

2023 Street Lighting Replacement Project Summary

last updated 4.3.23



Existing Conditions

General:

- Of the 21,000 City lights, approximately 520 currently utilize the direct bury wiring system. The majority of these are Xcel decorative poles.
- All lights proposed as part of this project are Xcel poles with direct bury wire.
- The Xcel decorative poles existing today were originally paid for with property assessments.

Previous Challenges:

- Maintenance Agreement had expired, which changes repair responsibilities.
- poles without power (broken wire) would no longer qualify for repair by Xcel
- City was not allowed to repair wiring on system that was not connected to City cabinet with metered power
- poles with deteriorated condition are not allowed for replacement under existing Agreement

Current Process for Light Out

Cases called into 311 are referred to Xcel to check power

If the pole *has* power, Xcel will repair (bulb, fuse, and ballast).

If the pole does *not* have power, Xcel will not repair

Some poles without power have received temporary power if:

-Lights are connected to City paid utility meter which requires new wire connection to nearby cabinet (temp. overhead wiring).

Or

-Installation of new cabinet. Pole and foundation condition would remain the same.

Locations where temp. power options existed were limited.

Additional Note:

Direct bury wire repair/splices are unreliable and often nearby breaks occur shortly after repairs.

Policy Change

Replacement of Direct Bury Wire Systems:

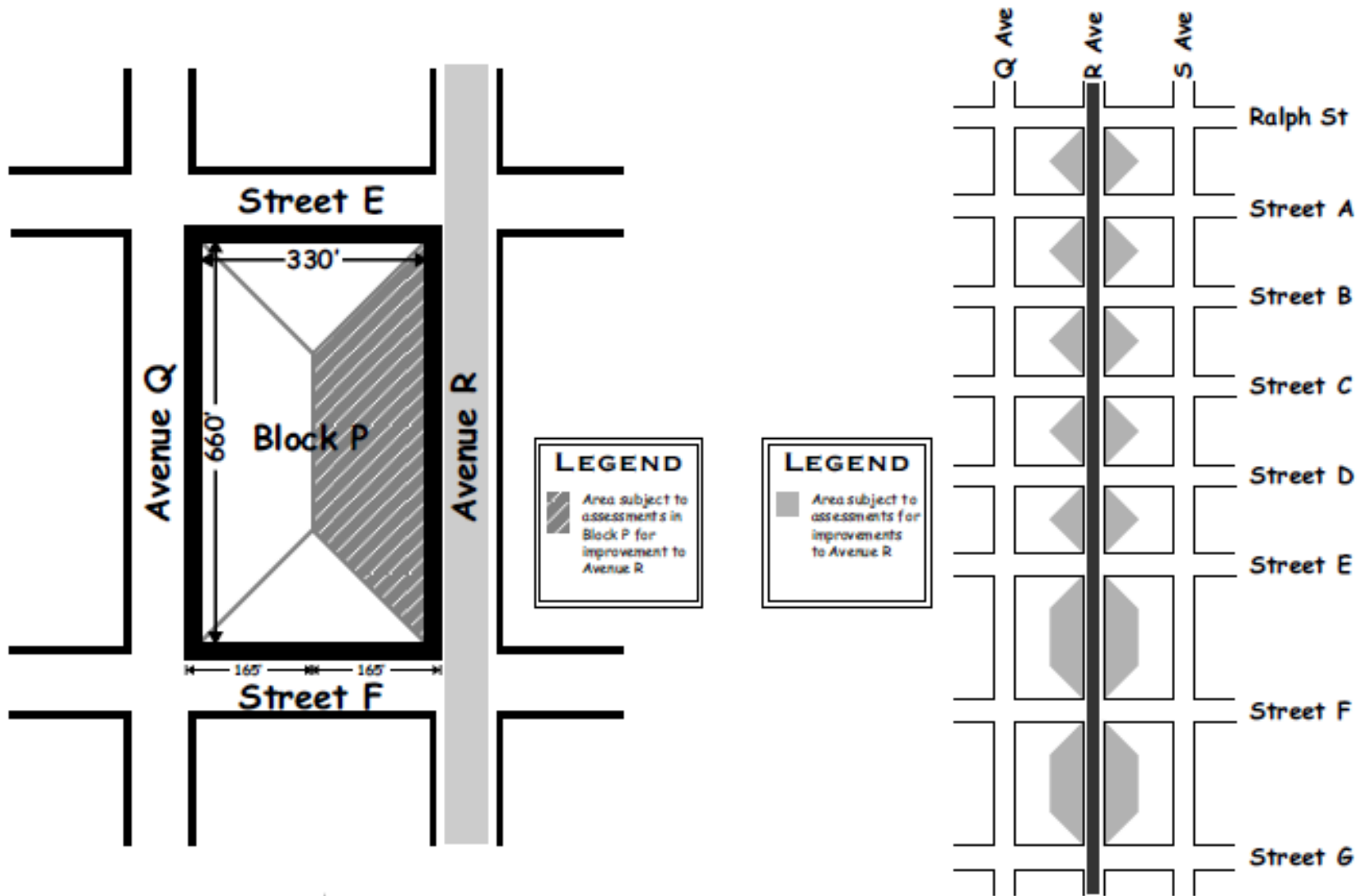
Previous Policy:

