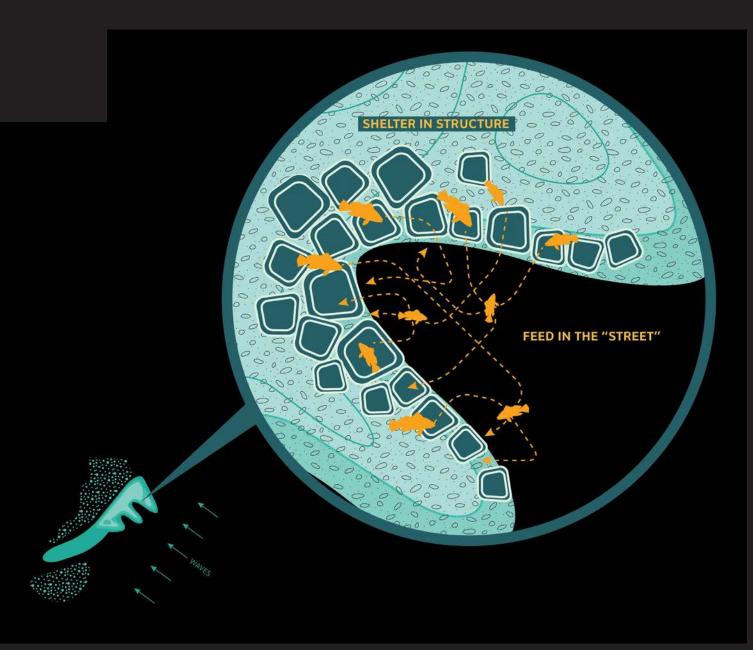
REEF STREETS







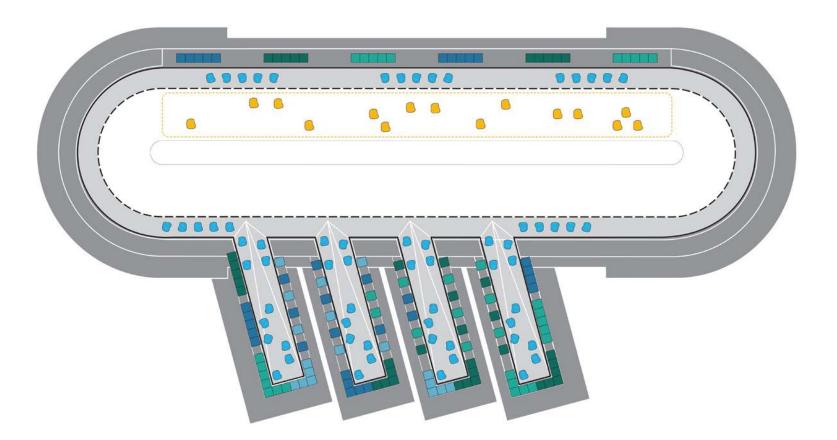
MAIN BREAKWATER ARMOR STONE

1 10 10

1

Largers stones create larger crevice space for growing juvinile fish species

BIO- ENHANCING TIDE POOL UNIT Shallow slopes and water retaining elements





FISH HUB 1 (with mesh)



FISH HUB 2 (with mesh + rock)



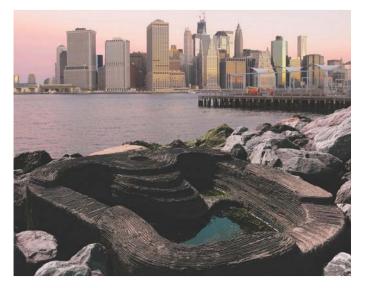
OYSTER HUB 1 (seeded discs)



BIO-ENHANCING CONCRETE ARMOR UNITS



BIO-ENHANCING CONCRETE TIDE POOLS



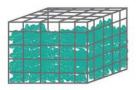


OYSTER HUB 2 (with mesh + seeded shell)

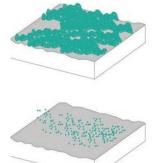




OYSTER HUB 2 (with mesh + seeded shell)

