



Mt. Washington Landslide Mitigation

Reese Street & Greenleaf Street Project: Public Information Meeting #1
March 23, 2022



FEMA

Agenda



- ① Introduction
- ② General Project Overview
- ③ Potential Mitigation Measures
- ④ Public Engagement Process
- ⑤ Next Steps
- ⑥ Questions & Answer

Housekeeping



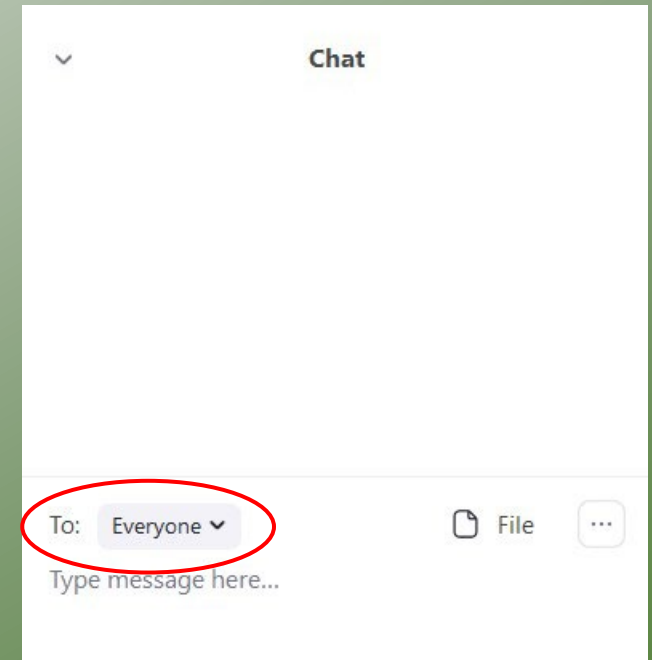
- Session is being recorded and will be posted to EngagePGH website
- Using the Chat Feature to ask questions
- Dedicated Q&A Segments after presentation
- Special Accommodations



Technical Difficulties? – Chat Chad Williams



Joining by phone ? – *6 - Toggle mute/unmute
*9 - Raise hand



Project Team



City of Pittsburgh,
Department of Mobility
and Infrastructure
(DOMI)



Pennsylvania Emergency
Management Agency
(PEMA)



FEMA

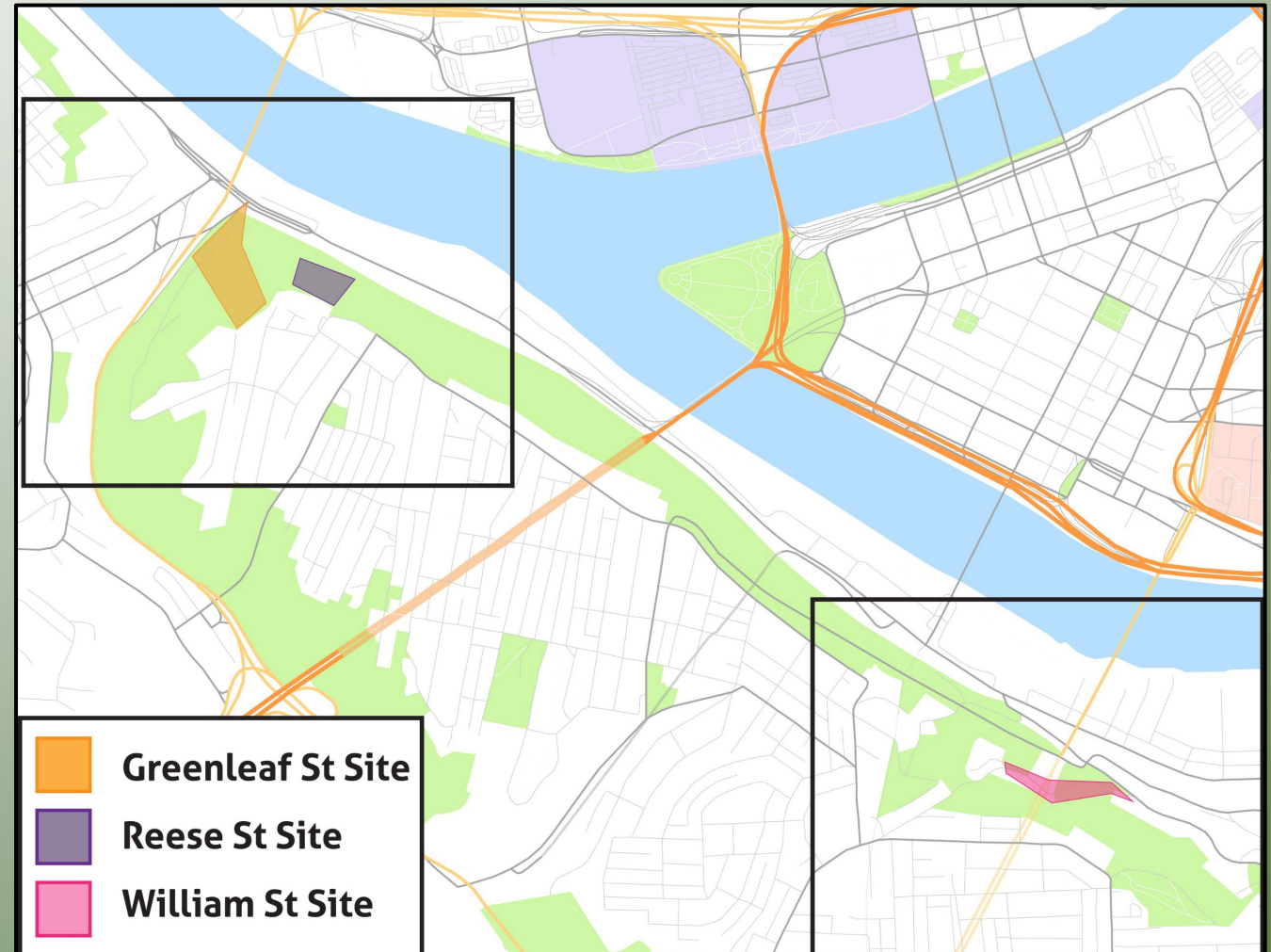
Federal Emergency
Management Agency
(FEMA)



