all residential roadways to be designed, at a minimum, as a 7-ton roadway.

Table 10. Recommended Minimum Bituminous Pavement Sections – Falcon Woods Area (ST-1 through ST-7)

Use	7-ton roadway	7-ton roadway with sand subbase
Minimum asphalt thickness (inches)	3 1/2	3 1/2
Minimum aggregate base thickness (inches)	8	6
Minimum granular subbase	---	12

Why are there two columns in Table 10 and 11?
 Table 4 called out sand subbase

Table 11. Recommended Minimum Bituminous Pavement Sections - Garden Avenue (ST-8 through ST-11)

Use	7-ton roadway	7-ton roadway with sand subbase
Minimum asphalt thickness (inches)	4	4
Minimum aggregate base thickness (inches)	8	6
Minimum granular subbase	---	12

C.4.d. Bituminous Pavement Materials

Appropriate mix designs are critical to the performance of flexible pavements. We can provide recommendations for pavement material selection during final pavement design.

C.4.e. Subgrade Drainage

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 where exterior grades promote drainage toward those edge areas. The contractor should place drainpipes in small trenches, extended below the aggregate base material. The draitile systems should be tied to the existing storm sewer system for disposal of water runoff.

C.4.f. Performance and Maintenance

We based the above pavement designs on a 20-year performance life for pavements. 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.

D. Procedures

D.1. Penetration Test Borings

We drilled the penetration test borings with a truck-mounted core and auger drill equipped with hollow-stem auger. We performed the borings in general accordance with ASTM D6151 taking penetration test samples at 2 1/2- or 5-foot intervals in general accordance with ASTM D1586. The boring logs show the actual sample intervals and corresponding depths. Pavement cores were also collected near each boring location.

We sealed penetration test boreholes in general accordance with MDH procedures.

D.2. Exploration Logs

D.2.a. Log of Boring Sheets

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

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

D.2.b. Geologic Origins

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

D.3. Material Classification and Testing

D.3.a. Visual and Manual Classification

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

D.3.b. Laboratory Testing

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

D.4. Groundwater Measurements

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

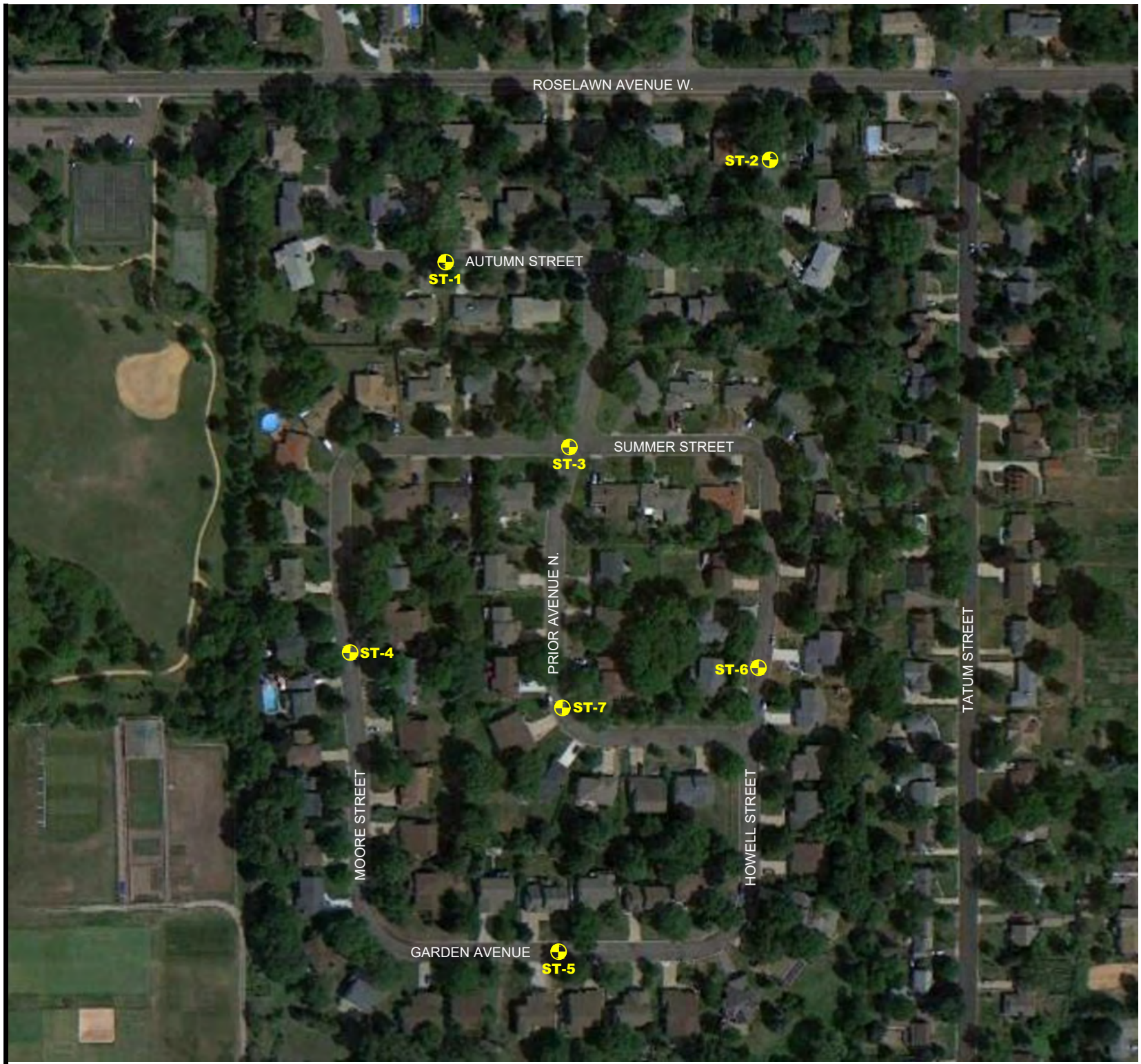
This report is for the exclusive use of the addressed parties. Without written approval, we assume no responsibility to other parties regarding this report. Our evaluation, analyses and recommendations may not be appropriate for other parties or projects.

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.

DRAFT

Appendix

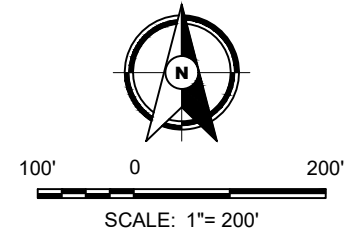


FALCON WOODS NEIGHBORHOOD



VICINITY MAP
NOT TO SCALE

 **DENOTES APPROXIMATE LOCATION OF STANDARD PENETRATION TEST BORING**



GARDEN AVENUE



Drawing Information

Project No:	B2203417
Drawing No:	B2203417
Drawn By:	JAG
Date Drawn:	4/27/22
Checked By:	RSJ
Last Modified:	5/16/22

Project Information

Falcon Heights 2023
Pavement Management

Garden Avenue and
the Falcon Woods
Neighborhood

Falcon Heights,
Minnesota

**Soil Boring
Location Sketch**

See Descriptive Terminology sheet for explanation of abbreviations

Project Number B2203417 Geotechnical Evaluation Falcon Heights 2023 Pavement Mgmt Garden Avenue Falcon Heights, Minnesota					BORING: ST-1		
					LOCATION: See attached sketch		
					NORTHING: 175582	EASTING: 551775	
DRILLER: C. McClain	LOGGED BY: R. Jett	START DATE: 05/06/22	END DATE: 05/06/22				
SURFACE ELEVATION: 986.9 ft	RIG: 7514	METHOD: 2 1/4" HSA	SURFACING: Bituminous	WEATHER: Sunny			
Elev./ Depth ft	Water Level	Description of Materials (Soil-ASTM D2488 or 2487; Rock-USACE EM 1110-1-2908)	Sample	Blows (N-Value) Recovery	q_p tsf	MC %	Tests or Remarks
986.1 0.8		PAVEMENT, 3 1/2 inches of bituminous over 5 inches of apparent aggregate base FILL: CLAYEY SAND (SC), trace Gravel, contains concrete debris, brown, moist		11-16-7-6 (23) 16"			
				2-4-3-5 (7) 18"		14	P200=44%
			5	1-4-4-5 (8) 15"			
980.6 6.3		END OF BORING Boring then backfilled with auger cuttings					Water not observed while drilling.
			10				
			15				