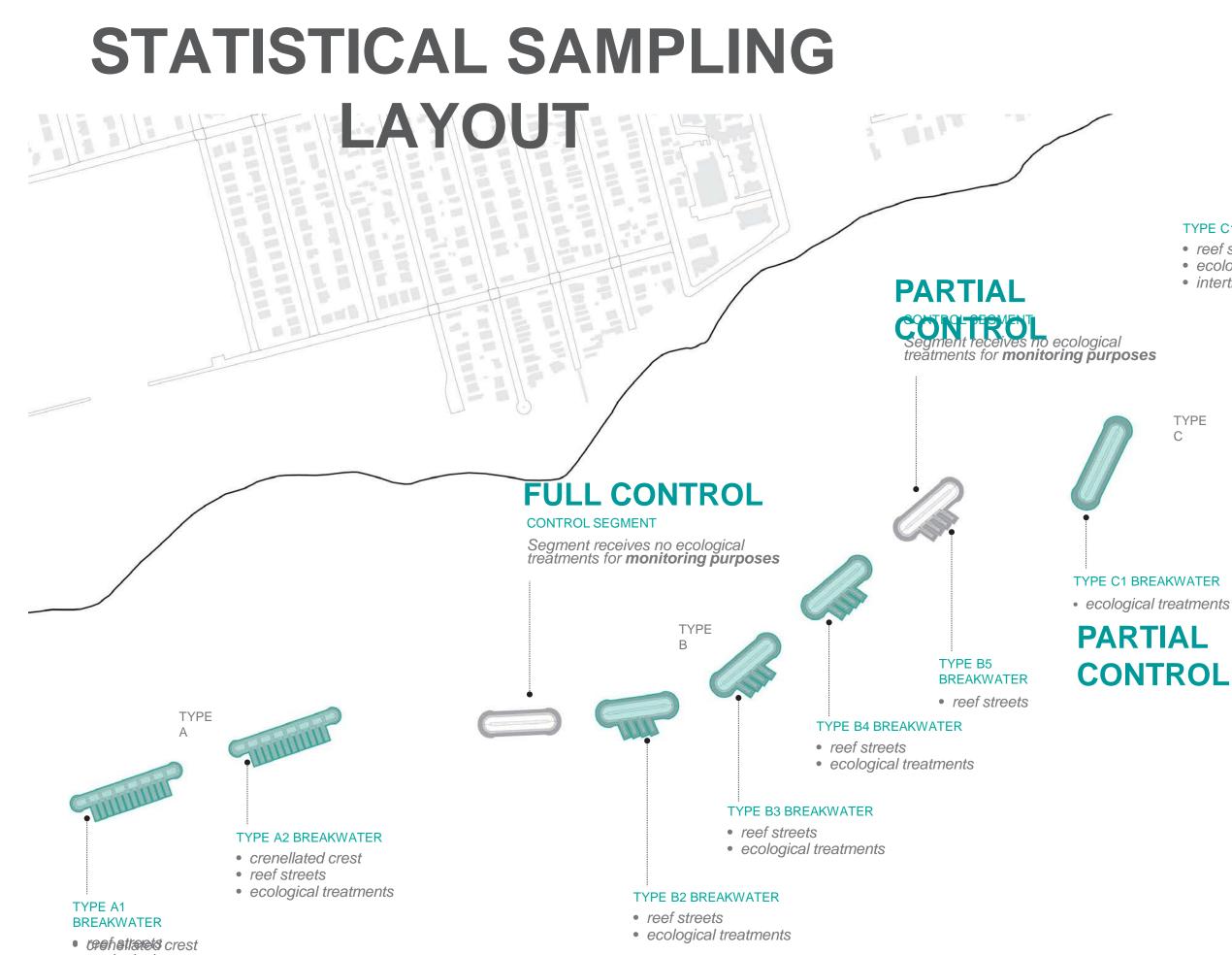


OYSTER GABION (contained seeded shell)



