

2024 MILL & OVERLAY AND FULL DEPTH RECLAMATION IMPROVEMENTS PROJECT

MUNICIPAL PROJECT NO. 4424

FEASIBILITY REPORT

Council Approval Date: September 19, 2023
Revised Council Approval Date: December 19, 2023
Amended Council Approval Date: January 16, 2024
3rd Amended Council Approval Date: _____

Prepared for
City of Baxter

WIDSETH No. 2023-10353

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



Alex Bitter
Professional Engineer

57744

License Number

04-16-2024

Date

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STATEMENT OF PURPOSE

The purpose of this Report is to review the feasibility of improving various roadway segments within the municipal limits as part of the City of Baxter's ongoing pavement management program. Residential and commercial roadways are scheduled for maintenance improvements in 2024. On March 7, 2023, the City Council authorized Widseth to complete a Feasibility Report relative to these improvements.

Roadways and projects reviewed in this Report include:

Residential Mill & Overlay:

- Jepson Road in its entirety.
- Kingwood Drive in its entirety.
- Knollwood Court in its entirety.
- Fairfax Road in its entirety.
- Fairfax Court in its entirety.
- Cottage Grove Drive in its entirety.
- Northwoods Drive in its entirety.
- Camden Road in its entirety.
- Kenwood Drive (Fairview Road to 1,590' north of Fairview Road)

Residential Full Depth Reclamation:

- Interlacken Road in its entirety.
- Fairmont Court in its entirety.
- Edmonton Road in its entirety.
- Donald Street in its entirety.
- Parkwood Drive (Mountain Ash Drive to Kingwood Drive)
- Knollwood Drive (Fairview Road to Donald Street)
- Glory Road (1,600' west of Isle Drive to 1,125' west of Isle Drive)

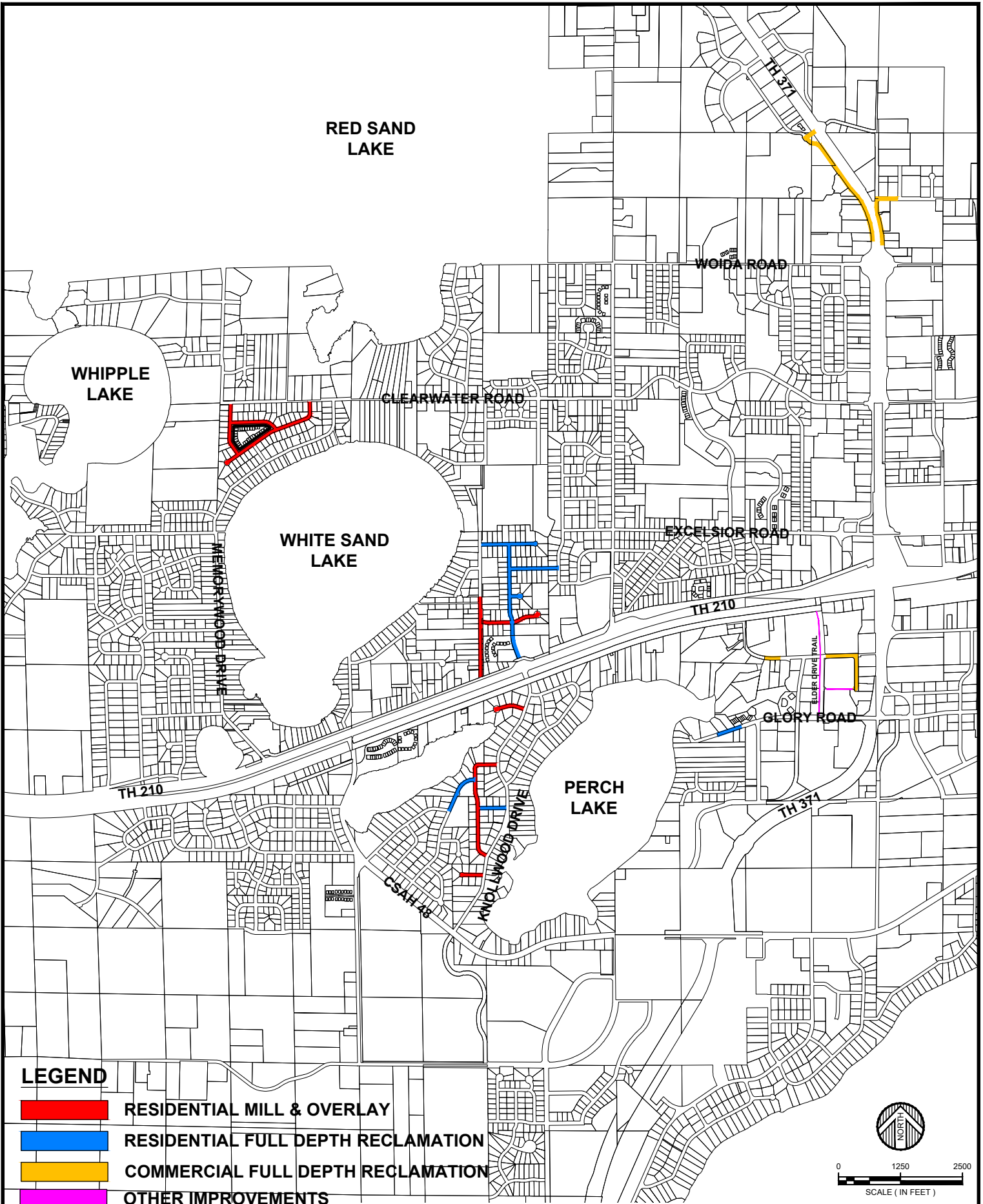
Commercial Full Depth Reclamation:

- Elmwood Drive in its entirety.
- Forthun Road (Elder Dr to Elmwood Drive)
- Forthun Road (570' west of roundabout to 386' west of roundabout)
- Edgewood Drive (530' north of Woida Road to Novotny Road)
- Novotny Road (300' west of TH 371 to TH 371)
- Whispering Woods Lane (Dellwood Drive to Pearl Drive)
- Dellwood Drive (430' north of Woida Road to Whispering Woods Lane)

Other Improvements

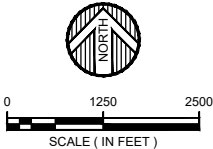
- Garrison Road Trail and City Utility Improvements
- Elder Drive Trail Improvements

This Report will review existing conditions, propose feasible improvements, estimate project costs, discuss project implementation, and present conclusions and recommendations for the Project Area. The Project Areas are shown in Figure 1.



LEGEND

- RESIDENTIAL MILL & OVERLAY
- RESIDENTIAL FULL DEPTH RECLAMATION
- COMMERCIAL FULL DEPTH RECLAMATION
- OTHER IMPROVEMENTS



	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.	DATE: AUGUST 2023 SCALE: AS SHOWN DRAWN BY: AMM CHECKED BY: ADB	2024 MILL & OVERLAY AND FDR IMPROVEMENTS CITY OF BAXTER BAXTER, MINNESOTA	SHEET NO.
	ALEX D. BITTER DATE: LIC. NO. 97744	REVISIONS DESCRIPTION	JOB NUMBER: 2023-10353	PROJECT LOCATION MAP

EXISTING CONDITIONS

Residential Mill & Overlay

Jepson Road

Jepson Road is a cul-de-sac road located west of Knollwood Drive. The roadway is approximately 496 feet in length with a standard cul-de-sac at the west end. This Project Area is zoned R1, low density residential and is located within a 66-foot-wide platted right-of-way. The roadway corridor was last improved in 2001 as part of the “2001 Parkwood Area Improvements.” The project included construction of gravity sanitary sewer and rural roadway section.

Jepson Road is 26’ wide with two-13’ driving lanes and a 1’ grassed shoulder. The pavement section consists of 3.5” bituminous and 4” of Class 5 base. This roadway does not meet the City standard of a 9-ton roadway. In 2022 the roadway was given a PASER Rating of 7. The PASER evaluates the pavement condition regarding the longitudinal and lateral cracking of the bituminous. Along with the cracking, there are areas that consist of stripping of the bituminous approximately ½” in depth. The stripping has shown to move quickly through the entire bituminous section if not removed as signs of stripping starts.

This roadway does not have a trail, curb and gutter or a storm sewer system. The runoff from the roadway drains off in the shallow swales along the side of the road where runoff infiltrates. There are some signs of flooding on the east end of the road, but it appears to be seasonal and short term. There may need to be some deepening of the ditches to reduce the chance of runoff from standing on the road and the driveways.

This area is served by an 8” PVC sanitary sewer that was constructed as part of the 2001 Parkwood Area improvements. Televising has not been completed as part of this project so any issues with the pipe has not been determined. The manhole lids need repair and require new rings and castings.

This area is also served by an 8” PVC water main that was constructed as part of the 1979 Water Improvements Project. This era of construction was known to use plastic water main fittings. Based on the 2019 Watermain Fitting Review Report, Jepson Road’s fittings are likely ductile iron. A water main exploratory excavation needs to be completed to fully determine the type of fittings and replace them if necessary. The fire hydrant on the west end of the cul-de-sac is still the original hydrant and is likely in need of restoration based on the 2019 Hydrant Installation Year Review Report.



Kingwood Drive

Kingwood Drive is located west of Knollwood Drive and runs along Loren Thompson Park. The roadway is approximately 2,381 feet in length. The Project Area is zoned R1, low-density residential and is located within a 66-foot-wide platted right-of-way. The roadway corridor was last improved in 2001 as part of the “2001 Parkwood Area Improvements.” The project included construction of gravity sanitary sewer and rural roadway section.

Kingwood Drive is 26’ wide with two-13’ driving lanes and a 1’ grassed shoulder. There is a trail that runs 55’ connecting the Interlacken Road trail to Loren Thompson Park. The pavement section consists of 3.5” bituminous and 4” of Class 5 base. This roadway does not meet the City standard of a 9-ton roadway. In 2022 the roadway was given a PASER Rating range of 5 to 7. The PASER evaluates the pavement condition regarding longitudinal and lateral cracking of the bituminous. Along with the cracking, there are areas that consist of stripping of the bituminous at ½” in depth. The stripping has shown to move quickly through the entire bituminous section if not removed as signs of stripping starts. The biggest areas of concern are the intersection with Parkwood Drive and the road section north of that intersection. This area sees a lot more traffic than the rest of the road.

This roadway does not have curb and gutter or a storm sewer system. The runoff from the roadway drains off in the shallow swales along the side of the road where runoff infiltrates. There are some signs of flooding near the intersection of Knollwood Drive which flows over a driveway. A culvert may be helpful underneath the driveway. There may need to be some deepening of the ditches to reduce the chance of runoff from standing on the road and the driveways.

This area is served by an 8” PVC sanitary sewer which was constructed as part of the 2001 Parkwood Area improvements. Televising has not been completed as part of this project, so no issues with the pipe have not been determined. The manhole lids need repair and require new rings and castings.

This area is also served by an 8” PVC watermain that was constructed as part of the 1979 Water Improvements Project. This era of construction was known to use plastic water main fittings. Based on the 2019 Watermain Fitting Review Report, the intersection of Kingwood Drive with Parkwood Drive is likely to have PVC fittings. The rest of Kingwood Drive’s fittings are likely to be ductile iron. A water main exploratory excavation needs to be completed to fully determine the type of fittings and replace them if necessary. The two fire hydrants on Kingwood Drive are still the original hydrants and are likely in need of restoration based on the 2019 Hydrant Installation Year Review Report.



Knollwood Court

Knollwood Court is a cul-de-sac located west of Knollwood Drive. The roadway is approximately 660 feet in length. The Project Area is zoned R1, low-density residential and is located within a 66-foot-wide platted right-of-way. This roadway does not have a trail associated with it. The roadway corridor was last improved in 2001 as part of the “2001 Parkwood Area Improvements.” The project included construction of gravity sanitary sewer and rural roadway section.

Knollwood Court is 26’ wide with two-13’ driving lanes and a 1’ grassed shoulder. The pavement section consists of 3.5” bituminous and 4” of Class 5 base. This roadway does not meet the City standard of a 9-ton roadway. In 2022 the roadway was given a PASER Rating of 7. The PASER evaluates the pavement condition regarding longitudinal and lateral cracking of the bituminous. Along with the cracking, there are areas that consist of stripping of the bituminous approximately ½” in depth, especially in the cul-de-sac area. The stripping has shown to move quickly through the entire bituminous section if not removed as signs of stripping starts.

The storm sewer system that serves this area was constructed as part of the 2001 Parkwood Area Improvements. This roadway does not have curb and gutter or a storm sewer system. The runoff from the roadway drains off in the shallow swales along the side of the road where runoff infiltrates. There may need to be some deepening of the ditches to reduce the chance of runoff from standing on the road and the driveways.

This area is served by an 8” PVC sanitary sewer that was constructed as part of the 2001 Parkwood Area improvements. Televising has not been completed as part of this project so any issues with the pipe has not been determined. The manhole lids need repair and require new rings and castings.

This area is served by an 8” PVC watermain that was constructed as part of the 1979 Water Improvements Project. This era of construction was known to use plastic water main fittings. Based on the 2019 Watermain Fitting Review Report, Knollwood Court likely has ductile iron fittings. A water main exploratory excavation needs to be completed to fully determine the type of fittings and replace them if necessary. The fire hydrant in the cul-de-sac on the west end of the road is still the original hydrant and is likely in need of restoration based on the 2019 Hydrant Installation Year Review Report.



Fairfax Road

Fairfax Road runs between Kenwood Drive and Knollwood Drive. The roadway is approximately 647 feet in length. This Project Area is zoned R1, low density residential and is located within a 66-foot-wide platted right-of-way. The roadway corridor was last improved in 2002 as part of the “2002 Paige and Blair Second Addition Improvements.” The project included construction of gravity sanitary sewer, watermain and rural roadway section.

Fairfax Road is 26’ wide with two-13’ driving lanes and a 1’ grassed shoulder. The pavement section consists of 3.5” bituminous and 5” of Class 5 base. This roadway does meet the City standard of a 9-ton roadway. In 2022 the roadway was given a PASER Rating of 7. The PASER evaluates the pavement condition regarding longitudinal and lateral cracking of the bituminous. Along with the cracking there are areas that consist of stripping of the bituminous 1-1 ½” in depth. The stripping has shown to move quickly through the entire bituminous section if not removed as signs of stripping starts.

This roadway does not have a trail, curb and gutter or a storm sewer system. The runoff from the roadway drains off in the shallow swales along the side of the road where runoff infiltrates. There may need to be some deepening of the ditches to reduce the chance of runoff from standing on the road and the driveways.

This area is served by an 8” PVC sanitary sewer that was constructed as part of the 2002 Paige and Blair Second Addition Improvements. Televising has not been completed as part of this project so any issues with the pipe has not been determined. The manhole lids need repair and require new rings and castings.

This area is also served by a 6” PVC watermain that was constructed as part of the 2002 Paige and Blair Second Addition Improvements. This area of watermain was not shown on the 2019 Watermain Fitting Review Report or the 2019 Hydrant Installation Year Review Report that needs corrective work or exploratory excavations.



Fairfax Court

Fairfax Court is a cul-de-sac located east of Knollwood Drive and across from Fairfax Road. The roadway is approximately 592 feet in length with a cul-de-sac at the east end. This Project Area is zoned R1, low density residential and is located within a 66-foot-wide platted right-of-way. The roadway corridor was last improved in 2002 as part of the “2002 Paige and Blair Second Addition Improvements.” The project included construction of gravity sanitary sewer, watermain and rural roadway section.

Fairfax Court is 26’ wide with two-13’ driving lanes and a 1’ grassed shoulder. The pavement section consists of 3.5” bituminous and 5” of Class 5 base. This roadway does meet the City standard of a 9-ton roadway. In 2022 the roadway was given a PASER Rating of 7. The PASER evaluates the pavement condition regarding longitudinal and lateral cracking of the bituminous. Along with the cracking there are areas that consist of stripping of the bituminous at ½” in depth especially in the cul-de-sac, and some potholes. The stripping has shown to move quickly through the entire bituminous section if not removed as signs of stripping starts.

This roadway does not have a trail, curb and gutter or a storm sewer system. The runoff from the roadway drains off in the shallow swales along the side of the road where runoff infiltrates. There may need to be some deepening of the ditches to reduce the chance of runoff from standing on the road and the driveways.

This area is served by an 8” PVC sanitary sewer that was constructed as part of the 2002 Paige and Blair Second Addition Improvements. Televising has not been completed as part of this project so any issues with the pipe has not been determined. The manhole lids need repair and require new rings and castings.

This area is also served by a 6” PVC watermain that was constructed as part of the 2002 Paige and Blair Second Addition Improvements. This area of watermain was not shown on the 2019 Watermain Fitting Review Report or the 2019 Hydrant Installation Year Review Report that needs corrective work or exploratory excavations.



Cottage Grove Drive

Cottage Grove Drive is a road south of Clearwater Road that ends in a cul-de-sac. The roadway is approximately 2,345 feet in length with a cul-de-sac on the southwest end. This Project Area is zoned R1, low density residential and is located within a 66-foot-wide platted right-of-way. The roadway corridor was last improved in 2003 as part of the “2003 Cottage Grove Drive Utility Extensions.” The project included completing construction of gravity sanitary sewer, watermain and rural roadway section.

Cottage Grove Drive is 26’ wide with two-13’ driving lanes and a 1’ grassed shoulder. The pavement section consists of 3” bituminous and 4” of Class 5 base. This roadway does not meet the City standard of a 9-ton roadway. In 2022 the roadway was given a PASER Rating range of 7 to 8. The PASER evaluates the pavement condition regarding longitudinal and lateral cracking of the bituminous. In addition to the cracking there is stripping occurring on this road as well at ½” in depth. The stripping has shown to move quickly through the entire bituminous section if not removed as signs of stripping starts.

This roadway does not have a trail, curb and gutter or a storm sewer system. The runoff from the roadway drains off in the shallow swales along the side of the road where runoff infiltrates. There may need to be some deepening of the ditches to reduce the chance of runoff from standing on the road and the driveways.

This area is served by an 8” PVC sanitary sewer from Northwoods Drive to the cul-de-sac and a 10” PVC from Camden Road to Northwoods Drive that was constructed as part of the 1996 White Sand North Subdivision Improvements Phase 1. A 10” PVC was constructed with the White Sand North 1999 Phase 3 Improvements and 2003 Cottage Grove Drive Utility Extensions. Televising has not been completed as part of this project so any issues with the pipe has not been determined. The manhole lids need repair and require new rings and castings.

This area is also served by a 6” PVC watermain that was constructed as part of the 1996 White Sand North Subdivision Improvements Phase 1, White Sand North 1999 Phase 3 Improvements, and 2003 Cottage Grove Drive Utility Extensions. This area of watermain was not shown on the 2019 Watermain Fitting Review Report or the 2019 Hydrant Installation Year Review Report that needs corrective work or exploratory excavations.



Northwoods Drive

Northwoods Drive is a road that runs between Clearwater Road and the west side of Cottage Grove Drive. The roadway is approximately 1,102 feet in length. This Project Area is zoned R1, low density residential and is located within a 66-foot-wide platted right-of-way. The roadway corridor was last improved in 1997 as part of the “1997 White Sand North Subdivision Improvements Phase 2.” The project included construction of gravity sanitary sewer, watermain and rural roadway section.

Northwoods Drive is 26’ wide with two-13’ driving lanes and a 1’ grassed shoulder. The pavement section consists of 3” bituminous and 4” of Class 5 base. This roadway does not meet the City standard of a 9-ton roadway. In 2022 the roadway was given a PASER Rating of 7. The PASER evaluates the pavement condition regarding longitudinal and lateral cracking of the bituminous. Along with the cracking there are areas that consist of stripping of the bituminous at ½” in depth. The stripping has shown to move quickly through the entire bituminous section if not removed as signs of stripping starts.

This roadway does not have a trail, curb and gutter or a storm sewer system. The runoff from the roadway drains off in the shallow swales along the side of the road where runoff infiltrates. There may need to be some deepening of the ditches to reduce the chance of runoff from standing on the road and the driveways.

This area is served by a 10” PVC sanitary sewer that was constructed as part of the 1996 White Sand North Subdivision Improvements Phase 1 and 1997 White Sand North Subdivision Improvements Phase 2. Televising has not been completed as part of this project so any issues with the pipe has not been determined. The manhole lids need repair and require new rings and castings.

This area is also served by a 6” PVC watermain that was constructed as part of the 1996 White Sand North Subdivision Improvements Phase 1 and 1997 White Sand North Subdivision Improvements Phase 2. This area of watermain was not shown on the 2019 Watermain Fitting Review Report or the 2019 Hydrant Installation Year Review Report that needs corrective work or exploratory excavations.



Camden Road

Camden Road runs between Northwoods Drive and Cottage Grove Drive. The roadway is approximately 990 feet in length. This Project Area is zoned R1, low density residential and is located within a 66-foot-wide platted right-of-way. The roadway corridor was last improved in 1999 as part of the “1999 White Sand North Phase 3 Improvements.” The project included construction of gravity sanitary sewer, watermain and rural roadway section.

Camden Road is 26’ wide with two-13’ driving lanes and a 1’ grassed shoulder. The pavement section consists of 3” bituminous and 4” of Class 5 base. This roadway does not meet the City standard of a 9-ton roadway. In 2022 the roadway was given a PASER Rating of 7. The PASER evaluates the pavement condition regarding longitudinal and lateral cracking of the bituminous. Along with the cracking there are areas that consist of stripping of the bituminous at ½” in depth. The stripping has shown to move quickly through the entire bituminous section if not removed as signs of stripping starts.

This roadway does not have a trail, curb and gutter or a storm sewer system. The runoff from the roadway drains off in the shallow swales along the side of the road where runoff infiltrates. There are some areas that does not drain well and driveways are under water during the spring melt and large rain events. There may need to be some deepening of the ditches to reduce the chance of runoff from standing on the road and the driveways.

This area is served by an 8” PVC sanitary sewer that was constructed as part of the White Sand North 1999 Phase 3 Improvements. Televising has not been completed as part of this project so any issues with the pipe has not been determined. The manhole lids need repair and require new rings and castings.

This area is also served by a 6” PVC watermain that was constructed as part of the White Sand North 1999 Phase 3 Improvements. This area of watermain was not shown on the 2019 Watermain Fitting Review Report or the 2019 Hydrant Installation Year Review Report that needs corrective work or exploratory excavations.



Kenwood Drive

This section of Kenwood Drive runs from Fairview Road to approximately 1,590' north of Fairview Road. The roadway is 1,646 feet in length. This Project Area is zoned R1, low density residential and R3, high density residential and is located within a 66-foot-wide platted right-of-way. The roadway corridor was last improved in 2004 as part of the "2004 Kenwood Drive and Sandstone Road Improvements." The project included construction of gravity sanitary sewer, watermain and rural roadway section.

Kenwood Drive is 26' wide with two-13' driving lanes and a 1' grassed shoulder. The pavement section consists of 3.5" bituminous and 5" of Class 5 base. This roadway does meet the City standard of a 9-ton roadway. In 2022 the roadway was given a PASER Rating range of 6 to 7. The PASER evaluates the pavement condition regarding longitudinal and lateral cracking of the bituminous. Along with the cracking there are areas that consist of stripping of the bituminous at ½" in depth and the right-of-way needs to be cleaned up. The stripping has shown to move quickly through the entire bituminous section if not removed as signs of stripping starts.

This roadway does not have a trail, curb and gutter or a storm sewer system. The runoff from the roadway drains off in the shallow swales along the side of the road where runoff infiltrates. There may need to be some deepening of the ditches to reduce the chance of runoff from standing on the road and the driveways.

This area is served by an 8" PVC sanitary sewer that was constructed as part of the 2004 Kenwood Drive and Sandstone Road Improvements. Televising has not been completed as part of this project so any issues with the pipe has not been determined. The manhole lids need repair and require new rings and castings.

This area is also served by an 8" PVC watermain that was constructed as part of the 1989 Sewer and Water Improvements and the 2004 Kenwood Drive and Sandstone Road Improvements. This era of construction was known to use plastic water main fittings. Based on the 2019 Watermain Fitting Review Report, the area of Kenwood Drive from Sandstone Road to Donald Street most likely has PVC fittings. A water main exploratory excavation needs to be completed to determine the type of fittings and replace them, if necessary.



Residential Full Depth Reclamation

Interlacken Road

Interlacken Road runs between Kingwood Drive and Knollwood Drive. The roadway is approximately 603 feet in length. The Project Area is zoned R1, low-density residential and is located within a 66-foot-wide platted right-of-way. The roadway corridor was last improved in 2001 as part of the “2001 Parkwood Area Improvements.” The project included construction of gravity sanitary sewer and rural roadway section.

Interlacken Road is 36’ wide, with two-13’ driving lanes, a 10’ continuation of pavement trail and a 1’ grassed shoulder. The pavement section consists of 3.5” bituminous and 4” of Class 5 base. This roadway does not meet the City standard of a 9-ton roadway. In 2022 the roadway was given a PASER Rating of 5. The PASER evaluates the pavement condition regarding longitudinal and lateral cracking of the bituminous. Along with the cracking, there are areas that consist of stripping of the bituminous approximately ½” to 1” in depth. The stripping has shown to move quickly through the entire bituminous section if not removed as signs of stripping starts.

This roadway does not have curb and gutter or a storm sewer system. The runoff from the roadway drains off in the shallow swales along the side of the road where runoff infiltrates. There may need to be some deepening of the ditches to reduce the chance of runoff from standing on the road and the driveways.

This area is served by an 8” PVC sanitary sewer, which was constructed as part of the 2001 Parkwood Area improvements. Televising has not been completed as part of this project so any issues with the pipe has not been determined. The manhole lids need repair and require new rings and castings.

This area is also served by a 6” PVC watermain that was constructed as part of the 1979 Water Improvements Project. This era of construction was known to use plastic water main fittings. Based on the 2019 Watermain Fitting Review Report, Interlacken Road likely has ductile iron fittings. A water main exploratory excavation needs to be completed to fully determine the type of fittings and replace them if necessary. The fire hydrant on the west end of the road is still the original hydrant and is likely in need of restoration based on the 2019 Hydrant Installation Year Review Report.



Fairmont Court

Fairmont Court is a cul-de-sac located east of Knollwood Drive, north of T.H. 210. The roadway is approximately 273 feet in length with a cul-de-sac at the east end. This Project Area is zoned R1, low density residential and is located within a 66-foot-wide platted right-of-way. The roadway corridor was last improved in 2000 as part of the “2000 Paige and Blair First Addition Improvements.” The project included construction of gravity sanitary sewer, watermain and rural roadway section.

Fairmont Court is 26’ wide with two-13’ driving lanes and a 1’ grassed shoulder. The pavement section consists of 3.5” bituminous and 5” of Class 5 base. This roadway does meet the City standard of a 9-ton roadway. In 2022 the roadway was given a PASER Rating of 5. The PASER evaluates the pavement condition regarding longitudinal and lateral cracking of the bituminous. Along with the significant cracking there are areas that consist of stripping of the bituminous especially in the cul-de-sac approximately ½” in depth. The stripping has shown to move quickly through the entire bituminous section if not removed as signs of stripping starts.

This roadway does not have a trail, curb and gutter or a storm sewer system. The runoff from the roadway drains off in the shallow swales along the side of the road where runoff infiltrates. There may need to be some deepening of the ditches to reduce the chance of runoff from standing on the road and the driveways.

This area is served by an 8” PVC sanitary sewer that was constructed as part of the 2000 Paige and Blair First Addition Improvements. Televising has not been completed as part of this project so any issues with the pipe has not been determined. The manhole lids need repair and require new rings and castings.

This area is also served by a 6” PVC watermain that was constructed as part of the 2000 Paige and Blair First Addition Improvements. This area of watermain was not shown on the 2019 Watermain Fitting Review Report or the 2019 Hydrant Installation Year Review Report that needs corrective work or exploratory excavations.



Edmonton Road

Edmonton Road runs between Knollwood Drive and Cherrywood Drive. The roadway is approximately 997 feet in length. This Project Area is zoned R1, low density residential and is located within a 66-foot-wide platted right-of-way. The roadway corridor was last improved in 1999 as part of the “1999 Paige and Blair Improvements.” The project included construction of gravity sanitary sewer, watermain and rural roadway section.

Edmonton Road is 26’ wide with two-13’ driving lanes and a 1’ grassed shoulder. The pavement section consists of 3” bituminous and 4” of Class 5 base. This roadway does not meet the City standard of a 9-ton roadway. In 2022 the roadway was given a PASER Rating of 5. The PASER evaluates the pavement condition regarding longitudinal and lateral cracking of the bituminous and lots of patching.

This roadway does not have a trail, curb and gutter or a storm sewer system. The runoff from the roadway drains off in the shallow swales along the side of the road where runoff infiltrates. There may need to be some deepening of the ditches to reduce the chance of runoff from standing on the road and the driveways.

This area is served by an 8” PVC sanitary sewer that was constructed as part of the 1999 Paige and Blair Improvements. Televising has not been completed as part of this project so any issues with the pipe has not been determined. The manhole lids need repair and require new rings and castings.

This area is also served by a 6” PVC watermain that was constructed as part of the 1999 Paige and Blair Improvements. This area of watermain was not shown on the 2019 Watermain Fitting Review Report or the 2019 Hydrant Installation Year Review Report that needs corrective work or exploratory excavations.



Donald Street

Donald Street is a road that runs between Kenwood and Knollwood Drive. The roadway is approximately 1,161 feet in length. This Project Area is zoned R1, low density residential and is located within a 66-foot-wide platted right-of-way. The roadway corridor was last improved in 1989 as part of the "1989 Sewer and Water Improvements." The project included construction of gravity sanitary sewer, watermain and rural roadway section.

Donald Street is 24' wide with two-12' driving lanes and a 1' grassed shoulder. The pavement section consists of 3" bituminous and 3" of Class 5 base. This roadway does not meet the City standard of a 9-ton roadway. In 2022 the roadway was given a PASER Rating of 6. The PASER evaluates the pavement condition regarding longitudinal and lateral cracking of the bituminous.

This roadway does not have a trail, curb and gutter or a storm sewer system. The runoff from the roadway drains off in the shallow swales along the side of the road where runoff infiltrates. There may need to be some deepening of the ditches to reduce the chance of runoff from standing on the road and the driveways.

This area is served by a 10" PVC sanitary sewer that was constructed as part of the 1989 Sewer and Water Improvements. Televising has not been completed as part of this project so any issues with the pipe has not been determined.

This area is also served by an 8" PVC watermain that was constructed as part of the 1989 Sewer and Water Improvements. This era of construction was known to use plastic water main fittings. Based on the 2019 Watermain Fitting Review Report, Donald Street's intersection with Kenwood Drive likely has plastic fittings. A water main exploratory excavation needs to be completed to fully determine the type of fittings and replace them if necessary.



Parkwood Drive

This section of Parkwood Drive runs from Mountain Ash Drive to Kingwood Drive. The roadway is approximately 879 feet in length. This Project Area is zoned R1, low density residential and Public Benefit and is located within a 66-foot-wide platted right-of-way. The roadway corridor was last improved in 2001 as part of the “2001 Parkwood Area Improvements.” The project included construction of gravity sanitary sewer, section of watermain and rural roadway section.

Parkwood Drive is 26’ wide with two-13’ driving lanes and a 1’ grassed shoulder. The pavement section consists of 3” bituminous and 4” of Class 5 base. This roadway does not meet the City standard of a 9-ton roadway. In 2022 the roadway was given a PASER Rating of 4. The PASER evaluates the pavement condition regarding longitudinal and lateral cracking of the bituminous. Along with the cracking there are areas that consist of stripping of the bituminous at ½” in depth and numerous potholes and patching. The stripping has shown to move quickly through the entire bituminous section if not removed as signs of stripping starts.

This roadway does not have a trail, curb and gutter or a storm sewer system. The runoff from the roadway drains off in the shallow swales along the side of the road where runoff infiltrates. There may need to be some deepening of the ditches to reduce the chance of runoff from standing on the road and the driveways.

This area is served by an 8” PVC sanitary sewer that was constructed as part of the 1992 Wedgewood and Oak Street Improvements and 2001 Parkwood Area Improvements. Televising has not been completed as part of this project so any issues with the pipe has not been determined. The manhole lids need repair and require new rings and castings.

This area is also served by a 6” PVC watermain that was constructed as part of the 1987 Southdale Utility Extensions and Kentwood Drive Improvements. An 8” PVC was constructed with the 1992 Wedgewood and Oak Street Improvements. This era of construction was known to use plastic water main fittings. Based on the 2019 Watermain Fitting Review Report, this section of Parkwood Drive has fittings that are likely PVC. A water main exploratory excavation needs to be completed to fully determine the type of fittings and replace them, if necessary.



Knollwood Drive

This section of Knollwood Drive runs from Fairview Road to Donald Street North of T.H. 210. The roadway is approximately 2,354 feet in length. This Project Area is zoned R1, low density residential and is located within a 66-foot-wide platted right-of-way. The roadway corridor was last improved in 2003 as part of the “2003 Paige and Blair Second Addition and 2003 Knollwood Drive Extensions (North of T.H. 210) Improvements.” The project included construction of sections of gravity sanitary sewer, watermain and rural roadway section.

Knollwood Drive is 26’ wide with two-13’ driving lanes and a 1’ grassed shoulder. The pavement section consists of 3.5” bituminous and 5” of Class 5 base. This roadway does meet the City standard of a 9-ton roadway. In 2022 the roadway was given a PASER Rating range of 4 to 6. The PASER evaluates the pavement condition regarding longitudinal and lateral cracking of the bituminous. Along with the cracking there are areas that consist of stripping of the bituminous at ½” in depth. The stripping has shown to move quickly through the entire bituminous section if not removed as signs of stripping starts. This road has areas of pavement that are lower than the rest of the road and a lot of damaged areas.

This roadway does not have a trail, curb and gutter or a storm sewer system. The runoff from the roadway drains off in the shallow swales along the side of the road where runoff infiltrates. There are drainage issues at the intersection with Donald Street. There may need to be some deepening of the ditches to reduce the chance of runoff from standing on the road and the driveways.

This area is served by an 8” and 10” PVC sanitary sewer that was constructed as part of the 1989 Sewer and Water Improvements, 1999 Paige and Blair Improvements, 2000 Paige and Blair First Addition and the 2003 Paige and Blair Second Addition. Televising has not been completed as part of this project so any issues with the pipe has not been determined. The manhole lids need repair and require new rings and castings.

This area is also served by an 8” PVC watermain that was constructed as part of the 1989 Sewer and Water Improvements, 1999 Paige and Blair Improvements, 2000 Paige and Blair First Addition, 2003 Paige and Blair Second Addition, and 2003 Knollwood Drive Extensions (North of T.H. 210) Improvements. This era of construction was known to use plastic water main fittings. Based on the 2019 Watermain Fitting Review Report, Knollwood Drive’s intersection with Donald Street has fittings that are likely PVC. A water main exploratory excavation needs to be completed to fully determine the type of fittings and replace them, if necessary.



Glory Road

This section of Glory Road runs from 1,600' west of Isle Drive to approximately 1,125' west of Isle Drive. The roadway is 515 feet in length. This Project Area is zoned R1, low density residential and is located within a 66-foot-wide platted right-of-way. The roadway corridor was last improved in 2000 as part of the "2000 Glory Road Improvements." The project included construction of gravity sanitary sewer, watermain and rural roadway section.

Glory Road is 26' wide with two-13' driving lanes and a 1' grassed shoulder. The pavement section consists of 3.5" bituminous and 5" of Class 5 base. This roadway does meet the City standard of a 10-ton roadway. In 2022 the roadway was given a PASER Rating of 3. The PASER evaluates the pavement condition regarding longitudinal and lateral cracking of the bituminous. Along with the cracking there are areas that consist of a lot of patching.

This roadway does not have a trail, curb and gutter or a storm sewer system. The runoff from the roadway drains off in the shallow swales along the side of the road where runoff infiltrates. There may need to be some deepening of the ditches to reduce the chance of runoff from standing on the road and the driveways.

This area is served by an 8" PVC sanitary sewer that was constructed as part of the 2000 Glory Road Improvements. Televising has not been completed as part of this project so any issues with the pipe has not been determined. The manhole lids need repair and require new rings and castings.

This area is also served by an 8" PVC watermain that was constructed as part of the 2000 Glory Road Improvements. This area of watermain was not shown on the 2019 Watermain Fitting Review Report or the 2019 Hydrant Installation Year Review Report that needs corrective work or exploratory excavations.



Commercial Full Depth Reclamation

Elmwood Drive

Elmwood Drive runs between Forthun Road and Garrison Road east of T.H. 371. The roadway is approximately 681 feet in length. This Project Area is zoned C2, regional commercial and is located within an 80-foot-wide platted right-of-way. The roadway corridor was constructed in 1998 as part of the "1998 MNDOT T.H. 210 to T.H. 371 Project Area." The project included construction of gravity sanitary sewer, watermain and urban roadway section.

Elmwood Drive is 33' wide with two-16.50' driving lanes. The pavement section consists of 3.5" bituminous and 6" of class 6 base. This roadway does not meet the City standard of a 10-ton roadway. In 2022 the roadway was given a PASER Rating of 6. The PASER evaluates the pavement condition regarding longitudinal and lateral cracking of the bituminous. Along with the cracking there are areas that consist of stripping of the bituminous approximately 1 ½"-2" in depth, patching from construction entrances and curb issues. The stripping has shown to move quickly through the entire bituminous section if not removed as signs of stripping starts.

This area is served by a storm sewer system that was constructed as part of the 1998 MNDOT T.H. 210 to T.H. 371 Project Area.

This area is served by an 8" PVC sanitary sewer that was constructed as part of the 1998 MNDOT T.H. 210 to T.H. 371 Project Area. Televising has not been completed as part of this project, so any issues with the pipe have not been determined. The manhole lids need repair and require new rings and castings.

This area is also served by an 8" PVC watermain that was constructed as part of the the 1996 Watermain Extensions for Navillus Land Company and 1998 MNDOT T.H. 210 to T.H. 371 Project Area. This area of watermain was not shown on the 2019 Watermain Fitting Review Report or the 2019 Hydrant Installation Year Review Report that needs corrective work or exploratory excavations.



Forthun Road East

This section of Forthun Drive runs from Elder Dr to Elmwood Drive. The roadway is approximately 687 feet in length. This Project Area is zoned C2, regional commercial and is located within an 80-foot-wide platted right-of-way. The roadway corridor was constructed in 1998 as part of the “1998 MNDOT T.H. 210 to T.H. 371 Project Area.” The project included construction of gravity sanitary sewer, watermain and urban roadway section.

This section of Forthun Road is 33’ wide with two-16.50’ driving lanes and a 10’ trail. The pavement section consists of 3.5” bituminous and 6” of class 6 base. This roadway does not meet the City standard of a 10-ton roadway. In 2022 the roadway was given a PASER Rating of 4. The PASER evaluates the pavement condition regarding longitudinal and lateral cracking of the bituminous. Along with the cracking there are areas that consist of stripping of the bituminous approximately ½” in depth, patching, potholes, curb and trail area that need to be repaired and pedestrian ramps that need to be updated. The stripping has shown to move quickly through the entire bituminous section if not removed as signs of stripping starts.

There is a 10-foot trail that runs along the north side of the road that consists of 2” of bituminous and 4” of Class 5 base.

This area is served by a storm sewer system that was constructed as part of the 1998 MNDOT T.H. 210 to T.H. 371 Project Area.

This area is served by an 8” PVC sanitary sewer that was constructed as part of the 1998 MNDOT T.H. 210 to T.H. 371 Project Area. Televising has not been completed as part of this project so any issues with the pipe has not been determined. The manhole lids need repair and require new rings and castings.

Water doesn’t run the length of Forthun Road, only an 8” PVC passes through at intersection of Elmwood Drive that was constructed with the 1996 Watermain Extensions for Navillus Land Company. This area of watermain was not shown on the 2019 Watermain Fitting Review Report or the 2019 Hydrant Installation Year Review Report that needs corrective work or exploratory excavations.



Forthun Road West

This section of Forthun Road runs 570' west of the roundabout to 386' west of the roundabout. The roadway is approximately 286 feet in length. This Project Area is zoned C2, regional commercial and OS, office service and is located within a 66-foot-wide platted right-of-way. There is no trail associated with this road. The roadway corridor was constructed in 1999 as part of the "1999 Forthun Road Improvements Phase 2." The project included construction of gravity sanitary sewer, watermain and urban roadway section.

Forthun Road west is 36' wide with two-18' driving lanes. The pavement section consists of 3.5" bituminous and 3" of Class 5 base. This roadway does not meet the City standard of a 10-ton roadway. In 2022 the roadway was given a PASER Rating of 3. The PASER evaluates the pavement condition regarding longitudinal and lateral cracking of the bituminous. Along with the cracking there are areas that consist of stripping of the bituminous approximately 1/2" in depth, patching, curb damage and drainage issues in driveways. The stripping has shown to move quickly through the entire bituminous section if not removed as signs of stripping starts.

This area is served by a storm sewer system that was constructed as part of the 1999 Forthun Road Improvements Phase 2.

This area is served by an 8" PVC sanitary sewer that was constructed as part of the 1999 Forthun Road Improvements Phase 2. Televising has not been completed as part of this project, so any issues with the pipe have not been determined. The manhole lids need repair and require new rings and castings.

This area is also served by an 8" PVC watermain that was constructed as part of the 1999 Forthun Road Improvements Phase 2. This area of watermain was not shown on the 2019 Watermain Fitting Review Report or the 2019 Hydrant Installation Year Review Report that needs corrective work or exploratory excavations.



Edgewood Drive

This portion of Edgewood Drive runs 530' north of Woida Road to Novotny Road. The roadway is approximately 2,665 feet in length. This Project Area is zoned C2, regional commercial and is located within a 66-foot-wide platted right-of-way. There is no trail associated with this road. The roadway corridor was last improved in 2003 as part of the "2003 Edgewood Drive North Utility and Roadway Extension." The project included construction of a watermain and urban roadway section.

The section of Edgewood Drive north of Woida Road to Novotny is 36' wide with two-18' driving lanes. The pavement section consists of 3.5" bituminous and 5" of Class 5 base. This roadway does not meet the City standard of a 10-ton roadway. In 2022 the roadway was given a PASER Rating range of 5 to 6. The PASER evaluates the pavement condition regarding longitudinal and lateral cracking of the bituminous. Along with the cracking there are areas that consist of stripping of the bituminous approximately 1/2" in depth, significant potholes and breaking along the driveways. The stripping has shown to move quickly through the entire bituminous section if not removed as signs of stripping starts.

The stormwater system was constructed as part of the 2002 MN 371 Frontage Roads and Whispering Woods Lane Utility Improvements, 2003 Edgewood Drive North Utility & Roadway Extension

This area is served by a 10" PVC sanitary sewer that was constructed as part of the 2002 MN 371 Frontage Roads and Whispering Woods Lane Utility Improvements. Televising has not been completed as part of this project so any issues with the pipe has not been determined. The manhole lids need repair and require new rings and castings.

This area is also served by a 10" PVC watermain that was constructed as part of the 1979 Water Improvements Project. This area of watermain was not shown on the 2019 Watermain Fitting Review Report or the 2019 Hydrant Installation Year Review Report that needs corrective work or exploratory excavations.



Novotny Road

This portion of Novotny Road runs 300' west of T.H. 371 to T.H. 371. The roadway is approximately 300 feet in length. This Project Area is zoned C2, regional commercial and is located within an 80-foot-wide platted right-of-way. There is no trail associated with this road. The roadway corridor was last improved in 2003 as part of the "2003 Edgewood Drive North Utility and Roadway Extension." The project included construction of a watermain and urban roadway section.

The section of Novotny Road 300' west of TH 371 to TH 371 varies in width and includes a 14' and 10' driving lane heading west and 14' lane heading east along with a varying width median. The pavement section consists of 3.5" bituminous and 5" of Class 5 base. This roadway does not meet the City standard of a 10-ton roadway. In 2022 the roadway was given a PASER Rating of 6. The PASER evaluates the pavement condition regarding longitudinal and lateral cracking of the bituminous.

The stormwater system was constructed as part of the 2003 Edgewood Drive North Utility & Roadway Extension.

This area is served by a 10" PVC sanitary sewer that was constructed as part of the 2003 Edgewood Drive North Utility & Roadway Extension. Televising has not been completed as part of this project so any issues with the pipe has not been determined. The manhole lids need repair and require new rings and castings.

This area is also served by a 10" PVC watermain that was constructed as part of the 2003 Edgewood Drive North Utility & Roadway Extension. This area of watermain was not shown on the 2019 Watermain Fitting Review Report or the 2019 Hydrant Installation Year Review Report that needs corrective work or exploratory excavations.



Whispering Woods Lane

This section of Whispering Woods Lane runs from Dellwood Drive to Pearl Drive. The roadway is approximately 462 feet in length. This Project Area is zoned C2, regional commercial and is located within a 66-foot-wide platted right-of-way. There is no trail associated with this road. The roadway corridor was constructed in 2002 as part of the “2002 MN 371 Frontage Roads and Whispering Woods Lane Utility Improvements.” The project included construction of gravity sanitary sewer, watermain and urban roadway section.

Whispering Woods Lane is 32’ wide with two-16’ driving lanes. The pavement section consists of 3.5” bituminous and 5” of Class 5 base. This roadway does not meet the City standard of a 10-ton roadway. In 2022 the roadway was given a PASER Rating of 7. The PASER evaluates the pavement condition regarding longitudinal and lateral cracking of the bituminous. Along with the cracking there are areas that consist of potholes.

This area is served by a storm sewer system that was constructed as part of the 2002 MN 371 Frontage Roads and Whispering Woods Lane Utility Improvements.

This area is served by a 10” PVC sanitary sewer that was constructed as part of the 2002 MN 371 Frontage Roads and Whispering Woods Lane Utility Improvements. Televising has not been completed as part of this project, so any issues with the pipe has not been determined. The manhole lids need repair and require new rings and castings.

This area is also served by a 10” PVC watermain that was constructed as part of the 2002 MN 371 Frontage Roads and Whispering Woods Lane Utility Improvements. This area of watermain was not shown on the 2019 Watermain Fitting Review Report or the 2019 Hydrant Installation Year Review Report that needs corrective work or exploratory excavations.



Dellwood Drive

This portion of Dellwood Drive runs 430' north of Woida Road to Whispering Woods Lane. The roadway is approximately 430 feet in length. This Project Area is zoned C2, regional commercial and is located within a platted right-of-way that runs along T.H. 371. There is no trail associated with this road. The roadway corridor was last improved in 2002 as part of the "2002 MN 371 Frontage Roads and Whispering Woods Lane Utility Improvements." The project included construction of gravity sanitary sewer, watermain and urban roadway section.

The section of Dellwood Drive that runs 430' north of Woida Road to Whispering Woods Lane is 36' wide with two-18' driving lanes. The pavement section consists of 3.5" bituminous and 5" of Class 5 base. This roadway does not meet the City standard of a 10-ton roadway. In 2022 the roadway was given a PASER Rating of 6. The PASER evaluates the pavement condition regarding longitudinal and lateral cracking of the bituminous. Along with the cracking there are areas that consist of stripping of the bituminous approximately 1/2" in depth and cracking in cement. There is interest in a turn lane being added to Dellwood Drive into the Menards south entrance.

The stormwater system was constructed with the 2002 MN 371 Frontage Roads and Whispering Woods Lane Utility Improvements.

This area is served by a 10" PVC sanitary sewer that was constructed as part of the 2002 MN 371 Frontage Roads and Whispering Woods Lane Utility Improvements. Televising has not been completed as part of this project so any issues with the pipe has not been determined. The manhole lids need repair and require new rings and castings. There is a service manhole in front of the Firehouse Sub Property the City is having trouble cleaning. An additional manhole in the street is required for better cleaning. This will likely be an outside drop manhole. The City would also upsize the service line between the two manholes to an 8" instead on the existing 6" service.

This area is also served by a 10" PVC watermain that was constructed as part of the 2002 MN 371 Frontage Roads and Whispering Woods Lane Utility Improvements. This area of watermain was not shown on the 2019 Watermain Fitting Review Report or the 2019 Hydrant Installation Year Review Report that needs corrective work or exploratory excavations.



Other Improvements

Garrison Road

This section of Garrison Road runs from Elder Drive to Elmwood Drive. It is a private road that is 613 feet in length. This Project Area is zoned C2, regional commercial and is located within an 80-foot-wide platted right-of-way. The roadway was updated this year through the Copeland Mill & Overlay Project.

Garrison Road is 33' wide with two-16.50' driving lanes. The pavement section consists of 3.5" bituminous and 6" of class 6 base. Garrison Road was last improved in 2023 with the Copeland Mill & Overlay Project. During this project, the City reached out to each property owner and asked them to bring their ADA facilities into compliance. The property south of Garrison Road did bring their ADA sidewalk and PED ramp into compliance not the north property did not. The trail and PED ramps were not constructed to meet ADA compliance at the time of initial construction, and they need to be corrected.

This road features a 10' trail that runs along the north side. The trail and pedestrian ramps aren't ADA compliant and are in need of replacement.

This area is served by a storm sewer system that was constructed as part of the 1998 MNDOT T.H. 210 to T.H. 371 Project Area. The catch basins are in need of repair for this road.

This area is served by an 8" PVC sanitary sewer that was constructed as part of the 1998 MNDOT T.H. 210 to T.H. 371 Project Area. Televising has not been completed as part of this project, so any issues with the pipe have not been determined. The manhole lids need repair and require new rings and castings.

This area is also served by an 8" PVC watermain that was constructed as part of the 1998 MNDOT T.H. 210 to T.H. 371 Project Area.

Elder Drive Trail Improvements

The trail located along Elder Drive that extends from Glory Road to Foley Road is approximately 2,100 ft in length. This section of trail was constructed in 1998 and is in need of repair. In 2017, the ADA Transition Plan indicated the trail and PED ramps do not meet current ADA standards. The pavement consists of cracking and crack sealing. The trail is rounded on the edges in places and does not meet the minimum 10' width due to the rounding.

PROPOSED IMPROVEMENTS

Residential Mill & Overlay

Jepson Road

In 2022, Jepson Road was rated a 7 on the PACER scale. This means that the road is beginning to show signs of aging and needs maintenance. Jepson Road has areas of bituminous that are stripping at approximately ½" in depth. When the upper surface layer (1"-2") of the pavement begins to deteriorate, the Mill and Overlay process is recommended to remove the stripping so it does not continue through the remaining bituminous.

The benefits of the Mill and Overlay process include the reduction of aging, transverse and longitudinal cracking and stripping at the surface. This allows for an extension of pavement life, typically 10-15 years with proper maintenance. The Mill and Overlay process consists of milling the pavement to a uniform depth, depending on the extent of the surface distresses. This creates an even surface that new pavement is overlaid on to assure a consistent thickness.

Jepson Road will be improved utilizing the Mill and Overlay process. The top 2" of bituminous will be milled in order to remove the cracking and stripping appearing on this road and 2" of new bituminous will be overlaid on top of the even surface.

Sanitary sewer improvements along Jepson Road include removal and replacement of the sanitary sewer manhole lid, castings, and rings.

Watermain improvements include restoration of the fire hydrant on the west end of the cul-de-sac, as it is the original hydrant for the road. In 2019 the Watermain Fitting Review Report was completed and acknowledged that the watermain fittings on Jepson Road need to be reviewed. A water main exploratory excavation needs to be completed on the west end of the road to determine the type of fitting and if it needs to be replaced.

Other improvements to Jepson Road include installing new pavement markings.

Proposed improvements to Jepson Road are shown on the typical section pages.

Kingwood Drive

In 2022, Kingwood Drive was rated a range of 5 to 7 on the PACER scale. This means that the road needs rehabilitation. Stripping is moderate to severe; block cracking is appearing, and longitudinal cracks are beginning to form near the edges. Kingwood Drive has areas of bituminous that are stripping at approximately ½" in depth. When the upper surface layer (1"-2") of the pavement begins to deteriorate, the Mill and Overlay process is recommended to remove the stripping so it does not continue through the remaining bituminous. The section of this road north of Parkwood Drive sees a lot of traffic and is in severe condition. FDR may be necessary on this road in order to keep the pavement life and less maintenance issues in the future.

The benefits of the Mill and Overlay process include the reduction of aging, transverse and longitudinal cracking and stripping at the surface. This allows for an extension of pavement life, typically 10-15 years with proper maintenance. The Mill and Overlay process consists of milling the pavement to a uniform depth, depending on the extent of the surface distresses. This creates an even surface that new pavement is overlaid on to assure a consistent thickness.

Kingwood Drive will be improved utilizing the Mill and Overlay process. The top 2" of bituminous will be milled in order to remove the cracking and stripping appearing on this road and 2" of new bituminous will be overlaid on top of the even surface.

Sanitary sewer improvements along Kingwood Drive include removal and replacement of the sanitary sewer manhole lids, castings, and rings.

Watermain improvements include restoration of 2 fire hydrants on the road, as they are the original hydrants for the road. In 2019 the Watermain Fitting Review Report was completed and acknowledged that the watermain fittings on Kingwood Drive need to be reviewed. A water main exploratory excavation needs to be completed on the road to determine the type of fittings and if they need to be replaced.

The trail that runs along Kingwood Drive connecting Loren Thompson Park to Interlacken Road is an extension of the road. This 55' long trail will be included in the Mill and Overlay process and restriped to assure pedestrian safety.

Other improvements to Kingwood Drive include replacing the signage and installing new pavements markings.

Proposed improvements to Kingwood Drive are shown on the typical section pages.

Knollwood Court

In 2022, Knollwood Court was rated a 7 on the PACER scale. This means that the road is beginning to show signs of aging and needs maintenance. Knollwood Court has areas of bituminous that are stripping at approximately 1/2" in depth. When the upper surface layer (1"-2") of the pavement begins to deteriorate, the Mill and Overlay process is recommended to remove the stripping so it does not continue through the remaining bituminous.

The benefits of the Mill and Overlay process include the reduction of aging, transverse and longitudinal cracking and stripping at the surface. This allows for an extension of pavement life, typically 10-15 years with proper maintenance. The Mill and Overlay process consists of milling the pavement to a uniform depth, depending on the extent of the surface distresses. This creates an even surface that new pavement is overlaid on to assure a consistent thickness.

Knollwood Court will be improved utilizing the Mill and Overlay process. The top 2" of bituminous will be milled in order to remove the cracking and stripping appearing on this road and 2" of new bituminous will be overlaid on top of the even surface.

Sanitary sewer improvements along Knollwood Court include removal and replacement of the sanitary sewer manhole lids, castings, and rings.

