

Ashokan Rail Trail Feasibility Study

November 22nd, 2021



Agenda

- **Study Goals, Benefits, and Vision (OSI)**
 - West of Hudson Greenway Trails Vision
 - Ulster County Trails
 - City of Kingston Greenline
- **Study Process (GPI)**
 - Inventory of Assets
 - Alternatives
 - Rail with Trail
 - Trail only
 - Connectivity and Opportunities
 - Costs
- **Next Steps**

Study Goals, Benefits and Vision

The **Goals** of this study are threefold.

- To extend OSI's commitment to making access to nature and open spaces more available and welcoming
- To increase the diversity of trail users that benefit from trails
- To modernize trail designs and react to the changing needs of the communities they connect

The main **Objectives** of this study is to provide the County with:

- A physical inventory of current corridor conditions
- An engineering assessment of dual and single-use alternatives including cost estimates
- Other relevant constraints and opportunities that impact development of the corridor

**All to support the County's future assessment of the
current Ulster & Delaware Corridor Rail & Trail Use Policy**

West of Hudson Greenway Trails

(3 Counties, 6 Rail Trails, 250+ miles)

Greenway Trail



Empire State Trail

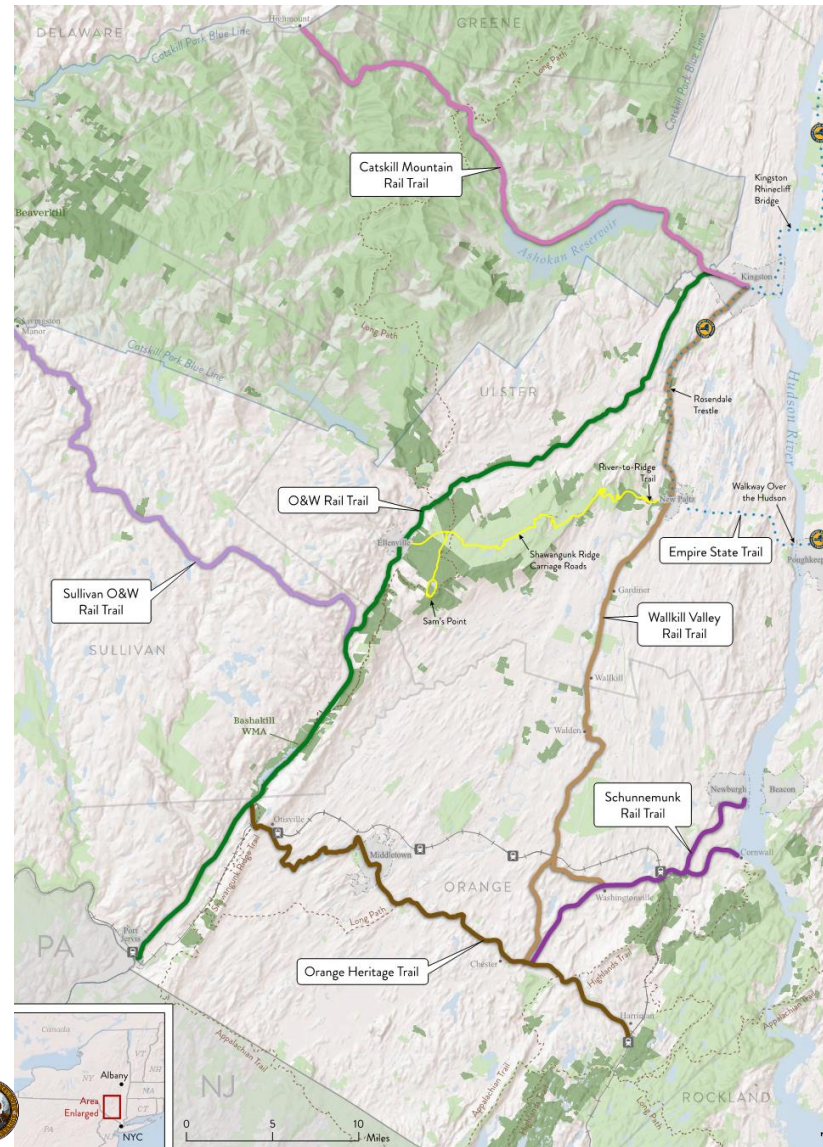
Other Trail



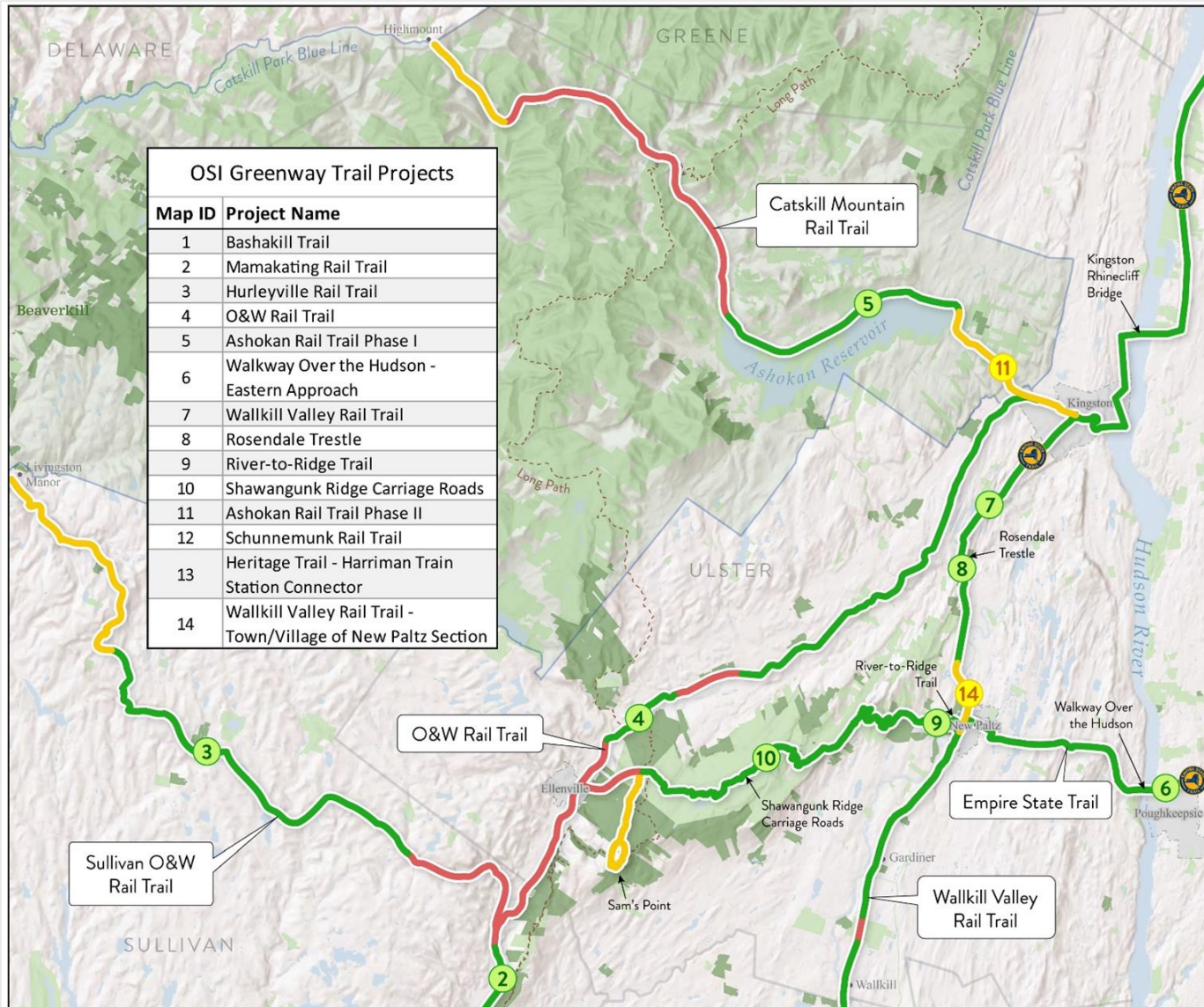
Commuter Rail Line
(Hoboken, NJ to Port Jervis, NY)

