

Supplement to Conditional Use Permit Application Xcel Energy's 69kV Transmission Line 0734 Rebuild Project

1) Project Description

Xcel Energy is committed to delivering clean, reliable and affordable energy for our customers. As part of our commitment to delivering reliable service, we plan to rebuild an existing 69-kiloVolt, 7.5-mile-long transmission line between the Deephaven and Westgate substations in Hennepin County. Xcel Energy is investing \$5.1 million to rebuild the transmission line, which will improve electric service reliability for the residents and businesses of Minnetonka and surrounding areas. Enclosed as *Exhibit A* is a Project Fact sheet containing additional project information. Project Route Maps depicting the proposed location of the project is enclosed as *Exhibit B*.

2) Site Plan

Engineered plan and profile drawings detailing planned replacement pole locations and pole heights are enclosed as *Exhibit C*.

3) Pole Height

City of Minnetonka Ordinances state that utility poles may not exceed 80 feet in height, except when needed to cross a major roadway such as a freeway. Enclosed as *Exhibit D* is a list of all poles and their height above grade. Poles exceeding 80 feet in height are necessary to achieve National Electrical Safety Code (NESC) clearance requirements. Therefore, Xcel Energy is requesting a variance to permit the installation of utility poles greater than 80 feet in height as listed on *Exhibit D*.

4) Vegetation Management

There will be no change to Xcel Energy's existing vegetation management practices along the transmission line corridor. Some vegetation trimming and clearing will be necessary at pole locations to provide adequate and safe workspace for crews installing the replacement poles. Property owners will be notified of any tree trimming or clearing activities occurring on their property.

5) Traffic Control

Occasional road and sidewalk closures will be necessary to safely construct the project. Xcel Energy will ensure proper traffic control procedures are implemented and detours are available.

There will be lane closures of no more than 1/4 mile at a time on the following streets:

1. Co Rd 101 – Structures 175-205
2. Spring Lane – Structures 206-212
3. Purgatory Park – Structures 213-222 – The park will be closed.
4. Scenic Heights Dr – Structures 226-241
5. Co Rd 62 – Structures 241-243

Xcel Energy will submit right-of-way permit applications containing final traffic control plans to the City of Minnetonka Public Works Department for review and approval prior to the start of construction.

6) Work in Wetlands

Construction matting will be used to minimize impacts to wetlands. Xcel Energy will work with the City of Minnetonka on the necessary requirements for work in the wetlands.

7) EMF

The strength of the EMF is proportional to the amount of voltage and electrical current passing through the power line and decreases as you move farther away. Because of this property, the exposure to an electromagnetic field received from a power line decreases with distance. We would not anticipate any substantial changes in the actual load passing through the conductor, but the structures are being made taller which reduces the overall exposure to the electromagnetic field.

8) Landowner Notifications

Xcel Energy has notified all property owners within 400 feet of the project by letter. Additional project notifications and construction progress letters will be mailed to property owners throughout the duration of the project.

Xcel Energy has also established a project webpage:

<https://www.transmission.xcelenergy.com/Projects/Minnesota/deephavenwestgate>

The project website will be updated throughout the duration of the project.

9) Damage Restoration

Xcel Energy civil construction crews will restore areas damage by construction throughout the duration of the project. Xcel Energy will work with each impacted property owner to ensure all property damages are adequately restored.

10) Construction Schedule (Subject to Change)

Spring 2023 – Survey, stake structure locations, geotechnical soil boring surveys

Spring/Summer 2023 – Culvert and concrete foundation installation

Summer/Fall 2023 – Transmission line and pole installation, damage restoration

Project details

- The entire length of the rebuild is approximately 7.5 miles.
- The line will be rebuilt along the existing alignment.
- There will be no change in voltage to the transmission line.
- The new structure (pole) locations will be within approximately 10ft of the existing structures.
- The new structures will be similar in height than the existing structures.
- There will be two steel structures on concrete foundations along Co Rd 101 at the intersection of the bike trail as well as at St Hwy 7. These structures will eliminate the need for guy wires.
- Laminate poles will be used in a few locations to eliminate the need for guy wires.
- All but one of the existing H-frame structures along the bike trail will be replaced with single pole structures.
- Existing single pole structures along the bike trail will be replaced with taller single pole structures.
- Bike trail between Co Rd 101 and the Deephaven Substation will be closed for 3-4 weeks.
- Customers will be notified if electric service needs to be interrupted during portions of the construction process.
- Majority of construction work will occur within existing easement rights or road right-of-way.
- Permitting process to include local permitting, MNDOT road utility permits, local road permits, railroad permits, and DNR water crossing permits.
- Xcel Energy civil construction crews will handle restoration work after line construction is complete—all damage claims will be addressed at completion of project.
- Approximate construction schedule: Start construction in the Spring/Summer 2023 and complete construction by Fall 2023.
- Generally speaking, we are trying to eliminate guy wires as much as possible. And where we do that, we will utilize steel poles where there are currently wood poles in such locations. Steel pole diameter will be similar to such wood poles.
- For additional information, please contact Chris Berglund at [REDACTED] or by email at [REDACTED]

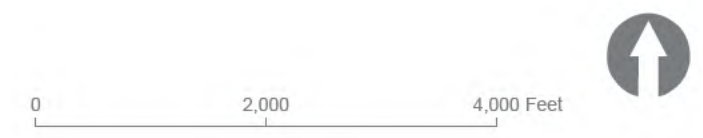
0734 Deephaven - Westgate Refurbishment

Existing Underground Utilities Structures 159-243

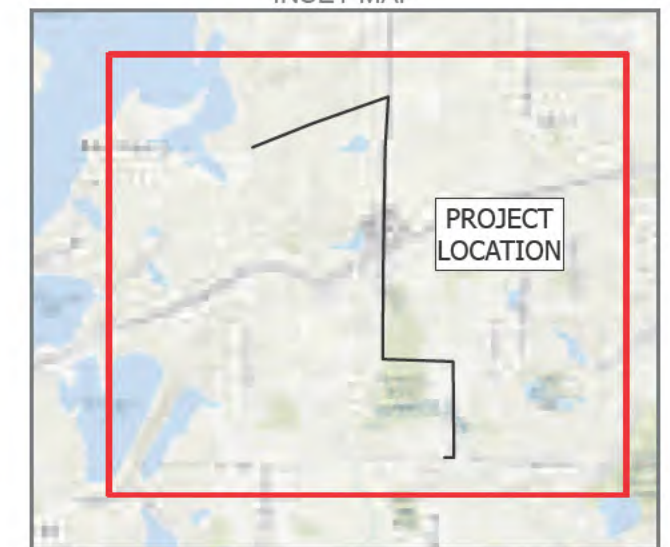


Legend

- Proposed Structure
 - Existing Structure
 - ⊂ Anchor
 - ⊗ Existing Anchor
 - Guy Wire
- UG Utilities
- Fiber
 - Gas
 - Power
 - Sewer
 - Storm
 - Water



INSET MAP



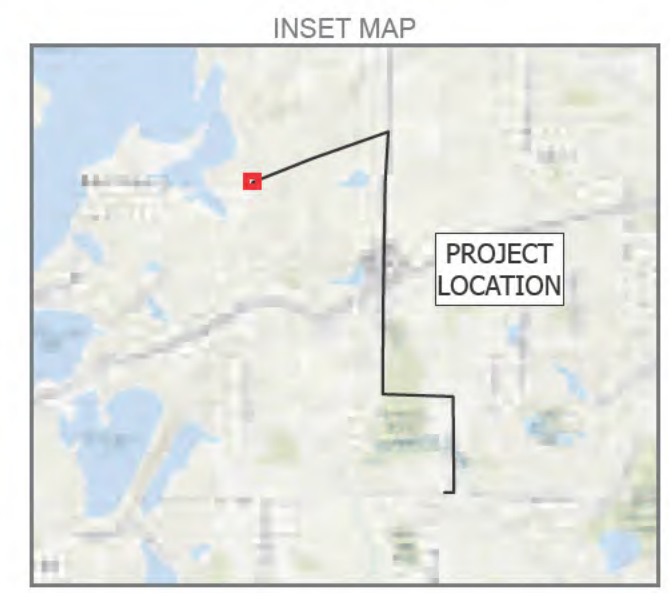
0734 Deephaven - Westgate Refurbishment

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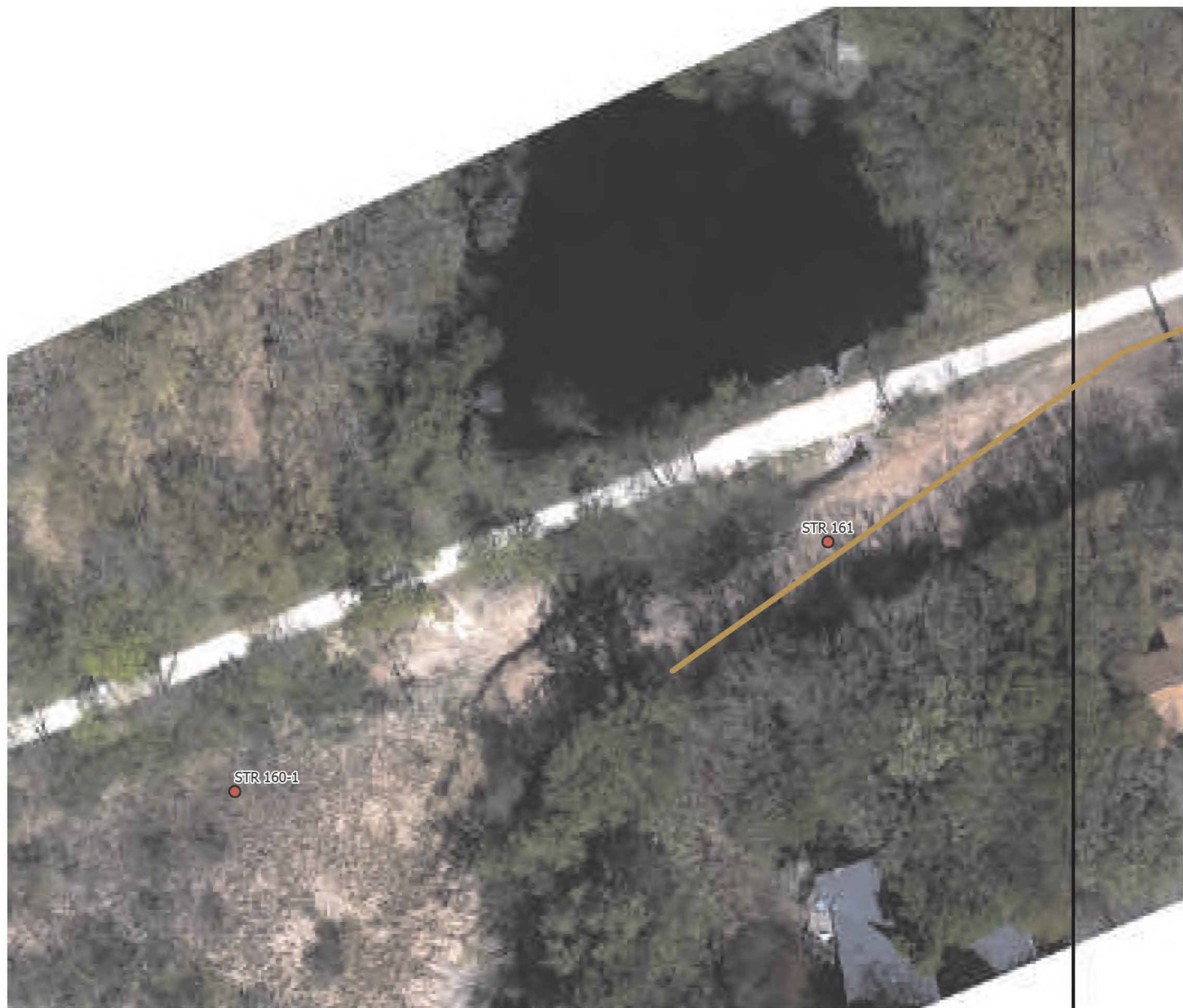
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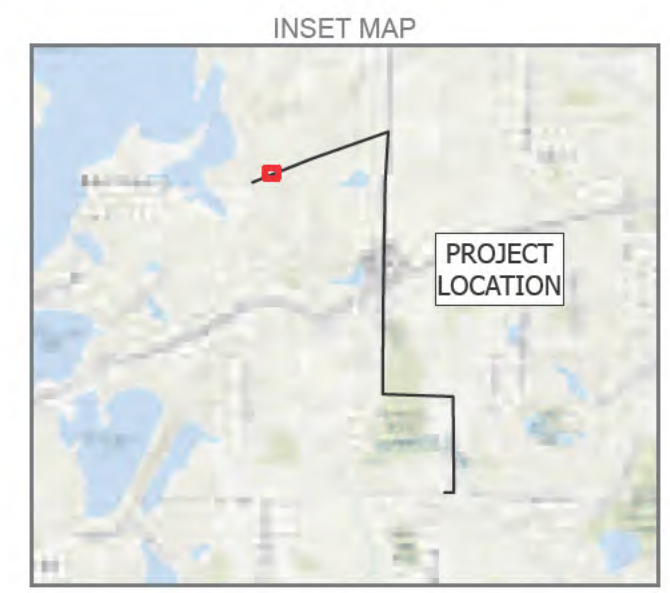
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