General Overview



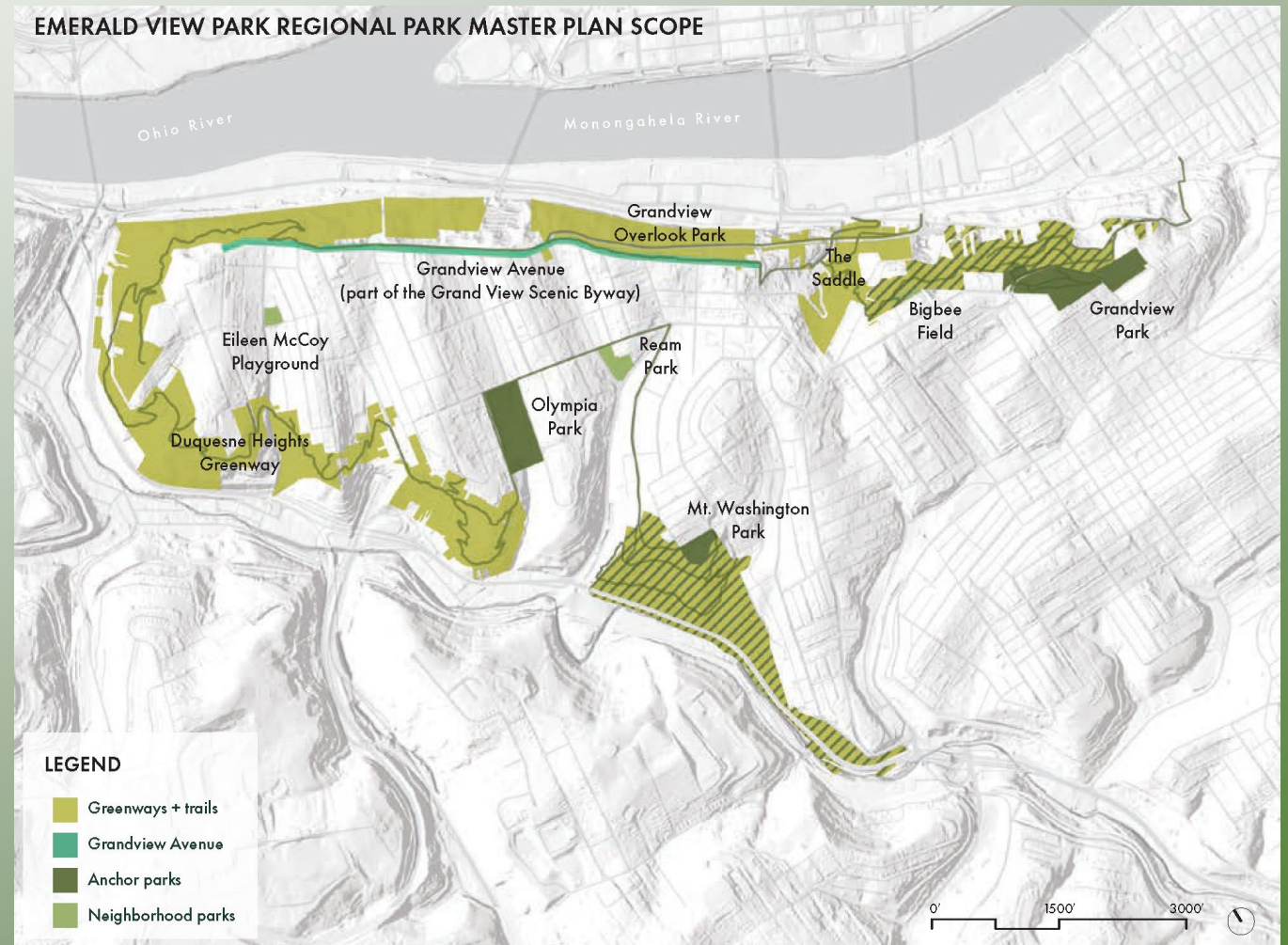
- Three Areas on Mt Washington
 - William St
 - Greenleaf St
 - Reese St (CBS Tower)
- Design and construct mitigation solutions



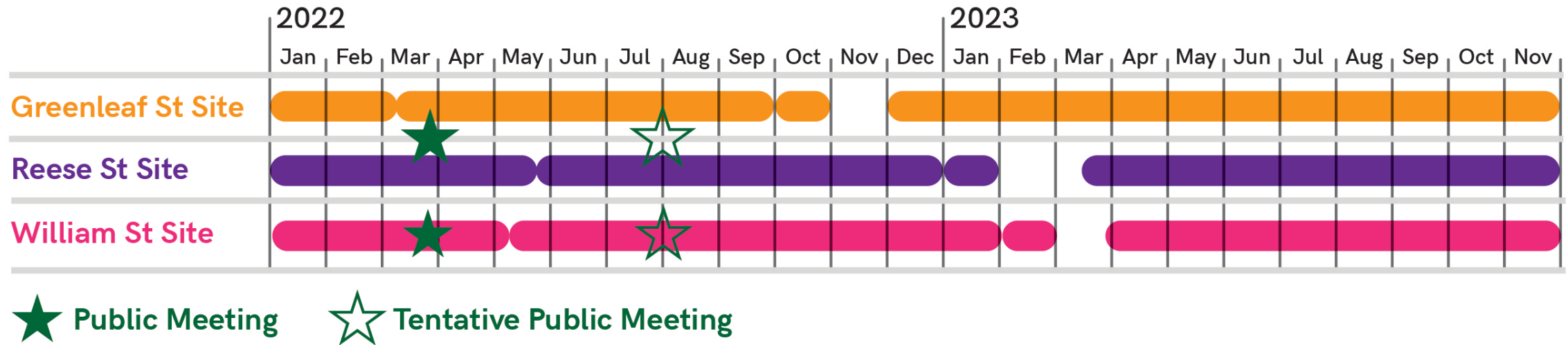
Goals



- Stabilize selected slopes to protect
 - Roadways
 - Properties
- Stabilize selected roadways
- Enhance the intersection Cola St & William St
- Consider Emerald Park Master Plan (EPMP)



