Brisbane Baylands: Natural System Design & Habitat Enhancement

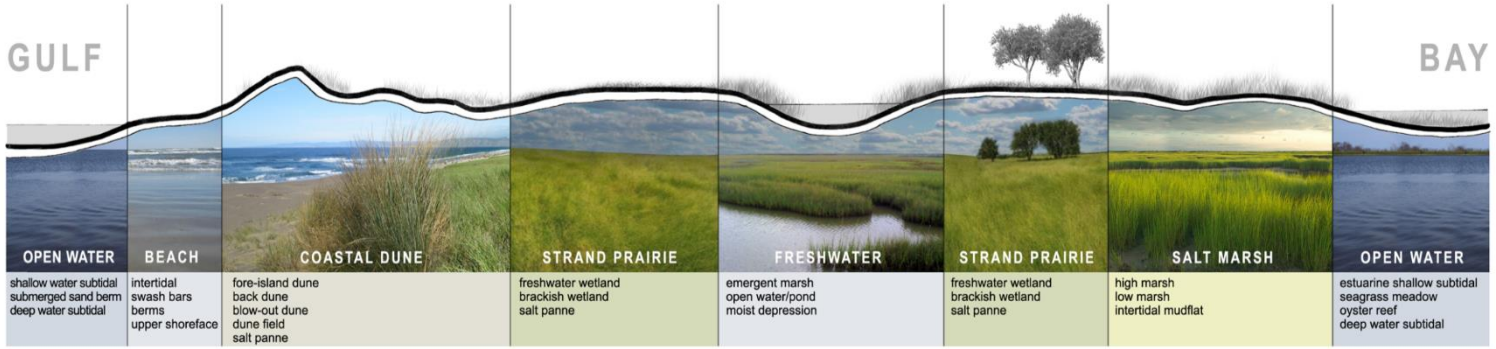
Pete Muñoz, PE - Senior Engineer : Biohabitats

e - pmunoz@biohabitats.com
skype – pete.munoz