0734 Deephaven - Westgate Refurbishment

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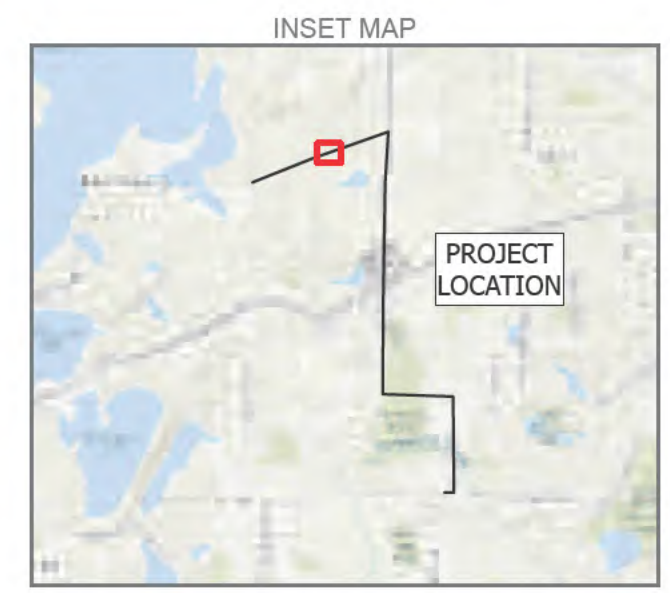
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0734 Deephaven - Westgate Refurbishment
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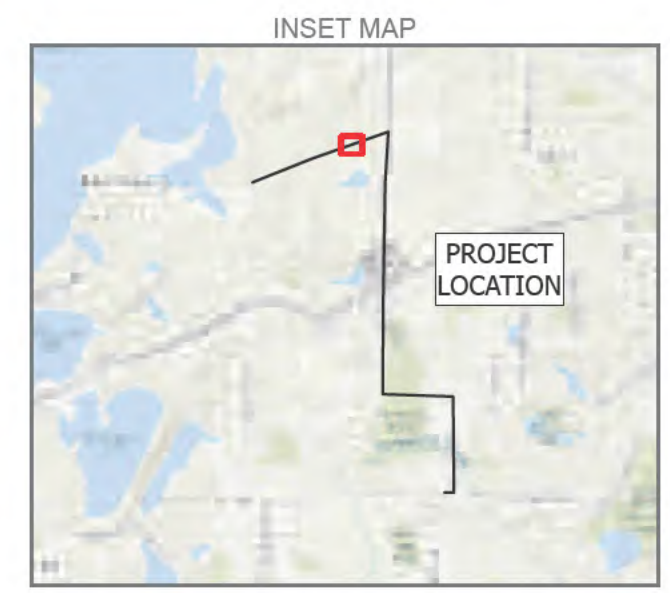
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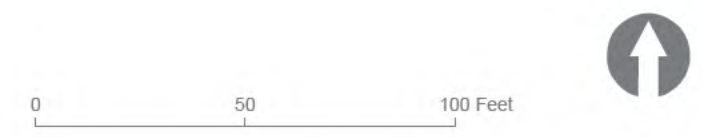
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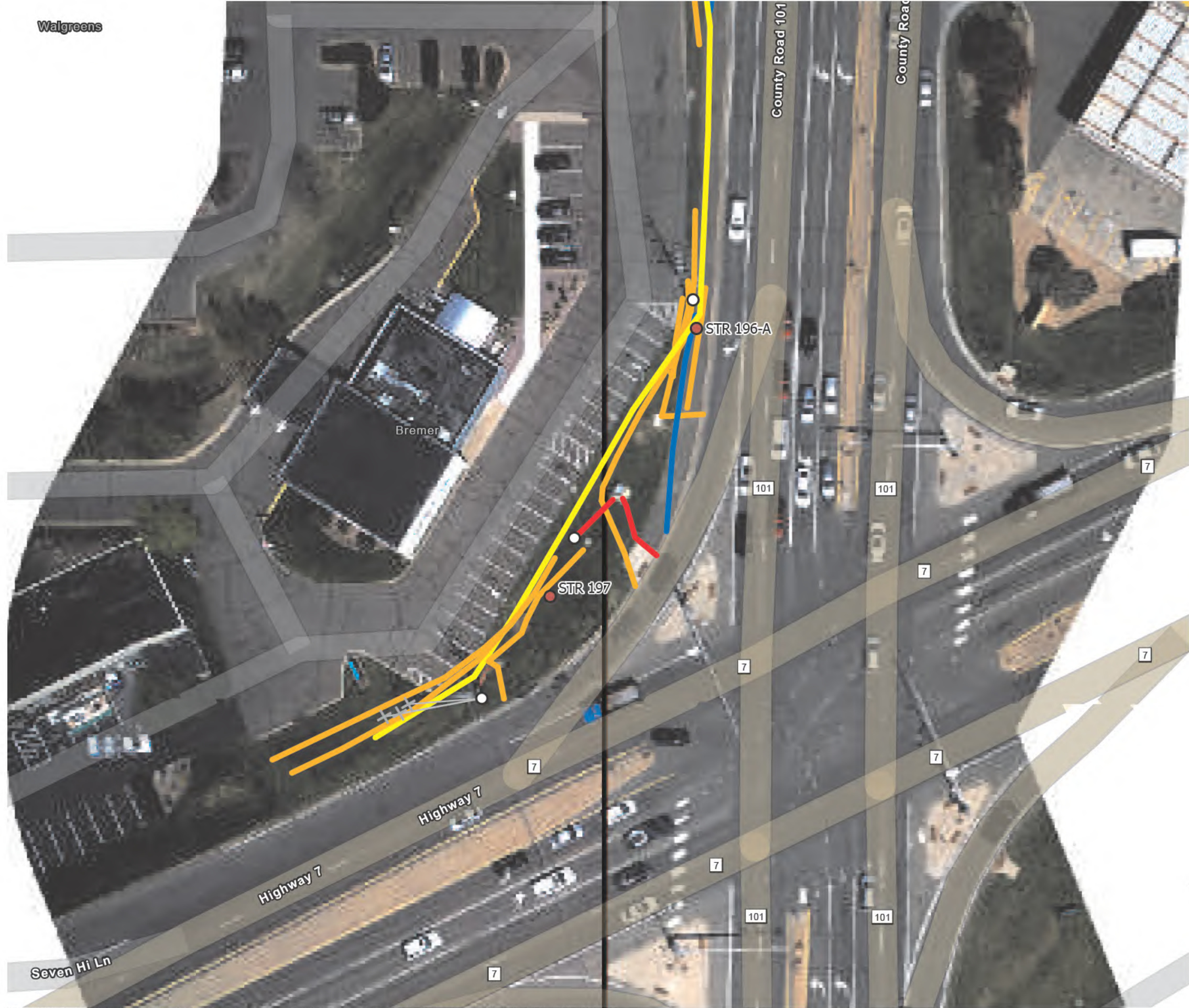
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Walgreens

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Ace Hardware



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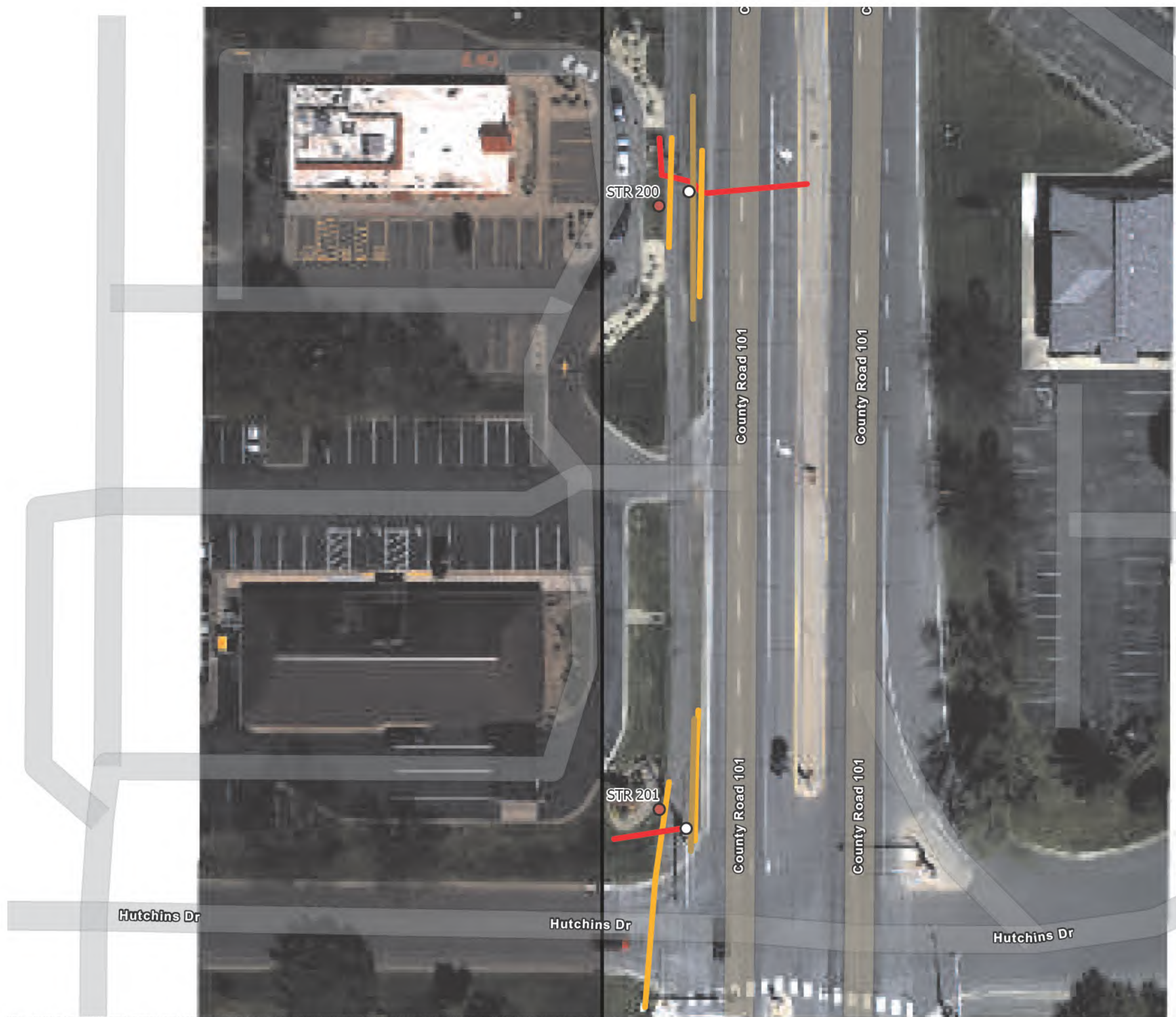
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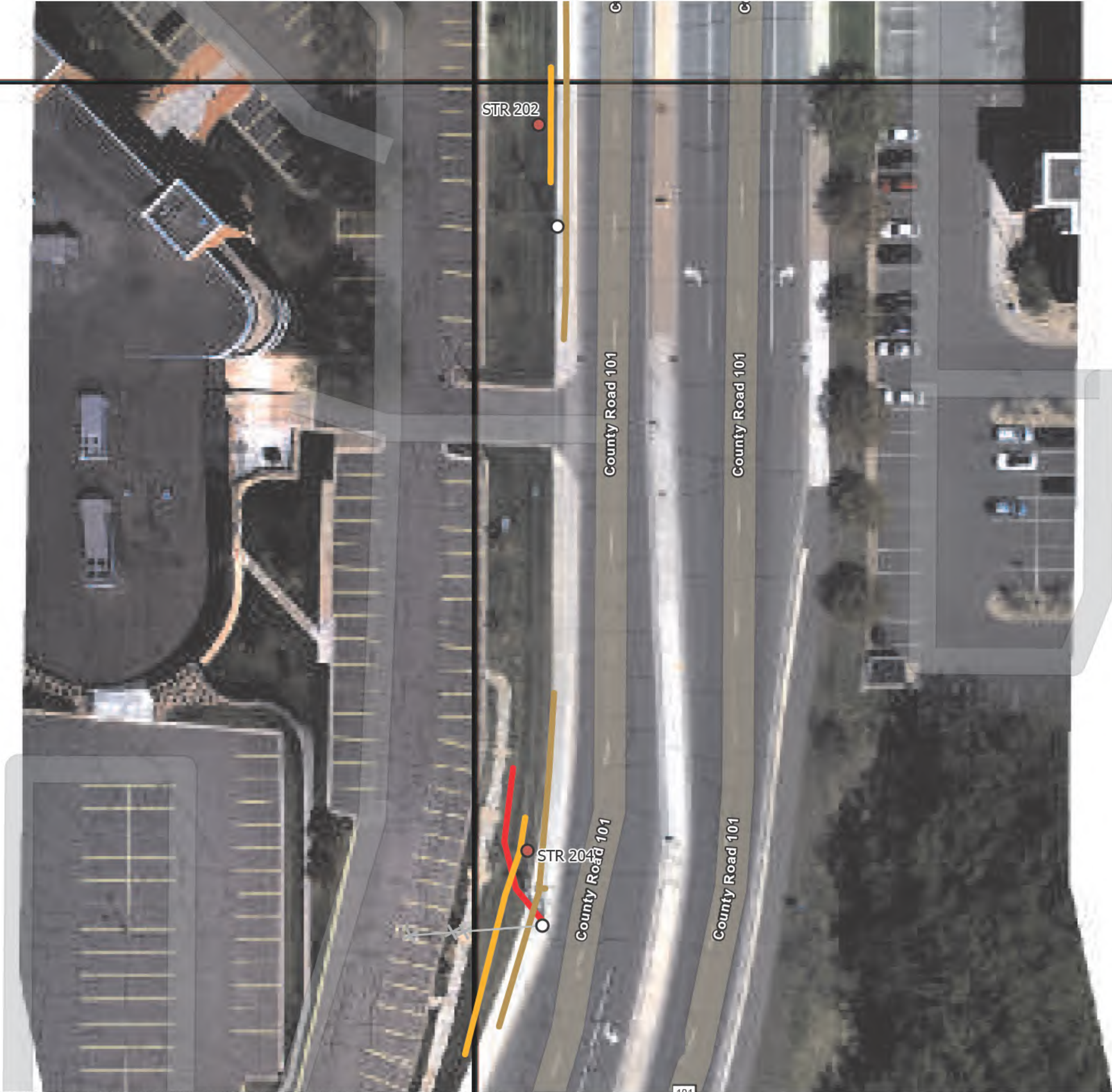