General Project Timeline



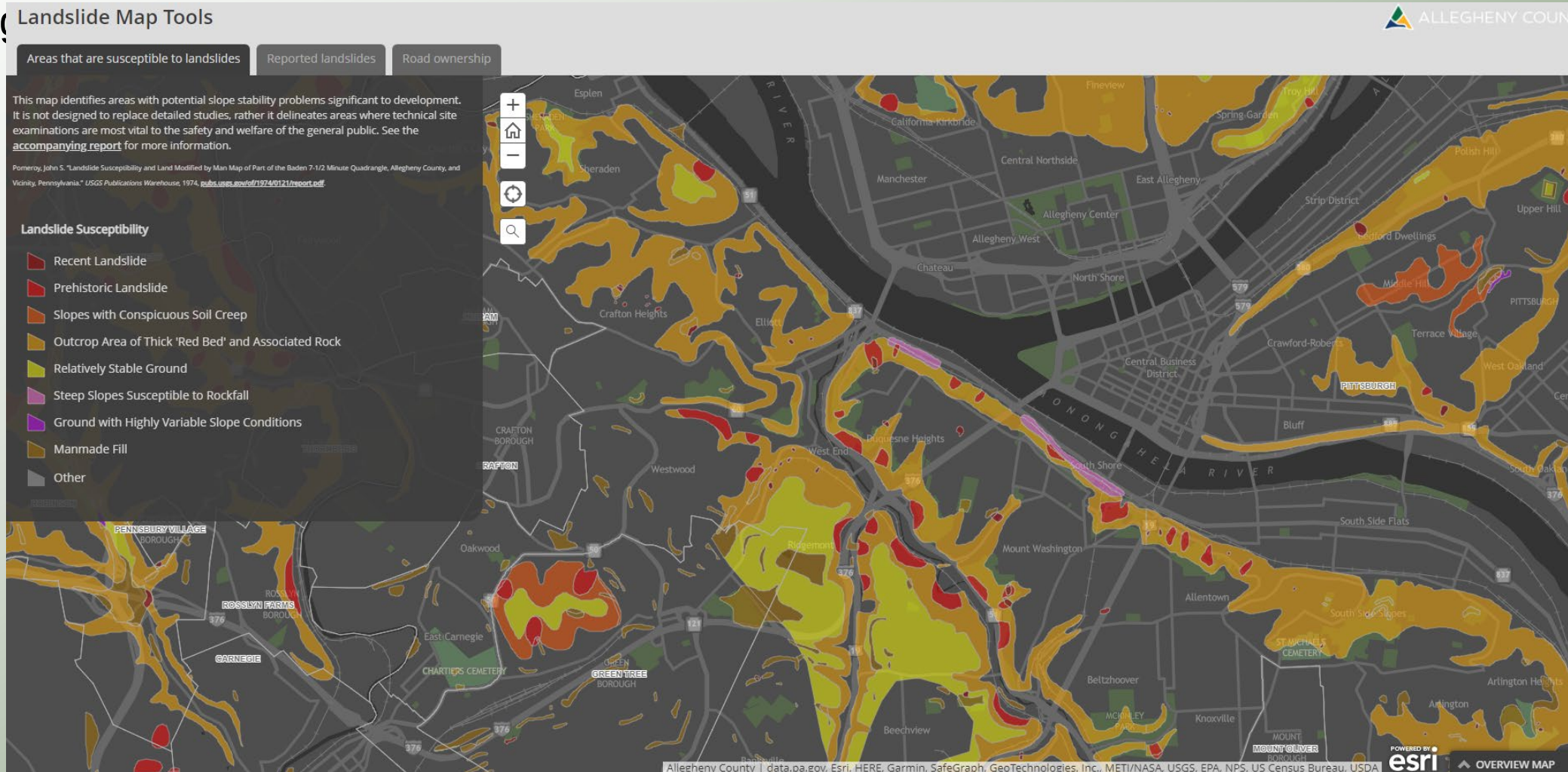
Three Project Phases: Preliminary Design; Final Design; Bid/Construction

Duration: January 2022 through November 2023

Landslide Potential



Allegheny County Landslide Portal: <https://landslide-portal-alco.org/>



Site History



- Mt. Washington slopes – very steep terrain
- Development occurs along the face of the slope supporting steel and tourism industry
- Significant landslides occur periodically



Greenleaf / Reese Street



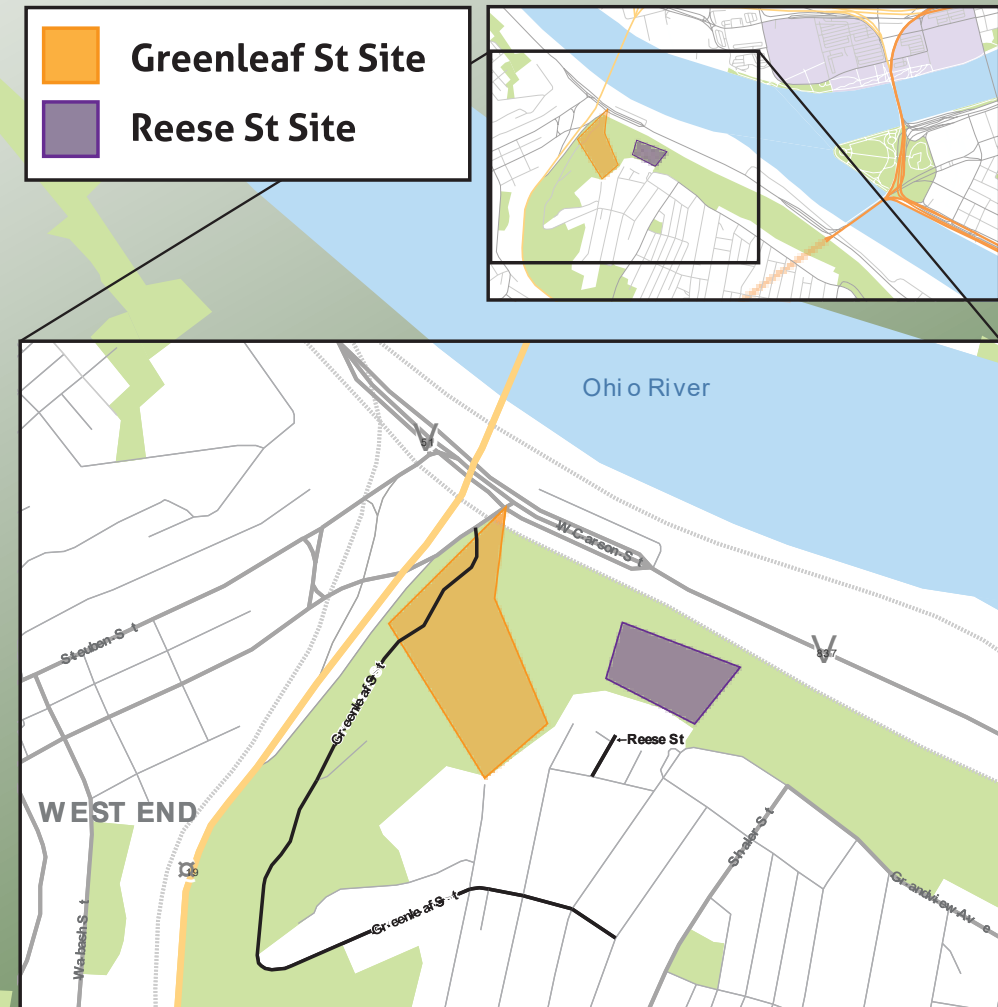
Greenleaf St

- 2018 - Catastrophic failure

Reese St

- 2011 – slide occurs behind communication tower
- 2018 – second slide occurs behind communication tower

