One of the most ecologically significant estuaries in Massachusetts

1000 acres of highly productive saltmarsh, tidal flats, and shallow sub-tidal channels

5 species endangered or threatened

Prevents flood damage

Rumney Marshes Areas of Critical Environmental Concern (ACEC)
Without the space available to the marsh to migrate inland with sea-level rise and any efforts to protect the marsh, we lose a large area of critical habitat and opportunity for recreation.
Mapping sea-level rise, storm surge and vulnerability (Source: MassGIS, Climate Central)
Marsh migration and impact with retreat (Marsh migration scenarios by NOAA)
A. ADJUSTING THE SALEM TURNPIKE TO ACCOMMODATE PEDESTRIAN AND BIKE PATHS

B. CONNECTING THE EXISTING TRAIL TO THE PROPOSED TRAIL NETWORK

C. EDUCATIONAL AND RESEARCH ZONE - EXISTING FILL SITE WITH PROPOSED VISITOR CENTER, CENTER FOR RESEARCH, BIRDWATCHING, ACCESS TO KAYAK, BIKE AND PEDESTRIAN TRAIL NETWORKS

D. MIGRATION ZONE - AREAS FOR IMMEDIATE MITIGATION MEASURES, FUTURE RETREAT AND MIGRATION OF THE MARSH

E. HABITAT SHIFT ZONE - UPLANDS RETAINED FOR ACCOMMODATING FUTURE SHIFTS IN HABITAT WITH SEA LEVEL RISE

F. KAYAK LAUNCH

G. UPLANDS REMOVED TO ENSURE SUFFICIENT TIDAL FLOW

H. AREA READY FOR RETREAT - BEGIN RELOCATING DEVELOPMENT AND REMOVE INFRASTRUCTURE.
Planning public access with sea-level rise: Year 2030
A. PART OF SALEM TURNPIKE BECOMES INACCESSIBLE, CONVERT AFFECTED ROUTE TO FLOATING BOARDWALK

B. CONNECTION TO THE SEA PLANE BASIN TRAIL AND THE NOW SALEM TURNPIKE TURNED BOARDWALK REMAINS

C. EDUCATIONAL AND RESEARCH ZONE

D. AREAS READY FOR RETREAT - BEGIN RELOCATING DEVELOPMENT AND REMOVE INFRASTRUCTURE, BEGIN PLANTING MARSH SPECIES

E. UPLANDS RETAINED FOR ACCOMMODATING FUTURE SHIFTS IN HABITAT WITH SEA LEVEL RISE

F. KAYAK LAUNCH

G. COMPLETE LOSS OF PEDESTRIAN AND BIKE TRAIL AT REVERE BEACH AND POINT OF PINES, ONLY ONE OBSERVATION DECK REMAINS

Planning public access with sea-level rise: Year 2065
A. SALEM TURNPIKE BECOMES INACCESSIBLE, ACCESS TO THE VISITOR CENTER LIMITS TO BIKES AND PEDESTRIANS

B. CONNECTION TO THE SEA PLANE BASIN TRAIL AND THE BOARDWALK REMAINS

C. EDUCATIONAL AND RESEARCH ZONE - BIKE, KAYAK AND PEDESTRIAN ACCESS REMAINS

D. KAYAK LAUNCH

E. COMPLETE LOSS OF PEDESTRIAN AND BIKE TRAIL LOOP AT REVERE BEACH AND POINT OF PINES

Planning public access with sea-level rise: Year 2090
Planning public access with sea-level rise: Visitor center and Salem turnpike
Planning public access with sea-level rise: Sea Plane Basin trail
1. Create a vegetated berm
2. Prepare area for retreat - Phase 1
3. Open berm at regular intervals for sufficient tidal flow
4. Prepare area for retreat - Phase 2
5. Begin removing existing infrastructure

Edge conditions: Focus Area - Eastern Avenue
1. Relocate existing seawall - Move back
2. Create a buffer between the seawall and the beach
3. Prepare area for retreat
4. Remove seawall
5. Begin removing existing infrastructure
1. Remove existing edge treatments like bulkheads, walls, rubble etc.
2. Allocate new buffer area for waterfront landscape
3. Install deployable floodwall
4. Landscaped zone for future transition - provide connectivity to proposed Lynn Gear Works redevelopment
5. Prepare area for retreat
1. Prepare area for retreat - Phase 1
2. Prepare area for retreat - Phase 2
3. Remove existing vegetation - prepare for transition
4. Begin removing existing infrastructure
5. Install new buffer vegetation

Edge conditions: Focus Area - Pines River