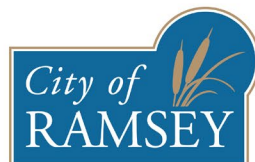


VARIOLITE STREET RECONSTRUCTION

IMPROVEMENT PROJECT #20-01

Accept Feasibility Report and
Order Plans and Specifications

April 14, 2020



VARIOLITE STREET RECONSTRUCTION

PURPOSE

- ✓ Consider adopting Resolution #20-071 accepting the Feasibility Report and ordering Plans and Specifications for Improvement Project #20-01, Variolite Street Reconstruction.

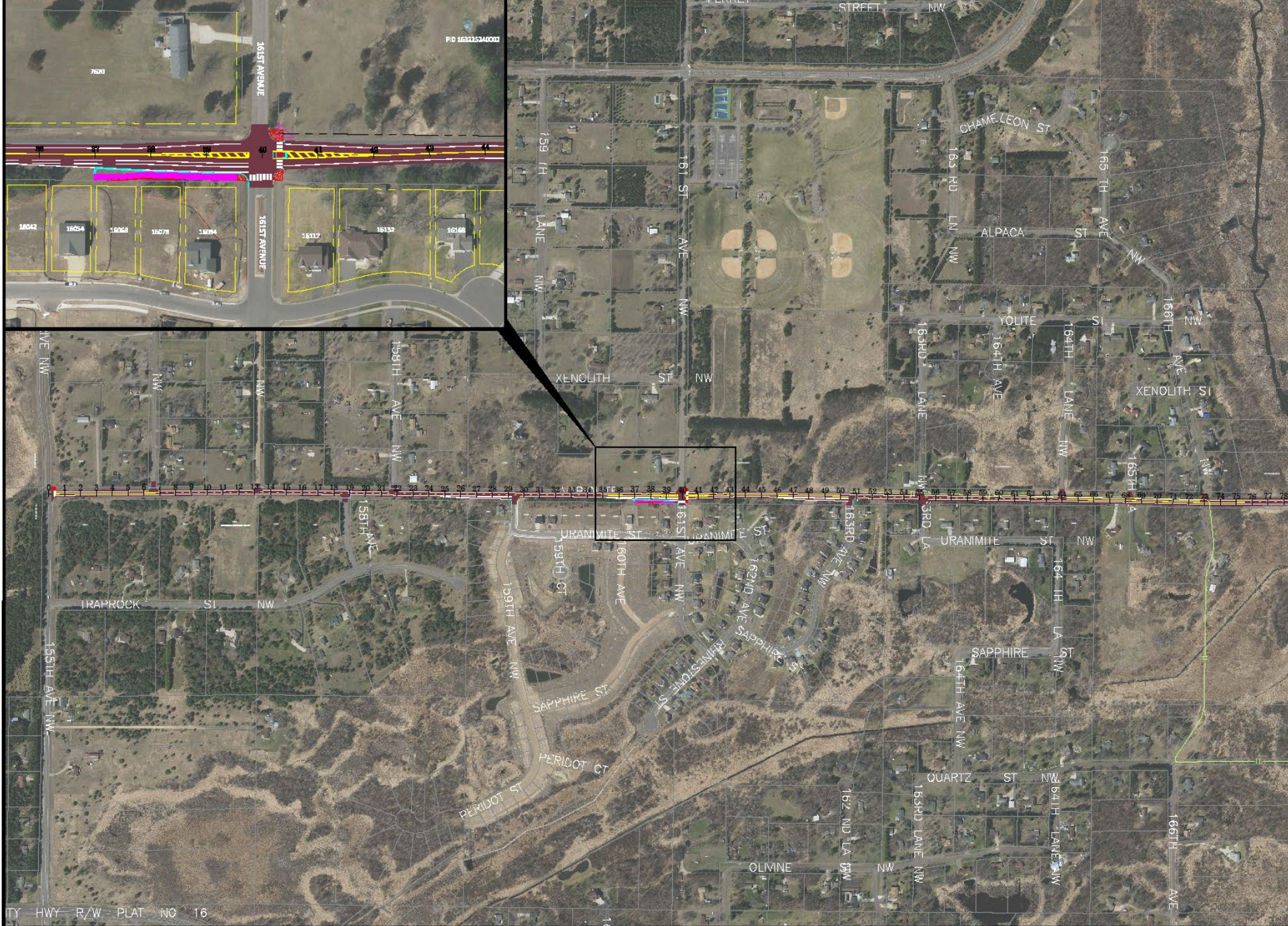
BACKGROUND

- ✓ This project proposes to reconstruct Variolite Street between Alpine Drive and 173rd Avenue.
- ✓ On September 10, 2019, City Council authorized Hakanson Anderson to complete topographic survey and Northern Technologies Inc. to complete geotechnical work required to prepare a Feasibility Report.
- ✓ On December 10, 2019, City Council ordered the attached Feasibility Report to explore the necessity, feasibility and cost-effectiveness of the proposed improvements.

VARIOLITE STREET RECONSTRUCTION

BACKGROUND (cont'd)

- ✓ In 2017, Ground Penetrating Radar data was collected on Variolite Street providing bituminous and aggregate base thicknesses.