OSI-Protected Land

Other Protected Land



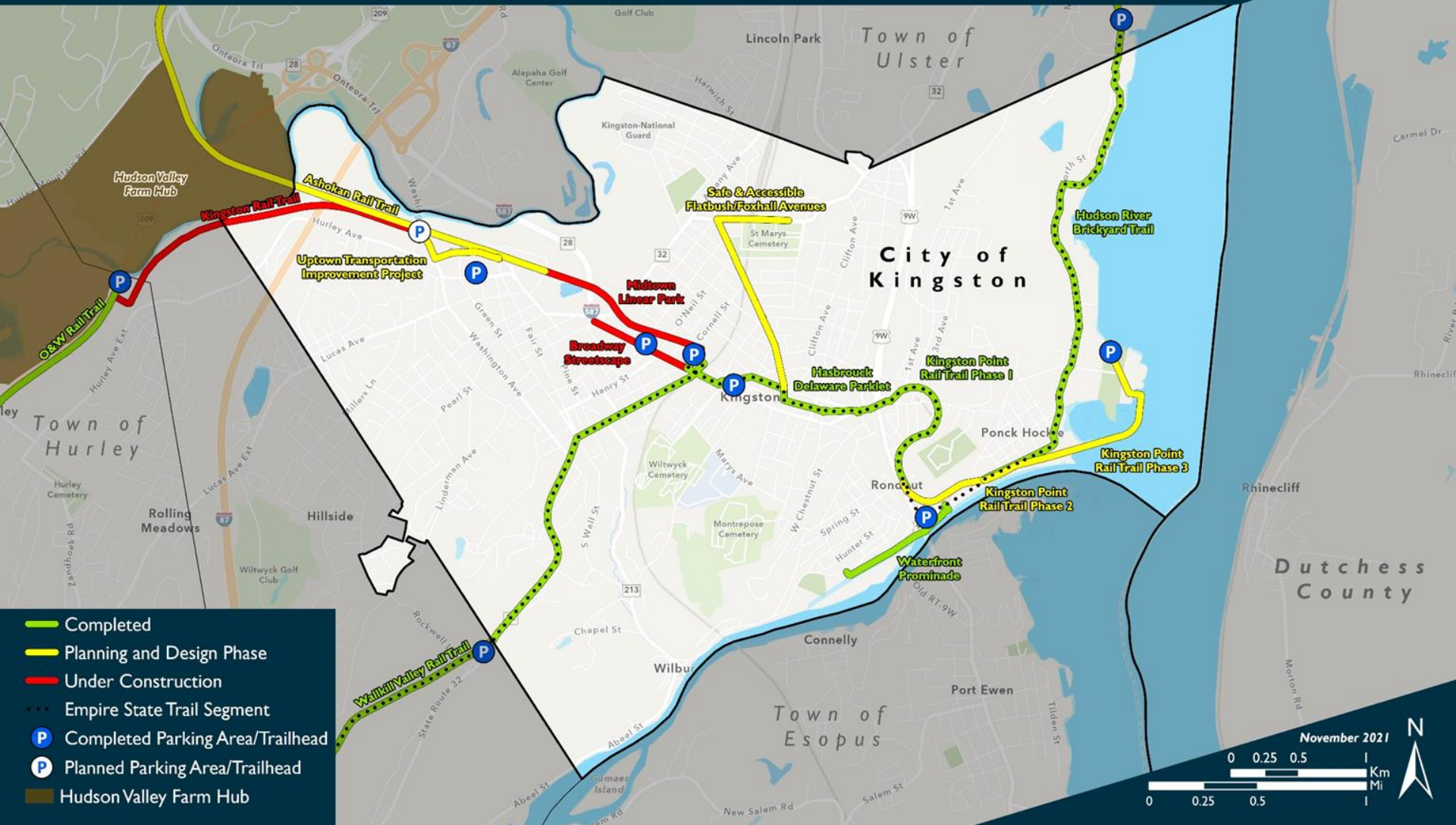
Ulster County Greenway Trails





City of Kingston Pedestrian & Bike Connections

Ulster County, New York



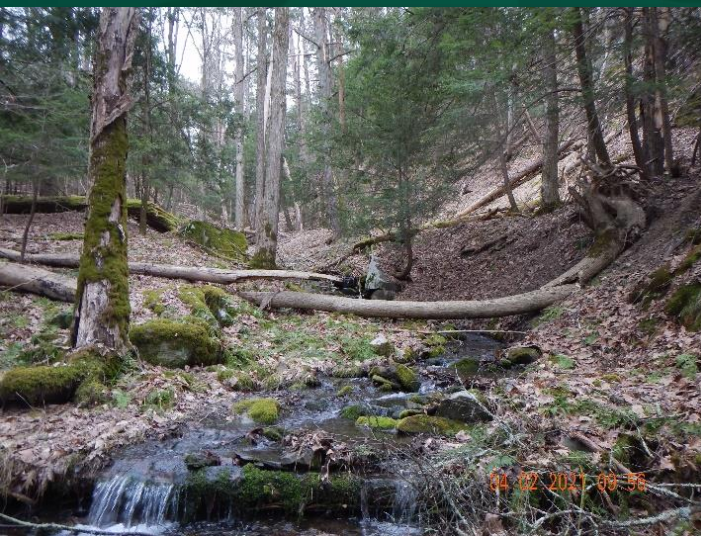
Inventory

- **Site Inspections of Corridor Conducted in Spring of 2021**
 - Railroad Bed Conditions
 - Cuts/Fills
 - Rock Cuts & Steep Slopes
 - Drainage Patterns and Culverts
 - ROW and Width
 - Bridges / Structures
 - At-Grade Road Crossings
 - AADT & Sight Distances
 - Other Environmental Constraints i.e. Wetlands
 - Trailhead Opportunities
 - Connections