Project Location



Greenleaf / Reese Street



Reese St Slide

Greenleaf St Slide

Greenleaf Street



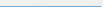
2018 - Catastrophic failure

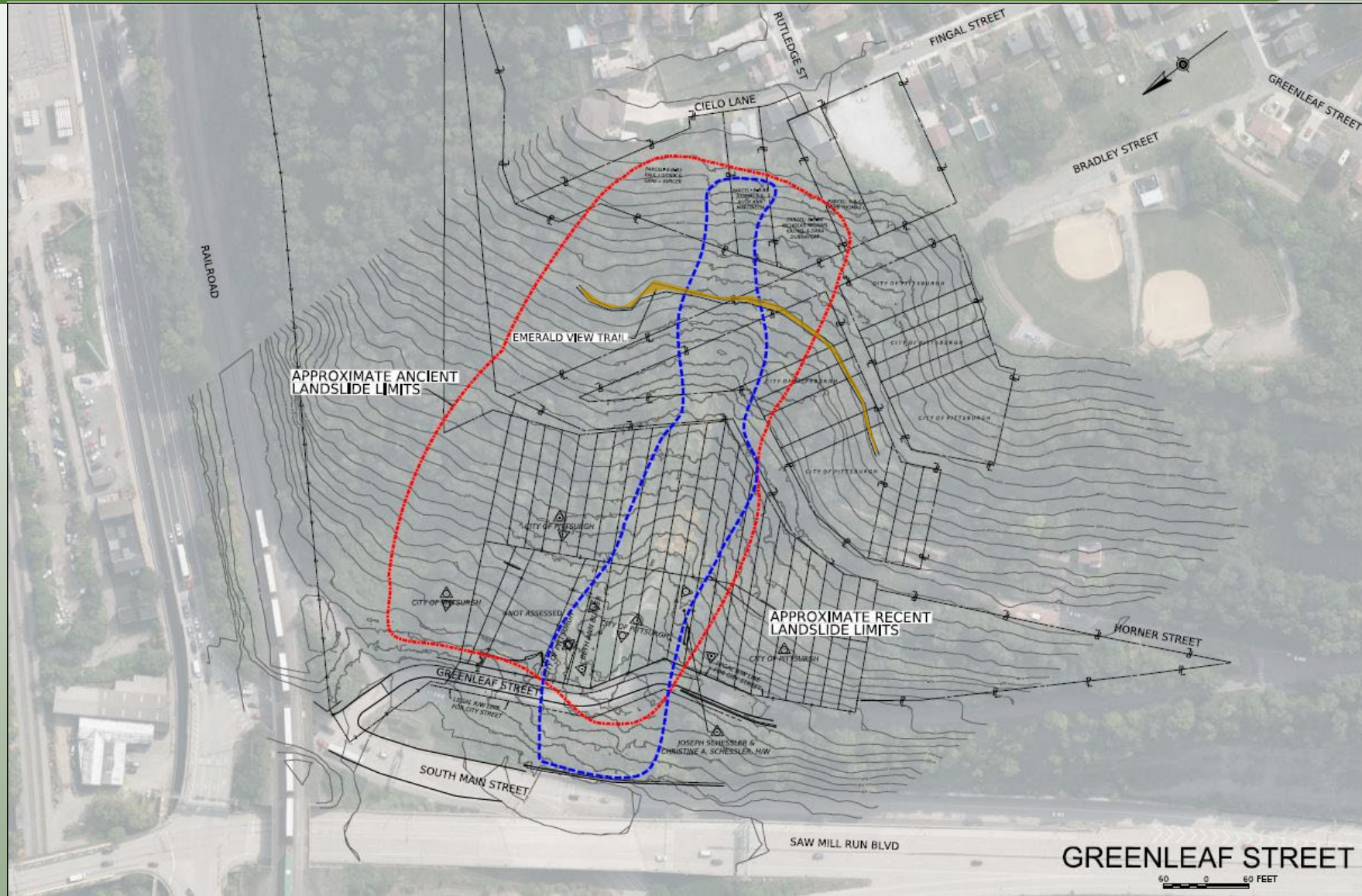
- Destroys home
- Blocks Roadway
- Severs Trail



Greenleaf Street



-  Ancient landslide limits
-  Recent landslide limits
-  Emerald View Park Trail



Current Site Conditions



Mitigation Concepts



Two areas to stabilize:

- Toe of slope
- Trail

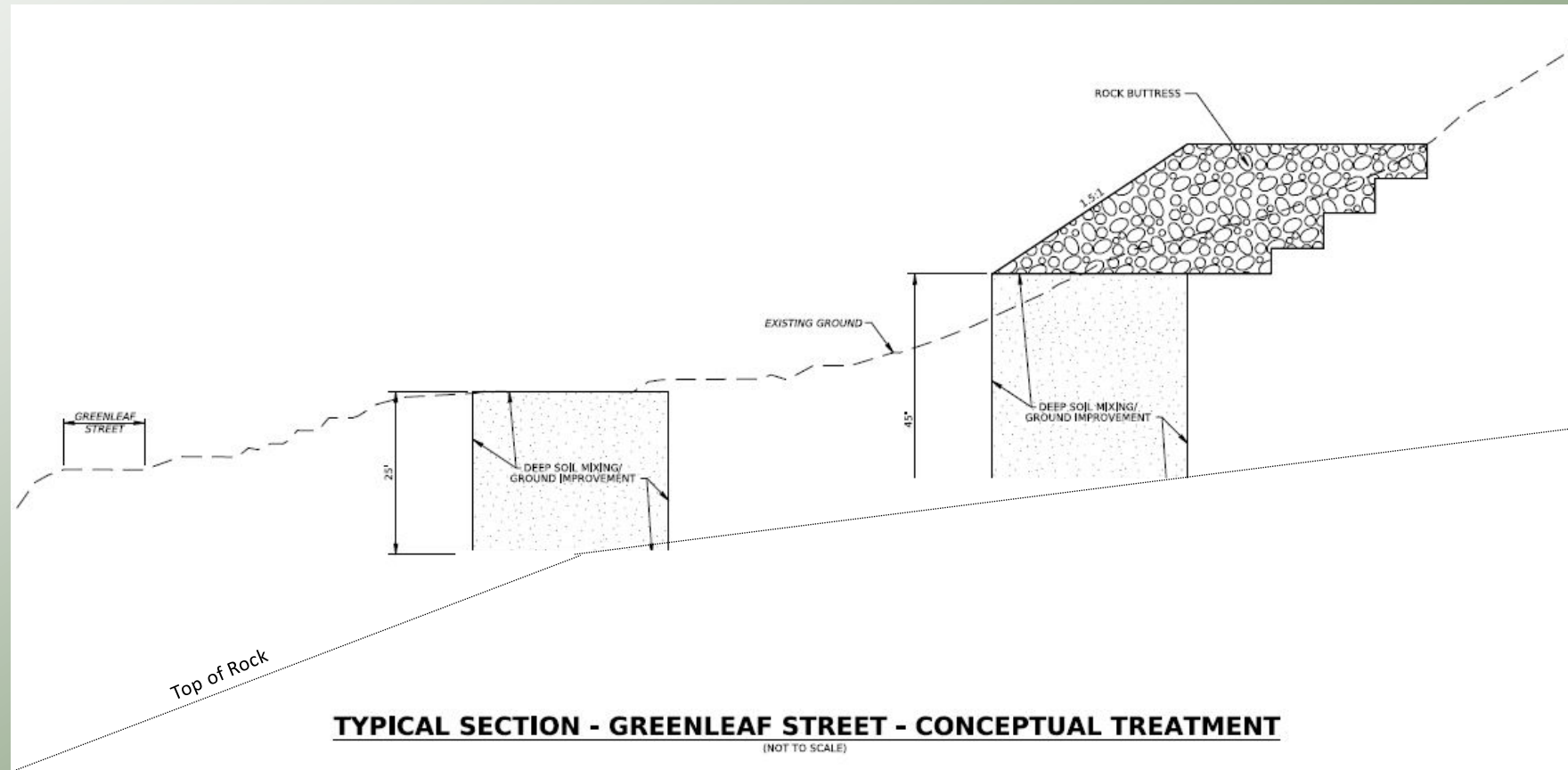


Toe of Slope Treatment



Ground improvement
of in-place soils

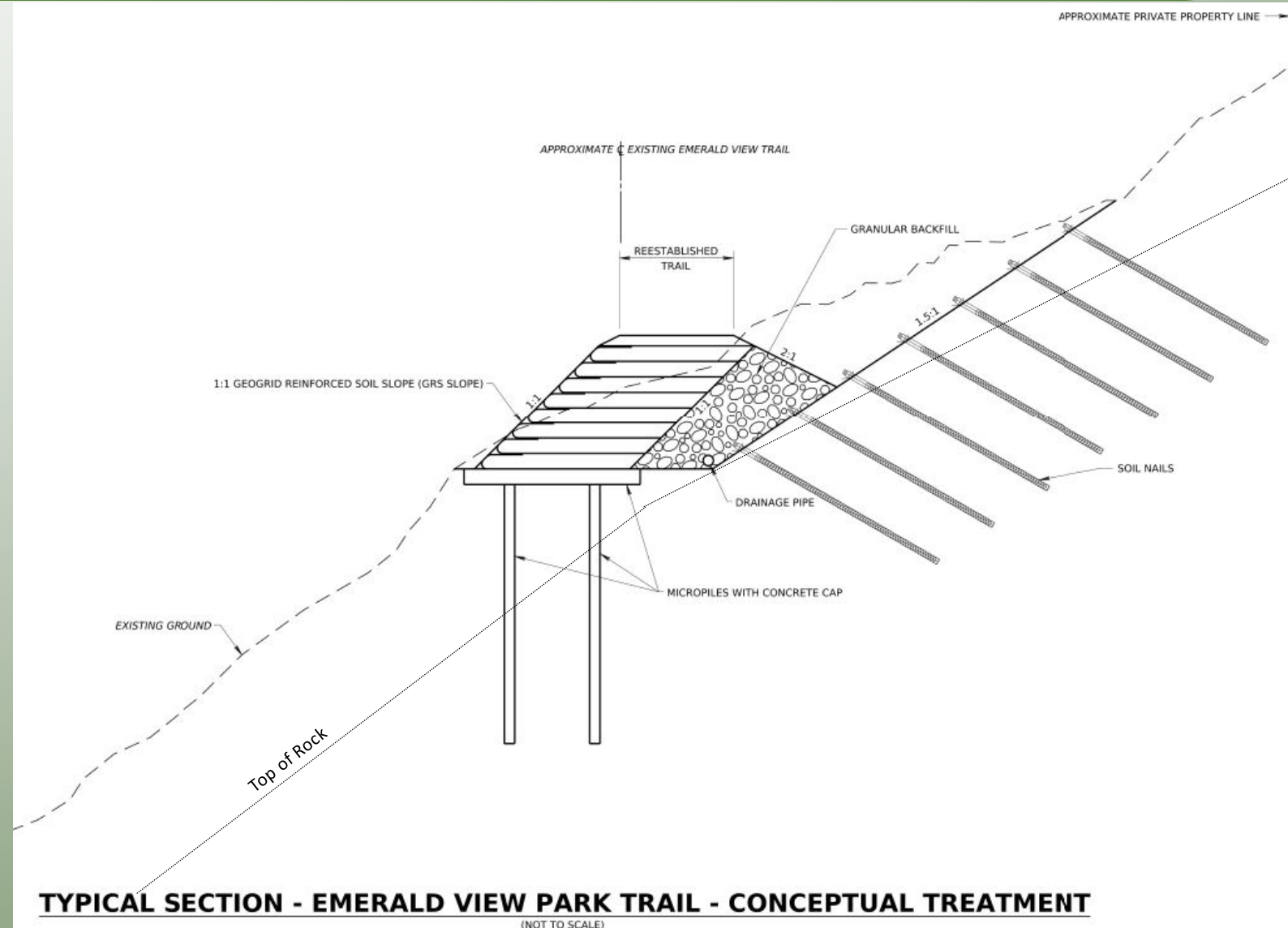
Rock buttress



Trail Treatment



Remove slide-prone soils
Stabilize slope above trail
Re-establish trail grade