twitter – petemunoz
800.220.0919 (o)
802.598.2372 (c)









City of Brisbane

May 23rd, 2017

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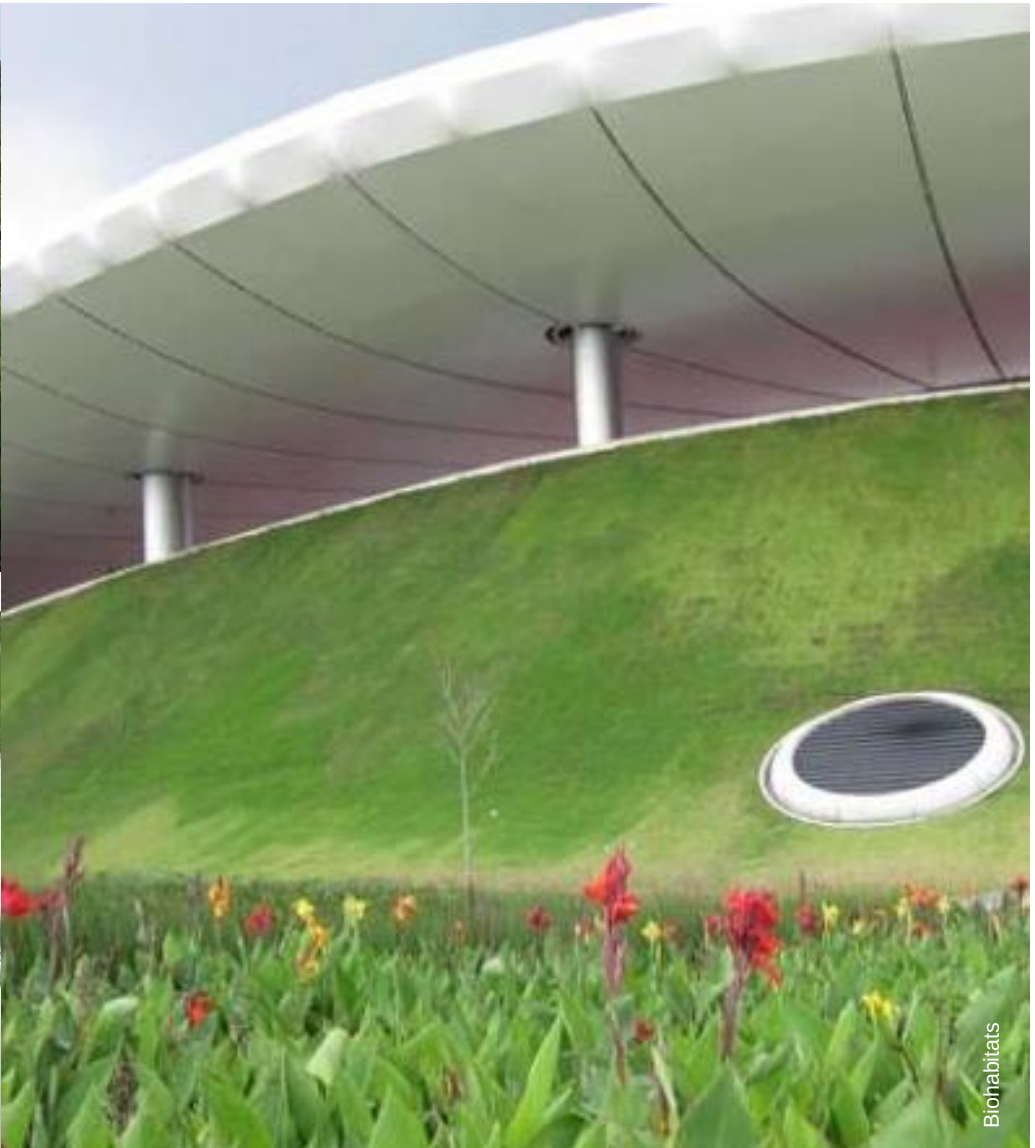