- ✓ Variolite Street is a Municipal State Aid (MSA) street and must be reconstructed to MSA design standards, including 9-ton pavement.
- ✓ Drain tile is needed under Variolite Street in one area to properly drain groundwater.
- ✓ Pedestrian crosswalk improvements proposed at 161st Avenue.
- ✓ Traffic calming improvements proposed on south end.
- ✓ Trunk utility improvements are proposed including replacing existing 10-inch trunk sanitary sewer force main with 21-inch gravity trunk sewer, and extending 12-inch trunk watermain to 173rd Avenue, as recommended in the 2040 Comprehensive Plan.
- ✓ Public comment – Three emails were received since publishing this case and were attached for public record.



TY HWY R/W PLAT NO 16



VARIOLITE STREET (ALPINE DRIVE TO 173RD AVENUE)



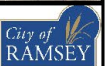
VARIOLITE STREET (ALPINE DRIVE TO 173RD AVENUE)

VARIOLITE STREET RECONSTRUCTION



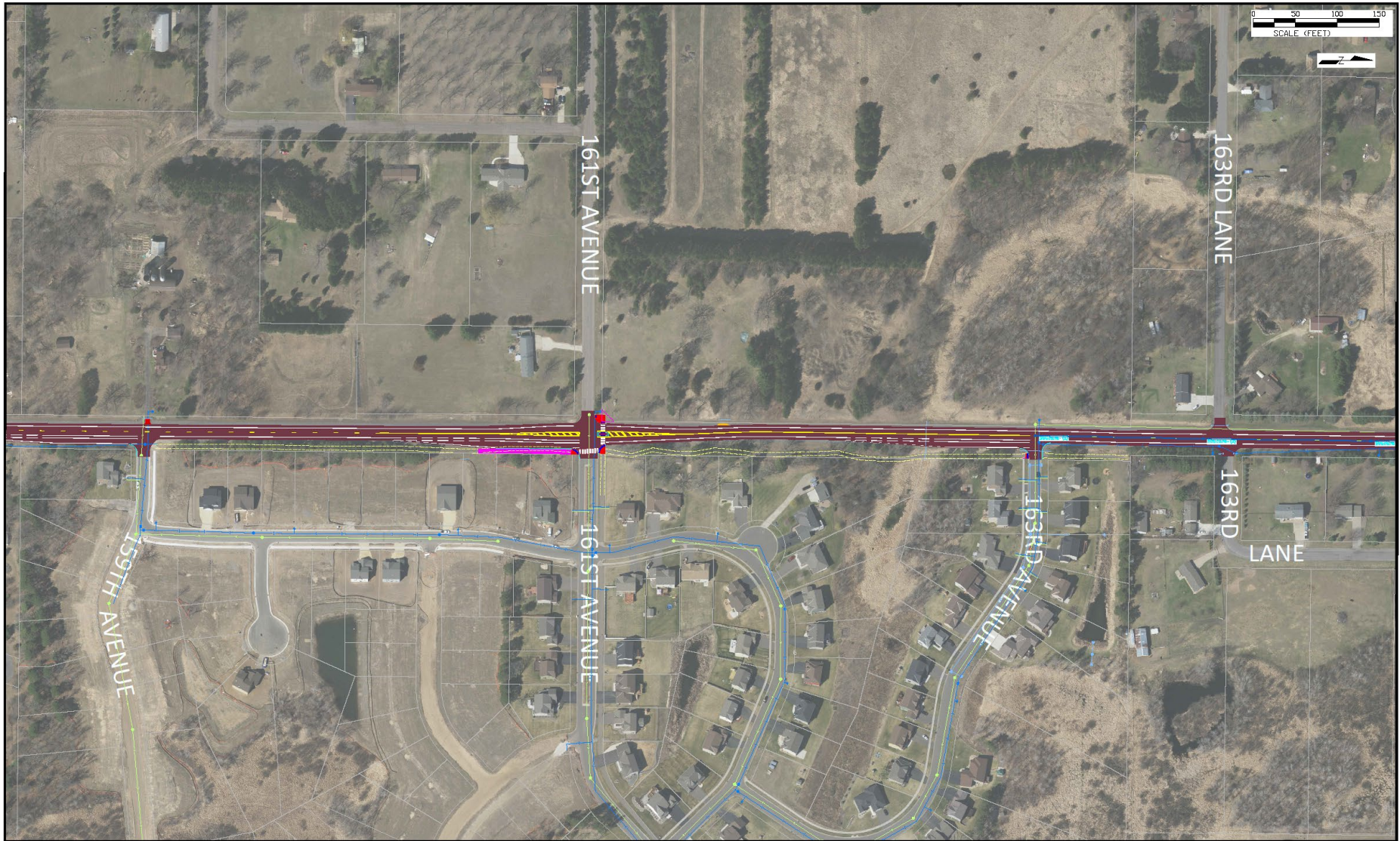
VARIOLITE STREET (ALPINE DRIVE TO 159TH LANE)

