



# SHAKER GLEN EXTENSION ECOLOGICAL RESTORATION

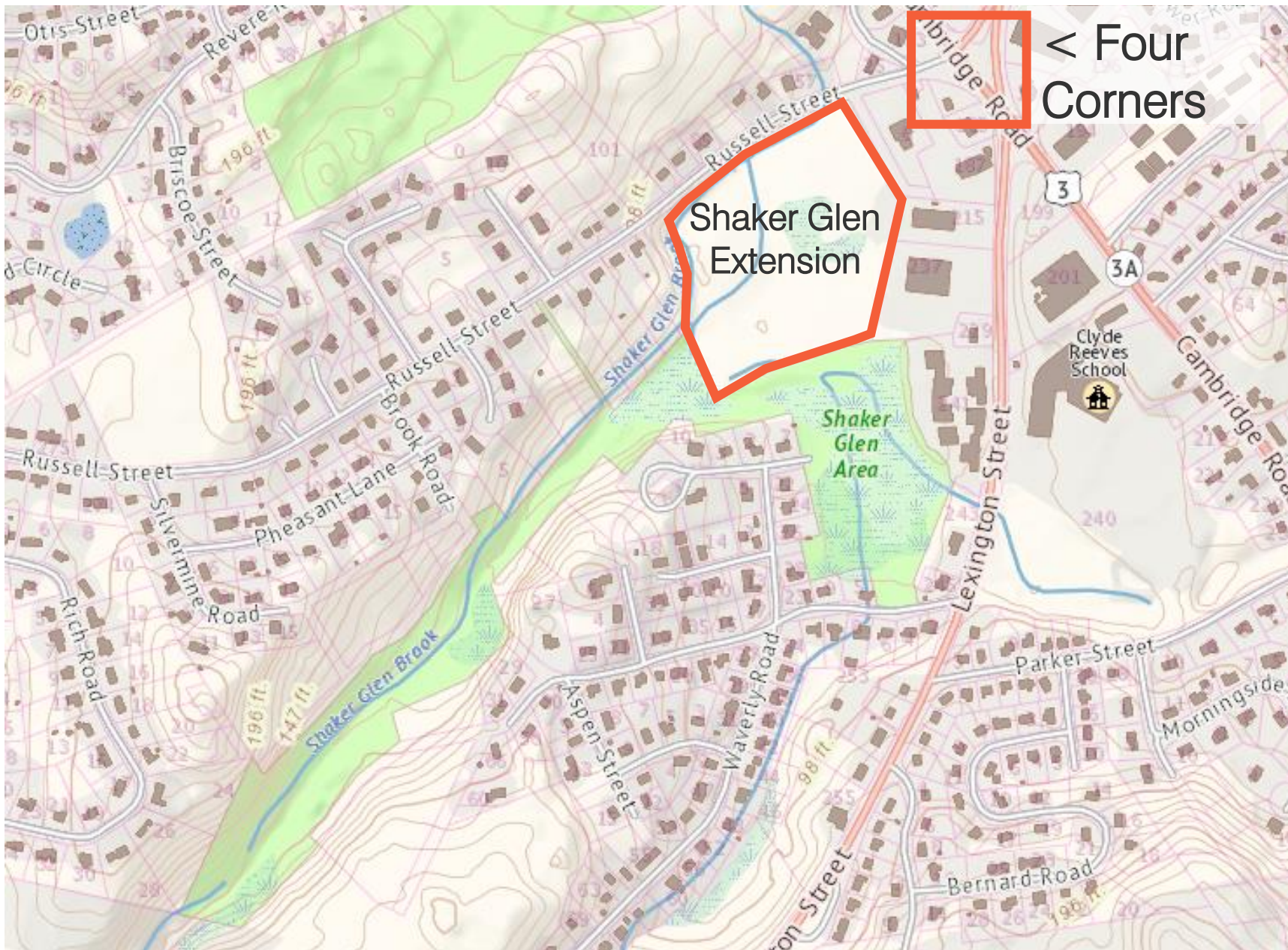




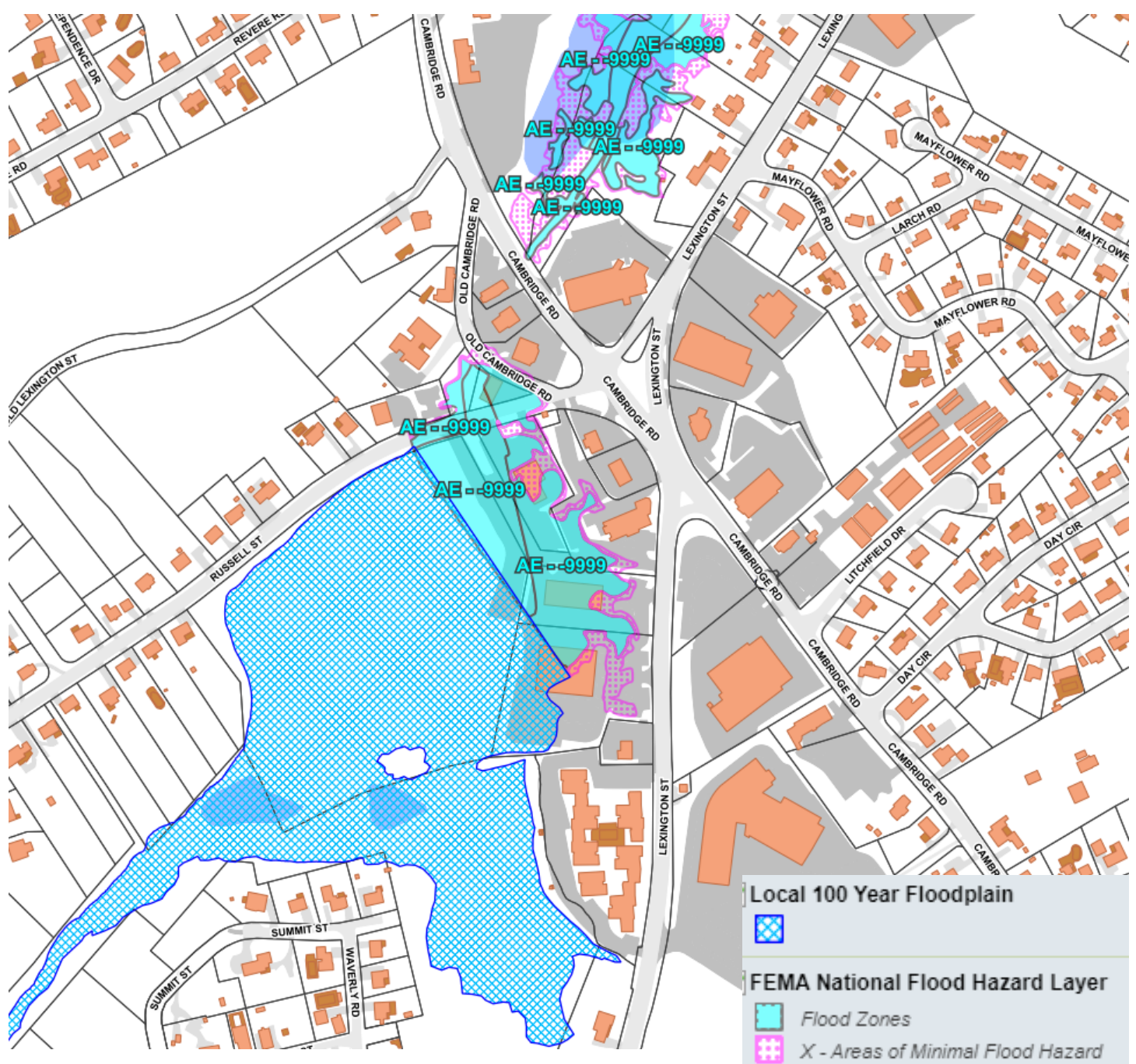
# SHAKER GLEN EXTENSION RESTORATION

The City of Woburn is restoring a 12-acre parcel, the “Shaker Glen Extension,” adjacent to the Shaker Glen Conservation Area\*. The restoration will enhance the ecological value of property, clean up decades of debris, increase flood storage, and mitigate flooding from stormwater during heavy rain in the Four Corners area.