Petition for assessment of adjacent properties for 100% project cost to replace direct bury wire systems. If petition failed then wood poles would replace decorative poles.

Policy Update:

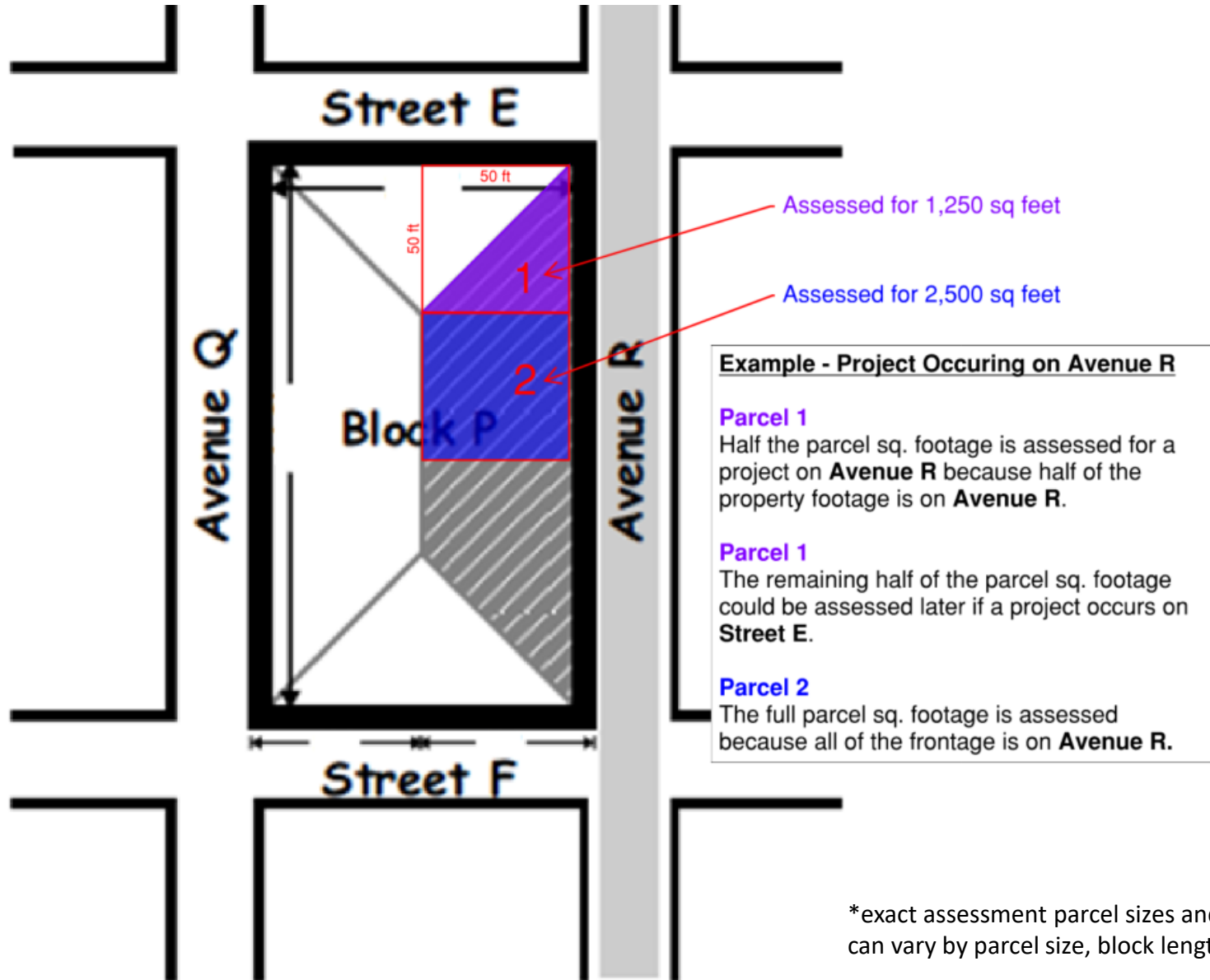
1. Petition Has Been Removed
2. Assessment Reduction to Adjacent Properties from 100% to 25%
 - 25% of project cost would be assessed to adjacent properties
 - 75% of project cost would be City funded