CITY OF RAMSEY
7550 SUNWOOD DRIVE
RAMSEY, MN 55303
(763) 427-1410 FAX (763) 433-9898



JAN 14, 2020 - 1:24pm
C:\Management\Public\Drawings\Projects\157\Variolite Street Recon. 20-013\Support Drawings\20-013 Sheet Map.dwg

VARIOLITE STREET RECONSTRUCTION



VARIOLITE STREET (159th Avenue to 163rd Lane)

CITY OF RAMSEY
7550 SUNWOOD DRIVE
RAMSEY, MN 55303
(763) 427-1410 FAX (763) 433-9898



JAN 14, 2020 - 1:23pm
C:\Engineering\Aerial\Drawings\Projects\16\Variolite Street Reconn - 20-010\Support Drawings\20-010 Main Map.dwg

VARIOLITE STREET RECONSTRUCTION



VARIOLITE STREET (163rd Lane to 168th Avenue)

CITY OF RAMSEY
7550 SUNWOOD DRIVE
RAMSEY, MN 55303
(763) 427-1410 FAX (763) 433-9898



JAN 14, 2020 - 1:27pm
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VARIOLITE STREET RECONSTRUCTION



Jan 14, 2020 - 1:41pm
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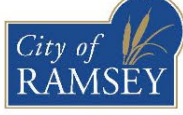
VARIOLITE STREET (168th Avenue to 173rd Avenue)