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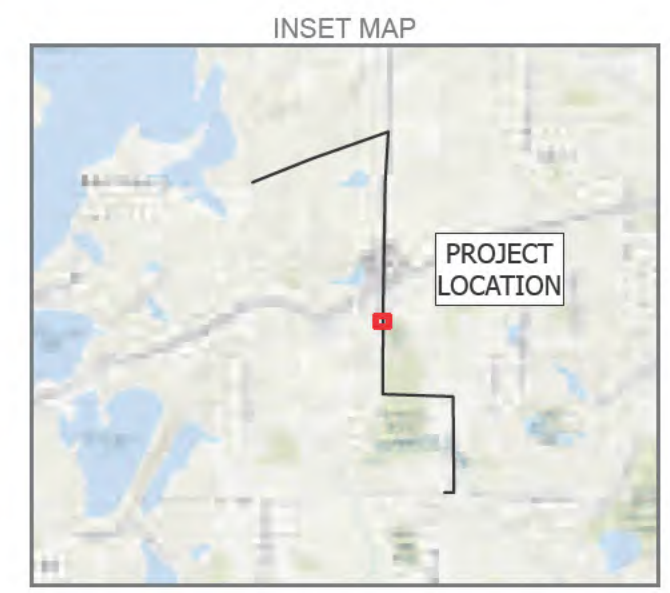
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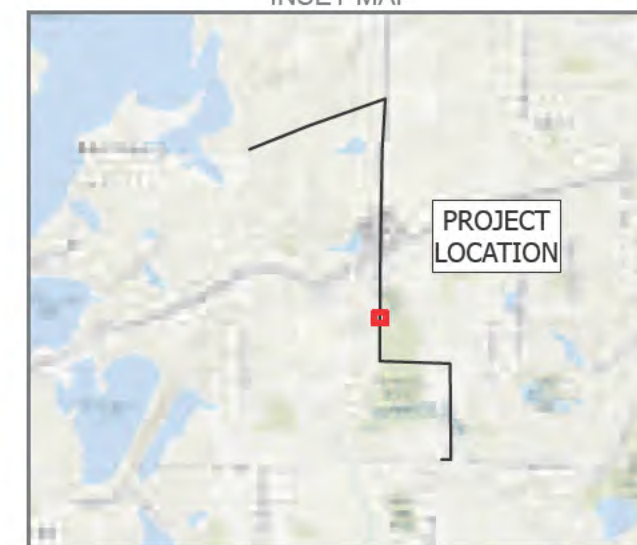
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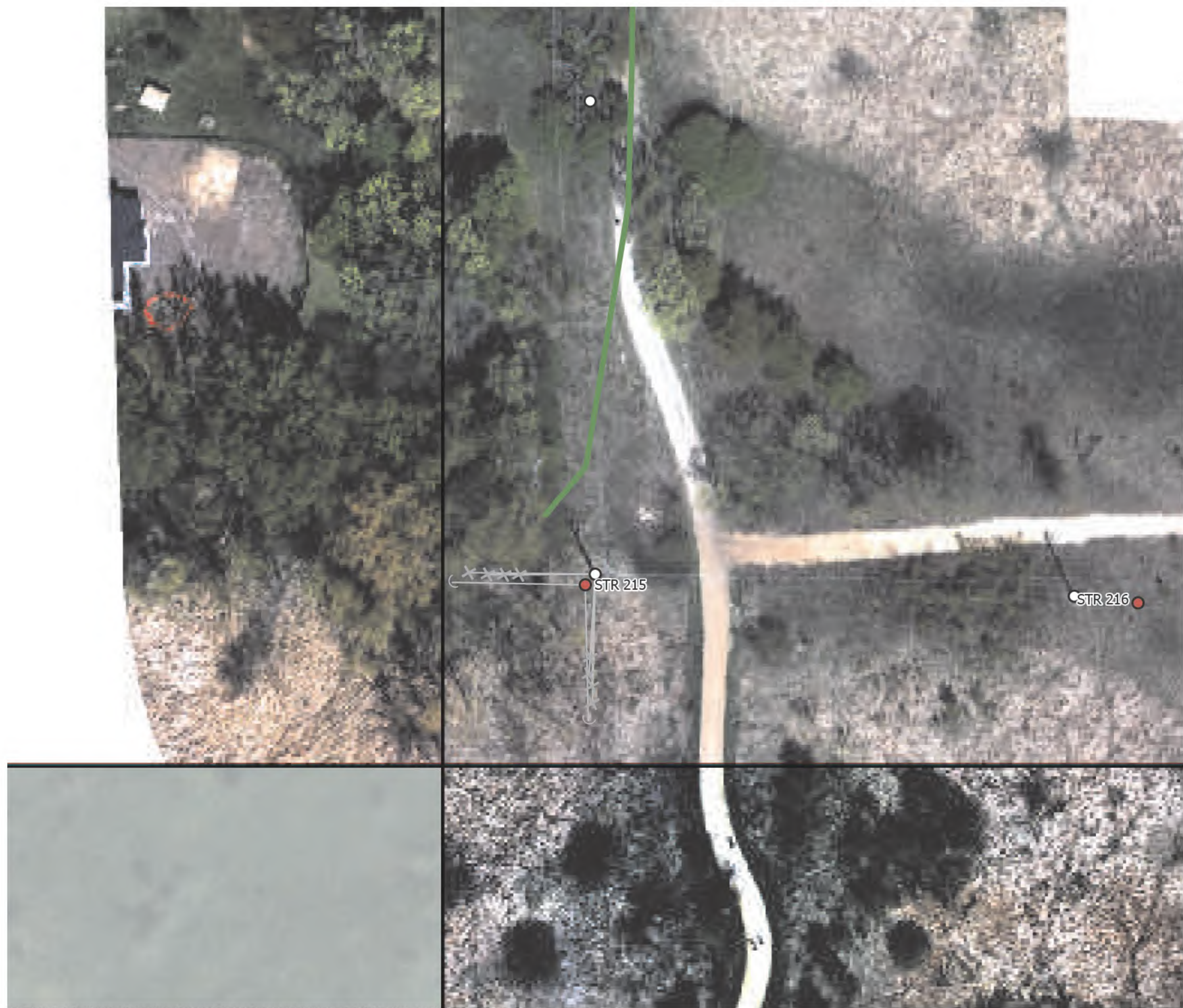