General Assessment Information



Specific assessment questions to be coordinated with City assessment group.

General Assessment Information



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*exact assessment parcel sizes and polygon assessment areas can vary by parcel size, block length, road shape, etc.

Example Properties

***This assessment rate example shown below is an estimate. Final assessment rate to be established prior to assessment letter mailing.**

Example 1 – smaller lot

Size

50ft x 130ft = 6,500 sq. ft

Cost

\$1,859 total or \$92.95 per year, plus interest, over 20 years

Example 2 – medium lot

Size

70ft x 138ft = 9,660 sq. ft

Cost

\$2,763 total or \$138.16 per year, plus interest, over 20 years

Outcome

Pending final project approval:

Improvements:

LED Fixtures:

- better lighting uniformity (less difference between bright and dark spots)
- fixtures are full cutoff so there is no up-light (meets dark skies goals)
- reduced electricity use (reduced CO2 consumption)
- reduced maintenance which includes less outage frequency
- fixtures are designed to place approximately 2/3 of the light toward the roadway and 1/3 toward the sidewalk area

Poles:

- Anodized aluminum is resistant to rust and corrosion

Foundations:

- Concrete foundations less likely to settle or lean compared to screw in foundations

Conduit System:

- protects wiring
- allows option of effective spot repairs

Expected life expectancy of new street lighting system is 30 - 50 years. There are existing examples of active systems within the City of this age using concrete foundations and conduit.