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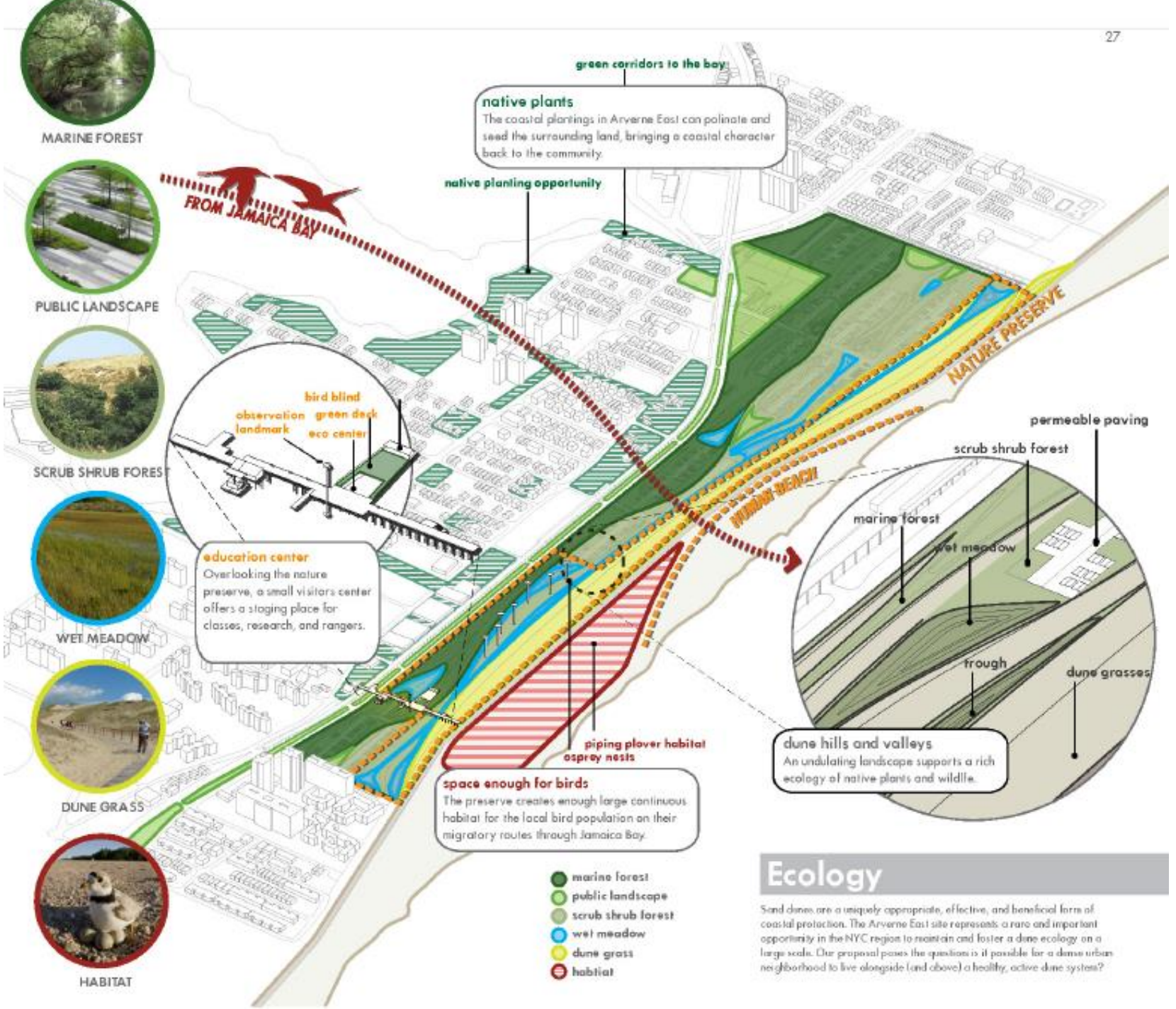