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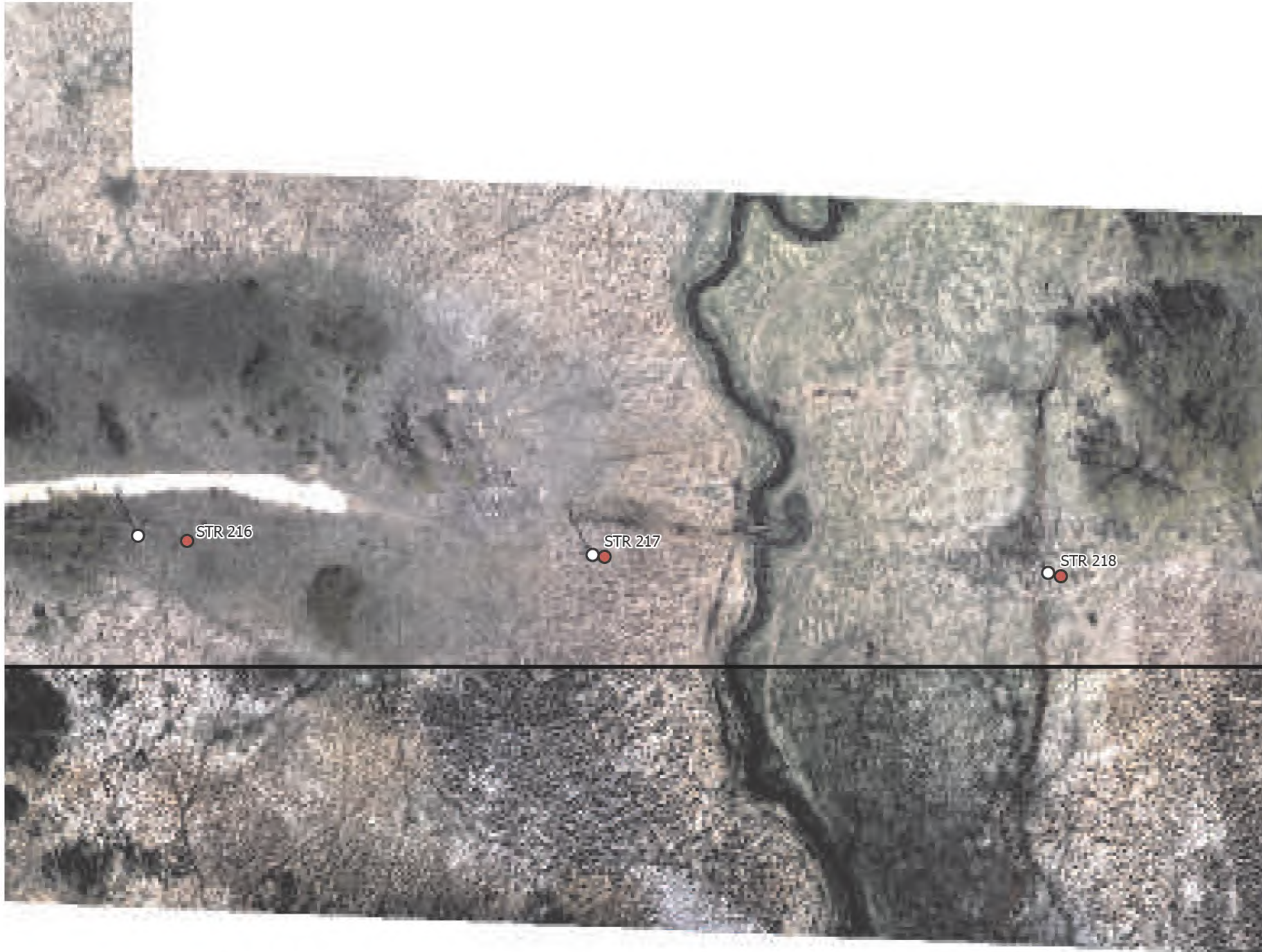
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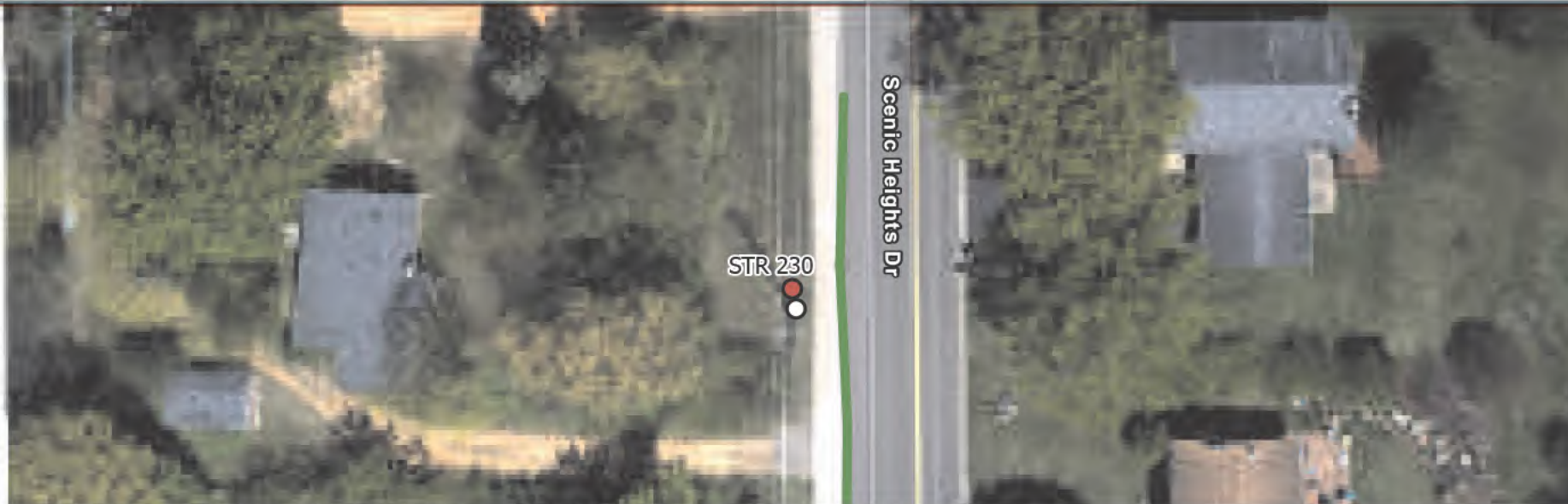
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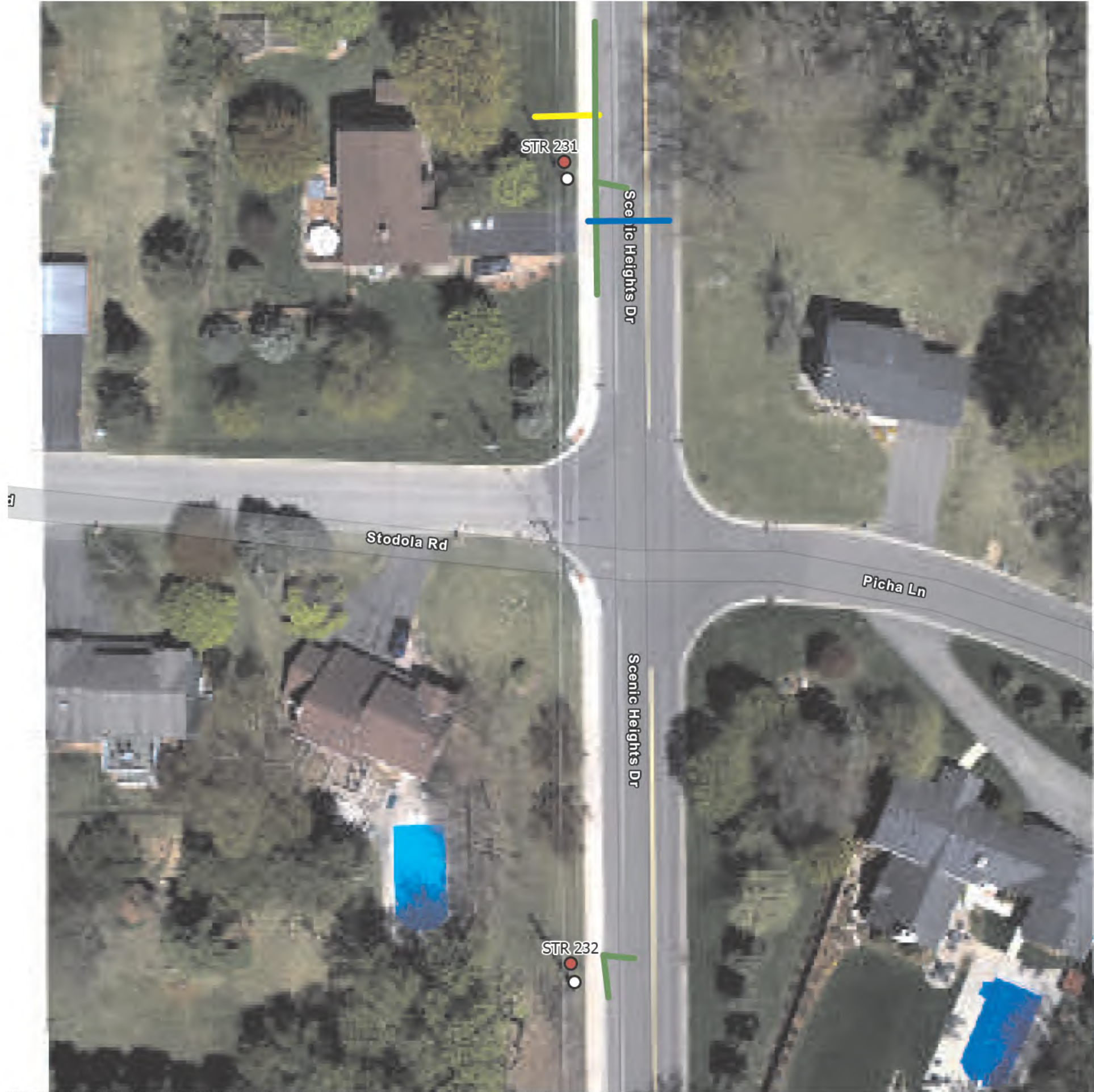


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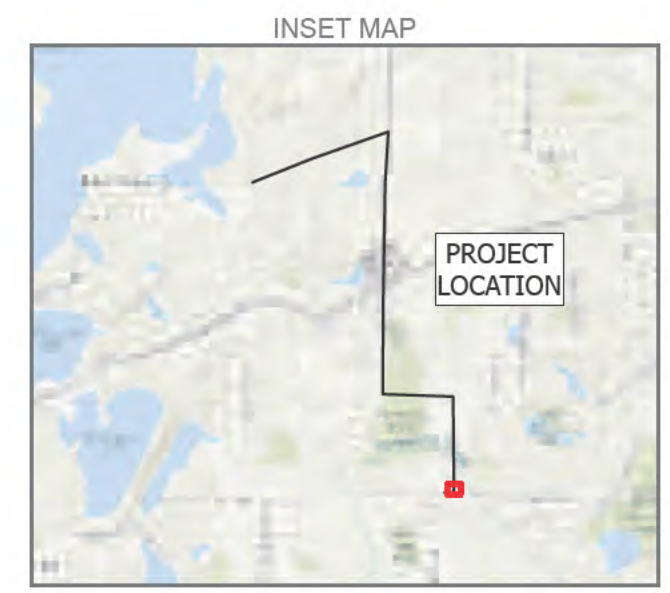
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Deephaven to Westgate Transmission Rebuild Project

Xcel Energy is rebuilding 69kV transmission Line 0734 located between the Deephaven Substation and the Westgate substation in Eden Prairie. This project will improve electric reliability in the west metro. The voltage of the line is not changing.

The transmission line was originally built in the 1950s and has reached the end of its expected life. The new structures will be similar in height to the current structures and most of the work will occur in the existing easement or road right-of-way. Many of the single-pole structures along the west side of Co Rd 101, north of State Hwy 7, are not being replaced.

Transmission rebuild work, including structure replacements and new wire installation, will begin in Summer 2023. The full project is expected to be complete by Spring 2024.

Traffic Control

There will be lane closures of no more than 1/4 mile at a time on the following streets:

1. Co Rd 101 – Structures 175-205
2. Spring Lane – Structures 206-212
3. Purgatory Park – Structures 213-222 – The park will be closed.
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Landowner Notifications

An initial notification letter was sent to all property owners within at least 400 feet of the property for which the Conditional Use Permit is being requested. Additional letters will be sent out as construction progresses. There is also a webpage for the project located at:

<https://www.transmission.xcelenergy.com/Projects/Minnesota/deephavenwestgate>

Pole Heights and Locations

Poles heights above grade are included in the application package. Poles exceeding 80 in height are necessary in order to maintaining National Electrical Safety Code (NESC) clearance requirements.

Poles along Co Rd 101, south of St Hwy 7, that are currently located in the sidewalk will be relocated out of the sidewalk.

Project Cost

The estimated cost of the project is \$5,122,000.

Vegetation Removal

Vegetation will be removed from 25 feet either side of the centerline. Vegetation has already been removed along the north side of the Lake Minnetonka LRT Regional Trail.

As-Built Survey Verification

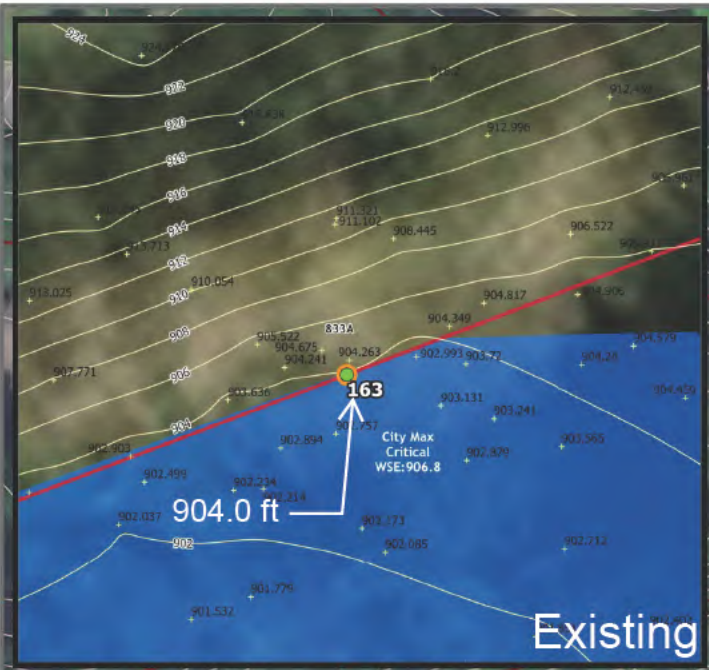
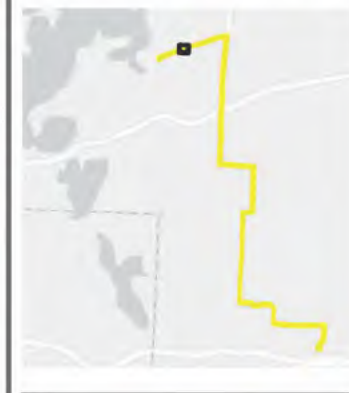
As-built survey will be conducted at structure locations that require compensatory excavation, and the results will be verified and signed by a certified engineer.