CITY OF RAMSEY
7550 SUNWOOD DRIVE
RAMSEY, MN 55303
(763) 427-1410 FAX (763) 433-9898

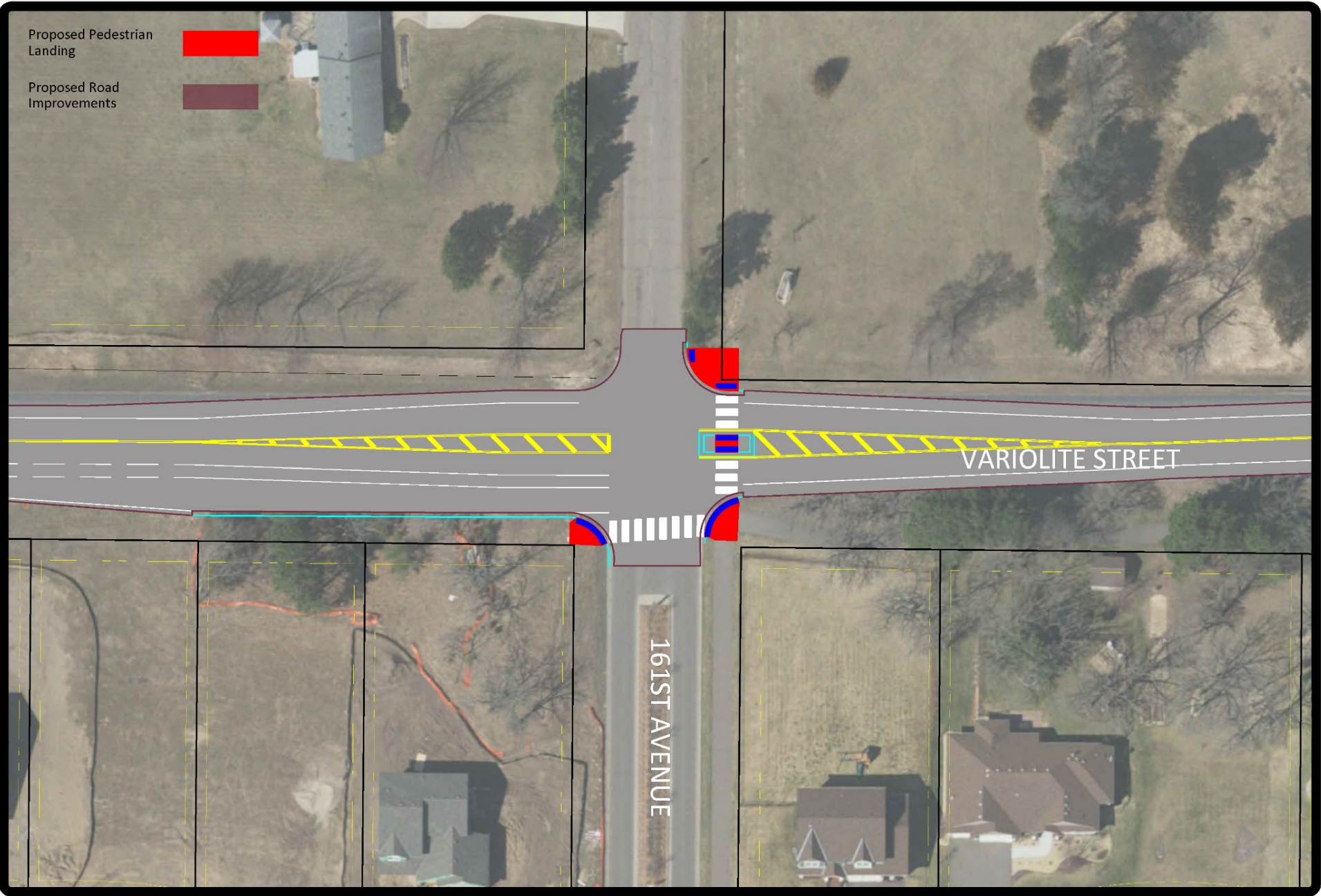




VARIOLITE STREET & 161ST AVENUE PEDESTRIAN CROSSING UPDATES



- Proposed Pedestrian Landing
- Proposed Road Improvements



VARIOLITE STREET RECONSTRUCTION

PROPOSED EASEMENT DESCRIPTION:

A permanent easement for street, drainage, and utility purposes over, under, and across that part of the Southeast Quarter of the Northwest Quarter of Section 16, Township 32, Range 25, except the West 185 feet, Anoka County, Minnesota described as follows:

Commencing at the West Quarter Corner Section 16, Township 32, Range 25; thence South 89 degrees 17 minutes 47 seconds East assumed bearing along the South line of said Northwest Quarter a distance of 2661.63 feet to the intersection with a line lying parallel with and distant 8.00 feet West of the East line of said Northwest Quarter; thence North 00 degrees 40 minutes 08 seconds East along said parallel line a distance of 60.14 feet to the point of beginning; thence continuing along said parallel line North 00 degrees 40 minutes 08 seconds East a distance of 26.25 feet; thence South 51 degrees 59 minutes 53 seconds West a distance of 42.17 feet; thence South 89 degrees 30 minutes 06 seconds East a distance of 32.92 feet to the point of beginning.