Ecology

Sand dunes are a uniquely appropriate, effective, and beneficial form of coastal protection. The Arverne East site represents a rare and important opportunity in the NYC region to maintain and foster a dune ecology on a large scale. Our proposal poses the question: is it possible for a dense urban neighborhood to live alongside (and above) a healthy, active dune system?

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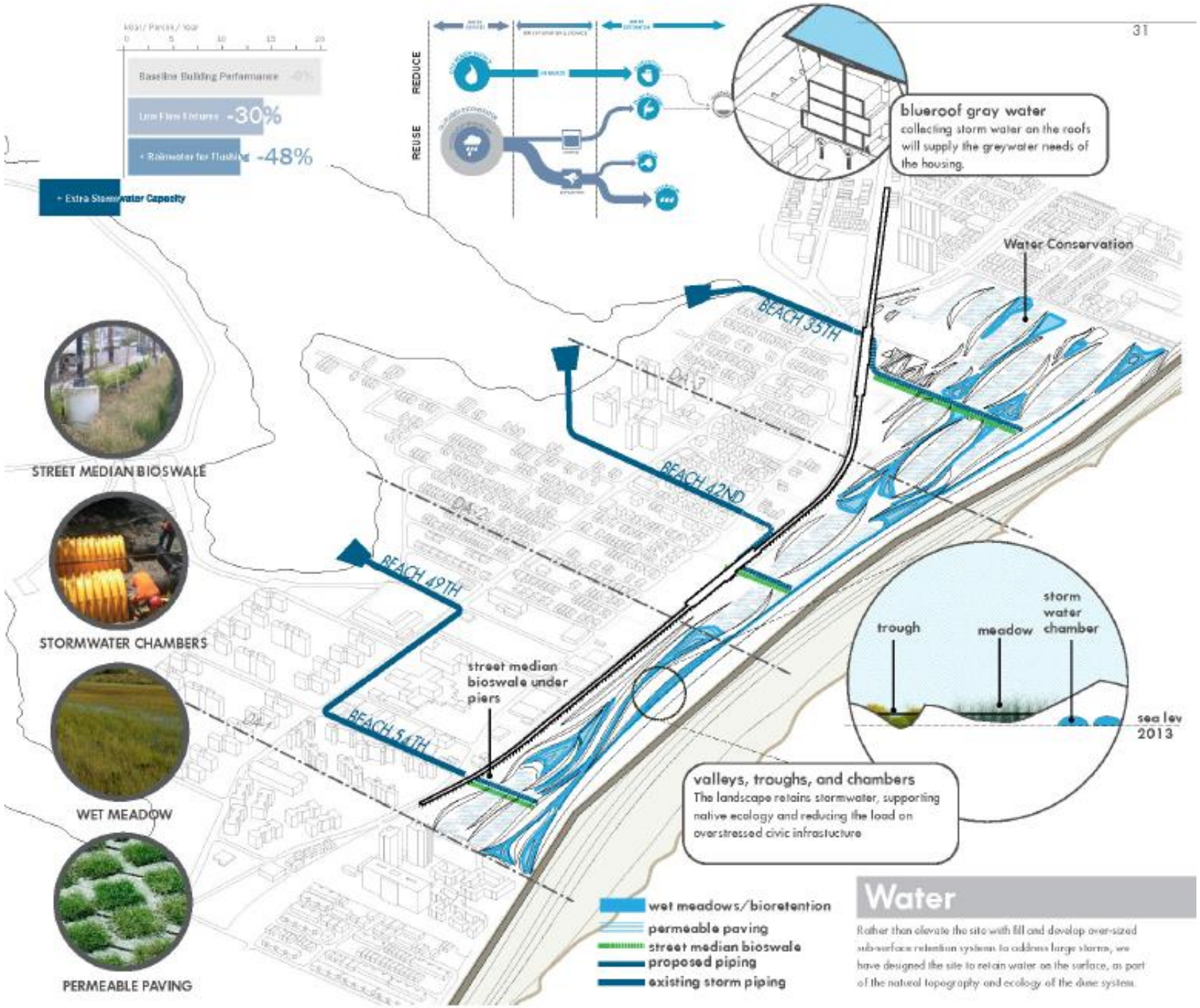