**LINE 0734
STRUCTURES IN
FLOOD ZONE**

| Structure | Net Disturbance Cu. Yd | Additional Fill, New Structure Cu. Yd | Compensatory Excavation & Removal* Cu. Yd | Net Fill Cu. Yd |
|-----------|---------------------------|---|---|--------------------|
| 163 | 2.5 | 1.6 | 1.6 | 0 |

*Excavated material will be hauled off site

- Legend**
- Structure in Flood Zone
 - Structure
 - Project Centerline
 - Watershed
 - City of Minnetonka Max Critical 100 Year Flood Area
 - City of Minnetonka 100 Year Storm Water Area
- Contour Type**
- 10 ft
 - 2 ft
 - Floodplain Fill

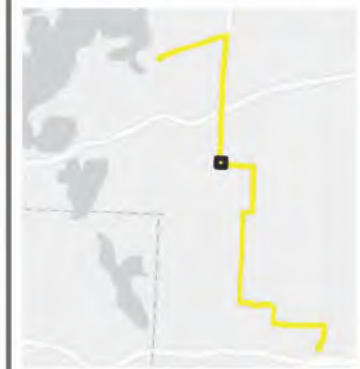


**LINE 0734
STRUCTURES IN
FLOOD ZONE**

Page 2 of 4

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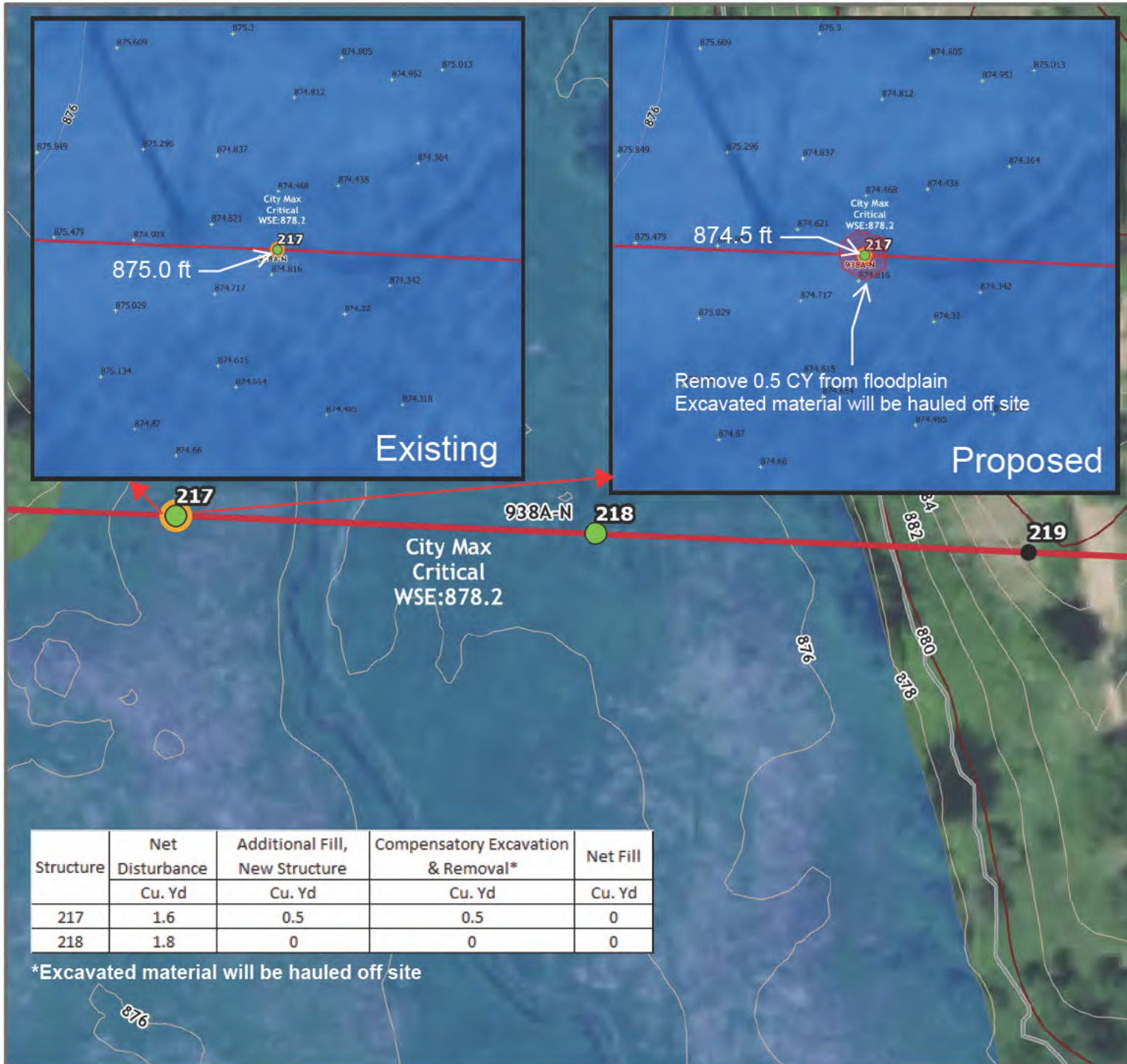
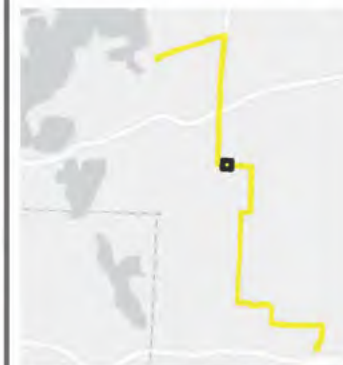
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- 10 ft
 - 2 ft



| Structure | Net Disturbance | Additional Fill, New Structure | Compensatory Excavation & Removal | Net Fill |
|-----------|-----------------|--------------------------------|-----------------------------------|----------|
| | Cu. Yd | Cu. Yd | Cu. Yd | Cu. Yd |
| 215-DE | 1.5 | 0 | 0 | 0 |

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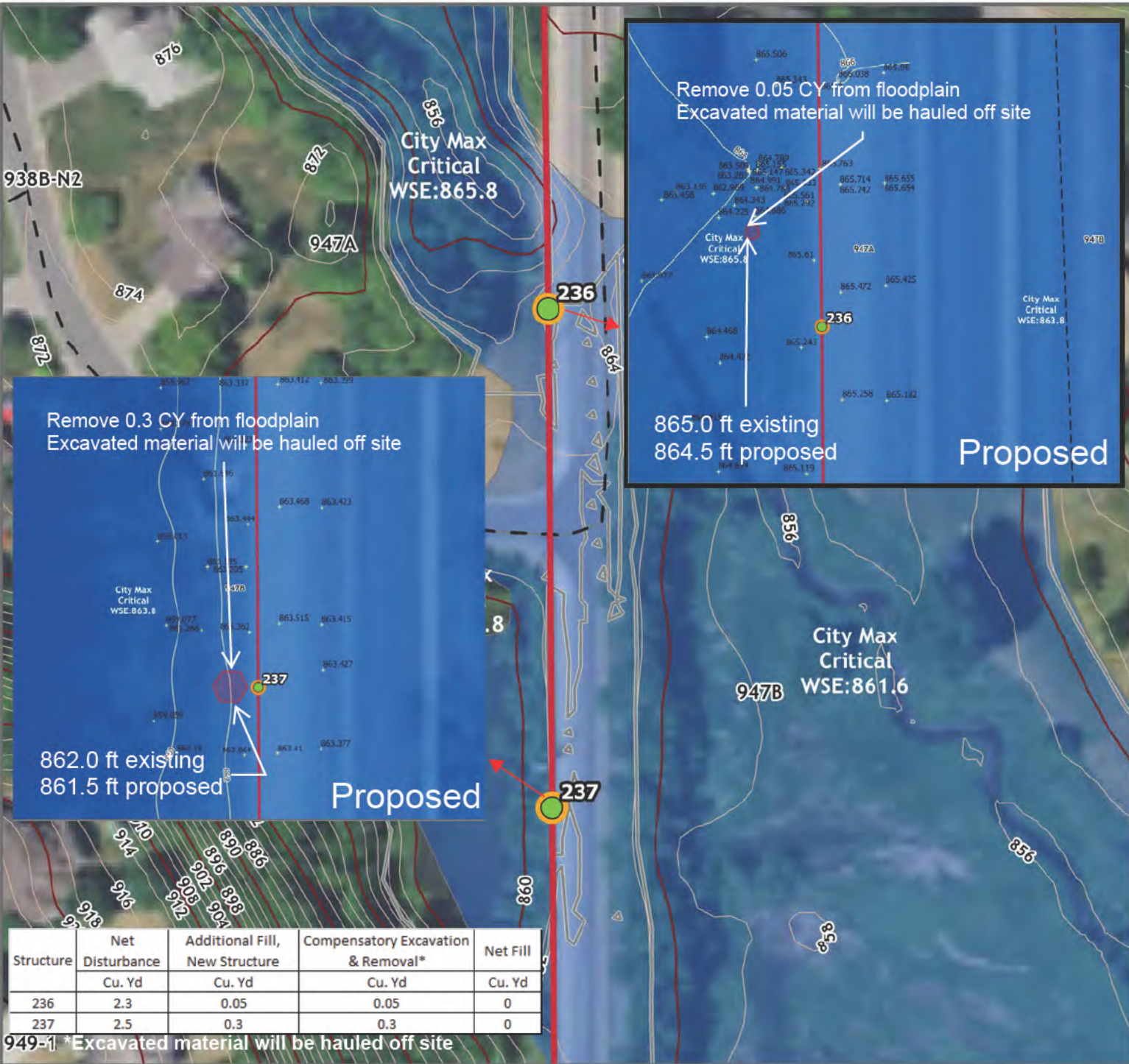
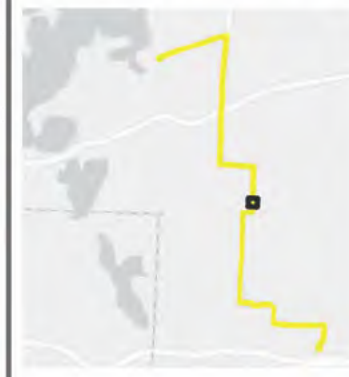
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|-----------|-----------------|--------------------------------|------------------------------------|----------|
| | Cu. Yd | Cu. Yd | Cu. Yd | Cu. Yd |
| 217 | 1.6 | 0.5 | 0.5 | 0 |
| 218 | 1.8 | 0 | 0 | 0 |

*Excavated material will be hauled off site

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| Structure | Net Disturbance | Additional Fill, New Structure | Compensatory Excavation & Removal* | Net Fill |
|-----------|-----------------|--------------------------------|------------------------------------|----------|
| | Cu. Yd | Cu. Yd | Cu. Yd | Cu. Yd |
| 236 | 2.3 | 0.05 | 0.05 | 0 |
| 237 | 2.5 | 0.3 | 0.3 | 0 |

949-1 *Excavated material will be hauled off site



| Structure | Existing Pole Diameter | New Pole Diameter | Ground Elevation | Net Disturbance | Additional Fill, New Structure | Compensatory Excavation & Removal* | Net Fill |
|--------------|------------------------|-------------------|------------------|-----------------|--------------------------------|------------------------------------|----------|
| | Ft | Ft | Ft | Cu. Yd | Cu. Yd | Cu. Yd | Cu. Yd |
| 163 | 1.31 | 1.67 | 904.9 | 2.5 | 1.6 | 1.6 | 0 |
| 215-DE | 1.37 | 1.31 | 876.7 | 1.5 | 0 | 0 | 0 |
| 217 | 1.27 | 1.35 | 875.1 | 1.6 | 0.5 | 0.5 | 0 |
| 218 | 1.41 | 1.39 | 874.5 | 1.8 | 0 | 0 | 0 |
| 236 | 1.59 | 1.63 | 865.3 | 2.3 | 0.05 | 0.05 | 0 |
| 237 | 1.50 | 1.67 | 863.0 | 2.5 | 0.3 | 0.3 | 0 |
| TOTAL | | | | 12.2 | 2.45 | 2.45 | 0 |

Table 1. Line 0734 Summary Within City of Minnetonka Floodplain

*Contractor shall remove the compensatory volume from within the identified floodplain limits, and in close proximity to the associated structure. Excavated soil shall be removed from the site. Contractor shall uniformly grade excavated areas to maintain existing drainage patterns to the extent practicable. Contractor shall avoid all impacts to existing trees and re-vegetate disturbed areas in accordance with project specifications.