- Recent Work
- 2023 Street Lighting Project
- Future Work



*final details subject to change

Project Areas

Draft Map
(2/22/23) Final Details
Subject to Change

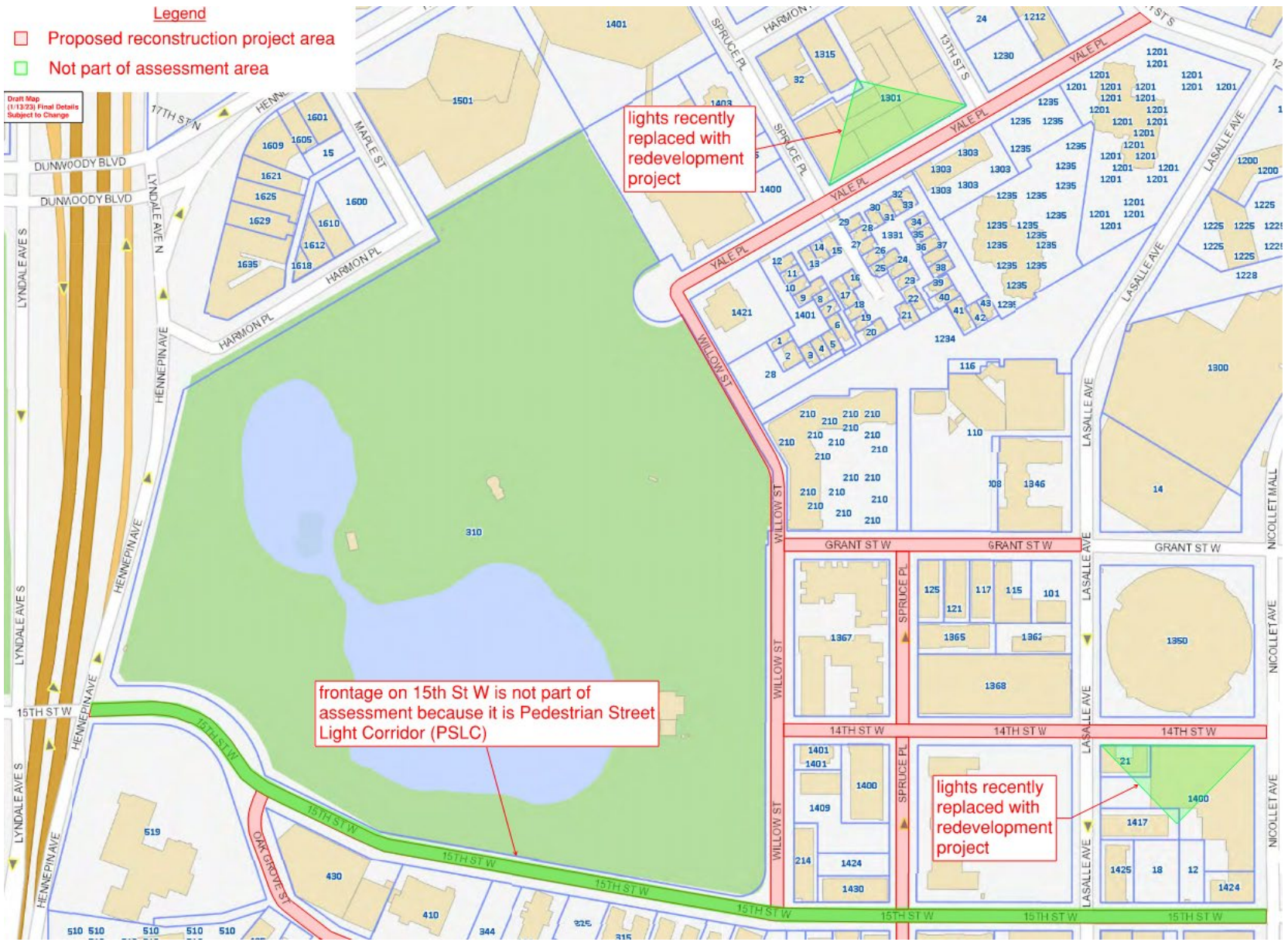
Legend

- Proposed reconstruction project area
- Previously completed project
- Upcoming reconstruction project area