See Descriptive Terminology sheet for explanation of abbreviations

Project Number B2203417				BORING: ST-2	
Geotechnical Evaluation				LOCATION: See attached sketch	
Falcon Heights 2023 Pavement Mgmt				NORTHING: 175737 EASTING: 552265	
Garden Avenue				START DATE: 05/06/22 END DATE: 05/06/22	
Falcon Heights, Minnesota				SURFACING: Bituminous WEATHER: Sunny	
DRILLER: C. McClain		LOGGED BY: R. Jett			
SURFACE ELEVATION: 982.7 ft	RIG: 7514	METHOD: 2 1/4" HSA			

Elev./ Depth ft	Water Level	Description of Materials (Soil-ASTM D2488 or 2487; Rock-USACE EM 1110-1-2908)	Sample	Blows (N-Value) Recovery	q _p tsf	MC %	Tests or Remarks
981.8		PAVEMENT, 3 1/2 inches of bituminous over 7 inches of apparent aggregate base		13-6-5-2 (11) 17"			
0.9		FILL: SILTY SAND (SM), fine to medium-grained, trace Gravel, contains seams of Clay, dark brown to brown, moist		3-3-4-5 (7) 18"		13	
979.7		FILL: SILTY SAND (SM), fine to medium-grained, trace Gravel, contains seams of Clay, brown, moist		6-5-8-11 (13) 15"			
3.0		<i>Little Gravel at 5 feet</i>	5				
976.4		END OF BORING					Water not observed while drilling.
6.3		Boring then backfilled with auger cuttings					
			10				
			15				

See Descriptive Terminology sheet for explanation of abbreviations

Project Number B2203417					BORING: ST-4	
Geotechnical Evaluation					LOCATION: See attached sketch	
Falcon Heights 2023 Pavement Mgmt					NORTHING: 174993	EASTING: 551631
Garden Avenue					START DATE: 05/06/22	END DATE: 05/06/22
Falcon Heights, Minnesota					SURFACING: Bituminous	WEATHER: Sunny
DRILLER: C. McClain		LOGGED BY: R. Jett				
SURFACE ELEVATION: 984.9 ft	RIG: 7514	METHOD: 2 1/4" HSA				

Elev./ Depth ft	Water Level	Description of Materials (Soil-ASTM D2488 or 2487; Rock-USACE EM 1110-1-2908)	Sample	Blows (N-Value) Recovery	q_p tsf	MC %	Tests or Remarks
984.1		PAVEMENT, 4 1/2 inches of bituminous over 5 1/2 inches of apparent aggregate base		10-14-8-6 (22) 18"		8	P200=22%
0.8		FILL: SILTY SAND (SM), fine to coarse-grained, little Gravel, dark brown, moist					
982.9		FILL: SILTY SAND (SM), fine to medium-grained, trace Gravel, contains bituminous debris, dark brown, moist		10-12-18-18 (30) 6"			
2.0		FILL: SILTY SAND (SC-SM), fine to medium-grained, trace Gravel, contains seams of Clay, brown, moist		12-13-10-10 (23) 22"			
980.9			5				
4.0							
978.6		END OF BORING					Water not observed while drilling.
6.3		Boring then backfilled with auger cuttings					
			10				
			15				

See Descriptive Terminology sheet for explanation of abbreviations

Project Number B2203417				BORING: ST-5	
Geotechnical Evaluation				LOCATION: See attached sketch	
Falcon Heights 2023 Pavement Mgmt				NORTHING: 174541 EASTING: 551946	
Garden Avenue				START DATE: 05/06/22 END DATE: 05/06/22	
Falcon Heights, Minnesota				SURFACING: Bituminous WEATHER: Sunny	
DRILLER: C. McClain		LOGGED BY: R. Jett			
SURFACE ELEVATION: 984.0 ft	RIG: 7514	METHOD: 2 1/4" HSA			

Elev./ Depth ft	Water Level	Description of Materials (Soil-ASTM D2488 or 2487; Rock-USACE EM 1110-1-2908)	Sample	Blows (N-Value) Recovery	q _p tsf	MC %	Tests or Remarks
983.3 0.7		PAVEMENT, 3 inches of bituminous over 5 1/2 inches of apparent aggregate base		7-11-14-8 (25) 19"			
		FILL: SILTY SAND with GRAVEL (SM), fine to medium-grained, brown, moist		14-16-17-22 (33) 16"			
980.0 4.0		FILL: SILTY SAND (SM), fine to coarse-grained, trace Gravel, brown, moist	5	7-7-7-10 (14) 20"		6	
977.7 6.3		END OF BORING					Water not observed while drilling.
		Boring then backfilled with auger cuttings					
			10				
			15				

Project Number B2203417 Geotechnical Evaluation Falcon Heights 2023 Pavement Mgmt Garden Avenue Falcon Heights, Minnesota				BORING: ST-6	
				LOCATION: See attached sketch	
				NORTHING: 174970	EASTING: 552247
DRILLER: C. McClain	LOGGED BY: R. Jett		START DATE: 05/06/22	END DATE: 05/06/22	
SURFACE ELEVATION: 984.2 ft	RIG: 7514	METHOD: 2 1/4" HSA	SURFACING: Bituminous	WEATHER: Sunny	

Elev./Depth ft	Water Level	Description of Materials (Soil-ASTM D2488 or 2487; Rock-USACE EM 1110-1-2908)	Sample	Blows (N-Value) Recovery	q _p tsf	MC %	Tests or Remarks
983.5		PAVEMENT, 3 inches of bituminous over 5 1/2 inches of apparent aggregate base		6-12-21-14 (33) 20"			P200=7%
0.7		FILL: POORLY GRADED SAND with SILT and GRAVEL (SP-SM), fine to coarse-grained, brown, moist		10-26-14-11 (40) 18"		4	
				10-10-8-12 (18) 16"			
978.0		END OF BORING					Water not observed while drilling.
6.2		Boring then backfilled with auger cuttings					
			5				
			10				
			15				

See Descriptive Terminology sheet for explanation of abbreviations

Project Number B2203417				BORING: ST-10	
Geotechnical Evaluation				LOCATION: See attached sketch	
Falcon Heights 2023 Pavement Mgmt				NORTHING: 174585 EASTING: 557813	
Garden Avenue				START DATE: 05/06/22 END DATE: 05/06/22	
Falcon Heights, Minnesota				SURFACING: Bituminous WEATHER: Sunny	
DRILLER: C. McClain		LOGGED BY: R. Jett			
SURFACE ELEVATION: 948.7 ft	RIG: 7514	METHOD: 2 1/4" HSA			

Elev./ Depth ft	Water Level	Description of Materials (Soil-ASTM D2488 or 2487; Rock-USACE EM 1110-1-2908)	Sample	Blows (N-Value) Recovery	q _p tsf	MC %	Tests or Remarks
947.9		PAVEMENT, 4 inches of bituminous over 6 inches of apparent aggregate base		11-11-9-5 (20) 16"			
0.8		FILL: POORLY GRADED SAND with SILT (SP-SM), fine to coarse-grained, trace Gravel, contains seams of Clay, light brown, moist		8-9-7-9 (16) 18"		6	
944.7		FILL: POORLY GRADED SAND (SP), fine to coarse-grained, trace Gravel, light brown, moist	5	5-5-5-7 (10) 20"			
942.4		END OF BORING					Water not observed while drilling.
6.3		Boring then backfilled with auger cuttings					
			10				
			15				

See Descriptive Terminology sheet for explanation of abbreviations

Project Number B2203417				BORING: ST-11			
Geotechnical Evaluation				LOCATION: See attached sketch			
Falcon Heights 2023 Pavement Mgmt				NORTHING: 174599 EASTING: 558567			
Garden Avenue				START DATE: 05/06/22 END DATE: 05/06/22			
Falcon Heights, Minnesota				SURFACING: Bituminous WEATHER: Sunny			
DRILLER: C. McClain		LOGGED BY: R. Jett					
SURFACE ELEVATION: 943.8 ft	RIG: 7514	METHOD: 2 1/4" HSA					
Elev./ Depth ft	Water Level	Description of Materials (Soil-ASTM D2488 or 2487; Rock-USACE EM 1110-1-2908)	Sample	Blows (N-Value) Recovery	q _p tsf	MC %	Tests or Remarks
942.8 1.0		PAVEMENT, 7 inches of bituminous over 5 inches of apparent aggregate base		2-18-10-6 (28) 16"		8	OC=2%
939.8 4.0		FILL: SILTY SAND (SM), fine to coarse-grained, slightly organic, trace Gravel, bituminous, brown to dark brown, moist		5-5-4-10 (9) 20"			
937.4 6.4		FILL: POORLY GRADED SAND with SILT (SP-SM), fine to medium-grained, trace Gravel, contains seams of Silt, light brown, moist	5	5-6-5-6 (11) 22"		7	P200=9%
		END OF BORING					Water not observed while drilling.
		Boring then backfilled with auger cuttings					
			10				
			15				