Area of Proposed Street and Utility Easement = 432 Sq.Ft. or 0.010 Acres.

EXISTING PROPERTY DESCRIPTION:

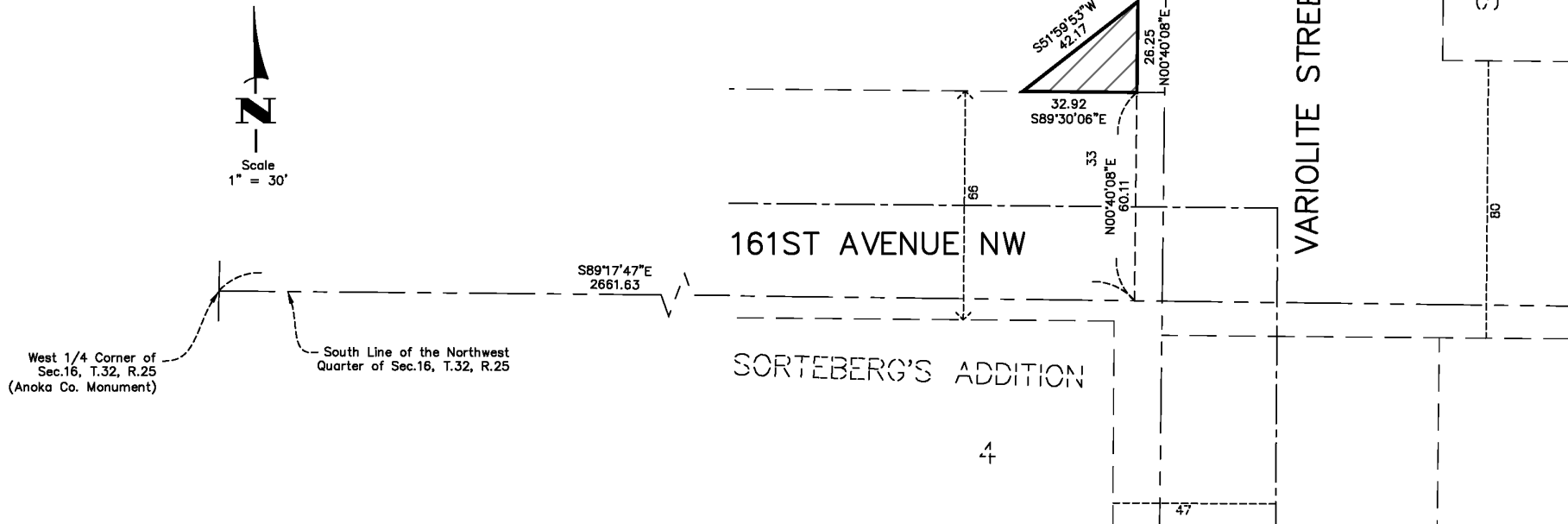
The SE¼ of the NW¼ of Section 16, Township 32, Range 25, except the West 185 feet, Anoka County, Minnesota



Denotes Proposed Street, Drainage, and Utility Easement

PROPERTY OWNER:

The Church of Saint Katharine Drexel
PID# 16-32-25-24-0002



Date	Revision

I hereby certify that this survey, plan or report was prepared by me or under my direct supervision and that I am a duly Licensed Land Surveyor under the laws of the State of Minnesota.