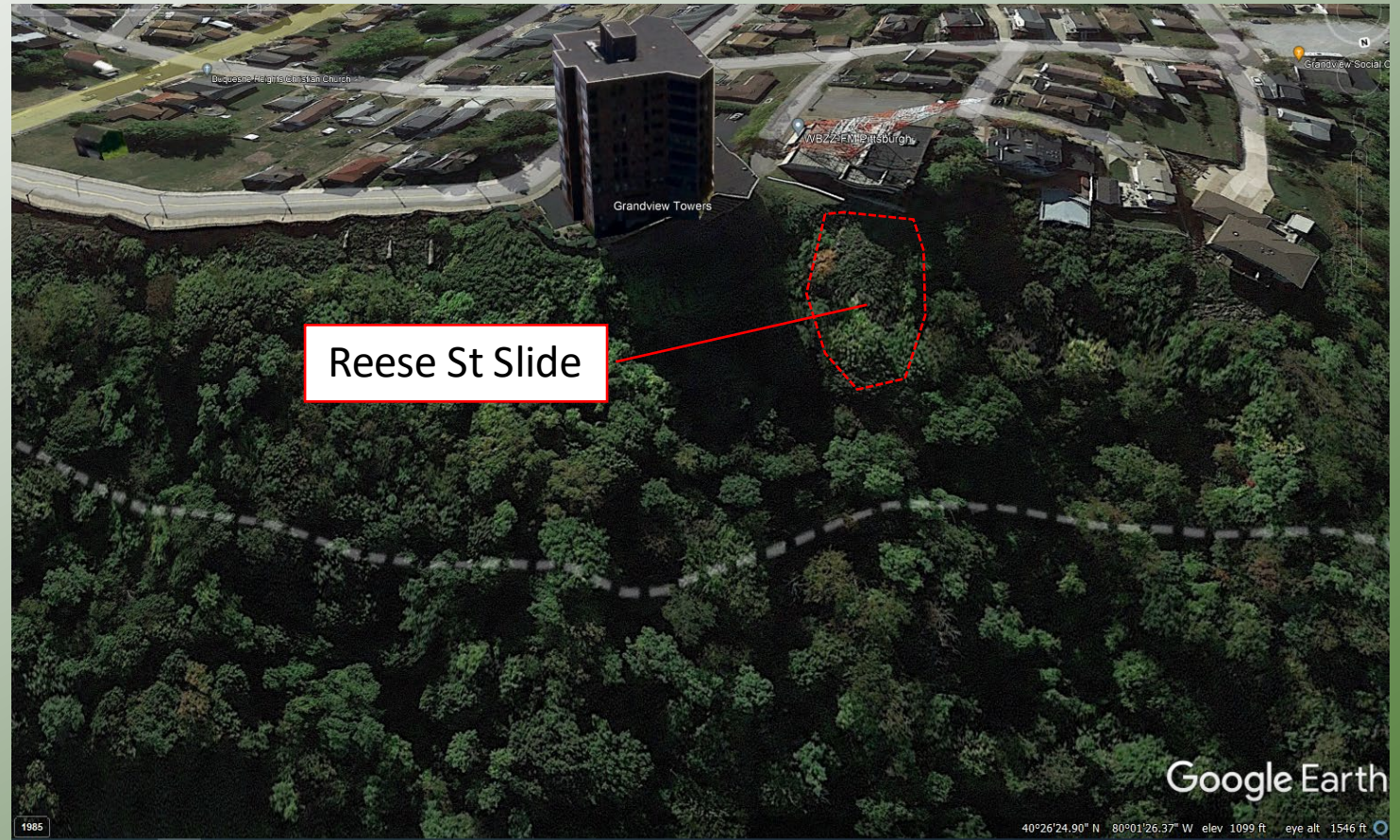


Reese Street



2011 - Failure

- Wall Constructed - supports tower
- Slide below continues to move
- Encroaching on Emerald Park trail
- Potential Rockfall/slide debris to impact Trail and infrastructure at base of Mt Washington