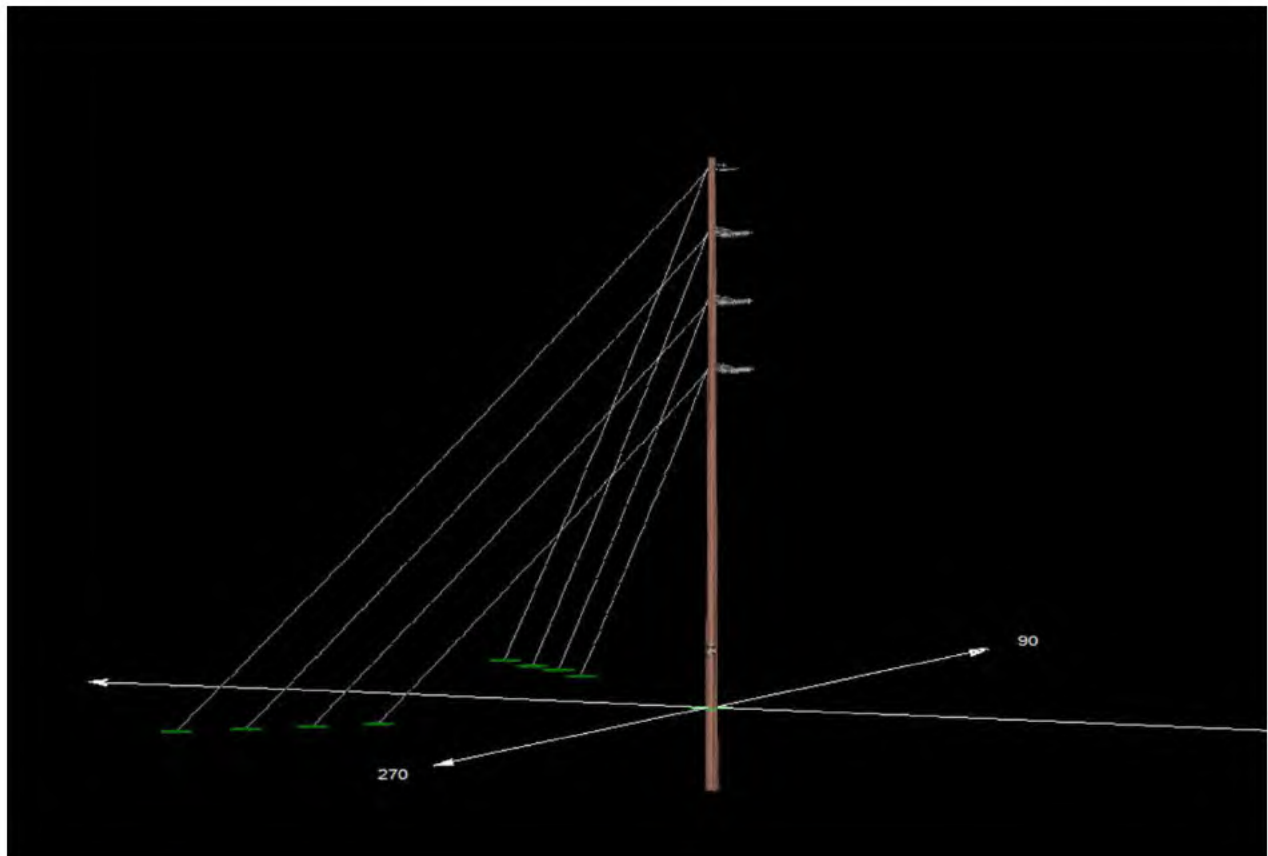


Figure 1. New Structure 215 DE

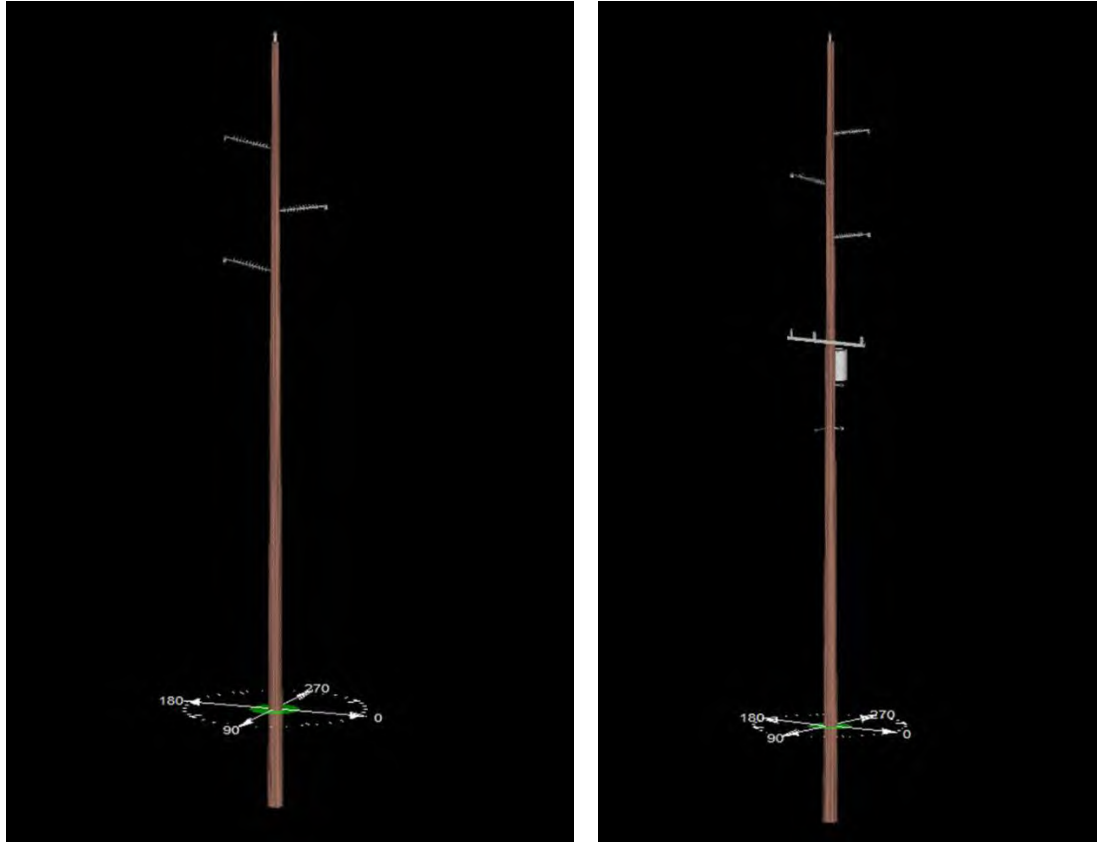


Figure 2. New Pole Structures

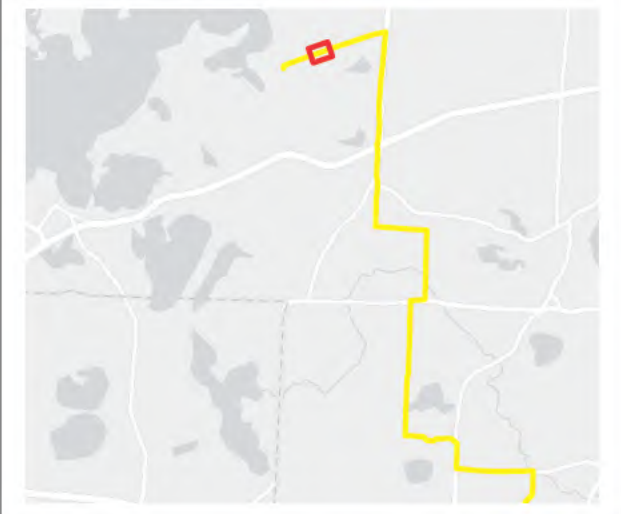
Photos below are of the existing pole structures.







- Structure
 - Project Centerline
 - Access Road
 - ▣ Disturbance Area
 - ▨ Construction Matting
 - ▨ Access Matting
 - Sediment Control Log
 - Redundant SCL (2x)
 - ▣ Vehicle Tracking Control
 - Street Inlet
 - PWI Stream
 - ▣ Public Water Basin
 - ▣ NWI Wetlands
 - Flow Direction
- Contour Type
- 10 ft
 - 2 ft



SCLs may be replaced by rapid stabilization, if completed within 24 hours and prior to any rainfall.

Disturbance limits are approximate and shown for planning/estimating purposes only. Avoid disturbing public and private roads to extent feasible.

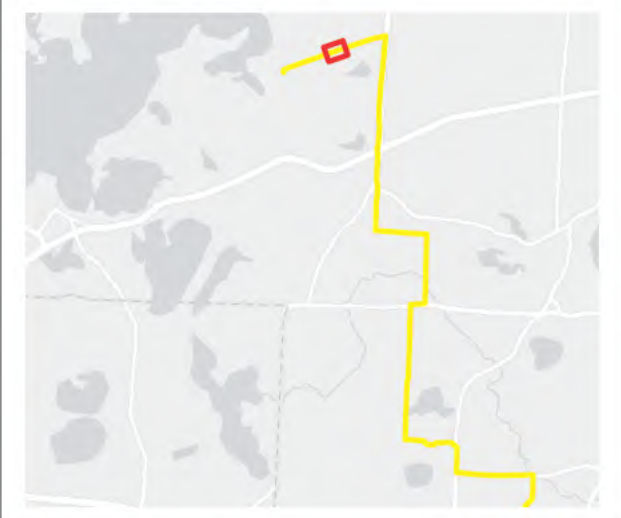
BMPs are subject to field verification of location & extent. Install BMPs on the downslope side of all disturbed areas, where applicable. All disturbed areas will be revegetated. Remove BMPs after disturbed areas have been restored.

Do not install BMPs on public roads or in surface waters. Minimize disturbance in sensitive areas. Clean streets daily where access routes adjoin public roads.

Temporary inlet protection must be provided where stormwater inlets and catch basins are located downslope of construction activities.