Watermain improvements include restoration of the fire hydrant at the cul-de-sac as it is the original hydrant for the road. In 2019 the Watermain Fitting Review Report was completed and acknowledged that the watermain fittings on Knollwood Court need to be reviewed. A water main exploratory excavation needs to be completed on the road to determine the type of fittings and if they need to be replaced.

Other improvements to Knollwood Court include installing new pavements markings.

Proposed improvements to Knollwood Court are shown on the typical section pages.

Fairfax Road

In 2022, Fairfax Road was rated a 7 on the PACER scale. This means that the road is beginning to show signs of aging and needs maintenance. Fairfax Road has areas of bituminous that are stripping at approximately 1 to 1 ½" in depth. When the upper surface layer (1"-2") of the pavement begins to deteriorate, the Mill and Overlay process is recommended to remove the stripping so it does not continue through the remaining bituminous.

The benefits of the Mill and Overlay process include the reduction of aging, transverse and longitudinal cracking and stripping at the surface. This allows for an extension of pavement life, typically 10-15 years with proper maintenance. The Mill and Overlay process consists of milling the pavement to a uniform depth, depending on the extent of the surface distresses. This creates an even surface that new pavement is overlaid on to assure a consistent thickness.

Fairfax Road will be improved utilizing the Mill and Overlay process. The top 2" of bituminous will be milled in order to remove the cracking and stripping appearing on this road and 2" of new bituminous will be overlaid on top of the even surface.

Sanitary sewer improvements along Fairfax Road include removal and replacement of the sanitary sewer manhole lids, castings, and rings.

Other improvements to Fairfax Road include replacing signage and installing new pavement markings.

Proposed improvements to Fairfax Road are shown on the typical section pages.

Fairfax Court

In 2022, Fairfax Court was rated a 7 on the PACER scale. This means that the road is beginning to show signs of aging and needs maintenance. Fairfax Court has areas of bituminous that are stripping at approximately ½" in depth. When the upper surface layer (1"-2") of the pavement begins to deteriorate, the Mill and Overlay process is recommended to remove the stripping so it does not continue through the remaining bituminous.

The benefits of the Mill and Overlay process include the reduction of aging, transverse and longitudinal cracking and stripping at the surface. This allows for an extension of pavement life, typically 10-15 years with proper maintenance. The Mill and Overlay process consists of milling the pavement to a uniform depth, depending on the extent of the surface distresses. This creates an even surface that new pavement is overlaid on to assure a consistent thickness.

Fairfax Court will be improved utilizing the Mill and Overlay process. The top 2" of bituminous will be milled in order to remove the cracking and stripping appearing on this road and 2" of new bituminous will be overlaid on top of the even surface.

Sanitary sewer improvements along Fairfax Court include removal and replacement of the sanitary sewer manhole lids, castings, and rings.

Other improvements to Fairfax Court include replacing signage and installing new pavement markings.

Proposed improvements to Fairfax Court are shown on the typical section pages.

Cottage Grove Drive

In 2022, Cottage Grove Drive was rated a range of 7 to 8 on the PACER scale. This means that the road is beginning to show signs of cracking and may need maintenance. Cottage Grove Drive has areas of bituminous that are stripping at approximately ½" in depth leading to the need for maintenance earlier to this road. When the upper surface layer (1"-2") of the pavement begins to deteriorate, the Mill and Overlay process is recommended to remove the stripping so it does not continue through the remaining bituminous.

The benefits of the Mill and Overlay process include the reduction of aging, transverse and longitudinal cracking and stripping at the surface. This allows for an extension of pavement life, typically 10-15 years with proper maintenance. The Mill and Overlay process consists of milling the pavement to a uniform depth, depending on the extent of the surface distresses. This creates an even surface that new pavement is overlaid on to assure a consistent thickness.

Cottage Grove Drive will be improved utilizing the Mill and Overlay process. The top 2" of bituminous will be milled in order to remove the cracking and stripping appearing on this road and 2" of new bituminous will be overlaid on top of the even surface.

Sanitary sewer improvements along Cottage Grove Drive include removal and replacement of the sanitary sewer manhole lids, castings, and rings.

Other improvements to Cottage Grove Drive include replacing signage and installing new pavements markings.

Proposed improvements to Cottage Grove Drive are shown on the typical section pages.

Northwoods Drive

In 2022, Northwoods Drive was rated a 7 on the PACER scale. This means that the road is beginning to show signs of aging and needs maintenance. Northwoods Drive has areas of bituminous that are stripping at approximately ½" in depth. When the upper surface layer (1"-2") of the pavement begins to deteriorate, the Mill and Overlay process is recommended to remove the stripping so it does not continue through the remaining bituminous.

The benefits of the Mill and Overlay process include the reduction of aging, transverse and longitudinal cracking and stripping at the surface. This allows for an extension of pavement life, typically 10-15 years with proper maintenance. The Mill and Overlay process consists of milling the pavement to a uniform depth, depending on the extent of the surface distresses. This creates an even surface that new pavement is overlaid on to assure a consistent thickness.

Northwoods Drive will be improved utilizing the Mill and Overlay process. The top 2" of bituminous will be milled in order to remove the cracking and stripping appearing on this road and 2" of new bituminous will be overlaid on top of the even surface.

Sanitary sewer improvements along Northwoods Drive include removal and replacement of the sanitary sewer manhole lids, castings, and rings.

Other improvements to Northwoods Drive include replacing signage and installing new pavements markings.

Proposed improvements to Northwoods Drive are shown on the typical section pages.

Camden Road

In 2022, Camden Road was rated a 7 on the PACER scale. This means that the road is beginning to show signs of aging and needs maintenance. Camden Road has areas of bituminous that are stripping at approximately ½” in depth. When the upper surface layer (1”-2”) of the pavement begins to deteriorate, the Mill and Overlay process is recommended to remove the stripping so it does not continue through the remaining bituminous.

The benefits of the Mill and Overlay process include the reduction of aging, transverse and longitudinal cracking and stripping at the surface. This allows for an extension of pavement life, typically 10-15 years with proper maintenance. The Mill and Overlay process consists of milling the pavement to a uniform depth, depending on the extent of the surface distresses. This creates an even surface that new pavement is overlaid on to assure a consistent thickness.

Camden Road will be improved utilizing the Mill and Overlay process. The top 2” of bituminous will be milled in order to remove the cracking and stripping appearing on this road and 2” of new bituminous will be overlaid on top of the even surface.

Sanitary sewer improvements along Camden Road include removal and replacement of the sanitary sewer manhole lids, castings, and rings.

Other improvements to Camden Road include replacing signage and installing new pavements markings.

Proposed improvements to Camden Road are shown on the typical section pages.

Kenwood Drive

In 2022, Kenwood Drive was rated a range of 6 to 7 on the PACER scale. This means that the road needs rehabilitation. Stripping is moderate to severe; block cracking is appearing, and longitudinal cracks are beginning to form near the edges. Kenwood Drive has areas of bituminous that are stripping at approximately ½” in depth. When the upper surface layer (1”-2”) of the pavement begins to deteriorate, the Mill and Overlay process is recommended to remove the stripping so it does not continue through the remaining bituminous.

The benefits of the Mill and Overlay process include the reduction of aging, transverse and longitudinal cracking and stripping at the surface. This allows for an extension of pavement life, typically 10-15 years with proper maintenance. The Mill and Overlay process consists of milling the pavement to a uniform depth, depending on the extent of the surface distresses. This creates an even surface that new pavement is overlaid on to assure a consistent thickness.

Kenwood Drive will be improved utilizing the Mill and Overlay process. The top 2” of bituminous will be milled in order to remove the cracking and stripping appearing on this road and 2” of new bituminous will be overlaid on top of the even surface.

Sanitary sewer improvements along Kenwood Drive include removal and replacement of the sanitary sewer manhole lids, castings, and rings.

In 2019 the Watermain Fitting Review Report was completed and acknowledged that the watermain fittings on Kenwood Drive need to be reviewed. A water main exploratory excavation needs to be completed on this road to determine the type of fittings and if they need to be replaced.

Other improvements to Kenwood Drive include replacing the signage and installing new pavements markings.

Proposed improvements to Kenwood Drive are shown on the typical section pages.

Residential Full Depth Reclamation

Interlacken Road

In 2022, Interlacken Road was rated a 5 on the PACER scale. This means that the road needs rehabilitation. Stripping is moderate to severe; block cracking is appearing, and longitudinal cracks are beginning to form near the edges. Interlacken Road has areas of bituminous that are stripping at approximately 1" in depth. Interlacken Road is proposed to be reconstructed utilizing full depth reclamation (FDR).

The benefits of the FDR process include the reduction of reflective cracking, longer pavement life (typically 20 years with proper maintenance), improved ride, and reduced maintenance costs. FDR uses a self-propelled pulverizing machine to grind the entire pavement section and a portion of the underlying gravel base material in place. This process destroys all existing pavement cracks and homogenizes the material into a usable aggregate base platform on which to pave a new bituminous surface.

FDR of the top 7" of the pavement and base section will be completed. After FDR is complete, 2" of material will be removed leaving a 5" reclaimed based. The reclaimed base will be compacted and 3.5" bituminous will be constructed in two separate lifts.

Sanitary sewer improvements along Interlacken Road include removal and replacement of the sanitary sewer manhole lid, castings, and rings.

Watermain improvements include restoration of the fire hydrant on the west end of the road, as it is the original hydrant for the road. In 2019 the Watermain Fitting Review Report was completed and acknowledged that the watermain fittings on Interlacken Road need to be reviewed. A water main exploratory excavation needs to be completed on the road to determine the type of fittings and if they need to be replaced.

The trail that runs along Interlacken Road is a 10' extension of the road. This trail will be included in the FDR process and restriped to assure pedestrian safety.

Other improvements to Interlacken Road include replacing existing driveways to the ROW line, installing new pavements markings, road signs, and removal and replacement of mailbox supports.

Proposed improvements to Interlacken Road are shown on the typical section pages.

Fairmont Court

In 2022, Fairmont Court was rated a 5 on the PACER scale. This means that the road needs rehabilitation. Stripping is moderate to severe; block cracking is appearing, and longitudinal cracks are beginning to form near the edges. Fairmont Court has areas of bituminous that are stripping at approximately 1" in depth. Fairmont Court is proposed to be reconstructed utilizing full depth reclamation (FDR).

The benefits of the FDR process include the reduction of reflective cracking, longer pavement life (typically 20 years with proper maintenance), improved ride, and reduced maintenance costs. FDR uses a self-propelled pulverizing machine to grind the entire pavement section and a portion of the underlying gravel base material in place. This process destroys all existing pavement cracks and homogenizes the material into a usable aggregate base platform on which to pave a new bituminous surface.

FDR of the top 8.5" of the pavement and base section will be completed. After FDR is complete, 3.5" of material will be removed leaving a 5" reclaimed base. The reclaimed base will be compacted and 3.5" bituminous will be constructed in two separate lifts.

Sanitary sewer improvements along Fairmont Court include removal and replacement of the sanitary sewer manhole lid, castings, and rings.

Other improvements to Fairmont Court include replacing existing driveways to the ROW line, installing new pavement markings, road signs, and removal and replacement of mailbox supports.

Proposed improvements to Fairmont Court are shown on the typical section pages.

Edmonton Road

In 2022, Edmonton Road was rated a 5 on the PACER scale. This means that the road needs rehabilitation. Stripping is moderate to severe; block cracking is appearing, and longitudinal cracks are beginning to form near the edges. Edmonton Road has areas of bituminous that are stripping at approximately 1" in depth. Edmonton Road is proposed to be reconstructed utilizing full depth reclamation (FDR).

The benefits of the FDR process include the reduction of reflective cracking, longer pavement life (typically 20 years with proper maintenance), improved ride, and reduced maintenance costs. FDR uses a self-propelled pulverizing machine to grind the entire pavement section and a portion of the underlying gravel base material in place. This process destroys all existing pavement cracks and homogenizes the material into a usable aggregate base platform on which to pave a new bituminous surface.

FDR of the top 7" of the pavement and base section will be completed. After FDR is complete, 2" of material will be removed leaving a 5" reclaimed base. The reclaimed base will be compacted and 3.5" bituminous will be constructed in two separate lifts.

Sanitary sewer improvements along Edmonton Road include removal and replacement of the sanitary sewer manhole lids, castings, and rings.

Other improvements to Edmonton Road include replacing existing driveways to the ROW line, installing new pavements markings, road signs, and removal and replacement of mailbox supports.

Proposed improvements to Edmonton Road are shown on the typical section pages.

Donald Street

In 2022, Donald Street was rated a 6 on the PACER scale. This means that the road needs rehabilitation. Stripping is moderate to severe; block cracking is appearing, and longitudinal cracks are beginning to form near the edges. Donald Street has areas of bituminous that are stripping at approximately 1" in depth and major potholes. Patching on this road is deteriorating. Donald Street is proposed to be reconstructed utilizing full depth reclamation (FDR).

The benefits of the FDR process include the reduction of reflective cracking, longer pavement life (typically 20 years with proper maintenance), improved ride, and reduced maintenance costs. FDR uses a self-propelled pulverizing machine to grind the entire pavement section and a portion of the underlying gravel base material in place. This process destroys all existing pavement cracks and homogenizes the material into a usable aggregate base platform on which to pave a new bituminous surface.

FDR of the top 6" of the pavement and base section will be completed. After FDR is complete, the reclaimed base will be compacted and 3.5" bituminous will be constructed in two separate lifts. The roadway corridor has drainage issues. Once a survey is completed, additional aggregate may be used to raise the elevation of the roadway. Ditching along the corridor may also be required to resolve the drainage issues.

In 2019 the Watermain Fitting Review Report was completed and acknowledged that the watermain fittings on Donald Street need to be reviewed. A water main exploratory excavation needs to be completed on the road to determine the type of fittings and if they need to be replaced.

Sanitary sewer improvements along Donald Street include removal and replacement of the sanitary sewer manhole lids, castings, and rings.

Other improvements to Donald Street include replacing existing driveways to the ROW line, installing new pavements markings, road signs, and removal and replacement of mailbox supports.

Proposed improvements to Donald Street are shown on the typical section pages.

Parkwood Drive

In 2022, Parkwood Drive was rated a 4 on the PACER scale. This means that the road is showing an extreme loss of aggregate, longitudinal cracking in the wheel path and heavy block cracking. This road needs structural improvements by maintenance. Parkwood Drive has areas of bituminous that are stripping at approximately 1" in depth, numerous potholes and patched areas. Patching on this road is deteriorating. Donald Street is proposed to be reconstructed utilizing full depth reclamation (FDR).

The benefits of the FDR process include the reduction of reflective cracking, longer pavement life (typically 20 years with proper maintenance), improved ride, and reduced maintenance

costs. FDR uses a self-propelled pulverizing machine to grind the entire pavement section and a portion of the underlying gravel base material in place. This process destroys all existing pavement cracks and homogenizes the material into a usable aggregate base platform on which to pave a new bituminous surface.

FDR of the top 7" of the pavement and base section will be completed. After FDR is complete, 2" of material will be removed leaving a 5" reclaimed based. The reclaimed base will be compacted and 3.5" bituminous will be constructed in two separate lifts.

Sanitary sewer improvements along Parkwood Drive include removal and replacement of the sanitary sewer manhole lids, castings, and rings.

In 2019 the Watermain Fitting Review Report was completed and acknowledged that the watermain fittings on this section of Parkwood Drive need to be reviewed. A water main exploratory excavation needs to be completed on this road to determine the type of fittings and if they need to be replaced.

Other improvements to Parkwood Drive include replacing signage and installing new pavements markings.

Proposed improvements to Parkwood Drive are shown on the typical section pages.

Knollwood Drive

In 2022, Knollwood Drive was rated a range of 4 to 6 on the PACER scale. This means that the road is showing an extreme loss of aggregate, longitudinal cracking in the wheel path and heavy block cracking. This road needs structural improvements by maintenance. Knollwood Drive has areas of bituminous that are stripping at approximately 1" in depth, numerous potholes, and patched areas. The road also has areas of pavement that are lower than the rest of the road. This section of Knollwood Drive is proposed to be reconstructed utilizing full depth reclamation (FDR).

The benefits of the FDR process include the reduction of reflective cracking, longer pavement life (typically 20 years with proper maintenance), improved ride, and reduced maintenance costs. FDR uses a self-propelled pulverizing machine to grind the entire pavement section and a portion of the underlying gravel base material in place. This process destroys all existing pavement cracks and homogenizes the material into a usable aggregate base platform on which to pave a new bituminous surface.

FDR of the top 8.5" of the pavement and base section will be completed in two passes. After FDR is complete, 3.5" of material will be removed leaving a 5" reclaimed based. The reclaimed base will be compacted and 3.5" bituminous will be constructed in two separate lifts. The road elevation may be slightly adjusted to allow for a more even travel surface.

Sanitary sewer improvements along Knollwood Drive include removal and replacement of the sanitary sewer manhole lids, castings, and rings.

In 2019 the Watermain Fitting Review Report was completed and acknowledged that the watermain fittings on Knollwood Drive need to be reviewed. A water main exploratory excavation needs to be completed on this road to determine the type of fittings and if they need to be replaced.

Other improvements to Knollwood Drive include replacing existing driveways to the ROW line, installing new pavements markings, road signs, and removal and replacement of mailbox supports.

Proposed improvements to Knollwood Drive are shown on the typical section pages.

Glory Road

In 2022, Glory Road was rated a 3 on the PACER scale. This means that the road is in poor condition and requires structural improvements. Alligator cracking is significant, and patching is deteriorating. This section of Glory Road is proposed to be reconstructed utilizing full depth reclamation (FDR).

The benefits of the FDR process include the reduction of reflective cracking, longer pavement life (typically 20 years with proper maintenance), improved ride, and reduced maintenance costs. FDR uses a self-propelled pulverizing machine to grind the entire pavement section and a portion of the underlying gravel base material in place. This process destroys all existing pavement cracks and homogenizes the material into a usable aggregate base platform on which to pave a new bituminous surface.

FDR of the top 8.5" of the pavement and base section will be completed. After FDR is complete, 3.5" of material will be removed leaving a 5" reclaimed based. The reclaimed base will be compacted and 3.5" bituminous will be constructed in two separate lifts.

Sanitary sewer improvements along Glory Road include removal and replacement of the sanitary sewer manhole lids, castings, and rings.

Other improvements to Glory Road include replacing existing driveways to the ROW line, installing new pavements markings and removal and replacement of mailbox supports.

Proposed improvements to Glory Road are shown on the typical section pages.

Commercial Full Depth Reclamation

Elmwood Drive

In 2022, Elmwood Drive was rated a 6 on the PACER scale. This means that the road needs rehabilitation. Stripping is moderate to severe; block cracking is appearing, and longitudinal cracks are beginning to form near the edges. Elmwood Drive has areas of bituminous that are stripping at approximately 1 ½"-2" in depth, deteriorating patching from construction entrances, curb issues and does not meet current City 10-ton design standards. The City of Baxter has determined that commercial and industrial roadways should meet 10-ton design requirements to better handle heavy commercial traffic commonly associated with commercial and industrial development and provide long-term benefit to area property owners. This road is proposed to be reconstructed utilizing full depth reclamation (FDR) and curb replacement.

The benefits of the FDR process include the reduction of reflective cracking, longer pavement life (typically 20 years with proper maintenance), improved ride, reduced maintenance costs and a 10-ton design strength roadway, meeting City requirements. FDR uses a self-propelled pulverizing machine to grind the entire pavement section and a portion of the underlying gravel base material in place. This process destroys all existing pavement cracks and homogenizes the material into a usable aggregate base platform on which to pave a new bituminous surface.

FDR of the top 8.5" of the pavement and base section will be completed. The FDR material will need to be removed and 3.5" of subgrade material will be removed. This is done to maintain the current elevation of the roadway. Once the subgrade elevation is established, 6" of reclaim material will be placed and compacted. The bituminous will be placed 6" in depth and will be constructed in three separate lifts.

100% curb & gutter and concrete pavement/valley gutter replacement is proposed. Analysis indicates that when more than 50% of the curb & gutter requires replacement it is more economical to remove and replace all curb & gutter vs. selective removal and replacement.

Sanitary sewer improvements along Elmwood Drive include removal and replacement of the sanitary sewer manhole lids, castings, and rings.

Storm sewer improvements along Elmwood Drive include removal and replacement of the storm castings and curb boxes.

Other improvements to Elmwood Drive include replacing existing driveways to the ROW line, replacing signage, installing new pavements markings and removal and replacement of mailbox supports.

Proposed improvements to Elmwood Drive are shown on the typical section pages.

Forthun Road East Section

In 2022, this section of Forthun Road, east of the roundabout was rated a 4 on the PACER scale. This means that the road is showing an extreme loss of aggregate, longitudinal cracking in the wheel path and heavy block cracking. This road needs structural improvements by maintenance. Forthun Road has areas of bituminous that are stripping at approximately ½" in depth, numerous potholes and patched areas, curb and trail that needs repair and pedestrian ramps that need to be updated. This road does not meet current City 10-ton design standards. The City of Baxter has determined that commercial and industrial roadways should meet 10-ton design requirements to better handle heavy commercial traffic commonly associated with commercial and industrial development and provide long-term benefit to area property owners. This road is proposed to be reconstructed utilizing full depth reclamation (FDR) and curb replacement.

The benefits of the FDR process include the reduction of reflective cracking, longer pavement life (typically 20 years with proper maintenance), improved ride, reduced maintenance costs and a 10-ton design strength roadway, meeting City requirements. FDR uses a self-propelled pulverizing machine to grind the entire pavement section and a portion of the underlying gravel base material in place. This process destroys all existing pavement cracks and homogenizes the material into a usable aggregate base platform on which to pave a new bituminous surface.

FDR of the top 8.5" of the pavement and base section will be completed. The FDR material will need to be removed and 3.5" of subgrade material will be removed. This is done to maintain the current elevation of the roadway. Once the subgrade elevation is established, 6" of reclaim material will be placed and compacted. The bituminous will be placed 6" in depth and will be constructed in three separate lifts.

100% curb & gutter and concrete pavement/valley gutter replacement is proposed. Analysis indicates that when more than 50% of the curb & gutter requires replacement it is more economical to remove and replace all curb & gutter vs. selective removal and replacement.

Sanitary sewer improvements along this section of Forthun Road include removal and replacement of the sanitary sewer manhole lids, castings, and rings.

Storm sewer improvements along this section of Forthun Road include removal and replacement of the storm castings and curb boxes.

The bituminous trail is showing signs of failure and is nearing the end of its useful life. The pedestrian curb ramps are not ADA compliant. Reconstruction of the trail and pedestrian ramps is proposed. The trail will be updated by removing the 2" of bituminous. 1" of class will be added to the 4" of existing based. 3" of new bituminous will be placed on top of the base. New concrete pedestrian curb ramps will be constructed, and truncated domes installed at all City-street crossings. Truncated domes are not proposed at private driveway crossings per ADA requirements. The reconstruction of ADA compliant pedestrian curb ramps will improve traffic safety at these intersections.

Other improvements to Forthun Road include replacing existing driveways to the ROW line, replacing signage, installing new pavements markings and removal and replacement of mailbox supports.

Proposed improvements to Forthun Road are shown on the typical section pages.

Forthun Road West Section

In 2022, the section of Forthun Road west of the roundabout, was rated a 3 on the PACER scale. This means that the road is in poor condition and requires structural improvements. Forthun Road has areas of bituminous that are stripping at approximately 1/2" in depth, patching that is deteriorating, curb damage and drainage issues. This road does not meet current City 10-ton design standards. The City of Baxter has determined that commercial and industrial roadways should meet 10-ton design requirements to better handle heavy commercial traffic commonly associated with commercial and industrial development and provide long-term benefit to area property owners. This section of Forthun Road is proposed to be reconstructed utilizing full depth reclamation (FDR) and curb replacement.

The benefits of the FDR process include the reduction of reflective cracking, longer pavement life (typically 20 years with proper maintenance), improved ride, reduced maintenance costs and a 10-ton design strength roadway, meeting City requirements. FDR uses a self-propelled pulverizing machine to grind the entire pavement section and a portion of the underlying gravel base material in place. This process destroys all existing pavement cracks and homogenizes the material into a usable aggregate base platform on which to pave a new bituminous surface.

FDR of the top 6.5" of the pavement and base section will be completed. The FDR material will need to be removed and 5.5" of subgrade material will be removed. This is done to maintain the current elevation of the roadway. Once the subgrade elevation is established, 6" of reclaim material will be placed and compacted. The bituminous will be placed 6" in depth and will be constructed in three separate lifts.

100% curb & gutter and concrete pavement/valley gutter replacement is proposed. Analysis indicates that when more than 50% of the curb & gutter requires replacement it is more economical to remove and replace all curb & gutter vs. selective removal and replacement.

Sanitary sewer improvements along this section of Forthun Road include removal and replacement of the sanitary sewer manhole lids, castings, and rings.

Storm sewer improvements along this section of Forthun Road include removal and replacement of the storm castings and curb boxes.

Other improvements to Forthun Road include replacing existing driveways to the ROW line, replacing signage, installing new pavements markings and removal and replacement of mailbox supports.

Proposed improvements to Forthun Road are shown on the typical section pages.

Edgewood Drive

In 2022, this section of Edgewood Drive was rated a range of 5 to 6 on the PACER scale. This means that the road needs rehabilitation. Stripping is moderate to severe; block cracking is appearing, and longitudinal cracks are beginning to form near the edges. Edgewood Drive has areas of bituminous that are stripping at approximately ½" in depth, significant potholes and breaking along the driveways. This road does not meet current City 10-ton design standards. The City of Baxter has determined that commercial and industrial roadways should meet 10-ton design requirements to better handle heavy commercial traffic commonly associated with commercial and industrial development and provide long-term benefit to area property owners. This section of Edgewood Drive is proposed to be reconstructed utilizing full depth reclamation (FDR) and curb replacement.

The benefits of the FDR process include the reduction of reflective cracking, longer pavement life (typically 20 years with proper maintenance), improved ride, reduced maintenance costs and a 10-ton design strength roadway, meeting City requirements. FDR uses a self-propelled pulverizing machine to grind the entire pavement section and a portion of the underlying gravel base material in place. This process destroys all existing pavement cracks and homogenizes the material into a usable aggregate base platform on which to pave a new bituminous surface.

FDR of the top 8.5" of the pavement and base section will be completed. The FDR material will need to be removed and 3.5" of subgrade material will be removed. This is done to maintain the current elevation of the roadway. Once the subgrade elevation is established, 6" of reclaim material will be placed and compacted. The bituminous will be placed 6" in depth and will be constructed in three separate lifts.

100% curb & gutter and concrete pavement/valley gutter replacement is proposed. Analysis indicates that when more than 50% of the curb & gutter requires replacement it is more economical to remove and replace all curb & gutter vs. selective removal and replacement.

Sanitary sewer improvements along this section of Edgewood Drive include removal and replacement of the sanitary sewer manhole lids, castings, and rings.

Storm sewer improvements along this section of Edgewood Drive include removal and replacement of the storm castings and curb boxes.

Other improvements to Edgewood Drive include replacing existing driveways to the ROW line, replacing signage, installing new pavements markings and removal and replacement of mailbox supports.

Proposed improvements to Edgewood Drive are shown on the typical section pages.

Novotny Road

In 2022, this section of Novotny Road was rated a 6 on the PACER scale. This means that the road needs rehabilitation. Stripping is moderate to severe; block cracking is appearing, and longitudinal cracks are beginning to form near the edges. Novotny Road has areas of bituminous that are stripping at approximately 1/2" in depth and does not meet current City 10-ton design standards. The City of Baxter has determined that commercial and industrial roadways should meet 10-ton design requirements to better handle heavy commercial traffic commonly associated with commercial and industrial development and provide long-term benefit to area property owners. This road is proposed to be reconstructed utilizing full depth reclamation (FDR) and curb replacement.

The benefits of the FDR process include the reduction of reflective cracking, longer pavement life (typically 20 years with proper maintenance), improved ride, reduced maintenance costs and a 10-ton design strength roadway, meeting City requirements. FDR uses a self-propelled pulverizing machine to grind the entire pavement section and a portion of the underlying gravel base material in place. This process destroys all existing pavement cracks and homogenizes the material into a usable aggregate base platform on which to pave a new bituminous surface.

FDR of the top 8.5" of the pavement and base section will be completed. The FDR material will need to be removed and 3.5" of subgrade material will be removed. This is done to maintain the current elevation of the roadway. Once the subgrade elevation is established, 6" of reclaim material will be placed and compacted. The bituminous will be placed 6" in depth and will be constructed in three separate lifts.

100% curb & gutter and concrete pavement/valley gutter replacement is proposed. Analysis indicates that when more than 50% of the curb & gutter requires replacement it is more economical to remove and replace all curb & gutter vs. selective removal and replacement. The median will remain in place.

Sanitary sewer improvements along this section of Novotny Road include removal and replacement of the sanitary sewer manhole lids, castings, and rings.

Storm sewer improvements along this section of Novotny Road include removal and replacement of the storm manhole lids, castings and curb boxes.

Other improvements to Novotny Road include replacing signage and installing new pavements markings.

Proposed improvements to Novotny Road are shown on the typical section pages.

Whispering Woods Lane

In 2022, this section of Whispering Woods Lane was rated a 7 on the PACER scale. This means that the road is beginning to show signs of aging and needs maintenance. Whispering

Woods Lane has areas of bituminous that are stripping at approximately ½" in depth, numerous potholes and does not meet current City 10-ton design standards. The City of Baxter has determined that commercial and industrial roadways should meet 10-ton design requirements to better handle heavy commercial traffic commonly associated with commercial and industrial development and provide long-term benefit to area property owners. This road is proposed to be reconstructed utilizing full depth reclamation (FDR) and curb replacement.

The benefits of the FDR process include the reduction of reflective cracking, longer pavement life (typically 20 years with proper maintenance), improved ride, reduced maintenance costs and a 10-ton design strength roadway, meeting City requirements. FDR uses a self-propelled pulverizing machine to grind the entire pavement section and a portion of the underlying gravel base material in place. This process destroys all existing pavement cracks and homogenizes the material into a usable aggregate base platform on which to pave a new bituminous surface.

FDR of the top 8.5" of the pavement and base section will be completed. The FDR material will need to be removed and 3.5" of subgrade material will be removed. This is done to maintain the current elevation of the roadway. Once the subgrade elevation is established, 6" of reclaim material will be placed and compacted. The bituminous will be placed 6" in depth and will be constructed in three separate lifts.

100% curb & gutter and concrete pavement/valley gutter replacement is proposed. Analysis indicates that when more than 50% of the curb & gutter requires replacement it is more economical to remove and replace all curb & gutter vs. selective removal and replacement.

Sanitary sewer improvements along this section of Whispering Woods Lane include removal and replacement of the sanitary sewer manhole lids, castings, and rings.

Storm sewer improvements along this section of Whispering Woods Lane include removal and replacement of the storm castings and curb boxes.

Other improvements to Whispering Woods Lane include replacing existing driveways to the ROW line, replacing signage, installing new pavements markings and removal and replacement of mailbox supports.

Proposed improvements to Whispering Woods Lane are shown on the typical section pages.

Dellwood Drive

In 2022, this section of Dellwood Drive was rated a 6 on the PACER scale. This means that the road needs rehabilitation. Stripping is moderate to severe; block cracking is appearing, and longitudinal cracks are beginning to form near the edges. Dellwood Drive has areas of bituminous that are stripping at approximately ½" in depth, cracking in the cement is forming and the road does not meet current City 10-ton design standards. The City of Baxter has determined that commercial and industrial roadways should meet 10-ton design requirements to better handle heavy commercial traffic commonly associated with commercial and industrial development and provide long-term benefit to area property owners. This road is proposed to be reconstructed utilizing full depth reclamation (FDR) and curb replacement.

The benefits of the FDR process include the reduction of reflective cracking, longer pavement life (typically 20 years with proper maintenance), improved ride, reduced maintenance costs and a 10-ton design strength roadway, meeting City requirements. FDR uses a self-propelled

pulverizing machine to grind the entire pavement section and a portion of the underlying gravel base material in place. This process destroys all existing pavement cracks and homogenizes the material into a usable aggregate base platform on which to pave a new bituminous surface.

FDR of the top 8.5" of the pavement and base section will be completed. The FDR material will need to be removed and 3.5" of subgrade material will be removed. This is done to maintain the current elevation of the roadway. Once the subgrade elevation is established, 6" of reclaim material will be placed and compacted. The bituminous will be placed 6" in depth and will be constructed in three separate lifts.

100% curb & gutter and concrete pavement/valley gutter replacement is proposed. Analysis indicates that when more than 50% of the curb & gutter requires replacement it is more economical to remove and replace all curb & gutter vs. selective removal and replacement. Sanitary sewer improvements along this section of Dellwood Drive include removal and replacement of the sanitary sewer manhole lids, castings, and rings.

Storm sewer improvements along this section of Dellwood Drive include removal and replacement of the storm manhole lids, castings and curb boxes.

Other improvements to Dellwood Drive include replacing existing driveways to the ROW line, replacing signage, installing new pavements markings and removal and replacement of mailbox supports. A turn lane is proposed to be added at the intersection for the Menards entrance. This is shown in the proposed typical section.

Proposed improvements to Dellwood Drive are shown on the typical section pages.

Other Improvements

Garrison Road Garrison Road Trail and City Utility Improvements

In 2023, Garrison Road was updated through the Copeland Mill & Overlay Project. This is a private road, and the city does not include it in the rehabilitation plan. However, the city had WIDSETH complete a pre- and post-construction evaluation of the road. This evaluation found that the PED ramps are in need of updating to be ADA compliant, the sanitary and storm sewer system utilities also require updating.

Sanitary sewer improvements were also noted in this pre and post construction evaluation. Improvements along Garrison Road include removal and replacement of the sanitary sewer manhole lids, castings, and rings.

Sanitary sewer improvements were also noted in this pre and post construction evaluation. Storm sewer improvements along Garrison Road include removal and replacement of the storm castings and curb boxes.

Other improvements to Garrison Road include updating the trail and pedestrian ramps to be ADA compliant.

Elder Drive Trail Improvements

The approximate 2100' of trail and PED ramps are proposed to be reconstructed to bring this section in to ADA compliance. The trail and PED ramps are proposed to be remove and replaced along with curb and gutter replacement. The trail has a proposed typical section of 3" of bituminous and 5" of aggregate base.

Do Nothing Option

The do-nothing option was considered as an option to all proposed improvements. Doing nothing does not promote preserving the existing roadway network via pavement management and does not prepare for future long-term transportation plans being considered by the City.

ESTIMATED PROJECT COSTS

Estimated project costs for the proposed improvements are summarized below:

Mill & Overlay (Residential)

Assessable Roadway:	\$903,813
Sanitary Sewer:	\$108,040
Watermain:	\$125,945
City Trail	<u>\$2,066</u>
Subtotal:	\$1,139,864

Full Depth Reclamation (Residential)

Assessable Roadway:	\$1,251,049
Sanitary Sewer:	\$86,834
Watermain:	\$144,909
City Trail	<u>\$33,637</u>
Subtotal:	\$1,516,429

Full Depth Reclamation (Commercial)

Assessable Roadway:	\$1,968,235
City Roadway:	\$188,240
Storm Sewer:	\$323,517
Sanitary Sewer:	\$106,477
Watermain:	\$43,764
City Trail	<u>\$43,276</u>
Subtotal:	\$2,673,509

Other Improvements

Storm Sewer:	\$27,197
Sanitary Sewer:	\$10,315
Watermain:	\$3,306
City Trail	<u>\$293,282</u>
Subtotal:	\$334,100

ESTIMATED TOTAL PROJECT COST: \$5,663,902

The costs estimated herein are intended to convey a general and approximate picture of the costs that would probably be incurred today in carrying out the proposed work. Costs can vary widely depending upon many factors such as weather, economic conditions, size of project, and the workload of available contractors. Actual costs can only be determined by bidding the project. Detailed breakdowns of the estimates are provided in the Appendix. Costs estimated above include estimated construction costs, 15% contingencies, and soft costs including engineering, administration, financing, and legal fees.

The costs are calculated in 2023 dollars and need to be updated in the future based on the current economic conditions at the time the project is being considered.

The Engineer's Estimate is located in Appendix C.

PROJECT IMPLEMENTATION

Funding for improvements would be obtained from assessments to benefitted property owners and contributions from the City of Baxter. The estimated assessments included in this Report were calculated in accordance with City policy utilizing the Unit Assessment Method and Front Footage Assessment Method. A detailed description of the assessment methods utilized by the City of Baxter can be found in the most recent version of the “City of Baxter – Assessment Policy for Public Initiated Improvements.”

Based on the improvement type, project costs have been split into various project areas for the purposes of assessment and city cost calculation. Utilizing the previously mentioned methodologies, the following project allocations were determined.

Mill & Overlay (Residential)

In accordance with City policy, 100% of Mill & Overlay improvement costs, up to 26’ in width in “residential” areas, are assessed to the adjacent benefitting properties. Zoning districts included in this “residential” assessment category include RR, RS, R-1, R-1A, R-2, and R3. In accordance with past practice, the Unit Assessment Method was selected. The unit assessment was calculated by dividing the total project cost by the number of Equivalent Residential Unit (ERU) units in the project area.

Costs for the Sanitary Sewer, Watermain and Trail improvements are assumed to be paid by the City and not assessed.

Based on the above methodology and assumptions, the following were determined:

<u>Total Estimated Project Costs:</u>	<u>\$1,139,864</u>
City Sanitary Sewer (manhole lids, castings, and rings):	\$108,040
City Watermain (exploratory excavation and hydrant restoration):	\$125,945
City Trail:	<u>\$2,066</u>
Total Remaining Assessable Costs:	\$903,813
Total Equivalent Residential Units:	174
Estimated Cost per Unit:	\$5,206

In accordance with City policy, assessments for mill and overlay projects are collected over a 7-year term. The interest rate would be set at 1.5% above the True Interest Cost rate on the bond issue. Interest would also be added based on the number of days between when the assessment is adopted by the Council and the end of the calendar year in which the assessment is levied.

Full Depth Reclamation (Residential)

In accordance with City policy, 100% of full depth reclamation improvement costs, up to 26’ in width, in “residential” areas, are assessed to the adjacent benefitting properties. Zoning districts included in this “residential” assessment category include RR, RS, R-1, R-1A, R-2, and R3. In accordance with past practice, the Unit Assessment Method was selected. The unit assessment was calculated by dividing the total project cost by the number of Equivalent Residential Unit (ERU) units in the project area.

Costs for Storm Sewer, Sanitary Sewer, Watermain and Trail improvements are assumed to be paid by the City and not assessed.

Based on the above methodology and assumptions, the following were determined:

<u>Total Estimated Project Costs:</u>	<u>\$1,516,429</u>
City Sanitary Sewer (manhole lids, castings, and rings):	\$86,834
City Watermain (exploratory excavation and hydrant restoration):	\$144,909
City Trail:	<u>\$33,637</u>
Total Remaining Assessable Costs:	\$1,251,049
Total Equivalent Residential Units:	91
Estimated Cost per Unit:	\$13,748
ERU Adjustment (20%):	\$2,750
Final Estimated Cost per Unit	\$10,998

The City Council has received many comments from residents concerned with the increasing assessment costs for Full Depth Reclamation Projects. Not only are the assessment costs increasing, select roads are failing faster than anticipated. These select roads were chip sealed between the years 2014 to 2017. In 2013, the City did not intend to complete FDR projects in residential areas until the roads were approximately 35-40 years old and depending on traffic loading. Due to the stripping issue caused by the chip sealing these roads, FDR is required approximately 33% sooner than expected. This life span is based on the roads being mill & overlaid at 20-25 years of age. M&O typically extends the life of the road by approximately another 10-15 years. By reviewing the data above in two memos written to Council and open discussion in Council Work Sessions, the City has elected to give a 20% adjustment on the residential roads that have been chip sealed and are required to complete an FDR project to remove the stripping.

In accordance with City policy, assessments for full depth reclamation projects are collected over a 12-year term. The interest rate would be set at 1.5% above the True Interest Cost rate on the bond issue. Interest would also be added based on the number of days between when the assessment is adopted by the Council and the end of the calendar year in which the assessment is certified.

Full Depth Reclamation (Commercial)

In accordance with City policy, 100% of full depth reclamation improvement costs, up to 44' in width, in "commercial" areas, are assessed to the adjacent benefitting properties. Zoning districts included in this "commercial" assessment category include R-2, R-3, OS, C1, C2 and I. In accordance with past practice, the front footage assessment method was selected. Assessments are calculated by dividing the total assessable project cost by the total assessable frontage. The assessable frontage is based on the length as calculated at the building set back line which is 35' in commercial zoning districts.

Costs for roadway improvements in excess of 44' are considered to be City costs.

Costs for Storm Sewer, Sanitary Sewer, Watermain and Trail improvements are assumed to be paid by the City and not assessed.

Based on the above methodology and assumptions, the following were determined:

<u>Total Estimated Project Costs:</u>	<u>\$2,673,509</u>
City Roadway:	\$188,240
City Sanitary Sewer (manhole lids, castings, and rings):	\$7,334
City Storm Sewer (castings):	\$36,423
City Watermain (exploratory excavation and hydrant restoration):	\$6,160
City Trail:	<u>\$43,276</u>
Total Assessable Costs:	\$2,392,076

Total Estimated Frontage:	12,555
Estimated Cost per Foot:	\$190.53
City Costs:	\$1,237,311
Total Remaining Assessable Costs:	\$1,154,765
Total Assessable Area (SF):	4,137,708
Per Square Foot Assessment:	\$0.2791

In accordance with City policy, assessments for full depth reclamation projects are collected over a 12-year term. The interest rate would be set at 1.5% above the True Interest Cost rate on the bond issue. Interest would also be added based on the number of days between when the assessment is adopted by the Council and the end of the calendar year in which the assessment is certified.

Detailed assessment rate calculations and estimated individual assessments are included in Appendix C.

Other Improvements

In accordance with City policy, the breakdown of other associated costs is as follows.

<u>OTHER COMMERCIAL AREA IMPROVEMENTS</u>		
BAXTER PS LLC ASSESSABLE STORM SEWER:		\$27,197
BAXTER PS LLC ASSESSABLE SANITARY SEWER (50%):		\$5,158
AGREE LIMITED PARTNERSHIP ASSESSABLE SANITARY SEWER (50%):		\$5,158
BAXTER PS LLC ASSESSABLE WATER (50%):		\$1,653
AGREE LIMITED PARTNERSHIP ASSESSABLE WATER (50%):		\$1,653
CITY TRAIL:		\$293,282
TOTAL		\$334,100

CONCLUSIONS AND RECOMMENDATIONS

This Report has studied the feasibility of roadway improvements and other related work for the following roadway segments:

Roadways and projects reviewed in this Report include:

Residential Mill & Overlay:

- Jepson Road in its entirety.
- Kingwood Drive in its entirety.
- Knollwood Court in its entirety.
- Fairfax Road in its entirety.
- Fairfax Court in its entirety.
- Cottage Grove Drive in its entirety.
- Northwoods Drive in its entirety.
- Camden Road in its entirety.
- Kenwood Drive (Fairview Road to 1,590' north of Fairview Road)

Residential Full Depth Reclamation:

- Interlacken Road in its entirety.
- Fairmont Court in its entirety.
- Edmonton Road in its entirety.
- Donald Street in its entirety.
- Parkwood Drive (Mountain Ash Drive to Kingwood Drive)
- Knollwood Drive (Fairview Road to Donald Street)
- Glory Road (1,600' west of Isle Drive to 1,125' west of Isle Drive)

Commercial Full Depth Reclamation:

- Elmwood Drive in its entirety.
- Forthun Road (Elder Dr to Elmwood Drive)
- Forthun Road (570' west of roundabout to 386' west of roundabout)
- Edgewood Drive (530' north of Woida Road to Novotny Road)
- Novotny Road (300' west of TH 371 to TH 371)
- Whispering Woods Lane (Dellwood Drive to Pearl Drive)
- Dellwood Drive (430' north of Woida Road to Whispering Woods Lane)

Other Improvements

- Garrison Road Trail and City Utility Improvements
- Elder Drive Trail Improvements

The total cost of all improvements is estimated at \$5,663,902.

Residential Area – Mill & Overlay

The mill & overlay residential area includes the mentioned roads. In accordance with the 2021 Pavement Management Plan, Mill & Overlay is the recommended pavement maintenance technique. Other improvements include manhole and casting replacements, watermain exploratory excavation, and hydrant restoration.

Assessments were calculated using the Unit Assessment Method and are estimated to be \$5,206 per ERU.

The Mill & Overlay cost summary is as follows:

<u>Total Estimated Project Cost:</u>	<u>\$1,139,864</u>
City Costs:	\$236,051
Assessable Project Costs:	\$903,813
Benefiting Property Assessments:	\$881,218
City Property Assessments:	\$22,595
Total Estimated City Cost (City Costs + Assessments):	\$258,646

Residential Area - Full Depth Reclamation

The residential FDR area includes the mentioned roads. In accordance with the 2021 Pavement Management Plan, FDR is the recommended reconstruction technique. Other improvements include manhole and casting replacements and watermain exploratory excavation.

Assessments were calculated using the Unit Assessment Method with a 20% discount and are estimated to be \$10,998 per ERU.

The residential FDR cost summary is as follows:

<u>Total Estimated Project Cost:</u>	<u>\$1,516,429</u>
City Costs:	\$265,380
Assessable Project Costs:	\$1,251,049
Benefiting Property Assessments:	\$932,100
City Property Assessments:	\$68,739
City Provided 20% Adjustment:	\$250,209
Total Estimated City Cost (City Costs + Assessments):	\$584,328

Commercial Area - Full Depth Reclamation

The commercial FDR area includes the mentioned roads. In accordance with the 2021 Pavement Management Plan, FDR is the recommended reconstruction technique. Other improvements include manhole and casting replacements, trail, and crossings renovations to be ADA compliant, and replacement of curb and gutter.

Assessments were calculated using the Frontage Assessment Method and are estimated to be \$190.53 per foot and converting that into a square foot cost per assessable lot estimated to be \$0.2791 per square foot.

The FDR cost summary is as follows:

<u>Total Estimated Project Cost:</u>	\$2,673,509
City Costs:	\$281,433
Assessable Project Costs:	\$2,392,076
Benefiting Property Assessments:	\$1,154,765
City Frontage Contributions:	\$955,878
Total Estimated City Cost (City Costs + Assessments):	\$1,237,311

Other Improvements

Total Estimated City Cost:	\$334,100
-----------------------------------	------------------

Total Project Area Cost Summary

Estimated Total Project Cost:	\$5,663,902
--------------------------------------	--------------------

Estimated Assessable Project Costs

Benefiting Property Assessments:	\$3,359,075	59%
City of Baxter Frontage Contribution:	\$1,228,684	

City Cost Summary

City Roadway:	\$188,240	
Trail:	\$372,261	
Storm Sewer:	\$36,423	
Sanitary Sewer:	\$202,207	
Water:	\$277,013	
City Assessment:	\$1,228,683	
Total Estimated City Cost:	\$2,304,827	41%

In conclusion, we believe the proposed improvements are feasible and we do not foresee any major problems other than normal inconveniences associated with construction such as noise, and traffic disturbance. These situations would be temporary in nature, and we would anticipate the construction would last approximately 3 months depending on the contractor, weather, and other factors.

We recommend the City proceed as follows:

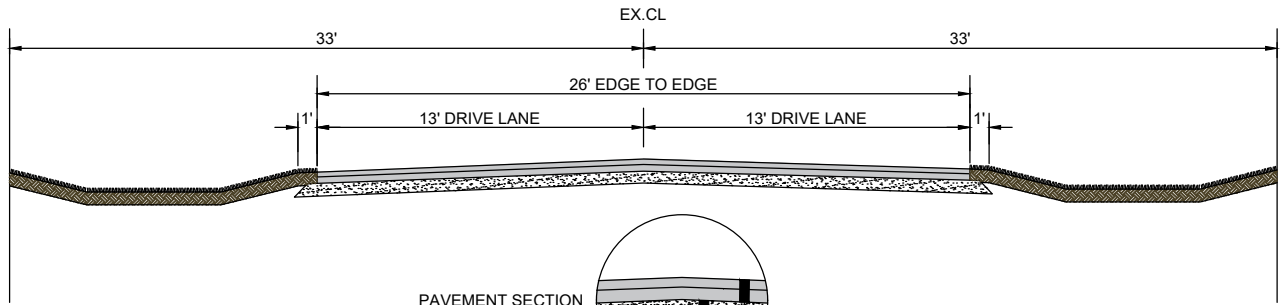
1. Utilities Commission review of feasibility report, plans, and specifications.
2. City Council review and approval of feasibility report and plans and specifications.
3. Advertise the project for public bidding.
4. Hold Improvement Hearing.
5. Review bids and update project costs and assessments.
6. Prepare final costs and assessments and schedule the Assessment Hearing.
7. Conduct Assessment Hearing and adopt assessment roles.
8. Award the construction contract.
9. Construction of the project.