Bob Peterson 02/14/20

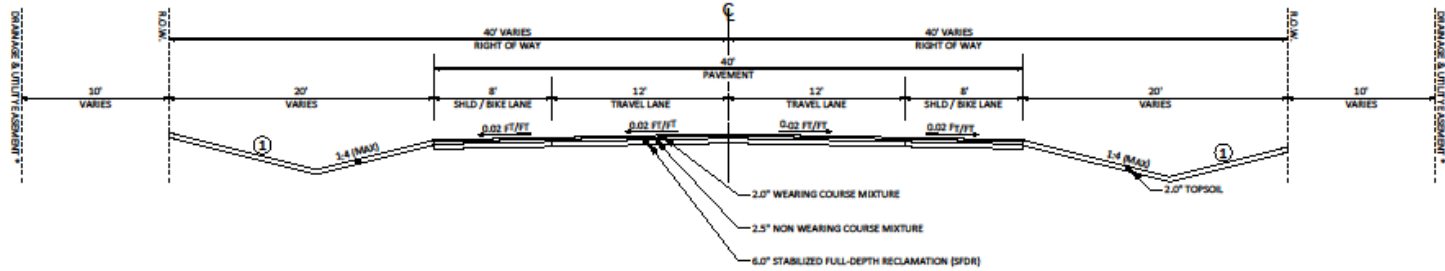
Bob Peterson, MN License No. 40130 Date

Hakanson Anderson Assoc., Inc.
Civil Engineers and Land Surveyors
3601 Thurston Ave., Anoka, Minnesota
55303 763-427-5860 FAX
763-427-0520 www.haa-inc.com

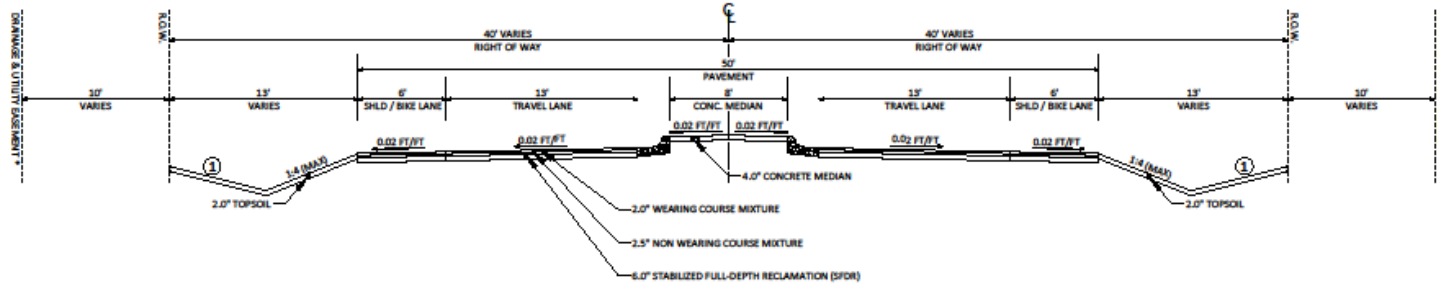
Easement Exhibit		SHEET 1 OF 1 SHEETS
for		
CITY OF RAMSEY		
DWG	02/14/20	FILE NO. RA1120

VARIOLITE STREET RECONSTRUCTION

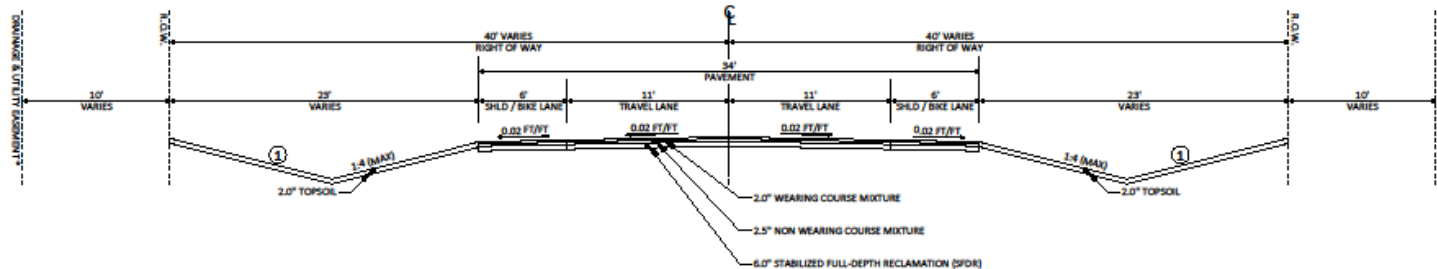
Variolite Street Typical Section Full Width: Sta. 54+60 to 118+74



Variolite Street Typical Section Concrete Median: Sta. 40+17 to 40+44



Variolite Street Typical Section Narrow Width: Sta. 0+16 to 40+17; Sta. 40+44 to 54+60



REFERENCE NOTES:

- ① GRADE TO MATCH EXISTING GROUND. ESTABLISH TURF USING A MINIMUM OF 2" TOPSOIL AND HYDROSEED WITH MNDOT SEED MIXTURE 25-151.
- * SEVERAL STRETCHES OF VARIOLITE STREET HAVE UN-PLATTED LOTS ADJACENT TO THE ROADWAY, WHICH DO NOT INCLUDE DRAINAGE & UTILITY EASEMENTS. RIGHT-OF-WAY DISTANCE FROM THE GENERAL CENTERLINE OF VARIOLITE STREET VARIES BY SUBDIVISION, THERE ARE 13 SUBDIVISIONS & 5 UN-PLATTED SEGMENTS ALONG VARIOLITE STREET.