BRAUN
INTERTEC

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

**Falcon Heights 2023 Pavement
Management**

B2203417

Core Photo Log

ST-1



<p>BRAUN INTERTEC</p>	<p>Falcon Heights 2023 Pavement Management</p>	<p>Core Photo Log</p>
<p>11001 Hampshire Avenue S Minneapolis, MN 55438 952.995.2000 Braunintertec.com</p>	<p>B2203417</p>	<p>ST-2</p>



BRAUN
INTERTEC

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

**Falcon Heights 2023 Pavement
Management**

B2203417

Core Photo Log

ST-3



BRAUN
INTERTEC

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

**Falcon Heights 2023 Pavement
Management**

B2203417

Core Photo Log

ST-4



BRAUN INTERTEC	Falcon Heights 2023 Pavement Management	Core Photo Log
11001 Hampshire Avenue S Minneapolis, MN 55438 952.995.2000 Braunintertec.com	B2203417	ST-5



<p>BRAUN INTERTEC</p>	<p>Falcon Heights 2023 Pavement Management</p>	<p>Core Photo Log</p>
<p>11001 Hampshire Avenue S Minneapolis, MN 55438 952.995.2000 Braunintertec.com</p>	<p>B2203417</p>	<p>ST-6</p>



<p>BRAUN INTERTEC</p>	<p>Falcon Heights 2023 Pavement Management</p>	<p>Core Photo Log</p>
<p>11001 Hampshire Avenue S Minneapolis, MN 55438 952.995.2000 Braunintertec.com</p>	<p>B2203417</p>	<p>ST-7</p>



BRAUN
INTERTEC

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

**Falcon Heights 2023 Pavement
Management**

B2203417

Core Photo Log

ST-8



BRAUN
INTERTEC

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

**Falcon Heights 2023 Pavement
Management**

B2203417

Core Photo Log

ST-9



<p>BRAUN INTERTEC</p>	<p>Falcon Heights 2023 Pavement Management</p>	<p>Core Photo Log</p>
<p>11001 Hampshire Avenue S Minneapolis, MN 55438 952.995.2000 Braunintertec.com</p>	<p>B2203417</p>	<p>ST-10</p>



BRAUN
INTERTEC

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

**Falcon Heights 2023 Pavement
Management**

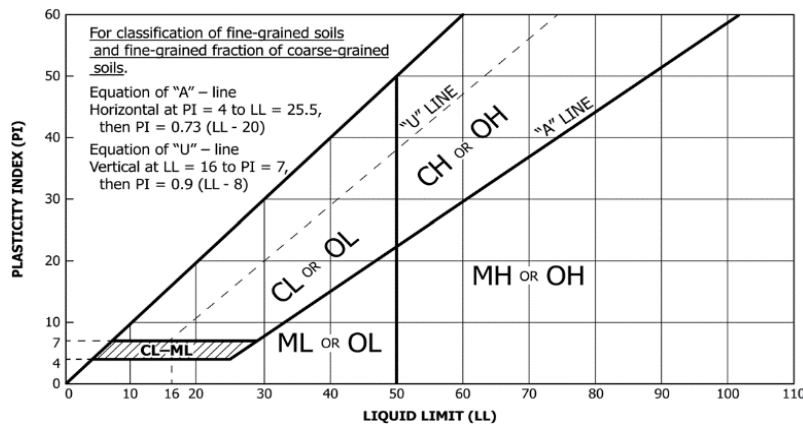
B2203417

Core Photo Log

ST-11

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

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



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

Particle Size Identification

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

Relative Proportions^{L-M}

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

Inclusion Thicknesses

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

Apparent Relative Density of Cohesionless Soils

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

Consistency of Cohesive Soils Blows Per Foot Approximate Unconfined Compressive Strength

Very soft.....	0 to 1 BPF.....	< 0.25 tsf
Soft.....	2 to 4 BPF.....	0.25 to 0.5 tsf
Medium.....	5 to 8 BPF.....	0.5 to 1 tsf
Stiff.....	9 to 15 BPF.....	1 to 2 tsf
Very Stiff.....	16 to 30 BPF.....	2 to 4 tsf
Hard.....	over 30 BPF.....	> 4 tsf

Moisture Content:

- Dry:** Absence of moisture, dusty, dry to the touch.
- Moist:** Damp but no visible water.
- Wet:** Visible free water, usually soil is below water table.

Drilling Notes:

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

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

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

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

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

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

Sample Symbols

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

**CITY OF FALCON HEIGHTS
COUNCIL RESOLUTION**

October 26, 2022

No. 22-50

**RESOLUTION RECEIVING THE 2023 PAVEMENT MANAGEMENT PROJECT
FEASIBILITY REPORT AND ORDERING PUBLIC HEARING FOR IMPROVEMENT**

WHEREAS, pursuant to resolutions of the Council adopted October 26, 2022, a report has been prepared by the City Engineer with reference to the improvement of the following streets:

- Holton Street, Larpenteur Avenue to Roselawn Avenue
- Albert Street, Ruggles Street to Roselawn Avenue
- Sheldon Street, Ruggles Street to Roselawn Avenue
- Ruggles Street, Holton Street to Hamline Avenue
- Garden Avenue, East Snelling Service Drive to Hamline Avenue

and this report was received by the Council on October 26, 2022, and

WHEREAS, the report provides information regarding whether the proposed project is necessary, cost effective, and feasible; whether it should best be made as proposed or in connection with some other improvement; the estimated cost of the improvement as recommended; and a description of the methodology used to calculate individual assessments for affected parcels.

NOW, THEREFORE, BE IT RESOLVED by the Council of the City of Falcon Heights, Minnesota:

1. The council will consider the improvement of such streets in accordance with the report and the assessment of abutting property for all or a portion of the cost of the improvement pursuant to Minnesota Statutes, Chapter 429 at an estimated total cost of the improvement of \$1,688,000.
 2. A public hearing shall be held on such proposed improvement on November 9, 2022, in the council chambers of City Hall at 7:00 p.m. and the City Administrator shall give mailed and published notice of such hearing and improvement, as required by law.
-

Moved by:

Approved by: _____

Randy Gustafson

Mayor

October 26, 2022

GUSTAFSON

_____ In Favor

Attested by: _____

LEEHY

Jack Linehan

MEYER

_____ Against

City Administrator

WEHYEE

October 26, 2022

BLANK PAGE

CITY OF FALCON HEIGHTS
Regular Meeting of the City Council
City Hall
2077 West Larpenteur Avenue
MINUTES
October 12, 2022 at 7:00 P.M.

- A. CALL TO ORDER: 7:02 p.m.
- B. ROLL CALL: ANDREWS _A_ GUSTAFSON _X_ LEEHY _X_
MEYER __ WEHYEE _X_

STAFF PRESENT: LINEHAN _X_

- C. APPROVAL OF AGENDA

Leehy motions for Approval of the
Agenda; approved 3-0

- D. PRESENTATION:
1. Recognition of Kay Andrews' Service

Mayor Gustafson states that Council Member Kay Andrews has sent a letter of resignation to the City and resigned from the City Council effective today, October 12th, 2022. In addition, Kay Andrews became a resident of the City of Roseville after 31 years of living in Falcon Heights. The City Council has a resolution honoring Kay Andrews' service to Falcon Heights. The proclamation states **WHEREAS**, Council Member Kay Andrews served as President and CEO of Northeast Youth and Family Services, collaborating with various agencies, including 15 municipalities, 3 school districts and 5 police departments to provide community-based support services and mental health counseling to the northeastern suburbs of Ramsey County. Council Member Kay Andrews provided 33 years of service to NYFS and the community, and, in recognition of this, a facility opened in 2021 was named the Kay Andrews Discovery Center; and **WHEREAS**, Council Member Kay Andrews has resided in Falcon Heights since 1992; and **WHEREAS**, Council Member Kay Andrews has served on the Planning Commission, the Human Rights Commission, and the Inclusion and Policing Task Force, with the desire to create a strengthened, safe, inclusive and more collaborative community where all people are *welcomed, included and safe*; and **WHEREAS**, Kay Andrews was appointed to the Falcon Heights City Council and took an Oath of Office on January 8, 2020; and **WHEREAS**, Council Member Kay Andrews tendered her resignation from the Falcon Heights City Council effective October 12, 2022; and **WHEREAS**, Council Member Kay Andrews has honorably dedicated herself to serving her community and the residents of Falcon Heights and is a bright example of public service. **NOW THEREFORE BE IT RESOLVED** that I, Mayor, Randall C. Gustafson, on behalf of the City Council of the City of Falcon Heights, Minnesota, do hereby honor and recognize Kay Andrews for her contributions and service to the City of Falcon Heights as a councilmember. May this proclamation be provided to Kay Andrews in recognition for her years of service to the community.