FRAMEWORK

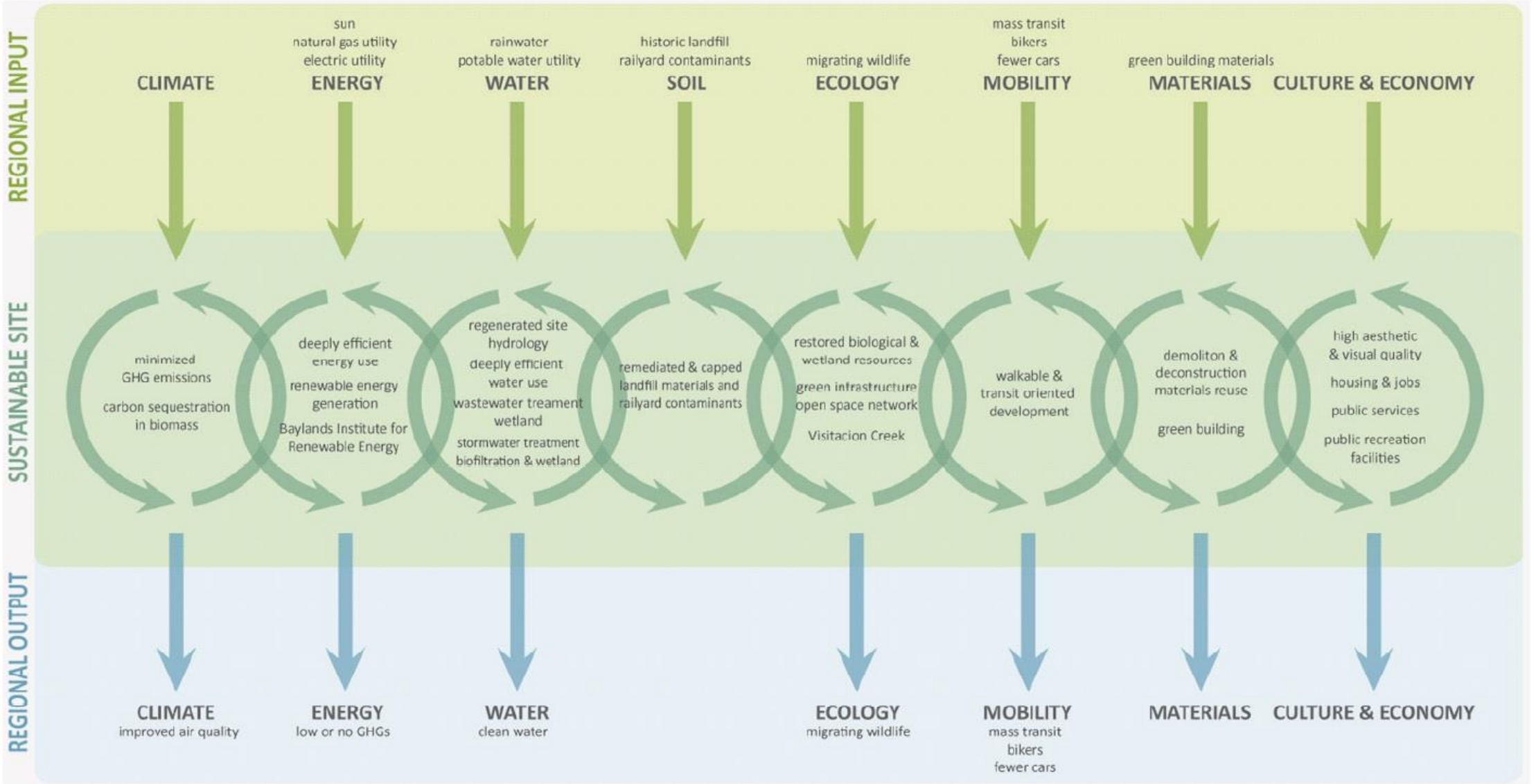


Figure 3.1: Brisbane Baylands Sustainability Framework Conceptual Diagram

BACKGROUND

- LOCATION: HISTORIC EDGE OF THE BAY
- HIGHWAY CONSTRUCTION CREATED AN ISOLATED LAGOON
- LANDFILL CONSTRUCTION: HARD EDGE ON THE NORTH END, DIKE USING RIPRAP