DATE	REVISION

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.

201 RESUME
Date: 06/26/2018 Lic. No.: 57095

DESIGNED BY: JIF
DRAWN BY: JIF
CHECKED BY: BRW

DATE: 06/26/2018
SCALE: 20-01



CITY OF RAMSEY
7550 SUNWOOD DRIVE
RAMSEY, MN 55303
(763) 427-1410 FAX (763) 433-9898

TYPICAL SECTIONS
S.A.P. 199-101-012

VARIOLITE STREET RECONSTRUCTION
CITY PROJECT NO. 20-01
CITY OF RAMSEY, MINNESOTA



VARIOLITE STREET RECONSTRUCTION



VARIOLITE STREET RECONSTRUCTION



VARIOLITE STREET RECONSTRUCTION



VARIOLITE STREET RECONSTRUCTION



VARIOLITE STREET RECONSTRUCTION



VARIOLITE STREET RECONSTRUCTION



VARIOLITE STREET RECONSTRUCTION



VARIOLITE STREET RECONSTRUCTION

ESTIMATED COSTS & FUNDING

- ✓ Estimated project costs per CIP = \$2,643,600
 - ✓ Street Improvements = \$ 2,328,270 (MSA Funds)
 - ✓ Storm Sewer Improvements = \$ 315,330 (Stormwater Funds)
 - ✓ No utility costs identified.
- ✓ Estimated project costs per the Feasibility Report = \$4,335,000.
 - ✓ Street Improvements = \$ 2,820,000 (MSA Funds)
 - ✓ Storm Sewer Improvements = \$ 65,000 (Stormwater Funds)
 - ✓ Sanitary Sewer Improvements = \$ 650,000 (Sewer Funds)
 - ✓ Watermain Improvements = \$ 800,000 (Water Funds)
- ✓ No assessments are proposed. Variolite Street has only 13 direct accesses and assessments on 13 properties would not recover costs associated with assessments.

VARIOLITE STREET RECONSTRUCTION

ALTERNATIVES

- ✓ Alternative #1 - Motion to adopt Resolution #20-071 accepting the Feasibility Report and ordering Plans and Specifications for Improvement Project #20-01, Variolite Street Reconstruction.
- ✓ Alternative #2 - Motion to deny adoption of Resolution #20-071 at this time.
- ✓ A Roll Call vote is required.

RECOMMENDATIONS

- ✓ Staff recommends alternative #1.
- ✓ The Feasibility Report finds that this project is necessary, feasible, and cost-effective from an engineering standpoint, and would best be constructed as a stand-alone project.

VARIOLITE STREET RECONSTRUCTION

RECOMMENDATIONS (cont'd)

The following Staff recommendations are presented for Council consideration and concurrence:

- ✓ Staff recommends reconstructing the bituminous pavement using the Stabilized Full Depth Reclamation method in compliance with MSA design guidelines using 6-inches stabilized full depth reclamation, 2-inches new bituminous base course, and 2-inches new bituminous wear course.
- ✓ Staff recommends installing a concrete pedestrian refuge island in Variolite Street north of 161st Avenue, with advanced pedestrian crossing signs, and ADA compliant pedestrian landings.
- ✓ Staff recommends reducing the width of Variolite Street from 40-feet to 34-feet and posting a 40 mph speed limit between Alpine Drive and 163rd Lane to promote traffic calming.
- ✓ Staff recommends replacing the existing 10-inch force main trunk sanitary sewer with 21-inch gravity trunk sanitary sewer between 163rd Avenue and 166th Avenue, and extending 12-inch trunk watermain from 166th Avenue to 173rd Avenue as recommended in the 2040 Comprehensive Plan.