Council Member Wehyee states it has been a pleasure working with Kay Andrews. Kay has always presented what I think is a balanced perspective on many of the issues we have considered on City Council and has been a great addition to the team. It was a pleasure starting my political career alongside of her.

Council Member Leehy states it has been a pleasure to know Kay Andrews, as a neighbor, friend and colleague in serving young people, being that they've done similar work, and to have heard of all of her hard work, which has impacted many lives. Then, stepping forward to be a part of the inclusion and policing task force that we worked on together and then on City Council. Thank you so much for being the loving and wise person you are and for your dedication to Falcon Heights. You will be deeply missed, and we wish you the best.

Mayor Gustafson thanks Kay very much and states it has been a pleasure. Your service to the citizens and the City of Falcon Heights during your 30 years as a resident and an active one is appreciated.

Council Members Leehy and Wehyee
motion to Recognize Kay Andrews' Service;
approved 3-0

E. APPROVAL OF MINUTES:

1. September 28, 2022 City Council Regular Meeting Minutes
2. October 5, 2022 City Council Workshop Meeting Minutes

Council Member Wehyee motions for Approval
of Minutes; approved 3-0

F. PUBLIC HEARINGS:

G. CONSENT AGENDA:

1. General Disbursements through: 10/6/22 \$32,412.76
Payroll through: 9/30/22 \$20,711.11
Wire Payments through: 9/30/22 \$14,013.33
2. Accept the Resignation of Kay Andrews from the City Council and Declare a
Vacancy
3. Approve Two-Year Extension Agreement with Tennis for Recycling Services

Council Member Leehy motions to Approve the
Consent Agenda; approved 3-0

H. POLICY ITEMS:

I. INFORMATION/ANNOUNCEMENTS:

Council Member Leehy requests that when Jack Linehan, the City Administrator, gives his updates, that he includes clarification for those concerned about a passageway on Ruggles.

Council Member Wehyee states that the Planning Commission will meet on October 25th. The Planning Commission has not met since September.

Mayor Gustafson states that the Community Engagement Commission will be meeting Monday, October 17th, at 6:30 p.m. in the City Hall Chambers. The Commission will discuss Human Rights Day and update the new resident packet. The Park and Recreation Commission will have two new members. The City is still looking for someone from the community to step up for the St. Paul Water Board. More information on the St. Paul Water Board is on the City website. Or, give the Mayor a call to walk you through the process.

Council Member Leehy asks if there is a deadline for the St. Paul Water Commission.

Linehan states that Friday, October 14th is the deadline. The City has not received any applicants for the Commission.

Council Member Leehy asks whether the notice describes the requirements for serving on that Commission.

Linehan states that the description outlines the requirements. In addition, the St. Paul Water Commission meets monthly in person. The term ends December 31st, 2023, so it is about a 14-month commitment.

Linehan states:

- **Public Works Street Sweeping**
 - Public Works completed street sweeping of all Falcon Heights streets last week. Street sweeping will continue periodically throughout the fall until snow falls.
 - A reminder to residents: please do not rake leaves in to the street. The street sweeper cannot take that additional volume of leaves, and it is an ordinance violation.
 - Residents did a great job last week keeping leaves out of the street, which made the pass through the community smoother and without equipment clogging
- **iWorQ Permitting System**
 - We are excited to announce the launch of our iWorQ public portal.
 - Residents and contractors can now apply for a wide range of permits entirely online, from fence permits to mechanical permits.
 - Residents can also search active permits and see a full list of open permits. That is public information. If residents were curious if there were active permits on a home they wished to purchase, they could see that. Or, if they saw a contractor working on a roof and were curious if they had a permit for it, they could look it up and check as well.
 - This new software will save staff time and improve service delivery to residents at a minimal cost. A review is still required and the timeline is two days to two weeks; we try to stay on the low end of that.
 - To view the iWorQ public portal and apply for permits, visit the www.falconheights.org, click on “I Want to” -> “Apply For” -> Permits. A button on the permitting page will take you to the iWorQ portal.
- **Falcon Woods 2025 PMP Neighborhood Meeting**
 - Wednesday, October 19th at 6:30 PM in Council Chambers

- The meeting will discuss the planned reconstruction of roads in Falcon Woods occurring in 2025 to give residents an early overview.
- **Ruggles Pathway Update**
 - The city has been contacted by neighbors in the Northeast Quadrant concerned about the proposed Ruggles Pathway.
 - I want to clarify that no decision has been made, and Engineering is including various options in their feasibility report.
 - The Ruggles Pathway has long been identified by the City as a site that needs to be brought up to code to meet the requirements of the Americans with Disabilities Act. The current “goat path” does not meet federal requirements for wheel chair accessibility.
 - The next step in the process will be on Wednesday, October 26th at 7PM, when Engineering presents the 2023 PMP Feasibility Report to the City Council.
 - If the Council accepts the report, that will trigger a public hearing held on Wednesday, November 9th at 7PM. Notice of the public hearing will be sent to all residents impacted by the 2023 PMP by mail.
 - Residents are encouraged to attend the November 9th Public Hearing, as afterwards the City Council will make a final recommendation on the entirety of the 2023 PMP, including the Ruggles Pathway.
- **Amber Union Update**
 - Certificate of Occupancy was issued for the main building on September 30th.
 - Some residents began moving in on October 1st.
 - The western annex building is aiming to have a Certificate of Occupancy issued at the end of October.
 - A ribbon cutting and open house for neighbors is being planned to coincide with the opening on the annex building in late October/early November. Dates and formal invites are still being worked out with the developer and property management company.
- **Council Vacancy**
 - Following tonight’s declaration of vacancy, recruitment for Kay Andrews’ replacement for her term expiring December 31st, 2023 will begin on Thursday, October 13th. Applications will be made available on our website and in-person at City Hall. Applications will close on Wednesday, October 26th. The replacement process will include interviews by the Council and potentially a citizen panel, following both past practices and Minnesota State Statute.

J. **COMMUNITY FORUM:**

Please limit comments to 3 minutes per person. Items brought before the Council will be referred for consideration. Council may ask questions for clarification, but no council action or discussion will be held on these items.

K. **ADJOURNMENT:** 7:22 p.m.

Motion by Council Member Leehy to adjourn the City Council Meeting; approved 3-0

Dated this 12th day of October, 2022

Jack Linehan, City Administrator

Randall C. Gustafson, Mayor

BLANK PAGE



REQUEST FOR COUNCIL ACTION

Meeting Date	October 26, 2022
Agenda Item	Consent G1
Attachment	General Disbursements, Payroll, and Wire Payments
Submitted By	Roland Olson, Finance Director

Item	General Disbursements, Payroll and Wire Payments
Description	General Disbursements through: 10/20/22 \$222,924.42 Payroll through: 10/15/22 \$23,798.72 Wire Payments through: 10/15/22 \$16,067.73
Budget Impact	The general disbursements, payroll and wire payments are consistent with the budget.
Attachment(s)	<ul style="list-style-type: none"> • General Disbursements, Payroll and Wire Payments
Action(s) Requested	Staff recommends that the Falcon Heights City Council approve general disbursements, payroll and wire payments.