Conditions - Basin Road to NY-28A



Conditions - NY-28A to Hurley Mt. Road



Conditions -Hurley Mt. Road to Kingston



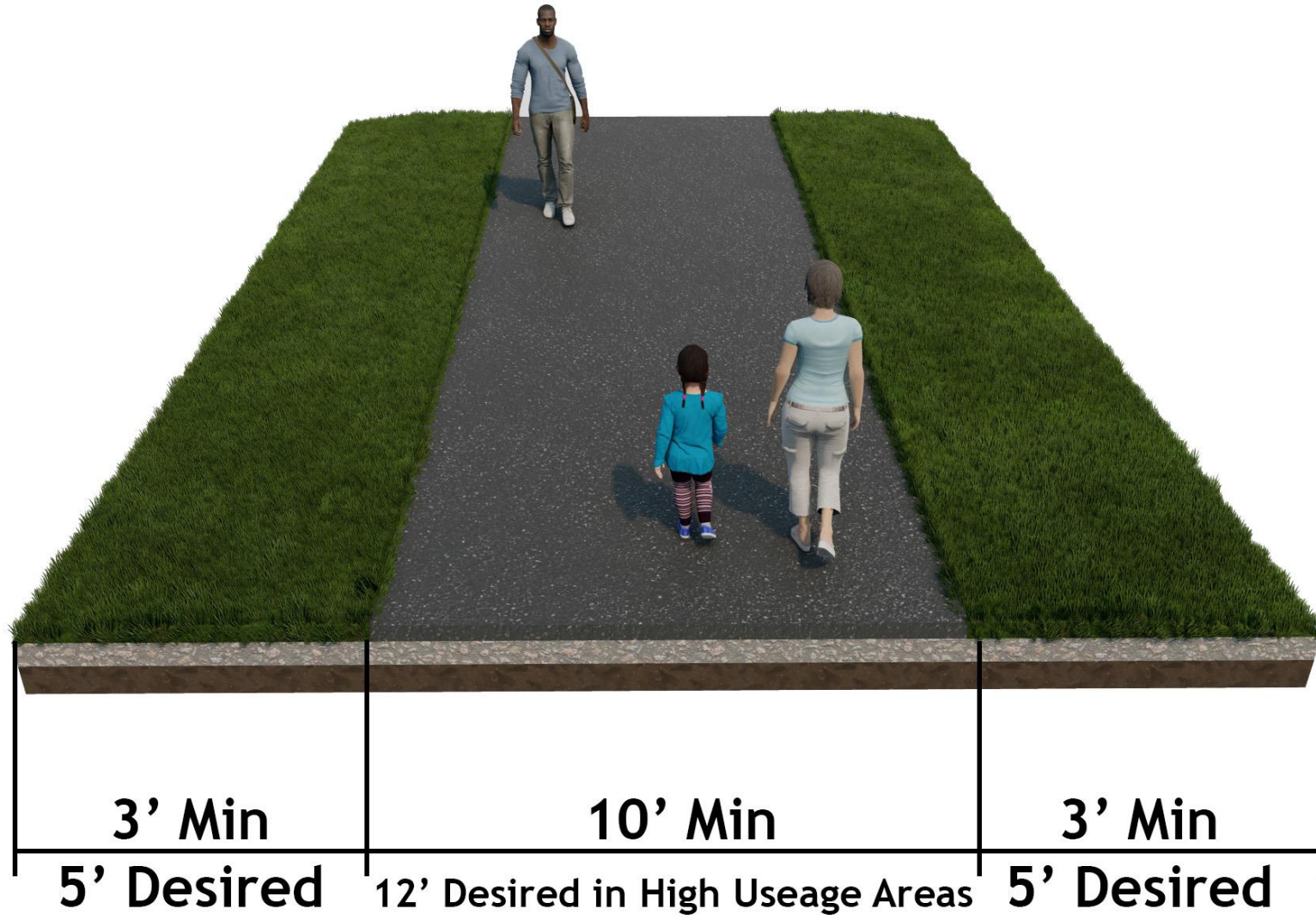
Conditions - At-Grade Road Crossings



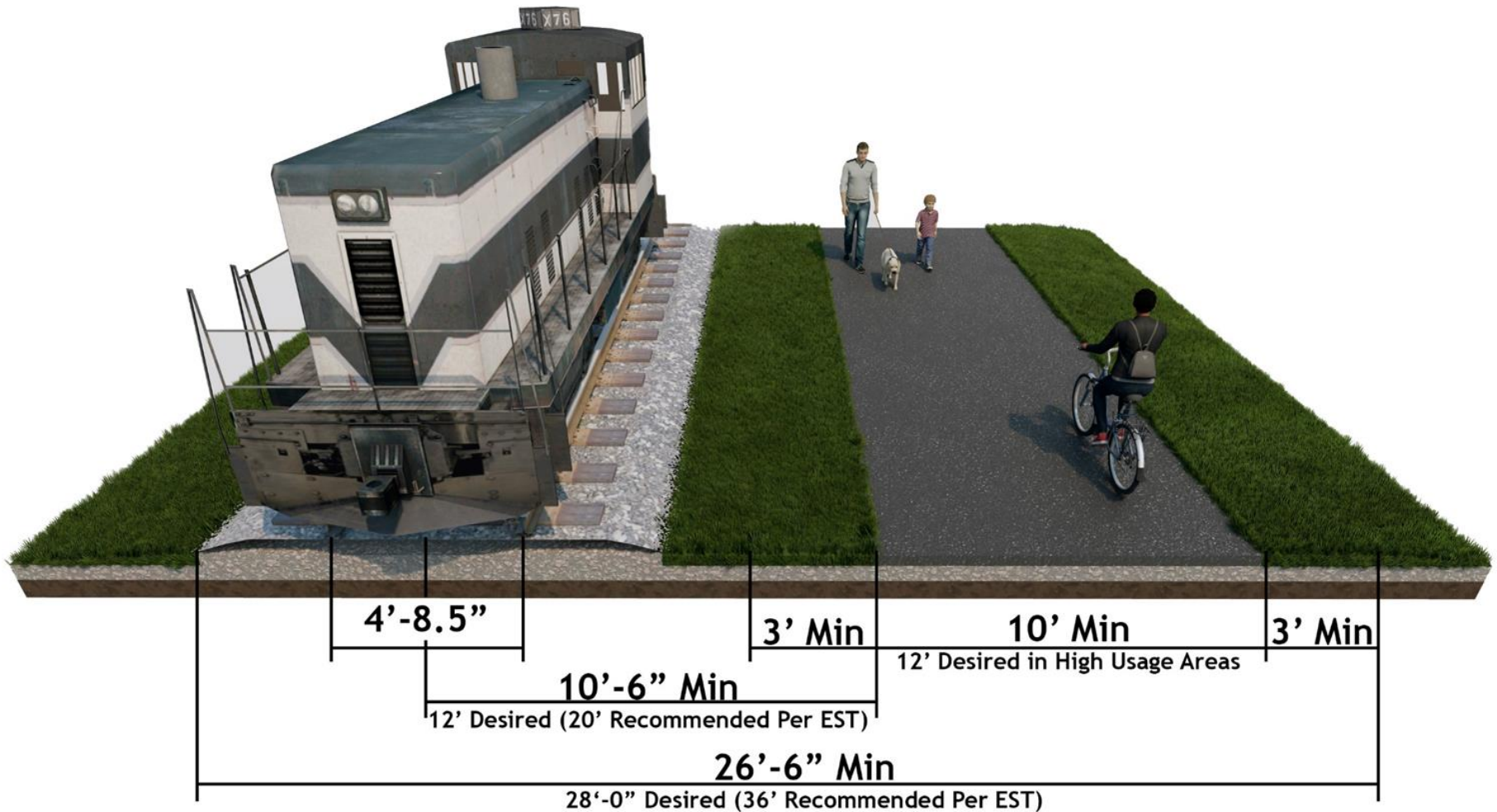