APPENDICES

- Appendix A
 - Existing Typical Section Sheets
- Appendix B
 - Proposed Typical Section Sheets
- Appendix C
 - Engineers Estimate and Assessment Calculations
- Appendix D
 - Project Schedule
- Appendix E
 - Reevaluated Roads

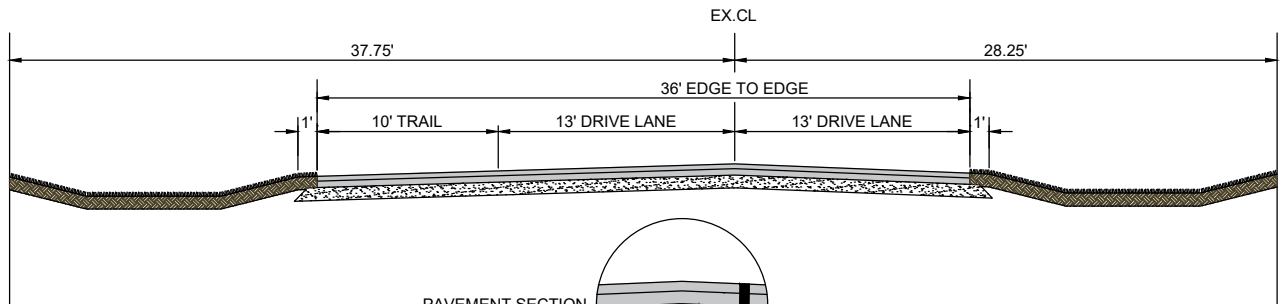
Appendix A

Existing Typical Section Sheets



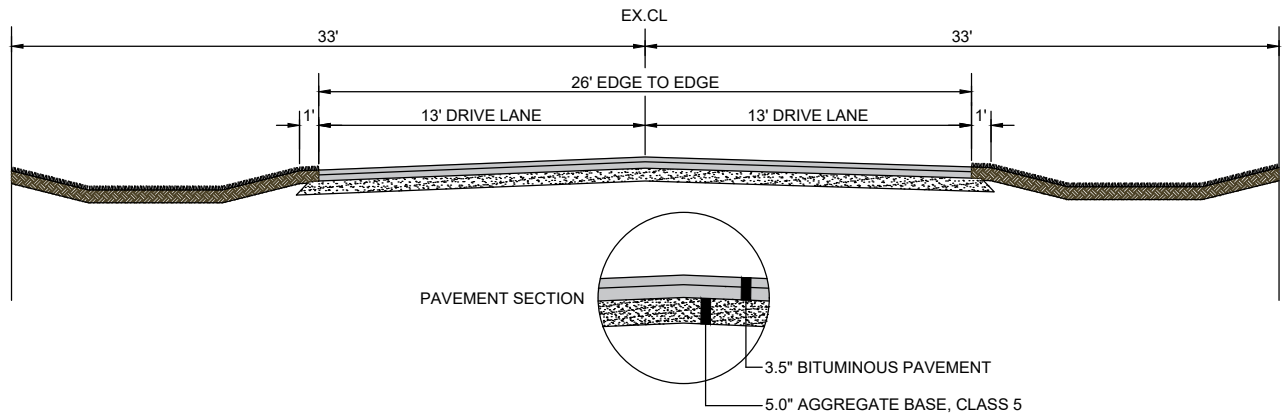
EXISTING TYPICAL SECTION

JEPSON ROAD, KINGWOOD
DRIVE, KNOLLWOOD COURT,



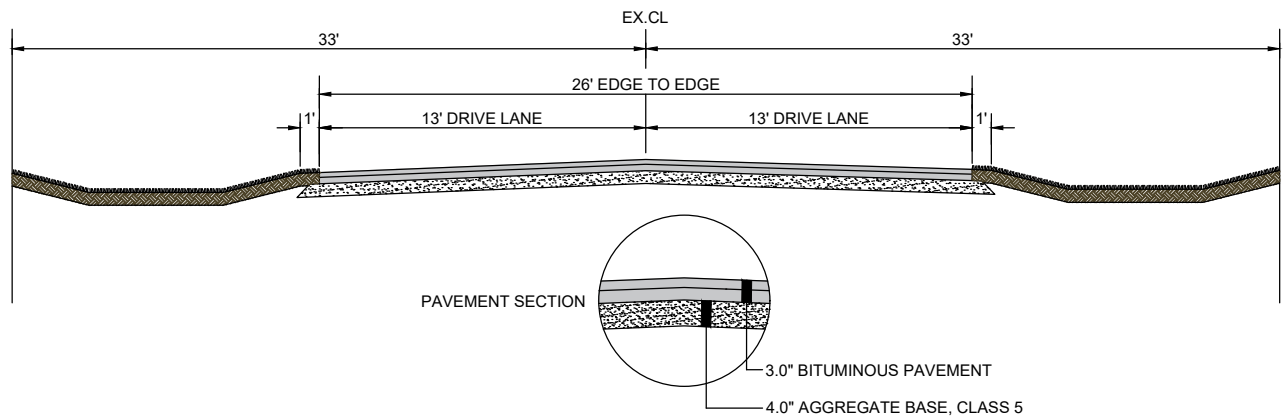
EXISTING TYPICAL SECTION

INTERLACKEN ROAD



EXISTING TYPICAL SECTION

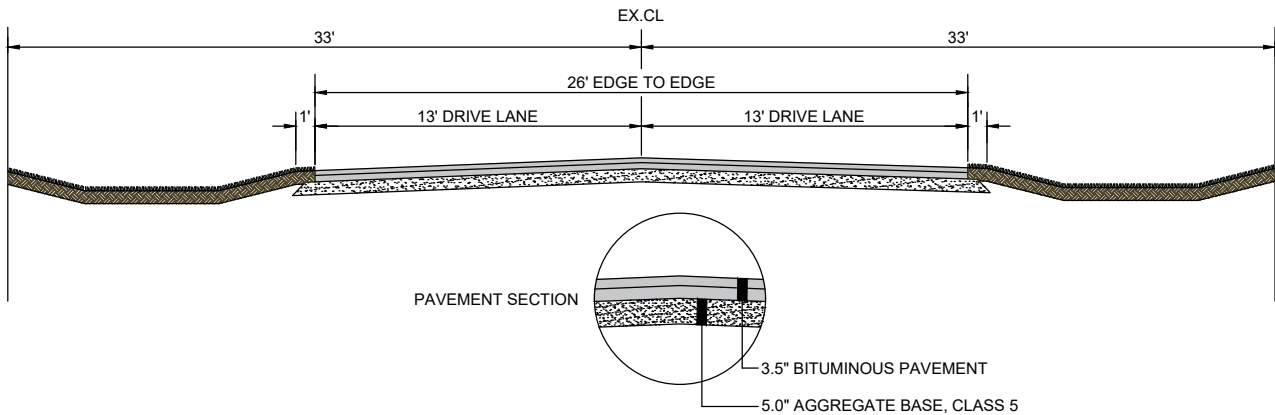
FAIRFAX ROAD, FAIRFAX COURT,
FAIRMONT COURT, KENWOOD DRIVE,
KNOLLWOOD DRIVE



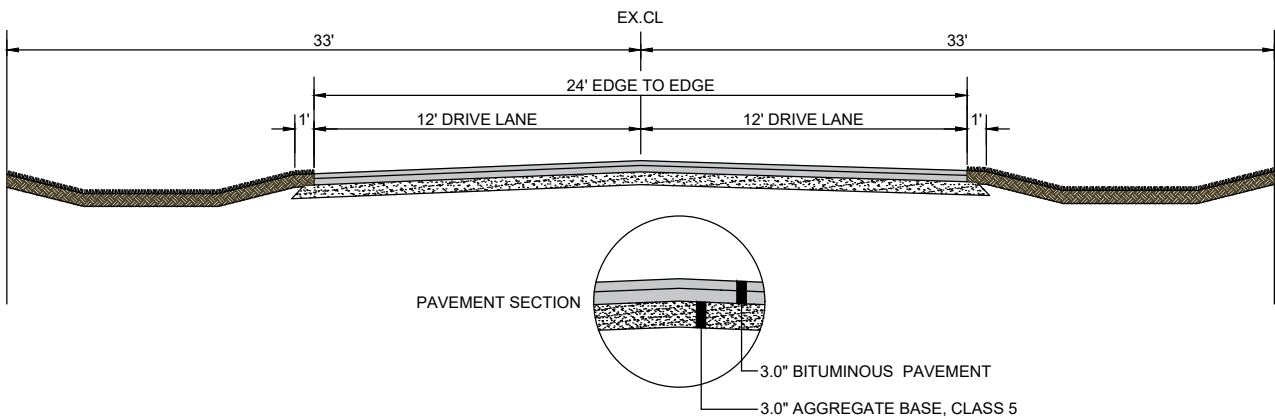
EXISTING TYPICAL SECTION

EDMONTON ROAD, COTTAGE GROVE
DRIVE, NORTHWOODS DRIVE, CAMDEN
ROAD, PARKWOOD DRIVE

DATE	REV#	REVISIONS DESCRIPTION	BY

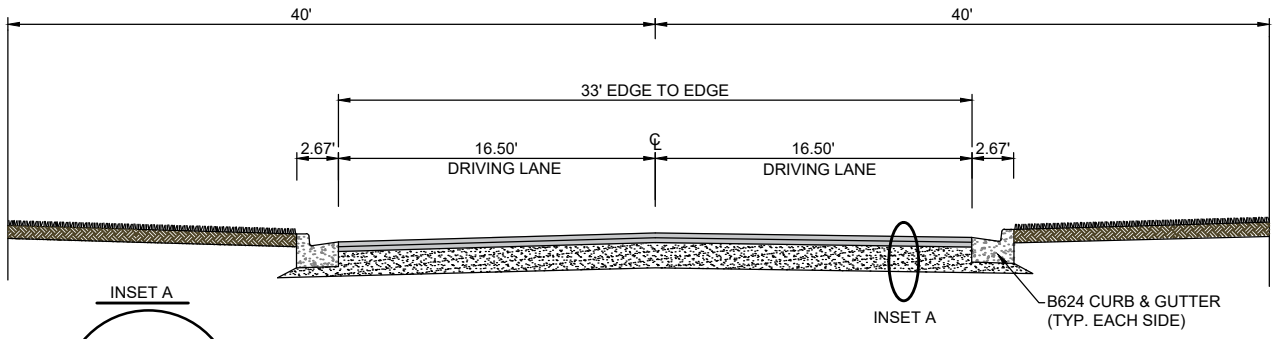


EXISTING TYPICAL SECTION
GLORY ROAD



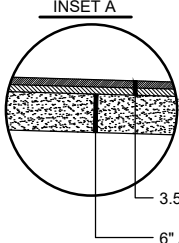
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DONALD STREET

DATE	REV#	REVISIONS DESCRIPTION	BY

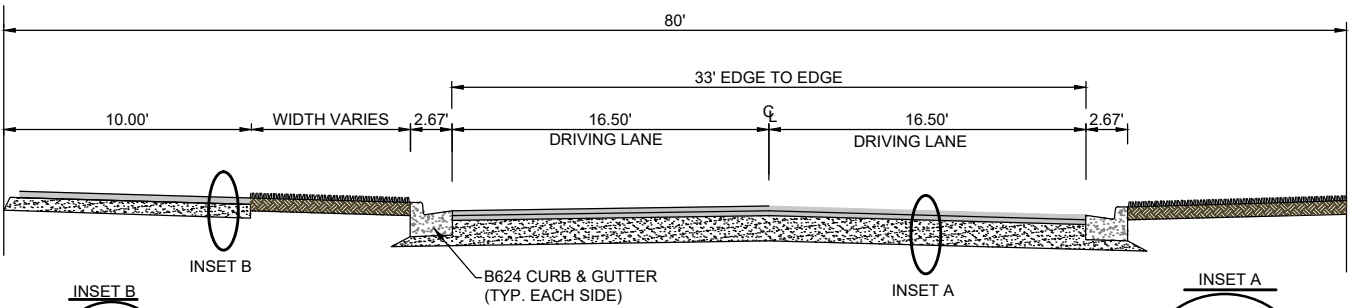


EXISTING TYPICAL SECTION

ELMWOOD DRIVE

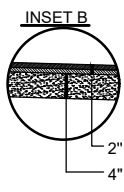


3.5" BITUMINOUS PAVEMENT
6" AGGREGATE BASE CLASS 6

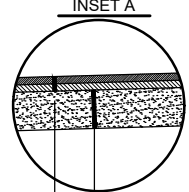


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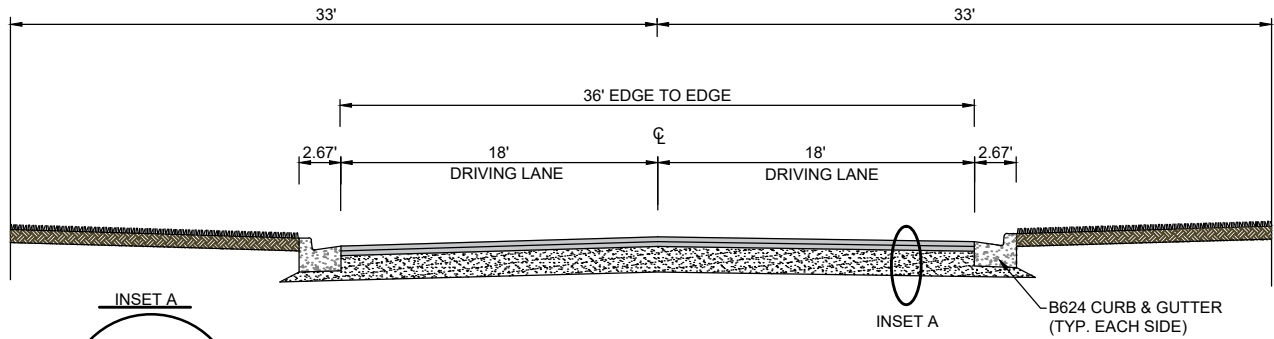
FORTHUN ROAD EAST



2" BITUMINOUS PAVEMENT
4" AGGREGATE BASE CLASS 5

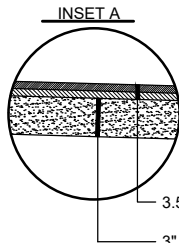


3.5" BITUMINOUS PAVEMENT
6" AGGREGATE BASE CLASS 6



EXISTING TYPICAL SECTION

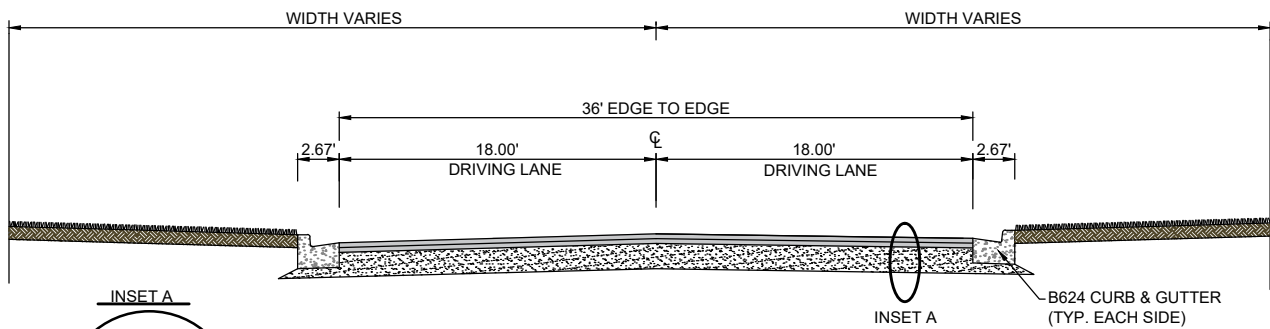
FORTHUN ROAD WEST



3.5" BITUMINOUS PAVEMENT
3" AGGREGATE BASE CLASS 5

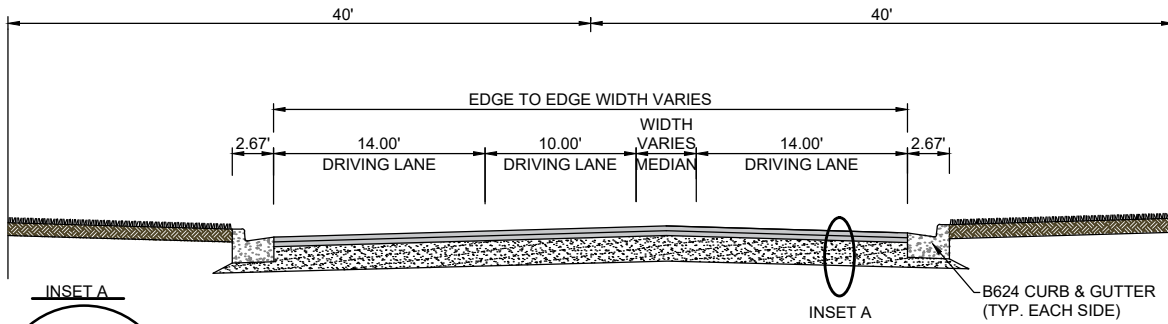
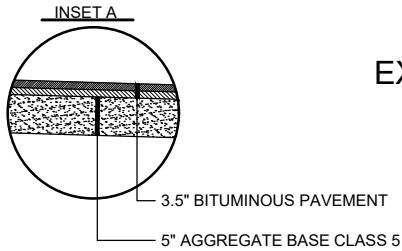
DATE	REV#	REVISIONS DESCRIPTION	BY

DATE: JUNE, 2023
SCALE: AS SHOWN
DRAWN BY: TJS
CHECKED BY: ADB
JOB NUMBER: 2023-10353



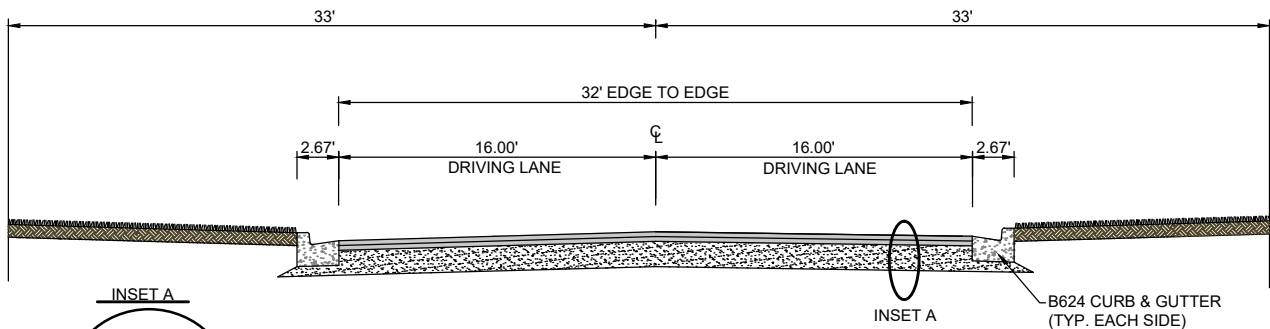
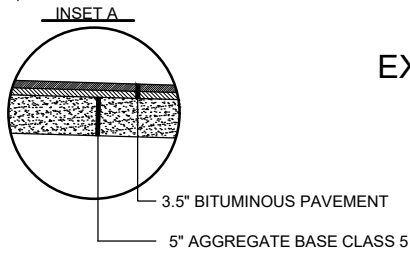
EXISTING TYPICAL SECTION

EDGEWOOD DRIVE,
DELLWOOD DRIVE



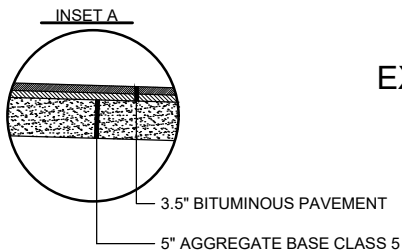
EXISTING TYPICAL SECTION

NOVOTNY ROAD



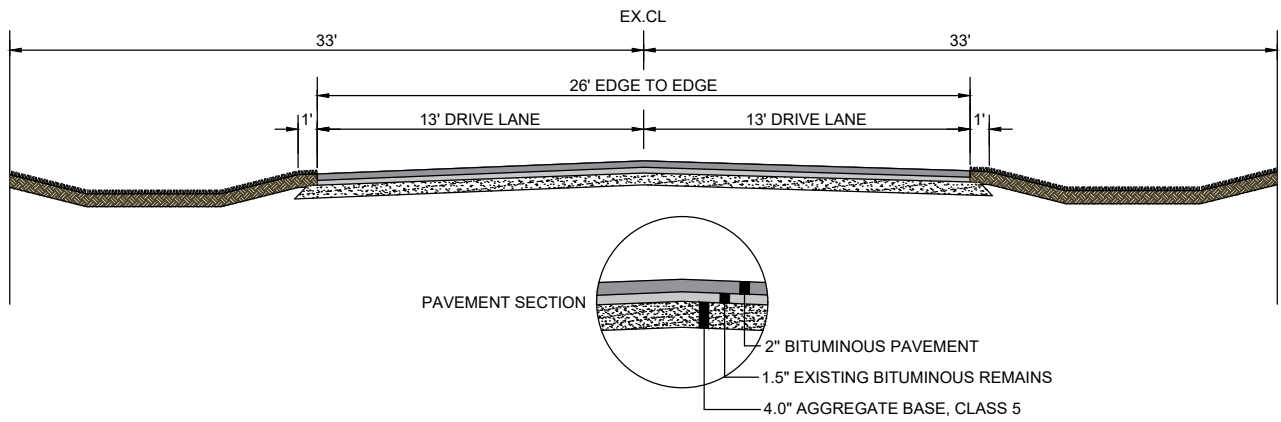
EXISTING TYPICAL SECTION

WHISPERING WOODS LANE



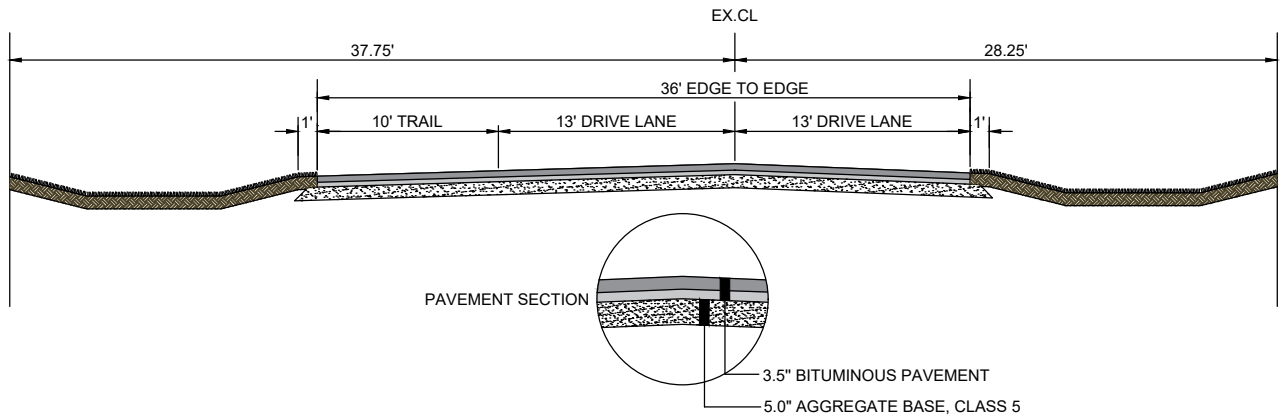
Appendix B

Proposed Typical Section Sheets



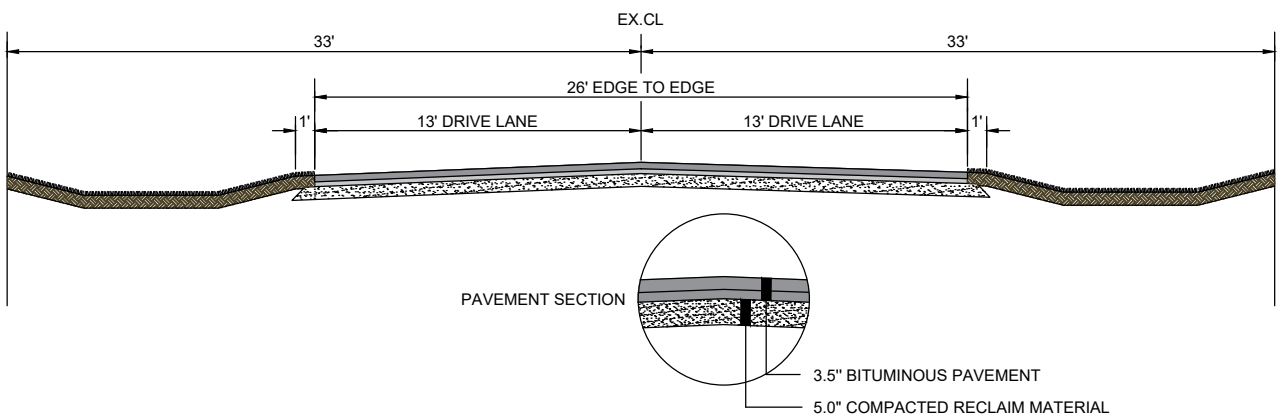
PROPOSED MILL AND OVERLAY TYPICAL SECTION

JEPSON ROAD, KINGWOOD
DRIVE, KNOLLWOOD COURT,



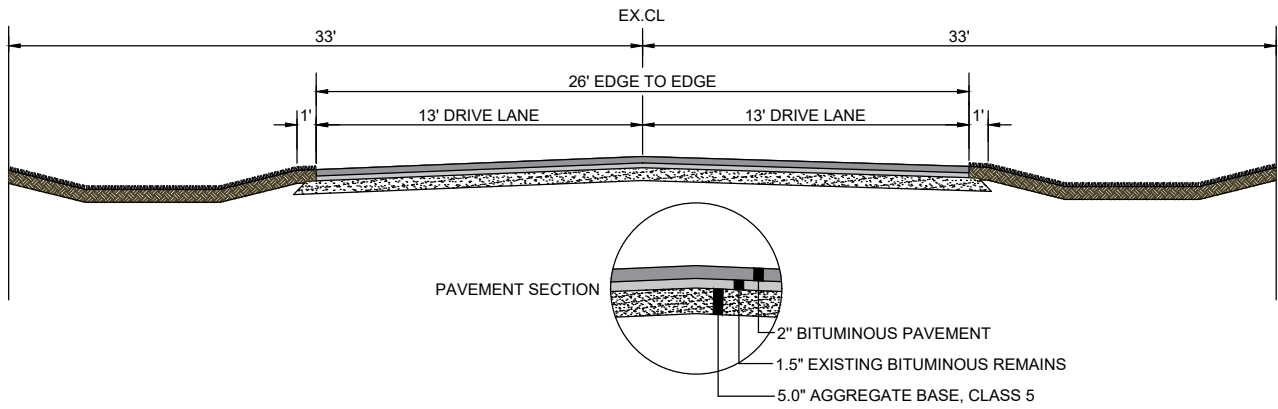
PROPOSED FULL DEPTH RECLAMATION TYPICAL SECTION

INTERLACKEN ROAD



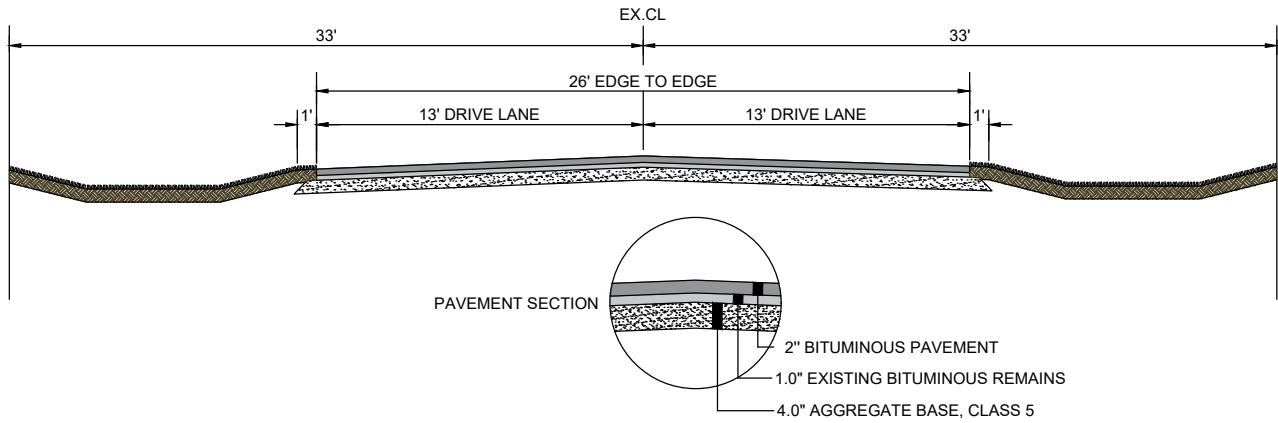
PROPOSED FULL DEPTH RECLAMATION TYPICAL SECTION

GLORY ROAD, KNOLLWOOD
DRIVE, FAIRMONT COURT,
DONALD STREET,
EDMONTON ROAD



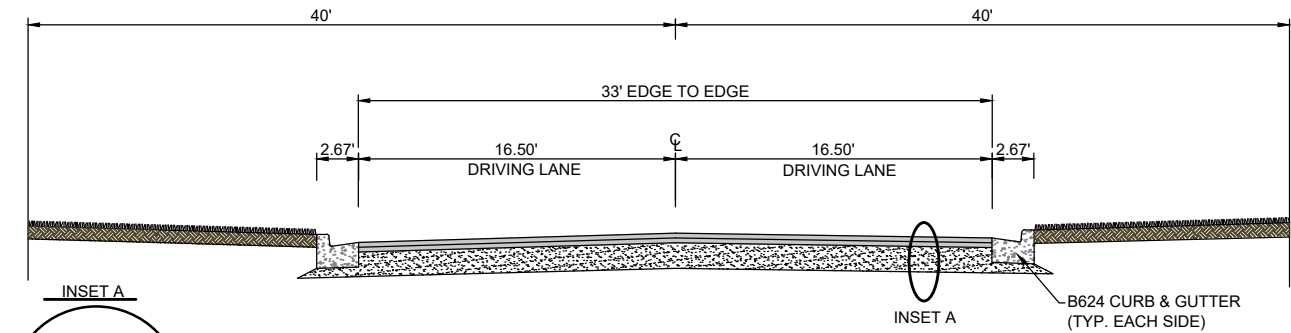
PROPOSED MILL AND OVERLAY TYPICAL SECTION

FAIRFAX ROAD, FAIRFAX COURT,
KENWOOD DRIVE

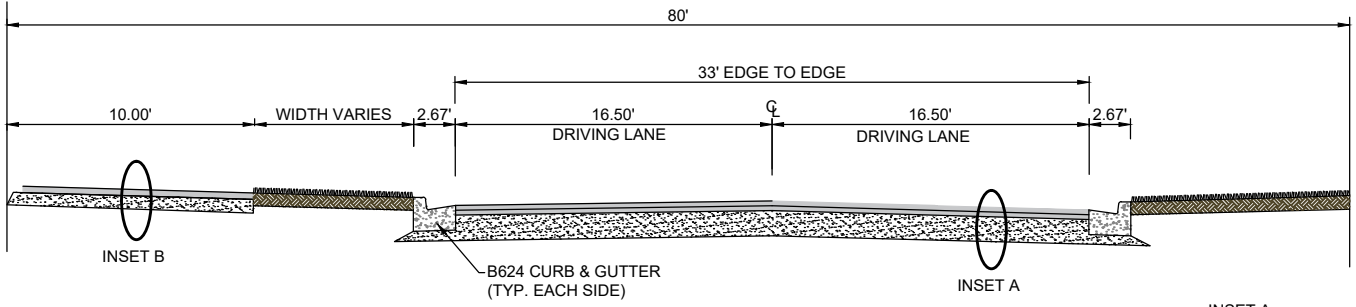
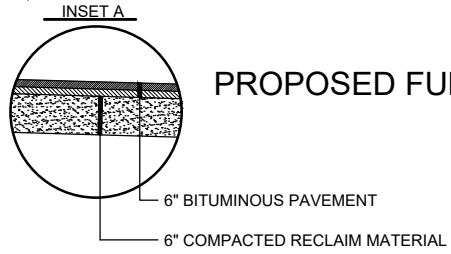


PROPOSED MILL AND OVERLAY TYPICAL SECTION

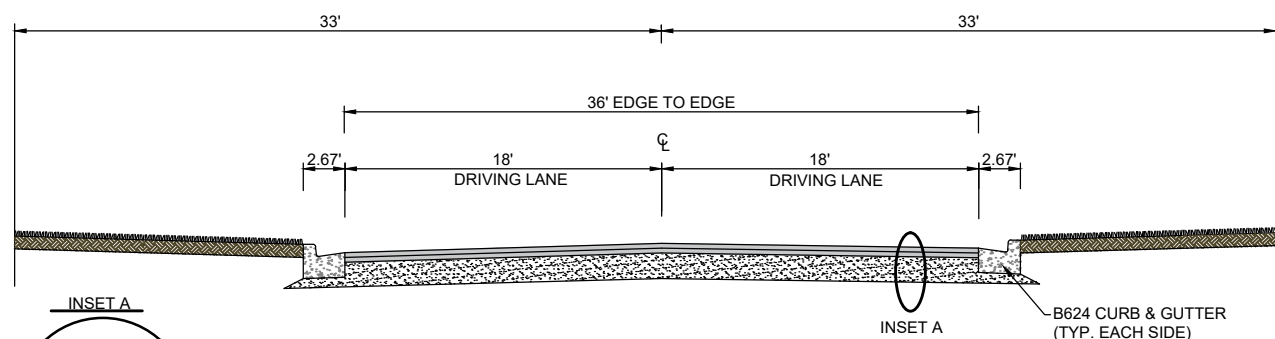
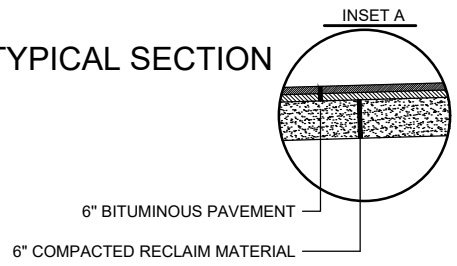
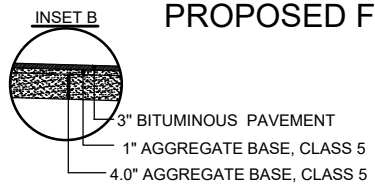
COTTAGE GROVE DRIVE, NORTHWOODS DRIVE,
CAMDEN ROAD, PARKWOOD DRIVE



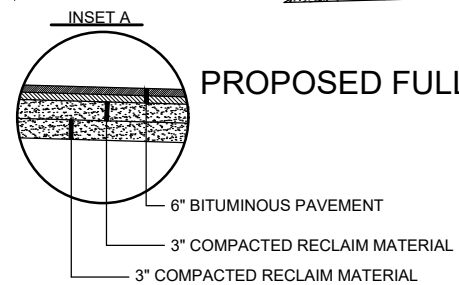
PROPOSED FULL DEPTH RECLAMATION TYPICAL SECTION
ELMWOOD DRIVE

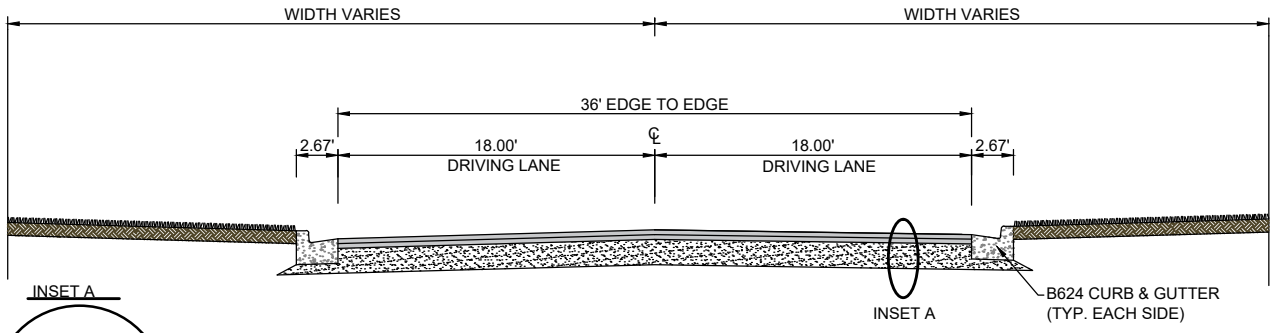


PROPOSED FULL DEPTH RECLAMATION TYPICAL SECTION
FORTHUN ROAD EAST



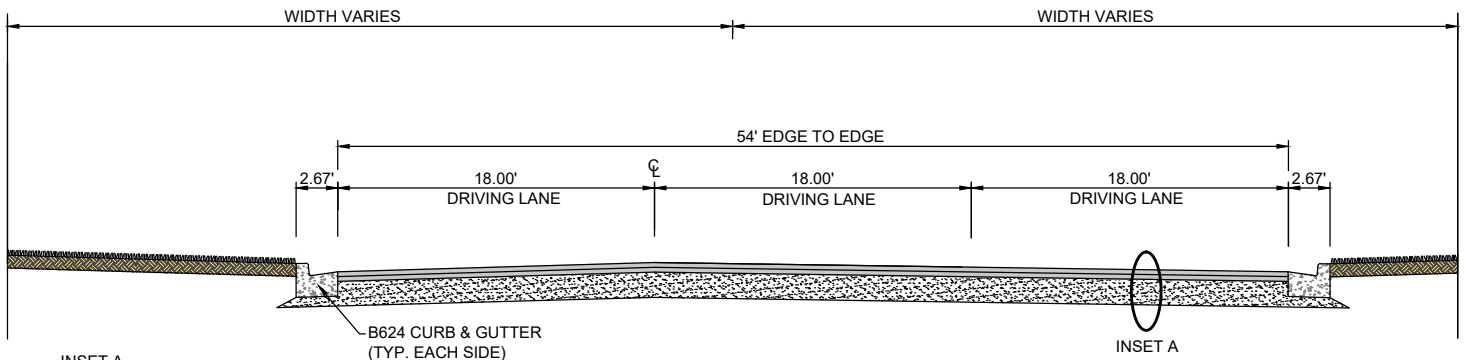
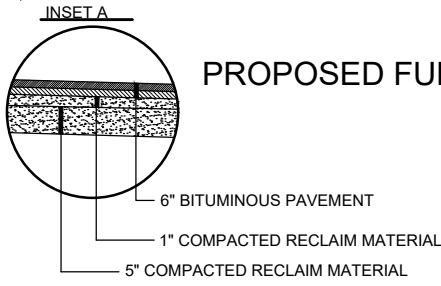
PROPOSED FULL DEPTH RECLAMATION TYPICAL SECTION
FORTHUN ROAD WEST





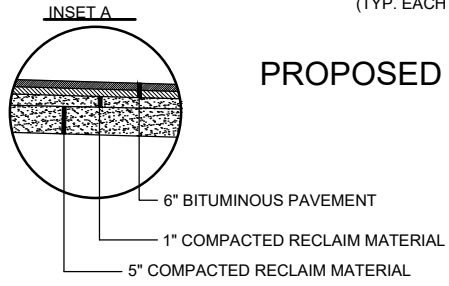
PROPOSED FULL DEPTH RECLAMATION TYPICAL SECTION

EDGEWOOD DRIVE,
DELLWOOD DRIVE

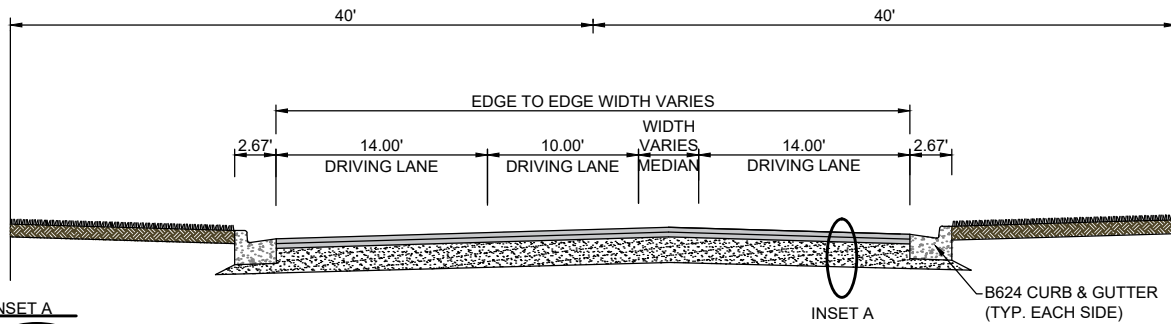


PROPOSED FULL DEPTH RECLAMATION TYPICAL SECTION

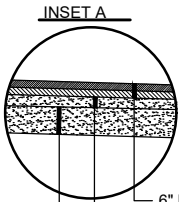
DELLWOOD DRIVE WITH TURN LANE



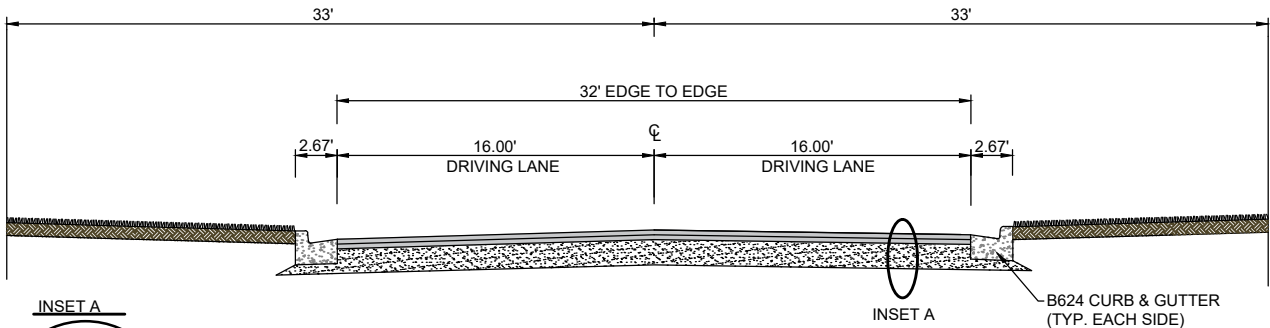
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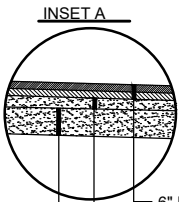
PROPOSED FULL DEPTH RECLAMATION TYPICAL SECTION
NOVOTNY ROAD



- 6" BITUMINOUS PAVEMENT
- 1" COMPACTED RECLAIM MATERIAL
- 5" COMPACTED RECLAIM MATERIAL



PROPOSED FULL DEPTH RECLAMATION TYPICAL SECTION
WHISPERING WOODS LANE



- 6" BITUMINOUS PAVEMENT
- 1" COMPACTED RECLAIM MATERIAL
- 5" COMPACTED RECLAIM MATERIAL

DATE	REV#	REVISIONS DESCRIPTION	BY

Appendix C

Engineer's Estimate & Assessment Calculations

2024 MILL & OVERLAY AND FULL DEPTH RECLAMATION IMPROVEMENTS PROJECT
ENGINEER'S ESTIMATE AND ASSESSMENT CALCULATIONS
BAXTER, MN
 Monday, December 11, 2023

					RESIDENTIAL M&O							
					JEPSON ROAD							
ITEM NO.	SPEC NO.	ITEM DESCRIPTION	UNIT	UNIT PRICE	ASSESSABLE ROADWAY		SANITARY SEWER		WATER		TOTAL PROJECT	
					ESTIMATED QUANTITY	TOTAL COST	ESTIMATED QUANTITY	TOTAL COST	ESTIMATED QUANTITY	TOTAL COST	ESTIMATED QUANTITY	TOTAL COST
1	2021.501	MOBILIZATION	LUMP SUM	\$10,000.00	0.64	\$6,400.00	0.08	\$800.00	0.28	\$2,800.00	1	\$10,000.00
2	2104.502	REMOVE CASTING (SANITARY)	EACH	\$235.00			2	\$470.00			2	\$470.00
3	2104.502	REMOVE CASTING (STORM)	EACH	\$235.00								
4	2104.502	REMOVE SIGN	EACH	\$40.00								
5	2104.502	REMOVE MAIL BOX SUPPORT	EACH	\$45.00								
6	2104.503	SAWING CONCRETE PAVEMENT (FULL DEPTH)	LIN FT	\$7.50								
7	2104.503	SAWING BITUMINOUS PAVEMENT (FULL DEPTH)	LIN FT	\$4.00			56	\$224.00			56	\$224.00
8	2104.503	REMOVE SEWER PIPE (SANITARY)	LIN FT	\$15.00								
9	2104.503	REMOVE CURB & GUTTER	LIN FT	\$4.00								
10	2104.504	REMOVE CONCRETE PAVEMENT	SQ YD	\$10.00								
11	2104.504	REMOVE BITUMINOUS PAVEMENT	SQ YD	\$6.00			11	\$65.33			11	\$65.33
12	2105.604	DITCH EXCAVATION	SQ YD	\$10.00	50	\$500.00					50	\$500.00
13	2112.603	SHOULDER PREPARATION	LIN FT	\$0.50	1000	\$500.00					1000	\$500.00
14	2112.619	RECLAIMED AGGREGATE BASE PREPARATION	ROAD STA	\$300.00								
15	2105.607	EXCAVATION SPECIAL	CU YD	\$16.00								
16	2105.607	COMMON EXCAVATION	CU YD	\$15.00								
17	2123.510	COMMON LABORERS	HOUR	\$100.00	1	\$100.00	1	\$100.00	1	\$100.00	3	\$300.00
18	2123.610	SKID LOADER	HOUR	\$145.00	1	\$145.00	1	\$145.00	1	\$145.00	3	\$435.00
19	2123.610	STREET SWEEPER (WITH PICKUP BROOM AND WATER)	HOUR	\$200.00	1	\$200.00	1	\$200.00	1	\$200.00	3	\$600.00
20	2211.607	AGGREGATE BASE SPECIAL (CV)	CU YD	\$35.00	5	\$175.00					5	\$175.00
21	2215.504	FULL DEPTH RECLAMATION	SQ YD	\$2.00								
22	2232.504	MILL BITUMINOUS SURFACE (2.0")	SQ YD	\$2.00	1786	\$3,572.00					1786	\$3,572.00
23	2301.504	CONCRETE PAVEMENT 8"	SQ YD	\$90.00								
24	2302.518	SPOT FULL DEPTH REPAIR	SQ FT	\$2.50	357	\$893.00					357	\$893.00
25	2302.604	BITUMINOUS DRIVEWAY REPLACEMENT	SQ YD	\$45.00								
26	2360.509	TYPE SP 9.5 WEARING COURSE MIX (3.C)	TON	\$95.00	216	\$20,487.65	1	\$94.64			217	\$20,582.29
27	2360.509	TYPE SP 12.5 NON-WEARING COURSE MIX (3.B)	TON	\$85.00								
28	2503.503	12" RC PIPE SEWER DESIGN 3008 CLASS V	LIN FT	\$75.00								
29	2503.601	TRACER WIRE SYSTEM (SANITARY)	LUMP SUM	\$500.00								
30	2503.602	CONNECT TO EXISTING STORM SEWER	EACH	\$1,300.00								
31	2503.602	CONNECT TO EXISTING SANITARY SEWER	EACH	\$1,850.00								
32	2503.603	8" PIPE SEWER	LIN FT	\$85.00								
33	2504.602	HYDRANT	EACH	\$5,500.00					1	\$5,500.00	1	\$5,500.00
34	2504.602	HYDRANT RESTORATION	EACH	\$2,500.00					1	\$2,500.00	1	\$2,500.00
35	2504.602	6" GATE VALVE REPLACEMENT	EACH	\$1,500.00					1	\$1,500.00	1	\$1,500.00
36	2504.602	WATERMAIN EXPLORATORY EXCAVATION	HOUR	\$700.00					4	\$2,800.00	4	\$2,800.00
37	2504.602	ADJUST VALVE BOX	EACH	\$325.00					1	\$325.00	1	\$325.00
38	2504.602	VALVE BOX MID SECTION	EACH	\$250.00					1	\$250.00	1	\$250.00
39	2504.602	WATERMAIN TEE	EACH	\$6,500.00								
40	2506.502	CASTING ASSEMBLY (SANITARY 700-7)	EACH	\$1,200.00			2	\$2,400.00			2	\$2,400.00
41	2506.502	CASTING ASSEMBLY (STORM 700-7)	EACH	\$1,200.00								
42	2506.502	CASTING ASSEMBLY (STORM NEENAH R-3250-DVSP)	EACH	\$1,550.00								
43	2506.502	CASTING ASSEMBLY (STORM NEENAH R-3250-EVSP)	EACH	\$1,300.00								
44	2506.503	CONSTRUCT DRAINAGE STRUCTURE 48-4020	LIN FT	\$1,000.00								
45	2506.503	CONSTRUCT DRAINAGE STRUCTURE DESIGN H	LIN FT	\$500.00								
46	2506.602	RECONSTRUCT DRAINAGE STRUCTURE	EACH	\$2,000.00								
47	2506.602	GROUT CATCH BASIN OR MANHOLE	CU YD	\$600.00								
48	2506.603	CONSTRUCT OUTSIDE DROP	LIN FT	\$1,400.00								
49	2506.603	SANITARY MANHOLE EXCESS DEPTH	LIN FT	\$500.00								
50	2521.518	6" CONCRETE WALK	SQ FT	\$17.50								
51	2521.518	3" BITUMINOUS WALK	SQ FT	\$3.50								
52	2531.503	CONCRETE CURB & GUTTER DESIGN B624	LIN FT	\$24.00								
53	2531.504	6" CONCRETE DRIVEWAY PAVEMENT	SQ YD	\$75.00								
54	2531.604	8" CONCRETE VALLEY GUTTER	SQ YD	\$97.50								
55	2531.618	TRUNCATED DOMES	SQ FT	\$65.00								
56	2540.602	MAIL BOX SUPPORT	EACH	\$125.00								
57	2563.601	TRAFFIC CONTROL	LUMP SUM	\$3,000.00	0.63	\$1,890.00	0.08	\$240.00	0.29	\$870.00	1	\$3,000.00
58	2564.518	SIGN PANELS TYPE C	SQ FT	\$60.00								
59	2573.502	STORM DRAIN INLET PROTECTION	EACH	\$165.00								
60	2573.503	SEDIMENT CONTROL LOG TYPE WOOD FIBER	LIN FT	\$5.00								
61	2573.503	SILT FENCE, TYPE MS	LIN FT	\$4.00								
62	2573.501	STABILIZED CONSTRUCTION EXIT	EACH	\$1,200.00								
63	2574.507	SCREENED TOPSOIL BORROW	CU YD	\$45.00	12	\$540.00					12	\$540.00
64	2574.508	FERTILIZER TYPE 3 (10-10-20) (SEEDING)	POUND	\$1.75	2	\$3.15					2	\$3.15
65	2574.508	FERTILIZER TYPE 3 (22-5-10) (SOD)	POUND	\$1.75								
66	2575.504	SOD TYPE LAWN	SQ YD	\$17.50								
67	2575.508	SEED MIXTURE 22-111 (TEMPORARY SEEDING)	POUND	\$5.50								
68	2575.508	SEED MIXTURE 25-151	POUND	\$7.00	4	\$25.20					4	\$25.20
69	2575.508	HYDRAULIC REINFORCED FIBER MATRIX	POUND	\$3.50	63	\$220.50					63	\$220.50
70	2575.523	WATER	MGAL	\$45.00	10	\$450.00					10	\$450.00
71	2575.605	SEEDING	ACRE	\$600.00	0.03	\$18.00					0	\$18.00
72	2582.503	4" SOLID LINE PAINT	LIN FT	\$0.85								
73	2582.503	4" BROKEN LINE PAINT	LIN FT	\$0.85								
74	2582.503	8" SOLID LINE PAINT	LIN FT	\$0.85	350	\$297.50					350	\$297.50
75	2582.503	4" DOUBLE SOLID LINE PAINT	LIN FT	\$0.85								

ESTIMATED CONSTRUCTION COST:	\$3,940,105.78	63%	\$36,417.00	8%	\$4,738.97	29%	\$16,990.00	100%	\$68,145.97
CONTINGENCIES (15%):	\$591,015.87		\$5,462.55		\$710.85		\$2,548.50		\$8,721.90
SUBTOTAL:	\$4,531,121.65		\$41,879.55		\$5,449.82		\$19,538.50	1.48%	\$66,867.87
ENGINEERING, LEGAL, FINANCE, ADMIN AND OTHER COSTS (25%):	\$1,132,780.41		\$10,469.89		\$1,362.45		\$4,884.63		\$16,716.97
ESTIMATED TOTAL PROJECT COST:	\$5,663,902.06		\$52,349.44		\$6,812.27		\$24,423.13		\$83,584.84

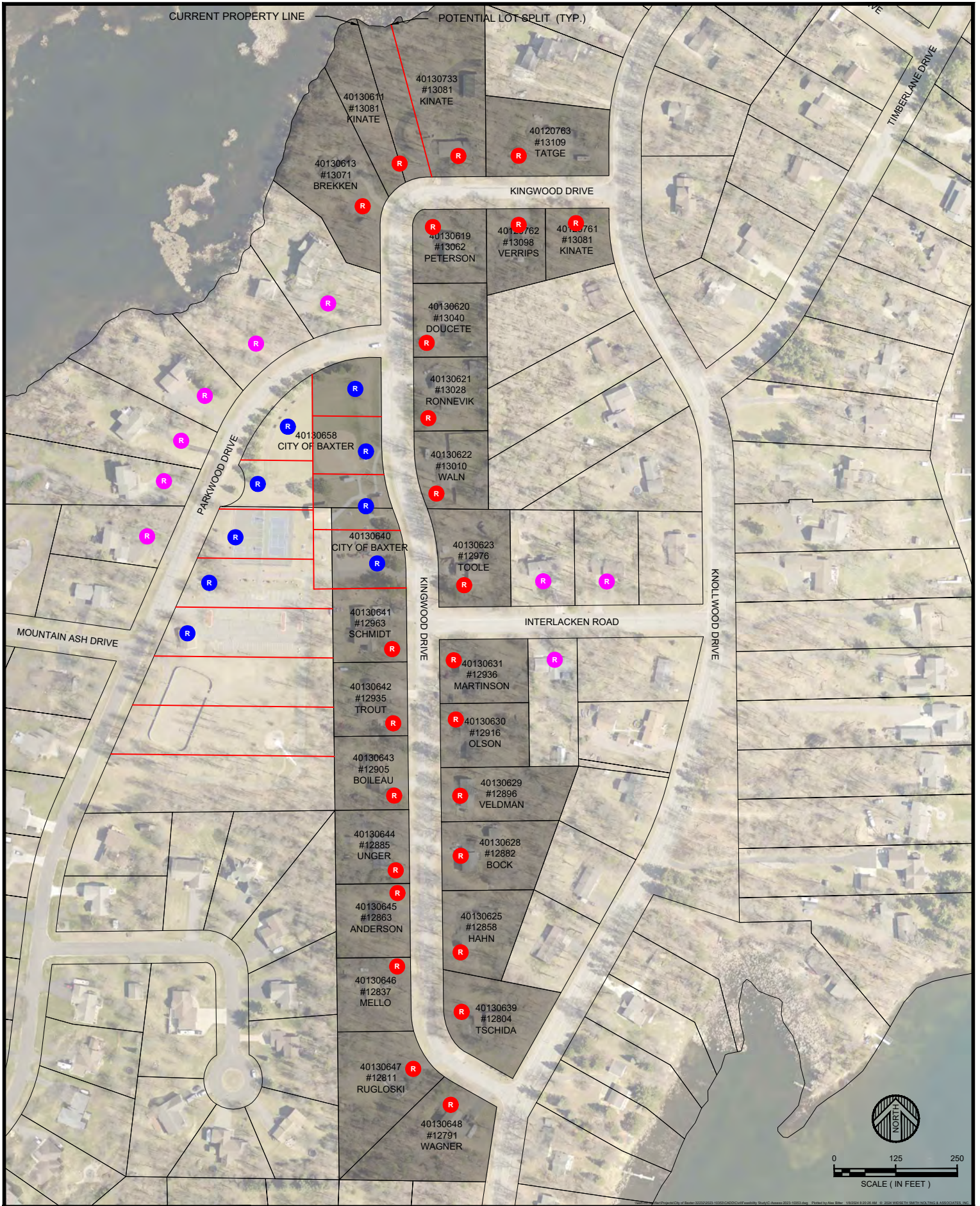


DATE	REV#	REVISIONS DESCRIPTION	BY

2024 MILL & OVERLAY AND FULL DEPTH RECLAMATION IMPROVEMENTS PROJECT
ENGINEER'S ESTIMATE AND ASSESSMENT CALCULATIONS
BAXTER, MN
 Monday, December 11, 2023