PACKET: 02617 October 12 Payables
 VENDOR SET: 01 City of Falcon Heights
 SEQUENCE : ALPHABETIC
 DUE TO/FROM ACCOUNTS SUPPRESSED

-----ID-----			GROSS	P.O. #		
POST DATE	BANK CODE	-----DESCRIPTION-----	DISCOUNT	G/L ACCOUNT	-----ACCOUNT NAME-----	DISTRIBUTION
01-00300 ABLE HOSE & RUBBER						
I-228972-001		ABLE HOSE & RUBBER	26.49			
10/12/2022	APBNK	DUE: 10/12/2022 DISC: 10/12/2022 Hose Attachments		1099: N 101 4131-70110-000	SUPPLIES	26.49
=== VENDOR TOTALS ===			26.49			
01-00161 ANCHOR PAPER COMPANY						
I-10700989-00		ANCHOR PAPER COMPANY	412.71			
10/12/2022	APBNK	DUE: 10/12/2022 DISC: 10/12/2022 Roll Towels & Trash Can Liners		1099: N 101 4131-70110-000	SUPPLIES	412.71
=== VENDOR TOTALS ===			412.71			
01-05867 ASPHALT DRIVEWAY, LLC						
I-202210128301		ASPHALT DRIVEWAY, LLC	40.00			
10/12/2022	APBNK	DUE: 10/12/2022 DISC: 10/12/2022 Refund of Driveway Permit		1099: N 101 32216-000	DRIVEWAYS/FENCES	40.00
=== VENDOR TOTALS ===			40.00			
01-00295 AVR, INC						
I-265784		AVR, INC	771.25			
10/12/2022	APBNK	DUE: 10/12/2022 DISC: 10/12/2022 Sidewalk Repair - Hamline & CA		1099: N 419 4419-92005-000	SIDEWALK IMPROVEMENTS	771.25
=== VENDOR TOTALS ===			771.25			
01-00875 BHE COMMUNITY SOLAR, LLC						
I-202210128296		BHE COMMUNITY SOLAR, LLC	1,347.03			
10/12/2022	APBNK	DUE: 10/12/2022 DISC: 10/12/2022 Solar Garden Elect August		1099: N 101 4131-85025-000	SOLAR ELECTRIC	1,347.03
=== VENDOR TOTALS ===			1,347.03			
01-03001 CAMPBELL KNUTSON						
I-299		CAMPBELL KNUTSON	1,654.50			
10/12/2022	APBNK	DUE: 10/12/2022 DISC: 10/12/2022 General Matters Legal		1099: Y 101 4114-80200-000	LEGAL FEES	1,654.50
=== VENDOR TOTALS ===			1,654.50			

PACKET: 02617 October 12 Payables
 VENDOR SET: 01 City of Falcon Heights
 SEQUENCE : ALPHABETIC
 DUE TO/FROM ACCOUNTS SUPPRESSED

-----ID-----			GROSS	P.O. #		
POST DATE	BANK CODE	-----DESCRIPTION-----	DISCOUNT	G/L ACCOUNT	-----ACCOUNT NAME-----	DISTRIBUTION
01-03110	CENTURY LINK					
I-202210128297		CENTURY LINK	73.01			
10/12/2022	APBNK	DUE: 10/12/2022 DISC: 10/12/2022		1099: N		
		Landlines SS		601 4601-85011-000	TELEPHONE - LANDLINE	73.01
		=== VENDOR TOTALS ===	73.01			
01-04570	JOSEPH, KATRINA E.					
I-127		JOSEPH, KATRINA E.	5,000.00			
10/12/2022	APBNK	DUE: 10/12/2022 DISC: 10/12/2022		1099: Y		
		Prosecutions Aug & Sept		101 4123-80200-000	LEGAL FEES	5,000.00
		=== VENDOR TOTALS ===	5,000.00			
01-05440	LOFFLER COMPANIES, INC					
I-4158511		LOFFLER COMPANIES, INC	158.00			
10/12/2022	APBNK	DUE: 10/12/2022 DISC: 10/12/2022		1099: N		
		Copier		101 4112-87000-000	REPAIR OFFICE EQUIPMENT	158.00
		=== VENDOR TOTALS ===	158.00			
01-05665	METROPOLITAN COUNCIL					
I-1147189		METROPOLITAN COUNCIL	40,389.49			
10/12/2022	APBNK	DUE: 10/12/2022 DISC: 10/12/2022		1099: N		
		Waste Water Services November		601 4601-85060-000	METRO SEWER CHARGES	40,389.49
		=== VENDOR TOTALS ===	40,389.49			
01-05731	MN DEPARTMENT OF LABOR INDUSTR					
I-SEPTEMBER123015202		MN DEPARTMENT OF LABOR INDUST	1,994.07			
10/12/2022	APBNK	DUE: 10/12/2022 DISC: 10/12/2022		1099: N		
		3RD QUARTER SURCHARGES		101 20801-000	DUE TO OTHER GOVERNMENTS	1,994.07
		=== VENDOR TOTALS ===	1,994.07			
01-05273	MN PUBLIC EMPLOYEES INSURANCE					
I-1227594		MN PUBLIC EMPLOYEES INSURANCE	5,986.04			
10/12/2022	APBNK	DUE: 10/12/2022 DISC: 10/12/2022		1099: N		
		Health Insurance Nov		101 4112-89000-000	MISCELLANEOUS	5,986.04
		=== VENDOR TOTALS ===	5,986.04			

PACKET: 02617 October 12 Payables
 VENDOR SET: 01 City of Falcon Heights
 SEQUENCE : ALPHABETIC
 DUE TO/FROM ACCOUNTS SUPPRESSED

-----ID-----			GROSS	P.O. #		
POST DATE	BANK CODE	-----DESCRIPTION-----	DISCOUNT	G/L ACCOUNT	-----ACCOUNT NAME-----	DISTRIBUTION
01-06024 ON SITE SANITATION						
I-1414090		ON SITE SANITATION	164.00			
10/12/2022	APBNK	DUE: 10/12/2022 DISC: 10/12/2022 Portable Toilets/Sanitizers		1099: N 601 4601-85080-000	PORTABLE TOILET PARKS	164.00
I-1414091		ON SITE SANITATION	165.00			
10/12/2022	APBNK	DUE: 10/12/2022 DISC: 10/12/2022 Portable Toilets/Sanitizers		1099: N 601 4601-85080-000	PORTABLE TOILET PARKS	165.00
=== VENDOR TOTALS ===			329.00			
01-06184 RAMSEY COUNTY - POLICE AND 911						
I-SHREL-002098		RAMSEY COUNTY - POLICE AND 91	95,560.97			
10/12/2022	APBNK	DUE: 10/12/2022 DISC: 10/12/2022 Law Enforcement Services Oct		1099: N 101 4122-81000-000	POLICE SERVICES	95,560.97
=== VENDOR TOTALS ===			95,560.97			
01-05812 SORENSEN CONSULTING						
I-COFH.2.22		SORENSEN CONSULTING	900.00			
10/12/2022	APBNK	DUE: 10/12/2022 DISC: 10/12/2022 Selection Assessments		1099: N 101 4112-80330-000	CONSULTANT	900.00
=== VENDOR TOTALS ===			900.00			
01-05866 SWANSON, ERIC						
I-202210128298		SWANSON, ERIC	38.00			
10/12/2022	APBNK	DUE: 10/12/2022 DISC: 10/12/2022 Refund of Duplicate Payment Refund of State Surcharge		1099: N 101 32230-000 101 20801-000	PLUMBING PERMITS DUE TO OTHER GOVERNMENTS	37.00 1.00
=== VENDOR TOTALS ===			38.00			
01-06930 U.S. POSTMASTER						
I-202210128299		U.S. POSTMASTER	600.00			
10/12/2022	APBNK	DUE: 10/12/2022 DISC: 10/12/2022 Stamps Rolls Forever 10 Rolls		1099: N 101 4112-70500-000	POSTAGE	600.00
=== VENDOR TOTALS ===			600.00			

PACKET: 02617 October 12 Payables
 VENDOR SET: 01 City of Falcon Heights
 SEQUENCE : ALPHABETIC
 DUE TO/FROM ACCOUNTS SUPPRESSED