\*WORK IS BEING FUNDED THROUGH NATURAL RESOURCE DAMAGES (NRD) FUNDING



Project Area (MassGIS, Oliver with edits by Weston & Sampson)



Historic Flood Zones (City of Woburn, Maps Online)



Images of Flooding at Four Corners in 2017

<https://patch.com/massachusetts/woburn/power-almost-fully-restored-woburn-other-area-towns>



# EXISTING SITE CONDITIONS





# EXISTING SITE CONDITIONS





# DESIGN METRICS



**12 ACRES**

Of restored conservation area with realigned stream, created wetlands and **33,000 CY** of flood storage



**200,000 FT<sup>2</sup>**

Of created wetland habitat



**1500 Linear Feet**

Of improved stream alignment and 3,000 linear feet of enhanced stream bank



**75,000 FT<sup>2</sup>**

Of debris removal and site restoration



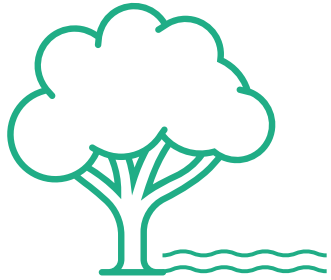
**EDUCATIONAL SPACES**

Opportunity for outdoor education space and just under **3,000 linear feet** of accessible walking paths





# PROJECT COMPONENTS



**WETLAND DELINEATION  
AND STREAM  
GEOMORPHOLOGY  
SURVEY**



**STORMWATER AND  
RESILIENCY FLOODING  
MODELING**



**SITE RESTORATION  
DESIGN +  
PERMITTING**



# SITE DESIGN



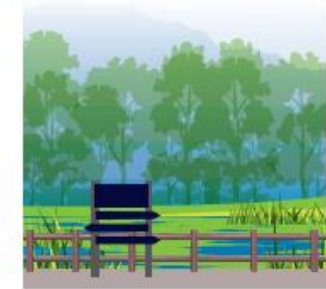
## Views of the Proposed Design



1 View from the bridge, facing downstream



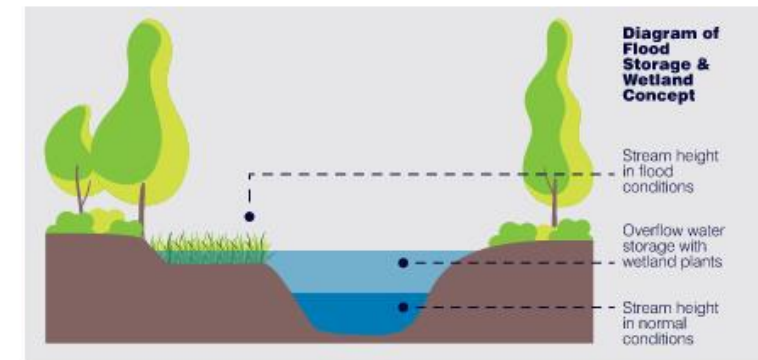
2 View from the bridge, facing the boardwalk