ITEM NO.	SPEC NO.	ITEM DESCRIPTION	UNIT	UNIT PRICE	KINGWOOD DRIVE									
					ASSESSABLE ROADWAY		TRAIL		SANITARY SEWER		WATER		TOTAL PROJECT	
					ESTIMATED QUANTITY	TOTAL COST	ESTIMATED QUANTITY	TOTAL COST	ESTIMATED QUANTITY	TOTAL COST	ESTIMATED QUANTITY	TOTAL COST	ESTIMATED QUANTITY	TOTAL COST
1	2021.501	MOBILIZATION	LUMP SUM	\$10,000.00	0.81	\$8,100.00	0.01	\$100.00	0.05	\$500.00	0.13	\$1,300.00	1	\$10,000.00
2	2104.502	REMOVE CASTING (SANITARY)	EACH	\$235.00				7	\$1,645.00				7	\$1,645.00
3	2104.502	REMOVE CASTING (STORM)	EACH	\$235.00										
4	2104.502	REMOVE SIGN	EACH	\$40.00	4	\$160.00							4	\$160.00
5	2104.502	REMOVE MAIL BOX SUPPORT	EACH	\$45.00										
6	2104.503	SAWING CONCRETE PAVEMENT (FULL DEPTH)	LN FT	\$7.50										
7	2104.503	SAWING BITUMINOUS PAVEMENT (FULL DEPTH)	LN FT	\$4.00				196	\$784.00				196	\$784.00
8	2104.503	REMOVE SEWER PIPE (SANITARY)	LN FT	\$15.00										
9	2104.503	REMOVE CURB & GUTTER	LN FT	\$4.00										
10	2104.504	REMOVE CONCRETE PAVEMENT	SQ YD	\$10.00										
11	2104.504	REMOVE BITUMINOUS PAVEMENT	SQ YD	\$6.00				38	\$228.00				38	\$228.00
12	2105.604	DITCH EXCAVATION	SQ YD	\$10.00	50	\$500.00							50	\$500.00
13	2112.603	SHOULDER PREPARATION	LN FT	\$0.50	4762	\$2,381.00							4762	\$2,381.00
14	2112.619	RECLAIMED AGGREGATE BASE PREPARATION	ROAD STA	\$300.00										
15	2105.607	EXCAVATION SPECIAL	CU YD	\$16.00										
16	2105.607	COMMON EXCAVATION	CU YD	\$15.00										
17	2123.510	COMMON LABORERS	HOUR	\$100.00	1	\$100.00	1	\$100.00	1	\$100.00	1	\$100.00	4	\$400.00
18	2123.610	SKID LOADER	HOUR	\$145.00	1	\$145.00	1	\$145.00	1	\$145.00	1	\$145.00	4	\$580.00
19	2123.610	STREET SWEEPER (WITH PICKUP BROOM AND WATER)	HOUR	\$200.00	1	\$200.00	1	\$200.00	1	\$200.00	1	\$200.00	4	\$800.00
20	2211.607	AGGREGATE BASE COURSE (SPECIAL CV)	CU YD	\$35.00	5	\$175.00							5	\$175.00
21	2215.504	FULL DEPTH RECLAMATION	SQ YD	\$2.00										
22	2232.504	MILL BITUMINOUS SURFACE (2.0")	SQ YD	\$2.00	7222	\$14,444.73	64	\$128.33					7287	\$14,573.07
23	2301.504	CONCRETE PAVEMENT 8"	SQ YD	\$90.00										
24	2302.518	SPOT FULL DEPTH REPAIR	SQ FT	\$2.50	1444	\$3,611.16							1444	\$3,611.16
25	2302.604	BITUMINOUS DRIVEWAY REPLACEMENT	SQ YD	\$45.00										
26	2305.509	TYPE SP 9.5 WEARING COURSE MIX (3.C)	TON	\$95.00	872	\$82,845.37	8	\$734.16	3	\$285.93			883	\$83,906.46
27	2305.509	TYPE SP 9.5 WEARING COURSE MIX (3.B)	TON	\$95.00					5	\$475.00			5	\$475.00
28	2303.503	12" RC PIPE SEWER DESIGN 300V CLASS V	LN FT	\$75.00						\$300.00				
29	2303.601	TRACER WIRE SYSTEM (SANITARY)	LUMP SUM	\$500.00										
30	2503.602	CONNECT TO EXISTING STORM SEWER	EACH	\$1,300.00										
31	2503.602	CONNECT TO EXISTING SANITARY SEWER	EACH	\$1,850.00										
32	2503.603	8" PIPE SEWER	LN FT	\$85.00										
33	2504.502	HYDRANT	EACH	\$5,500.00							2	\$11,000.00	2	\$11,000.00
34	2504.602	HYDRANT RESTORATION	EACH	\$2,500.00							2	\$5,000.00	2	\$5,000.00
35	2504.602	8" GATE VALVE REPLACEMENT	EACH	\$1,500.00							2	\$3,000.00	2	\$3,000.00
36	2504.602	WATERMAIN EXPLORATORY EXCAVATION	HOUR	\$700.00							12	\$8,400.00	12	\$8,400.00
37	2504.602	ADJUST VALVE BOX	EACH	\$325.00							1	\$325.00	1	\$325.00
38	2504.602	VALVE BOX MID SECTION	EACH	\$250.00							1	\$250.00	1	\$250.00
39	2504.602	WATERMAIN TEE	EACH	\$6,500.00										
40	2506.502	CASTING ASSEMBLY (SANITARY 700-7)	EACH	\$1,200.00					7	\$8,400.00			7	\$8,400.00
41	2506.502	CASTING ASSEMBLY (STORM 700-7)	EACH	\$1,200.00										
42	2506.502	CASTING ASSEMBLY (STORM NEENAH R-3250-EVSP)	EACH	\$1,500.00										
43	2506.502	CASTING ASSEMBLY (STORM NEENAH R-3250-EVSP)	EACH	\$1,300.00										
44	2506.503	CONSTRUCT DRAINAGE STRUCTURE 48-4020	LN FT	\$1,000.00										
45	2506.503	CONSTRUCT DRAINAGE STRUCTURE DESIGN H	LN FT	\$600.00										
46	2506.602	RECONSTRUCT DRAINAGE STRUCTURE	EACH	\$2,000.00										
47	2506.602	GROUT CATCH BASIN OR MANHOLE	CU YD	\$600.00										
48	2506.603	CONSTRUCT OUTSIDE DROP	LN FT	\$1,400.00										
49	2506.603	SANITARY MANHOLE EXCESS DEPTH	LN FT	\$500.00										
50	2521.518	8" CONCRETE WALK	SQ FT	\$17.50										
51	2521.518	3" BITUMINOUS WALK	SQ FT	\$3.50										
52	2531.503	CONCRETE CURB & GUTTER DESIGN 8024	LN FT	\$24.00										
53	2531.504	8" CONCRETE DRIVEWAY PAVEMENT	SQ YD	\$75.00										
54	2531.604	8" CONCRETE VALLEY GUTTER	SQ YD	\$97.50										
55	2531.618	TRUNCATED DOMES	SQ FT	\$65.00										
56	2540.602	MAIL BOX SUPPORT	EACH	\$125.00										
57	2563.001	TRAFFIC CONTROL	LUMP SUM	\$3,000.00	0.75	\$2,250.00	0.01	\$30.00	0.07	\$210.00	0.17	\$510.00	1	\$3,000.00
58	2564.518	SIGN PANELS TYPE C	SQ FT	\$60.00	28	\$1,680.00							28	\$1,680.00
59	2573.502	STORM DRAIN INLET PROTECTION	EACH	\$165.00										
60	2573.503	SEDIMENT CONTROL LOG TYPE WOOD FIBER	LN FT	\$5.00										
61	2573.503	SILT FENCE, TYPE MS	LN FT	\$4.00										
62	2573.501	STABILIZED CONSTRUCTION EXIT	EACH	\$1,200.00										
63	2574.507	SCREENED TOPSOIL BORROW	CU YD	\$45.00	99	\$4,455.00							99	\$4,455.00
64	2574.508	FERTILIZER TYPE 3 (15-10-20) (SEEDING)	POUND	\$1.75	12	\$21.00							12	\$21.00
65	2574.508	FERTILIZER TYPE 3 (22-5-10) (SOD)	POUND	\$1.75										
66	2575.504	SOD TYPE LAWN	SQ YD	\$17.50										
67	2575.508	SEED MIXTURE 22-111 (TEMPORARY SEEDING)	POUND	\$5.50										
68	2575.508	SEED MIXTURE 25-151	POUND	\$7.00	24	\$168.00							24	\$168.00
69	2575.508	HYDRAULIC REINFORCED FIBER MATRIX	POUND	\$3.50	426	\$1,491.00							426	\$1,491.00
70	2575.523	WATER	MGAL	\$45.00	10	\$450.00							10	\$450.00
71	2575.605	SEEDING	ACRE	\$600.00	0.20	\$120.00							0.20	\$120.00
72	2582.503	3" SOLID LINE PAINT	LN FT	\$0.85										
73	2582.503	4" SOLID LINE PAINT	LN FT	\$0.85	2380	\$2,023.00							2380	\$2,023.00
74	2582.503	8" SOLID LINE PAINT	LN FT	\$0.85	168	\$142.80							168	\$142.80
75	2582.503	4" DOUBLE SOLID LINE PAINT	LN FT	\$0.85										

ESTIMATED CONSTRUCTION COST:	\$3,940,105.78	73%	\$123,657.08	1%	\$1,437.49	8%	\$12,929.62	18%	\$30,230.00	100.0%	\$168,254.20
CONTINGENCIES (15%):	\$591,015.87		\$18,548.56		\$215.62		\$1,939.44		\$4,534.50		\$25,238.13
SUBTOTAL:	\$4,531,121.65		\$142,205.65		\$1,653.12		\$14,869.06		\$34,764.50		\$4,271,493.33
ENGINEERING, LEGAL, FINANCE, ADMIN AND OTHER COSTS (25%):	\$1,132,780.41		\$35,551.41		\$413.28		\$3,717.27		\$8,691.13		\$48,373.06
ESTIMATED TOTAL PROJECT COST:	\$5,663,902.06		\$177,757.06		\$2,066.40		\$18,586.33		\$43,455.63		\$241,865.41

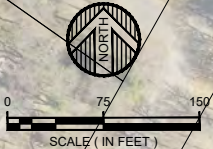


DATE	REV#	REVISIONS DESCRIPTION	BY

**2024 MILL & OVERLAY AND FULL DEPTH RECLAMATION IMPROVEMENTS PROJECT
ENGINEER'S ESTIMATE AND ASSESSMENT CALCULATIONS
BAXTER, MN
Monday, December 11, 2023**

					KNOLLWOOD COURT							
ITEM NO.	SPEC NO.	ITEM DESCRIPTION	UNIT	UNIT PRICE	ASSESSABLE ROADWAY		SANITARY SEWER		WATER		TOTAL PROJECT	
					ESTIMATED QUANTITY	TOTAL COST	ESTIMATED QUANTITY	TOTAL COST	ESTIMATED QUANTITY	TOTAL COST	ESTIMATED QUANTITY	TOTAL COST
1	2021.501	MOBILIZATION	LUMP SUM	\$10,000.00	0.67	\$6,700.00	0.08	\$800.00	0.25	\$2,500.00	1	\$10,000.00
2	2104.502	REMOVE CASTING (SANITARY)	EACH	\$235.00			2	\$470.00			2	\$470.00
3	2104.502	REMOVE CASTING (STORM)	EACH	\$235.00								
4	2104.502	REMOVE SIGN	EACH	\$40.00								
5	2104.502	REMOVE MAIL BOX SUPPORT	EACH	\$45.00								
6	2104.503	SAWING CONCRETE PAVEMENT (FULL DEPTH)	LIN FT	\$7.50								
7	2104.503	SAWING BITUMINOUS PAVEMENT (FULL DEPTH)	LIN FT	\$4.00			56	\$224.00			56	\$224.00
8	2104.503	REMOVE SEWER PIPE (SANITARY)	LIN FT	\$15.00								
9	2104.503	REMOVE CURB & GUTTER	LIN FT	\$4.00								
10	2104.504	REMOVE CONCRETE PAVEMENT	SQ YD	\$10.00								
11	2104.504	REMOVE BITUMINOUS PAVEMENT	SQ YD	\$6.00			11	\$65.33			11	\$65.33
12	2105.604	DITCH EXCAVATION	SQ YD	\$10.00	50	\$500.00					50	\$500.00
13	2112.603	SHOULDER PREPARATION	LIN FT	\$0.50	1320	\$660.00					1320	\$660.00
14	2112.619	RECLAIMED AGGREGATE BASE PREPARATION	ROAD STA	\$300.00								
15	2105.607	EXCAVATION SPECIAL	CU YD	\$16.00								
16	2105.607	COMMON EXCAVATION	CU YD	\$15.00								
17	2123.510	COMMON LABORERS	HOUR	\$100.00	1	\$100.00	1	\$100.00	1	\$100.00	3	\$300.00
18	2123.610	SKID LOADER	HOUR	\$145.00	1	\$145.00	1	\$145.00	1	\$145.00	3	\$435.00
19	2123.610	STREET SWEEPER (WITH PICKUP BROOM AND WATER)	HOUR	\$200.00	1	\$200.00	1	\$200.00	1	\$200.00	3	\$600.00
20	221.607	AGGREGATE BASE SPECIAL (CV)	CU YD	\$35.00	5	\$175.00					5	\$175.00
21	2215.504	FULL DEPTH RECLAMATION	SQ YD	\$2.00								
22	2232.504	MILL BITUMINOUS SURFACE (2.0")	SQ YD	\$2.00	2097	\$4,194.67					2097	\$4,194.67
23	2301.504	CONCRETE PAVEMENT 8"	SQ YD	\$90.00								
24	2302.518	SPOT FULL DEPTH REPAIR	SQ FT	\$2.50	419	\$1,048.67					419	\$1,048.67
25	2302.604	BITUMINOUS DRIVEWAY REPLACEMENT	SQ YD	\$45.00								
26	2360.509	TYPE SP 9.5 WEARING COURSE MIX (3.C)	TON	\$95.00	253	\$24,059.04	1	\$94.64			254	\$24,153.67
27	2360.509	TYPE SP 13.5 NON-WEARING COURSE MIX (3.B)	TON	\$85.00			1	\$112.90			1	\$112.90
28	2503.503	12" RC PIPE SEWER DESIGN 3006 CLASS V	LIN FT	\$75.00								
29	2503.601	TRACER WIRE SYSTEM (SANITARY)	LUMP SUM	\$500.00								
30	2503.602	CONNECT TO EXISTING STORM SEWER	EACH	\$1,300.00								
31	2503.602	CONNECT TO EXISTING SANITARY SEWER	EACH	\$1,850.00								
32	2503.603	8" PIPE SEWER	LIN FT	\$65.00								
33	2504.502	HYDRANT	EACH	\$5,500.00					1	\$5,500.00	1	\$5,500.00
34	2504.602	HYDRANT RESTORATION	EACH	\$2,500.00					1	\$2,500.00	1	\$2,500.00
35	2504.602	6" GATE VALVE REPLACEMENT	EACH	\$1,500.00					1	\$1,500.00	1	\$1,500.00
36	2504.602	WATERMAIN EXPLORATORY EXCAVATION	HOUR	\$700.00					4	\$2,800.00	4	\$2,800.00
37	2504.602	ADJUST VALVE BOX	EACH	\$325.00					1	\$325.00	1	\$325.00
38	2504.602	VALVE BOX MID SECTION	EACH	\$250.00					1	\$250.00	1	\$250.00
39	2504.602	WATERMAIN TEE	EACH	\$6,500.00								
40	2506.502	CASTING ASSEMBLY (SANITARY 700-7)	EACH	\$1,200.00			2	\$2,400.00			2	\$2,400.00
41	2506.502	CASTING ASSEMBLY (STORM 700-7)	EACH	\$1,200.00								
42	2506.502	CASTING ASSEMBLY (STORM NEENAH R-3250-DVSP)	EACH	\$1,550.00								
43	2506.502	CASTING ASSEMBLY (STORM NEENAH R-3250-EVSP)	EACH	\$1,300.00								
44	2506.503	CONSTRUCT DRAINAGE STRUCTURE 48-4020	LIN FT	\$1,000.00								
45	2506.503	CONSTRUCT DRAINAGE STRUCTURE DESIGN H	LIN FT	\$500.00								
46	2506.602	RECONSTRUCT DRAINAGE STRUCTURE	EACH	\$2,000.00								
47	2506.602	GROUT CATCH BASIN OR MANHOLE	CU YD	\$600.00								
48	2506.603	CONSTRUCT OUTSIDE DROP	LIN FT	\$1,400.00								
49	2506.603	SANITARY MANHOLE EXCESS DEPTH	LIN FT	\$500.00								
50	2521.518	6" CONCRETE WALK	SQ FT	\$17.50								
51	2521.518	3" BITUMINOUS WALK	SQ FT	\$3.50								
52	2531.503	CONCRETE CURB & GUTTER DESIGN B624	LIN FT	\$24.00								
53	2531.504	6" CONCRETE DRIVEWAY PAVEMENT	SQ YD	\$75.00								
54	2531.604	8" CONCRETE VALLEY GUTTER	SQ YD	\$97.50								
55	2531.618	TRUNCATED DOMES	SQ FT	\$65.00								
56	2540.602	MAIL BOX SUPPORT	EACH	\$125.00								
57	2563.601	TRAFFIC CONTROL	LUMP SUM	\$3,000.00	0.67	\$2,010.00	0.08	\$240.00	0.25	\$750.00	1	\$3,000.00
58	2564.518	SIGN PANELS TYPE C	SQ FT	\$60.00								
59	2573.502	STORM DRAIN INLET PROTECTION	EACH	\$165.00								
60	2573.503	SEDIMENT CONTROL LOG TYPE WOOD FIBER	LIN FT	\$5.00								
61	2573.503	SILT FENCE, TYPE MS	LIN FT	\$4.00								
62	2573.501	STABILIZED CONSTRUCTION EXIT	EACH	\$1,200.00								
63	2574.507	SCREENED TOPSOIL BORROW	CU YD	\$45.00	16	\$720.00					16	\$720.00
64	2574.508	FERTILIZER TYPE 3 (10-10-20) (SEEDING)	POUND	\$1.75	2	\$4.20					2	\$4.20
65	2574.508	FERTILIZER TYPE 3 (22-5-10) (SOD)	POUND	\$1.75								
66	2575.504	SOD TYPE LAWN	SQ YD	\$17.50								
67	2575.508	SEED MIXTURE 22-111 (TEMPORARY SEEDING)	POUND	\$5.50								
68	2575.508	SEED MIXTURE 25-151	POUND	\$7.00	5	\$33.60					5	\$33.60
69	2575.508	HYDRAULIC REINFORCED FIBER MATRIX	POUND	\$3.50	84	\$294.00					84	\$294.00
70	2575.523	WATER	M GAL	\$45.00	10	\$450.00					10	\$450.00
71	2575.606	SEEDING	ACRE	\$600.00	0.04	\$24.00					0.04	\$24.00
72	2582.503	4" SOLID LINE PAINT	LIN FT	\$0.85								
73	2582.503	4" BROKEN LINE PAINT	LIN FT	\$0.85	600	\$510.00					600	\$510.00
74	2582.503	8" SOLID LINE PAINT	LIN FT	\$0.85								
75	2582.503	4" DOUBLE SOLID LINE PAINT	LIN FT	\$0.85								

ESTIMATED CONSTRUCTION COST:	\$3,940,105.78	66%	\$41,828.17	8%	\$4,851.87	26%	\$16,570.00	100%	\$63,250.04
CONTINGENCIES (15%):	\$591,015.87		\$6,274.23		\$727.78		\$2,485.50		\$9,487.51
SUBTOTAL:	\$4,531,121.65		\$48,102.39		\$5,579.65		\$19,055.50		\$72,737.55
ENGINEERING, LEGAL, FINANCE, ADMIN AND OTHER COSTS (25%):	\$1,132,780.41		\$12,025.60		\$1,394.91		\$4,763.88	1.61%	\$18,184.39
ESTIMATED TOTAL PROJECT COST:	\$5,663,902.06		\$60,127.99		\$6,974.57		\$23,819.38		\$90,921.93



DATE	REV#	REVISIONS DESCRIPTION	BY

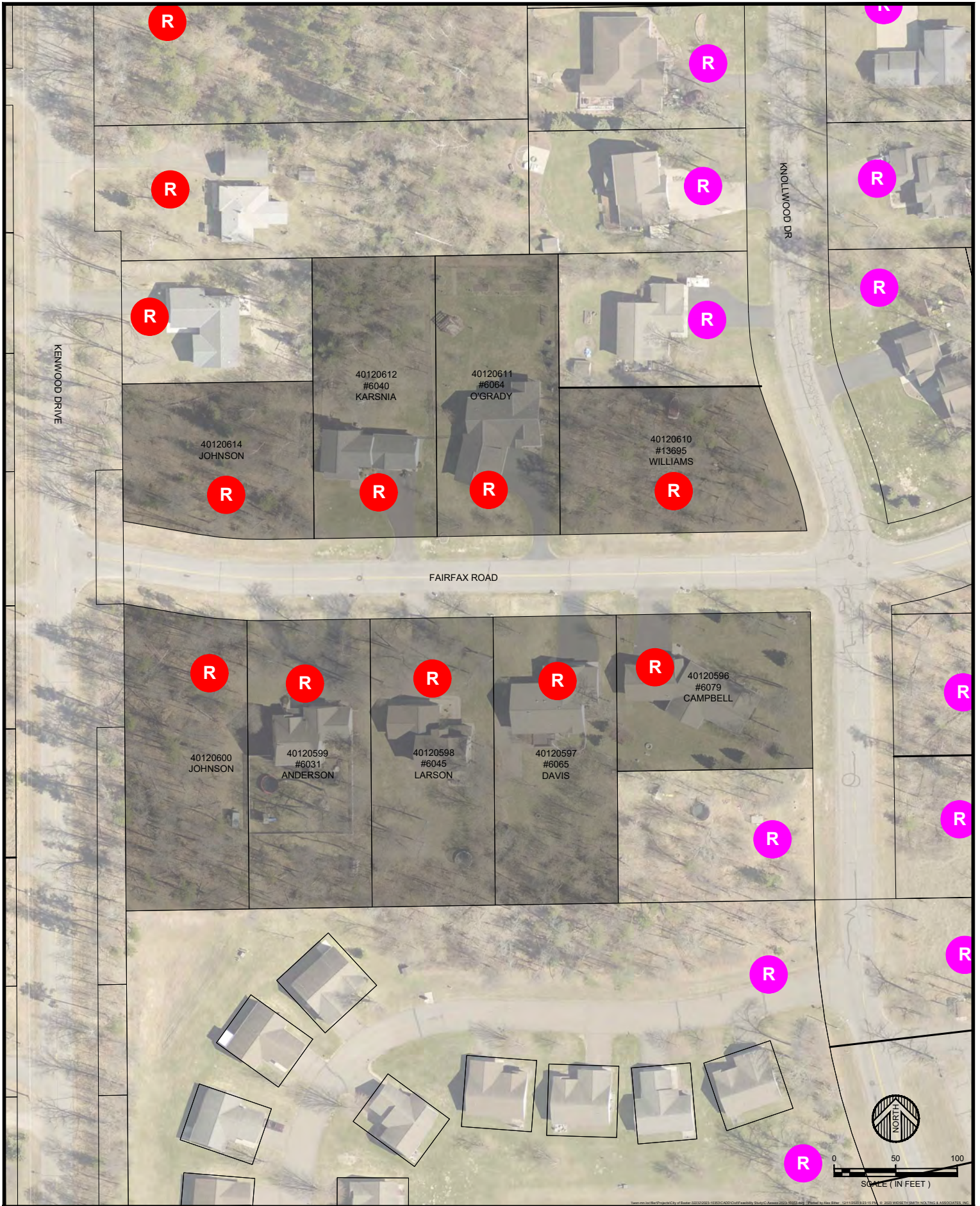
DATE: JUNE 2023
SCALE: AS SHOWN
DRAWN BY: TJS
CHECKED BY: ADB

JOB NUMBER: 2023-10353

2024 MILL & OVERLAY AND FULL DEPTH RECLAMATION IMPROVEMENTS PROJECT
ENGINEER'S ESTIMATE AND ASSESSMENT CALCULATIONS
BAXTER, MN
 Monday, December 11, 2023

					FAIRFAX ROAD							
ITEM NO.	SPEC NO.	ITEM DESCRIPTION	UNIT	UNIT PRICE	ASSESSABLE ROADWAY		SANITARY SEWER		WATER		TOTAL PROJECT	
					ESTIMATED QUANTITY	TOTAL COST	ESTIMATED QUANTITY	TOTAL COST	ESTIMATED QUANTITY	TOTAL COST	ESTIMATED QUANTITY	TOTAL COST
1	2021.501	MOBILIZATION	LUMP SUM	\$10,000.00	0.85	\$8,500.00	0.10	\$1,000.00	0.05	\$500.00	1	\$10,000.00
2	2104.502	REMOVE CASTING (SANITARY)	EACH	\$235.00			2	\$470.00			2	\$470.00
3	2104.502	REMOVE CASTING (STORM)	EACH	\$235.00								
4	2104.502	REMOVE SIGN	EACH	\$40.00	2	\$80.00					2	\$80.00
5	2104.502	REMOVE MAIL BOX SUPPORT	EACH	\$45.00								
6	2104.503	SAWING CONCRETE PAVEMENT (FULL DEPTH)	LIN FT	\$7.50								
7	2104.503	SAWING BITUMINOUS PAVEMENT (FULL DEPTH)	LIN FT	\$4.00			56	\$224.00			56	\$224.00
8	2104.503	REMOVE SEWER PIPE (SANITARY)	LIN FT	\$15.00								
9	2104.503	REMOVE CURB & GUTTER	LIN FT	\$4.00								
10	2104.504	REMOVE CONCRETE PAVEMENT	SQ YD	\$10.00								
11	2104.504	REMOVE BITUMINOUS PAVEMENT	SQ YD	\$6.00			11	\$66.33			11	\$66.33
12	2105.604	DITCH EXCAVATION	SQ YD	\$10.00	50	\$500.00					50	\$500.00
13	2112.603	SHOULDER PREPARATION	LIN FT	\$9.50	1294	\$647.00					1294	\$647.00
14	2112.619	RECLAIMED AGGREGATE BASE PREPARATION	ROAD STA	\$300.00								
15	2105.607	EXCAVATION SPECIAL	CU YD	\$16.00								
16	2105.607	COMMON EXCAVATION	CU YD	\$16.00								
17	2123.510	COMMON LABORERS	HOURL	\$100.00	1	\$100.00	1	\$100.00	1	\$100.00	3	\$300.00
18	2123.610	SKID LOADER	HOURL	\$145.00	1	\$145.00	1	\$145.00	1	\$145.00	3	\$435.00
19	2123.610	STREET SWEEPER (WITH PICKUP BROOM AND WATER)	HOURL	\$200.00	1	\$200.00	1	\$200.00	1	\$200.00	3	\$600.00
20	2211.607	AGGREGATE BASE SPECIAL (CV)	CU YD	\$35.00	5	\$175.00					5	\$175.00
21	2215.504	FULL DEPTH RECLAMATION	SQ YD	\$2.00								
22	2232.504	MILL BITUMINOUS SURFACE (2.0")	SQ YD	\$2.00	1963	\$3,925.13					1963	\$3,925.13
23	2301.504	CONCRETE PAVEMENT 8"	SQ YD	\$90.00								
24	2302.518	SPOT FULL DEPTH REPAIR	SQ FT	\$2.50	393	\$981.28					393	\$981.28
25	2302.604	BITUMINOUS DRIVEWAY REPLACEMENT	SQ YD	\$45.00								
26	2360.509	TYPE SP 5 WEARING COURSE MIX (3.5)	TON	\$95.00	237	\$22,515.09	1	\$94.04			238	\$22,607.73
27	2360.509	TYPE SP 12.5 NONWEARING COURSE MIX (3.8)	TON	\$85.00			1	\$112.90			1	\$112.90
28	2503.503	12" RC PIPE SEWER DESIGN 3008 CLASS V	LIN FT	\$75.00								
29	2503.601	TRACER WIRE SYSTEM (SANITARY)	LUMP SUM	\$500.00								
30	2503.602	CONNECT TO EXISTING STORM SEWER	EACH	\$1,300.00								
31	2503.602	CONNECT TO EXISTING SANITARY SEWER	EACH	\$1,850.00								
32	2503.603	8" PIPE SEWER	LIN FT	\$85.00								
33	2504.502	HYDRANT	EACH	\$5,500.00								
34	2504.602	HYDRANT RESTORATION	EACH	\$2,500.00								
35	2504.602	6" GATE VALVE REPLACEMENT	EACH	\$1,500.00								
36	2504.602	WATERMAIN EXPLORATORY EXCAVATION	HOURL	\$700.00								
37	2504.602	ADJUST VALVE BOX	EACH	\$325.00				2	\$650.00		2	\$650.00
38	2504.602	VALVE BOX MID SECTION	EACH	\$250.00				1	\$250.00		1	\$250.00
39	2504.602	WATERMAIN TEE	EACH	\$6,500.00								
40	2506.502	CASTING ASSEMBLY (SANITARY 700-7)	EACH	\$1,200.00			2	\$2,400.00			2	\$2,400.00
41	2506.502	CASTING ASSEMBLY (STORM 700-7)	EACH	\$1,200.00								
42	2506.502	CASTING ASSEMBLY (STORM NEENAH R-3250-DVSP)	EACH	\$1,550.00								
43	2506.502	CASTING ASSEMBLY (STORM NEENAH R-3250-EVSP)	EACH	\$1,300.00								
44	2506.503	CONSTRUCT DRAINAGE STRUCTURE 48-4020	LIN FT	\$1,000.00								
45	2506.503	CONSTRUCT DRAINAGE STRUCTURE DESIGN H	LIN FT	\$500.00								
46	2506.602	RECONSTRUCT DRAINAGE STRUCTURE	EACH	\$2,000.00								
47	2506.602	GROUT CATCH BASIN OR MANHOLE	CU YD	\$600.00								
48	2506.603	CONSTRUCT OUTSIDE DROP	LIN FT	\$1,400.00								
49	2506.603	SANITARY MANHOLE EXCESS DEPTH	LIN FT	\$500.00								
50	2521.518	6" CONCRETE WALK	SQ FT	\$17.50								
51	2521.518	3" BITUMINOUS WALK	SQ FT	\$3.50								
52	2531.503	CONCRETE CURB & GUTTER DESIGN B624	LIN FT	\$24.00								
53	2531.504	6" CONCRETE DRIVEWAY PAVEMENT	SQ YD	\$75.00								
54	2531.604	8" CONCRETE VALLEY GUTTER	SQ YD	\$97.50								
55	2531.618	TRUNCATED DOMES	SQ FT	\$65.00								
56	2540.602	MAIL BOX SUPPORT	EACH	\$125.00								
57	2563.601	TRAFFIC CONTROL	LUMP SUM	\$3,000.00	0.85	\$2,550.00	0.10	\$300.00	0.05	\$150.00	1	\$3,000.00
58	2564.518	SIGN PANELS TYPE C	SQ FT	\$60.00	13	\$780.00					13	\$780.00
59	2573.502	STORM DRAIN INLET PROTECTION	EACH	\$165.00								
60	2573.503	SEDIMENT CONTROL LOG TYPE WOOD FIBER	LIN FT	\$5.00								
61	2573.503	SILT FENCE, TYPE MS	LIN FT	\$4.00								
62	2573.501	STABILIZED CONSTRUCTION EXIT	EACH	\$1,200.00								
63	2574.507	SCREENED TOPSOIL BORROW	CU YD	\$45.00	16	\$720.00					16	\$720.00
64	2574.508	FERTILIZER TYPE 3 (10-10-20) (SEEDING)	POUND	\$1.75	2	\$3.16					2	\$3.16
65	2574.508	FERTILIZER TYPE 3 (22-5-10) (SOD)	POUND	\$1.75								
66	2575.504	SOD TYPE LAWN	SQ YD	\$17.50								
67	2575.508	SEED MIXTURE 22-111 (TEMPORARY SEEDING)	POUND	\$5.50								
68	2575.508	SEED MIXTURE 25-151	POUND	\$7.00	4	\$28.20					4	\$28.20
69	2575.508	HYDRAULIC REINFORCED FIBER MATRIX	POUND	\$3.50	63	\$220.50					63	\$220.50
70	2575.523	WATER	MGAL	\$45.00	10	\$450.00					10	\$450.00
71	2575.605	SEEDING	ACRE	\$600.00	0.03	\$18.00					0.03	\$18.00
72	2582.503	4" SOLID LINE PAINT	LIN FT	\$0.85								
73	2582.503	4" BROKEN LINE PAINT	LIN FT	\$0.85								
74	2582.503	8" SOLID LINE PAINT	LIN FT	\$0.85								
75	2582.503	4" DOUBLE SOLID LINE PAINT	LIN FT	\$0.85	575	\$488.75					575	\$488.75

ESTIMATED CONSTRUCTION COST:	\$3,940,105.78	86%	\$42,992.11	10%	\$5,111.87	4%	\$1,995.00	100%	\$50,098.98
CONTINGENCIES (15%):	\$591,015.87		\$6,448.82		\$766.78		\$299.25		\$7,514.85
SUBTOTAL:	\$4,531,121.65		\$49,440.93		\$5,878.65		\$2,294.25	1.27%	\$7,613.83
ENGINEERING, LEGAL, FINANCE, ADMIN AND OTHER COSTS (25%):	\$1,132,780.41		\$12,360.23		\$1,469.66		\$573.56		\$14,403.46
ESTIMATED TOTAL PROJECT COST:	\$5,663,902.06		\$61,801.16		\$7,348.32		\$2,867.81		\$72,017.29



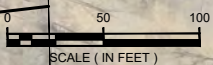
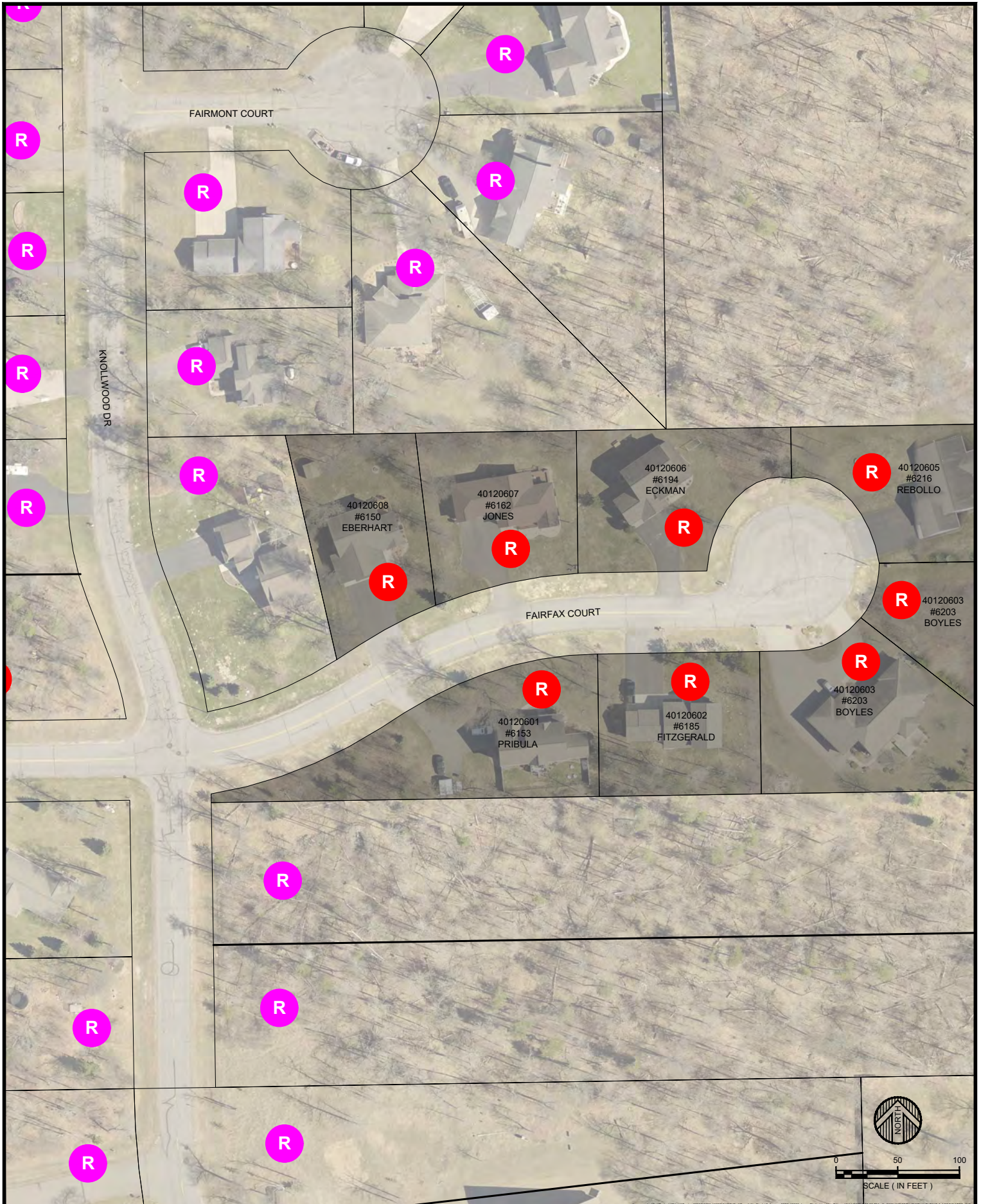
DATE	REV#	REVISIONS DESCRIPTION	BY

DATE: JUNE 2023
SCALE: AS SHOWN
DRAWN BY: TJS
CHECKED BY: ADB
JOB NUMBER: 2023-10353

2024 MILL & OVERLAY AND FULL DEPTH RECLAMATION IMPROVEMENTS PROJECT
ENGINEER'S ESTIMATE AND ASSESSMENT CALCULATIONS
BAXTER, MN
 Monday, December 11, 2023

					FAIRFAX COURT							
ITEM NO.	SPEC NO.	ITEM DESCRIPTION	UNIT	UNIT PRICE	ASSESSABLE ROADWAY		SANITARY SEWER		WATER		TOTAL PROJECT	
					ESTIMATED QUANTITY	TOTAL COST	ESTIMATED QUANTITY	TOTAL COST	ESTIMATED QUANTITY	TOTAL COST	ESTIMATED QUANTITY	TOTAL COST
1	2021.501	MOBILIZATION	LUMP SUM	\$10,000.00	0.86	\$8,585.00	0.12	\$1,170.00	0.02	\$245.00	1	\$10,000.00
2	2104.502	REMOVE CASTING (SANITARY)	EACH	\$235.00			2	\$470.00			2	\$470.00
3	2104.502	REMOVE CASTING (STORM)	EACH	\$235.00								
4	2104.502	REMOVE SIGN	EACH	\$40.00	1	\$40.00					1	\$40.00
5	2104.502	REMOVE MAIL BOX SUPPORT	EACH	\$45.00								
6	2104.503	SAWING CONCRETE PAVEMENT (FULL DEPTH)	LIN FT	\$7.50								
7	2104.503	SAWING BITUMINOUS PAVEMENT (FULL DEPTH)	LIN FT	\$4.00			56	\$224.00			56	\$224.00
8	2104.503	REMOVE SEWER PIPE (SANITARY)	LIN FT	\$15.00								
9	2104.503	REMOVE CURB & GUTTER	LIN FT	\$4.00								
10	2104.504	REMOVE CONCRETE PAVEMENT	SQ YD	\$10.00								
11	2104.504	REMOVE BITUMINOUS PAVEMENT	SQ YD	\$6.00			11	\$66.33			11	\$66.33
12	2105.604	DITCH EXCAVATION	SQ YD	\$10.00	50	\$500.00					50	\$500.00
13	2112.603	SHOULDER PREPARATION	LIN FT	\$9.50	1184	\$592.00					1184	\$592.00
14	2112.619	RECLAIMED AGGREGATE BASE PREPARATION	ROAD STA	\$300.00								
15	2105.607	EXCAVATION SPECIAL	CU YD	\$16.00								
16	2105.607	COMMON EXCAVATION	CU YD	\$16.00								
17	2123.510	COMMON LABORERS	HOURL	\$100.00	1	\$100.00	1	\$100.00	1	\$100.00	3	\$300.00
18	2123.610	SKID LOADER	HOURL	\$145.00	1	\$145.00	1	\$145.00	1	\$145.00	3	\$435.00
19	2123.610	STREET SWEEPER (WITH PICKUP BROOM AND WATER)	HOURL	\$200.00	1	\$200.00	1	\$200.00	1	\$200.00	3	\$600.00
20	2211.607	AGGREGATE BASE SPECIAL (CV)	CU YD	\$35.00	5	\$175.00					5	\$175.00
21	2215.504	FULL DEPTH RECLAMATION	SQ YD	\$2.00								
22	2232.504	MILL BITUMINOUS SURFACE (2.0")	SQ YD	\$2.00	2090	\$4,180.00					2090	\$4,180.00
23	2301.504	CONCRETE PAVEMENT 8"	SQ YD	\$90.00								
24	2302.518	SPOT FULL DEPTH REPAIR	SQ FT	\$2.50	418	\$1,045.00					418	\$1,045.00
25	2302.604	BITUMINOUS DRIVEWAY REPLACEMENT	SQ YD	\$45.00								
26	2360.509	TYPE SP 5 WEARING COURSE MIX (3.0)	TON	\$95.00	252	\$23,974.91	1	\$94.04			253	\$24,068.95
27	2360.509	TYPE SP 12.5 NONWEARING COURSE MIX (3.8)	TON	\$85.00			1	\$112.90			1	\$112.90
28	2503.503	12" RC PIPE SEWER DESIGN 3008 CLASS V	LIN FT	\$75.00								
29	2503.601	TRACER WIRE SYSTEM (SANITARY)	LUMP SUM	\$500.00								
30	2503.602	CONNECT TO EXISTING STORM SEWER	EACH	\$1,300.00								
31	2503.602	CONNECT TO EXISTING SANITARY SEWER	EACH	\$1,850.00								
32	2503.603	8" PIPE SEWER	LIN FT	\$85.00								
33	2504.502	HYDRANT	EACH	\$5,500.00								
34	2504.602	HYDRANT RESTORATION	EACH	\$2,500.00								
35	2504.602	6" GATE VALVE REPLACEMENT	EACH	\$1,500.00								
36	2504.602	WATERMAIN EXPLORATORY EXCAVATION	HOURL	\$700.00								
37	2504.602	ADJUST VALVE BOX	EACH	\$325.00								
38	2504.602	VALVE BOX MID SECTION	EACH	\$250.00								
39	2504.602	WATERMAIN TEE	EACH	\$6,500.00								
40	2506.502	CASTING ASSEMBLY (SANITARY 700-7)	EACH	\$1,200.00			2	\$2,400.00			2	\$2,400.00
41	2506.502	CASTING ASSEMBLY (STORM 700-7)	EACH	\$1,200.00								
42	2506.502	CASTING ASSEMBLY (STORM NEENAH R-3250-DVSP)	EACH	\$1,550.00								
43	2506.502	CASTING ASSEMBLY (STORM NEENAH R-3250-EVSP)	EACH	\$1,300.00								
44	2506.503	CONSTRUCT DRAINAGE STRUCTURE 48-4020	LIN FT	\$1,000.00								
45	2506.503	CONSTRUCT DRAINAGE STRUCTURE DESIGN H	LIN FT	\$500.00								
46	2506.602	RECONSTRUCT DRAINAGE STRUCTURE	EACH	\$2,000.00								
47	2506.602	GROUT CATCH BASIN OR MANHOLE	CU YD	\$600.00								
48	2506.603	CONSTRUCT OUTSIDE DROP	LIN FT	\$1,400.00								
49	2506.603	SANITARY MANHOLE EXCESS DEPTH	LIN FT	\$500.00								
50	2521.518	6" CONCRETE WALK	SQ FT	\$17.50								
51	2521.518	3" BITUMINOUS WALK	SQ FT	\$3.50								
52	2531.503	CONCRETE CURB & GUTTER DESIGN B624	LIN FT	\$24.00								
53	2531.504	6" CONCRETE DRIVEWAY PAVEMENT	SQ YD	\$75.00								
54	2531.604	8" CONCRETE VALLEY GUTTER	SQ YD	\$97.50								
55	2531.618	TRUNCATED DOMES	SQ FT	\$65.00								
56	2540.602	MAIL BOX SUPPORT	EACH	\$125.00								
57	2563.601	TRAFFIC CONTROL	LUMP SUM	\$3,000.00	0.86	\$2,575.50	0.12	\$351.00	0.02	\$73.50	1	\$3,000.00
58	2564.518	SIGN PANELS TYPE C	SQ FT	\$60.00	6	\$375.00					6	\$375.00
59	2573.502	STORM DRAIN INLET PROTECTION	EACH	\$165.00								
60	2573.503	SEDIMENT CONTROL LOG TYPE WOOD FIBER	LIN FT	\$5.00								
61	2573.503	SILT FENCE, TYPE MS	LIN FT	\$4.00								
62	2573.501	STABILIZED CONSTRUCTION EXIT	EACH	\$1,200.00								
63	2574.507	SCREENED TOPSOIL BORROW	CU YD	\$45.00	15	\$675.00					15	\$675.00
64	2574.508	FERTILIZER TYPE 3 (10-10-20) (SEEDING)	POUND	\$1.75	2	\$3.15					2	\$3.15
65	2574.508	FERTILIZER TYPE 3 (22-5-10) (SOD)	POUND	\$1.75								
66	2575.504	SOD TYPE LAWN	SQ YD	\$17.50								
67	2575.508	SEED MIXTURE 22-111 (TEMPORARY SEEDING)	POUND	\$5.50								
68	2575.508	SEED MIXTURE 25-151	POUND	\$7.00	4	\$28.20					4	\$28.20
69	2575.508	HYDRAULIC REINFORCED FIBER MATRIX	POUND	\$3.50	63	\$220.50					63	\$220.50
70	2575.523	WATER	MGAL	\$45.00	10	\$450.00					10	\$450.00
71	2575.605	SEEDING	ACRE	\$600.00	0.03	\$18.00					0.03	\$18.00
72	2582.503	4" SOLID LINE PAINT	LIN FT	\$0.85								
73	2582.503	4" BROKEN LINE PAINT	LIN FT	\$0.85								
74	2582.503	8" SOLID LINE PAINT	LIN FT	\$0.85								
75	2582.503	4" DOUBLE SOLID LINE PAINT	LIN FT	\$0.85	450	\$382.50					450	\$382.50

ESTIMATED CONSTRUCTION COST:	\$3,940,105.78	87.89%	\$44,261.76	10.59%	\$5,332.87	1.52%	\$763.50	100%	\$90,358.13
CONTINGENCIES (15%):	\$591,015.87		\$6,639.26		\$799.93		\$114.53		\$7,553.72
SUBTOTAL:	\$4,531,121.65		\$50,901.03		\$6,132.80		\$878.03	1.28%	\$97,911.86
ENGINEERING, LEGAL, FINANCE, ADMIN AND OTHER COSTS (25%):	\$1,132,780.41		\$12,725.26		\$1,533.20		\$219.51		\$14,477.96
ESTIMATED TOTAL PROJECT COST:	\$5,663,902.06		\$63,626.28		\$7,666.00		\$1,097.53		\$72,389.82

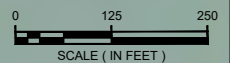
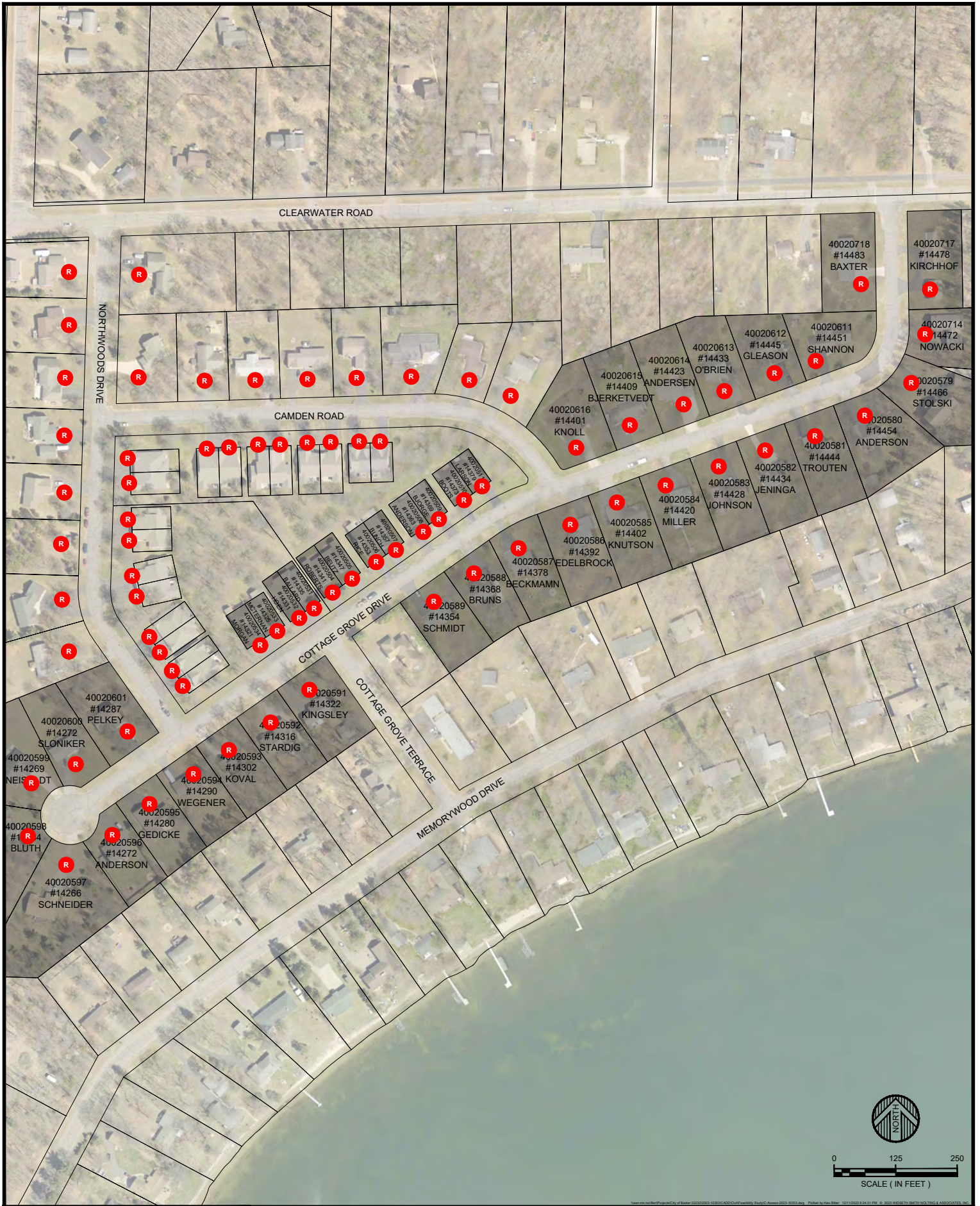


	<small> I HEREBY CERTIFY THAT THIS PLAN, SPECIFICATION, OR REPORT WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MINNESOTA. </small>				<small>DATE:</small> JUNE 2023 <small>SCALE:</small> AS SHOWN <small>DRAWN BY:</small> TJS <small>CHECKED BY:</small> ADB	2024 MILL & OVERLAY AND FDR IMPROVEMENTS CITY OF BAXTER BAXTER, MINNESOTA	<small>SHEET NO.</small> A-11													
	<small>FILED BY:</small> BITTER <small>DATE:</small> <small>LIC. NO.:</small> 5774H	<table border="1"> <thead> <tr> <th>DATE</th> <th>REV#</th> <th>REVISIONS DESCRIPTION</th> <th>BY</th> </tr> </thead> <tbody> <tr><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td></tr> </tbody> </table>	DATE	REV#	REVISIONS DESCRIPTION	BY													<small>JOB NUMBER:</small> 2023-10353	FAIRFAX COURT ASSESSMENT MAP
DATE	REV#	REVISIONS DESCRIPTION	BY																	

2024 MILL & OVERLAY AND FULL DEPTH RECLAMATION IMPROVEMENTS PROJECT
ENGINEER'S ESTIMATE AND ASSESSMENT CALCULATIONS
BAXTER, MN
 Monday, December 11, 2023

					COTTAGE GROVE DRIVE							
ITEM NO.	SPEC NO.	ITEM DESCRIPTION	UNIT	UNIT PRICE	ASSESSABLE ROADWAY		SANITARY SEWER		WATER		TOTAL PROJECT	
					ESTIMATED QUANTITY	TOTAL COST	ESTIMATED QUANTITY	TOTAL COST	ESTIMATED QUANTITY	TOTAL COST	ESTIMATED QUANTITY	TOTAL COST
1	2021.501	MOBILIZATION	LUMP SUM	\$10,000.00	0.87	\$8,700.00	0.10	\$1,000.00	0.03	\$300.00	1	\$10,000.00
2	2104.502	REMOVE CASTING (SANITARY)	EACH	\$235.00			8	\$1,880.00			8	\$1,880.00
3	2104.502	REMOVE CASTING (STORM)	EACH	\$235.00								
4	2104.502	REMOVE SIGN	EACH	\$40.00	1	\$40.00					1	\$40.00
5	2104.502	REMOVE MAIL BOX SUPPORT	EACH	\$45.00								
6	2104.503	SAWING CONCRETE PAVEMENT (FULL DEPTH)	LIN FT	\$7.50								
7	2104.503	SAWING BITUMINOUS PAVEMENT (FULL DEPTH)	LIN FT	\$4.00			224	\$896.00			224	\$896.00
8	2104.503	REMOVE SEWER PIPE (SANITARY)	LIN FT	\$15.00								
9	2104.503	REMOVE CURB & GUTTER	LIN FT	\$4.00								
10	2104.504	REMOVE CONCRETE PAVEMENT	SQ YD	\$10.00								
11	2104.504	REMOVE BITUMINOUS PAVEMENT	SQ YD	\$6.00			44	\$261.33			44	\$261.33
12	2105.604	DITCH EXCAVATION	SQ YD	\$10.00	50	\$500.00					50	\$500.00
13	2112.603	SHOULDER PREPARATION	LIN FT	\$9.50	4690	\$2,345.00					4690	\$2,345.00
14	2112.619	RECLAIMED AGGREGATE BASE PREPARATION	ROAD STA	\$300.00								
15	2105.607	EXCAVATION SPECIAL	CU YD	\$16.00								
16	2105.607	COMMON EXCAVATION	CU YD	\$16.00								
17	2123.510	COMMON LABORERS	HOURL	\$100.00	1	\$100.00	1	\$100.00	1	\$100.00	3	\$300.00
18	2123.610	SKID LOADER	HOURL	\$145.00	1	\$145.00	1	\$145.00	1	\$145.00	3	\$435.00
19	2123.610	STREET SWEEPER (WITH PICKUP BROOM AND WATER)	HOURL	\$200.00	1	\$200.00	1	\$200.00	1	\$200.00	3	\$600.00
20	2211.607	AGGREGATE BASE SPECIAL (CV)	CU YD	\$35.00	5	\$175.00					5	\$175.00
21	2215.504	FULL DEPTH RECLAMATION	SQ YD	\$2.00								
22	2232.504	MILL BITUMINOUS SURFACE (2.0")	SQ YD	\$2.00	7113	\$14,226.33					7113	\$14,226.33
23	2301.504	CONCRETE PAVEMENT 8"	SQ YD	\$90.00								
24	2302.518	SPOT FULL DEPTH REPAIR	SQ FT	\$2.50	1423	\$3,556.58					1423	\$3,556.58
25	2302.604	BITUMINOUS DRIVEWAY REPLACEMENT	SQ YD	\$45.00								
26	2360.509	TYPE SP 5 WEARING COURSE MIX (3.0)	TON	\$85.00	659	\$81,595.91	4	\$378.55			663	\$81,974.46
27	2360.509	TYPE SP 12.5 NONWEARING COURSE MIX (3.8)	TON	\$85.00			5	\$451.61			5	\$451.61
28	2503.503	12" RC PIPE SEWER DESIGN 300# CLASS V	LIN FT	\$75.00								
29	2503.601	TRACER WIRE SYSTEM (SANITARY)	LUMP SUM	\$500.00								
30	2503.602	CONNECT TO EXISTING STORM SEWER	EACH	\$1,300.00								
31	2503.602	CONNECT TO EXISTING SANITARY SEWER	EACH	\$1,850.00								
32	2503.603	8" PIPE SEWER	LIN FT	\$85.00								
33	2504.502	HYDRANT	EACH	\$5,500.00								
34	2504.602	HYDRANT RESTORATION	EACH	\$2,500.00								
35	2504.602	6" GATE VALVE REPLACEMENT	EACH	\$1,500.00								
36	2504.602	WATERMAIN EXPLORATORY EXCAVATION	HOURL	\$700.00								
37	2504.602	ADJUST VALVE BOX	EACH	\$325.00					6	\$1,950.00	6	\$1,950.00
38	2504.602	VALVE BOX MID SECTION	EACH	\$250.00					3	\$750.00	3	\$750.00
39	2504.602	WATERMAIN TEE	EACH	\$6,500.00								
40	2506.502	CASTING ASSEMBLY (SANITARY 700-7)	EACH	\$1,200.00			8	\$9,600.00			8	\$9,600.00
41	2506.502	CASTING ASSEMBLY (STORM 700-7)	EACH	\$1,200.00								
42	2506.502	CASTING ASSEMBLY (STORM NEENAH R-3250-DVSP)	EACH	\$1,550.00								
43	2506.502	CASTING ASSEMBLY (STORM NEENAH R-3250-EVSP)	EACH	\$1,300.00								
44	2506.503	CONSTRUCT DRAINAGE STRUCTURE 48-4020	LIN FT	\$1,000.00								
45	2506.503	CONSTRUCT DRAINAGE STRUCTURE DESIGN H	LIN FT	\$500.00								
46	2506.602	RECONSTRUCT DRAINAGE STRUCTURE	EACH	\$2,000.00								
47	2506.602	GROUT CATCH BASIN OR MANHOLE	CU YD	\$600.00								
48	2506.603	CONSTRUCT OUTSIDE DROP	LIN FT	\$1,400.00								
49	2506.603	SANITARY MANHOLE EXCESS DEPTH	LIN FT	\$500.00								
50	2521.518	6" CONCRETE WALK	SQ FT	\$17.50								
51	2521.518	3" BITUMINOUS WALK	SQ FT	\$3.50								
52	2531.503	CONCRETE CURB & GUTTER DESIGN B624	LIN FT	\$24.00								
53	2531.504	6" CONCRETE DRIVEWAY PAVEMENT	SQ YD	\$75.00								
54	2531.604	8" CONCRETE VALLEY GUTTER	SQ YD	\$97.50								
55	2531.618	TRUNCATED DOMES	SQ FT	\$65.00								
56	2540.602	MAIL BOX SUPPORT	EACH	\$125.00								
57	2563.601	TRAFFIC CONTROL	LUMP SUM	\$3,000.00	0.87	\$2,610.00	0.10	\$300.00	0.03	\$90.00	1	\$3,000.00
58	2564.518	SIGN PANELS TYPE C	SQ FT	\$60.00	6	\$375.00					6	\$375.00
59	2573.502	STORM DRAIN INLET PROTECTION	EACH	\$165.00								
60	2573.503	SEDIMENT CONTROL LOG TYPE WOOD FIBER	LIN FT	\$5.00								
61	2573.503	SILT FENCE, TYPE MS	LIN FT	\$4.00								
62	2573.501	STABILIZED CONSTRUCTION EXIT	EACH	\$1,200.00								
63	2574.507	SCREENED TOPSOIL BORROW	CU YD	\$45.00	58	\$2,610.00					58	\$2,610.00
64	2574.508	FERTILIZER TYPE 3 (10-10-20) (SEEDING)	POUND	\$1.75	7	\$11.55					7	\$11.55
65	2574.508	FERTILIZER TYPE 3 (22-5-10) (SOD)	POUND	\$1.75								
66	2575.504	SOD TYPE LAWN	SQ YD	\$17.50								
67	2575.508	SEED MIXTURE 22-111 (TEMPORARY SEEDING)	POUND	\$5.50								
68	2575.508	SEED MIXTURE 25-151	POUND	\$7.00	13	\$92.40					13	\$92.40
69	2575.508	HYDRAULIC REINFORCED FIBER MATRIX	POUND	\$3.50	231	\$808.50					231	\$808.50
70	2575.523	WATER	MGAL	\$45.00	10	\$450.00					10	\$450.00
71	2575.605	SEEDING	ACRE	\$60.00	0.11	\$66.00					0.11	\$66.00
72	2582.503	4" SOLID LINE PAINT	LIN FT	\$0.85								
73	2582.503	4" BROKEN LINE PAINT	LIN FT	\$0.85	1775	\$1,508.75					1775	\$1,508.75
74	2582.503	8" SOLID LINE PAINT	LIN FT	\$0.85								
75	2582.503	4" DOUBLE SOLID LINE PAINT	LIN FT	\$0.85	350	\$297.50					350	\$297.50