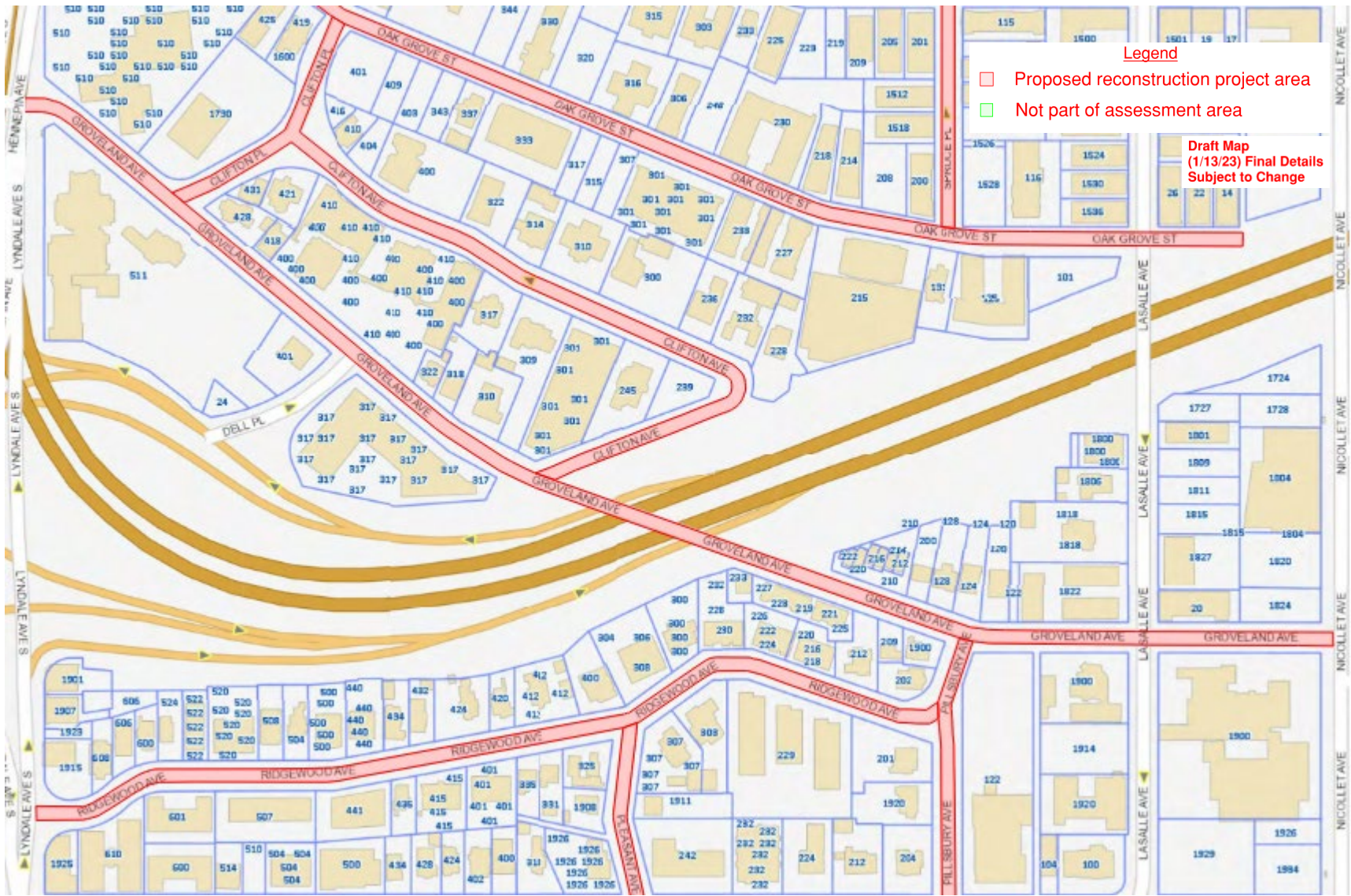
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Project Areas



*final details subject to change

Project Areas



*final details subject to change

Estimated Timeline for 2023

March

Public Works and Infrastructure Committee – Project Designation

- provide project cost estimate
- set public hearing dates

March and April

Neighborhood Outreach Notifications and Meetings

- open house project presentations (2 in-person with virtual option and 1 virtual only)
- public hearing notice publication
- public hearing mailing and assessment info provided
- pre-assessment informational meeting (virtual)

May

Public Works and Infrastructure Committee - Project Approval and Assessment (May 4th)

- proposal of work to proceed and adopt special assessments
- public hearing

May and June

Project Bid

June/July to end of
year

Project Construction

Project Info

Project Information Website:

<https://www.minneapolismn.gov/government/projects/loring-hts-str/>

Contact Information:

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612-673-5987

Meeting Dates:

1. Monday March 27th 7:00 PM – Loring Community Arts Building
2. Thursday March 30th 7:00 PM - Loring Community Arts Building
3. Thursday, April 13th 10:30 – noon Nicollet/Loring Safety Coalition Virtual Meeting Zoom Link on LoringPark.org
4. Pre-Assessment Informational Meeting (virtual) anticipated to be week of April 24th. Final date and time will be in assessment letter and posted to project webpage.
5. Public Works Infrastructure (PWI) Committee – May 4th - information on City LIMS website