Conditions - Bridges



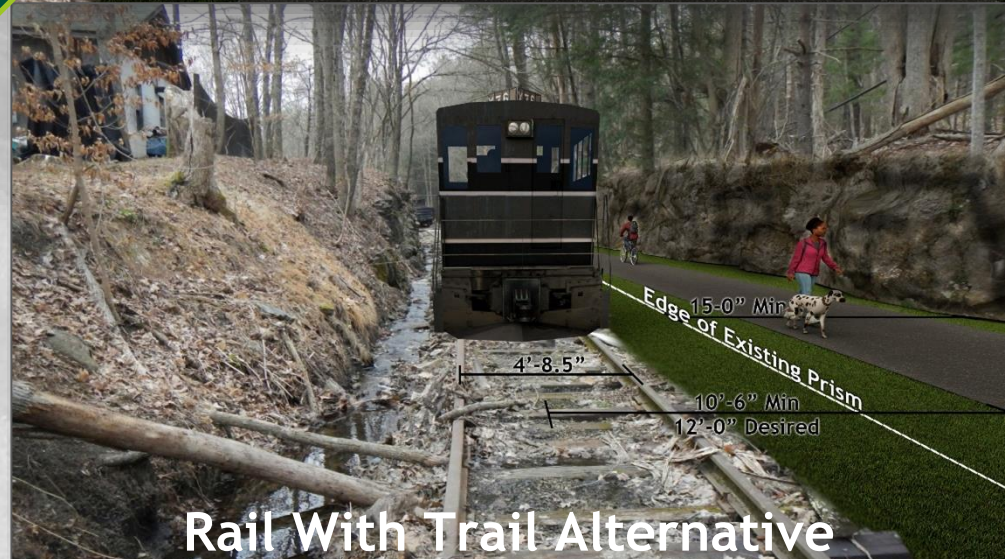
Typical Section - Trail only



Typical Section - Rail With Trail



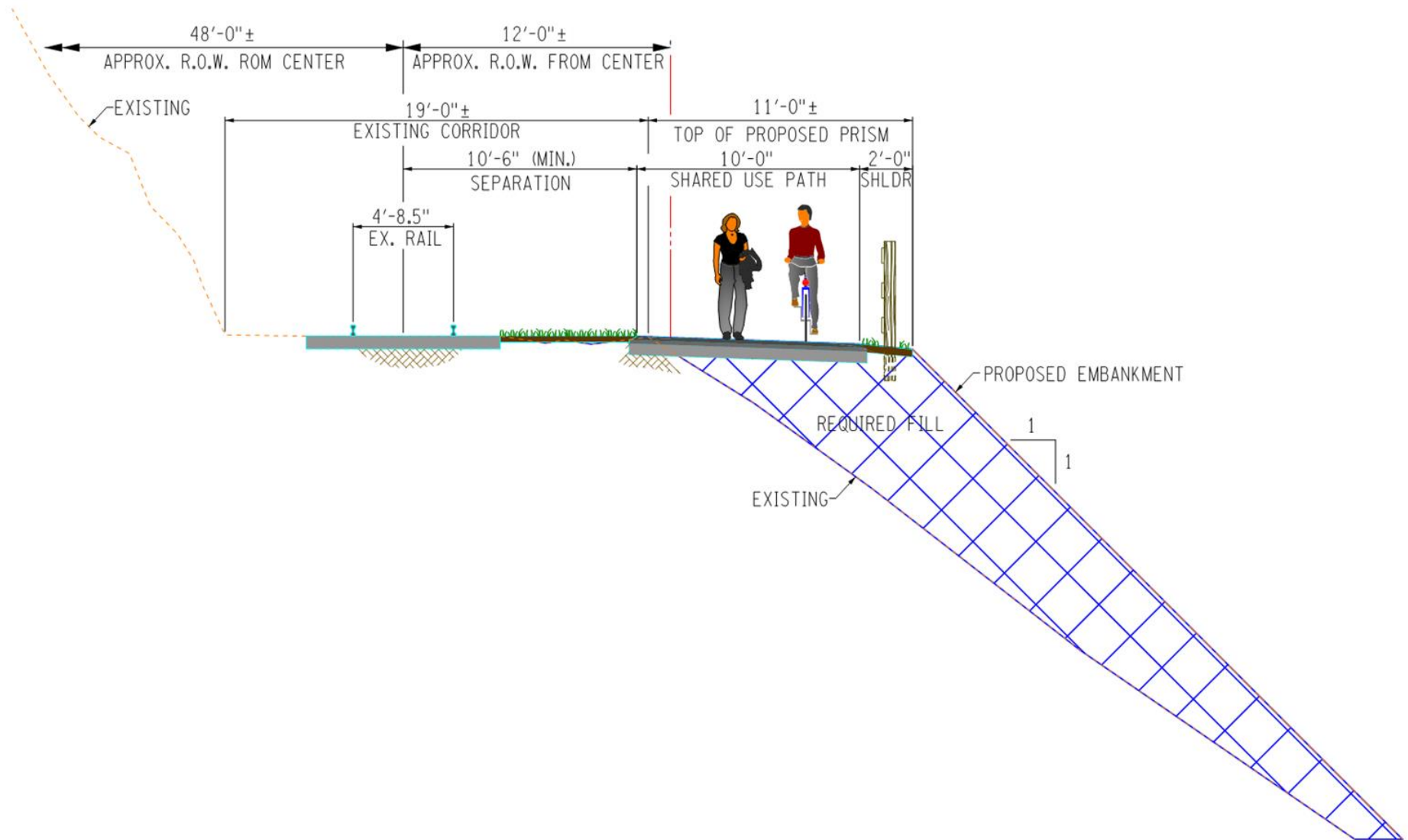
Trail Typical Section #1



Trail Typical Section #1