ESTIMATED CONSTRUCTION COST:	\$3,940,105.78	87%	\$120,414.53	11%	\$15,212.49	3%	\$3,535.00	100%	\$139,162.02
CONTINGENCIES (15%):	\$591,015.87		\$18,062.18		\$2,281.87		\$530.25		\$20,874.30
SUBTOTAL:	\$4,531,121.65		\$138,476.71		\$17,494.36		\$4,065.25	3.53%	\$160,036.32
ENGINEERING, LEGAL, FINANCE, ADMIN AND OTHER COSTS (25%):	\$1,132,780.41		\$34,619.18		\$4,373.59		\$1,016.31		\$40,009.08
ESTIMATED TOTAL PROJECT COST:	\$5,663,902.06		\$173,095.89		\$21,867.95		\$5,081.56		\$200,045.40



DATE	REV#	REVISIONS DESCRIPTION	BY

2024 MILL & OVERLAY AND FULL DEPTH RECLAMATION IMPROVEMENTS PROJECT
ENGINEER'S ESTIMATE AND ASSESSMENT CALCULATIONS
BAXTER, MN
 Monday, December 11, 2023

					NORTHWOODS DRIVE							
ITEM NO.	SPEC NO.	ITEM DESCRIPTION	UNIT	UNIT PRICE	ASSESSABLE ROADWAY		SANITARY SEWER		WATER		TOTAL PROJECT	
					ESTIMATED QUANTITY	TOTAL COST	ESTIMATED QUANTITY	TOTAL COST	ESTIMATED QUANTITY	TOTAL COST	ESTIMATED QUANTITY	TOTAL COST
1	2021.501	MOBILIZATION	LUMP SUM	\$10,000.00	0.88	\$8,800.00	0.08	\$800.00	0.04	\$400.00	1	\$10,000.00
2	2104.502	REMOVE CASTING (SANITARY)	EACH	\$235.00			3	\$705.00			3	\$705.00
3	2104.502	REMOVE CASTING (STORM)	EACH	\$235.00								
4	2104.502	REMOVE SIGN	EACH	\$40.00	2	\$80.00					2	\$80.00
5	2104.502	REMOVE MAIL BOX SUPPORT	EACH	\$45.00								
6	2104.503	SAWING CONCRETE PAVEMENT (FULL DEPTH)	LIN FT	\$7.50								
7	2104.503	SAWING BITUMINOUS PAVEMENT (FULL DEPTH)	LIN FT	\$4.00			84	\$336.00			84	\$336.00
8	2104.503	REMOVE SEWER PIPE (SANITARY)	LIN FT	\$15.00								
9	2104.503	REMOVE CURB & GUTTER	LIN FT	\$4.00								
10	2104.504	REMOVE CONCRETE PAVEMENT	SQ YD	\$10.00								
11	2104.504	REMOVE BITUMINOUS PAVEMENT	SQ YD	\$6.00			16	\$96.00			16	\$96.00
12	2105.604	DITCH EXCAVATION	SQ YD	\$10.00	50	\$500.00					50	\$500.00
13	2112.603	SHOULDER PREPARATION	LIN FT	\$9.50	2204	\$1,192.00					2204	\$1,192.00
14	2112.619	RECLAIMED AGGREGATE BASE PREPARATION	ROAD STA	\$300.00								
15	2105.607	EXCAVATION SPECIAL	CU YD	\$16.00								
16	2105.607	COMMON EXCAVATION	CU YD	\$16.00								
17	2123.510	COMMON LABORERS	HOURL	\$100.00	1	\$100.00	1	\$100.00	1	\$100.00	3	\$300.00
18	2123.610	SKID LOADER	HOURL	\$145.00	1	\$145.00	1	\$145.00	1	\$145.00	3	\$435.00
19	2123.610	STREET SWEEPER (WITH PICKUP BROOM AND WATER)	HOURL	\$200.00	1	\$200.00	1	\$200.00	1	\$200.00	3	\$600.00
20	2211.607	AGGREGATE BASE SPECIAL (CV)	CU YD	\$35.00	5	\$175.00					5	\$175.00
21	2215.504	FULL DEPTH RECLAMATION	SQ YD	\$2.00								
22	2232.504	MILL BITUMINOUS SURFACE (2.0")	SQ YD	\$2.00	3343	\$6,686.47					3343	\$6,686.47
23	2301.504	CONCRETE PAVEMENT 8"	SQ YD	\$90.00								
24	2302.518	SPOT FULL DEPTH REPAIR	SQ FT	\$2.50	669	\$1,671.37					669	\$1,671.37
25	2302.604	BITUMINOUS DRIVEWAY REPLACEMENT	SQ YD	\$45.00								
26	2360.508	TYPE SP 5 WEARING COURSE MIX (3.0)	TON	\$85.00	404	\$38,348.39	1	\$137.66			405	\$38,486.04
27	2360.508	TYPE SP 12.5 NONWEARING COURSE MIX (3.8)	TON	\$85.00			2	\$164.22			2	\$164.22
28	2503.503	12" RC PIPE SEWER DESIGN 300# CLASS V	LIN FT	\$75.00								
29	2503.601	TRACER WIRE SYSTEM (SANITARY)	LUMP SUM	\$500.00								
30	2503.602	CONNECT TO EXISTING STORM SEWER	EACH	\$1,300.00								
31	2503.602	CONNECT TO EXISTING SANITARY SEWER	EACH	\$1,850.00								
32	2503.603	8" PIPE SEWER	LIN FT	\$85.00								
33	2504.502	HYDRANT	EACH	\$5,500.00								
34	2504.602	HYDRANT RESTORATION	EACH	\$2,500.00								
35	2504.602	6" GATE VALVE REPLACEMENT	EACH	\$1,500.00								
36	2504.602	WATERMAIN EXPLORATORY EXCAVATION	HOURL	\$700.00								
37	2504.602	ADJUST VALVE BOX	EACH	\$325.00				4	\$1,300.00		4	\$1,300.00
38	2504.602	VALVE BOX MID SECTION	EACH	\$250.00				2	\$500.00		2	\$500.00
39	2504.602	WATERMAIN TEE	EACH	\$6,500.00								
40	2506.502	CASTING ASSEMBLY (SANITARY 700-7)	EACH	\$1,200.00			3	\$3,600.00			3	\$3,600.00
41	2506.502	CASTING ASSEMBLY (STORM 700-7)	EACH	\$1,200.00								
42	2506.502	CASTING ASSEMBLY (STORM NEENAH R-3250-DVSP)	EACH	\$1,550.00								
43	2506.502	CASTING ASSEMBLY (STORM NEENAH R-3250-EVSP)	EACH	\$1,300.00								
44	2506.503	CONSTRUCT DRAINAGE STRUCTURE 48-4020	LIN FT	\$1,000.00								
45	2506.503	CONSTRUCT DRAINAGE STRUCTURE DESIGN H	LIN FT	\$500.00								
46	2506.602	RECONSTRUCT DRAINAGE STRUCTURE	EACH	\$2,000.00								
47	2506.602	GROUT CATCH BASIN OR MANHOLE	CU YD	\$600.00								
48	2506.603	CONSTRUCT OUTSIDE DROP	LIN FT	\$1,400.00								
49	2506.603	SANITARY MANHOLE EXCESS DEPTH	LIN FT	\$500.00								
50	2521.518	6" CONCRETE WALK	SQ FT	\$17.50								
51	2521.518	3" BITUMINOUS WALK	SQ FT	\$3.50								
52	2531.503	CONCRETE CURB & GUTTER DESIGN B624	LIN FT	\$24.00								
53	2531.504	6" CONCRETE DRIVEWAY PAVEMENT	SQ YD	\$75.00								
54	2531.604	8" CONCRETE VALLEY GUTTER	SQ YD	\$97.50								
55	2531.618	TRUNCATED DOMES	SQ FT	\$65.00								
56	2540.602	MAIL BOX SUPPORT	EACH	\$125.00								
57	2563.601	TRAFFIC CONTROL	LUMP SUM	\$3,000.00	0.88	\$2,640.00	0.08	\$240.00	0.04	\$120.00	1	\$3,000.00
58	2564.518	SIGN PANELS TYPE C	SQ FT	\$60.00	13	\$780.00					13	\$780.00
59	2573.502	STORM DRAIN INLET PROTECTION	EACH	\$165.00								
60	2573.503	SEDIMENT CONTROL LOG TYPE WOOD FIBER	LIN FT	\$5.00								
61	2573.503	SILT FENCE, TYPE MS	LIN FT	\$4.00								
62	2573.501	STABILIZED CONSTRUCTION EXIT	EACH	\$1,200.00								
63	2574.507	SCREENED TOPSOIL BORROW	CU YD	\$45.00	27	\$1,215.00					27	\$1,215.00
64	2574.508	FERTILIZER TYPE 3 (10-10-20) (SEEDING)	POUND	\$1.75	3	\$5.25					3	\$5.25
65	2574.508	FERTILIZER TYPE 3 (22-5-10) (SOD)	POUND	\$1.75								
66	2575.504	SOD TYPE LAWN	SQ YD	\$17.50								
67	2575.508	SEED MIXTURE 22-111 (TEMPORARY SEEDING)	POUND	\$5.50								
68	2575.508	SEED MIXTURE 25-151	POUND	\$7.00	6	\$42.00					6	\$42.00
69	2575.508	HYDRAULIC REINFORCED FIBER MATRIX	POUND	\$3.50	105	\$367.50					105	\$367.50
70	2575.523	WATER	MGAL	\$45.00	10	\$450.00					10	\$450.00
71	2575.605	SEEDING	ACRE	\$600.00	0.05	\$30.00					0.05	\$30.00
72	2582.503	4" SOLID LINE PAINT	LIN FT	\$0.85								
73	2582.503	4" BROKEN LINE PAINT	LIN FT	\$0.85	720	\$612.00					720	\$612.00
74	2582.503	8" SOLID LINE PAINT	LIN FT	\$0.85								
75	2582.503	4" DOUBLE SOLID LINE PAINT	LIN FT	\$0.85	350	\$297.50					350	\$297.50

ESTIMATED CONSTRUCTION COST:	\$3,940,105.78	87%	\$64,216.47	9%	\$6,525.88	4%	\$2,765.00	100%	\$73,507.35
CONTINGENCIES (15%):	\$591,015.87		\$9,632.47		\$978.88		\$414.75		\$11,026.10
SUBTOTAL:	\$4,531,121.65		\$73,848.94		\$7,504.76		\$3,179.75	1.87%	\$84,533.45
ENGINEERING, LEGAL, FINANCE, ADMIN AND OTHER COSTS (25%):	\$1,132,780.41		\$18,462.24		\$1,876.19		\$794.94		\$21,133.36
ESTIMATED TOTAL PROJECT COST:	\$5,663,902.06		\$92,311.18		\$9,380.95		\$3,974.69		\$105,666.81



DATE	REV#	REVISIONS DESCRIPTION	BY

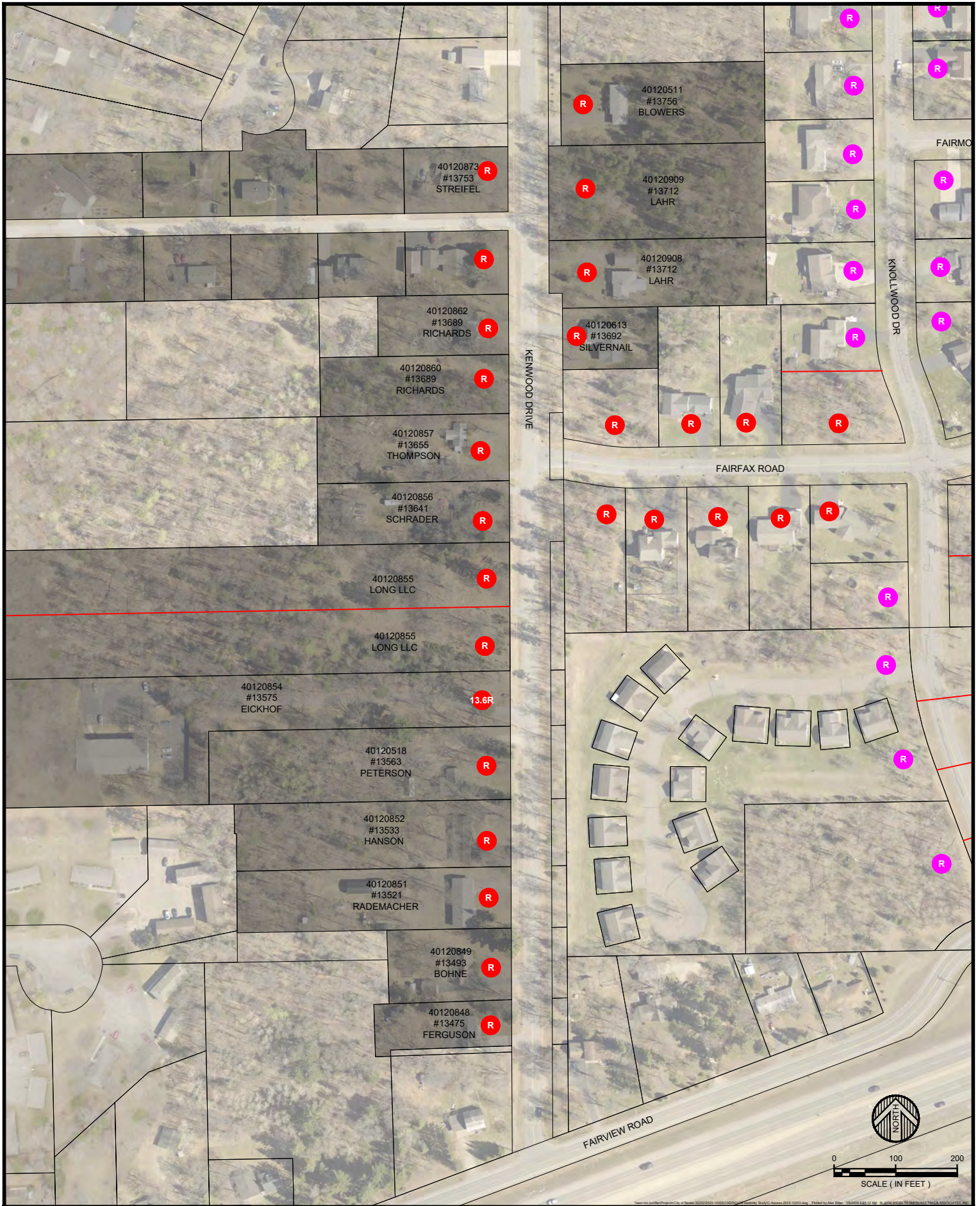
2024 MILL & OVERLAY AND FULL DEPTH RECLAMATION IMPROVEMENTS PROJECT
ENGINEER'S ESTIMATE AND ASSESSMENT CALCULATIONS
BAXTER, MN
 Monday, December 11, 2023

					CAMDEN ROAD							
ITEM NO.	SPEC NO.	ITEM DESCRIPTION	UNIT	UNIT PRICE	ASSESSABLE ROADWAY		SANITARY SEWER		WATER		TOTAL PROJECT	
					ESTIMATED QUANTITY	TOTAL COST	ESTIMATED QUANTITY	TOTAL COST	ESTIMATED QUANTITY	TOTAL COST	ESTIMATED QUANTITY	TOTAL COST
1	2021.501	MOBILIZATION	LUMP SUM	\$10,000.00	0.87	\$8,700.00	0.11	\$1,100.00	0.02	\$200.00	1	\$10,000.00
2	2104.502	REMOVE CASTING (SANITARY)	EACH	\$235.00			4	\$940.00			4	\$940.00
3	2104.502	REMOVE CASTING (STORM)	EACH	\$235.00								
4	2104.502	REMOVE SIGN	EACH	\$40.00	2	\$80.00					2	\$80.00
5	2104.502	REMOVE MAIL BOX SUPPORT	EACH	\$45.00								
6	2104.503	SAWING CONCRETE PAVEMENT (FULL DEPTH)	LIN FT	\$7.50								
7	2104.503	SAWING BITUMINOUS PAVEMENT (FULL DEPTH)	LIN FT	\$4.00			112	\$448.00			112	\$448.00
8	2104.503	REMOVE SEWER PIPE (SANITARY)	LIN FT	\$15.00								
9	2104.503	REMOVE CURB & GUTTER	LIN FT	\$4.00								
10	2104.504	REMOVE CONCRETE PAVEMENT	SQ YD	\$10.00								
11	2104.504	REMOVE BITUMINOUS PAVEMENT	SQ YD	\$6.00			22	\$130.67			22	\$130.67
12	2105.004	DITCH EXCAVATION	SQ YD	\$10.00	750	\$7,500.00	1980	\$990.00			750	\$7,500.00
13	2112.803	SHOULDER PREPARATION	LIN FT	\$0.50							1980	\$990.00
14	2112.819	RECLAIMED AGGREGATE BASE PREPARATION	ROAD STA	\$300.00								
15	2105.807	EXCAVATION SPECIAL	CU YD	\$16.00								
16	2105.807	COMMON EXCAVATION	CU YD	\$16.00								
17	2123.510	COMMON LABORERS	HOURL	\$100.00	1	\$100.00	1	\$100.00	1	\$100.00	3	\$300.00
18	2123.810	SKID LOADER	HOURL	\$145.00	1	\$145.00	1	\$145.00	1	\$145.00	3	\$435.00
19	2123.810	STREET SWEEPER (WITH PICKUP BROOM AND WATER)	HOURL	\$200.00	1	\$200.00	1	\$200.00	1	\$200.00	3	\$600.00
20	2211.607	AGGREGATE BASE SPECIAL (CV)	CU YD	\$35.00	10	\$350.00					10	\$350.00
21	2215.504	FULL DEPTH RECLAMATION	SQ YD	\$2.00								
22	2232.504	MILL BITUMINOUS SURFACE (2.0")	SQ YD	\$2.00	3003	\$6,006.00					3003	\$6,006.00
23	2301.504	CONCRETE PAVEMENT 8"	SQ YD	\$90.00								
24	2302.518	SPOT FULL DEPTH REPAIR	SQ FT	\$2.50	601	\$1,501.50					601	\$1,501.50
25	2302.604	BITUMINOUS DRIVEWAY REPLACEMENT	SQ YD	\$45.00								
26	2360.509	TYPE SP 5 WEARING COURSE MIX (3.0)	TON	\$85.00	383	\$32,448.16	2	\$168.28			385	\$34,637.44
27	2360.509	TYPE SP 12.5 NONWEARING COURSE MIX (3.8)	TON	\$85.00			3	\$255.80			3	\$255.80
28	2503.503	12" RC PIPE SEWER DESIGN 3008 CLASS V	LIN FT	\$75.00								
29	2503.801	TRACER WIRE SYSTEM (SANITARY)	LUMP SUM	\$500.00								
30	2503.802	CONNECT TO EXISTING STORM SEWER	EACH	\$1,300.00								
31	2503.802	CONNECT TO EXISTING SANITARY SEWER	EACH	\$1,850.00								
32	2503.803	8" PIPE SEWER	LIN FT	\$85.00								
33	2504.502	HYDRANT	EACH	\$5,500.00								
34	2504.602	HYDRANT RESTORATION	EACH	\$2,500.00								
35	2504.602	6" GATE VALVE REPLACEMENT	EACH	\$1,500.00								
36	2504.602	WATERMAIN EXPLORATORY EXCAVATION	HOURL	\$700.00								
37	2504.602	ADJUST VALVE BOX	EACH	\$325.00					1	\$325.00	1	\$325.00
38	2504.602	VALVE BOX MID SECTION	EACH	\$250.00					1	\$250.00	1	\$250.00
39	2504.602	WATERMAIN TEE	EACH	\$6,500.00								
40	2506.502	CASTING ASSEMBLY (SANITARY 700-7)	EACH	\$1,200.00			4	\$4,800.00			4	\$4,800.00
41	2506.502	CASTING ASSEMBLY (STORM 700-7)	EACH	\$1,200.00								
42	2506.502	CASTING ASSEMBLY (STORM NEENAH R-3250-DVSP)	EACH	\$1,550.00								
43	2506.502	CASTING ASSEMBLY (STORM NEENAH R-3250-EVSP)	EACH	\$1,300.00								
44	2506.503	CONSTRUCT DRAINAGE STRUCTURE 48-4020	LIN FT	\$1,000.00								
45	2506.503	CONSTRUCT DRAINAGE STRUCTURE DESIGN H	LIN FT	\$500.00								
46	2506.602	RECONSTRUCT DRAINAGE STRUCTURE	EACH	\$2,000.00								
47	2506.602	GROUT CATCH BASIN OR MANHOLE	CU YD	\$600.00								
48	2506.603	CONSTRUCT OUTSIDE DROP	LIN FT	\$1,400.00								
49	2506.603	SANITARY MANHOLE EXCESS DEPTH	LIN FT	\$500.00								
50	2521.518	6" CONCRETE WALK	SQ FT	\$17.50								
51	2521.518	3" BITUMINOUS WALK	SQ FT	\$3.50								
52	2531.503	CONCRETE CURB & GUTTER DESIGN B624	LIN FT	\$24.00								
53	2531.504	6" CONCRETE DRIVEWAY PAVEMENT	SQ YD	\$75.00								
54	2531.604	8" CONCRETE VALLEY GUTTER	SQ YD	\$97.50								
55	2531.618	TRUNCATED DOMES	SQ FT	\$65.00								
56	2540.602	MAIL BOX SUPPORT	EACH	\$125.00								
57	2563.601	TRAFFIC CONTROL	LUMP SUM	\$3,000.00	0.87	\$2,610.00	0.11	\$330.00	0.02	\$60.00	1	\$3,000.00
58	2564.518	SIGN PANELS TYPE C	SQ FT	\$60.00	13	\$780.00					13	\$780.00
59	2573.502	STORM DRAIN INLET PROTECTION	EACH	\$165.00								
60	2573.503	SEDIMENT CONTROL LOG TYPE WOOD FIBER	LIN FT	\$5.00								
61	2573.503	SILT FENCE, TYPE MS	LIN FT	\$4.00								
62	2573.501	STABILIZED CONSTRUCTION EXIT	EACH	\$1,200.00								
63	2574.507	SCREENED TOPSOIL BORROW	CU YD	\$45.00	26	\$1,125.00					26	\$1,125.00
64	2574.508	FERTILIZER TYPE 3 (10-10-20) (SEEDING)	POUND	\$1.75	3	\$5.25					3	\$5.25
65	2574.508	FERTILIZER TYPE 3 (22-5-10) (SOD)	POUND	\$1.75								
66	2575.504	SOD TYPE LAWN	SQ YD	\$17.50								
67	2575.508	SEED MIXTURE 22-111 (TEMPORARY SEEDING)	POUND	\$5.50								
68	2575.508	SEED MIXTURE 25-151	POUND	\$7.00	6	\$42.00					6	\$42.00
69	2575.508	HYDRAULIC REINFORCED FIBER MATRIX	POUND	\$3.50	105	\$367.50					105	\$367.50
70	2575.523	WATER	MGAL	\$45.00	10	\$450.00					10	\$450.00
71	2575.605	SEEDING	ACRE	\$600.00	0.05	\$30.00					0.05	\$30.00
72	2582.503	4" SOLID LINE PAINT	LIN FT	\$0.85								
73	2582.503	4" BROKEN LINE PAINT	LIN FT	\$0.85	290	\$246.50					290	\$246.50
74	2582.503	8" SOLID LINE PAINT	LIN FT	\$0.85								
75	2582.503	4" DOUBLE SOLID LINE PAINT	LIN FT	\$0.85	700	\$595.00					700	\$595.00

ESTIMATED CONSTRUCTION COST:	\$3,940,105.78	87%	\$66,241.91	11%	\$8,608.74	2%	\$1,280.00	100%	\$76,130.66
CONTINGENCIES (15%):	\$591,015.87		\$9,936.29		\$1,291.31		\$192.00		\$11,419.60
SUBTOTAL:	\$4,531,121.65		\$76,178.20		\$9,900.06		\$1,472.00	1.93%	\$87,550.26
ENGINEERING, LEGAL, FINANCE, ADMIN AND OTHER COSTS (25%):	\$1,132,780.41		19,044.6		\$2,475.01		\$368.00		\$21,887.56
ESTIMATED TOTAL PROJECT COST:	\$5,663,902.06		\$96,222.75		\$12,375.07		\$1,840.00		\$109,437.82



DATE	REV#	REVISIONS DESCRIPTION	BY



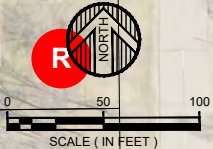
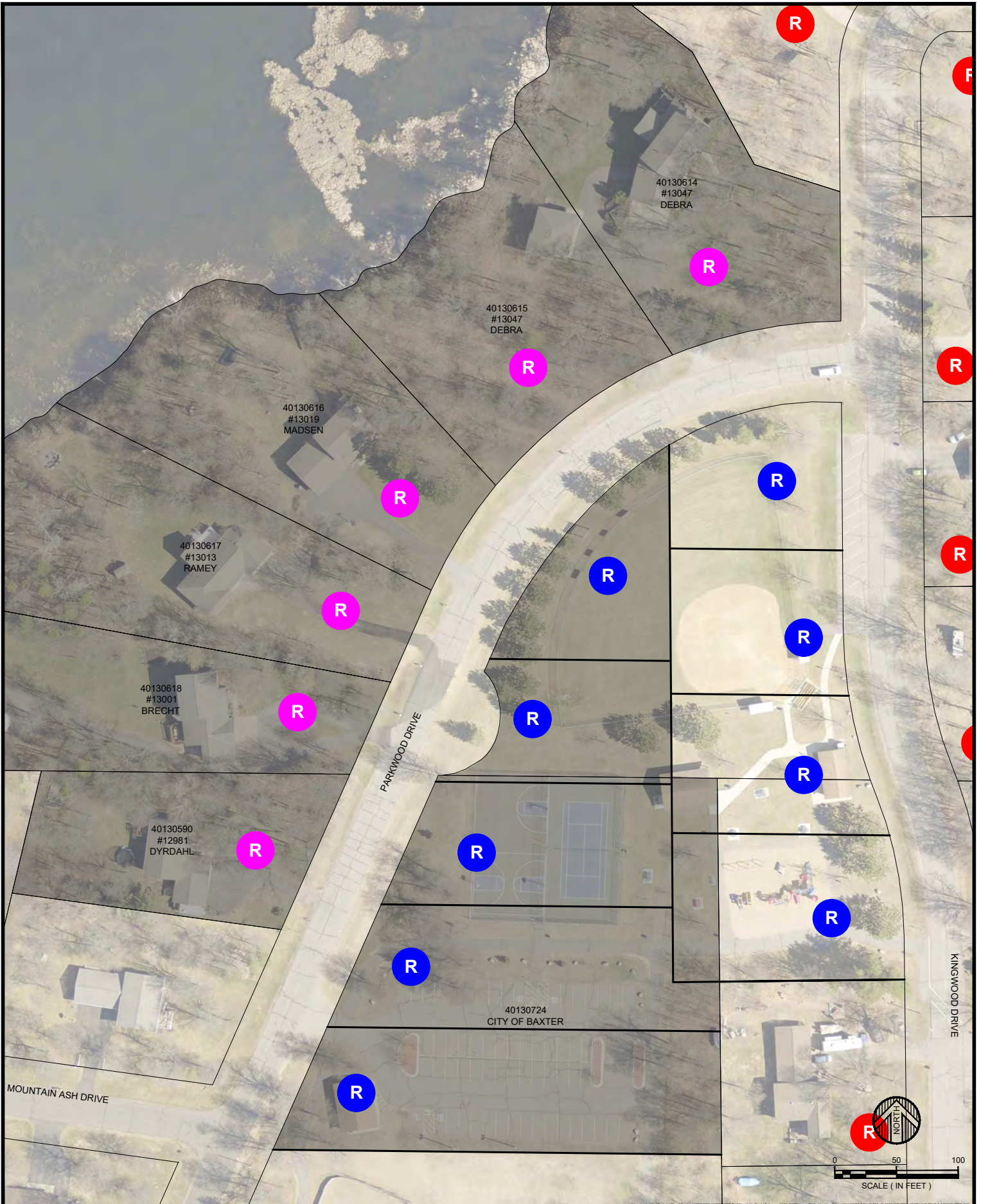
DATE	REV#	REVISIONS DESCRIPTION	BY

**2024 MILL & OVERLAY AND FULL DEPTH RECLAMATION IMPROVEMENTS PROJECT
ENGINEER'S ESTIMATE AND ASSESSMENT CALCULATIONS
BAXTER, MN
Monday, December 11, 2023**

RESIDENTIAL FDR

ITEM NO.	SPEC NO.	ITEM DESCRIPTION	UNIT	UNIT PRICE	PARKWOOD DRIVE							
					ASSESSABLE ROADWAY		SANITARY SEWER		WATER		TOTAL PROJECT	
					ESTIMATED QUANTITY	TOTAL COST	ESTIMATED QUANTITY	TOTAL COST	ESTIMATED QUANTITY	TOTAL COST	ESTIMATED QUANTITY	TOTAL COST
1	2021.501	MOBILIZATION	LUMP SUM	\$10,000.00	0.53	\$5,300.00	0.08	\$600.00	0.39	\$3,900.00	1	\$10,000.00
2	2104.502	REMOVE CASTING (SANITARY)	EACH	\$235.00			3	\$705.00			3	\$705.00
3	2104.502	REMOVE CASTING (STORM)	EACH	\$235.00								
4	2104.502	REMOVE SIGN	EACH	\$40.00	8	\$240.00					8	\$240.00
5	2104.502	REMOVE MAIL BOX SUPPORT	EACH	\$45.00								
6	2104.503	SAWING CONCRETE PAVEMENT (FULL DEPTH)	LN FT	\$7.50								
7	2104.503	SAWING BITUMINOUS PAVEMENT (FULL DEPTH)	LN FT	\$4.00			84	\$336.00			84	\$336.00
8	2104.503	REMOVE SEWER PIPE (SANITARY)	LN FT	\$15.00								
9	2104.503	REMOVE CURB & GUTTER	LN FT	\$4.00								
10	2104.504	REMOVE CONCRETE PAVEMENT	SQ YD	\$10.00								
11	2104.504	REMOVE BITUMINOUS PAVEMENT	SQ YD	\$6.00			16	\$96.00			16	\$96.00
12	2105.604	DITCH EXCAVATION	SQ YD	\$10.00	50	\$500.00					50	\$500.00
13	2112.603	SHOULDER PREPARATION	LN FT	\$9.50								
14	2112.619	RECLAIMED AGGREGATE BASE PREPARATION	ROAD STA	\$300.00								
15	2105.607	EXCAVATION SPECIAL	CU YD	\$16.00								
16	2105.607	COMMON EXCAVATION	CU YD	\$16.00								
17	2123.510	COMMON LABORERS	HOUR	\$100.00	2	\$200.00	2	\$200.00	2	\$200.00	6	\$600.00
18	2123.610	SKID LOADER	HOUR	\$145.00	2	\$290.00	2	\$290.00	2	\$290.00	6	\$870.00
19	2123.610	STREET SWEEPER (WITH PICKUP BROOM AND WATER)	HOUR	\$200.00	2	\$400.00	2	\$400.00	2	\$400.00	6	\$1,200.00
20	2211.607	AGGREGATE BASE SPECIAL (CV)	CU YD	\$35.00	12	\$420.00					12	\$420.00
21	2215.504	FULL DEPTH RECLAMATION	SQ YD	\$2.00								
22	2232.504	MILL BITUMINOUS SURFACE (2.0")	SQ YD	\$2.00	2666	\$5,332.60					2666	\$5,332.60
23	2301.504	CONCRETE PAVEMENT 8"	SQ YD	\$90.00								
24	2302.518	SPOT FULL DEPTH REPAIR	SQ FT	\$2.50								
25	2302.604	BITUMINOUS DRIVEWAY REPLACEMENT	SQ YD	\$45.00								
26	2360.509	TYPE SP 5 WEARING COURSE MIX (3.0)	TON	\$85.00	322	\$30,565.79	1	\$137.66			323	\$30,723.45
27	2360.509	TYPE SP 12.5 NONWEARING COURSE MIX (3.8)	TON	\$85.00			2	\$164.22			2	\$164.22
28	2503.503	12" RC PIPE SEWER DESIGN 3008 CLASS V	LN FT	\$75.00								
29	2503.601	TRACER WIRE SYSTEM (SANITARY)	LUMP SUM	\$500.00								
30	2503.602	CONNECT TO EXISTING STORM SEWER	EACH	\$1,300.00								
31	2503.602	CONNECT TO EXISTING SANITARY SEWER	EACH	\$1,850.00								
32	2503.603	8" PIPE SEWER	LN FT	\$85.00								
33	2504.502	HYDRANT	EACH	\$5,500.00								
34	2504.602	HYDRANT RESTORATION	EACH	\$2,500.00								
35	2504.602	6" GATE VALVE REPLACEMENT	EACH	\$1,500.00								
36	2504.602	WATERMAIN EXPLORATORY EXCAVATION	HOUR	\$700.00				4	\$2,800.00		4	\$2,800.00
37	2504.602	ADJUST VALVE BOX	EACH	\$325.00				1	\$325.00		1	\$325.00
38	2504.602	VALVE BOX MID SECTION	EACH	\$250.00				1	\$250.00		1	\$250.00
39	2504.602	WATERMAIN TEE	EACH	\$6,500.00				4	\$26,000.00		4	\$26,000.00
40	2506.502	CASTING ASSEMBLY (SANITARY 700-7)	EACH	\$1,200.00			3	\$3,600.00			3	\$3,600.00
41	2506.502	CASTING ASSEMBLY (STORM 700-7)	EACH	\$1,200.00								
42	2506.502	CASTING ASSEMBLY (STORM NEENAH R-3250-DVSP)	EACH	\$1,550.00								
43	2506.502	CASTING ASSEMBLY (STORM NEENAH R-3250-EVSP)	EACH	\$1,300.00								
44	2506.503	CONSTRUCT DRAINAGE STRUCTURE 48-4020	LN FT	\$1,000.00								
45	2506.503	CONSTRUCT DRAINAGE STRUCTURE DESIGN H	LN FT	\$500.00								
46	2506.602	RECONSTRUCT DRAINAGE STRUCTURE	EACH	\$2,000.00								
47	2506.602	GROUT CATCH BASIN OR MANHOLE	CU YD	\$600.00								
48	2506.603	CONSTRUCT OUTSIDE DROP	LN FT	\$1,400.00								
49	2506.603	SANITARY MANHOLE EXCESS DEPTH	LN FT	\$500.00								
50	2621.518	6" CONCRETE WALK	SQ FT	\$17.50								
51	2621.518	3" BITUMINOUS WALK	SQ FT	\$3.50								
52	2631.603	CONCRETE CURB & GUTTER DESIGN B624	LN FT	\$24.00								
53	2631.504	6" CONCRETE DRIVEWAY PAVEMENT	SQ YD	\$75.00								
54	2631.604	8" CONCRETE VALLEY GUTTER	SQ YD	\$97.50								
55	2631.618	TRUNCATED DOMES	SQ FT	\$65.00								
56	2640.602	MAIL BOX SUPPORT	EACH	\$125.00								
57	2663.601	TRAFFIC CONTROL	LUMP SUM	\$3,000.00	0.53	\$1,590.00	0.08	\$240.00	0.39	\$1,170.00	1	\$3,000.00
58	2664.518	SIGN PANELS TYPE C	SQ FT	\$60.00	26	\$1,575.00					26	\$1,575.00
59	2673.502	STORM DRAIN INLET PROTECTION	EACH	\$165.00								
60	2673.503	SEDIMENT CONTROL LOG TYPE WOOD FIBER	LN FT	\$5.00								
61	2673.503	SILT FENCE, TYPE MS	LN FT	\$4.00								
62	2673.501	STABILIZED CONSTRUCTION EXIT	EACH	\$1,200.00								
63	2674.507	SCREENED TOPSOIL BORROW	CU YD	\$45.00	22	\$990.00					22	\$990.00
64	2674.508	FERTILIZER TYPE 3 (10-10-20) (SEEDING)	POUND	\$1.75	2	\$4.20					2	\$4.20
65	2674.508	FERTILIZER TYPE 3 (22-5-10) (SOD)	POUND	\$1.75								
66	2675.504	SOD TYPE LAWN	SQ YD	\$17.50								
67	2675.508	SEED MIXTURE 22-111 (TEMPORARY SEEDING)	POUND	\$5.50								
68	2675.508	SEED MIXTURE 25-151	POUND	\$7.00	5	\$33.00					5	\$33.00
69	2675.508	HYDRAULIC REINFORCED FIBER MATRIX	POUND	\$3.50	84	\$294.00					84	\$294.00
70	2675.523	WATER	MGAL	\$45.00	10	\$450.00					10	\$450.00
71	2675.605	SEEDING	ACRE	\$600.00	0.04	\$24.00					0.04	\$24.00
72	2682.503	4" SOLID LINE PAINT	LN FT	\$0.85								
73	2682.503	4" BROKEN LINE PAINT	LN FT	\$0.85	880	\$748.00					880	\$748.00
74	2682.503	8" SOLID LINE PAINT	LN FT	\$0.85								
75	2682.503	4" DOUBLE SOLID LINE PAINT	LN FT	\$0.85								

ESTIMATED CONSTRUCTION COST:	\$3,940,105.78	54%	\$48,977.19	8%	\$6,970.88	39%	\$35,335.00	100%	\$91,283.07
CONTINGENCIES (15%):	\$591,015.87		\$7,346.58		\$1,045.63		\$5,300.25		\$13,692.46
SUBTOTAL:	\$4,531,121.65		\$56,323.77		\$8,016.51		\$40,635.25	2.32%	\$104,975.53
ENGINEERING, LEGAL, FINANCE, ADMIN AND OTHER COSTS (25%):	\$1,132,780.41		\$14,080.94		\$2,004.13		\$10,158.81		\$26,243.88
ESTIMATED TOTAL PROJECT COST:	\$5,663,902.06		\$70,404.72		\$10,020.63		\$50,794.06		\$131,219.41

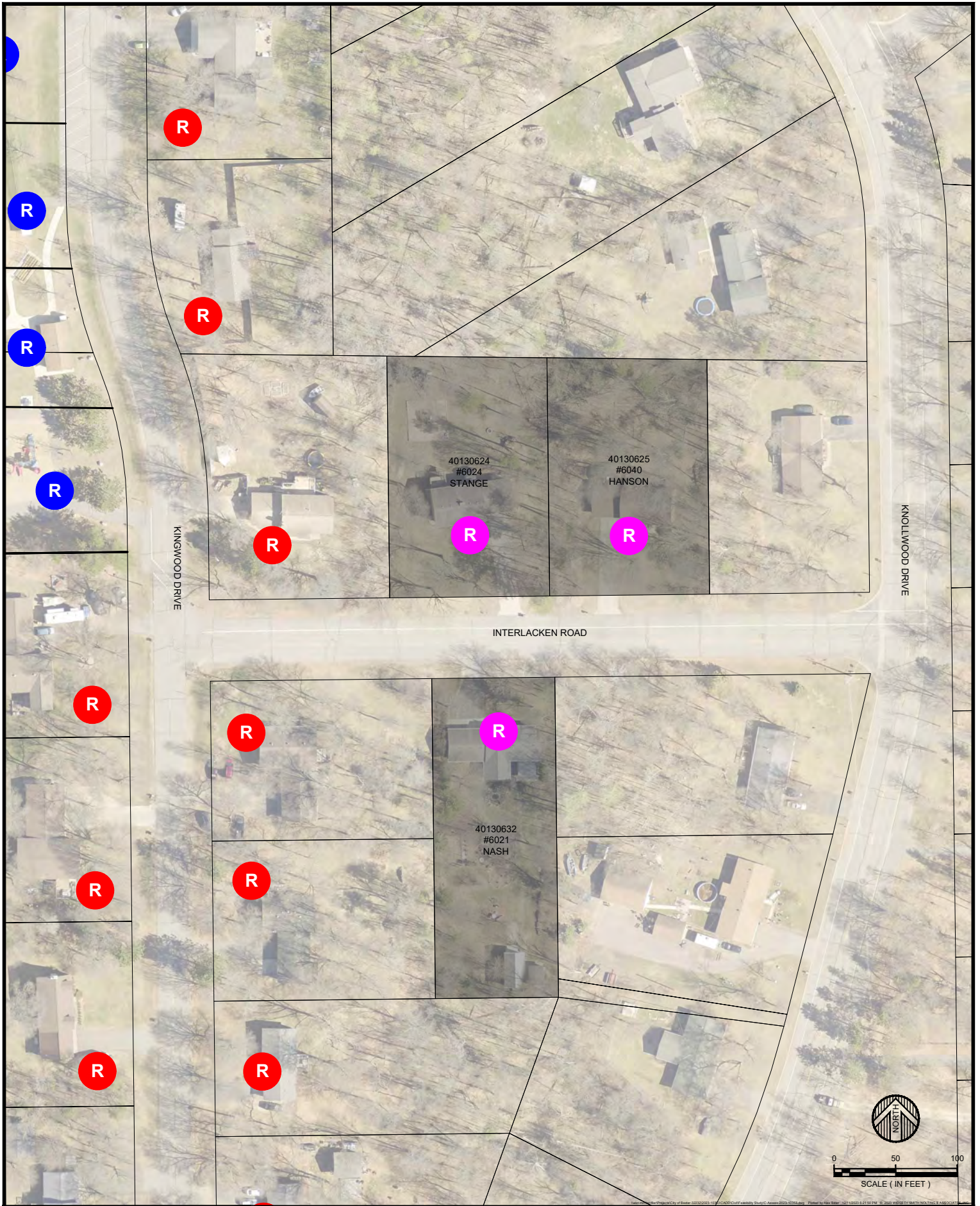


	I HEREBY CERTIFY THAT THIS PLAN, SPECIFICATION, OR REPORT WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MINNESOTA.		DATE: JUNE 2023 SCALE: AS SHOWN DRAWN BY: TJS CHECKED BY: ADB	2024 MILL & OVERLAY AND FDR IMPROVEMENTS CITY OF BAXTER BAXTER, MINNESOTA	SHEET NO. A-18															
	ALEX D BITTER DATE: LIC. NO. 57744	<table border="1"> <thead> <tr> <th>DATE</th> <th>REV#</th> <th>REVISIONS DESCRIPTION</th> <th>BY</th> </tr> </thead> <tbody> <tr><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td></tr> </tbody> </table>	DATE	REV#	REVISIONS DESCRIPTION	BY													JOB NUMBER: 2023-10353	PARKWOOD DRIVE ASSESSMENT MAP
DATE	REV#	REVISIONS DESCRIPTION	BY																	

2024 MILL & OVERLAY AND FULL DEPTH RECLAMATION IMPROVEMENTS PROJECT
ENGINEER'S ESTIMATE AND ASSESSMENT CALCULATIONS
BAXTER, MN
 Monday, December 11, 2023

					INTERLACKEN ROAD									
ITEM NO.	SPEC NO.	ITEM DESCRIPTION	UNIT	UNIT PRICE	ASSESSABLE ROADWAY		TRAIL		SANITARY SEWER		WATER		TOTAL PROJECT	
					ESTIMATED QUANTITY	TOTAL COST	ESTIMATED QUANTITY	TOTAL COST	ESTIMATED QUANTITY	TOTAL COST	ESTIMATED QUANTITY	TOTAL COST	ESTIMATED QUANTITY	TOTAL COST
1	2021.501	MOBILIZATION	LUMP SUM	\$10,000.00	0.63	\$6,300.00	0.23	\$2,300.00	0.03	\$300.00	0.11	\$1,100.00	1	\$10,000.00
2	2104.502	REMOVE CASTING (SANITARY)	EACH	\$235.00					1	\$235.00			1	\$235.00
3	2104.502	REMOVE CASTING (STORM)	EACH	\$235.00										
4	2104.502	REMOVE SIGN	EACH	\$40.00	1	\$40.00							1	\$40.00
5	2104.502	REMOVE MAIL BOX SUPPORT	EACH	\$45.00	3	\$135.00							3	\$135.00
6	2104.503	SAWING CONCRETE PAVEMENT (FULL DEPTH)	LN FT	\$7.50	30	\$225.00							30	\$225.00
7	2104.503	SAWING BITUMINOUS PAVEMENT (FULL DEPTH)	LN FT	\$4.00	85	\$340.00			28	\$112.00			113	\$452.00
8	2104.503	REMOVE SEWER PIPE (SANITARY)	LN FT	\$16.00										
9	2104.503	REMOVE CURB & GUTTER	LN FT	\$4.00										
10	2104.504	REMOVE CONCRETE PAVEMENT	SO YD	\$10.00	58	\$580.00			5	\$54.44			61	\$634.44
11	2104.504	REMOVE BITUMINOUS PAVEMENT	SO YD	\$6.00	32	\$192.00							32	\$192.00
12	2105.604	DITCH EXCAVATION	SO YD	\$10.00	50	\$500.00							50	\$500.00
13	2112.603	SHOULDER PREPARATION	LN FT	\$0.50										
14	2112.619	RECLAIMED AGGREGATE BASE PREPARATION	ROAD STA	\$300.00	7	\$2,100.00							7	\$2,100.00
15	2105.607	EXCAVATION SPECIAL	CU YD	\$16.00	169	\$2,704.00	65	\$1,042.22					235	\$3,746.22
16	2105.607	COMMON EXCAVATION	CU YD	\$15.00										
17	2123.510	COMMON LABORERS	HR	\$100.00	6	\$600.00	6	\$600.00	6	\$600.00	6	\$600.00	24	\$2,400.00
18	2123.610	SKID LOADER	HR	\$145.00	6	\$870.00	6	\$870.00	6	\$870.00	6	\$870.00	24	\$3,480.00
19	2123.610	STREET SWEEP (WITH PICKUP BROOM AND WATER)	HR	\$200.00	6	\$1,200.00	6	\$1,200.00	6	\$1,200.00	6	\$1,200.00	24	\$4,800.00
20	2211.607	AGGREGATE BASE SPECIAL (2")	CU YD	\$35.00	12	\$420.00							12	\$420.00
21	2215.504	FULL DEPTH RECLAMATION	SO YD	\$2.00	1820	\$3,640.00	704	\$1,407.00					2523	\$5,047.00
22	2332.504	MILL BITUMINOUS SURFACE (2")	SO YD	\$2.00										
23	2301.504	CONCRETE PAVEMENT 8"	SO YD	\$90.00										
24	2302.518	SPOT FULL DEPTH REPAIR	SO FT	\$2.00										
25	2302.504	BITUMINOUS DRIVEWAY REPLACEMENT	SO YD	\$42.00	32	\$1,344.00							32	\$1,344.00
26	2305.509	TYPE SP 9.5 WEARING COURSE MIX (3.C)	TON	\$95.00	168	\$15,720.00	85	\$8,075.00	0.45	\$42.75			253	\$23,837.75
27	2305.509	TYPE SP 12.5 NON-WEARING COURSE MIX (3.B)	TON	\$85.00	221	\$18,785.00	85	\$7,225.00	1	\$51.32			306	\$26,061.32
28	2503.503	12" RC PIPE SEWER DESIGN 3006 CLASS V	LN FT	\$75.00										
29	2503.601	TRACER WIRE SYSTEM (SANITARY)	LUMP SUM	\$500.00										
30	2503.602	CONNECT TO EXISTING STORM SEWER	EACH	\$1,300.00										
31	2503.602	CONNECT TO EXISTING SANITARY SEWER	EACH	\$1,800.00										
32	2503.603	8" PIPE SEWER	LN FT	\$85.00										
33	2504.502	HYDRANT	EACH	\$5,500.00							1	\$5,500.00	1	\$5,500.00
34	2504.602	HYDRANT RESTORATION	EACH	\$2,500.00							1	\$2,500.00	1	\$2,500.00
35	2504.602	8" GATE VALVE REPLACEMENT	EACH	\$1,500.00							1	\$1,500.00	1	\$1,500.00
36	2504.602	WATERMAIN EXCAVATORY EXCAVATION	HR	\$700.00							4	\$2,800.00	4	\$2,800.00
37	2504.602	ADJUST VALVE BOX	EACH	\$325.00							2	\$650.00	2	\$650.00
38	2504.602	VALVE BOX MID SECTION	EACH	\$250.00							1	\$250.00	1	\$250.00
39	2504.602	WATERMAIN TEE	EACH	\$6,500.00										
40	2506.502	CASTING ASSEMBLY (SANITARY 700-7)	EACH	\$1,200.00					1	\$1,200.00			1	\$1,200.00
41	2506.502	CASTING ASSEMBLY (STORM 700-7)	EACH	\$1,200.00										
42	2506.502	CASTING ASSEMBLY (STORM NEENAH R-3250-EVSP)	EACH	\$1,500.00										
43	2506.502	CASTING ASSEMBLY (STORM NEENAH R-3250-EVSP)	EACH	\$1,300.00										
44	2506.503	CONSTRUCT DRAINAGE STRUCTURE 48-4020	LN FT	\$1,000.00										
45	2506.503	CONSTRUCT DRAINAGE STRUCTURE DESIGN H	LN FT	\$500.00										
46	2506.602	RECONSTRUCT DRAINAGE STRUCTURE	EACH	\$2,000.00										
47	2506.602	CROUT CATCH BASIN OR MANHOLE	CU YD	\$600.00					0.25	\$150.00			0	\$150.00
48	2506.603	CONSTRUCT OUTSIDE DROP	LN FT	\$1,400.00										
49	2506.603	SANITARY MANHOLE EXCESS DEPTH	LN FT	\$500.00										
50	2521.518	6" CONCRETE WALK	SO FT	\$17.50										
51	2521.518	3" BITUMINOUS WALK	SO FT	\$3.50										
52	2531.503	CONCRETE CURB & GUTTER DESIGN B624	LN FT	\$24.00										
53	2531.504	8" CONCRETE DRIVEWAY PAVEMENT	SO YD	\$75.00	60	\$4,500.00							60	\$4,500.00
54	2531.604	8" CONCRETE VALLEY GUTTER	SO YD	\$97.50										
55	2531.618	TRUNCATED DOMES	SO FT	\$65.00										
56	2540.602	MAIL BOX SUPPORT	EACH	\$125.00	3	\$375.00							3	\$375.00
57	2563.601	TRAFFIC CONTROL	LUMP SUM	\$3,000.00	0.63	\$1,890.00	0.23	\$690.00	0.03	\$90.00	0.11	\$330.00	1	\$3,000.00
58	2564.518	SIGN PANELS TYPE C	SO FT	\$60.00	6	\$375.00							6	\$375.00
59	2573.502	STORM DRAIN INLET PROTECTION	EACH	\$165.00										
60	2573.503	SEDIMENT CONTROL LOG TYPE WOOD FIBER	LN FT	\$5.00	100	\$500.00							100	\$500.00
61	2573.503	SKT FENCE TYPE MS	LN FT	\$4.00										
62	2573.601	STABILIZED CONSTRUCTION EXIT	EACH	\$1,200.00	1	\$1,200.00							1	\$1,200.00
63	2574.507	SCREENED TOPSOIL BERMROW	CU YD	\$40.00	50	\$2,000.00							50	\$2,000.00
64	2574.508	FERTILIZER TYPE 3 (16-10-20) (SEEDING)	POUND	\$1.75										
65	2574.508	FERTILIZER TYPE 3 (22-5-10) (SOO)	POUND	\$1.75	250	\$437.50							250	\$437.50
66	2575.504	SOD TYPE LAWN	SO YD	\$17.50	402	\$7,035.00							402	\$7,035.00
67	2575.508	SEED MIXTURE 22-111 (TEMPORARY SEEDING)	POUND	\$5.50										
68	2575.508	SEED MIXTURE 25-151	POUND	\$7.00										
69	2575.508	HYDRALIC REINFORCED FIBER MATRIX	POUND	\$3.00										
70	2575.523	WATER	MGAL	\$45.00	10	\$450.00							10	\$450.00
71	2575.605	SEEDING	ACRE	\$600.00										
72	2582.503	4" SOLID LINE PAINT	LN FT	\$0.85										
73	2582.503	4" BROKEN LINE PAINT	LN FT	\$0.85	500	\$425.00							500	\$425.00
74	2582.503	2" SOLID LINE PAINT	LN FT	\$0.85	500	\$425.00							500	\$425.00
75	2582.503	4" DOUBLE SOLID LINE PAINT	LN FT	\$0.85										