LOOSE SPAT-ON-SHELL

IN-SITU SETTING



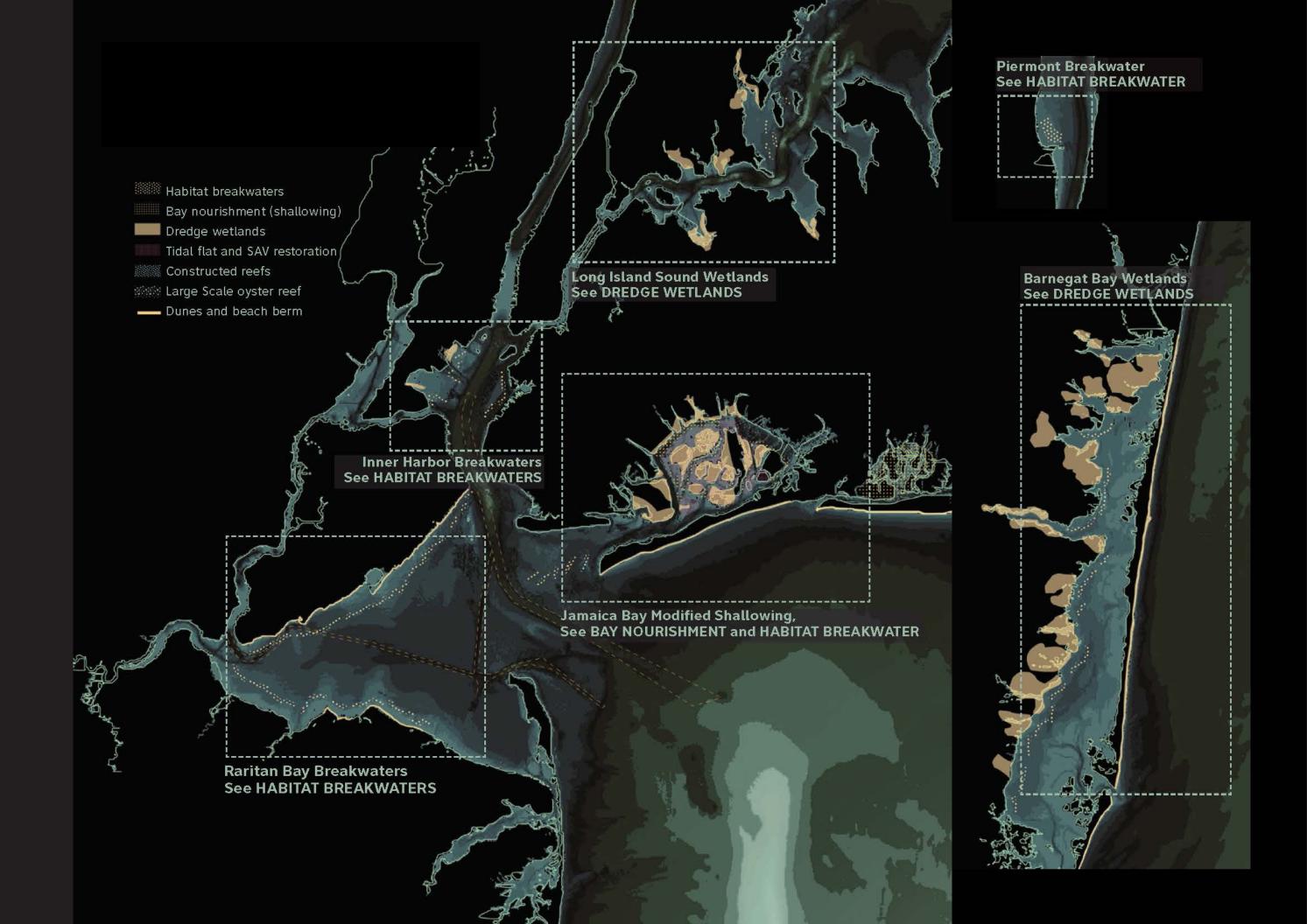
• ecological treatments

TYPE C1 BREAKWATER

- reef streets
- ecological treatments
- intertidal berm





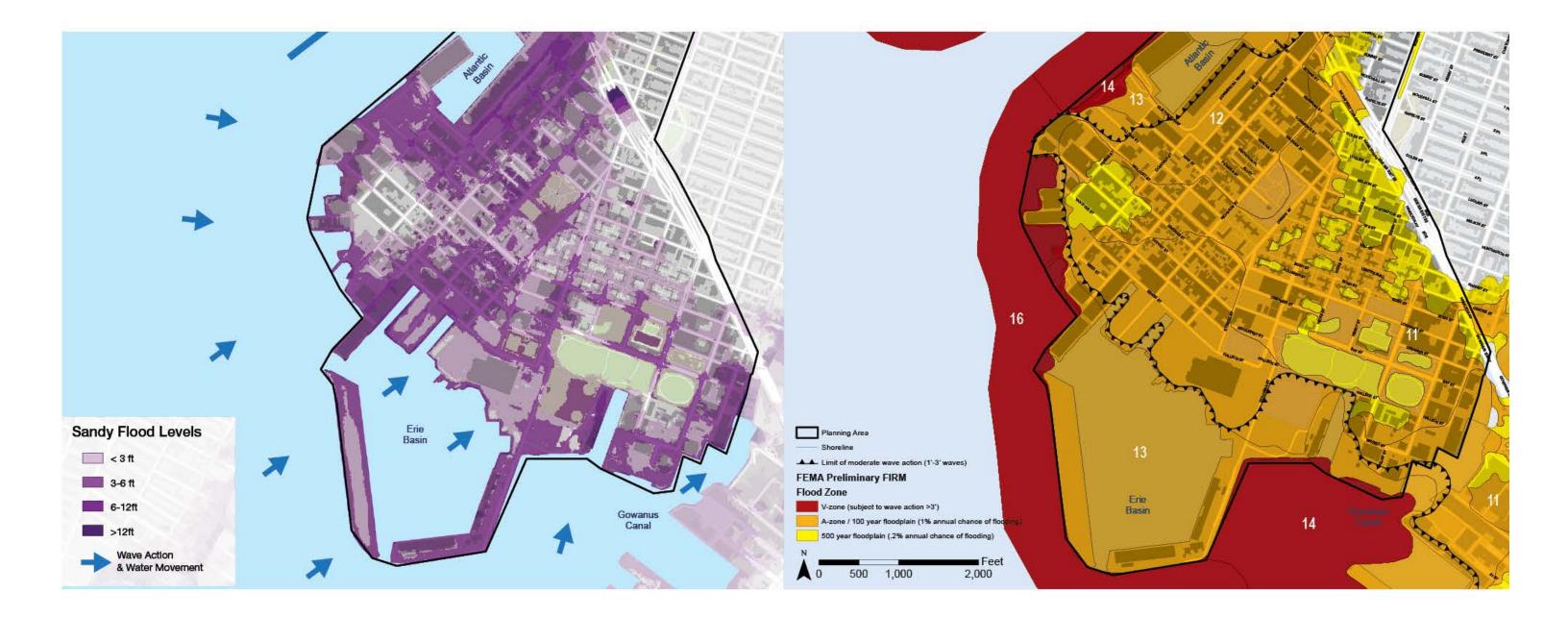


ALL SCALES ALL CONTEXTS



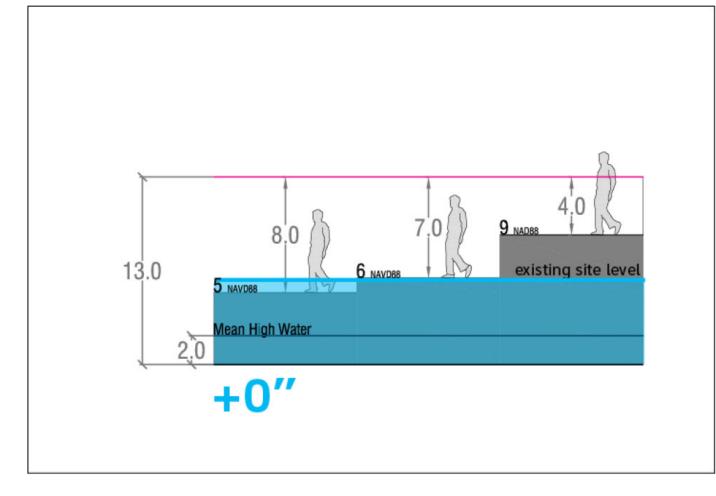


FLOODING



RISING TIDES

TODAY



PREDICTIONS ...

Mean Annual Changes – Sea Level Rise

Sea Level Rise Baseline (2000 – 2004)	Low-estimate (10 th percentile)	Middle range (25 th to 75 th percentile)	High-estimate (90 th percentile)
2020s	+ 2 in	+ 4 in to 8 in	+ 10 in
2050s	+ 8 in	+ 11 in to 21 in	+ 30 in
2080s	+ 13 in	+ 18 in to 39 in	+ 58 in
2100	+ 15 in	+ 22 in to 50 in	+ 75 in

Based on 24 GCMs and two Representative Concentration Pathways. Shown are the low-estimate (10th percentile), middle range (25th percentile to 75th percentile), and high-estimate (90th percentile).