Typical Section #2 Rail With Trail Impacts



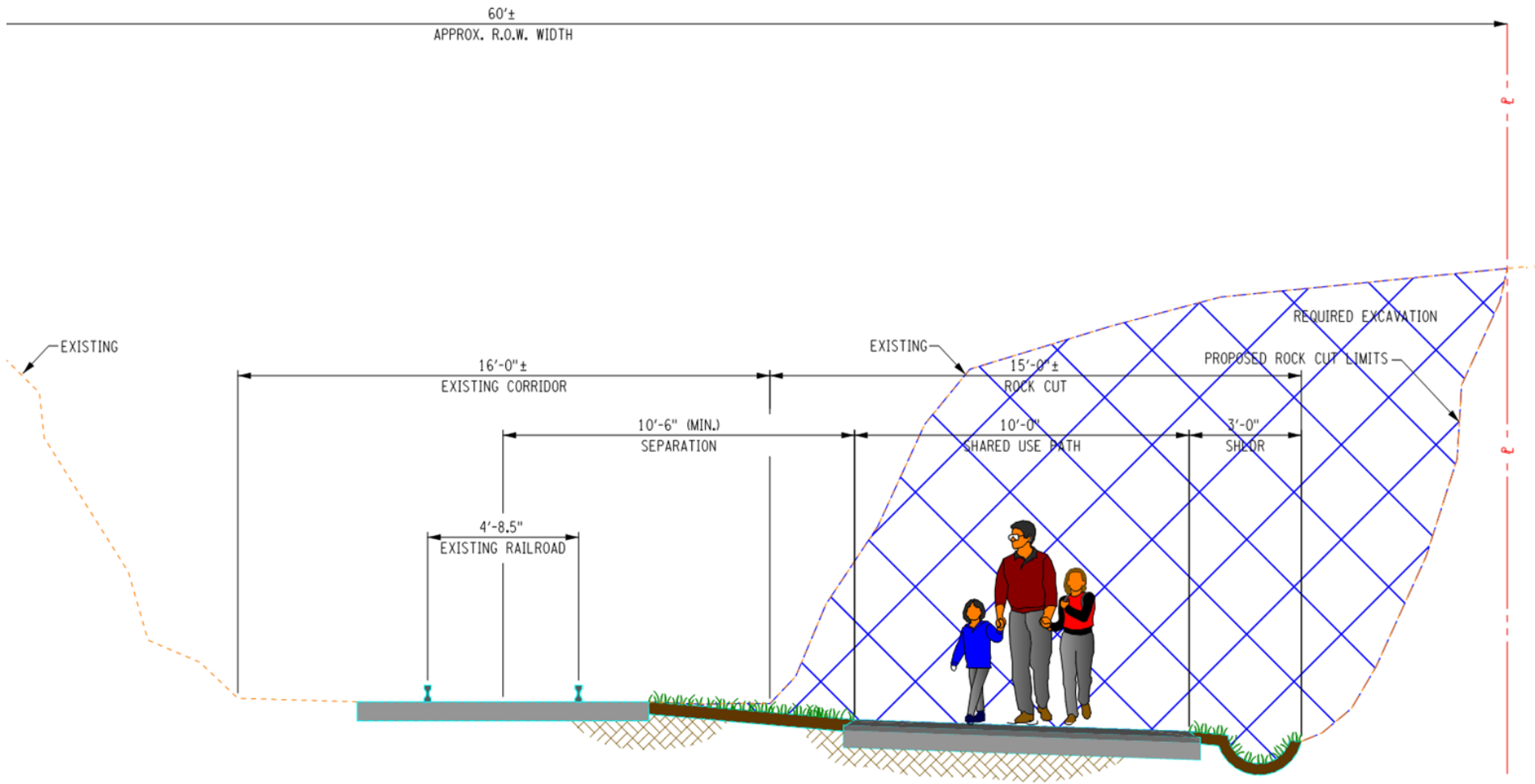
Trail Typical Section #2



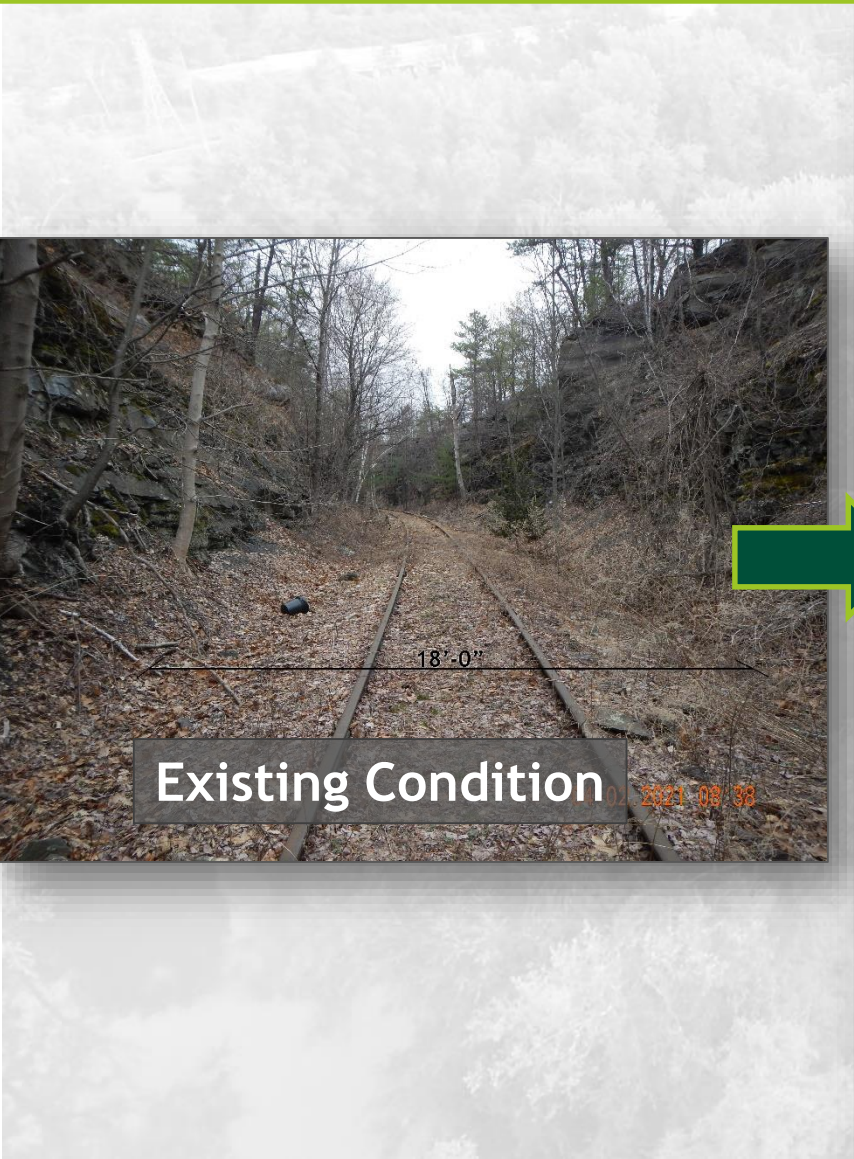
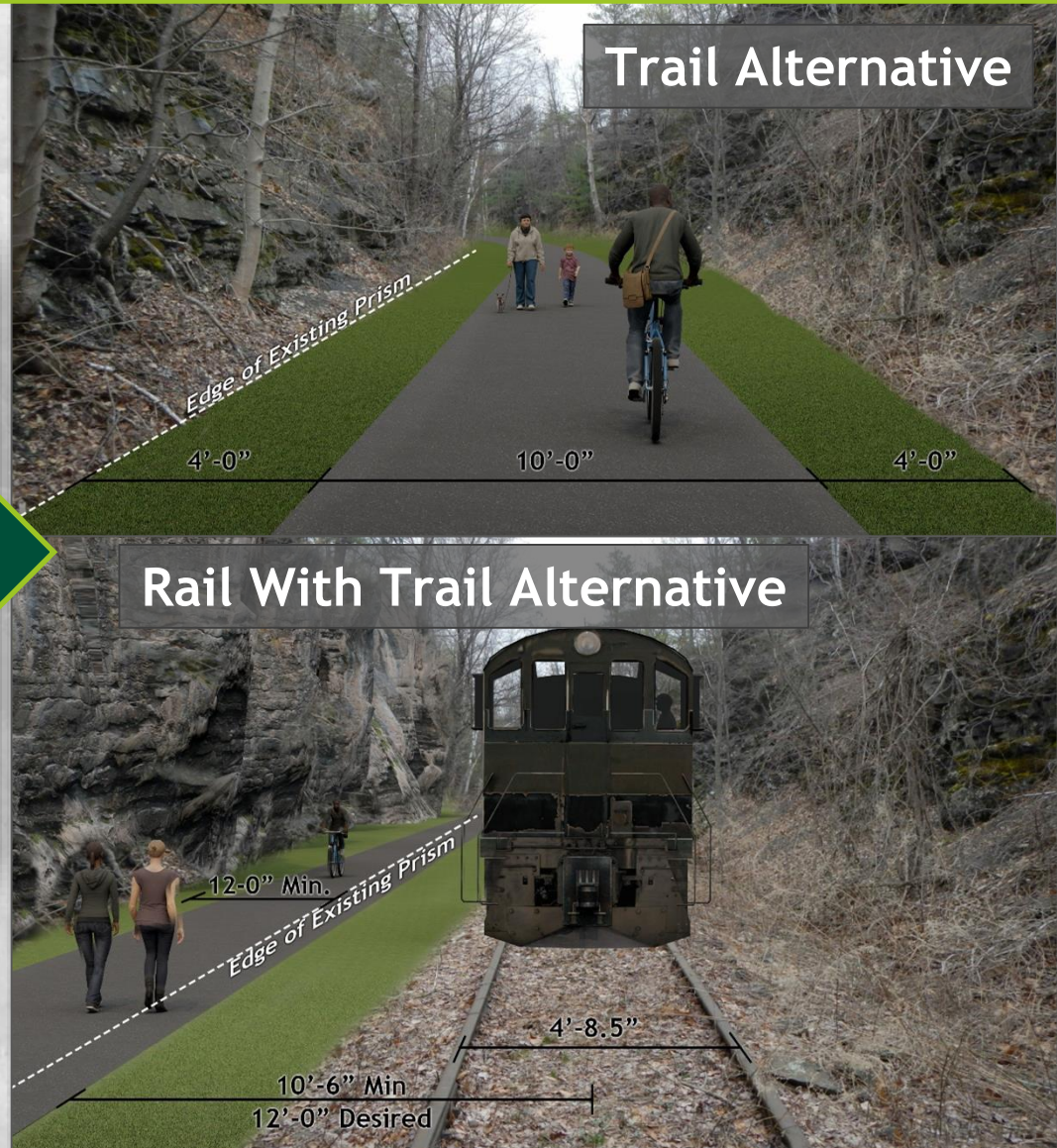
Trail Typical Section #2