-----ID-----			GROSS	P.O. #		
POST DATE	BANK CODE	-----DESCRIPTION-----	DISCOUNT	G/L ACCOUNT	-----ACCOUNT NAME-----	DISTRIBUTION
<hr/>						
01-05752	UNIVERSAL TRUCK SERVICE LLC					
I-72840		UNIVERSAL TRUCK SERVICE LLC	203.94			
10/12/2022	APBNK	DUE: 10/12/2022 DISC: 10/12/2022		1099: N		
		Annual Sweeper Inspection		602 4602-87101-000	ANNUAL SWEEPER INSPECTIO	162.90
		Replace Marker Bulb		602 4602-83025-000	SWEEPER PARTS/SUPPLIES	41.04
		=== VENDOR TOTALS ===	203.94			
<hr/>						
01-05865	VILLANUEVA, CRUZ					
I-202210128300		VILLANUEVA, CRUZ	303.39			
10/12/2022	APBNK	DUE: 10/12/2022 DISC: 10/12/2022		1099: N		
		Refund of Duplicate Payment		101 32210-000	BUILDING PERMITS	295.00
		Refund of State Surcharge		101 20801-000	DUE TO OTHER GOVERNMENTS	8.39
		=== VENDOR TOTALS ===	303.39			
<hr/>						
01-05870	XCEL ENERGY					
I-202210128302		XCEL ENERGY	2,857.54			
10/12/2022	APBNK	DUE: 10/12/2022 DISC: 10/12/2022		1099: N		
		Elect		101 4121-85020-000	ELECTRIC	38.37
		Gas		101 4131-85030-000	NATURAL GAS	83.80
		Elect		101 4141-85020-000	ELECTRIC/GAS	35.66
		Elect		209 4209-85020-000	STREET LIGHTING POWER	2,526.31
		Elect		209 4209-85020-000	STREET LIGHTING POWER	17.10
		Elect		209 4209-85020-000	STREET LIGHTING POWER	20.32
		Elect		209 4209-85020-000	STREET LIGHTING POWER	18.60
		Elect		209 4209-85020-000	STREET LIGHTING POWER	82.00
		Elect		209 4209-85020-000	STREET LIGHTING POWER	18.28
		Elect		209 4209-85020-000	STREET LIGHTING POWER	17.10
		=== VENDOR TOTALS ===	2,857.54			
<hr/>						
01-05689	ZACK'S INC					
I-35823		ZACK'S INC	441.48			
10/12/2022	APBNK	DUE: 10/12/2022 DISC: 10/12/2022		1099: N		
		Cleaner & Degreaser and Brooms		101 4131-70110-000	SUPPLIES	441.48
		=== VENDOR TOTALS ===	441.48			
		=== PACKET TOTALS ===	159,086.91			

-----ID-----			GROSS	P.O. #		
POST DATE	BANK CODE	-----DESCRIPTION-----	DISCOUNT	G/L ACCOUNT	-----ACCOUNT NAME-----	DISTRIBUTION
01-03123		CINTAS CORPORATION				
I-4134741564		CINTAS CORPORATION	61.69			
10/19/2022	APBNK	DUE: 10/19/2022 DISC: 10/19/2022		1099: N		
		Floor Mats Svc		101 4131-87010-000	CITY HALL MAINTENANCE	61.69
		=== VENDOR TOTALS ===	61.69			
01-03117		CITY OF LITTLE CANADA				
I-202210198305		CITY OF LITTLE CANADA	43,228.79			
10/19/2022	APBNK	DUE: 10/19/2022 DISC: 10/19/2022		1099: N		
		Building Inspections JUL-SEPT		101 4117-81210-000	BUILDING INSPECTORS	37,939.79
		Mechanical Inspections JUL-SEP		101 4117-81220-000	MECHANICAL INSPECTORS	3,535.00
		Plumbing Inspections JUL-SEP		101 4117-81230-000	PLUMBING INSPECTORS	1,754.00
		=== VENDOR TOTALS ===	43,228.79			
01-05868		EXCEL ROOFING				
I-202210198304		EXCEL ROOFING	166.25			
10/19/2022	APBNK	DUE: 10/19/2022 DISC: 10/19/2022		1099: N		
		Refund of Building Permit Fee		101 32210-000	BUILDING PERMITS	166.25
		=== VENDOR TOTALS ===	166.25			
01-05171		FRA DOR INC				
I-2209173		FRA DOR INC	105.23			
10/19/2022	APBNK	DUE: 10/19/2022 DISC: 10/19/2022		1099: N		
		Black Dirt Sidewalks		419 4419-92005-000	SIDEWALK IMPROVEMENTS	105.23
		=== VENDOR TOTALS ===	105.23			
01-05549		MELANIE LEEHY				
I-202210198306		MELANIE LEEHY	8.23			
10/19/2022	APBNK	DUE: 10/19/2022 DISC: 10/19/2022		1099: N		
		Reimburse Office Supplies		101 4111-70100-000	SUPPLIES	8.23
		=== VENDOR TOTALS ===	8.23			
01-05843		MN NCPERS LIFE INSURANCE				
I-458800112022		MN NCPERS LIFE INSURANCE	48.00			
10/19/2022	APBNK	DUE: 10/19/2022 DISC: 10/19/2022		1099: N		
		2022 Life Insurance Sept		101 21709-000	OTHER PAYABLE	24.64
		2022 Life Insurance Sept		204 21709-000	OTHER PAYABLE	1.60
		2022 Life Insurance Sept		601 21709-000	OTHER PAYABLE	15.52
		2022 Life Insurance Sept		602 21709-000	OTHER PAYABLE	6.24
		=== VENDOR TOTALS ===	48.00			

PACKET: 02619 October 19 Payables
 VENDOR SET: 01 City of Falcon Heights
 SEQUENCE : ALPHABETIC
 DUE TO/FROM ACCOUNTS SUPPRESSED

-----ID-----			GROSS	P.O. #		
POST DATE	BANK CODE	-----DESCRIPTION-----	DISCOUNT	G/L ACCOUNT	-----ACCOUNT NAME-----	DISTRIBUTION
01-06301	SAMS CLUB MC/SYNCB					
I-202210198303	SAMS CLUB MC/SYNCB		1,740.87			
10/19/2022	APBNK	DUE: 10/19/2022 DISC: 10/19/2022		1099: N		
		Toner		101 4112-70100-000	SUPPLIES	121.53
		Pioneer Press Paper		101 4131-70110-000	SUPPLIES	22.60
		Zoom Virtual		101 4116-85040-000	VIRTUAL COMMUNICATIONS	220.11
		Air Filter		101 4131-70110-000	SUPPLIES	18.64
		City Clothing		101 4112-70100-000	SUPPLIES	164.65
		Binders, Paper clips & Sharpen		101 4112-70100-000	SUPPLIES	79.55
		Sticky Notes		101 4112-70100-000	SUPPLIES	6.73
		Clothing		101 4132-77000-000	CLOTHING	719.90
		Name Tag		101 4112-70100-000	SUPPLIES	28.94
		Grip Steps & Mounting Kit		101 4132-70120-000	SUPPLIES	358.22
		=== VENDOR TOTALS ===	1,740.87			
		=== PACKET TOTALS ===	45,359.06			

PACKET: 02621 OCT 20 PAYABLES

VENDOR SET: 01 City of Falcon Heights

SEQUENCE : ALPHABETIC

DUE TO/FROM ACCOUNTS SUPPRESSED

-----ID-----			GROSS	P.O. #		
POST DATE	BANK CODE	-----DESCRIPTION-----	DISCOUNT	G/L ACCOUNT	-----ACCOUNT NAME-----	DISTRIBUTION
=====						
01-00265		AMERICAN ENVIRONMENTAL LLC				
I-6689		TELEVISIONING/CLEANING STORM DRA	17,710.00			
10/20/2022	APBNK	DUE: 10/20/2022 DISC: 10/20/2022		1099: N		
		TELEVISIONING/CLEANING STORM DRAI		602 4602-87100-000	TELEVISIONING/CLEANING	17,710.00
		=== VENDOR TOTALS ===	17,710.00			
=====						
01-00255		AMERICAN OFFICE PRODUCTS				
I-6689		BUSINESS CARDS	249.11			
10/20/2022	APBNK	DUE: 10/20/2022 DISC: 10/20/2022		1099: N		
		BUSINESS CARDS		101 4112-70100-000	SUPPLIES	249.11
		=== VENDOR TOTALS ===	249.11			
=====						
01-03110		CENTURY LINK				
I-202210208307		LAND LINE PARKS	128.50			
10/20/2022	APBNK	DUE: 10/20/2022 DISC: 10/20/2022		1099: N		
		LAND LINE PARKS		101 4141-85011-000	TELEPHONE - LANDLINE	128.50
		=== VENDOR TOTALS ===	128.50			
=====						
01-03122		CITY OF ST PAUL				
I-IN51131		ASHPHALT	390.84			
10/20/2022	APBNK	DUE: 10/20/2022 DISC: 10/20/2022		1099: N		
		ASHPHALT		101 4132-75000-000	BITUMINOUS PATCHING	390.84
		=== VENDOR TOTALS ===	390.84			
		=== PACKET TOTALS ===	18,478.45			