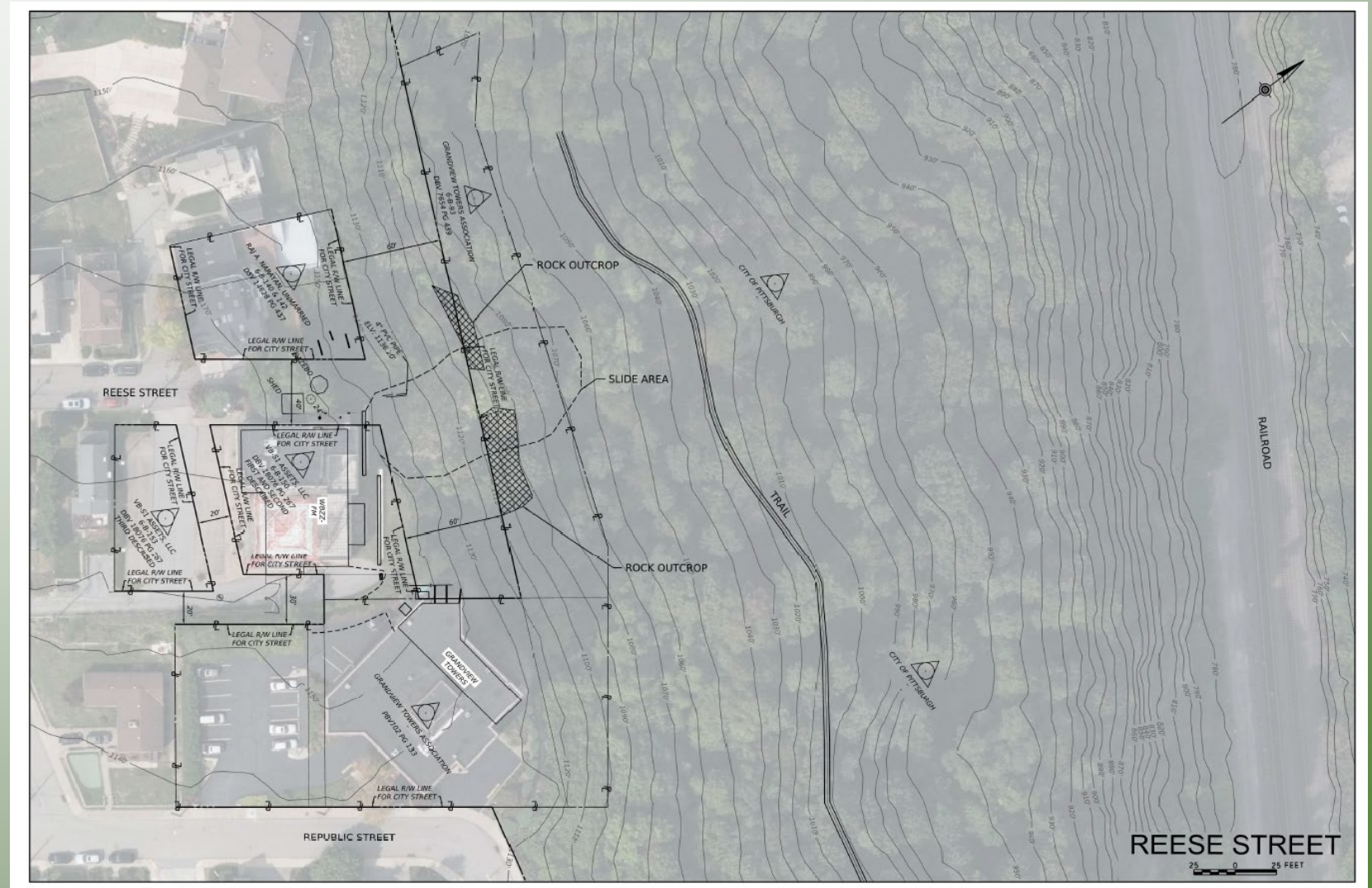
Current Site Conditions



Reese St. Site Plan



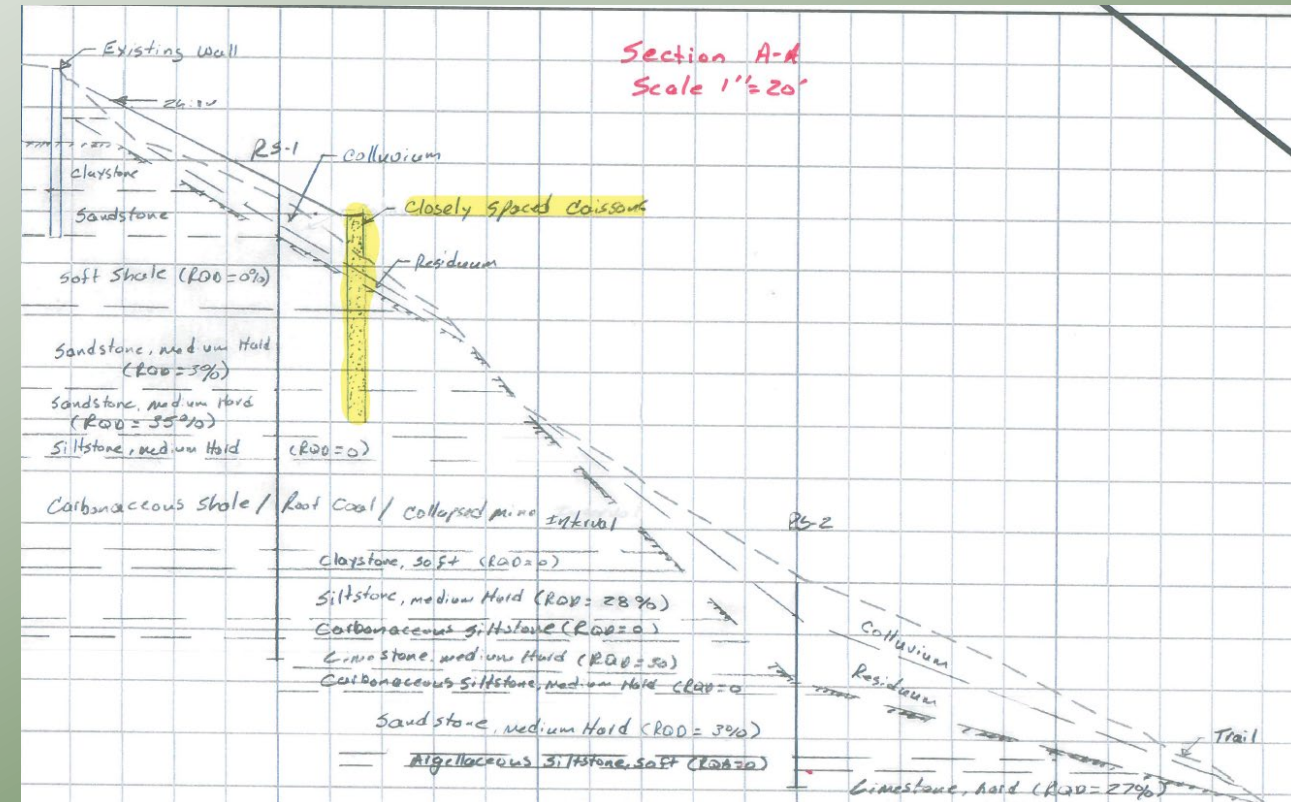
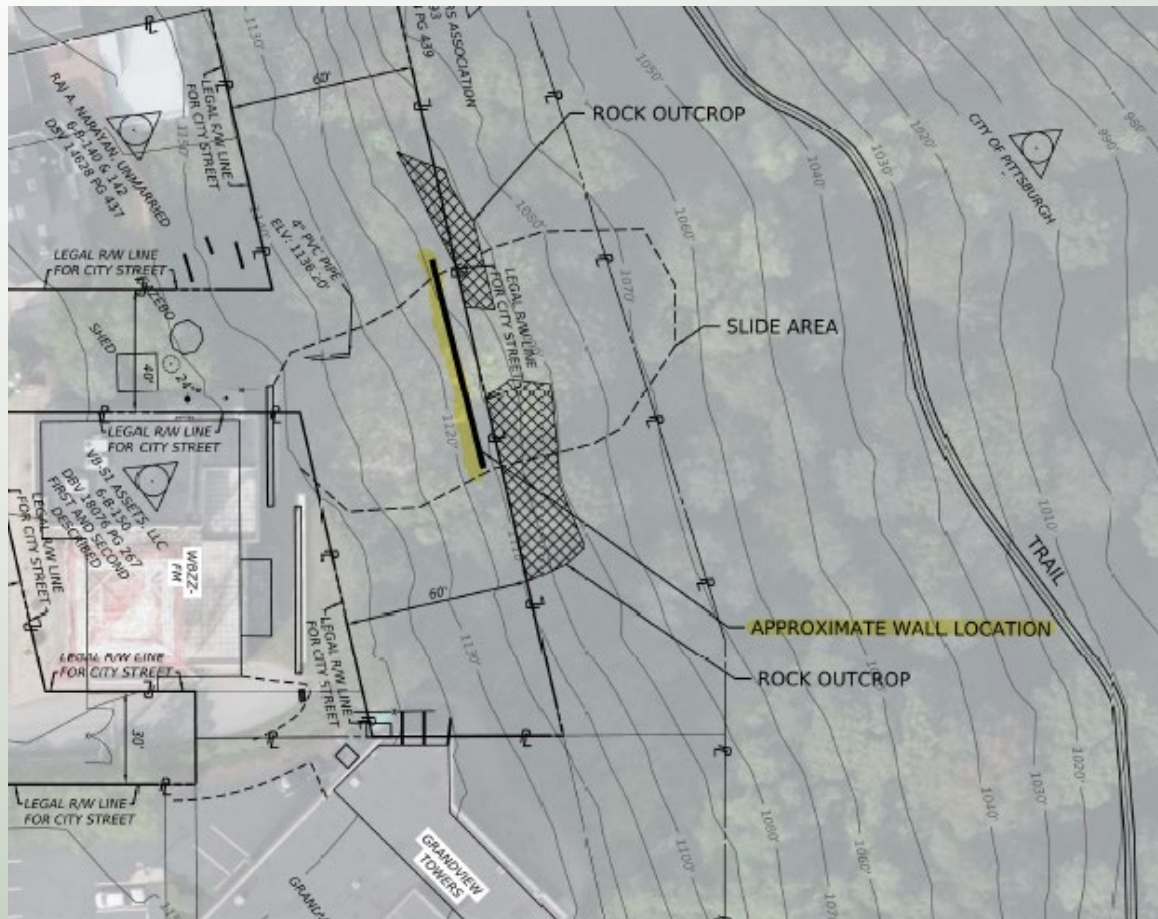
- Slide Location
- Rock Outcrop
- Trail Location
- Existing Wall
- Adjacent Properties