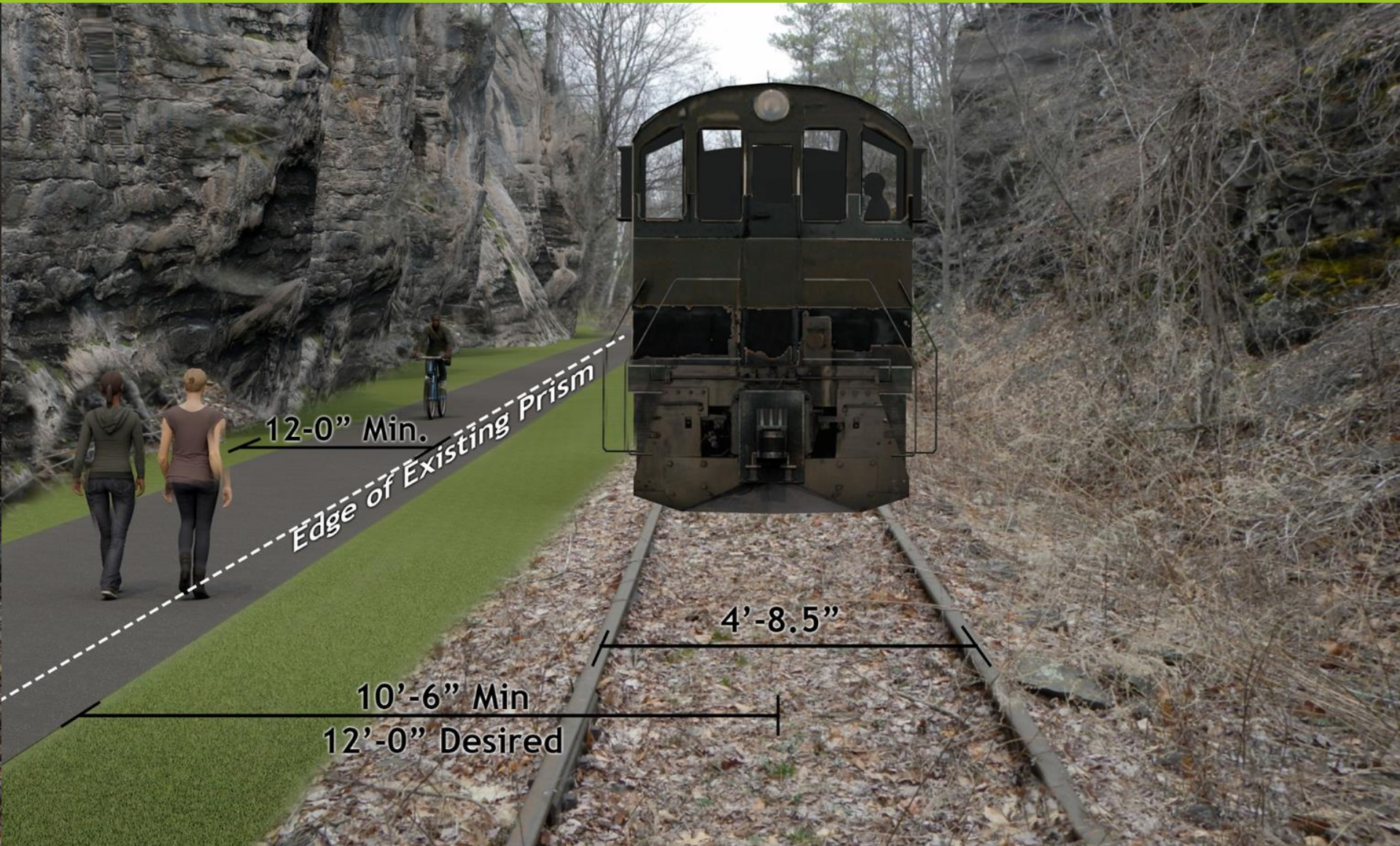
Typical Section #3 Rail With Trail Impacts



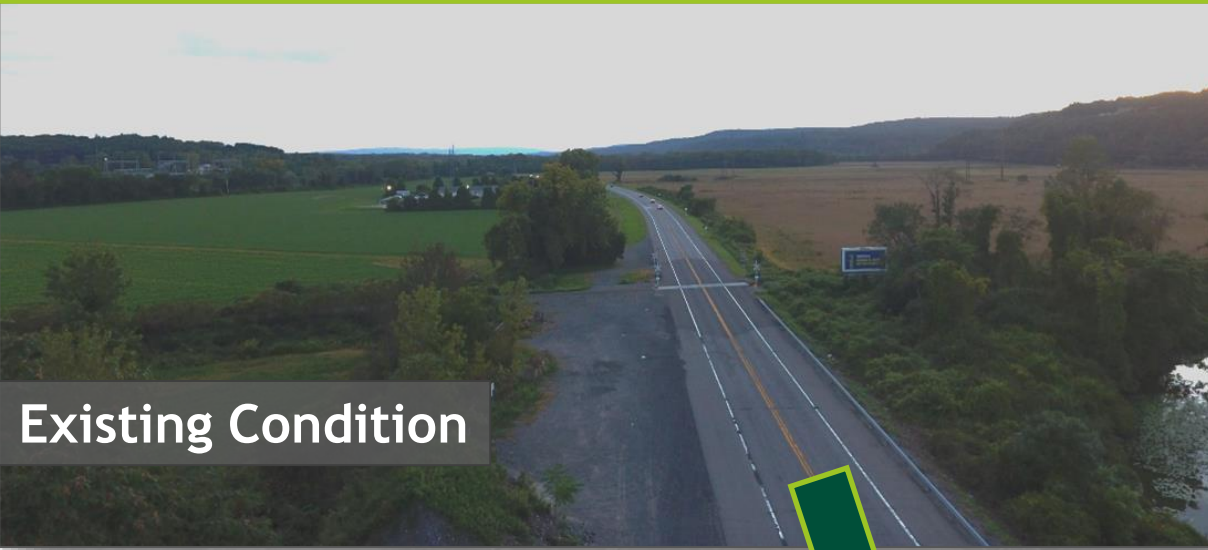
Trail Typical Section #3



Trail Typical Section #3



US-209 Pedestrian Bridge



Existing Condition



Proposed Pedestrian Bridge

US-209 Pedestrian Bridge



C-9 Bridge Over the Esopus Creek



Existing Condition



Proposed Pedestrian Bridge

C-9 Bridge Over the Esopus Creek



12'-0"