ESTIMATED CONSTRUCTION COST:	\$3,940,105.78	62%	\$75,662.45	19%	\$23,399.79	4%	\$4,905.78	14%	\$17,300.00	100%	\$121,268.03
CONTINGENCIES (15%):	\$591,015.87		\$11,349.37		\$3,509.97		\$735.87		\$2,595.00		\$16,190.20
SUBTOTAL:	\$4,531,121.65		\$87,011.82		\$26,909.76		\$5,641.65		\$19,895.00	3.08%	\$119,458.23
ENGINEERING, LEGAL, FINANCE, ADMIN AND OTHER COSTS (25%):	\$1,132,780.41		\$21,752.95		\$6,727.44		\$1,410.41		\$4,973.75		\$34,864.56
ESTIMATED TOTAL PROJECT COST:	\$5,663,902.06		\$108,764.77		\$33,637.20		\$7,052.06		\$24,868.75		\$174,322.79



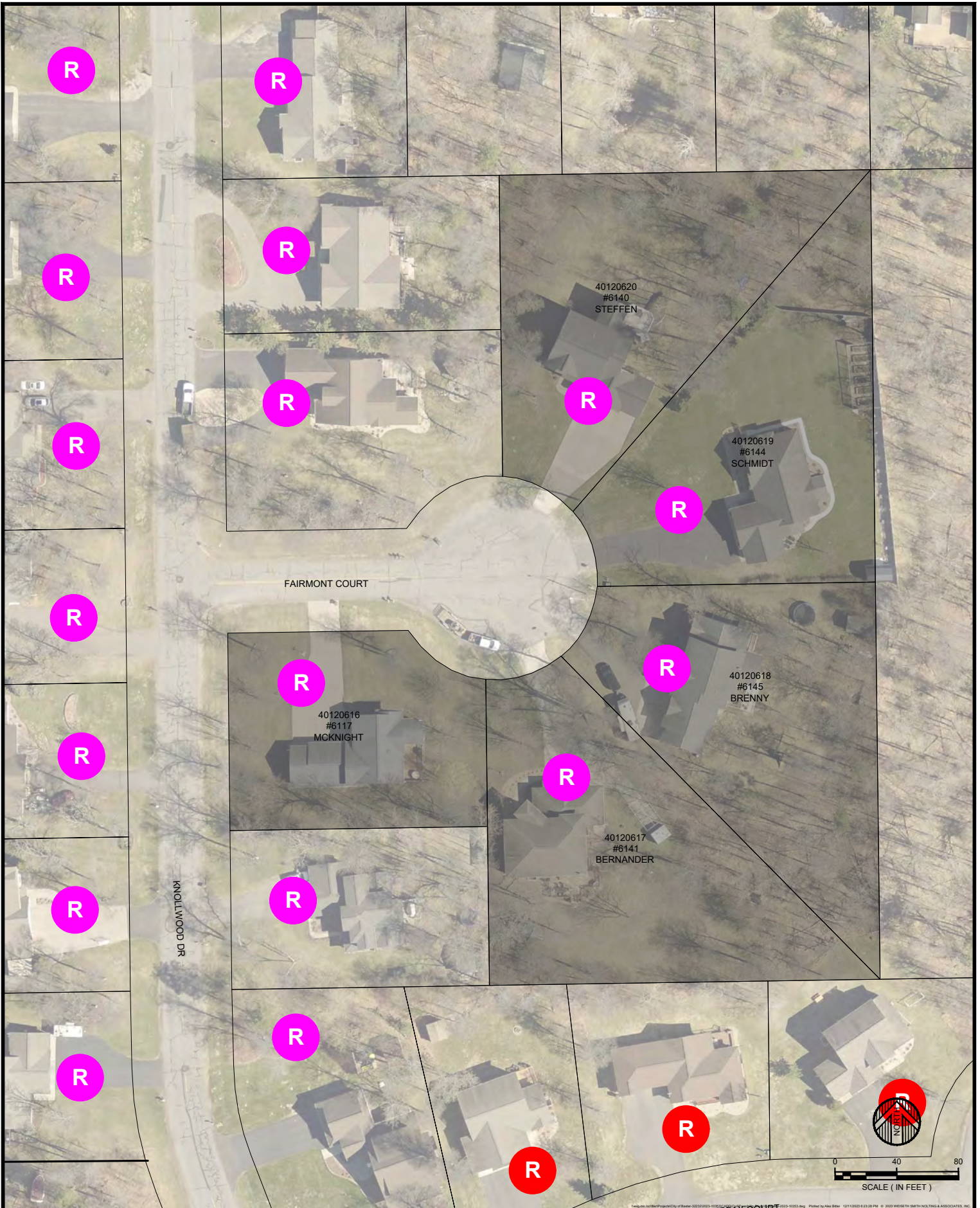
DATE	REV#	REVISIONS DESCRIPTION	BY

DATE: JUNE 2023
 SCALE: AS SHOWN
 DRAWN BY: TJS
 CHECKED BY: ADB
 JOB NUMBER: 2023-10353

2024 MILL & OVERLAY AND FULL DEPTH RECLAMATION IMPROVEMENTS PROJECT
ENGINEER'S ESTIMATE AND ASSESSMENT CALCULATIONS
BAXTER, MN
 Monday, December 11, 2023

					FAIRMONT COURT							
ITEM NO.	SPEC NO.	ITEM DESCRIPTION	UNIT	UNIT PRICE	ASSESSABLE ROADWAY		SANITARY SEWER		WATER		TOTAL PROJECT	
					ESTIMATED QUANTITY	TOTAL COST	ESTIMATED QUANTITY	TOTAL COST	ESTIMATED QUANTITY	TOTAL COST	ESTIMATED QUANTITY	TOTAL COST
1	2021.501	MOBILIZATION	LUMP SUM	\$10,000.00	0.83	\$8,300.00	0.10	\$1,000.00	0.07	\$700.00	1	\$10,000.00
2	2104.502	REMOVE CASTING (SANITARY)	EACH	\$235.00			1	\$235.00			1	\$235.00
3	2104.502	REMOVE CASTING (STORM)	EACH	\$235.00								
4	2104.502	REMOVE SIGN	EACH	\$40.00	1	\$40.00					1	\$40.00
5	2104.502	REMOVE MAIL BOX SUPPORT	EACH	\$45.00	5	\$225.00					5	\$225.00
6	2104.503	SAWING CONCRETE PAVEMENT (FULL DEPTH)	LIN FT	\$7.50	60	\$450.00					60	\$450.00
7	2104.503	SAWING BITUMINOUS PAVEMENT (FULL DEPTH)	LIN FT	\$4.00	40	\$160.00	28	\$112.00			68	\$272.00
8	2104.503	REMOVE SEWER PIPE (SANITARY)	LIN FT	\$15.00								
9	2104.503	REMOVE CURB & GUTTER	LIN FT	\$4.00								
10	2104.504	REMOVE CONCRETE PAVEMENT	SQ YD	\$10.00	124	\$1,240.00					124	\$1,240.00
11	2104.504	REMOVE BITUMINOUS PAVEMENT	SQ YD	\$6.00	85	\$510.00	5	\$32.67			90	\$542.67
12	2105.604	DITCH EXCAVATION	SQ YD	\$10.00	50	\$500.00					50	\$500.00
13	2112.603	SHOULDER PREPARATION	LIN FT	\$9.50								
14	2112.619	RECLAIMED AGGREGATE BASE PREPARATION	ROAD STA	\$300.00	3	\$900.00					3	\$900.00
15	2105.607	EXCAVATION SPECIAL	CU YD	\$16.00	107	\$1,712.54					107	\$1,712.54
16	2105.607	COMMON EXCAVATION	CU YD	\$15.00								
17	2123.510	COMMON LABORERS	HOUR	\$100.00	6	\$600.00	6	\$600.00	6	\$600.00	18	\$1,800.00
18	2123.610	SKID LOADER	HOUR	\$145.00	6	\$870.00	6	\$870.00	6	\$870.00	18	\$2,610.00
19	2123.610	STREET SWEEPER (WITH PICKUP BROOM AND WATER)	HOUR	\$200.00	6	\$1,200.00	6	\$1,200.00	6	\$1,200.00	18	\$3,600.00
20	2211.607	AGGREGATE BASE SPECIAL (CV)	CU YD	\$35.00	12	\$420.00					12	\$420.00
21	2215.504	FULL DEPTH RECLAMATION	SQ YD	\$2.00	828	\$1,656.20					828	\$1,656.20
22	2232.504	MILL BITUMINOUS SURFACE (2.0")	SQ YD	\$2.00								
23	2301.504	CONCRETE PAVEMENT 8"	SQ YD	\$90.00								
24	2302.518	SPOT FULL DEPTH REPAIR	SQ FT	\$2.50								
25	2302.604	BITUMINOUS DRIVEWAY REPLACEMENT	SQ YD	\$45.00	85	\$3,825.00					85	\$3,825.00
26	2360.509	TYPE SP 5 WEARING COURSE MIX (3.5)	TON	\$95.00	75	\$7,125.51	0.45	\$43.02			75	\$7,167.52
27	2360.509	TYPE SP 12.5 NONWEARING COURSE MIX (3.8)	TON	\$85.00	100	\$8,499.41	0.60	\$51.32			101	\$8,550.73
28	2503.503	12" RC PIPE SEWER DESIGN 300# CLASS V	LIN FT	\$75.00								
29	2503.601	TRACER WIRE SYSTEM (SANITARY)	LUMP SUM	\$500.00								
30	2503.602	CONNECT TO EXISTING STORM SEWER	EACH	\$1,300.00								
31	2503.602	CONNECT TO EXISTING SANITARY SEWER	EACH	\$1,850.00								
32	2503.603	8" PIPE SEWER	LIN FT	\$85.00								
33	2504.502	HYDRANT	EACH	\$5,500.00								
34	2504.602	HYDRANT RESTORATION	EACH	\$2,500.00								
35	2504.602	6" GATE VALVE REPLACEMENT	EACH	\$1,500.00								
36	2504.602	WATERMAIN EXPLORATORY EXCAVATION	HOUR	\$700.00								
37	2504.602	ADJUST VALVE BOX	EACH	\$325.00				1	\$325.00		1	\$325.00
38	2504.602	VALVE BOX MID SECTION	EACH	\$250.00				1	\$250.00		1	\$250.00
39	2504.602	WATERMAIN TEE	EACH	\$6,500.00								
40	2506.502	CASTING ASSEMBLY (SANITARY 700-7)	EACH	\$1,200.00			1	\$1,200.00			1	\$1,200.00
41	2506.502	CASTING ASSEMBLY (STORM 700-7)	EACH	\$1,200.00								
42	2506.502	CASTING ASSEMBLY (STORM NEENAH R-3250-DVSP)	EACH	\$1,550.00								
43	2506.502	CASTING ASSEMBLY (STORM NEENAH R-3250-EVSP)	EACH	\$1,300.00								
44	2506.503	CONSTRUCT DRAINAGE STRUCTURE 48-4020	LIN FT	\$1,000.00								
45	2506.503	CONSTRUCT DRAINAGE STRUCTURE DESIGN H	LIN FT	\$500.00								
46	2506.602	RECONSTRUCT DRAINAGE STRUCTURE	EACH	\$2,000.00								
47	2506.602	GROUT CATCH BASIN OR MANHOLE	CU YD	\$600.00			0.25	\$150.00			0	\$150.00
48	2506.603	CONSTRUCT OUTSIDE DROP	LIN FT	\$1,400.00								
49	2506.603	SANITARY MANHOLE EXCESS DEPTH	LIN FT	\$500.00								
50	2521.518	6" CONCRETE WALK	SQ FT	\$17.50								
51	2521.518	3" BITUMINOUS WALK	SQ FT	\$3.50								
52	2531.603	CONCRETE CURB & GUTTER DESIGN B624	LIN FT	\$24.00								
53	2531.504	6" CONCRETE DRIVEWAY PAVEMENT	SQ YD	\$75.00	110	\$8,250.00					110	\$8,250.00
54	2531.604	8" CONCRETE VALLEY GUTTER	SQ YD	\$97.50								
55	2531.618	TRUNCATED DOMES	SQ FT	\$65.00								
56	2540.602	MAIL BOX SUPPORT	EACH	\$125.00	5	\$625.00					5	\$625.00
57	2563.601	TRAFFIC CONTROL	LUMP SUM	\$3,000.00	0.83	\$2,490.00	0.10	\$300.00	0.07	\$210.00	1	\$3,000.00
58	2564.518	SIGN PANELS TYPE C	SQ FT	\$60.00	6	\$375.00					6	\$375.00
59	2573.502	STORM DRAIN INLET PROTECTION	EACH	\$165.00								
60	2573.503	SEDIMENT CONTROL LOG TYPE WOOD FIBER	LIN FT	\$5.00	100	\$500.00					100	\$500.00
61	2573.503	SILT FENCE, TYPE MS	LIN FT	\$4.00								
62	2573.501	STABILIZED CONSTRUCTION EXIT	EACH	\$1,200.00								
63	2574.507	SCREENED TOPSOIL BORROW	CU YD	\$45.00	21	\$945.00					21	\$945.00
64	2574.508	FERTILIZER TYPE 3 (10-10-20) (SEEDING)	POUND	\$1.75								
65	2574.508	FERTILIZER TYPE 3 (22-5-10) (SOD)	POUND	\$1.75	113	\$197.75					113	\$197.75
66	2575.504	SOD TYPE LAWN	SQ YD	\$17.50	182	\$3,185.00					182	\$3,185.00
67	2575.508	SEED MIXTURE 22-111 (TEMPORARY SEEDING)	POUND	\$5.50								
68	2575.508	SEED MIXTURE 25-151	POUND	\$7.00								
69	2575.508	HYDRAULIC REINFORCED FIBER MATRIX	POUND	\$3.50								
70	2575.523	WATER	MGAL	\$45.00	10	\$450.00					10	\$450.00
71	2575.605	SEEDING	ACRE	\$600.00								
72	2582.503	4" SOLID LINE PAINT	LIN FT	\$0.85								
73	2582.503	4" BROKEN LINE PAINT	LIN FT	\$0.85								
74	2582.503	8" SOLID LINE PAINT	LIN FT	\$0.85								
75	2582.503	4" DOUBLE SOLID LINE PAINT	LIN FT	\$0.85	130	\$110.50					130	\$110.50

ESTIMATED CONSTRUCTION COST:	\$3,940,105.78	85%	\$55,365.91	9%	\$5,794.00	6%	\$4,155.00	100%	\$65,314.91
CONTINGENCIES (15%):	\$591,015.87		\$8,304.89		\$869.10		\$623.25		\$9,797.24
SUBTOTAL:	\$4,531,121.65		\$63,670.80		\$6,663.10		\$4,778.25	1.66%	\$75,112.15
ENGINEERING, LEGAL, FINANCE, ADMIN AND OTHER COSTS (25%):	\$1,132,780.41		\$15,917.70		\$1,665.78		\$1,194.56		\$18,778.04
ESTIMATED TOTAL PROJECT COST:	\$5,663,902.06		\$79,588.49		\$8,328.88		\$5,972.81		\$93,890.19

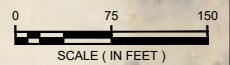
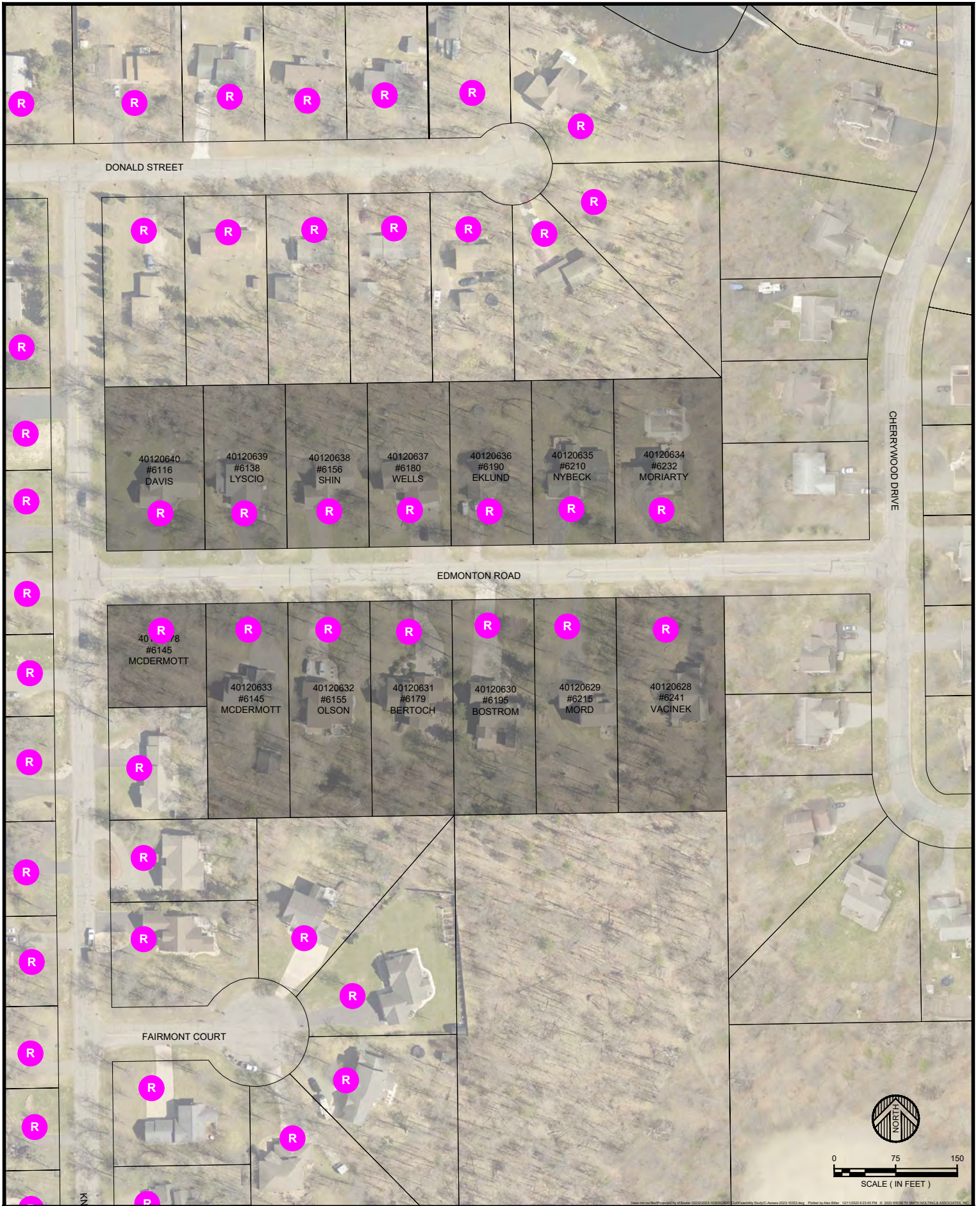


DATE	REV#	REVISIONS DESCRIPTION	BY

**2024 MILL & OVERLAY AND FULL DEPTH RECLAMATION IMPROVEMENTS PROJECT
ENGINEER'S ESTIMATE AND ASSESSMENT CALCULATIONS
BAXTER, MN
Monday, December 11, 2023**

					EDMONTON ROAD							
ITEM NO.	SPEC NO.	ITEM DESCRIPTION	UNIT	UNIT PRICE	ASSESSABLE ROADWAY		SANITARY SEWER		WATER		TOTAL PROJECT	
					ESTIMATED QUANTITY	TOTAL COST	ESTIMATED QUANTITY	TOTAL COST	ESTIMATED QUANTITY	TOTAL COST	ESTIMATED QUANTITY	TOTAL COST
1	2021.501	MOBILIZATION	LUMP SUM	\$10,000.00	0.93	\$9,282.00	0.05	\$471.00	0.02	\$247.00	1	\$10,000.00
2	2104.502	REMOVE CASTING (SANITARY)	EACH	\$235.00			2	\$470.00			2	\$470.00
3	2104.502	REMOVE CASTING (STORM)	EACH	\$235.00								
4	2104.502	REMOVE SIGN	EACH	\$40.00	2	\$80.00					2	\$80.00
5	2104.502	REMOVE MAIL BOX SUPPORT	EACH	\$45.00	13	\$585.00					13	\$585.00
6	2104.503	SAWING CONCRETE PAVEMENT (FULL DEPTH)	LIN FT	\$7.50	45	\$337.50					45	\$337.50
7	2104.503	SAWING BITUMINOUS PAVEMENT (FULL DEPTH)	LIN FT	\$4.00	220	\$880.00	56	\$224.00			276	\$1,104.00
8	2104.503	REMOVE SEWER PIPE (SANITARY)	LIN FT	\$15.00								
9	2104.503	REMOVE CURB & GUTTER	LIN FT	\$4.00								
10	2104.504	REMOVE CONCRETE PAVEMENT	SG YD	\$10.00	75	\$750.00					75	\$750.00
11	2104.504	REMOVE BITUMINOUS PAVEMENT	SG YD	\$6.00	367	\$2,202.00	11	\$66.33			378	\$2,268.33
12	2105.604	DITCH EXCAVATION	SG YD	\$10.00	50	\$500.00					50	\$500.00
13	2112.603	SHOULDER PREPARATION	LIN FT	\$0.50								
14	2112.619	RECLAIMED AGGREGATE BASE PREPARATION	ROAD STA	\$300.00	10	\$3,000.00					10	\$3,000.00
15	2105.607	EXCAVATION SPECIAL	CU YD	\$18.00	280	\$4,800.00					280	\$4,800.00
16	2105.607	COMMON EXCAVATION	CU YD	\$15.00								
17	2123.510	COMMON LABORERS	HOUR	\$100.00	6	\$600.00	6	\$600.00	6	\$600.00	18	\$1,800.00
18	2123.610	SKID LOADER	HOUR	\$145.00	6	\$870.00	6	\$870.00	6	\$870.00	18	\$2,610.00
19	2123.610	STREET SWEEPER (WITH PICKUP BROOM AND WATER)	HOUR	\$200.00	6	\$1,200.00	6	\$1,200.00	6	\$1,200.00	18	\$3,600.00
20	2211.607	AGGREGATE BASE SPECIAL (CV)	CU YD	\$35.00	12	\$420.00					12	\$420.00
21	2215.504	FULL DEPTH RECLAMATION	SG YD	\$2.00	3024	\$6,048.00					3024	\$6,048.00
22	2232.504	MILL BITUMINOUS SURFACE (2.0")	SG YD	\$2.00								
23	2301.504	CONCRETE PAVEMENT 8"	SG YD	\$90.00								
24	2302.518	SPOT FULL DEPTH REPAIR	SG FT	\$2.50								
25	2302.604	BITUMINOUS DRIVEWAY REPLACEMENT	SG YD	\$45.00	367	\$16,500.00					367	\$16,500.00
26	2360.509	TYPE SP 9.5 WEARING COURSE MIX (3.C)	TON	\$95.00	274	\$26,016.80	1	\$94.64			275	\$26,111.43
27	2360.509	TYPE SP 12.5 NON-WEARING COURSE MIX (3.B)	TON	\$85.00	365	\$31,037.58	1	\$112.90			366	\$31,150.48
28	2503.503	12" RC PIPE SEWER DESIGN 3006 CLASS V	LIN FT	\$75.00								
29	2503.601	TRACER WIRE SYSTEM (SANITARY)	LUMP SUM	\$500.00								
30	2503.602	CONNECT TO EXISTING STORM SEWER	EACH	\$1,300.00								
31	2503.602	CONNECT TO EXISTING SANITARY SEWER	EACH	\$1,850.00								
32	2503.603	8" PIPE SEWER	LIN FT	\$85.00								
33	2504.502	HYDRANT	EACH	\$5,500.00								
34	2504.602	HYDRANT RESTORATION	EACH	\$2,500.00								
35	2504.602	6" GATE VALVE REPLACEMENT	EACH	\$1,500.00								
36	2504.602	WATERMAIN EXPLORATORY EXCAVATION	HOUR	\$700.00								
37	2504.602	ADJUST VALVE BOX	EACH	\$325.00					1	\$325.00	1	\$325.00
38	2504.602	VALVE BOX MID SECTION	EACH	\$250.00					1	\$250.00	1	\$250.00
39	2504.602	WATERMAIN TEE	EACH	\$6,500.00								
40	2506.502	CASTING ASSEMBLY (SANITARY 700-7)	EACH	\$1,200.00			2	\$2,400.00			2	\$2,400.00
41	2506.502	CASTING ASSEMBLY (STORM 700-7)	EACH	\$1,200.00								
42	2506.502	CASTING ASSEMBLY (STORM NEENAH R-3250-DVSP)	EACH	\$1,550.00								
43	2506.502	CASTING ASSEMBLY (STORM NEENAH R-3250-EVSP)	EACH	\$1,300.00								
44	2506.503	CONSTRUCT DRAINAGE STRUCTURE 48-4020	LIN FT	\$1,000.00								
45	2506.503	CONSTRUCT DRAINAGE STRUCTURE DESIGN H	LIN FT	\$500.00								
46	2506.602	RECONSTRUCT DRAINAGE STRUCTURE	EACH	\$2,000.00								
47	2506.602	GROUT CATCH BASIN OR MANHOLE	CU YD	\$600.00			0.25	\$150.00			0.25	\$150.00
48	2506.603	CONSTRUCT OUTSIDE DROP	LIN FT	\$1,400.00								
49	2506.603	SANITARY MANHOLE EXCESS DEPTH	LIN FT	\$500.00								
50	2521.518	6" CONCRETE WALK	SG FT	\$17.50								
51	2521.518	3" BITUMINOUS WALK	SG FT	\$3.50								
52	2531.503	CONCRETE CURB & GUTTER DESIGN B624	LIN FT	\$24.00								
53	2531.504	6" CONCRETE DRIVEWAY PAVEMENT	SG YD	\$75.00	75	\$5,625.00					75	\$5,625.00
54	2531.604	6" CONCRETE VALLEY GUTTER	SG YD	\$97.50								
55	2531.618	TRUNCATED DOMES	SG FT	\$85.00								
56	2540.602	MAIL BOX SUPPORT	EACH	\$125.00	13	\$1,625.00					13	\$1,625.00
57	2563.601	TRAFFIC CONTROL	LUMP SUM	\$3,000.00	0.93	\$2,784.60	0.05	\$141.30	0.02	\$74.10	1	\$3,000.00
58	2564.518	SIGN PANELS TYPE C	SG FT	\$60.00	13	\$780.00					13	\$780.00
59	2573.502	STORM DRAIN INLET PROTECTION	EACH	\$185.00								
60	2573.503	SEDIMENT CONTROL LOG TYPE WOOD FIBER	LIN FT	\$5.00	100	\$500.00					100	\$500.00
61	2573.503	SILT FENCE, TYPE MS	LIN FT	\$4.00								
62	2573.501	STABILIZED CONSTRUCTION EXIT	EACH	\$1,200.00	1	\$1,200.00					1	\$1,200.00
63	2574.507	SCREENED TOPSOIL BORROW	CU YD	\$45.00	74	\$3,330.00					74	\$3,330.00
64	2574.508	FERTILIZER TYPE 3 (10-10-20) (SEEDING)	POUND	\$1.75								
65	2574.508	FERTILIZER TYPE 3 (22-5-10) (SOD)	POUND	\$1.75	412	\$721.00					412	\$721.00
66	2575.504	SOD TYPE LAWN	SG YD	\$17.50	665	\$11,637.50					665	\$11,637.50
67	2575.508	SEED MIXTURE 22-111 (TEMPORARY SEEDING)	POUND	\$5.00								
68	2575.508	SEED MIXTURE 25-151	POUND	\$7.00								
69	2575.508	HYDRAULIC REINFORCED FIBER MATRIX	POUND	\$3.50								
70	2575.523	WATER	M GAL	\$45.00	10	\$450.00					10	\$450.00
71	2575.605	SEEDING	ACRE	\$600.00	0.05	\$30.00					0.05	\$30.00
72	2582.503	4" SOLID LINE PAINT	LIN FT	\$0.85								
73	2582.503	4" BROKEN LINE PAINT	LIN FT	\$0.85	230	\$195.50					230	\$195.50
74	2582.503	8" SOLID LINE PAINT	LIN FT	\$0.85								
75	2582.503	4" DOUBLE SOLID LINE PAINT	LIN FT	\$0.85	700	\$595.00					700	\$595.00

ESTIMATED CONSTRUCTION COST:	\$3,940,105.78	92.83%	\$134,224.64	4.70%	\$6,799.17	2.47%	\$3,566.10	100%	\$144,589.91
CONTINGENCIES (15%):	\$591,015.87		\$20,133.70		\$1,019.88		\$534.92		\$21,688.49
SUBTOTAL:	\$4,531,121.65		\$154,358.34		\$7,819.05		\$4,101.02	3.67%	\$166,278.40
ENGINEERING, LEGAL, FINANCE, ADMIN AND OTHER COSTS (25%):	\$1,132,780.41		\$38,589.58		\$1,954.76		\$1,025.25		\$41,569.60
ESTIMATED TOTAL PROJECT COST:	\$5,663,902.06		\$192,947.92		\$9,773.81		\$5,126.27		\$207,848.00

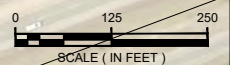
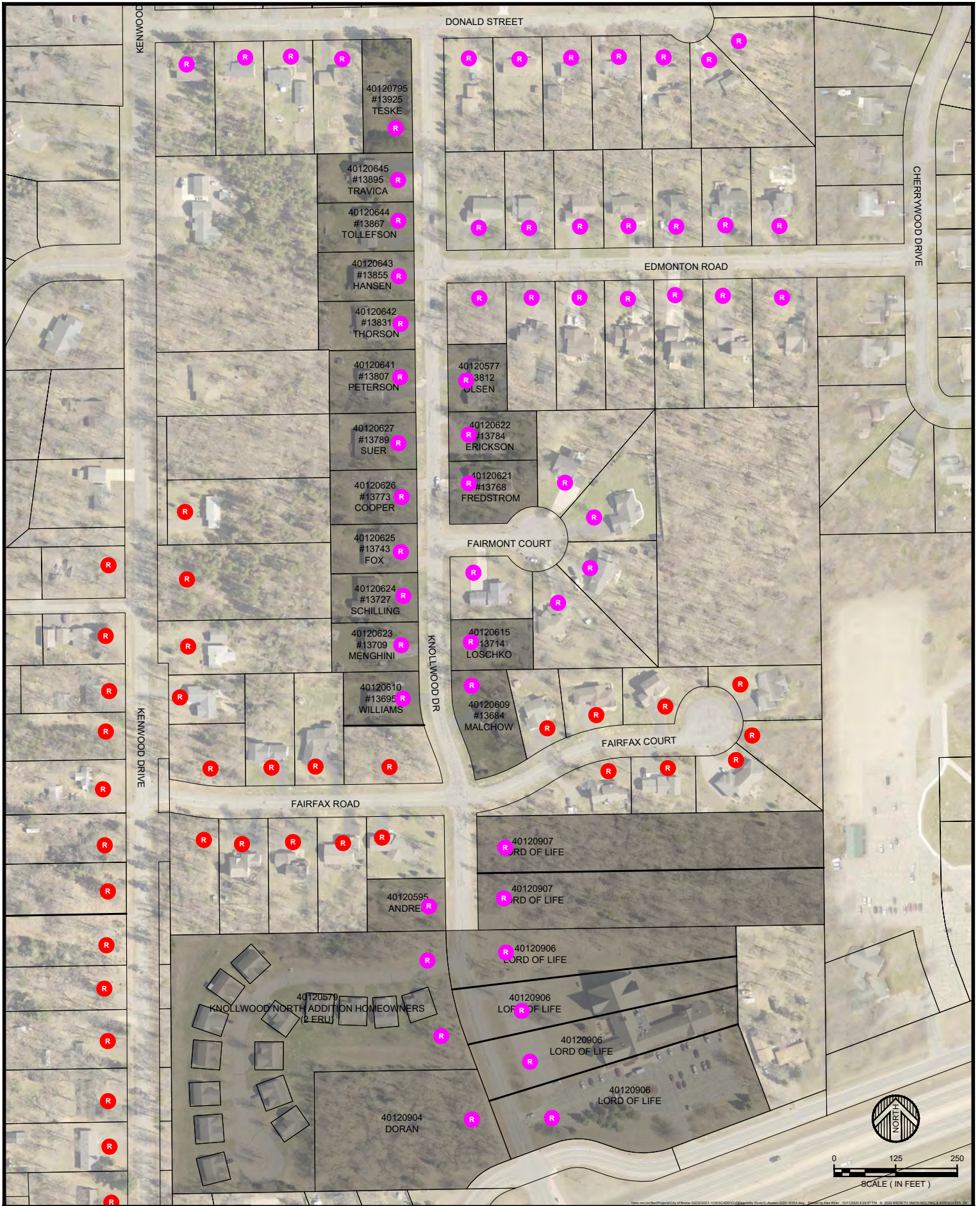


DATE	REV#	REVISIONS DESCRIPTION	BY

2024 MILL & OVERLAY AND FULL DEPTH RECLAMATION IMPROVEMENTS PROJECT
ENGINEER'S ESTIMATE AND ASSESSMENT CALCULATIONS
BAXTER, MN
 Monday, December 11, 2023

ITEM NO.	SPEC NO.	ITEM DESCRIPTION	UNIT	UNIT PRICE	KNOLLWOOD DRIVE						TOTAL PROJECT	
					ASSESSABLE ROADWAY		SANITARY SEWER		WATER		ESTIMATED QUANTITY	TOTAL COST
					ESTIMATED QUANTITY	TOTAL COST	ESTIMATED QUANTITY	TOTAL COST	ESTIMATED QUANTITY	TOTAL COST		
1	2021.501	MOBILIZATION	LUMP SUM	\$10,000.00	0.90	\$9,000.00	0.06	\$600.00	0.04	\$400.00	1	\$10,000.00
2	2104.502	REMOVE CASTING (SANITARY)	EACH	\$235.00			11	\$2,585.00			11	\$2,585.00
3	2104.502	REMOVE CASTING (STORM)	EACH	\$235.00								
4	2104.502	REMOVE SIGN	EACH	\$40.00	3	\$120.00					3	\$120.00
5	2104.502	REMOVE MAIL BOX SUPPORT	EACH	\$45.00	16	\$720.00					16	\$720.00
6	2104.503	SAWING CONCRETE PAVEMENT (FULL DEPTH)	LIN FT	\$7.50								
7	2104.503	SAWING BITUMINOUS PAVEMENT (FULL DEPTH)	LIN FT	\$4.00	458	\$1,832.00	308	\$1,232.00			766	\$3,064.00
8	2104.503	REMOVE SEWER PIPE (SANITARY)	LIN FT	\$15.00								
9	2104.503	REMOVE CURB & GUTTER	LIN FT	\$4.00								
10	2104.504	REMOVE CONCRETE PAVEMENT	SQ YD	\$10.00								
11	2104.504	REMOVE BITUMINOUS PAVEMENT	SQ YD	\$6.00	1018	\$6,108.00	60	\$350.33			1078	\$6,458.33
12	2105.604	DITCH EXCAVATION	SQ YD	\$10.00	50	\$500.00					50	\$500.00
13	2112.603	SHOULDER PREPARATION	LIN FT	\$0.50								
14	2112.619	RECLAIMED AGGREGATE BASE PREPARATION	ROAD STA	\$300.00	24	\$7,200.00					24	\$7,200.00
15	2105.607	EXCAVATION SPECIAL	CU YD	\$18.00	972	\$15,549.33					972	\$15,549.33
16	2105.607	COMMON EXCAVATION	CU YD	\$15.00								
17	2123.510	COMMON LABORERS	HOUR	\$100.00	2	\$200.00	2	\$200.00	2	\$200.00	6	\$600.00
18	2123.610	SKID LOADER	HOUR	\$145.00	2	\$290.00	2	\$290.00	2	\$290.00	6	\$870.00
19	2123.610	STREET SWEEPER (WITH PICKUP BROOM AND WATER)	HOUR	\$200.00	2	\$400.00	2	\$400.00	2	\$400.00	6	\$1,200.00
20	2211.607	AGGREGATE BASE SPECIAL (CV)	CU YD	\$35.00	12	\$420.00					12	\$420.00
21	2215.504	FULL DEPTH RECLAMATION	SQ YD	\$2.00	7140	\$14,280.00					7140	\$14,280.00
22	2232.504	MILL BITUMINOUS SURFACE (2.0")	SQ YD	\$2.00								
23	2301.504	CONCRETE PAVEMENT 8"	SQ YD	\$90.00								
24	2302.518	SPOT FULL DEPTH REPAIR	SQ FT	\$2.50								
25	2302.604	BITUMINOUS DRIVEWAY REPLACEMENT	SQ YD	\$45.00	775	\$34,875.00					775	\$34,875.00
26	2360.509	TYPE SP 9.5 WEARING COURSE MIX (3.C)	TON	\$95.00	647	\$61,428.54	5	\$516.21			652	\$61,944.75
27	2360.509	TYPE SP 12.5 NON-WEARING COURSE MIX (3.B)	TON	\$85.00	862	\$73,285.18	7	\$615.83			869	\$73,901.01
28	2503.503	12" RC PIPE SEWER DESIGN 3006 CLASS V	LIN FT	\$75.00								
29	2503.601	TRACER WIRE SYSTEM (SANITARY)	LUMP SUM	\$500.00								
30	2503.602	CONNECT TO EXISTING STORM SEWER	EACH	\$1,300.00								
31	2503.602	CONNECT TO EXISTING SANITARY SEWER	EACH	\$1,850.00								
32	2503.603	8" PIPE SEWER	LIN FT	\$85.00								
33	2504.502	HYDRANT	EACH	\$5,500.00								
34	2504.602	HYDRANT RESTORATION	EACH	\$2,500.00								
35	2504.602	6" GATE VALVE REPLACEMENT	EACH	\$1,500.00								
36	2504.602	WATERMAIN EXPLORATORY EXCAVATION	HOUR	\$700.00				12	\$8,400.00		12	\$8,400.00
37	2504.602	ADJUST VALVE BOX	EACH	\$325.00				7	\$2,275.00		7	\$2,275.00
38	2504.602	VALVE BOX MID SECTION	EACH	\$250.00				4	\$1,000.00		4	\$1,000.00
39	2504.602	WATERMAIN TEE	EACH	\$6,500.00	3	\$19,500.00					3	\$19,500.00
40	2506.502	CASTING ASSEMBLY (SANITARY 700-7)	EACH	\$1,200.00			11	\$13,200.00			11	\$13,200.00
41	2506.502	CASTING ASSEMBLY (STORM 700-7)	EACH	\$1,200.00								
42	2506.502	CASTING ASSEMBLY (STORM NEENAH R-3250-DVSP)	EACH	\$1,550.00								
43	2506.502	CASTING ASSEMBLY (STORM NEENAH R-3250-EVSP)	EACH	\$1,300.00								
44	2506.503	CONSTRUCT DRAINAGE STRUCTURE 48-4020	LIN FT	\$1,000.00								
45	2506.503	CONSTRUCT DRAINAGE STRUCTURE DESIGN H	LIN FT	\$500.00								
46	2506.602	RECONSTRUCT DRAINAGE STRUCTURE	EACH	\$2,000.00								
47	2506.602	GROUT CATCH BASIN OR MANHOLE	CU YD	\$600.00			0.25	\$150.00			0	\$150.00
48	2506.603	CONSTRUCT OUTSIDE DROP	LIN FT	\$1,400.00								
49	2506.603	SANITARY MANHOLE EXCESS DEPTH	LIN FT	\$500.00								
50	2521.518	6" CONCRETE WALK	SQ FT	\$17.50								
51	2521.518	3" BITUMINOUS WALK	SQ FT	\$3.50								
52	2531.503	CONCRETE CURB & GUTTER DESIGN B624	LIN FT	\$24.00								
53	2531.504	6" CONCRETE DRIVEWAY PAVEMENT	SQ YD	\$75.00	80	\$6,000.00					80	\$6,000.00
54	2531.604	6" CONCRETE VALLEY GUTTER	SQ YD	\$97.50								
55	2531.618	TRUNCATED DOMES	SQ FT	\$85.00								
56	2540.602	MAIL BOX SUPPORT	EACH	\$125.00	16	\$2,000.00					16	\$2,000.00
57	2563.601	TRAFFIC CONTROL	LUMP SUM	\$3,000.00	0.90	\$2,700.00	0.06	\$180.00	0.04	\$120.00	1	\$3,000.00
58	2564.518	SIGN PANELS TYPE C	SQ FT	\$60.00	18	\$1,050.00					18	\$1,050.00
59	2573.502	STORM DRAIN INLET PROTECTION	EACH	\$185.00								
60	2573.503	SEDIMENT CONTROL LOG TYPE WOOD FIBER	LIN FT	\$5.00	100	\$500.00					100	\$500.00
61	2573.503	SILT FENCE, TYPE MS	LIN FT	\$4.00								
62	2573.501	STABILIZED CONSTRUCTION EXIT	EACH	\$1,200.00	1	\$1,200.00					1	\$1,200.00
63	2574.507	SCREENED TOPSOIL BORROW	CU YD	\$45.00	49	\$2,205.00					49	\$2,205.00
64	2574.508	FERTILIZER TYPE 3 (10-10-20) (SEEDING)	POUND	\$1.75								
65	2574.508	FERTILIZER TYPE 3 (22-5-10) (SOD)	POUND	\$1.75	973	\$1,702.75					973	\$1,702.75
66	2575.504	SOD TYPE LAWN	SQ YD	\$17.50	1589	\$27,463.33					1589	\$27,463.33
67	2575.508	SEED MIXTURE 22-111 (TEMPORARY SEEDING)	POUND	\$5.50								
68	2575.508	SEED MIXTURE 25-151	POUND	\$7.00								
69	2575.508	HYDRAULIC REINFORCED FIBER MATRIX	POUND	\$3.50								
70	2575.523	WATER	M GAL	\$45.00	10	\$450.00					10	\$450.00
71	2575.605	SEEDING	ACRE	\$600.00								
72	2582.503	4" SOLID LINE PAINT	LIN FT	\$0.85								
73	2582.503	4" BROKEN LINE PAINT	LIN FT	\$0.85	1654	\$1,405.90					1654	\$1,405.90
74	2582.503	8" SOLID LINE PAINT	LIN FT	\$0.85								
75	2582.503	4" DOUBLE SOLID LINE PAINT	LIN FT	\$0.85	700	\$595.00					700	\$595.00

ESTIMATED CONSTRUCTION COST:	\$3,940,105.78	90%	\$292,978.04	6%	\$20,328.36	4%	\$13,085.00	100%	\$326,391.40
CONTINGENCIES (15%):	\$591,015.87		\$43,946.71		\$3,049.25		\$1,962.75		\$48,958.71
SUBTOTAL:	\$4,531,121.65		\$336,924.74		\$23,377.62		\$15,047.75	8.28%	\$375,350.11
ENGINEERING, LEGAL, FINANCE, ADMIN AND OTHER COSTS (25%):	\$1,132,780.41		\$84,231.19		\$5,844.40		\$3,761.94		\$93,837.53
ESTIMATED TOTAL PROJECT COST:	\$5,663,902.06		\$421,155.93		\$29,222.02		\$18,809.69		\$469,187.64



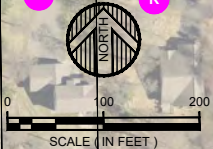
DATE	REV#	REVISIONS DESCRIPTION	BY

DATE: JUNE 2023
SCALE: AS SHOWN
DRAWN BY: TJS
CHECKED BY: ADB
JOB NUMBER: 2023-10353

2024 MILL & OVERLAY AND FULL DEPTH RECLAMATION IMPROVEMENTS PROJECT
ENGINEER'S ESTIMATE AND ASSESSMENT CALCULATIONS
BAXTER, MN
 Monday, December 11, 2023

					DONALD STREET							
ITEM NO.	SPEC NO.	ITEM DESCRIPTION	UNIT	UNIT PRICE	ASSESSABLE ROADWAY		SANITARY SEWER		WATER		TOTAL PROJECT	
					ESTIMATED QUANTITY	TOTAL COST	ESTIMATED QUANTITY	TOTAL COST	ESTIMATED QUANTITY	TOTAL COST	ESTIMATED QUANTITY	TOTAL COST
1	2021.501	MOBILIZATION	LUMP SUM	\$10,000.00	0.91	\$9,100.00	0.04	\$400.00	0.05	\$500.00	1	\$10,000.00
2	2104.502	REMOVE CASTING (SANITARY)	EACH	\$235.00			3	\$705.00			3	\$705.00
3	2104.502	REMOVE CASTING (STORM)	EACH	\$235.00								
4	2104.502	REMOVE SIGN	EACH	\$40.00	6	\$240.00					6	\$240.00
5	2104.502	REMOVE MAIL BOX SUPPORT	EACH	\$45.00	20	\$900.00					20	\$900.00
6	2104.503	SAWING CONCRETE PAVEMENT (FULL DEPTH)	LIN FT	\$7.50	175	\$1,312.50					175	\$1,312.50
7	2104.503	SAWING BITUMINOUS PAVEMENT (FULL DEPTH)	LIN FT	\$4.00	328	\$1,304.00	84	\$336.00			410	\$1,640.00
8	2104.503	REMOVE SEWER PIPE (SANITARY)	LIN FT	\$15.00								
9	2104.503	REMOVE CURB & GUTTER	LIN FT	\$4.00								
10	2104.504	REMOVE CONCRETE PAVEMENT	SQ YD	\$10.00	336	\$3,360.00					336	\$3,360.00
11	2104.504	REMOVE BITUMINOUS PAVEMENT	SQ YD	\$6.00	576	\$3,456.00	16	\$96.00			592	\$3,552.00
12	2105.604	DITCH EXCAVATION	SQ YD	\$10.00	50	\$500.00					50	\$500.00
13	2112.603	SHOULDER PREPARATION	LIN FT	\$9.50								
14	2112.619	RECLAIMED AGGREGATE BASE PREPARATION	ROAD STA	\$300.00	12	\$3,600.00					12	\$3,600.00
15	2105.607	EXCAVATION SPECIAL	CU YD	\$16.00								
16	2105.607	COMMON EXCAVATION	CU YD	\$16.00								
17	2123.510	COMMON LABORERS	HOUR	\$100.00	6	\$600.00	6	\$600.00	6	\$600.00	18	\$1,800.00
18	2123.610	SKID LOADER	HOUR	\$145.00	6	\$870.00	6	\$870.00	6	\$870.00	18	\$2,610.00
19	2123.610	STREET SWEEPER (WITH PICKUP BROOM AND WATER)	HOUR	\$200.00	6	\$1,200.00	6	\$1,200.00	6	\$1,200.00	18	\$3,600.00
20	2211.607	AGGREGATE BASE SPECICAL (CV)	CU YD	\$35.00	300	\$10,500.00					300	\$10,500.00
21	2215.504	FULL DEPTH RECLAMATION	SQ YD	\$2.00	3522	\$7,043.40					3522	\$7,043.40
22	2232.504	MILL BITUMINOUS SURFACE (2.0")	SQ YD	\$2.00								
23	2301.504	CONCRETE PAVEMENT 8"	SQ YD	\$90.00								
24	2302.518	SPOT FULL DEPTH REPAIR	SQ FT	\$2.50								
25	2302.604	BITUMINOUS DRIVEWAY REPLACEMENT	SQ YD	\$45.00	630	\$28,350.00					630	\$28,350.00
26	2360.509	TYPE SP 5.5 WEARING COURSE MIX (3.0)	TON	\$95.00	319	\$30,295.73	1	\$137.68			320	\$30,433.41
27	2360.509	TYPE SP 12.5 NONWEARING COURSE MIX (3.8)	TON	\$85.00	425	\$36,145.85	2	\$164.22			427	\$36,310.07
28	2503.503	12" RC PIPE SEWER DESIGN 300# CLASS V	LIN FT	\$75.00								
29	2503.601	TRACER WIRE SYSTEM (SANITARY)	LUMP SUM	\$500.00								
30	2503.602	CONNECT TO EXISTING STORM SEWER	EACH	\$1,300.00								
31	2503.602	CONNECT TO EXISTING SANITARY SEWER	EACH	\$1,850.00								
32	2503.603	8" PIPE SEWER	LIN FT	\$85.00								
33	2504.502	HYDRANT	EACH	\$5,500.00								
34	2504.602	HYDRANT RESTORATION	EACH	\$2,500.00								
35	2504.602	6" GATE VALVE REPLACEMENT	EACH	\$1,500.00								
36	2504.602	WATERMAIN EXPLORATORY EXCAVATION	HOUR	\$700.00				8	\$5,600.00		8	\$5,600.00
37	2504.602	ADJUST VALVE BOX	EACH	\$325.00				3	\$975.00		3	\$975.00
38	2504.602	VALVE BOX MID SECTION	EACH	\$250.00				1	\$250.00		1	\$250.00
39	2504.602	WATERMAIN TEE	EACH	\$6,500.00				2	\$13,000.00		2	\$13,000.00
40	2506.502	CASTING ASSEMBLY (SANITARY 700-7)	EACH	\$1,200.00			3	\$3,600.00			3	\$3,600.00
41	2506.502	CASTING ASSEMBLY (STORM 700-7)	EACH	\$1,200.00								
42	2506.502	CASTING ASSEMBLY (STORM NEENAH R-3250-DVSP)	EACH	\$1,550.00								
43	2506.502	CASTING ASSEMBLY (STORM NEENAH R-3250-EVSP)	EACH	\$1,300.00								
44	2506.503	CONSTRUCT DRAINAGE STRUCTURE 48-4020	LIN FT	\$1,000.00								
45	2506.503	CONSTRUCT DRAINAGE STRUCTURE DESIGN H	LIN FT	\$500.00								
46	2506.602	RECONSTRUCT DRAINAGE STRUCTURE	EACH	\$2,000.00								
47	2506.602	GROUT CATCH BASIN OR MANHOLE	CU YD	\$600.00			0.25	\$150.00			0	\$150.00
48	2506.603	CONSTRUCT OUTSIDE DROP	LIN FT	\$1,400.00								
49	2506.603	SANITARY MANHOLE EXCESS DEPTH	LIN FT	\$500.00								
50	2521.518	6" CONCRETE WALK	SQ FT	\$17.50								
51	2521.518	3" BITUMINOUS WALK	SQ FT	\$3.50								
52	2531.503	CONCRETE CURB & GUTTER DESIGN B624	LIN FT	\$24.00								
53	2531.504	6" CONCRETE DRIVEWAY PAVEMENT	SQ YD	\$75.00	315	\$23,625.00					315	\$23,625.00
54	2531.604	8" CONCRETE VALLEY GUTTER	SQ YD	\$97.50								
55	2531.618	TRUNCATED DOMES	SQ FT	\$65.00								
56	2540.602	MAIL BOX SUPPORT	EACH	\$125.00	20	\$2,500.00					20	\$2,500.00
57	2563.601	TRAFFIC CONTROL	LUMP SUM	\$3,000.00	0.91	\$2,730.00	0.04	\$120.00	0.05	\$150.00	1	\$3,000.00
58	2564.518	SIGN PANELS TYPE C	SQ FT	\$60.00	28	\$1,680.00					28	\$1,680.00
59	2573.502	STORM DRAIN INLET PROTECTION	EACH	\$165.00								
60	2573.503	SEDIMENT CONTROL LOG TYPE WOOD FIBER	LIN FT	\$5.00	100	\$500.00					100	\$500.00
61	2573.503	SILT FENCE, TYPE MS	LIN FT	\$4.00								
62	2573.501	STABILIZED CONSTRUCTION EXIT	EACH	\$1,200.00	1	\$1,200.00					1	\$1,200.00
63	2574.507	SCREENED TOPSOIL BORROW	CU YD	\$45.00	83	\$3,735.00					83	\$3,735.00
64	2574.508	FERTILIZER TYPE 3 (10-10-20) (SEEDING)	POUND	\$1.75								
65	2574.508	FERTILIZER TYPE 3 (22-5-10) (SOD)	POUND	\$1.75	480	\$840.00					480	\$840.00
66	2575.504	SOD TYPE LAWN	SQ YD	\$17.50	774	\$13,545.00					774	\$13,545.00
67	2575.508	SEED MIXTURE 22-111 (TEMPORARY SEEDING)	POUND	\$5.50								
68	2575.508	SEED MIXTURE 25-151	POUND	\$7.00								
69	2575.508	HYDRAULIC REINFORCED FIBER MATRIX	POUND	\$3.50								
70	2575.523	WATER	MGAL	\$45.00	10	\$450.00					10	\$450.00
71	2575.605	SEEDING	ACRE	\$600.00								
72	2582.503	4" SOLID LINE PAINT	LIN FT	\$0.85								
73	2582.503	4" BROKEN LINE PAINT	LIN FT	\$0.85	1112	\$945.20					1112	\$945.20
74	2582.503	8" SOLID LINE PAINT	LIN FT	\$0.85								
75	2582.503	4" DOUBLE SOLID LINE PAINT	LIN FT	\$0.85								

ESTIMATED CONSTRUCTION COST:	\$3,940,105.78	86%	\$190,545.67	4%	\$8,380.88	10%	\$23,145.00	100%	\$222,071.55
CONTINGENCIES (15%):	\$591,015.87		\$28,581.85		\$1,257.13		\$3,471.75		\$33,310.73
SUBTOTAL:	\$4,531,121.65		\$219,127.53		\$9,638.01		\$26,616.75	5.64%	\$255,382.28
ENGINEERING, LEGAL, FINANCE, ADMIN AND OTHER COSTS (25%):	\$1,132,780.41		\$4,781.88		\$2,409.50		\$6,654.19		\$63,845.57
ESTIMATED TOTAL PROJECT COST:	\$5,663,902.06		\$273,909.41		\$12,047.51		\$33,270.94		\$319,227.85