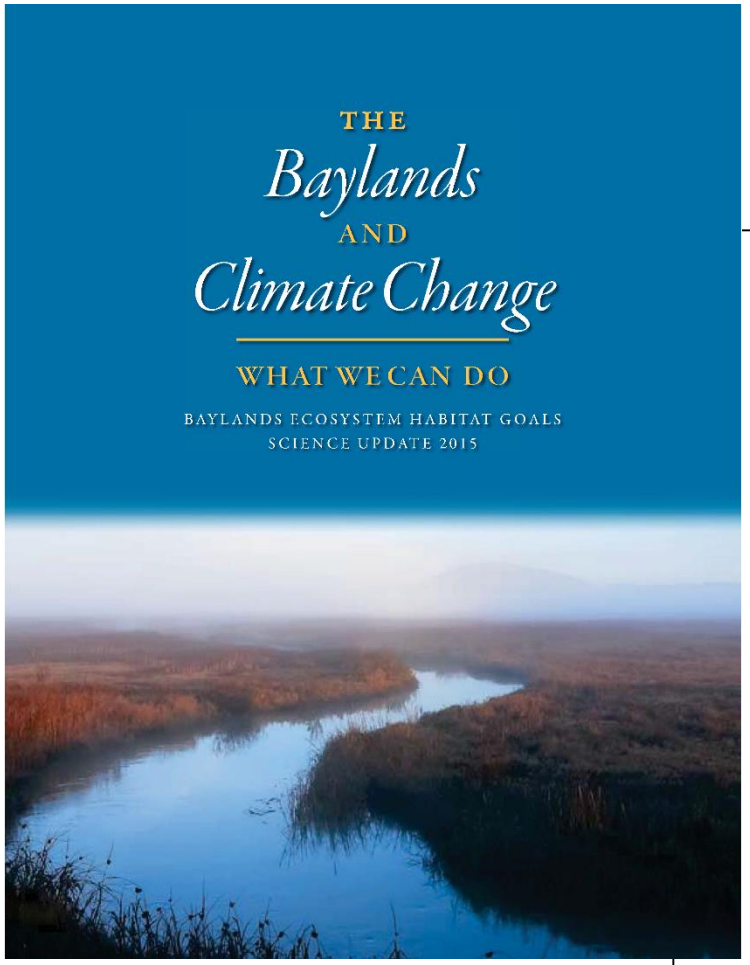


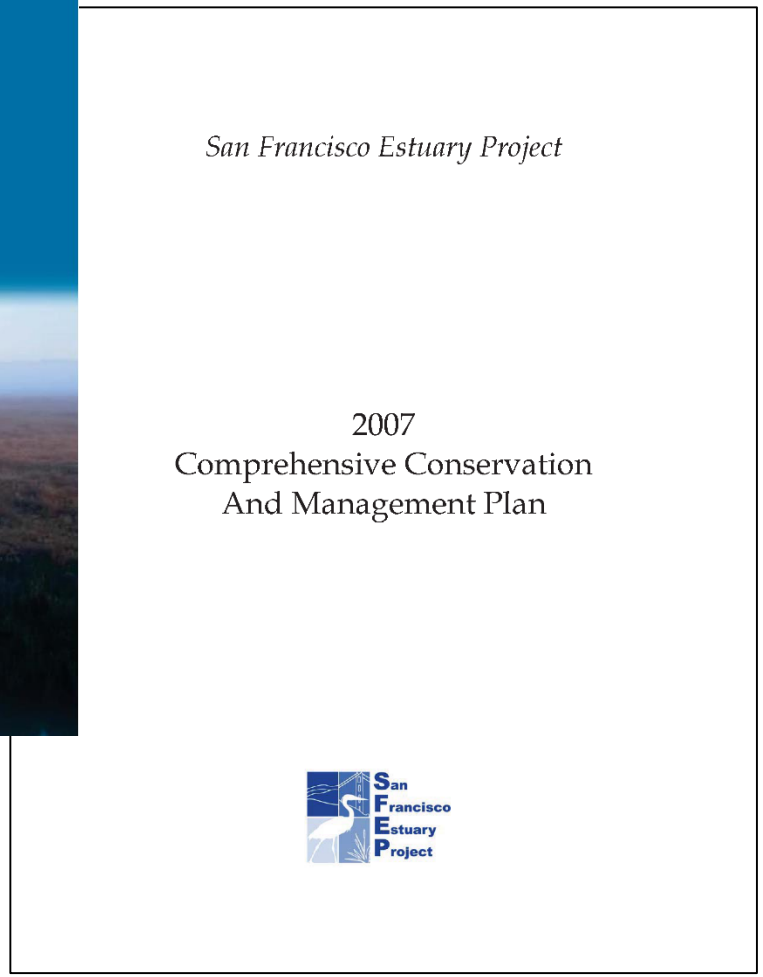
BACKGROUND

WETLAND RESTORATION EFFORTS IN THE BAY AREA

CONCERNS REGARDING SEA-LEVEL RISE

GUIDING LITERATURE –
THE BAYLANDS HABITAT GOALS REPORT
AND