C-9 Bridge Over the Esopus Creek



C-9 Bridge Over the Esopus Creek



Uptown Kingston Connection



Uptown Kingston Connection



Ashokan Rail Trail Feasibility Study

NY-28A Crossing & Trailhead Concept

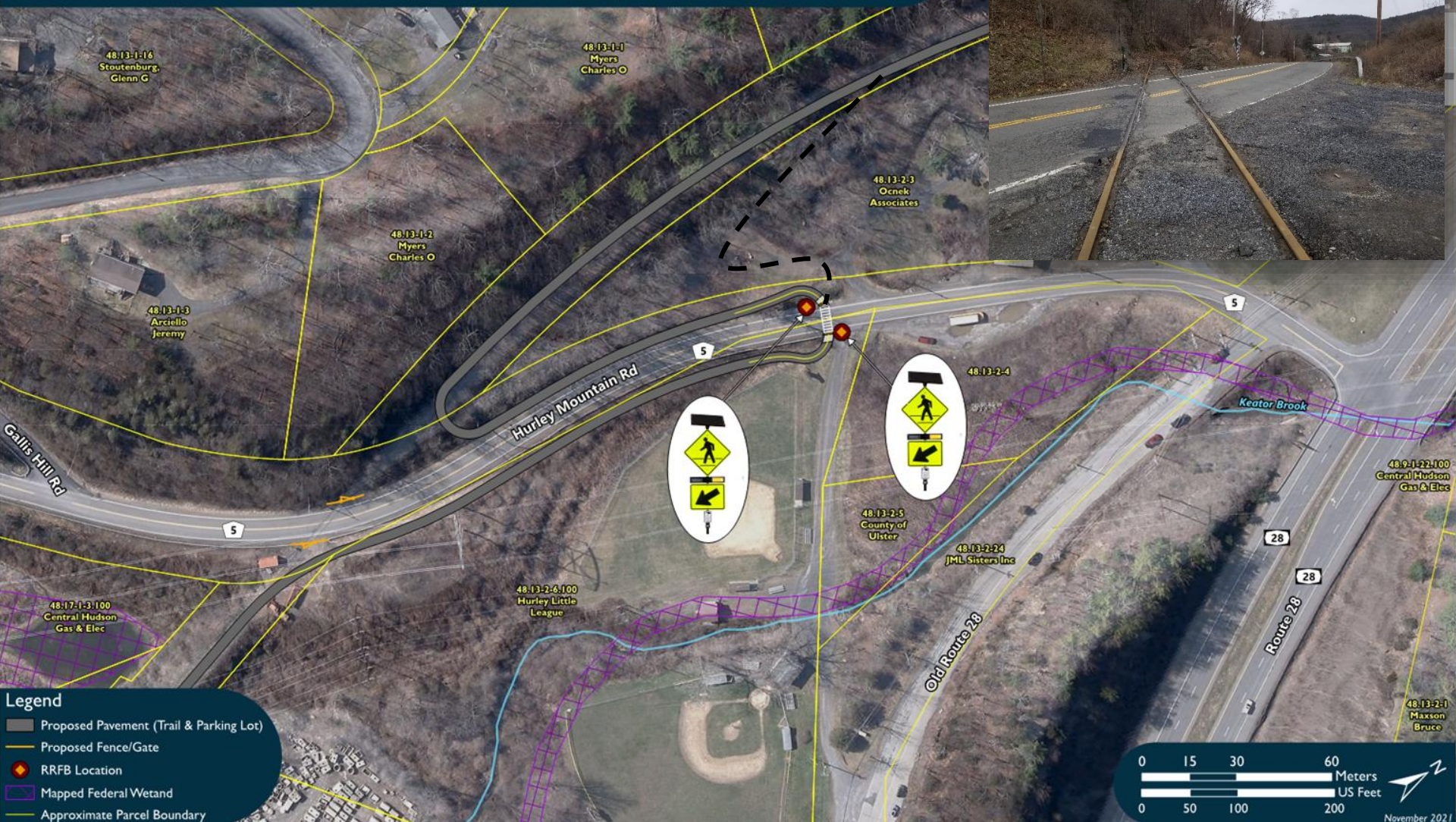
OPEN SPACE
INSTITUTE





Ashokan Rail Trail Feasibility Study

Hurley Mountain Rd (CR-5) Crossing & Trailhead Concept

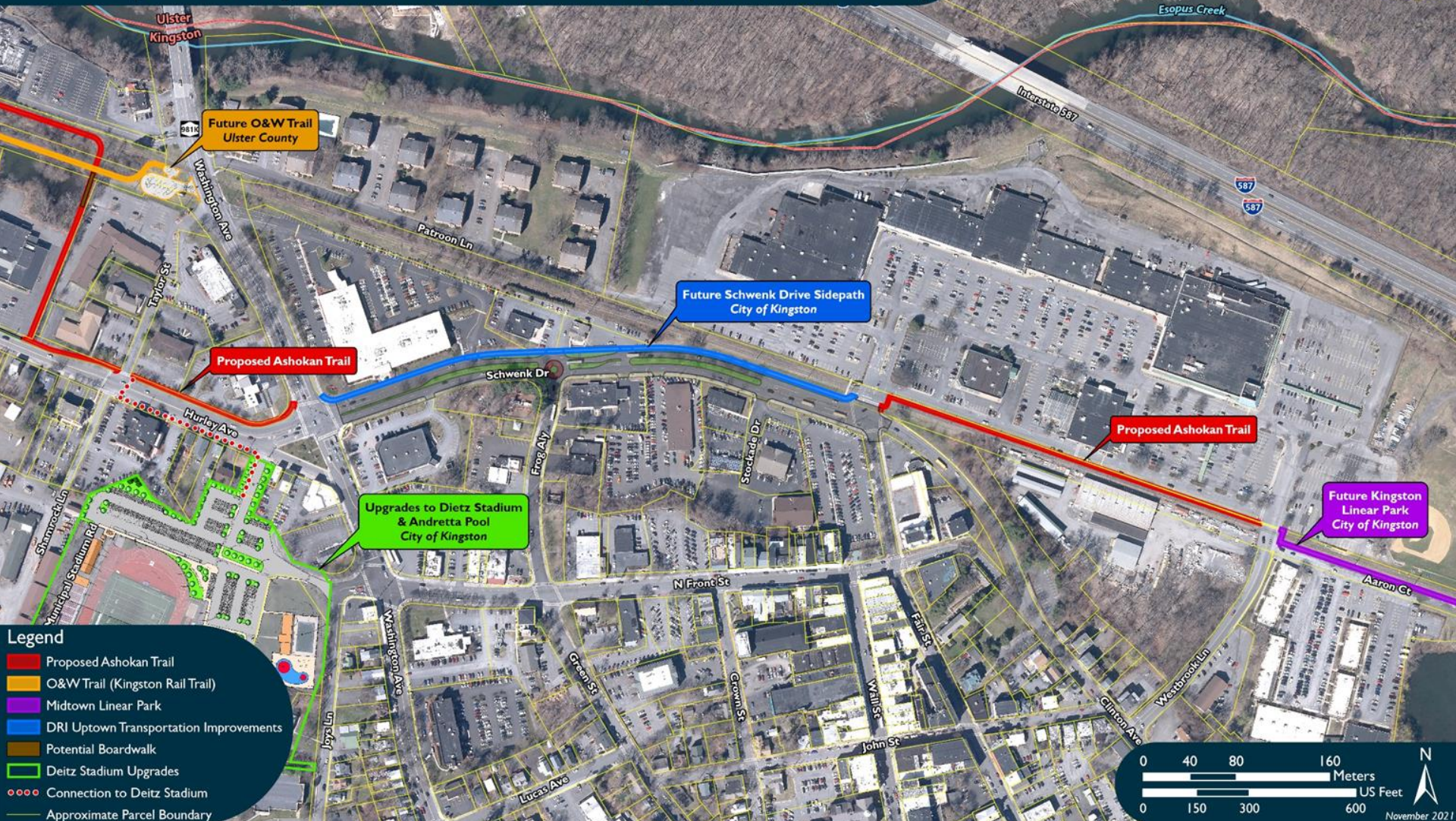




OPEN SPACE
INSTITUTE

Ashokan Rail Trail Feasibility Study

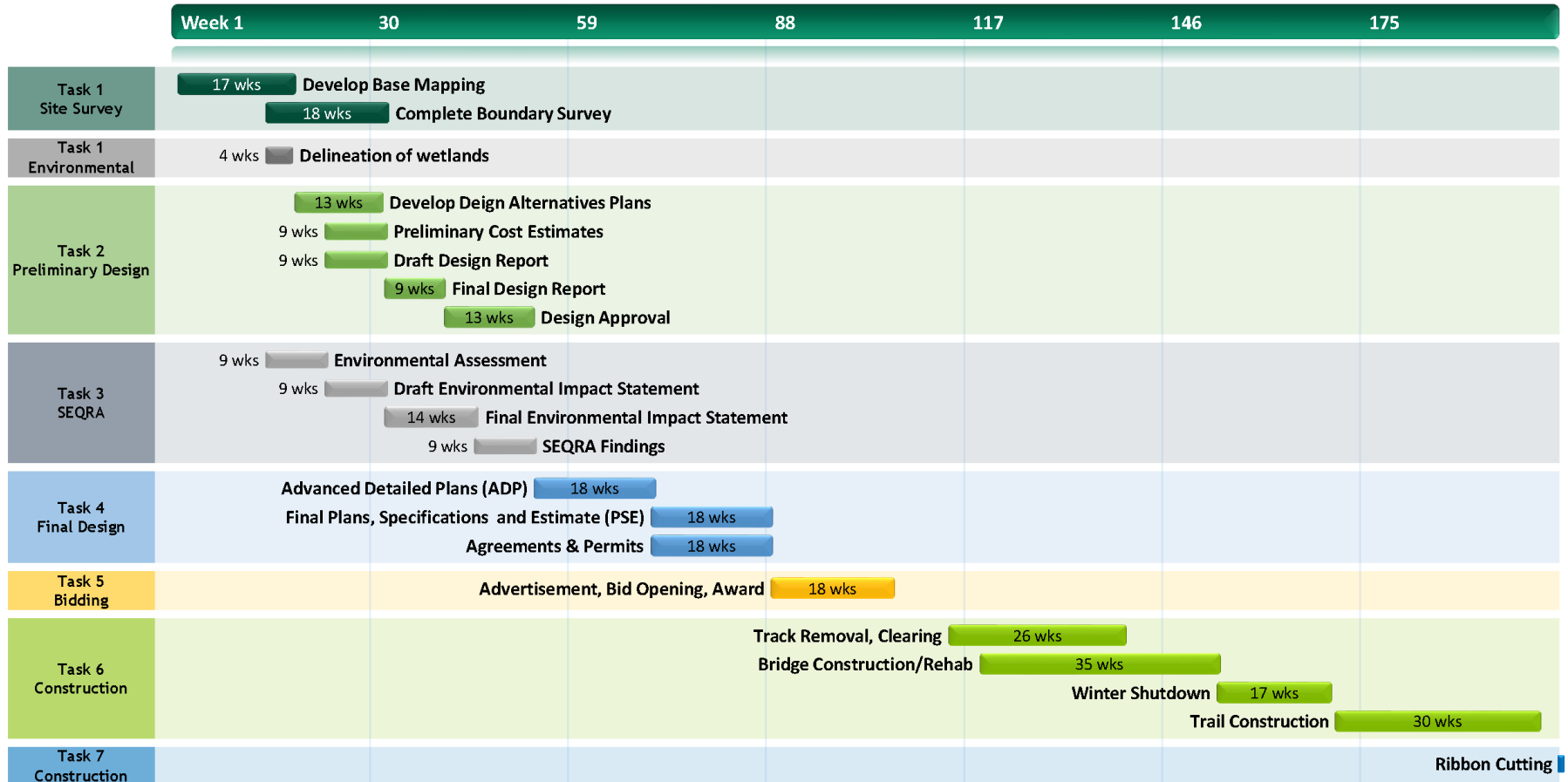
Uptown Kingston Connections Concept (Shared Use Path)



(DRAFT) Order of Magnitude Cost Estimate

<u>Construction</u>	<u>Trail Only</u>	<u>Rail with Trail</u>
▶ Site Preparation		
▶ Clearing and Grubbing	\$230,000	\$610,000
▶ Track Removal	\$750,000	\$0
▶ Bridges		
▶ Esopus (C-9) Bridge	\$750,000	\$2,000,000
▶ Others	\$250,000	\$1,000,000
▶ Drainage	\$500,000	\$1,000,000
▶ Roadway Crossings	\$250,000	\$250,000
▶ Route 209 Bridge	\$2,500,000	\$2,500,000
▶ Trail		
▶ Earthwork	\$500,000	\$7,400,000
▶ Subbase	\$440,000	\$440,000
▶ Trail Surface	\$1,000,000	\$1,000,000
▶ Fencing	\$300,000	\$700,000
▶ Amenities	\$500,000	\$500,000
▶ Environmental Mitigation	\$100,000	\$1,000,000
▶ Mobilization and Contingencies	\$2,500,000	\$5,500,000
▶ <u>Soft Costs</u>		
▶ Survey and Boundary	\$100,000	\$1,200,000
▶ Design	\$1,570,000	\$3,580,000
▶ Construction Inspection	\$1,250,000	\$2,860,000
▶ ROW Acquisition Costs	\$0	\$500,000
▶ Total	\$13,400,000	\$33,000,000

(DRAFT) Anticipated Schedule



Next Steps