DATE	REV#	REVISIONS DESCRIPTION	BY

DATE: JUNE 2023
SCALE: AS SHOWN
DRAWN BY: TJS
CHECKED BY: ADB
JOB NUMBER: 2023-10353

2024 MILL & OVERLAY AND FULL DEPTH RECLAMATION IMPROVEMENTS PROJECT
ENGINEER'S ESTIMATE AND ASSESSMENT CALCULATIONS
BAXTER, MN
 Monday, December 11, 2023

					GLORY ROAD							
ITEM NO.	SPEC NO.	ITEM DESCRIPTION	UNIT	UNIT PRICE	ASSESSABLE ROADWAY		SANITARY SEWER		WATER		TOTAL PROJECT	
					ESTIMATED QUANTITY	TOTAL COST	ESTIMATED QUANTITY	TOTAL COST	ESTIMATED QUANTITY	TOTAL COST	ESTIMATED QUANTITY	TOTAL COST
1	2021.501	MOBILIZATION	LUMP SUM	\$10,000.00	0.87	\$8,700.00	0.08	\$600.00	0.05	\$500.00	1	\$10,000.00
2	2104.502	REMOVE CASTING (SANITARY)	EACH	\$235.00							2	\$470.00
3	2104.502	REMOVE CASTING (STORM)	EACH	\$235.00								
4	2104.502	REMOVE SIGN	EACH	\$40.00								
5	2104.502	REMOVE MAIL BOX SUPPORT	EACH	\$45.00	3	\$135.00					3	\$135.00
6	2104.503	SAWING CONCRETE PAVEMENT (FULL DEPTH)	LN FT	\$7.50								
7	2104.503	SAWING BITUMINOUS PAVEMENT (FULL DEPTH)	LN FT	\$4.00	70	\$280.00	56	\$224.00			126	\$504.00
8	2104.503	REMOVE SEWER PIPE (SANITARY)	LN FT	\$15.00								
9	2104.503	REMOVE CURB & GUTTER	LN FT	\$4.00								
10	2104.504	REMOVE CONCRETE PAVEMENT	SQ YD	\$10.00								
11	2104.504	REMOVE BITUMINOUS PAVEMENT	SQ YD	\$6.00	163	\$978.00	11	\$66.33			174	\$1,044.33
12	2105.604	DITCH EXCAVATION	SQ YD	\$10.00	50	\$500.00					50	\$500.00
13	2112.603	SHOULDER PREPARATION	LN FT	\$9.50								
14	2112.619	RECLAIMED AGGREGATE BASE PREPARATION	ROAD STA	\$300.00	6	\$1,800.00					6	\$1,800.00
15	2105.607	EXCAVATION SPECIAL	CU YD	\$16.00	213	\$3,408.00					213	\$3,408.00
16	2105.607	COMMON EXCAVATION	CU YD	\$16.00								
17	2123.510	COMMON LABORERS	HOURL	\$100.00	6	\$600.00	6	\$600.00	6	\$600.00	18	\$1,800.00
18	2123.610	SKID LOADER	HOURL	\$145.00	6	\$870.00	6	\$870.00	6	\$870.00	18	\$2,610.00
19	2123.610	STREET SWEEPER (WITH PICKUP BROOM AND WATER)	HOURL	\$200.00	6	\$1,200.00	6	\$1,200.00	6	\$1,200.00	18	\$3,600.00
20	2211.607	AGGREGATE BASE SPECIAL (CV)	CU YD	\$35.00	12	\$420.00					12	\$420.00
21	2215.504	FULL DEPTH RECLAMATION	SQ YD	\$2.00	1562	\$3,124.33					1562	\$3,124.33
22	2232.504	MILL BITUMINOUS SURFACE (2.0")	SQ YD	\$2.00								
23	2301.504	CONCRETE PAVEMENT 8"	SQ YD	\$90.00								
24	2302.518	SPOT FULL DEPTH REPAIR	SQ FT	\$2.50								
25	2302.604	BITUMINOUS DRIVEWAY REPLACEMENT	SQ YD	\$45.00	163	\$7,350.00					163	\$7,350.00
26	2360.509	TYPE SP 5.5 WEARING COURSE MIX (3.0)	TON	\$95.00	141	\$13,395.00	1	\$94.04			142	\$13,533.21
27	2360.509	TYPE SP 12.5 NONWEARING COURSE MIX (3.8)	TON	\$85.00	189	\$16,065.00	1	\$112.90			190	\$16,144.88
28	2503.503	12" RC PIPE SEWER DESIGN 3008 CLASS V	LN FT	\$75.00								
29	2503.601	TRACER WIRE SYSTEM (SANITARY)	LUMP SUM	\$500.00								
30	2503.602	CONNECT TO EXISTING STORM SEWER	EACH	\$1,300.00								
31	2503.602	CONNECT TO EXISTING SANITARY SEWER	EACH	\$1,850.00								
32	2503.603	8" PIPE SEWER	LN FT	\$85.00								
33	2504.502	HYDRANT	EACH	\$5,500.00								
34	2504.602	HYDRANT RESTORATION	EACH	\$2,500.00								
35	2504.602	6" GATE VALVE REPLACEMENT	EACH	\$1,500.00								
36	2504.602	WATERMAIN EXPLORATORY EXCAVATION	HOURL	\$700.00								
37	2504.602	ADJUST VALVE BOX	EACH	\$325.00				2	\$650.00		2	\$650.00
38	2504.602	VALVE BOX MID SECTION	EACH	\$250.00				1	\$250.00		1	\$250.00
39	2504.602	WATERMAIN TEE	EACH	\$6,500.00								
40	2506.502	CASTING ASSEMBLY (SANITARY 700-7)	EACH	\$1,200.00			2	\$2,400.00			2	\$2,400.00
41	2506.502	CASTING ASSEMBLY (STORM 700-7)	EACH	\$1,200.00								
42	2506.502	CASTING ASSEMBLY (STORM NEENAH R-3250-DVSP)	EACH	\$1,550.00								
43	2506.502	CASTING ASSEMBLY (STORM NEENAH R-3250-EVSP)	EACH	\$1,300.00								
44	2506.503	CONSTRUCT DRAINAGE STRUCTURE 48-4020	LN FT	\$1,000.00								
45	2506.503	CONSTRUCT DRAINAGE STRUCTURE DESIGN H	LN FT	\$500.00								
46	2506.602	RECONSTRUCT DRAINAGE STRUCTURE	EACH	\$2,000.00								
47	2506.602	GROUT CATCH BASIN OR MANHOLE	CU YD	\$600.00		0.25	\$150.00				0	\$150.00
48	2506.603	CONSTRUCT OUTSIDE DROP	LN FT	\$1,400.00								
49	2506.603	SANITARY MANHOLE EXCESS DEPTH	LN FT	\$500.00								
50	2521.518	6" CONCRETE WALK	SQ FT	\$17.50								
51	2521.518	3" BITUMINOUS WALK	SQ FT	\$3.50								
52	2531.603	CONCRETE CURB & GUTTER DESIGN B624	LN FT	\$24.00								
53	2531.504	6" CONCRETE DRIVEWAY PAVEMENT	SQ YD	\$75.00								
54	2531.604	8" CONCRETE VALLEY GUTTER	SQ YD	\$97.50								
55	2531.618	TRUNCATED DOMES	SQ FT	\$65.00								
56	2540.602	MAIL BOX SUPPORT	EACH	\$125.00	3	\$375.00					3	\$375.00
57	2563.601	TRAFFIC CONTROL	LUMP SUM	\$3,000.00	0.87	\$2,610.00	0.08	\$240.00	0.05	\$150.00	1	\$3,000.00
58	2564.518	SIGN PANELS TYPE C	SQ FT	\$60.00								
59	2573.502	STORM DRAIN INLET PROTECTION	EACH	\$165.00								
60	2573.503	SEDIMENT CONTROL LOG TYPE WOOD FIBER	LN FT	\$5.00	100	\$500.00					100	\$500.00
61	2573.503	SILT FENCE, TYPE MS	LN FT	\$4.00								
62	2573.501	STABILIZED CONSTRUCTION EXIT	EACH	\$1,200.00	1	\$1,200.00					1	\$1,200.00
63	2574.507	SCREENED TOPSOIL BORROW	CU YD	\$45.00	39	\$1,755.00					39	\$1,755.00
64	2574.508	FERTILIZER TYPE 3 (10-10-20) (SEEDING)	POUND	\$1.75								
65	2574.508	FERTILIZER TYPE 3 (22-5-10) (SOD)	POUND	\$1.75	213	\$372.75					213	\$372.75
66	2575.504	SOD TYPE LAWN	SQ YD	\$17.50	343	\$6,008.33					343	\$6,008.33
67	2575.508	SEED MIXTURE 22-111 (TEMPORARY SEEDING)	POUND	\$5.50								
68	2575.508	SEED MIXTURE 25-151	POUND	\$7.00								
69	2575.508	HYDRAULIC REINFORCED FIBER MATRIX	POUND	\$3.50								
70	2575.523	WATER	MGAL	\$45.00	10	\$450.00					10	\$450.00
71	2575.605	SEEDING	ACRE	\$600.00								
72	2582.503	4" SOLID LINE PAINT	LN FT	\$0.85								
73	2582.503	4" BROKEN LINE PAINT	LN FT	\$0.85	515	\$437.75					515	\$437.75
74	2582.503	8" SOLID LINE PAINT	LN FT	\$0.85								
75	2582.503	4" DOUBLE SOLID LINE PAINT	LN FT	\$0.85								

ESTIMATED CONSTRUCTION COST:	\$3,940,105.78	86%	\$72,540.77	9%	\$7,226.87	5%	\$4,220.00	100%	\$83,987.64
CONTINGENCIES (15%):	\$591,015.87		\$10,881.11		\$1,084.03		\$633.00		\$12,598.15
SUBTOTAL:	\$4,531,121.65		\$83,421.88		\$8,310.90		\$4,853.00	2.13%	\$96,585.78
ENGINEERING, LEGAL, FINANCE, ADMIN AND OTHER COSTS (25%):	\$1,132,780.41		\$20,855.47		\$2,077.73		\$1,213.25		\$24,146.45
ESTIMATED TOTAL PROJECT COST:	\$5,663,902.06		\$104,277.35		\$10,388.63		\$6,066.25		\$120,732.23



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SCALE (IN FEET)

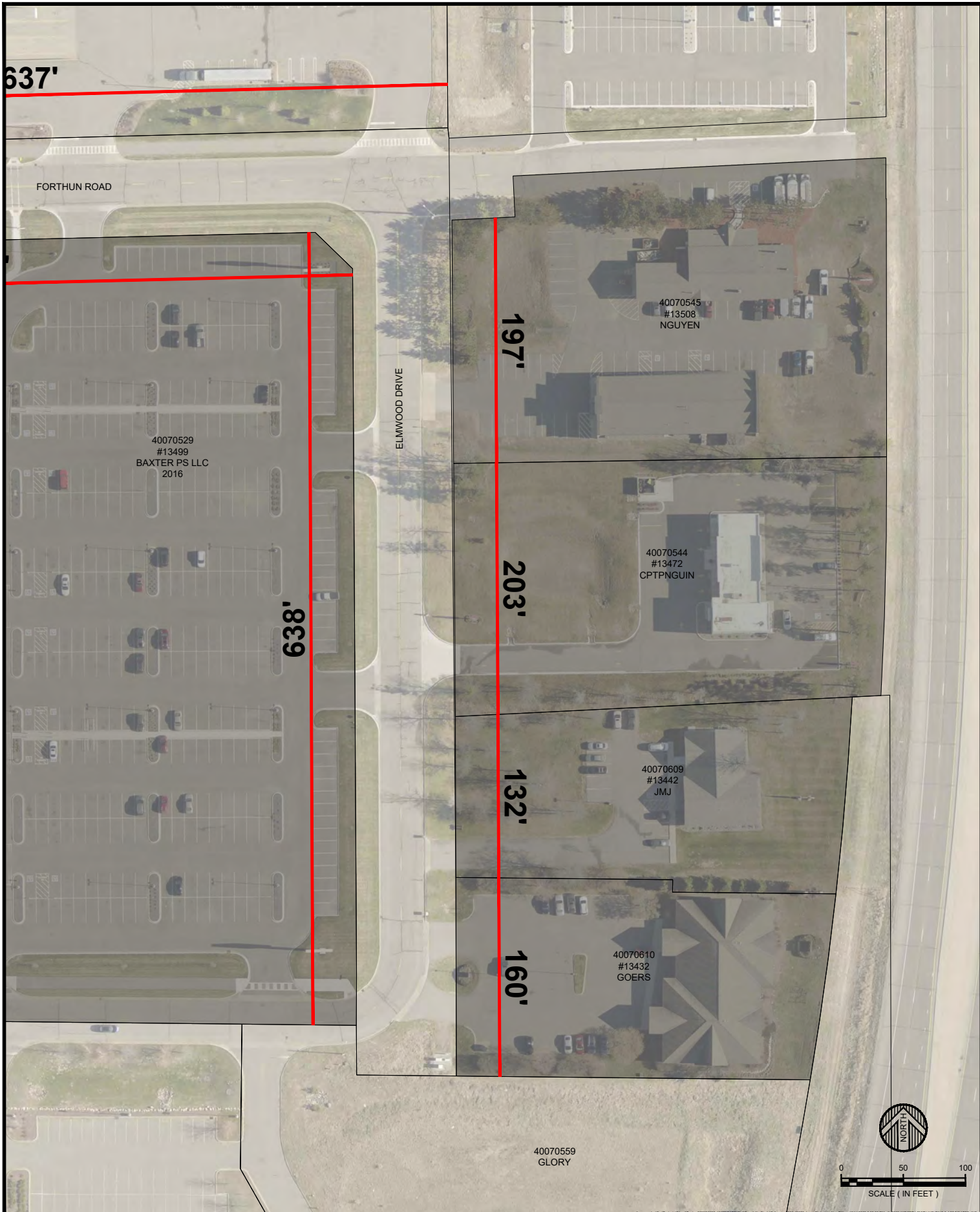
DATE	REV#	REVISIONS DESCRIPTION	BY

2024 MILL & OVERLAY AND FULL DEPTH RECLAMATION IMPROVEMENTS PROJECT
ENGINEER'S ESTIMATE AND ASSESSMENT CALCULATIONS
BAXTER, MN
 Monday, December 11, 2023

					COMMERCIAL FDR											
					ASSESSABLE ROADWAY				STORM SEWER		SANITARY SEWER		WATER		TOTAL PROJECT	
ITEM NO.	SPEC NO.	ITEM DESCRIPTION	UNIT	UNIT PRICE	ESTIMATED QUANTITY	TOTAL COST	ESTIMATED QUANTITY	TOTAL COST	ESTIMATED QUANTITY	TOTAL COST	ESTIMATED QUANTITY	TOTAL COST	ESTIMATED QUANTITY	TOTAL COST	ESTIMATED QUANTITY	TOTAL COST
1	2021.501	MOBILIZATION	LUMP SUM	\$10,000.00	0.89	\$8,900.00	0.00	\$0.00	0.03	\$300.00	0.02	\$200.00			1	\$10,000.00
2	2104.502	REMOVE CASTING (SANITARY)	EACH	\$235.00					2	\$470.00					2	\$470.00
3	2104.502	REMOVE CASTING (STORM)	EACH	\$235.00				4	\$940.00						4	\$940.00
4	2104.502	REMOVE SIGN	EACH	\$40.00	1	\$40.00									1	\$40.00
5	2104.502	REMOVE MAIL BOX SUPPORT	EACH	\$45.00	3	\$135.00									3	\$135.00
6	2104.503	SAWING CONCRETE PAVEMENT (FULL DEPTH)	LN FT	\$7.50	27	\$202.50									27	\$202.50
7	2104.503	SAWING BITUMINOUS PAVEMENT (FULL DEPTH)	LN FT	\$4.00	208	\$832.00					56	\$224.00			264	\$1,056.00
8	2104.503	REMOVE SEWER PIPE (SANITARY)	LN FT	\$16.00												
9	2104.503	REMOVE CURB & GUTTER	LN FT	\$4.00	966	\$3,864.00	80	\$320.00							1046	\$4,184.00
10	2104.504	REMOVE CONCRETE PAVEMENT	SO YD	\$10.00	363	\$3,634.17									363	\$3,634.17
11	2104.504	REMOVE BITUMINOUS PAVEMENT	SO YD	\$6.00	330	\$1,977.50			11	\$65.33					340	\$2,042.83
12	2105.604	DITCH EXCAVATION	SO YD	\$10.00												
13	2112.603	SHOULDER PREPARATION	LN FT	\$0.50												
14	2112.619	RECLAIMED AGGREGATE BASE PREPARATION	ROAD STA	\$300.00	7	\$2,100.00									7	\$2,100.00
15	2105.607	EXCAVATION SPECIAL	CU YD	\$16.00	357	\$5,712.13									357	\$5,712.13
16	2105.607	COMMON EXCAVATION	CU YD	\$15.00												
17	2123.510	COMMON LABORERS	HR	\$100.00	6	\$600.00	6	\$600.00	6	\$600.00	6	\$600.00			24	\$2,400.00
18	2123.610	SKID LOADER	HR	\$145.00	6	\$870.00	6	\$870.00	6	\$870.00	6	\$870.00			24	\$3,480.00
19	2123.610	STREET SWEEP (WITH PICKUP BROOM AND WATER)	HR	\$200.00	6	\$1,200.00	6	\$1,200.00	6	\$1,200.00	6	\$1,200.00			24	\$4,800.00
20	2211.607	AGGREGATE BASE SPECIAL (2V)	CU YD	\$35.00	12	\$420.00									12	\$420.00
21	2215.504	FULL DEPTH RECLAMATION	SO YD	\$2.00	2622	\$5,243.70									2622	\$5,243.70
22	2332.504	MILL BITUMINOUS SURFACE (2 1/2")	SO YD	\$2.00												
23	2301.504	CONCRETE PAVEMENT 8"	SO YD	\$90.00	247	\$22,260.00									247	\$22,260.00
24	2302.518	SPOT FULL DEPTH REPAIR	SO FT	\$2.00												
25	2302.504	BITUMINOUS DRIVEWAY REPLACEMENT	SO YD	\$42.00	388	\$17,445.75									388	\$17,445.75
26	2305.509	TYPE SP 9.5 WEARING COURSE MIX (3.C)	TON	\$95.00	475	\$45,118.43	2	\$189.28							477	\$45,308.70
27	2305.509	TYPE SP 12.5 NON-WEARING COURSE MIX (3.B)	TON	\$55.00	475	\$26,137.50	2	\$109.35							477	\$26,246.85
28	2503.503	12" RC PIPE SEWER DESIGN 3006 CLASS V	LN FT	\$75.00												
29	2503.601	TRACER WIRE SYSTEM (SANITARY)	LUMP SUM	\$500.00												
30	2503.602	CONNECT TO EXISTING STORM SEWER	EACH	\$1,300.00												
31	2503.602	CONNECT TO EXISTING SANITARY SEWER	EACH	\$1,800.00												
32	2503.603	8" PIPE SEWER	LN FT	\$85.00												
33	2504.502	HYDRANT	EACH	\$5,500.00												
34	2504.602	HYDRANT RESTORATION	EACH	\$2,500.00												
35	2504.602	8" GATE VALVE REPLACEMENT	EACH	\$1,500.00												
36	2504.602	WATERMAIN EXCAVATORY EXCAVATION	HR	\$700.00												
37	2504.602	ADJUST VALVE BOX	EACH	\$325.00							1	\$325.00			1	\$325.00
38	2504.602	VALVE BOX MID SECTION	EACH	\$250.00							1	\$250.00			1	\$250.00
39	2504.602	WATERMAIN TEE	EACH	\$6,500.00												
40	2506.502	CASTING ASSEMBLY (SANITARY 700-7)	EACH	\$1,200.00					2	\$2,400.00					2	\$2,400.00
41	2506.502	CASTING ASSEMBLY (STORM 700-7)	EACH	\$1,300.00												
42	2506.502	CASTING ASSEMBLY (STORM NEENAH R-3250-EVSP)	EACH	\$1,500.00			2	\$3,100.00							2	\$3,100.00
43	2506.502	CASTING ASSEMBLY (STORM NEENAH R-3250-EVSP)	EACH	\$1,300.00												
44	2506.503	CONSTRUCT DRAINAGE STRUCTURE 48-4020	LN FT	\$1,000.00												
45	2506.503	CONSTRUCT DRAINAGE STRUCTURE DESIGN H	LN FT	\$500.00												
46	2506.602	RECONSTRUCT DRAINAGE STRUCTURE	EACH	\$2,000.00			4	\$8,000.00							4	\$8,000.00
47	2506.602	CROUT CATCH BASIN OR MANHOLE	CU YD	\$600.00			0.125	\$75.00			0.125	\$75.00			0	\$150.00
48	2506.603	CONSTRUCT OUTSIDE DROP	LN FT	\$1,400.00												
49	2506.603	SANITARY MANHOLE EXCESS DEPTH	LN FT	\$500.00												
50	2521.518	6" CONCRETE WALK	SO FT	\$17.50												
51	2521.518	3" BITUMINOUS WALK	SO FT	\$3.50												
52	2521.503	CONCRETE CURB & GUTTER DESIGN B624	LN FT	\$24.00	966	\$23,184.00	80	\$1,920.00							1046	\$25,104.00
53	2521.504	8" CONCRETE DRIVEWAY PAVEMENT	SO YD	\$75.00												
54	2521.604	8" CONCRETE VALLEY GUTTER	SO YD	\$97.50	155	\$15,112.50									155	\$15,112.50
55	2521.618	TRUNCATED DOMES	SO FT	\$65.00												
56	2540.602	MAIL BOX SUPPORT	EACH	\$125.00	3	\$375.00									3	\$375.00
57	2563.601	TRAFFIC CONTROL	LUMP SUM	\$3,000.00	0.89	\$2,670.00	0.00	\$180.00	0.03	\$90.00	0.02	\$60.00			1	\$3,000.00
58	2564.518	SIGN PANELS TYPE C	SO FT	\$60.00	6	\$375.00									6	\$375.00
59	2573.502	STORM DRAIN INLET PROTECTION	EACH	\$165.00							2	\$330.00			2	\$330.00
60	2573.503	SEDIMENT CONTROL LOG TYPE WOOD FIBER	LN FT	\$5.00	100	\$500.00									100	\$500.00
61	2573.503	SILT FENCE TYPE MS	LN FT	\$4.00												
62	2573.601	STABILIZED CONSTRUCTION EXIT	EACH	\$1,200.00	1	\$1,200.00									1	\$1,200.00
63	2574.507	SCREENED TOPSOIL BERM	CU YD	\$40.00	86	\$3,440.00									86	\$3,440.00
64	2574.508	FERTILIZER TYPE 3 (15-10-20) (SEEDING)	POUND	\$1.75	10	\$17.50									10	\$17.50
65	2574.508	FERTILIZER TYPE 3 (22-5-10) (SOO)	POUND	\$1.75												
66	2574.504	SOD TYPE LAWN	SO YD	\$17.50												
67	2574.508	SEED MIXTURE 22-111 (TEMPORARY SEEDING)	POUND	\$5.50	19	\$104.50									19	\$104.50
68	2574.508	SEED MIXTURE 25-151	POUND	\$7.00	19	\$133.00									19	\$133.00
69	2574.508	HYDRALIC REINFORCED FIBER MATRIX	POUND	\$3.50	328	\$1,148.00									328	\$1,148.00
70	2575.523	WATER	MGAL	\$45.00	10	\$450.00									10	\$450.00
71	2575.605	SEEDING	ACRE	\$60.00	0.16	\$96.00									0.16	\$96.00
72	2582.503	4" SOLID LINE PAINT	LN FT	\$0.85												
73	2582.503	4" BROKEN LINE PAINT	LN FT	\$0.85	331	\$281.35									331	\$281.35
74	2582.503	8" SOLID LINE PAINT	LN FT	\$0.85												
75	2582.503	4" DOUBLE SOLID LINE PAINT	LN FT	\$0.85	350	\$297.50									350	\$297.50

ESTIMATED CONSTRUCTION COST:	\$3,940,105.78
CONTINGENCIES (15%):	\$591,015.87
SUBTOTAL:	\$4,531,121.65
ENGINEERING, LEGAL, FINANCE, ADMIN AND OTHER COSTS (25%):	\$1,132,780.41
ESTIMATED TOTAL PROJECT COST:	\$5,663,902.06

88%	\$210,647.23	7%	\$17,805.00	3%	\$6,652.96	2%	\$3,835.00	100%	\$238,940.19
	\$31,597.08		\$2,670.75		\$997.94		\$576.25		\$35,841.03
	\$242,244.31		\$20,475.75		\$7,650.90		\$1,410.25	6.06%	\$274,781.22
	\$60,561.08		\$5,118.94		\$1,912.73		\$1,102.56		\$68,695.30
	\$302,805.39		\$25,594.69		\$9,563.63		\$5,512.81		\$343,476.52



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.

ALEX D BITTER DATE: LIC. NO. 57744

DATE	REV#	REVISIONS DESCRIPTION	BY

DATE: JUNE 2023
SCALE: AS SHOWN
DRAWN BY: TJS
CHECKED BY: ADB

JOB NUMBER: 2023-10353

2024 MILL & OVERLAY AND FDR IMPROVEMENTS
CITY OF BAXTER
BAXTER, MINNESOTA

ELMWOOD DRIVE ASSESSMENT MAP

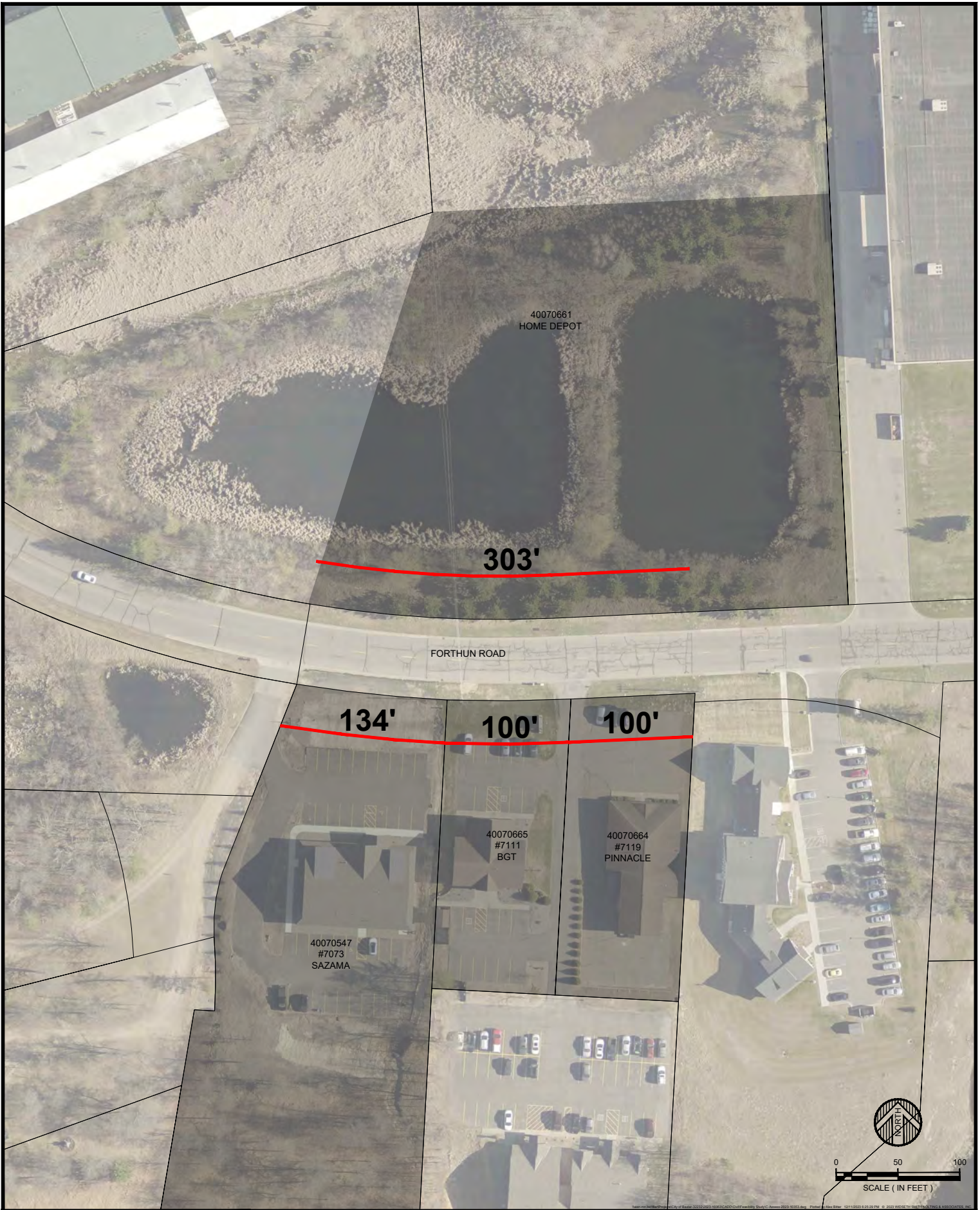


DATE	REV#	REVISIONS DESCRIPTION	BY

2024 MILL & OVERLAY AND FULL DEPTH RECLAMATION IMPROVEMENTS PROJECT
ENGINEER'S ESTIMATE AND ASSESSMENT CALCULATIONS
BAXTER, MN
 Monday, December 11, 2023

ITEM NO.	SPEC NO.	ITEM DESCRIPTION	UNIT	UNIT PRICE	FORTHUN ROAD (570' WEST OF ROUNDABOUT TO 386' WEST OF ROUNDABOUT)									
					ASSESSABLE ROADWAY		STORM SEWER		SANITARY SEWER		WATER		TOTAL PROJECT	
					ESTIMATED QUANTITY	TOTAL COST	ESTIMATED QUANTITY	TOTAL COST	ESTIMATED QUANTITY	TOTAL COST	ESTIMATED QUANTITY	TOTAL COST	ESTIMATED QUANTITY	TOTAL COST
1	2021.501	MOBILIZATION	LUMP SUM	\$10,000.00	0.83	\$8,300.00	0.10	\$1,000.00	0.05	\$500.00	0.02	\$200.00	1	\$10,000.00
2	2104.502	REMOVE CASTING (SANITARY)	EACH	\$225.00				2	\$470.00				2	\$470.00
3	2104.502	REMOVE CASTING (STORM)	EACH	\$225.00									2	\$470.00
4	2104.502	REMOVE SIGN	EACH	\$40.00	1	\$40.00							1	\$40.00
5	2104.502	REMOVE MAIL BOX SUPPORT	EACH	\$45.00	4	\$180.00							4	\$180.00
6	2104.503	SAWING CONCRETE PAVEMENT (FULL DEPTH)	LN FT	\$7.50									81	\$524.00
7	2104.503	SAWING BITUMINOUS PAVEMENT (FULL DEPTH)	LN FT	\$4.00	25	\$100.00			56	\$224.00				\$324.00
8	2104.503	REMOVE SEWER PIPE (SANITARY)	LN FT	\$16.00										
9	2104.503	REMOVE CURB & GUTTER	LN FT	\$4.00	285	\$1,140.00	40	\$160.00					325	\$1,300.00
10	2104.504	REMOVE CONCRETE PAVEMENT	SO YD	\$10.00										
11	2104.504	REMOVE BITUMINOUS PAVEMENT	SO YD	\$6.00	56	\$336.00			11	\$66.33			67	\$401.33
12	2105.604	DITCH EXCAVATION	SO YD	\$10.00										
13	2112.603	SHOULDER PREPARATION	LN FT	\$0.50										
14	2112.619	RECLAIMED AGGREGATE BASE PREPARATION	ROAD STA	\$300.00	3	\$900.00							3	\$900.00
15	2105.607	EXCAVATION SPECIAL	CU YD	\$16.00	102	\$1,631.26							102	\$1,631.26
16	2105.607	COMMON EXCAVATION	CU YD	\$15.00	245	\$3,675.33							245	\$3,675.33
17	2123.510	COMMON LABORERS	HR	\$100.00	6	\$600.00	6	\$600.00	6	\$600.00	6	\$600.00	24	\$2,400.00
18	2123.610	SKID LOADER	HR	\$145.00	6	\$870.00	6	\$870.00	6	\$870.00	6	\$870.00	24	\$3,480.00
19	2123.610	STREET SWEEPER (WITH PICKUP BROOM AND WATER)	HR	\$200.00	6	\$1,200.00	6	\$1,200.00	6	\$1,200.00	6	\$1,200.00	24	\$4,800.00
20	2211.607	AGGREGATE BASE SPECIAL (20')	CU YD	\$35.00	12	\$420.00							12	\$420.00
21	2216.504	FULL DEPTH RECLAMATION	SO YD	\$2.00	1101	\$2,202.20							1101	\$2,202.20
22	2332.504	MILL BITUMINOUS SURFACE (2.0')	SO YD	\$2.00										
23	2301.504	CONCRETE PAVEMENT 8"	SO YD	\$90.00										
24	2302.518	SPOT FULL DEPTH REPAIR	SO FT	\$2.00										
25	2302.504	BITUMINOUS DRIVEWAY REPLACEMENT	SO YD	\$42.00	56	\$2,352.00							56	\$2,352.00
26	2305.509	TYPE SP 9.5 WEARING COURSE MIX (3.C)	TON	\$95.00	199	\$18,949.49	2	\$189.28					201	\$19,138.77
27	2305.509	TYPE SP 12.5 NON-WEARING COURSE MIX (3.B)	TON	\$85.00	199	\$16,962.12	2	\$169.35					201	\$17,121.47
28	2503.503	12" RC PIPE SEWER DESIGN 3006 CLASS V	LN FT	\$75.00										
29	2503.601	TRACER WIRE SYSTEM (SANITARY)	LUMP SUM	\$500.00										
30	2503.602	CONNECT TO EXISTING STORM SEWER	EACH	\$1,300.00										
31	2503.602	CONNECT TO EXISTING SANITARY SEWER	EACH	\$1,800.00										
32	2503.603	8" PIPE SEWER	LN FT	\$85.00										
33	2504.502	HYDRANT	EACH	\$5,500.00										
34	2504.602	HYDRANT RESTORATION	EACH	\$2,500.00										
35	2504.602	8" GATE VALVE REPLACEMENT	EACH	\$1,500.00										
36	2504.602	WATERMAIN EXCAVATORY EXCAVATION	HR	\$700.00										
37	2504.602	ADJUST VALVE BOX	EACH	\$325.00						1	\$325.00		1	\$325.00
38	2504.602	VALVE BOX MID SECTION	EACH	\$250.00						1	\$250.00		1	\$250.00
39	2504.602	WATERMAIN TEE	EACH	\$6,500.00										
40	2506.502	CASTING ASSEMBLY (SANITARY 700-7)	EACH	\$1,200.00				3	\$3,600.00				3	\$3,600.00
41	2506.502	CASTING ASSEMBLY (STORM 700-7)	EACH	\$1,300.00										
42	2506.502	CASTING ASSEMBLY (STORM NEENAH R-3200-EVSP)	EACH	\$3,500.00			2	\$3,100.00					2	\$3,100.00
43	2506.502	CASTING ASSEMBLY (STORM NEENAH R-3200-EVSP)	EACH	\$1,300.00										
44	2506.503	CONSTRUCT DRAINAGE STRUCTURE 48-4020	LN FT	\$1,000.00										
45	2506.503	CONSTRUCT DRAINAGE STRUCTURE DESIGN H	LN FT	\$500.00										
46	2506.602	RECONSTRUCT DRAINAGE STRUCTURE	EACH	\$2,000.00			4	\$8,000.00					4	\$8,000.00
47	2506.602	CROUT CATCH BASIN OR MANHOLE	CU YD	\$600.00			0.125	\$75.00			0.125	\$75.00	0	\$150.00
48	2506.603	CONSTRUCT OUTSIDE DROP	LN FT	\$1,400.00										
49	2506.603	SANITARY MANHOLE EXCESS DEPTH	LN FT	\$500.00										
50	2521.518	6" CONCRETE WALK	SO FT	\$17.50										
51	2521.518	3" BITUMINOUS WALK	SO FT	\$3.50										
52	2531.503	CONCRETE CURB & GUTTER DESIGN B624	LN FT	\$24.00										
53	2531.504	8" CONCRETE DRIVEWAY PAVEMENT	SO YD	\$75.00	289	\$8,840.00	40	\$960.00					329	\$9,800.00
54	2531.604	8" CONCRETE VALLEY GUTTER	SO YD	\$97.50										
55	2531.618	TRUNCATED DOMES	SO FT	\$65.00										
56	2540.602	MAIL BOX SUPPORT	EACH	\$125.00	4	\$500.00							4	\$500.00
57	2563.601	TRAFFIC CONTROL	LUMP SUM	\$3,000.00	0.83	\$2,460.00	0.10	\$300.00	0.05	\$150.00	0.02	\$60.00	1	\$3,000.00
58	2564.518	SIGN PANELS TYPE C	SO FT	\$60.00	5	\$300.00							5	\$300.00
59	2573.502	STORM DRAIN INLET PROTECTION	EACH	\$165.00										
60	2573.503	SEDIMENT CONTROL LOG TYPE WOOD FIBER	LN FT	\$5.00	286	\$1,430.00							286	\$1,430.00
61	2573.503	SILT FENCE, TYPE MS	LN FT	\$4.00	286	\$1,144.00							286	\$1,144.00
62	2573.501	STABILIZED CONSTRUCTION EXIT	EACH	\$1,200.00	1	\$1,200.00	1	\$1,200.00					2	\$2,400.00
63	2574.507	SCREENED TOPSOIL BERMROW	CU YD	\$40.00	36	\$1,440.00							36	\$1,440.00
64	2574.508	FERTILIZER TYPE 3 (15-10-20) (SEEDING)	POUND	\$1.75	4	\$7.00							4	\$7.00
65	2574.508	FERTILIZER TYPE 3 (22-5-10) (SOO)	POUND	\$1.75										
66	2575.504	SOD TYPE LAWN	SO YD	\$17.50										
67	2575.508	SEED MIXTURE 22-111 (TEMPORARY SEEDING)	POUND	\$5.50	8	\$44.00							8	\$44.00
68	2575.508	SEED MIXTURE 25-151	POUND	\$7.00	8	\$56.00							8	\$56.00
69	2575.508	HYDRALIC REINFORCED FIBER MATRIX	POUND	\$3.00	138	\$414.00							138	\$414.00
70	2575.523	WATER	MGAL	\$45.00	10	\$450.00							10	\$450.00
71	2575.605	SEEDING	ACRE	\$600.00	0.07	\$42.00							0.07	\$42.00
72	2582.503	4" SOLID LINE PAINT	LN FT	\$0.85										
73	2582.503	4" BROKEN LINE PAINT	LN FT	\$0.85	286	\$243.10							286	\$243.10
74	2582.503	2" SOLID LINE PAINT	LN FT	\$0.85										
75	2582.503	4" DOUBLE SOLID LINE PAINT	LN FT	\$0.85										

ESTIMATED CONSTRUCTION COST:	\$3,940,105.78	72%	\$76,857.51	17%	\$18,265.00	8%	\$8,112.96	3%	\$3,505.00	100%	\$106,740.47
CONTINGENCIES (15%):	\$591,015.87		\$11,528.63		\$2,739.75		\$1,216.94		\$525.75		\$16,011.07
SUBTOTAL:	\$4,531,121.65		\$88,386.13		\$21,004.75		\$9,329.90		\$4,030.75	2.71%	\$122,751.54
ENGINEERING, LEGAL, FINANCE, ADMIN AND OTHER COSTS (25%):	\$1,132,780.41		\$22,096.53		\$5,251.19		\$2,332.48		\$1,007.69		\$30,687.88
ESTIMATED TOTAL PROJECT COST:	\$5,663,902.06		\$110,482.66		\$26,255.94		\$11,662.38		\$5,038.44		\$153,439.42



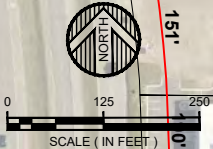
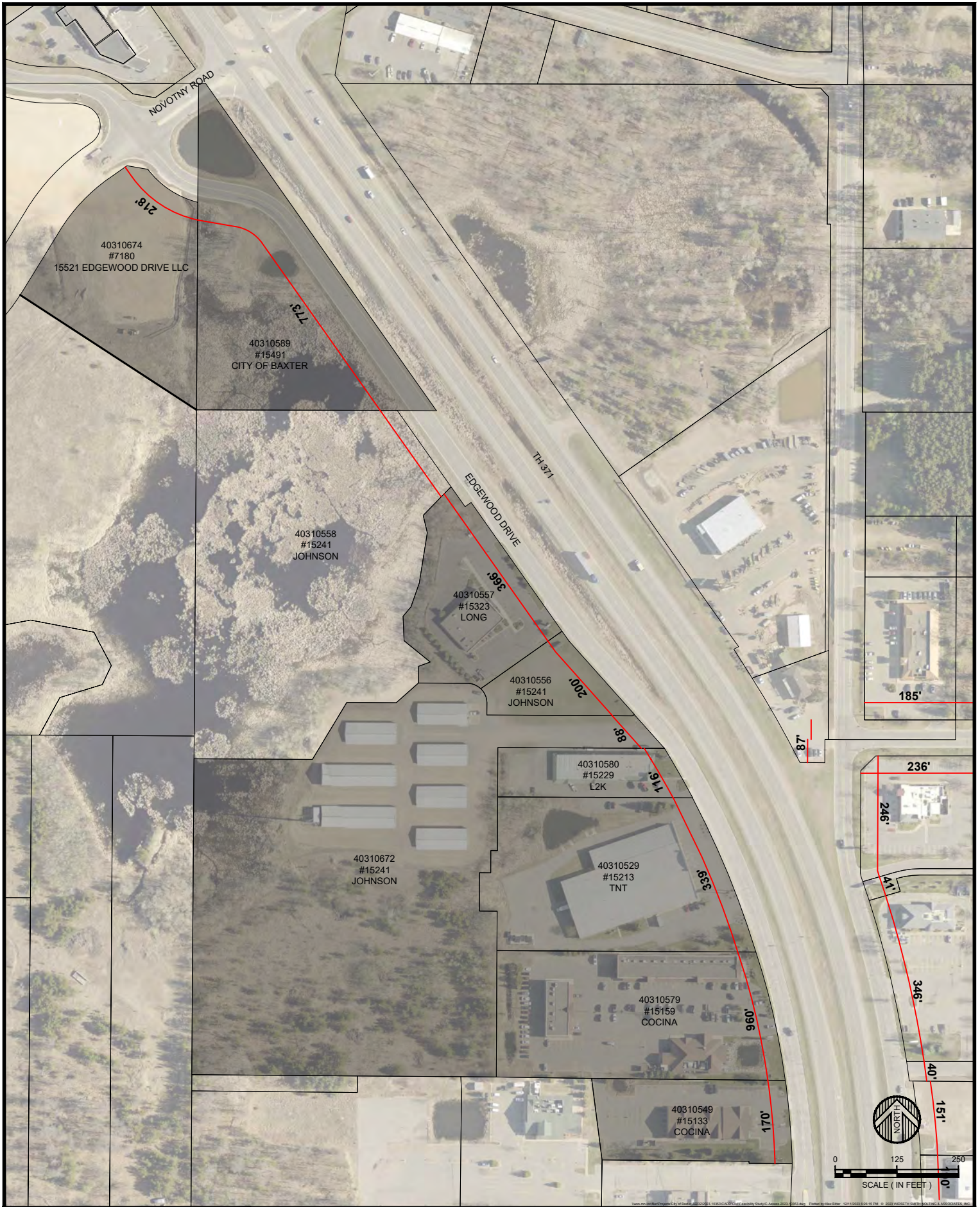
DATE	REV#	REVISIONS DESCRIPTION	BY

DATE: JUNE 2023
SCALE: AS SHOWN
DRAWN BY: TJS
CHECKED BY: ADB
JOB NUMBER: 2023-10353

2024 MILL & OVERLAY AND FULL DEPTH RECLAMATION IMPROVEMENTS PROJECT
ENGINEER'S ESTIMATE AND ASSESSMENT CALCULATIONS
BAXTER, MN
 Monday, December 11, 2023

ITEM NO.	SPEC NO.	ITEM DESCRIPTION	UNIT	UNIT PRICE	EDGEWOOD DRIVE										TOTAL PROJECT	
					ASSESSABLE ROADWAY		CITY ROADWAY		STORM SEWER		SANITARY SEWER		WATER		ESTIMATED QUANTITY	TOTAL COST
					ESTIMATED QUANTITY	TOTAL COST	ESTIMATED QUANTITY	TOTAL COST	ESTIMATED QUANTITY	TOTAL COST	ESTIMATED QUANTITY	TOTAL COST	ESTIMATED QUANTITY	TOTAL COST		
1	2104.501	MOBILIZATION	LUMP SUM	\$10,000.00	0.87	\$8,700.00	0.81	\$100.00	0.09	\$900.00	0.02	\$200.00	0.01	\$100.00	1	\$10,000.00
2	2104.502	REMOVE CASTING (SANITARY)	EACH	\$25.00											6	\$1,500.00
3	2104.502	REMOVE CASTING (STORM)	EACH	\$25.00					14	\$350.00					14	\$350.00
4	2104.502	REMOVE SIGN	EACH	\$40.00					7	\$280.00					7	\$280.00
5	2104.502	REMOVE MAN BOX SUPPORT	EACH	\$40.00					2	\$80.00					2	\$80.00
6	2104.503	SAWING CONCRETE PAVEMENT (FULL DEPTH)	LN FT	\$7.50											586	\$4,395.00
7	2104.503	SAWING BITUMINOUS PAVEMENT (FULL DEPTH)	LN FT	\$4.00					417	\$1,668.00					586	\$2,334.00
8	2104.503	REMOVE SEWER PIPE (SANITARY)	LN FT	\$10.00												
9	2104.503	REMOVE CURB & GUTTER	LN FT	\$4.00	4650	\$18,600.00			280	\$1,120.00					4930	\$19,720.00
10	2104.504	REMOVE CONCRETE PAVEMENT	SQ YD	\$10.00	206	\$2,060.00									206	\$2,060.00
11	2104.504	REMOVE BITUMINOUS PAVEMENT	SQ YD	\$6.00	64	\$384.00									64	\$384.00
12	2106.604	DOT/ENCOURAGEMENT	SQ YD	\$10.00												
13	2112.603	SHOULDER PREPARATION	LN FT	\$0.50												
14	2112.619	RECLAIMED AGGREGATE BASE PREPARATION	ROAD STA	\$300.00	27	\$8,100.00									27	\$8,100.00
15	2105.607	EXCAVATION SPECIAL	CU YD	\$18.00	748	\$13,464.00									748	\$13,464.00
16	2105.607	COMMON EXCAVATION	CU YD	\$15.00	1798	\$26,970.00									1798	\$26,970.00
17	2123.510	COMMON LABORERS	HR	\$10.00	6	\$60.00			6	\$60.00				6	\$60.00	
18	2123.610	SMOKE STACK	HR	\$140.00	6	\$840.00			6	\$840.00				6	\$840.00	
19	2123.610	STREET SWEEPER (WITH PICKUP BROOM AND WATER)	HR	\$200.00	6	\$1,200.00			6	\$1,200.00				6	\$1,200.00	
20	2211.607	AGGREGATE BASE (SPECIAL) (CV)	CU YD	\$30.00	12	\$360.00									12	\$360.00
21	2215.504	FULL DEPTH RECLAMATION	SQ YD	\$2.00	8084	\$16,168.00									8084	\$16,168.00
22	2202.604	MIL BITUMINOUS SURFACE (2")	SQ YD	\$2.00												
23	2201.504	CONCRETE PAVEMENT 8"	SQ YD	\$60.00												
24	2202.516	SPOT FULL DEPTH REPAIR	SQ FT	\$2.50												
25	2402.604	BITUMINOUS OVERLAY REPAIR/REPLACEMENT	SQ YD	\$40.00	64	\$2,560.00									64	\$2,560.00
26	2460.509	TYPE SF 9.5 HEARING COURSE MIX (3.0)	TON	\$60.00	1464	\$87,840.00	33	\$1,980.00	0	\$0.00				1497	\$89,820.00	
27	2460.509	TYPE SF 12.5 NON-HEARING COURSE MIX (3.0)	TON	\$60.00	1464	\$87,840.00	17	\$1,020.00	0	\$0.00				1481	\$88,860.00	
28	2603.603	12" HD PIPE (REINFORCED CONCRETE CLASS V)	LN FT	\$75.00												
29	2603.601	TRACER WIRE SYSTEM (SANITARY)	LUMP SUM	\$500.00												
30	2603.602	CONNECT TO EXISTING STORM SEWER	EACH	\$1,300.00												
31	2603.602	CONNECT TO EXISTING SANITARY SEWER	EACH	\$1,050.00												
32	2603.603	8" PIPE SEWER	LN FT	\$80.00												
33	2604.502	HYDRANT	EACH	\$5,000.00												
34	2604.602	HYDRANT RESTORATION	EACH	\$2,500.00												
35	2604.602	8" GATE VALVE REPAIR/REPLACEMENT	EACH	\$1,000.00												
36	2604.602	WATERMAIN EXPLORATORY EXCAVATION	HR	\$700.00												
37	2604.602	ADJUST VALVE BOX	EACH	\$325.00												
38	2604.602	VALVE BOX AND SECTION	EACH	\$250.00												
39	2604.602	WATERMAIN TEE	EACH	\$6,000.00												
40	2606.602	CASTING ASSEMBLY (SANITARY 10-1)	EACH	\$1,200.00												
41	2606.602	CASTING ASSEMBLY (STORM 10-1)	EACH	\$1,200.00												
42	2606.602	CASTING ASSEMBLY (STORM REINFORCED 10-1)	EACH	\$1,500.00					14	\$21,000.00					14	\$21,000.00
43	2606.602	CASTING ASSEMBLY (STORM REINFORCED 10-1)	EACH	\$1,500.00												
44	2606.603	CONSTRUCT DRAINAGE STRUCTURE 48-4020	LN FT	\$1,000.00												
45	2606.603	CONSTRUCT DRAINAGE STRUCTURE DESIGN H	LN FT	\$600.00												
46	2606.602	RECONSTRUCT DRAINAGE STRUCTURE	EACH	\$2,000.00					8	\$16,000.00					8	\$16,000.00
47	2606.602	GROUT CATCH BASIN OR MANHOLE	CU YD	\$600.00					0.125	\$75.00					0.125	\$75.00
48	2606.603	CONSTRUCT OUTSIDE SLOP	LN FT	\$1,400.00												
49	2606.603	SANITARY MANHOLE EXCESS DEPTH	LN FT	\$500.00												
50	2621.616	8" CONCRETE WALK	SQ FT	\$17.50												
51	2621.616	3" BITUMINOUS WALK	SQ FT	\$3.50												
52	2631.603	CONCRETE CURB & GUTTER DESIGN WIDTH	LN FT	\$24.00	4650	\$111,600.00	100	\$3,600.00	280	\$8,400.00					4930	\$123,600.00
53	2631.504	8" CONCRETE DRIVEWAY PAVEMENT	SQ YD	\$75.00												
54	2631.604	8" CONCRETE VALLEY GUTTER	SQ YD	\$87.50	200	\$17,500.00									200	\$17,500.00
55	2631.616	TRUNCATED CURBS	SQ FT	\$60.00												
56	2640.602	MAN BOX SUPPORT	EACH	\$125.00					2	\$250.00					2	\$250.00
57	2663.601	TRAFFIC CONTROL	LUMP SUM	\$3,000.00	0.87	\$2,610.00	0.61	\$38.94	0.9959	\$297.63	0.02	\$61.48	0.000949	\$29.35	1	\$3,000.00
58	2664.516	SIGN PANELS TYPE C	SQ FT	\$60.00	38	\$2,280.00									38	\$2,280.00
59	2673.502	STORM DRAIN PILE PROTECTION	EACH	\$150.00												
60	2673.603	SEDIMENT CONTROL LOG TYPE WOOD FIBER	LN FT	\$8.00	2368	\$18,944.00			14	\$112.00					2382	\$19,056.00
61	2673.603	SEDIMENT CONTROL LOG TYPE WOOD FIBER	LN FT	\$4.00	2368	\$9,472.00									2368	\$9,472.00
62	2673.601	STABILIZED CONSTRUCTION EXIT	EACH	\$1,000.00	2	\$2,000.00									2	\$2,000.00
63	2674.507	SCREENED TOPSOIL BORROW	CU YD	\$45.00	330	\$14,850.00									330	\$14,850.00
64	2674.508	FERTILIZER TYPE 3 (15-10-20) (SEEDING)	POUND	\$1.75	37	\$64.75									37	\$64.75
65	2674.508	FERTILIZER TYPE 3 (15-10-20) (SEED)	POUND	\$1.75	74	\$129.50									74	\$129.50
66	2675.504	800 TYPE LAMIN	SQ YD	\$17.50												
67	2675.508	SEED MIXTURE 20-111 (TEMPORARY SEEDING)	POUND	\$5.50	74	\$407.00									74	\$407.00
68	2675.508	SEED MIXTURE 20-111 (SEED)	POUND	\$7.00	74	\$518.00									74	\$518.00
69	2675.508	HYDRALIC REINFORCED FIBER MATRIX	POUND	\$3.50	1362	\$4,767.00									1362	\$4,767.00
70	2675.623	WATER	MGAL	\$45.00	10	\$450.00									10	\$450.00
71	2675.625	SEEDING	ACRE	\$600.00	0.62	\$372.00									1	\$372.00
72	2682.503	4" SOLID LINE PAINT	LN FT	\$0.85												
73	2682.503	4" BROKEN LINE PAINT	LN FT	\$0.85	2200	\$1,870.00									2200	\$1,870.00
74	2682.503	8" SOLID LINE PAINT	LN FT	\$0.85												
75	2682.503	8" DOUBLE SOLID LINE PAINT	LN FT	\$0.85	280	\$238.00									280	\$238.00

ESTIMATED CONSTRUCTION COST:	\$3,940,109.78	87.0087%	\$588,000.00	1.30%	\$8,318.94	0.56%	\$55,042.63	2.11%	\$13,562.36	1.00%	\$6,399.95	100%	\$641,384.64
CONTINGENCIES (15%):	\$591,016.87		\$83,209.10		\$1,247.84		\$8,256.39		\$2,034.35		\$950.99		\$96,267.68
SUBTOTAL:	\$4,531,126.65		\$671,209.10		\$9,566.78		\$63,299.02		\$15,596.71		\$7,350.94	16.28%	\$737,652.32
ENGINEERING, LEGAL, FINANCE, ADMIN AND OTHER COSTS (25%):	\$1,132,780.41		\$160,442.44		\$2,391.70		\$15,824.75		\$3,899.18		\$1,530.00		\$154,398.05
ESTIMATED TOTAL PROJECT COST:	\$5,663,907.06		\$832,212.20		\$11,958.48		\$79,123.77		\$19,495.89		\$8,880.93		\$891,990.27