EMP #	NAME	AMOUNT
C 006	JACK LINEHAN	3,141.07
01-1026	BRENNAN J SORENSEN	1,466.17
01-1027	KELLY A NELSON	1,839.00
01-1136	ROLAND O OLSON	3,056.85
01-2268	MATTHEW CHERNUGAL	930.47
01-1030	TIMOTHY J PITTMAN	2,368.47
01-1033	DAVE TRETSEVEN	1,861.53
01-1143	COLIN B CALLAHAN	2,061.30

TOTAL PRINTED: 8 16,724.86

10-06-2022 12:55 PM
 PAYROLL NO: 01 City of Falcon Heights

PAYROLL CHECK REGISTER

PAGE: 1
 PAYROLL DATE: 10/06/2022

EMP NO	EMPLOYEE NAME	TYPE	CHECK DATE	CHECK AMOUNT	CHECK NO.
10	CHERNE, CHRISTOPHER D	R	10/06/2022	776.07	091730
1162	LANDBERG, ALYSSA	R	10/06/2022	768.30	091731
1018	MORETTO, PAUL A	R	10/06/2022	5,529.49	091732

10-06-2022 12:55 PM
 PAYROLL NO: 01 City of Falcon Heights

PAYROLL CHECK REGISTER

PAGE: 2
 PAYROLL DATE: 10/06/2022

*** REGISTER TOTALS ***

REGULAR CHECKS:	3	7,073.86
DIRECT DEPOSIT REGULAR CHECKS:	8	16,724.86
MANUAL CHECKS:		
PRINTED MANUAL CHECKS:		
DIRECT DEPOSIT MANUAL CHECKS:		
VOIDED CHECKS:		
NON CHECKS:		
TOTAL CHECKS:	11	23,798.72

*** NO ERRORS FOUND ***

** END OF REPORT **

WIRE PAYMENTS

Oct 15 payroll

Fed With	9,185.81
St With	1,571.35
Pera	3,950.73
ICMA	1,333.34
Child supp	<u>26.50</u>

16,067.73

BLANK PAGE



REQUEST FOR COUNCIL ACTION

Meeting Date	October 26, 2022
Agenda Item	Consent G2
Attachment	N/A
Submitted By	Kelly Nelson Assistant to the City Administrator

Item	Approval of City License(s)
Description	<p>The following individuals/entities have applied for a <u>Holiday Tree Sales License</u> for 2022. Staff have received the necessary documents for licensure.</p> <ol style="list-style-type: none"> 1. Falcon Heights-Lauderdale Lions Club <p>The following individuals/entities have applied for a <u>Bus Bench License</u> for 2023. Staff have received the necessary documents for licensure.</p> <ol style="list-style-type: none"> 1. United States Bench Corporation <p>The following individuals/entities have applied for a <u>Home Occupation License</u> for 2023. Staff have received the necessary documents for licensure.</p> <ol style="list-style-type: none"> 1. Bouquets in Bloom 2. Mercarik Incorporated 3. Weyandt Mediation, PLLC <p>The following individuals/entities have applied for a <u>Multifamily Rental Dwelling License</u> for 2023. Staff have received the necessary documents for licensure.</p> <ol style="list-style-type: none"> 1. Skigh Development LLC - 1707 Lindig Street 2. Sagstetter Properties LLC - 1830 Larpenteur Ave. W. 3. Family Empire Holdings, LLC - 1855 Larpenteur Ave. W. 4. Legacy Apartments, LLC - 1845 Larpenteur Ave. W. 5. 1717 Fry Co. Ltd. Partnership - 1687, 1697, 1707 & 1717 Fry Street N.
Budget Impact	N/A
Attachment(s)	N/A
Action(s) Requested	Staff recommends approval of the City license applications contingent on background checks and fire inspections as required.

BLANK PAGE



REQUEST FOR COUNCIL ACTION

Meeting Date	October 26, 2022
Agenda Item	Consent G3
Attachment	Resolution 22-51
Submitted By	Jack Linehan, City Administrator

Item	2023 Ramsey County Select Committee on Recycling & The Environment (SCORE) Grant Submittal and Enter Into Agreement with Ramsey County for Funding
Description	<p>The City of Falcon Heights has a long standing history of working with Ramsey County to increase participation in City Wide Recycling Services. The SCORE Grant helps the City to perform these services and to increase the participation rate through education, events, and a diversity of the activities. The results of these actives contribute to our high participation rate and will continue to do so into the future.</p> <p>Our estimated allocation for 2023 from Ramsey County is \$15,742.</p>
Budget Impact	Funds from the SCORE grant are used for a number of recycling efforts in the city.
Attachment(s)	<ul style="list-style-type: none"> • Resolution 22-51 Authorization to Apply for the Select Committee on Recycling & the Environment (SCORE) Grant
Action(s) Requested	Staff recommend approval of attached resolution authorizing application of the 2023 SCORE grant. The grant is in the estimated amount of \$15,742.

**CITY OF FALCON HEIGHTS
COUNCIL RESOLUTION**

October 26, 2022

No. 22-51

**RESOLUTION AUTHORIZING THE 2023 RAMSEY COUNTY SELECT COMMITTEE
ON RECYCLING & THE ENVIRONMENT (SCORE) GRANT SUBMITTAL AND
ENTER INTO AN AGREEMENT WITH RAMSEY COUNTY FOR FUNDING**

WHEREAS, the City of Falcon Heights has a recycling program, which serves the residents of the City; and

WHEREAS, the City utilizes the Select Committee on Recycling & the Environment (SCORE) Grant funding to offset costs of that program each year; and

WHEREAS, the City Council has determined that participation in this program is beneficial to the residents of Falcon Heights.

NOW THEREFORE BE IT RESOLVED by the City Council of the City of Falcon Heights, Minnesota:

1. Direct staff to apply for the Select Committee on Recycling & the Environment (SCORE) Grant funding to offset costs of the program.
2. Authorize the Mayor and City Administrator to execute all necessary documents.

ADOPTED by the Falcon Heights City Council this 26th day of October, 2022.

Moved by:

Approved by: _____

Randall Gustafson
Mayor

GUSTAFSON
LEEHY
MEYER
WEHYEE

_____ In Favor
_____ Against

Attested by: _____

Jack Linehan
City Administrator

BLANK PAGE



REQUEST FOR COUNCIL ACTION

Meeting Date	October 26, 2022
Agenda Item	Consent G4
Attachment	Application and Resolution 22-52
Submitted By	Kelly Nelson, Assistant to the City Administrator

Item	Appointment of Mike Tracy to the Parks and Recreation Commission
Description	City Staff and a current member of the Parks and Recreation Commission interviewed Mike Tracy for the Parks and Recreation Commission. Mike Tracy is a Falcon Heights resident who has been involved with the U of M's rec sports for many years. Mr. Tracy also brings ideas to the re-design of Community Park from years of experience as a real estate agent and from understanding land values.
Budget Impact	N/A
Attachment(s)	<ul style="list-style-type: none"> • Commission Application • Resolution 22-52 Appointment of Mike Tracy to the Parks and Recreation Commission
Action(s) Requested	Staff recommends approval of attached resolution appointing Mike Tracy to the Parks and Recreation Commission.

**CITY OF FALCON HEIGHTS
COMMISSION APPLICATION**

DATE: August 24 2022

NAME: Michael Tracy

ADDRESS: 1998 Garden Ave

PHONE: [REDACTED] (W) _____

EMAIL ADDRESS: [REDACTED]

HOW LONG AT ABOVE ADDRESS? 1 year

IN WHAT CAPACITY DO YOU WISH TO SERVE? _____

Part Commission

REASON YOU WISH TO SERVE ON ABOVE: _____

To improve our parks

PRIOR PUBLIC (OR RELATED) SERVICE: FM Planning

Commission 1994 to 2007

Roseville Planning Commission 2008-2010

OTHER RELEVANT BACKGROUND (OR COMMENTS): _____

**CITY OF FALCON HEIGHTS
COUNCIL RESOLUTION**

October 26, 2022

No. 22-52

**RESOLUTION APPOINTING MIKE TRACY TO THE PARKS AND RECREATION
COMMISSION**

WHEREAS, the Parks and Recreation Commission shall serve in an advisory capacity to the City Council regarding the effective, meaningful and equal involvement of Falcon Heights residents in their community.

WHEREAS, City Staff and a current Parks Commissioner have interviewed Mike Tracy and recommend appointment to the Falcon Heights Parks and Recreation Commission.