Reese St. Mitigation Concepts



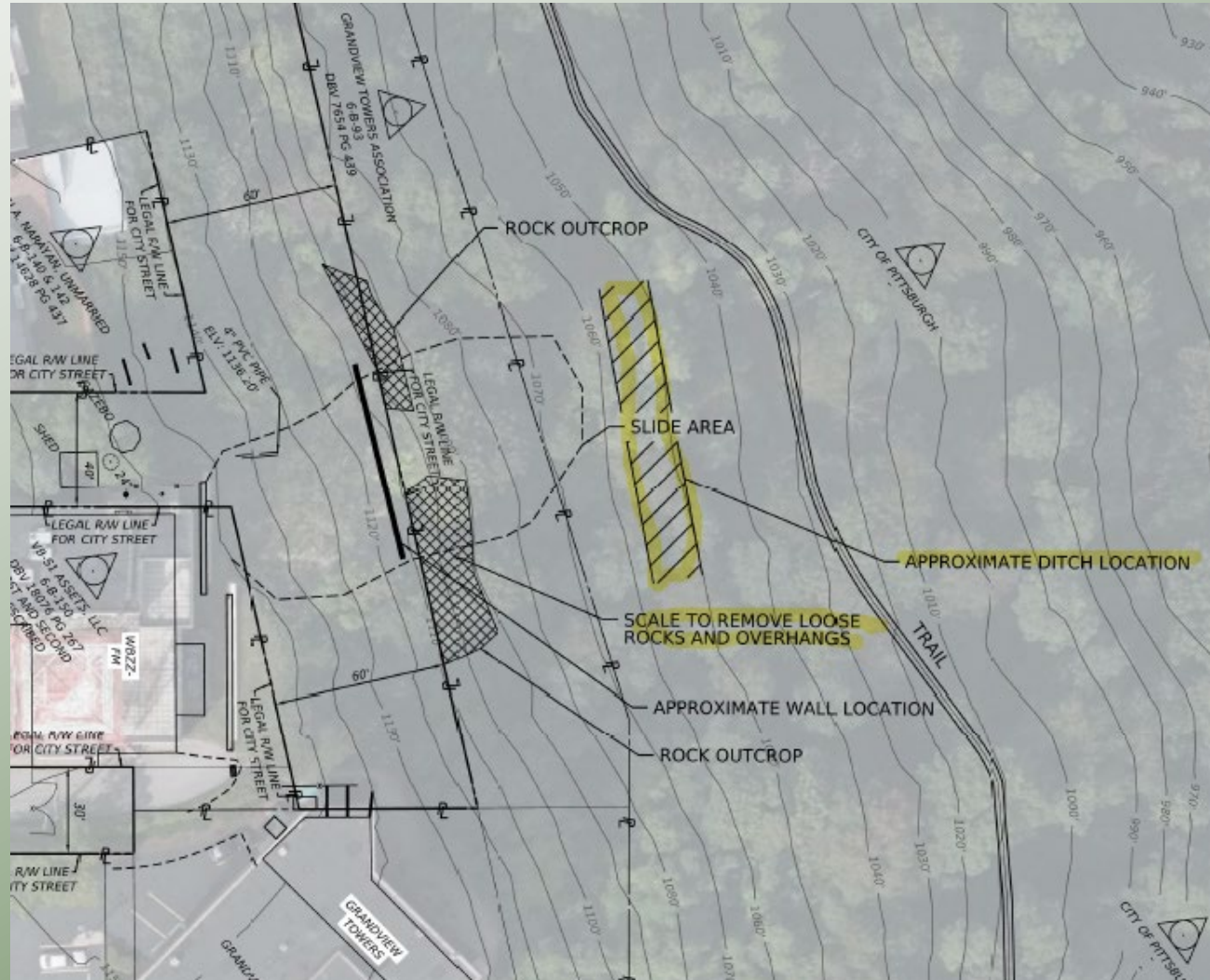
- New Caisson Wall



Reese St. –Mitigation Concepts



- Scale (remove) Loose Rocks
- Install Rockfall Ditch



Next Steps



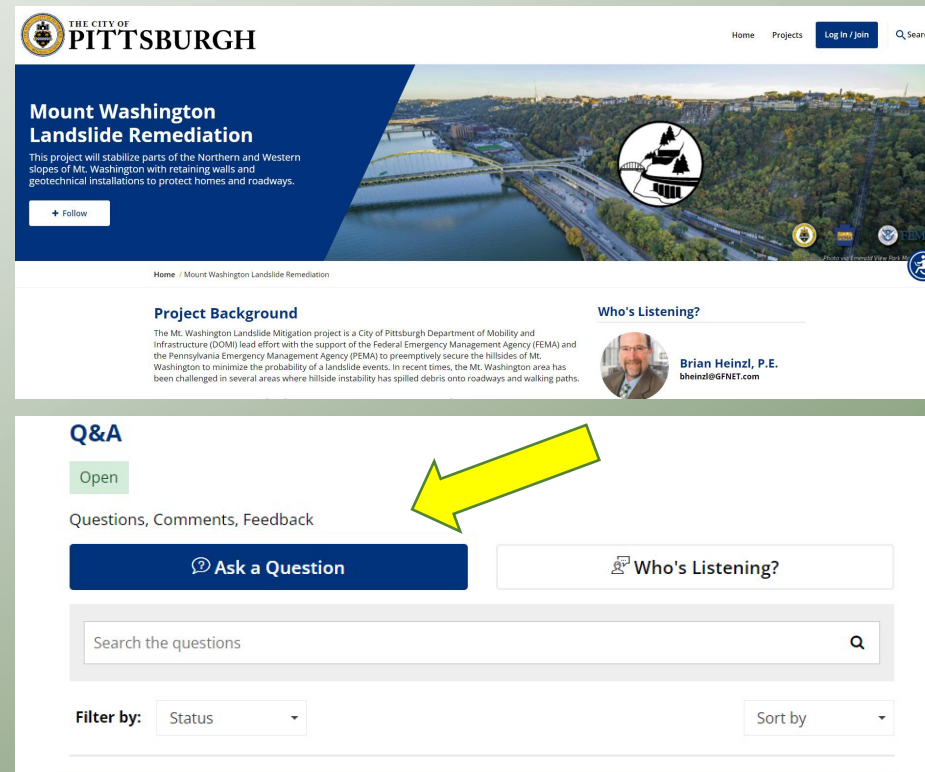
- Field Surveying
- Soil Drilling
- Further develop design concepts
- Briefing with City Council and officials
- Finalize Mitigation Plan Design
- Public Meeting to preview mitigation approach/designs

Public Engagement; *How You Can Stay Informed*



**Meeting #2
tentatively
scheduled for
August 2022**

**EngagePgh Website -
[engage.pittsburghpa.gov/
mount-washington-landslide-
remediation](https://engage.pittsburghpa.gov/mount-washington-landslide-remediation)**



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Questions and Answers