2007 COMPREHENSIVE CONSERVATION AND MANAGEMENT PLAN



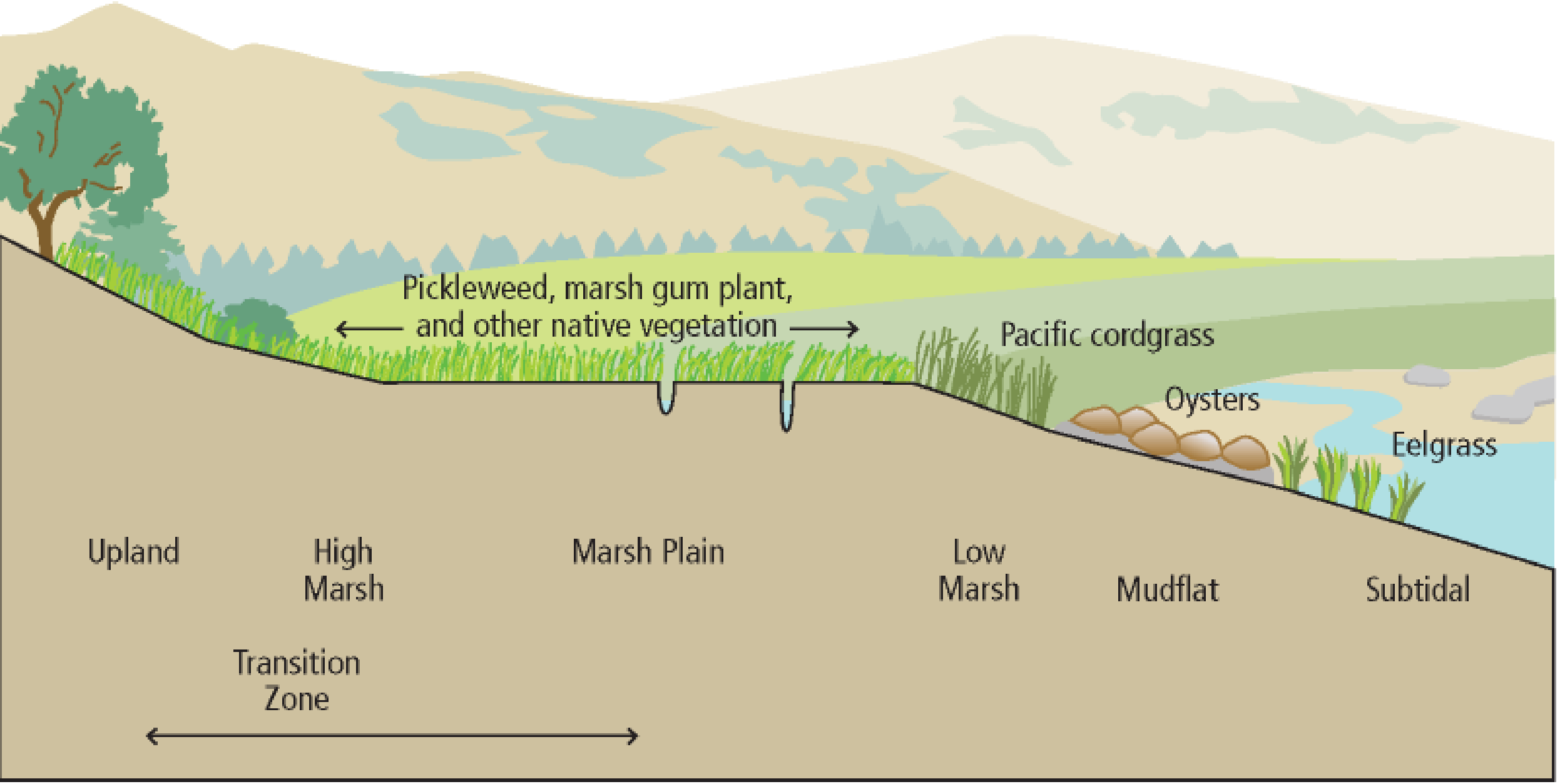



Regional (Caltrain)
Water
Creek Channel
Bioswale Network
Lagoon
Wastewater Treatment/ Recycling Facility/ Constructed Wetlands
Energy
Solar Fields
Specific Plan Boundary
Ice House
Kinder