3 View from the outlook, facing the wetland creation and restoration areas

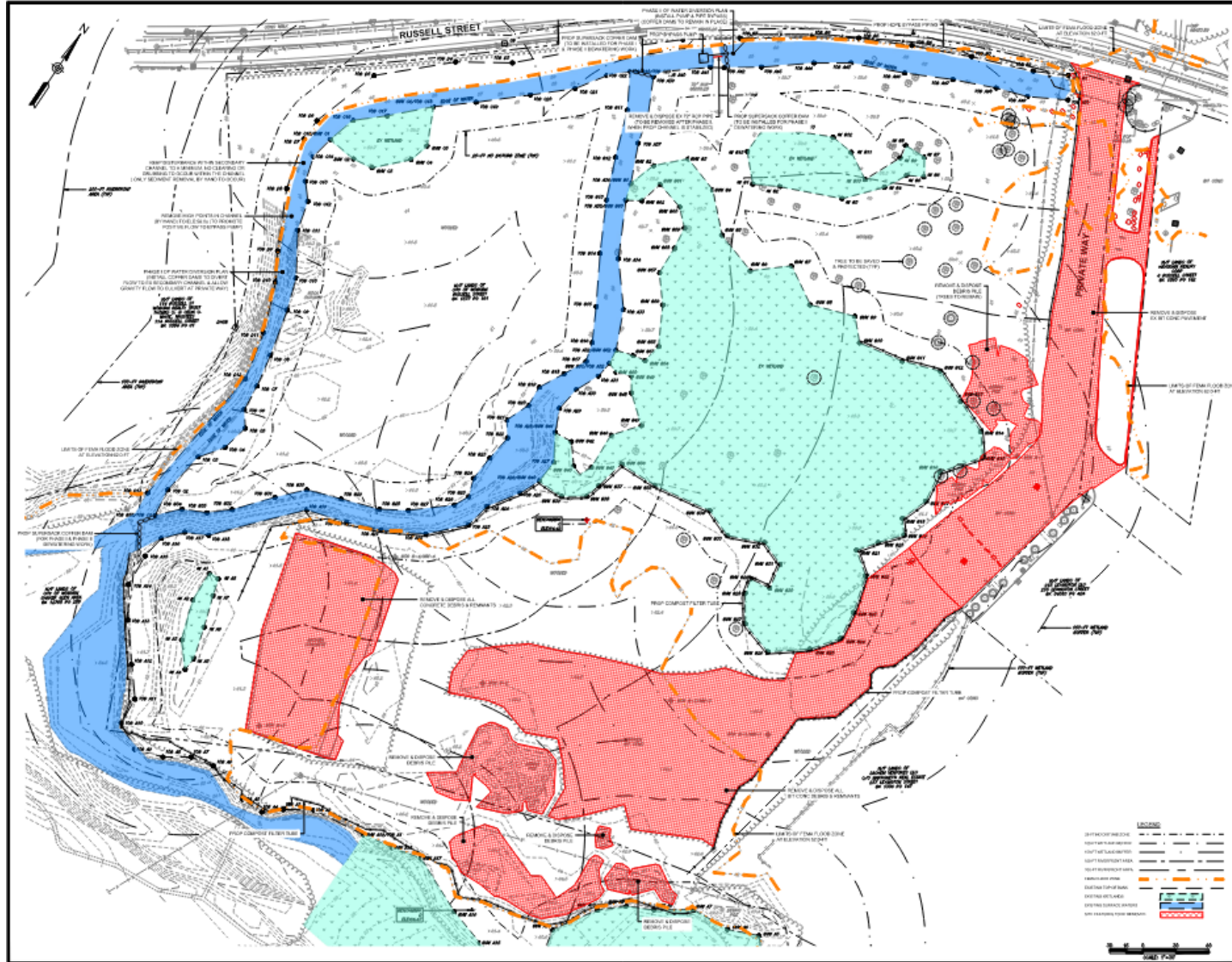


4 View of the boardwalk



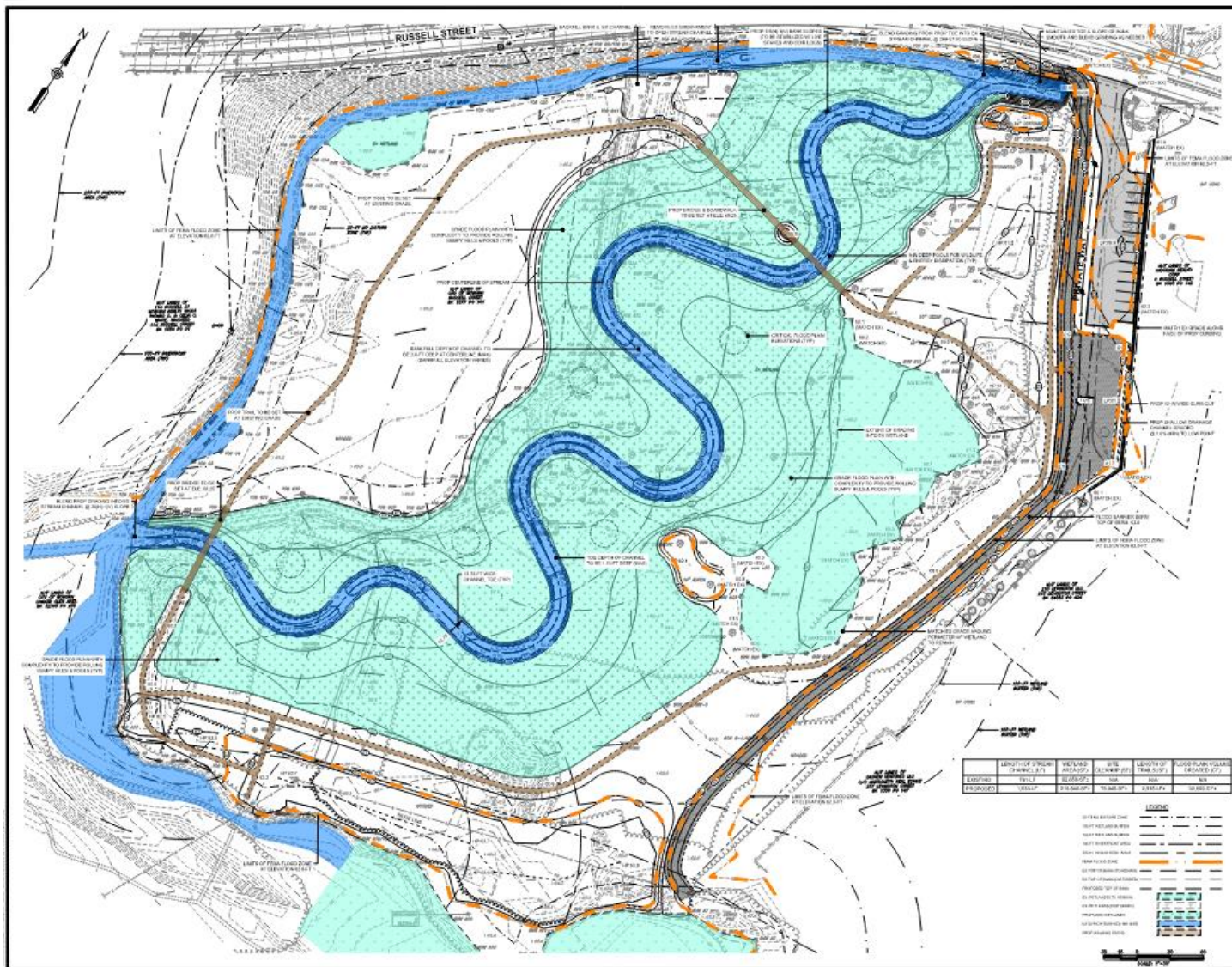


# SITE DESIGN





# SITE DESIGN





# RELATED REGIONAL PROJECTS

MVP Action Grant to  
restore Horn Pond Brook

Natural Resource Damage  