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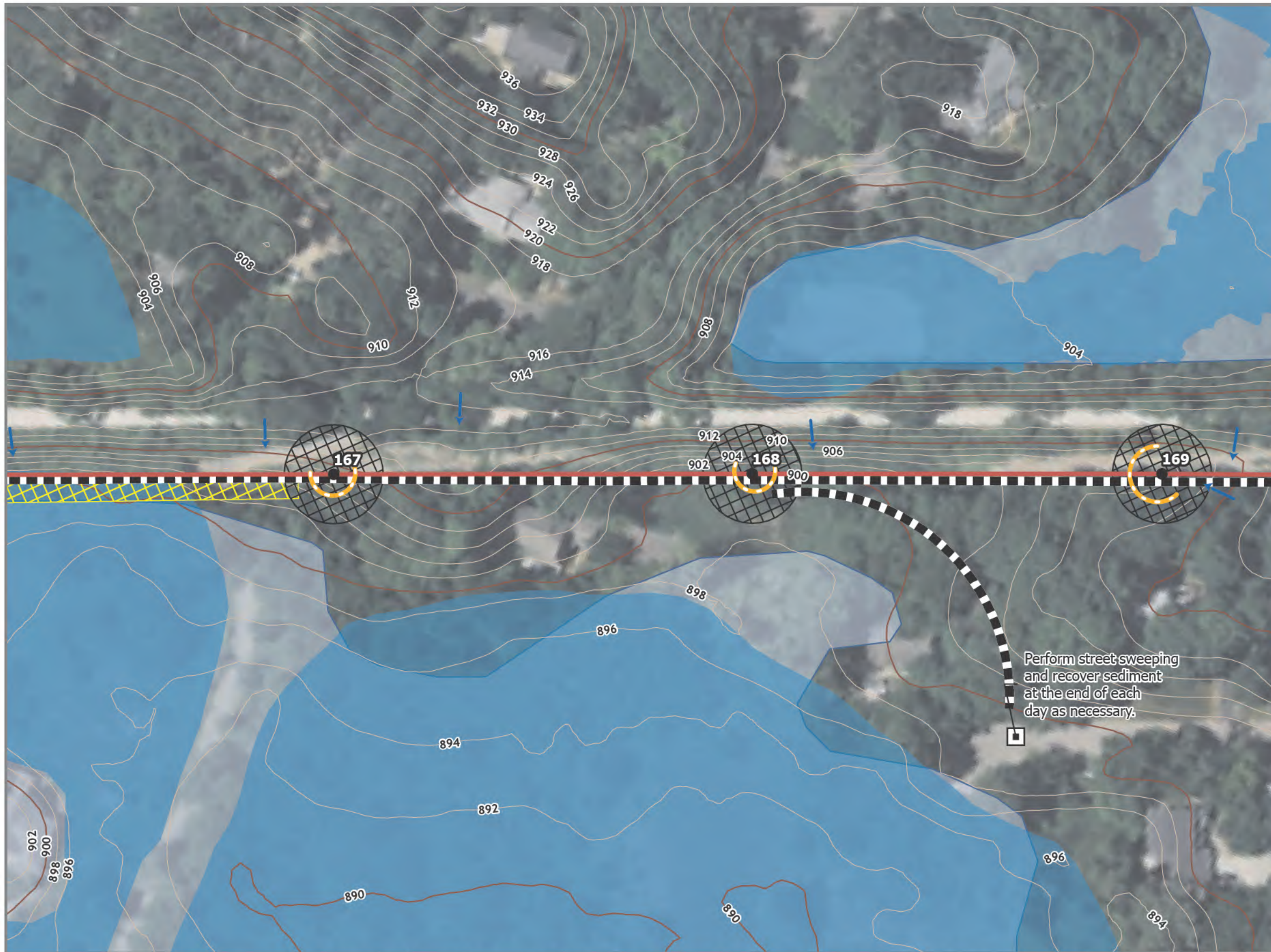
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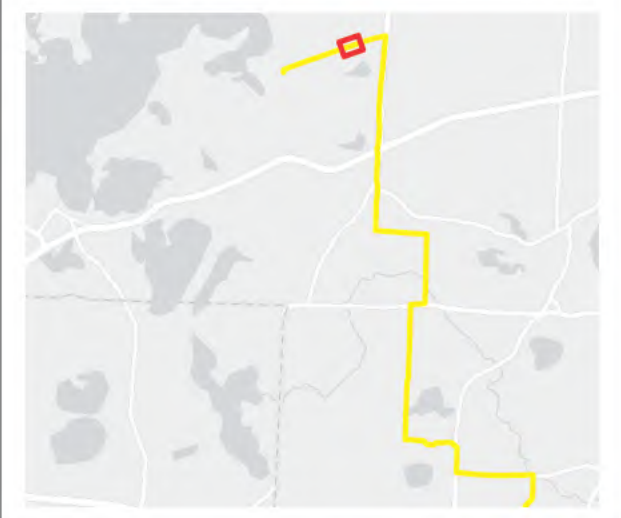
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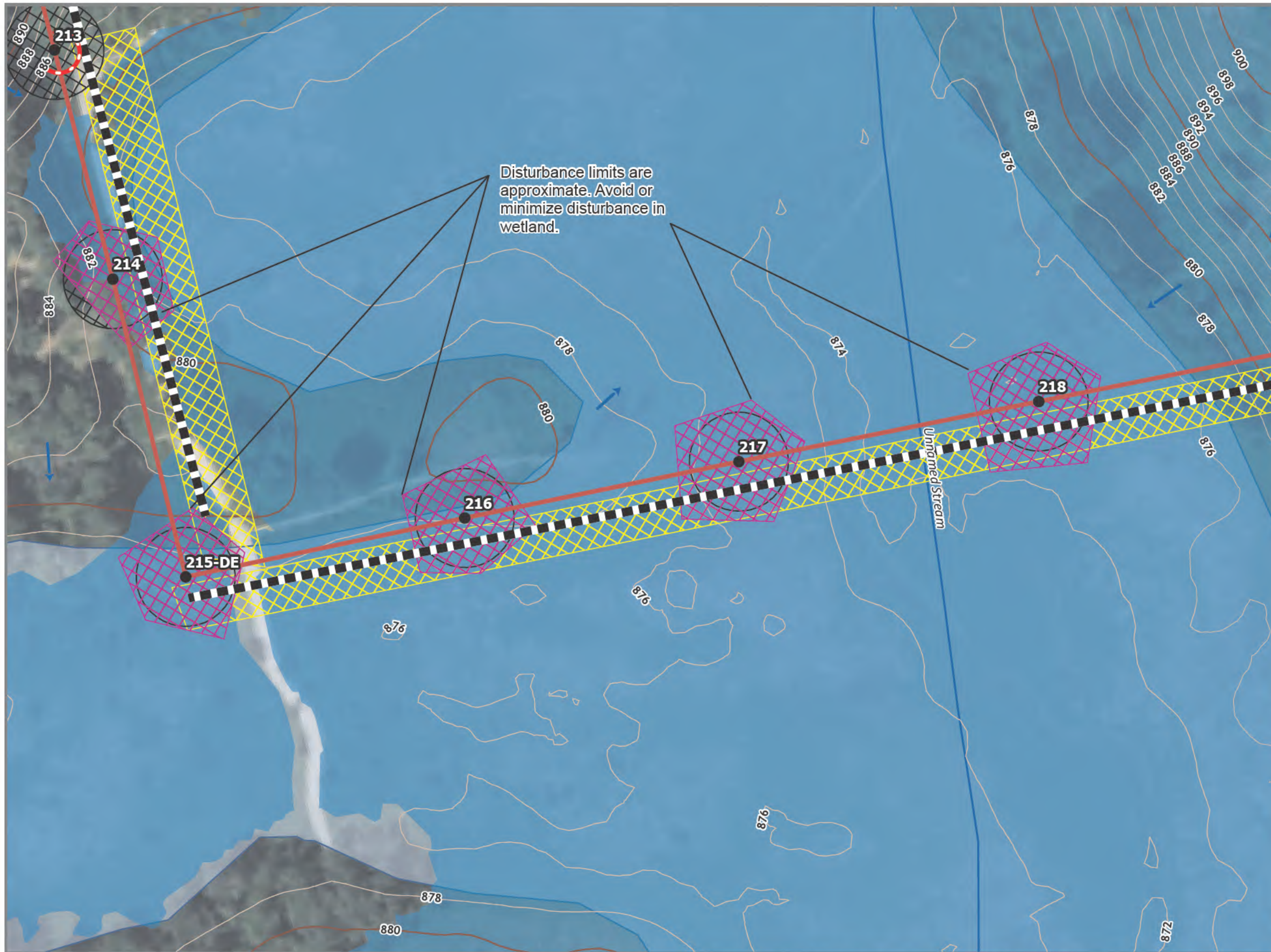
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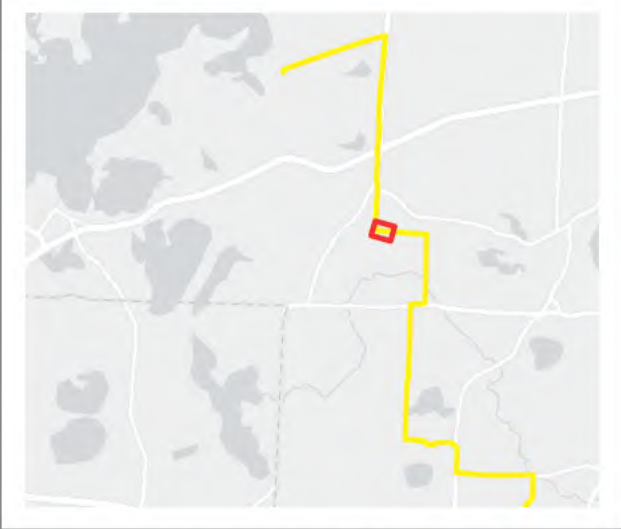
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Disturbance limits are approximate. Avoid or minimize disturbance in wetland.

SCLs may be replaced by rapid stabilization, if completed within 24 hours and prior to any rainfall.

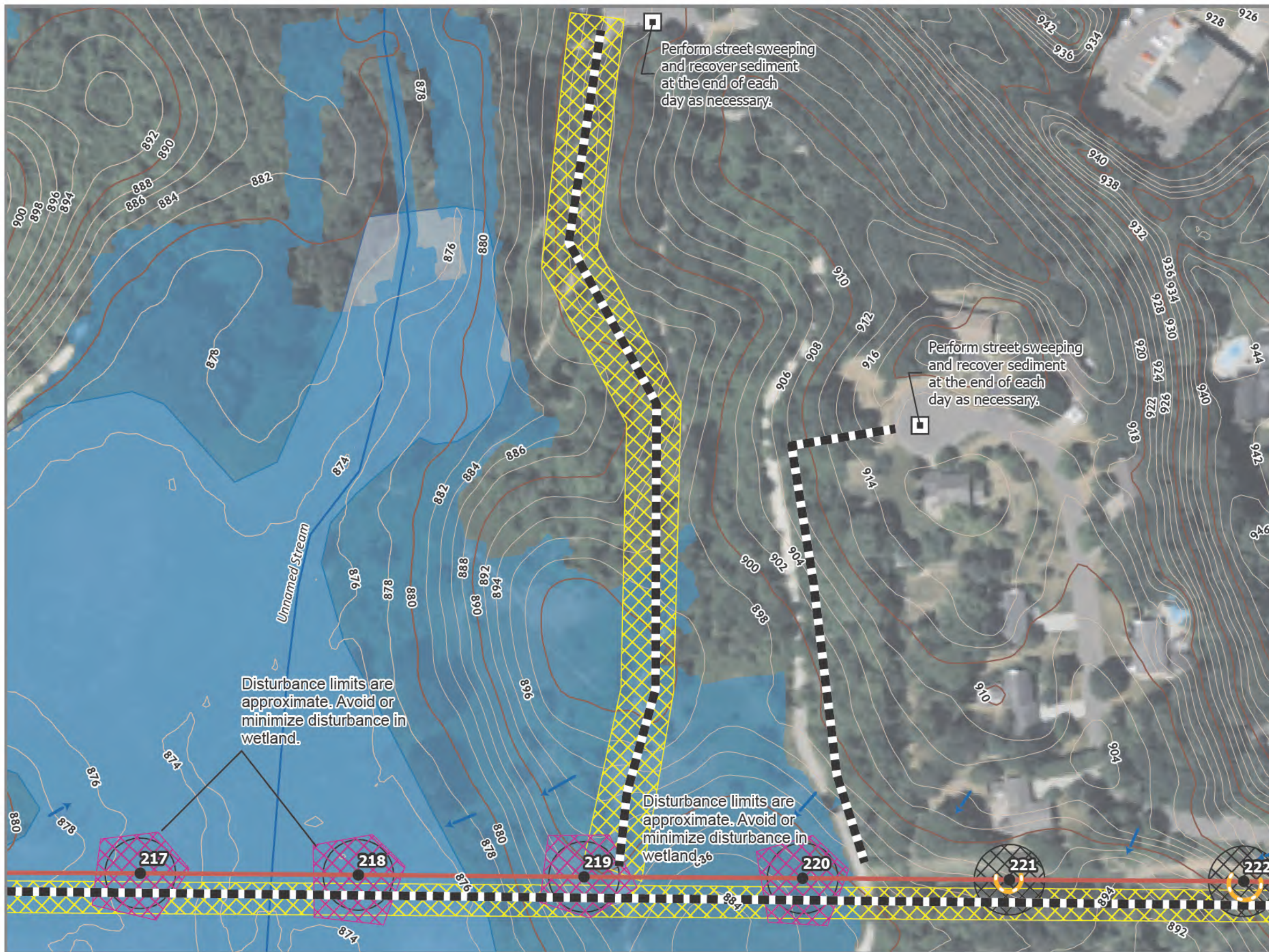
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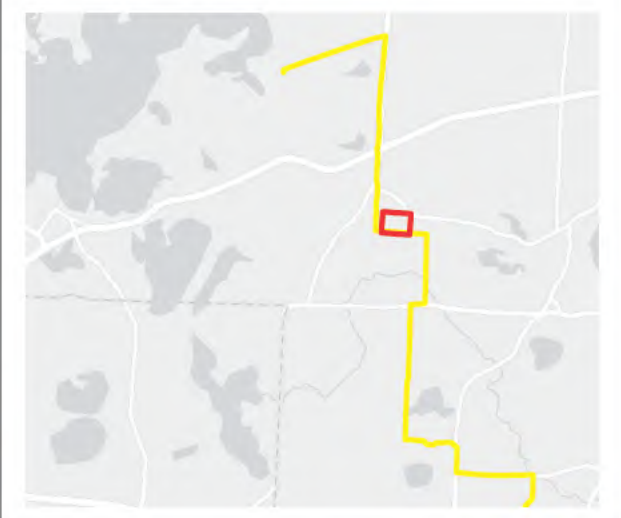
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Disturbance limits are approximate. Avoid or minimize disturbance in wetland.