DATE	REV#	REVISIONS DESCRIPTION	BY

DATE: JUNE 2023
SCALE: AS SHOWN
DRAWN BY: TJS
CHECKED BY: ADB
JOB NUMBER: 2023-10353

2024 MILL & OVERLAY AND FULL DEPTH RECLAMATION IMPROVEMENTS PROJECT
ENGINEER'S ESTIMATE AND ASSESSMENT CALCULATIONS
BAXTER, MN
 Monday, December 11, 2023

ITEM NO.	SPEC NO.	ITEM DESCRIPTION	UNIT	UNIT PRICE	NOVOYNY ROAD								TOTAL PROJECT	
					CITY ROADWAY		STORM SEWER		SANITARY SEWER		WATER		ESTIMATED QUANTITY	TOTAL COST
					ESTIMATED QUANTITY	TOTAL COST	ESTIMATED QUANTITY	TOTAL COST	ESTIMATED QUANTITY	TOTAL COST	ESTIMATED QUANTITY	TOTAL COST		
1	2021.501	MOBILIZATION	LUMP SUM	\$10,000.00	0.81	\$8,100.00	0.13	\$1,300.00	0.03	\$300.00	0.03	\$300.00	1	\$10,000.00
2	2104.502	REMOVE CASTING (SANITARY)	EACH	\$235.00				1	\$235.00				1	\$235.00
3	2104.502	REMOVE CASTING (STORM)	EACH	\$235.00			7	\$1,645.00					7	\$1,645.00
4	2104.502	REMOVE SIGN	EACH	\$450.00	3	\$120.00							3	\$120.00
5	2104.502	REMOVE MAIL BOX SUPPORT	EACH	\$45.00										
6	2104.503	SAWING CONCRETE PAVEMENT (FULL DEPTH)	LN FT	\$7.50										
7	2104.503	SAWING BITUMINOUS PAVEMENT (FULL DEPTH)	LN FT	\$4.00	60	\$240.00	28	\$112.00	27	\$108.00			115	\$460.00
8	2104.503	REMOVE SEWER PIPE (SANITARY)	LN FT	\$16.00										
9	2104.503	REMOVE CURB & GUTTER	LN FT	\$4.00	511	\$2,044.00	120	\$480.00					631	\$2,524.00
10	2104.504	REMOVE CONCRETE PAVEMENT	SO YD	\$10.00										
11	2104.504	REMOVE BITUMINOUS PAVEMENT	SO YD	\$6.00			5	\$32.67	11	\$65.33			16	\$98.00
12	2105.604	DITCH EXCAVATION	SO YD	\$10.00										
13	2112.603	SHOULDER PREPARATION	LN FT	\$0.50										
14	2112.619	RECLAIMED AGGREGATE BASE PREPARATION	ROAD STA	\$300.00	3	\$900.00							3	\$900.00
15	2105.607	EXCAVATION SPECIAL	CU YD	\$16.00	129	\$2,068.80							129	\$2,068.80
16	2105.607	COMMON EXCAVATION	CU YD	\$15.00	296	\$4,433.33							296	\$4,433.33
17	2123.510	COMMON LABORERS	HR	\$100.00	6	\$600.00	6	\$600.00	6	\$600.00	6	\$600.00	24	\$2,400.00
18	2123.610	SKID LOADER	HR	\$145.00	6	\$870.00	6	\$870.00	6	\$870.00	6	\$870.00	24	\$2,460.00
19	2123.610	STREET SWEEPER (WITH PICKUP BROOM AND WATER)	HR	\$200.00	6	\$1,200.00	6	\$1,200.00	6	\$1,200.00	6	\$1,200.00	24	\$4,800.00
20	2211.607	AGGREGATE BASE SPECIAL (2")	CU YD	\$35.00	12	\$420.00							12	\$420.00
21	2216.504	FULL DEPTH RECLAMATION	SO YD	\$2.00	1330	\$2,660.00							1330	\$2,660.00
22	2332.504	MILL BITUMINOUS SURFACE (2")	SO YD	\$2.00										
23	2301.504	CONCRETE PAVEMENT 8"	SO YD	\$90.00										
24	2302.518	SPOT FULL DEPTH REPAIR	SO FT	\$2.00										
25	2302.504	BITUMINOUS DRIVEWAY REPLACEMENT	SO YD	\$45.00										
26	2305.509	TYPE SP 9.5 WEARING COURSE MIX (3.C)	TON	\$95.00	241	\$22,885.14	1	\$86.03	2	\$189.28			244	\$23,160.45
27	2305.509	TYPE SP 12.5 NON-WEARING COURSE MIX (3.B)	TON	\$85.00	241	\$20,476.18	1	\$76.98	2	\$169.35			244	\$20,722.51
28	2503.503	12" RC PIPE SEWER DESIGN 3006 CLASS V	LN FT	\$75.00										
29	2503.601	TRACER WIRE SYSTEM (SANITARY)	LUMP SUM	\$500.00										
30	2503.602	CONNECT TO EXISTING STORM SEWER	EACH	\$1,300.00										
31	2503.602	CONNECT TO EXISTING SANITARY SEWER	EACH	\$1,800.00										
32	2503.603	8" PIPE SEWER	LN FT	\$85.00										
33	2504.502	HYDRANT	EACH	\$5,500.00										
34	2504.602	HYDRANT RESTORATION	EACH	\$2,500.00										
35	2504.602	8" GATE VALVE REPLACEMENT	EACH	\$1,500.00										
36	2504.602	WATERMAIN EXCAVATORY EXCAVATION	HR	\$700.00										
37	2504.602	ADJUST VALVE BOX	EACH	\$325.00						3	\$975.00		3	\$975.00
38	2504.602	VALVE BOX MID SECTION	EACH	\$250.00						1	\$250.00		1	\$250.00
39	2504.602	WATERMAIN TEE	EACH	\$6,500.00										
40	2506.502	CASTING ASSEMBLY (SANITARY 700-7)	EACH	\$1,200.00				1	\$1,200.00				1	\$1,200.00
41	2506.502	CASTING ASSEMBLY (STORM 700-7)	EACH	\$1,200.00										
42	2506.502	CASTING ASSEMBLY (STORM NEMAH R-3250-EVSP)	EACH	\$1,500.00			6	\$9,300.00					6	\$9,300.00
43	2506.502	CASTING ASSEMBLY (STORM NEMAH R-3250-EVSP)	EACH	\$1,300.00			1	\$1,300.00					1	\$1,300.00
44	2506.503	CONSTRUCT DRAINAGE STRUCTURE 48-4020	LN FT	\$1,000.00										
45	2506.503	CONSTRUCT DRAINAGE STRUCTURE DESIGN H	LN FT	\$500.00										
46	2506.602	RECONSTRUCT DRAINAGE STRUCTURE	EACH	\$2,000.00			2	\$4,000.00					2	\$4,000.00
47	2506.602	CROUT CATCH BASIN OR MANHOLE	CU YD	\$600.00			0.125	\$75.00			0.125	\$75.00	0	\$150.00
48	2506.603	CONSTRUCT OUTSIDE DROP	LN FT	\$1,400.00										
49	2506.603	SANITARY MANHOLE EXCESS DEPTH	LN FT	\$500.00										
50	2521.518	6" CONCRETE WALK	SO FT	\$17.50										
51	2521.518	3" BITUMINOUS WALK	SO FT	\$3.50										
52	2531.503	CONCRETE CURB & GUTTER DESIGN B624	LN FT	\$24.00										
53	2531.504	8" CONCRETE DRIVEWAY PAVEMENT	SO YD	\$75.00			511	\$12,272.40	120	\$2,880.00			631	\$15,152.40
54	2531.604	8" CONCRETE VALLEY GUTTER	SO YD	\$97.50										
55	2531.618	TRUNCATED DOMES	SO FT	\$65.00										
56	2540.602	MAIL BOX SUPPORT	EACH	\$125.00										
57	2563.601	TRAFFIC CONTROL	LUMP SUM	\$3,000.00	0.81	\$2,430.00	0.13	\$390.00	0.03	\$90.00	0.03	\$90.00	1	\$3,000.00
58	2564.516	SIGN PANELS TYPE C	SO FT	\$60.00	16	\$975.00							16	\$975.00
59	2573.502	STORM DRAIN INLET PROTECTION	EACH	\$165.00									6	\$990.00
60	2573.503	SEDIMENT CONTROL LOG TYPE WOOD FIBER	LN FT	\$5.00	178	\$890.00							178	\$890.00
61	2573.503	SILT FENCE TYPE MS	LN FT	\$4.00	178	\$712.00							178	\$712.00
62	2573.501	STABILIZED CONSTRUCTION EXIT	EACH	\$1,200.00	1	\$1,200.00							1	\$1,200.00
63	2574.507	SCREENED TOPSOIL BROW	CU YD	\$40.00	38	\$1,710.00							38	\$1,710.00
64	2574.508	FERTILIZER TYPE 3 (15-10-20) (SEEDING)	POUND	\$1.75	4	\$7.00							4	\$7.00
65	2574.508	FERTILIZER TYPE 3 (22-5-10) (SOO)	POUND	\$1.75										
66	2575.504	SOD TYPE LAWN	SO YD	\$17.50	333	\$5,833.33							333	\$5,833.33
67	2575.508	SEED MIXTURE 22-111 (TEMPORARY SEEDING)	POUND	\$5.50	8	\$44.00							8	\$44.00
68	2575.508	SEED MIXTURE 25-151	POUND	\$7.00	8	\$56.00							8	\$56.00
69	2575.508	HYDRAULIC REINFORCED FIBER MATRIX	POUND	\$3.00	147	\$441.00							147	\$441.00
70	2575.523	WATER	MGAL	\$45.00	10	\$450.00							10	\$450.00
71	2575.605	SEEDING	ACRE	\$600.00	0.07	\$42.00							0.07	\$42.00
72	2582.503	4" SOLID LINE PAINT	LN FT	\$9.85	580	\$5,718.00							580	\$5,718.00
73	2582.503	4" BROKEN LINE PAINT	LN FT	\$9.85										
74	2582.503	8" SOLID LINE PAINT	LN FT	\$9.85										
75	2582.503	4" DOUBLE SOLID LINE PAINT	LN FT	\$9.85	40	\$394.00							40	\$394.00

ESTIMATED CONSTRUCTION COST:	\$3,940,105.78	73%	\$94,683.93	20%	\$25,337.68	4%	\$5,101.96	3%	\$4,285.00	100%	\$129,408.57
CONTINGENCIES (15%):	\$591,015.87				\$3,800.65		\$765.29		\$642.75		\$19,411.29
SUBTOTAL:	\$4,531,121.65		\$108,686.52		\$20,138.33		\$5,867.25		\$4,927.75	3.28%	\$148,819.86
ENGINEERING, LEGAL, FINANCE, ADMIN AND OTHER COSTS (25%):	\$1,132,780.41		\$27,221.63		\$7,284.58		\$1,466.81		\$1,231.94		\$37,204.96
ESTIMATED TOTAL PROJECT COST:	\$5,663,902.06		\$136,108.15		\$36,422.91		\$7,334.07		\$6,169.69		\$186,024.82



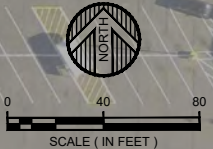
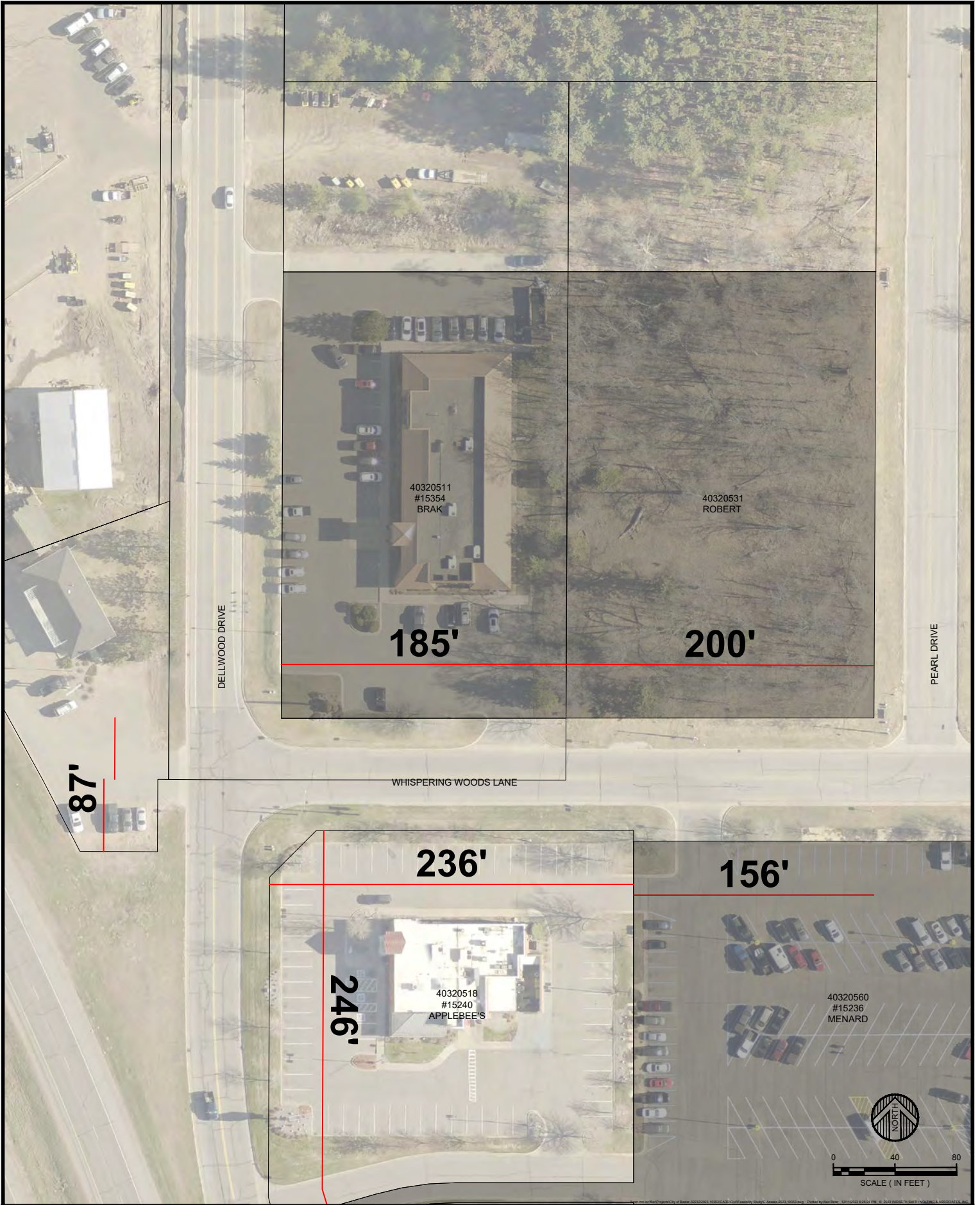
DATE	REV#	REVISIONS DESCRIPTION	BY

DATE: JUNE 2023
SCALE: AS SHOWN
DRAWN BY: TJS
CHECKED BY: ADB
JOB NUMBER: 2023-10353

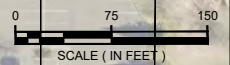
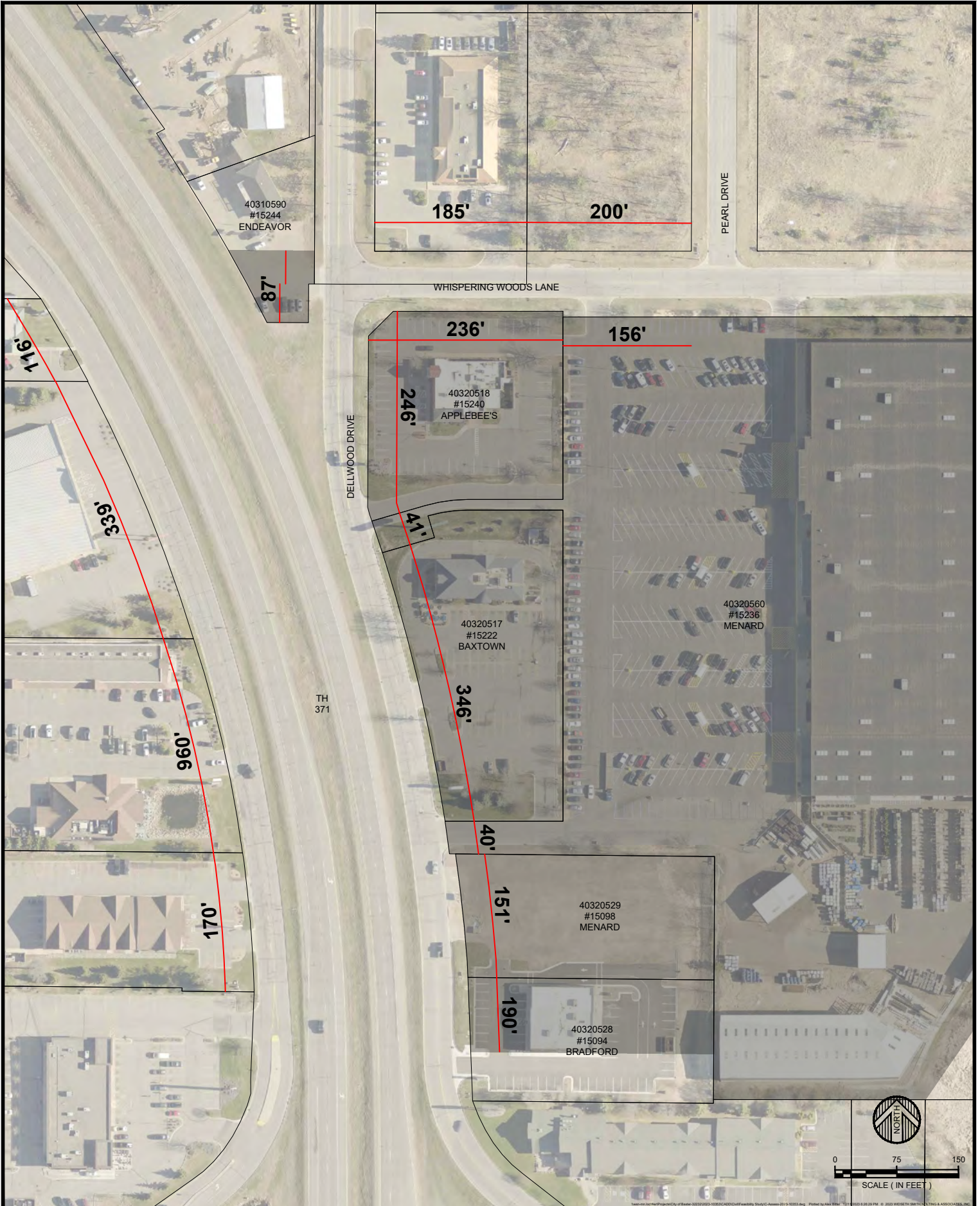
2024 MILL & OVERLAY AND FULL DEPTH RECLAMATION IMPROVEMENTS PROJECT
ENGINEER'S ESTIMATE AND ASSESSMENT CALCULATIONS
BAXTER, MN
 Monday, December 11, 2023

ITEM NO.	SPEC NO.	ITEM DESCRIPTION	UNIT	UNIT PRICE	WHISPERING WOODS LANE									
					ASSESSABLE ROADWAY		STORM SEWER		SANITARY SEWER		WATER		TOTAL PROJECT	
					ESTIMATED QUANTITY	TOTAL COST	ESTIMATED QUANTITY	TOTAL COST	ESTIMATED QUANTITY	TOTAL COST	ESTIMATED QUANTITY	TOTAL COST	ESTIMATED QUANTITY	TOTAL COST
1	2021.501	MOBILIZATION	LUMP SUM	\$10,000.00	0.85	\$8,500.00	0.10	\$1,000.00	0.02	\$200.00	0.03	\$300.00	1	\$10,000.00
2	2104.502	REMOVE CASTING (SANITARY)	EACH	\$235.00				1	\$235.00				1	\$235.00
3	2104.502	REMOVE CASTING (STORM)	EACH	\$235.00			4	\$940.00					4	\$940.00
4	2104.502	REMOVE SIGN	EACH	\$450.00									8	\$3,600.00
5	2104.502	REMOVE MAIL BOX SUPPORT	EACH	\$450.00			1	\$450.00					1	\$450.00
6	2104.503	SAWING CONCRETE PAVEMENT (FULL DEPTH)	LN FT	\$7.50									116	\$862.50
7	2104.503	SAWING BITUMINOUS PAVEMENT (FULL DEPTH)	LN FT	\$4.00			88	\$352.00			28	\$112.00		\$464.00
8	2104.503	REMOVE SEWER PIPE (SANITARY)	LN FT	\$16.00										
9	2104.503	REMOVE CURB & GUTTER	LN FT	\$4.00			690	\$2,760.00			80	\$320.00		\$3,080.00
10	2104.504	REMOVE CONCRETE PAVEMENT	SO YD	\$10.00			90	\$900.00					90	\$900.00
11	2104.504	REMOVE BITUMINOUS PAVEMENT	SO YD	\$6.00			133	\$800.00			5	\$30.00		\$830.00
12	2105.604	DITCH EXCAVATION	SO YD	\$10.00										
13	2112.603	SHOULDER PREPARATION	LN FT	\$0.50										
14	2112.610	RECLAIMED AGGREGATE BASE PREPARATION	ROAD STA	\$300.00			5	\$1,500.00					5	\$1,500.00
15	2105.607	EXCAVATION SPECIAL	CU YD	\$16.00			180	\$2,880.00					180	\$2,880.00
16	2105.607	COMMON EXCAVATION	CU YD	\$15.00			431	\$6,465.00					431	\$6,465.00
17	2123.510	COMMON LABORERS	HR	\$100.00			6	\$600.00			6	\$600.00	6	\$600.00
18	2123.510	SKID LOADER	HR	\$145.00			6	\$870.00			6	\$870.00	6	\$870.00
19	2123.510	STREET SWEEPER (WITH PICKUP BROOM AND WATER)	HR	\$200.00			6	\$1,200.00			6	\$1,200.00	6	\$1,200.00
20	2211.607	AGGREGATE BASE SPECIAL (2")	CU YD	\$35.00			12	\$420.00					12	\$420.00
21	2215.504	FULL DEPTH RECLAMATION	SO YD	\$2.00			1940	\$3,880.00					1940	\$3,880.00
22	2332.504	MILL BITUMINOUS SURFACE (2")	SO YD	\$2.00										
23	2301.504	CONCRETE PAVEMENT 8"	SO YD	\$90.00			10	\$900.00					10	\$900.00
24	2302.518	SPOT FULL DEPTH REPAIR	SO FT	\$2.00										
25	2302.504	BITUMINOUS DRIVEWAY REPLACEMENT	SO YD	\$45.00			133	\$5,985.00					133	\$5,985.00
26	2305.509	TYPE SP 9.5 WEARING COURSE MIX (3.C)	TON	\$95.00			351	\$33,345.00			1	\$95.00	352	\$33,440.00
27	2305.509	TYPE SP 12.5 NON-WEARING COURSE MIX (3.B)	TON	\$55.00			351	\$19,305.00			1	\$55.00	352	\$19,360.00
28	2503.503	12" RC PIPE SEWER DESIGN 3006 CLASS V	LN FT	\$75.00										
29	2503.601	TRACER WIRE SYSTEM (SANITARY)	LUMP SUM	\$500.00										
30	2503.602	CONNECT TO EXISTING STORM SEWER	EACH	\$1,300.00										
31	2503.602	CONNECT TO EXISTING SANITARY SEWER	EACH	\$1,800.00										
32	2503.603	8" PIPE SEWER	LN FT	\$85.00										
33	2504.502	HYDRANT	EACH	\$5,500.00										
34	2504.602	HYDRANT RESTORATION	EACH	\$2,500.00										
35	2504.602	8" GATE VALVE REPLACEMENT	EACH	\$1,500.00										
36	2504.602	WATERMAIN EXCAVATORY EXCAVATION	HR	\$700.00										
37	2504.602	ADJUST VALVE BOX	EACH	\$325.00							4	\$1,300.00	4	\$1,300.00
38	2504.602	VALVE BOX MID SECTION	EACH	\$250.00							2	\$500.00	2	\$500.00
39	2504.602	WATERMAIN TEE	EACH	\$6,500.00										
40	2506.502	CASTING ASSEMBLY (SANITARY 700-7)	EACH	\$1,200.00						1	\$1,200.00		1	\$1,200.00
41	2506.502	CASTING ASSEMBLY (STORM 700-7)	EACH	\$1,200.00										
42	2506.502	CASTING ASSEMBLY (STORM NEENAH R-3250-EVSP)	EACH	\$1,500.00			4	\$6,000.00					4	\$6,000.00
43	2506.502	CASTING ASSEMBLY (STORM NEENAH R-3250-EVSP)	EACH	\$1,300.00										
44	2506.503	CONSTRUCT DRAINAGE STRUCTURE 48-4020	LN FT	\$1,000.00										
45	2506.503	CONSTRUCT DRAINAGE STRUCTURE DESIGN H	LN FT	\$500.00										
46	2506.602	RECONSTRUCT DRAINAGE STRUCTURE	EACH	\$2,000.00			6	\$12,000.00					6	\$12,000.00
47	2506.602	CROUT CATCH BASIN OR MANHOLE	CU YD	\$600.00			0.125	\$75.00			0.125	\$75.00	0	\$150.00
48	2506.603	CONSTRUCT OUTSIDE DROP	LN FT	\$1,400.00										
49	2506.603	SANITARY MANHOLE EXCESS DEPTH	LN FT	\$500.00										
50	2521.518	6" CONCRETE WALK	SO FT	\$17.50										
51	2521.518	3" BITUMINOUS WALK	SO FT	\$3.50										
52	2531.503	CONCRETE CURB & GUTTER DESIGN B624	LN FT	\$24.00			697	\$16,728.00			80	\$1,920.00	777	\$17,648.00
53	2531.504	8" CONCRETE DRIVEWAY PAVEMENT	SO YD	\$75.00										
54	2531.604	8" CONCRETE VALLEY GUTTER	SO YD	\$97.50			62	\$6,045.00					62	\$6,045.00
55	2531.618	TRUNCATED DOMES	SO FT	\$65.00										
56	2540.602	MAIL BOX SUPPORT	EACH	\$125.00			1	\$125.00					1	\$125.00
57	2563.601	TRAFFIC CONTROL	LUMP SUM	\$3,000.00			0.85	\$2,550.00			0.10	\$300.00	0.02	\$60.00
58	2564.518	SIGN PANELS TYPE C	SO FT	\$60.00			38	\$2,280.00					38	\$2,280.00
59	2573.502	STORM DRAIN INLET PROTECTION	EACH	\$165.00									4	\$660.00
60	2573.503	SEDIMENT CONTROL LOG TYPE WOOD FIBER	LN FT	\$5.00										
61	2573.503	SILT FENCE TYPE MS	LN FT	\$4.00										
62	2573.601	STABILIZED CONSTRUCTION EXIT	EACH	\$1,200.00			1	\$1,200.00					1	\$1,200.00
63	2574.507	SCREENED TOPSOIL BERMROW	CU YD	\$45.00			58	\$2,610.00					58	\$2,610.00
64	2574.508	FERTILIZER TYPE 3 (15-10-20) (SEEDING)	POUND	\$1.75			7	\$12.25					7	\$12.25
65	2574.508	FERTILIZER TYPE 3 (22-5-10) (SOO)	POUND	\$1.75										
66	2575.504	SOD TYPE LAWN	SO YD	\$17.50										
67	2575.508	SEED MIXTURE 22-111 (TEMPORARY SEEDING)	POUND	\$5.50			13	\$71.50					13	\$71.50
68	2575.508	SEED MIXTURE 25-151	POUND	\$7.00			13	\$91.00					13	\$91.00
69	2575.508	HYDRALIC REINFORCED FIBER MATRIX	POUND	\$3.50			231	\$808.50					231	\$808.50
70	2575.523	WATER	MGAL	\$450.00			10	\$4,500.00					10	\$4,500.00
71	2575.605	SEEDING	ACRE	\$660.00			0.11	\$72.60					0	\$66.00
72	2582.503	4" SOLID LINE PAINT	LN FT	\$0.85										
73	2582.503	4" BROKEN LINE PAINT	LN FT	\$0.85			112	\$95.20					112	\$95.20
74	2582.503	2" SOLID LINE PAINT	LN FT	\$0.85										
75	2582.503	4" DOUBLE SOLID LINE PAINT	LN FT	\$0.85			350	\$297.50					350	\$297.50

ESTIMATED CONSTRUCTION COST:	\$3,940,105.78	79%	\$134,081.31	15%	\$26,085.00	3%	\$4,747.68	3%	\$4,860.00	100%	\$169,773.99
CONTINGENCIES (15%):	\$591,015.87		\$20,112.20		\$3,812.75		\$712.15		\$729.00		\$25,466.10
SUBTOTAL:	\$4,531,121.65		\$154,193.50		\$29,897.75		\$5,459.83		\$5,589.00	4.31%	\$195,240.00
ENGINEERING, LEGAL, FINANCE, ADMIN AND OTHER COSTS (25%):	\$1,132,780.41		\$38,548.38		\$7,469.44		\$1,364.96		\$1,397.25		\$48,810.02
ESTIMATED TOTAL PROJECT COST:	\$5,663,902.06		\$192,741.88		\$37,497.19		\$6,824.79		\$6,986.25		\$244,050.11



DATE	REV#	REVISIONS DESCRIPTION	BY



DATE	REV#	REVISIONS DESCRIPTION	BY

2024 MILL & OVERLAY AND FULL DEPTH RECLAMATION IMPROVEMENTS PROJECT
ENGINEER'S ESTIMATE AND ASSESSMENT CALCULATIONS
BAXTER, MN
 Monday, December 11, 2023

COMMERCIAL OTHER IMPROVEMENTS

ITEM NO.	SPEE NO.	ITEM DESCRIPTION	UNIT	UNIT PRICE	GARRISON ROAD									
					STORM SEWER		SANITARY SEWER		WATER		TRAIL		TOTAL PROJECT	
					ESTIMATED QUANTITY	TOTAL COST	ESTIMATED QUANTITY	TOTAL COST	ESTIMATED QUANTITY	TOTAL COST	ESTIMATED QUANTITY	TOTAL COST	ESTIMATED QUANTITY	TOTAL COST
1	2021.501	MOBILIZATION	LUMP SUM	\$10,000.00	0.26	\$2,600.00	0.09	\$900.00			0.65	\$6,500.00	1	\$10,000.00
2	2104.502	REMOVE CASTING (SANITARY)	EACH	\$235.00			3	\$705.00					3	\$705.00
3	2104.502	REMOVE CASTING (STORM)	EACH	\$235.00	4	\$940.00							4	\$940.00
4	2104.502	REMOVE SIGN	EACH	\$40.00										
5	2104.502	REMOVE MAIL BOX SUPPORT	EACH	\$45.00										
6	2104.503	SAWING CONCRETE PAVEMENT (FULL DEPTH)	LN FT	\$7.50							22	\$165.00	22	\$165.00
7	2104.503	SAWING BITUMINOUS PAVEMENT (FULL DEPTH)	LN FT	\$4.00			84	\$336.00					84	\$336.00
8	2104.503	REMOVE SEWER PIPE (SANITARY)	LN FT	\$15.00										
9	2104.503	REMOVE CURB & GUTTER	LN FT	\$4.00	80	\$320.00							80	\$320.00
10	2104.504	REMOVE CONCRETE PAVEMENT	SQ YD	\$10.00							47	\$465.00	46.55	\$465.00
11	2104.504	REMOVE BITUMINOUS PAVEMENT	SQ YD	\$5.00			16	\$98.00			504	\$3,024.00	520.333333	\$3,122.00
12	2105.604	DITCH EXCAVATION	SQ YD	\$10.00										
13	2112.603	SHOULDER PREPARATION	LN FT	\$0.50										
14	2112.619	RECLAIMED AGGREGATE BASE PREPARATION	ROAD STA	\$300.00										
15	2105.607	EXCAVATION SPECIAL	CU YD	\$16.00										
16	2105.607	COMMON EXCAVATION	CU YD	\$15.00										
17	2123.610	COMMON LABORERS	HR	\$100.00	2	\$200.00	2	\$200.00			2	\$200.00	6	\$600.00
18	2123.610	SKID LOADER	HR	\$145.00	2	\$290.00	2	\$290.00			2	\$290.00	6	\$870.00
19	2123.610	STREET SWEEPER (WITH PICKUP BROOM AND WATER)	HR	\$200.00	2	\$400.00	2	\$400.00			2	\$400.00	6	\$1,200.00
20	2211.607	AGGREGATE BASE SPECIAL (CV)	CU YD	\$35.00							12	\$420.00	12	\$420.00
21	2215.504	FULL DEPTH RECLAMATION	SQ YD	\$2.00										
22	2222.504	MILL BITUMINOUS SURFACE (2.0")	SQ YD	\$2.00										
23	2301.604	CONCRETE PAVEMENT 8"	SQ YD	\$60.00										
24	2302.216	SPOT FILL DEPTH REPAIR	SQ FT	\$2.50										
25	2302.604	BITUMINOUS DRIVEWAY REPLACEMENT	SQ YD	\$45.00										
26	2360.509	TYPE SP 9.5 WEARING COURSE MIX (3.C)	TON	\$95.00			1	\$137.66					7.335625	\$696.88
27	2360.509	TYPE SP 12.5 NON-WEARING COURSE MIX (3.B)	TON	\$85.00	8	\$680.00	2	\$164.22					9.78075	\$831.36
28	2503.503	12" RC PIPE SEWER DESIGN 3006 CLASS V	LN FT	\$75.00										
29	2503.601	TRACER WIRE SYSTEM (SANITARY)	LUMP SUM	\$500.00										
30	2503.602	CONNECT TO EXISTING STORM SEWER	EACH	\$1,300.00										
31	2503.602	CONNECT TO EXISTING SANITARY SEWER	EACH	\$1,850.00										
32	2503.603	8" PIPE SEWER	LN FT	\$85.00										
33	2504.602	HYDRANT	EACH	\$6,500.00										
34	2504.602	HYDRANT RESTORATION	EACH	\$2,500.00										
35	2504.602	8" GATE VALVE REPLACEMENT	EACH	\$1,500.00										
36	2504.602	WATERMAN EXPLORATORY EXCAVATION	HR	\$700.00										
37	2504.602	ADJUST VALVE BOX	EACH	\$325.00					4	\$1,300.00			4	\$1,300.00
38	2504.602	VALVE BOX MD SECTION	EACH	\$250.00					4	\$1,000.00			4	\$1,000.00
39	2504.602	WATERMAN TEE	EACH	\$6,500.00										
40	2506.502	CASTING ASSEMBLY (SANITARY 700.7)	EACH	\$1,200.00			3	\$3,600.00					3	\$3,600.00
41	2506.502	CASTING ASSEMBLY (STORM 700.7)	EACH	\$1,200.00										
42	2506.502	CASTING ASSEMBLY (STORM NEENAH R-3210-EVSP)	EACH	\$1,560.00	4	\$6,240.00							4	\$6,240.00
43	2506.502	CASTING ASSEMBLY (STORM NEENAH R-3210-EVSP)	EACH	\$1,300.00										
44	2506.503	CONSTRUCT DRAINAGE STRUCTURE 48-4020	LN FT	\$1,000.00										
45	2506.503	CONSTRUCT DRAINAGE STRUCTURE DESIGN H	LN FT	\$600.00										
46	2506.602	RECONSTRUCT DRAINAGE STRUCTURE	EACH	\$2,000.00										
47	2506.602	GROUT CATCH BASIN OR MANHOLE	CU YD	\$600.00	0.125	\$75.00	0.125	\$75.00					0.25	\$150.00
48	2506.603	CONSTRUCT OUTSIDE DROP	LN FT	\$1,400.00										
49	2506.603	SANITARY MANHOLE EXCESS DEPTH	LN FT	\$500.00										
50	2521.518	8" CONCRETE WALK	SQ FT	\$17.50							778	\$13,615.00	778	\$13,615.00
51	2521.518	3" BITUMINOUS WALK	SQ FT	\$3.50							4,329	\$15,151.50	4329	\$15,151.50
52	2531.503	CONCRETE CURB & GUTTER DESIGN 8624	LN FT	\$24.00	80	\$1,920.00							80	\$1,920.00
53	2531.504	8" CONCRETE DRIVEWAY PAVEMENT	SQ YD	\$75.00										
54	2531.604	8" CONCRETE VALLEY GUTTER	SQ YD	\$97.50										
55	2531.618	TRUNCATED CONES	SQ FT	\$65.00							49	\$3,185.00	49	\$3,185.00
56	2540.602	MAIL BOX SUPPORT	EACH	\$125.00										
57	2563.601	TRAFFIC CONTROL	LUMP SUM	\$3,000.00	0.26	\$780.00	0.09	\$270.00			0.65	\$1,950.00	1	\$3,000.00
58	2564.518	SIGN PANELS TYPE C	SQ FT	\$60.00										
59	2573.502	STORM DRAIN INLET PROTECTION	EACH	\$165.00										
60	2573.503	SEDIMENT CONTROL LOG TYPE WOOD FIBER	LN FT	\$5.00										
61	2573.503	SILT FENCE TYPE MS	LN FT	\$4.00										
62	2573.501	STABILIZED CONSTRUCTION EXIT	EACH	\$1,200.00										
63	2574.507	SCREENED TOPSOIL BORROW	CU YD	\$45.00	88	\$3,960.00					88	\$3,960.00	176	\$7,920.00
64	2574.508	FERTILIZER TYPE 3 (10-10-20) (SEEDING)	POUND	\$1.75	5	\$8.40							4.8	\$8.40
65	2574.508	FERTILIZER TYPE 3 (22-5-10) (SOD)	POUND	\$1.75										
66	2575.504	SOD TYPE LAWN	SQ YD	\$17.00										
67	2575.508	SEED MIXTURE 22-111 (TEMPORARY SEEDING)	POUND	\$5.50							10	\$55.00	10	\$55.00
68	2575.508	SEED MIXTURE 25-151	POUND	\$7.00							10	\$70.00	10	\$70.00
69	2575.508	HYDRAULIC REINFORCED FIBER MATRIX	POUND	\$3.50							168	\$588.00	168	\$588.00
70	2575.523	WATER	M GAL	\$45.00							10	\$450.00	10	\$450.00
71	2575.605	SEEDING	ACRE	\$600.00							0.08	\$48.00	0.08	\$48.00
72	2582.503	4" SOLID LINE PAINT	LN FT	\$0.85										
73	2582.503	4" BROKEN LINE PAINT	LN FT	\$0.85										
74	2582.503	8" SOLID LINE PAINT	LN FT	\$0.85										
75	2582.503	4" DOUBLE SOLID LINE PAINT	LN FT	\$0.85										

ESTIMATED CONSTRUCTION COST:	\$3,940,105.78	24%	\$18,919.77	9%	\$7,175.88	3%	\$2,300.00	64%	\$50,537.00	100%	\$78,932.64
CONTINGENCIES (15%):	\$591,015.87		\$2,837.67		\$1,076.38		\$345.00		\$7,680.55		\$11,839.90
SUBTOTAL:	\$4,531,121.65		\$21,757.73		\$8,252.26		\$2,645.00		\$58,117.55	2.00%	\$90,772.54
ENGINEERING, LEGAL, FINANCE, ADMIN AND OTHER COSTS (25%):	\$1,132,780.41		\$5,439.43		\$2,063.06		\$661.25		\$14,529.39		\$22,693.13
ESTIMATED TOTAL PROJECT COST:	\$5,663,902.06		\$27,197.17		\$10,315.32		\$3,306.25		\$72,646.94		\$113,465.67

**2024 MILL & OVERLAY AND FULL DEPTH RECLAMATION IMPROVEMENTS PROJECT
ENGINEER'S ESTIMATE AND ASSESSMENT CALCULATIONS
BAXTER, MN
Monday, December 11, 2023**

ITEM NO.	SPEC NO.	ITEM DESCRIPTION	UNIT	UNIT PRICE
1	2021.501	MOBILIZATION	LUMP SUM	\$10,000.00
2	2104.502	REMOVE CASTING (SANITARY)	EACH	\$235.00
3	2104.502	REMOVE CASTING (STORM)	EACH	\$235.00
4	2104.502	REMOVE SIGN	EACH	\$40.00
5	2104.502	REMOVE MAIL BOX SUPPORT	EACH	\$45.00
6	2104.503	SAWING CONCRETE PAVEMENT (FULL DEPTH)	LIN FT	\$7.50
7	2104.503	SAWING BITUMINOUS PAVEMENT (FULL DEPTH)	LIN FT	\$4.00
8	2104.503	REMOVE SEWER PIPE (SANITARY)	LIN FT	\$15.00
9	2104.503	REMOVE CURB & GUTTER	LIN FT	\$4.00
10	2104.504	REMOVE CONCRETE PAVEMENT	SQ YD	\$10.00
11	2104.504	REMOVE BITUMINOUS PAVEMENT	SQ YD	\$6.00
12	2105.604	DITCH EXCAVATION	SQ YD	\$10.00
13	2112.603	SHOULDER PREPARATION	LIN FT	\$0.50
14	2112.619	RECLAIMED AGGREGATE BASE PREPARATION	ROAD STA	\$300.00
15	2105.607	EXCAVATION SPECIAL	CU YD	\$16.00
16	2105.607	COMMON EXCAVATION	CU YD	\$15.00
17	2123.510	COMMON LABORERS	HOUR	\$100.00
18	2123.610	SKID LOADER	HOUR	\$145.00
19	2123.610	STREET SWEEPER (WITH PICKUP BROOM AND WATER)	HOUR	\$200.00
20	2211.607	AGGREGATE BASE SPECICAL (CV)	CU YD	\$35.00
21	2215.504	FULL DEPTH RECLAMATION	SQ YD	\$2.00
22	2232.504	MILL BITUMINOUS SURFACE (2.0")	SQ YD	\$2.00
23	2301.504	CONCRETE PAVEMENT 8"	SQ YD	\$90.00
24	2302.518	SPOT FULL DEPTH REPAIR	SQ FT	\$2.50
25	2302.604	BITUMINOUS DRIVEWAY REPLACEMENT	SQ YD	\$45.00
26	2360.509	TYPE SP 9.5 WEARING COURSE MIX (3.C)	TON	\$95.00
27	2360.509	TYPE SP 12.5 NON-WEARING COURSE MIX (3.B)	TON	\$85.00
28	2503.503	12" RC PIPE SEWER DESIGN 3006 CLASS V	LIN FT	\$75.00
29	2503.601	TRACER WIRE SYSTEM (SANITARY)	LUMP SUM	\$500.00
30	2503.602	CONNECT TO EXISTING STORM SEWER	EACH	\$1,300.00
31	2503.602	CONNECT TO EXISTING SANITARY SEWER	EACH	\$1,850.00
32	2503.603	8" PIPE SEWER	LIN FT	\$85.00
33	2504.502	HYDRANT	EACH	\$5,500.00
34	2504.602	HYDRANT RESTORATION	EACH	\$2,500.00
35	2504.602	6" GATE VALVE REPLACEMENT	EACH	\$1,500.00
36	2504.602	WATERMAIN EXPLORATORY EXCAVATION	HOUR	\$700.00
37	2504.602	ADJUST VALVE BOX	EACH	\$325.00
38	2504.602	VALVE BOX MID SECTION	EACH	\$250.00
39	2504.602	WATERMAIN TEE	EACH	\$6,500.00
40	2506.502	CASTING ASSEMBLY (SANITARY 700-7)	EACH	\$1,200.00
41	2506.502	CASTING ASSEMBLY (STORM 700-7)	EACH	\$1,200.00
42	2506.502	CASTING ASSEMBLY (STORM NEENAH R-3250-DVSP)	EACH	\$1,550.00
43	2506.502	CASTING ASSEMBLY (STORM NEENAH R-3250-EVSP)	EACH	\$1,300.00
44	2506.503	CONSTRUCT DRAINAGE STRUCTURE 48-4020	LIN FT	\$1,000.00
45	2506.503	CONSTRUCT DRAINAGE STRUCTURE DESIGN H	LIN FT	\$500.00
46	2506.602	RECONSTRUCT DRAINAGE STRUCTURE	EACH	\$2,000.00
47	2506.602	GROUT CATCH BASIN OR MANHOLE	CU YD	\$600.00
48	2506.603	CONSTRUCT OUTSIDE DROP	LIN FT	\$1,400.00
49	2506.603	SANITARY MANHOLE EXCESS DEPTH	LIN FT	\$500.00
50	2521.518	6" CONCRETE WALK	SQ FT	\$17.50
51	2521.518	3" BITUMINOUS WALK	SQ FT	\$3.50
52	2531.503	CONCRETE CURB & GUTTER DESIGN B624	LIN FT	\$24.00
53	2531.504	6" CONCRETE DRIVEWAY PAVEMENT	SQ YD	\$75.00
54	2531.604	8" CONCRETE VALLEY GUTTER	SQ YD	\$97.50
55	2531.618	TRUNCATED DOMES	SQ FT	\$65.00
56	2540.602	MAIL BOX SUPPORT	EACH	\$125.00
57	2563.601	TRAFFIC CONTROL	LUMP SUM	\$3,000.00
58	2564.518	SIGN PANELS TYPE C	SQ FT	\$60.00
59	2573.502	STORM DRAIN INLET PROTECTION	EACH	\$165.00
60	2573.503	SEDIMENT CONTROL LOG TYPE WOOD FIBER	LIN FT	\$5.00
61	2573.503	SILT FENCE, TYPE MS	LIN FT	\$4.00
62	2573.501	STABILIZED CONSTRUCTION EXIT	EACH	\$1,200.00
63	2574.507	SCREENED TOPSOIL BORROW	CU YD	\$45.00
64	2574.508	FERTILIZER TYPE 3 (10-10-20) (SEEDING)	POUND	\$1.75
65	2574.508	FERTILIZER TYPE 3 (22-5-10) (SOD)	POUND	\$1.75
66	2575.504	SOD TYPE LAWN	SQ YD	\$17.50
67	2575.508	SEED MIXTURE 22-111 (TEMPORARY SEEDING)	POUND	\$5.50
68	2575.508	SEED MIXTURE 25-151	POUND	\$7.00
69	2575.508	HYDRAULIC REINFORCED FIBER MATRIX	POUND	\$3.50
70	2575.523	WATER	MGAL	\$45.00
71	2575.605	SEEDING	ACRE	\$600.00
72	2582.503	4" SOLID LINE PAINT	LIN FT	\$0.85
73	2582.503	4" BROKEN LINE PAINT	LIN FT	\$0.85
74	2582.503	8" SOLID LINE PAINT	LIN FT	\$0.85
75	2582.503	4" DOUBLE SOLID LINE PAINT	LIN FT	\$0.85

TOTAL	
TOTAL PROJECT	
ESTIMATED QUANTITY	TOTAL COST
25	\$246,500.00
78	\$18,330.00
49	\$11,515.00
65	\$2,600.00
72	\$3,240.00
449	\$3,370.05
4,736	\$18,945.00
35	\$625.00
11,490	\$45,961.80
2,251	\$22,605.78
6,886	\$41,315.47
1,500	\$15,000.00
21,726	\$10,863.00
119	\$35,700.00
3,884	\$62,137.63
3,169	\$47,537.78
318	\$31,800.00
318	\$46,110.00
318	\$63,600.00
545	\$19,075.00
38,938	\$77,876.40
36,341	\$72,681.00
677	\$60,897.00
6,722	\$16,805.02
2,921	\$131,442.75
9,750	\$926,258.99
5,897	\$501,272.43
12	\$900.00
1	\$500.00
1	\$1,300.00
3	\$5,550.00
35	\$2,975.00
5	\$27,500.00
5	\$12,500.00
5	\$7,500.00
52	\$36,400.00
70	\$22,750.00
41	\$10,250.00
10	\$65,000.00
79	\$94,800.00
1	\$1,200.00
45	\$69,750.00
2	\$2,600.00
8	\$8,000.00
5	\$2,400.00
43	\$86,000.00
4	\$2,175.00
3	\$4,200.00
2	\$1,000.00
3,036	\$53,130.00
29,079	\$101,776.50
11,608	\$278,600.40
640	\$48,000.00
749	\$73,040.50
284	\$18,460.00
72	\$9,000.00
25	\$73,950.00
359	\$21,525.00
42	\$6,930.00
3,572	\$17,860.00
2,772	\$11,088.00
14	\$16,800.00
1,592	\$71,640.00
125	\$218.23
2,441	\$4,271.75
4,269	\$74,701.67
220	\$1,210.00
450	\$3,148.60
6,296	\$22,036.00
260	\$11,700.00
3	\$1,578.00
859	\$730.15
15,512	\$13,185.20
782	\$664.70
6,760	\$5,746.00
	\$3,940,105.78
	\$591,015.87
99%	\$4,531,121.65
	\$1,132,780.41
	\$5,663,902.06

ESTIMATED CONSTRUCTION COST: \$3,940,105.78
CONTINGENCIES (15%): \$591,015.87
SUBTOTAL: \$4,531,121.65
ENGINEERING, LEGAL, FINANCE, ADMIN AND OTHER COSTS (25%): \$1,132,780.41
ESTIMATED TOTAL PROJECT COST: \$5,663,902.06

Appendix D

Project Schedule

PROPOSED PROJECT SCHEDULE
2024 Mill & Over and Full Depth Reclamation Improvements Project, CPF 4424
BAXTER, MN
Wednesday, November 15, 2023

MAJOR TASKS AND MILESTONES	DATES	REMARKS	NOTES
Resolution Ordering Preparation of Feasibility Report	Tuesday, March 7, 2023	City Council Meeting	
Staff Review	July, 2023		
Preliminary Project Review	Wednesday, August 2, 2023	Utilities Commission Meeting	
Project Option Review	Tuesday, August 15, 2023	City Council Workshop	
Recommendation to Approve Feasibility Report	Wednesday, September 6, 2023	Utilities Commission Meeting	
Review Feasibility Report at Council Workshop	Tuesday, September 19, 2023	City Council Workshop	
Approve Survey to be Completed	Tuesday, October 3, 2023	City Council Meeting	
Public Information Meeting	Thursday, October 5, 2023		
Review Feasibility Report at Council Workshop	Tuesday, October 17, 2023	City Council Workshop	
Resolution Ordering Preparation of Plans	Tuesday, November 7, 2023	City Council Meeting	
Review Assessments	Tuesday, November 21, 2023	City Council Workshop	
Review Assessments	Tuesday, December 5, 2023	City Council Workshop	
Resolution Receiving Feasibility Report and Calling Improvement Hearing	Tuesday, December 19, 2023	City Council Meeting	
Mailed Notice for Improvement Hearing	Friday, December 22, 2023	One notice at least 10 days prior to hearing	
First Published Notice for Improvement Hearing	Sunday, December 24, 2023	Twice in local newspaper, one week apart, last notice must be at least three days prior to hearing.	3
Second Published Notice for Improvement Hearing	Sunday, December 31, 2023		
Improvement Hearing	Thursday, January 4, 2024		
Resolution Ordering Improvement	Tuesday, January 16, 2024	City Council Meeting	
Design and Preparation of Plans and Specifications	November 2023 - January 2024		
Review Plans and Specifications	Wednesday, February 7, 2024	Utilities Commission Meeting	
Resolution Approving Plans and Specifications and Ordering Advertisement for Bids	Tuesday, February 20, 2024	City Council Meeting	
Bidding Publication	Sunday, February 25, 2024	Publication must be made at least three weeks before last day to submit bids, at least once in official newspaper and once in trade paper or First Class city newspaper.	3,4
Bid Opening	Tuesday, March 19, 2024	By default bid remains subject to acceptance for 60 days after the Bid opening.	
Resolution Ordering Assessment Hearing	Tuesday, April 2, 2024	City Council Meeting	
Mailed Notice for Assessment Hearing	Friday, April 5, 2024	One notice at least two weeks prior to hearing	
Published Notice for Assessment Hearing	Sunday, April 7, 2024	Once in local newspaper at least two weeks prior to hearing.	3,4
Bid review with Utilities Commission	Wednesday, April 3, 2024	Utilities Commission Meeting	
Assessment Hearing	Thursday, April 25, 2024		
Resolution Adopting Assessment Rolls		City Council Meeting	
Resolution Accepting Bids		City Council Meeting	
Notice of Award	Tuesday, May 7, 2024	City Council Meeting. Contractor has 15 days to deliver signed agreement, bonds, and insurance certificates.	
End of Assessment Appeal Period	Thursday, June 6, 2024	Appeals to district court must be made within 30 days after adoption of the assessment roll.	
Pre-Construction Meeting	End of May 2024		
Public Information Meeting - Construction	June, 2024		
Begin Construction	June, 2024		
Construction Complete	Summer/Fall 2024	3 Months of Full Time Construction	

NOTES

1. City Council Meetings held on 1st and 3rd Tuesdays of each month @ 7:00 p.m.
2. Utilities Commission Meetings held on 1st Wednesday after the 1st Council Meeting of the month @ 5:30 p.m.
3. Brainerd Dispatch is currently only running legal notices on Wednesdays and Sundays. Deadline for Wednesday publication is noon on Monday and deadline for Sunday publication is noon on Tuesday.
4. The Published Notices will need to be sent to the publisher prior to Council Approval in order to stay on schedule.
5. **All dates are subject to change, this is a living document. Dates may change based on coordination with other 2024 projects.**

Appendix E

Reevaluated Roads

REEVALUATED ROADS

The following roadways were in the original proposal for this project. These roads will be reevaluated in the years noted below.

Proposed for Residential Mill & Overlay:

Cherrywood from Inglewood Drive to Excelsior Road – Reevaluate in 2025

Timberlane Drive in its entirety. – Reevaluate in 2025

Park Street in its entirety. – Reevaluate in 2025

Woodland Drive in its entirety. – Reevaluate in 2025

Art Ward Drive in its entirety. – Reevaluate in 2026

Laverne Circle in its entirety. – Reevaluate in 2026

Cottage Grove Terrace in its entirety. – Reevaluate in 2026

Baxter Lions Road (430' west of Art Ward Drive to Art Ward Drive) – Reevaluate in 2026

Excelsior Road (Cherrywood Drive to Inglewood Drive) – Reevaluate in 2025