NOW THEREFORE BE IT RESOLVED by the City Council of the City of Falcon Heights, Minnesota:

1. That the appointment of Mike Tracy to the Falcon Heights Parks and Recreation Commission is approved and adopted by the City Council of the City of Falcon Heights.

Moved by:

Approved by: _____
Randall C. Gustafson
Mayor

GUSTAFSON _____ In Favor
LEEHY
MEYER _____ Against
WEHYEE

Attested by: _____
Jack Linehan
City Administrator

BLANK PAGE



REQUEST FOR COUNCIL ACTION

Meeting Date	October 26, 2022
Agenda Item	Consent G5
Attachment	Application and Resolution 22-53
Submitted By	Kelly Nelson, Assistant to the City Administrator

Item	Appointment of Randi Lundell to the Parks and Recreation Commission
Description	City Staff and a current member of the Parks and Recreation Commission interviewed Randi Lundell for the Parks and Recreation Commission. Ms. Lundell is a Falcon Heights resident and frequent user of the parks, who offers ideas for impactful but practical improvements and has previous grant-writing experience. For these reasons, she is an ideal candidate for the commission.
Budget Impact	N/A
Attachment(s)	<ul style="list-style-type: none"> • Commission Application • Resolution 22-53 Appointment of Randi Lundell to the Parks and Recreation Commission
Action(s) Requested	Staff recommends approval of attached resolution appointing Randi Lundell to the Parks and Recreation Commission.

Please complete form below. Starred items are required. Press submit button to complete your application.

Date and Time

09/16/2022 12:00 AM

Full Name

Randi Lundell

Full Address

1743 Maple Court
Falcon Heights, MN 55113
USA

Phone

██████████

Additional Phone

██████████

Email

████████████████████

How Long At Above Address?

2 years

In Which Capacity Would You Like to Serve?

Parks & Recreation

What is the Reason You Would Like to Serve?

I use the park regularly to walk my dog, garden, and host family picnics. I have skated on the skating rink with my children in the past, purchased Christmas trees, and produced a fairly decent harvest from my garden plot. I am a former resident of Roseville (1993-2019) and my children used the playground when they were young. The Falcon Heights park has been of great service to the community and I would like to contribute my time and efforts to its long-standing future.

List Prior (Previous) Public Service

Roseville Police HR Commissioner

Other Relevant Background (Other Comments)

22 years of administrative experience at the University of Minnesota. <https://www.linkedin.com/in/randi-lundell-180a17b/>

**CITY OF FALCON HEIGHTS
COUNCIL RESOLUTION**

October 26, 2022

No. 22-53

**RESOLUTION APPOINTING RANDI LUNDELL TO THE PARKS AND RECREATION
COMMISSION**

WHEREAS, the Parks and Recreation Commission shall serve in an advisory capacity to the City Council regarding the effective, meaningful and equal involvement of Falcon Heights residents in their community.

WHEREAS, City Staff and a current Parks Commissioner have interviewed Randi Lundell and recommend appointment to the Falcon Heights Parks and Recreation Commission.

NOW THEREFORE BE IT RESOLVED by the City Council of the City of Falcon Heights, Minnesota:

1. That the appointment of Randi Lundell to the Falcon Heights Parks and Recreation Commission is approved and adopted by the City Council of the City of Falcon Heights.

Moved by:

Approved by: _____
Randall C. Gustafson
Mayor

GUSTAFSON _____ In Favor
LEEHY
MEYER _____ Against
WEHYEE

Attested by: _____
Jack Linehan
City Administrator

BLANK PAGE



REQUEST FOR COUNCIL ACTION (RCA)

Meeting Date	October 26, 2022
Agenda Item	G6
Attachment	Flexible Benefit Plan Amendment
Submitted By	Roland Olson Finance Director

Item	A Flexible Benefits Plan Amendment to increase the maximum dollar limit allowed by IRS statutory limits.
Description	Falcon Heights established a Flexible Benefit Plan in October of 2007. That plan currently has a \$2,500 maximum reimbursement limit for health care and a \$5,000 maximum reimbursement limit for dependent care. It has been recommended by our Flexible Benefit Plan administrator that we amend the plan to provide for the maximum statutory reimbursement limit of \$3,050 for the health flexible spending part of the plan. This increase is allowed by the Internal Revenue Code, and adjusted from time to time due to inflation. This amendment would allow for future statutory rate increases without us having to amend the plan. Currently, this IRS approved increase is only in the Health Care Flexible Spending part of the plan or in the Limited Health Care Reimbursement Account part of the plan. Dependent care would remain at the \$5,000 level. Currently, city employees only use the Health Care Flexible Spending and dependent care parts of the plan.
Budget Impact	Estimated expenditure for this plan amendment is \$250.
Attachment(s)	City of Falcon Heights Flexible Benefits Plan Amendment.
Action(s) Requested	Staff recommends approving the amendment for the city's Flexible Benefits Plan to allow for the maximum statutory reimbursement limits allowed by the IRS.

City of Falcon Heights
Flexible Benefits Plan

Declaration of Amendment & Restatement

City of Falcon Heights, pursuant to the retained power of amendment contained in Section 6.1 of the City of Falcon Heights Flexible Benefits Plan, restates the Plan in its entirety to read as set forth in the attached instrument, entitled, City of Falcon Heights Flexible Benefit Plan (the "Flexible Benefits Plan" or the "Plan").

The Plan was amended and restated on January 1, 2023, to provide that the maximum reimbursement a Participant may receive for a Plan Year under the Health Care Flexible Spending Account and the Limited Health Care Flexible Spending Account shall be an amount equal to the maximum salary reduction contribution under Section 125(i) of the Internal Revenue Code, as adjusted from time to time due to inflation. The Amended and Restated Plan, except as otherwise expressly provided for in the attached instrument, shall be effective as of January 1, 2023.

IN WITNESS WHEREOF, City of Falcon Heights has caused this instrument to be executed by its duly authorized officers this ___ day of _____ 2022.

City of Falcon Heights

By: _____

Its: _____

City of Falcon Heights

FLEXIBLE BENEFITS PLAN HIGHLIGHTS

- Plan Year:** January 1 through December 31
- Eligibility:** Employees scheduled to work 40 hours per week are eligible to participate in the Flexible Benefits Plan effective on the first day of the month following date of employment, provided the election procedures are followed.
- Claims Administrator:** Benefit Extras, Inc.
P.O. Box 1815
Burnsville, MN 55337
Ph. 952-435-6858 (Toll-free 1-866-435-6858)
Fax 952-435-8435 (Toll-free 1-800-886-8793)
E-mail: flex@benefitextras.com
Forms & On-line inquiry: www.benefitextras.com
Health Care Expense Table Access Code: HCET2022
- Reimbursements:** Reimbursements are issued within 2 business days.
- Accounts Available:**
- 1) Employer Sponsored Health Insurance Premiums
 - 2) Health Care Flexible Spending Account – Annual Maximum \$3,050 – If you elect to contribute to this Account, you or your spouse may not contribute to a Health Savings Account for the calendar year including the Plan Year.
 - 2B) Limited Health Care Reimbursement Account (dental, vision and post-deductible expenses) – Annual Maximum \$3,050 – If you elect to contribute to this Account, you or your spouse may also contribute to a Health Savings Account, if you are otherwise eligible.
 - 3) Dependent Care Flexible Spending Account – Annual Maximum \$5,000
Married filing a joint tax return (\$2,500 if married filing separate tax returns)
- Important Note:** You may participate in either the Health Care Flexible Spending Account or the Limited Health Care Flexible Spending Account, but not both.
- Grace Period Included:** Yes. Claims incurred during the 2 months and 15 days following the end of the Plan Year are eligible to be reimbursed out of the prior Plan Year election if indicated on the claim form.
- Rollover Provision Included:** No. Unused FSA dollars at the end of the run out period are not eligible to be rolled over into the subsequent plan year, but rather will be forfeited under the use or lose provision of the plan.
- Terminations/Changes:**
- 1) Terminated employees have 90 days following termination to submit claims for expenses incurred prior to termination;
 - 2) COBRA may also be available;
 - 3) Change in Family Status rules apply
- Run Out Period End Date:** Participants have 90 days from the end of the Plan Year to submit eligible expenses that were incurred during the Plan Year or during the Grace Period.

**This is intended as a brief overview of your Flexible Benefits Plan.
Please consult your Summary Plan Description for complete details of the Flexible Benefits Plan.**

BLANK PAGE