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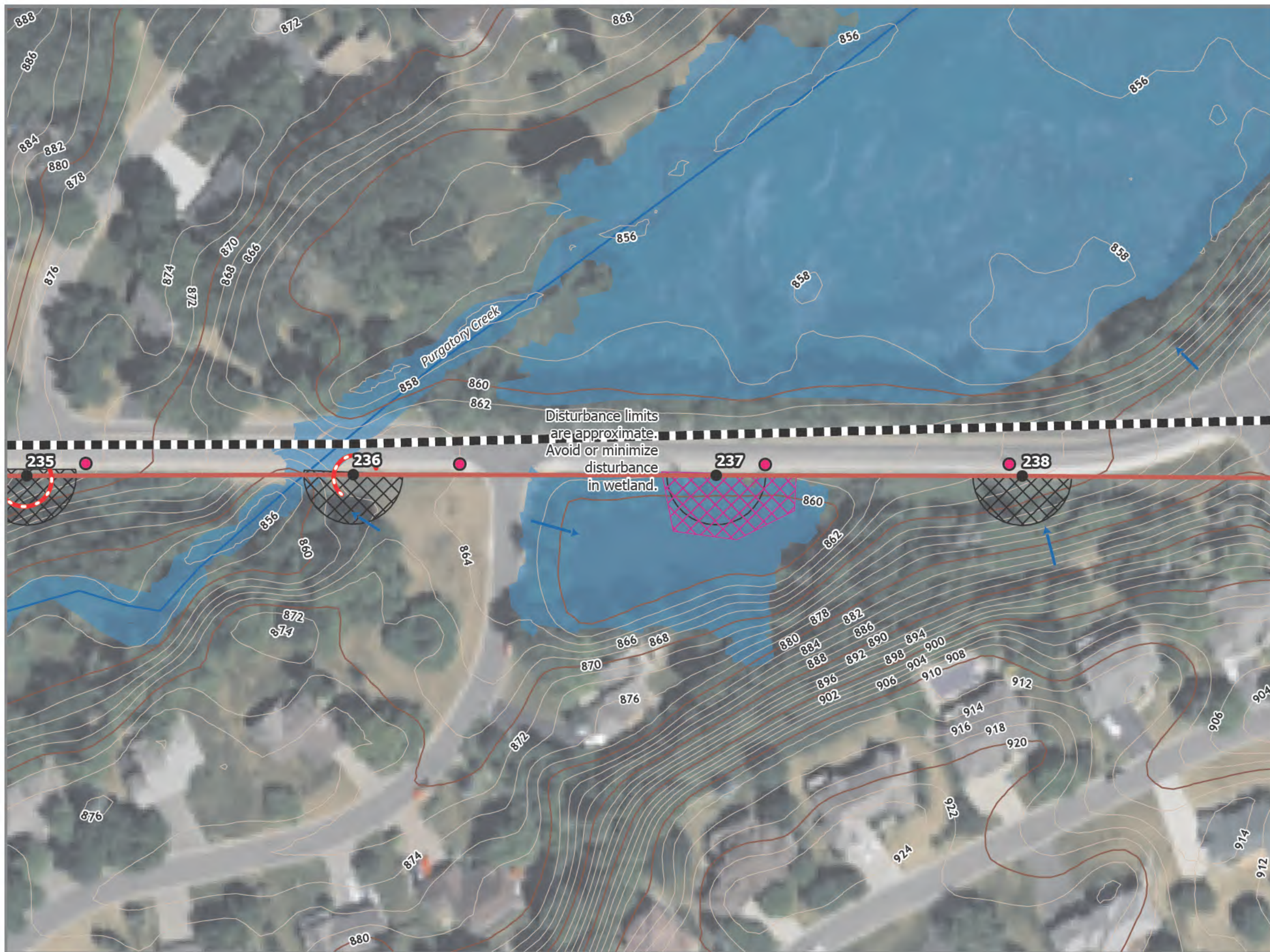
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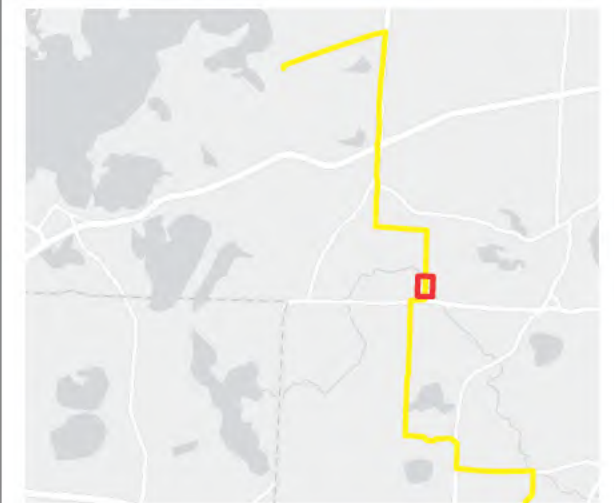
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| Structure # | Existing Height AG (Ft) | New Height AG (Ft) | Variance (Ft) | Comments | Material |
|-------------|-------------------------|--------------------|---------------|----------------------------------|----------|
| 0734-162 | 53 | 71.0 | 18.0 | | Wood |
| 0734-162-1 | NA | 84.5 | - | New Structure | Wood |
| 0734-163 | 63 | 80.0 | 17.0 | | Wood |
| 0734-163-1 | NA | 71.0 | - | New Structure | Wood |
| 0734-164 | 57 | 71.0 | 14.0 | | Wood |
| 0734-165 | 67 | 75.5 | 8.5 | | Wood |
| 0734-166 | 65 | 75.5 | 10.5 | | Wood |
| 0734-167 | 62 | 71.0 | 9.0 | | Wood |
| 0734-168 | 62 | 75.5 | 13.5 | | Wood |
| 0734-169 | 57 | 71.0 | 14.0 | | Wood |
| 0734-170 | 57 | 71.0 | 14.0 | | Wood |
| 0734-171 | 57 | 65.5 | 8.5 | | Wood |
| 0734-172 | 52 | 65.5 | 13.5 | | Wood |
| 0734-173 | 62 | 80.0 | 18.0 | | Wood |
| 0734-174 | 58 | 75.5 | 17.5 | | Wood |
| 0734-175DE | 83 | 80.5 | -2.5 | | Steel |
| 0734-176 | 83.5 | - | - | Not replacing | |
| 0734-177 | 80.0 | - | - | Not replacing | |
| 0734-178 | 97.0 | - | - | Not replacing | |
| 0734-179 | 97.0 | - | - | Not replacing | |
| 0734-180 | 88.0 | - | - | Not replacing | |
| 0734-181 | 92.5 | - | - | Not replacing | |
| 0734-182 | 97.0 | - | - | Not replacing | |
| 0734-183 | 93 | 93.0 | 0.0 | Same str height, but with steel. | Steel |
| 0734-184 | 97.0 | - | - | Not replacing | |
| 0734-185 | 92.5 | - | - | Not replacing | |
| 0734-186 | 88.0 | - | - | Not replacing | |
| 0734-186A | 83.5 | - | - | Not replacing | |
| 0734-187 | 80.0 | - | - | Not replacing | |
| 0734-188 | 89.0 | - | - | Not replacing | |
| 0734-189 | 80.0 | - | - | Not replacing | |
| 0734-190 | 80.0 | - | - | Not replacing | |
| 0734-191 | 84.5 | - | - | Not replacing | |
| 0734-191A | 83.5 | - | - | Not replacing | |
| 0734-192 | 88.0 | - | - | Not replacing | |
| 0734-192A | 97.0 | - | - | Not replacing | |
| 0734-193 | 97.0 | - | - | Not replacing | |
| 0734-194 | 80.0 | - | - | Not replacing | |
| 0734-195 | 72 | 80.0 | 8.0 | | Wood |
| 0734-196 | 70 | 80 | 10.0 | | Wood |
| 0734-196A | 74.5 | 74.5 | 0.0 | | Laminate |
| 0734-197DE | 70.5 | 70.5 | 0.0 | | Steel |

| | | | | | |
|------------|------|------|------|----------------|----------|
| 0734-198 | 71 | 74.5 | 3.5 | | Laminate |
| 0734-199 | 57.5 | 79 | 21.5 | | Laminate |
| 0734-200 | 57.5 | 80 | 22.5 | | Wood |
| 0734-201 | 67.5 | 80 | 12.5 | | Wood |
| 0734-202 | 67 | 80 | 13.0 | | Wood |
| 0734-204 | 71 | 79 | 8.0 | | Laminate |
| 0734-205 | 67.5 | 79 | 11.5 | | Laminate |
| 0734-206 | 65 | 74.5 | 9.5 | | Laminate |
| 0734-207 | 60 | 75.5 | 15.5 | | Wood |
| 0734-208 | 52 | 62 | 10.0 | | Wood |
| 0734-209 | 58 | 70 | 12.0 | | Wood |
| 0734-210 | 62 | 80 | 18.0 | | Wood |
| 0734-211 | 58 | 71 | 13.0 | | Wood |
| 0734-212 | 52.5 | 62 | 9.5 | Purgatory Park | Wood |
| 0734-213 | 62 | 71 | 9.0 | Purgatory Park | Wood |
| 0734-214 | 57.5 | 66.5 | 9.0 | Purgatory Park | Wood |
| 0734-215DE | 57 | 56.5 | -0.5 | Purgatory Park | Wood |
| 0734-216 | 52.5 | 57.5 | 5.0 | Purgatory Park | Wood |
| 0734-217 | 57 | 62 | 5.0 | Purgatory Park | Wood |
| 0734-218 | 58 | 66.5 | 8.5 | Purgatory Park | Wood |
| 0734-219 | 53 | 57.5 | 4.5 | Purgatory Park | Wood |
| 0734-220 | 58 | 66.5 | 8.5 | Purgatory Park | Wood |
| 0734-221 | 57 | 62 | 5.0 | | Wood |
| 0734-222 | 61 | 66.5 | 5.5 | | Wood |
| 0734-223 | 52 | 53 | 1.0 | | Wood |
| 0734-224 | 61 | 66.5 | 5.5 | | Wood |
| 0734-225 | 62 | 71 | 9.0 | | Wood |
| 0734-226DE | 65 | 80.5 | 15.5 | | Steel |
| 0734-227 | 62 | 80 | 18.0 | | Wood |
| 0734-228 | 65.5 | 71 | 5.5 | | Wood |
| 0734-229 | 60 | 66.5 | 6.5 | | Wood |
| 0734-230 | 60 | 71 | 11.0 | | Wood |
| 0734-231 | 60 | 75.5 | 15.5 | | Wood |
| 0734-232 | 60 | 75.5 | 15.5 | | Wood |
| 0734-233 | 57.5 | 71 | 13.5 | | Wood |
| 0734-234 | 50 | 66.5 | 16.5 | | Wood |
| 0734-235 | 55 | 71 | 16.0 | | Wood |
| 0734-236 | 60.5 | 75.5 | 15.0 | | Wood |
| 0734-237 | 56.5 | 80 | 23.5 | | Wood |
| 0734-238 | 54.5 | 84.5 | 30.0 | | Wood |
| 0734-241DE | 66 | 70 | 4.0 | | Wood |
| 0734-242 | 62 | 75.5 | 13.5 | | Wood |
| 0734-243DE | 80 | - | - | Not replacing | Steel |
| 0734-244 | 67 | 80 | 13.0 | | Wood |

Wood

7113 Duck L



Laminate



Steel