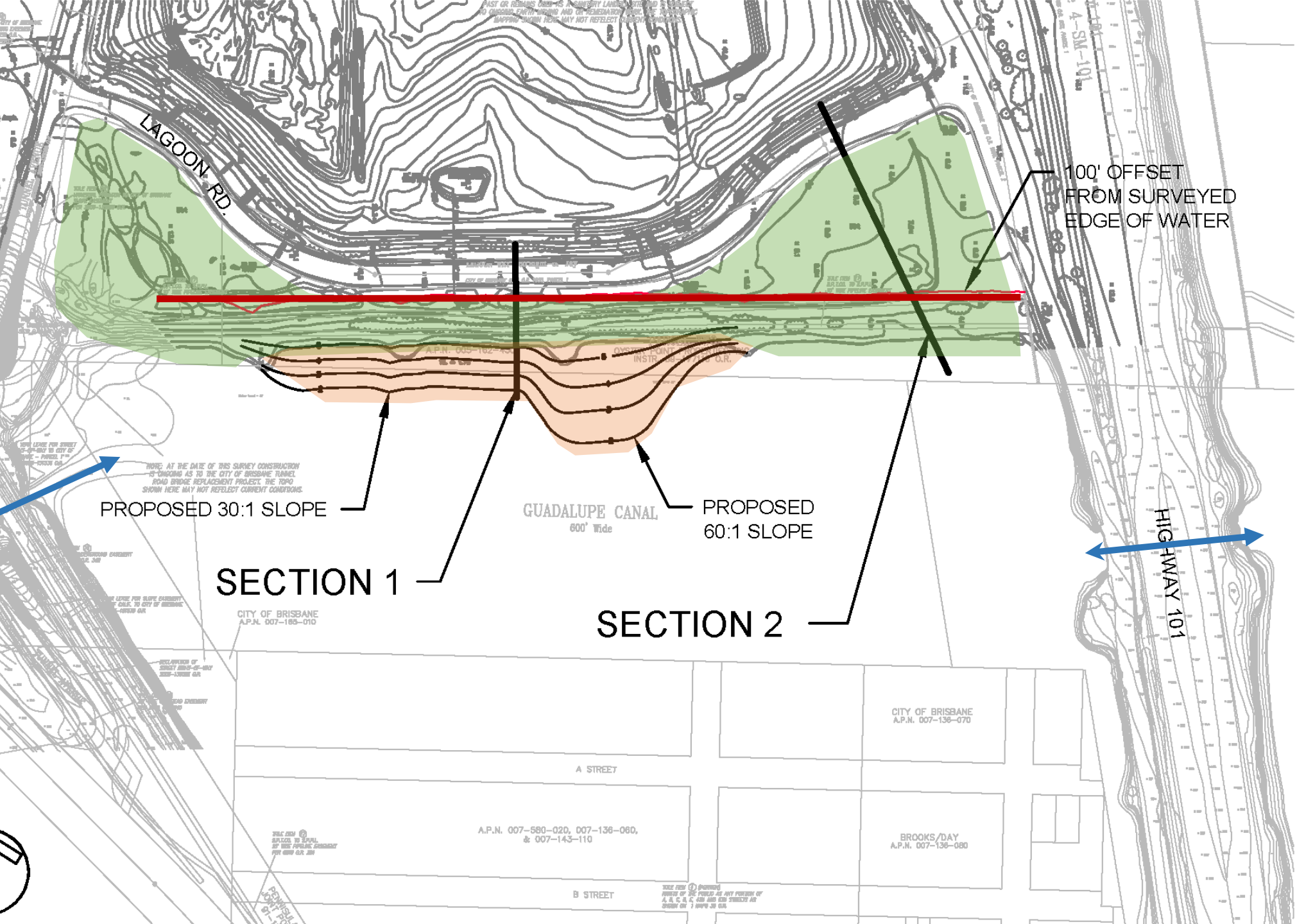





Valley Dr.
Lagoon Way
BRISBANE LAGOON



SOURCE: THE BAYLANDS AND CLIMATE CHANGE: WHAT WE CAN DO



- PROPOSED GRADING APPROX. 1,000 LINEAR FEET (LF)
- 800 LF at 30:1 SLOPE
- 200 LF AT 60:1 SLOPE
- 1,000 LINEAR FEET = 66,000 CY FILL

LEGEND

- Invasive removal and native re-vegetation
- Proposed fill and native planting

CONCEPT SECTION 1