(NRD Fund)

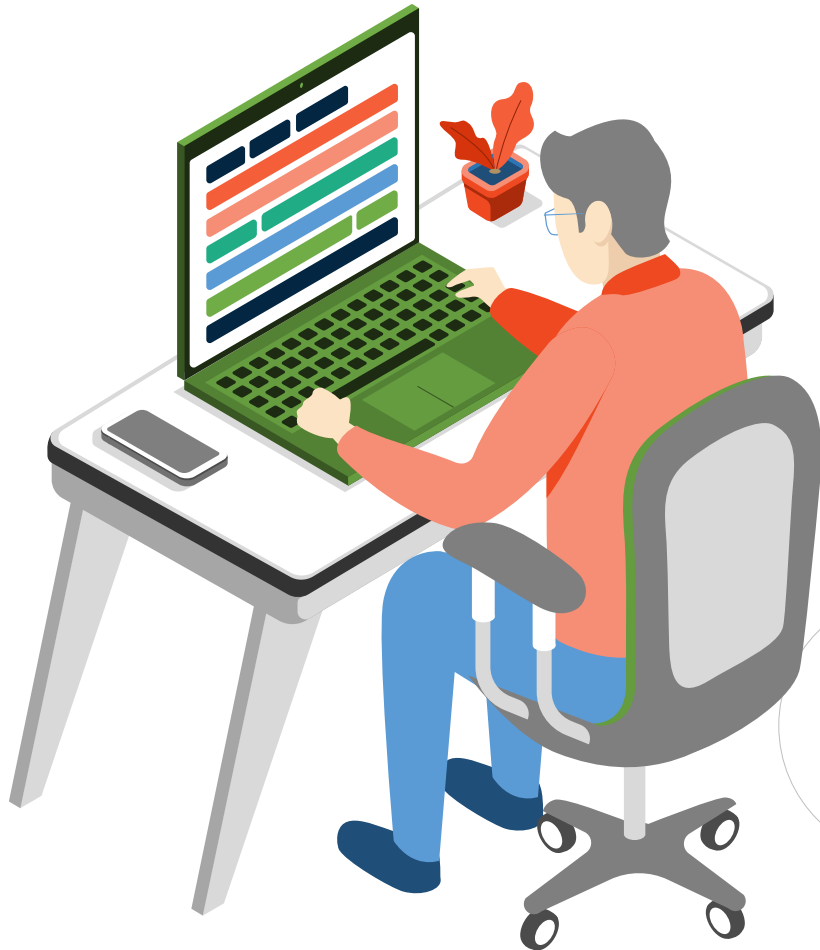
- Fish Passageway at  
Horn Pond





# NEXT STEPS

---



**FINALIZE RESTORATION DESIGN**

**SUBMIT PERMIT APPLICATIONS**

**CONSTRUCTION**

**STAY CONNECTED**

- Check website for updates
- Submit questions and comments



# THANK YOU



Weston & Sampson<sup>SM</sup>