The NPCC incorporated additional information based on recently-released IPCC AR5 Report, resulting in small changes to the sea level rise projections for 2020s and 2050s

Higher sea levels are extremely likely for New York City

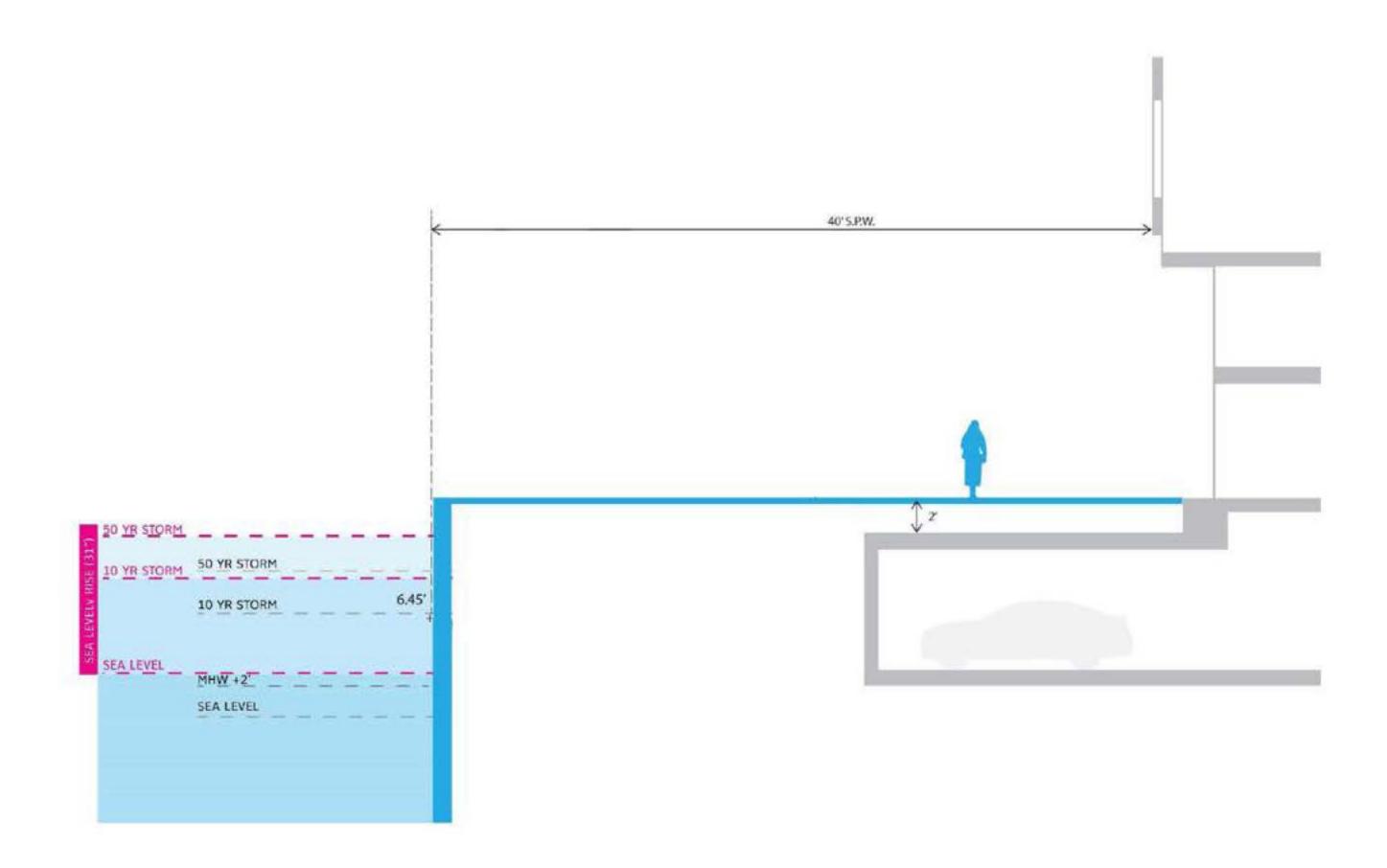
BFE & SLR: WHAT IT MEANS ON THE GROUND



DEVEL + 16.5 NA 8 THOR HUTTY' FRE (BFE

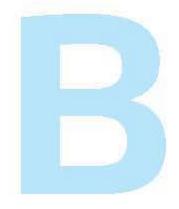
FREEBOARD)

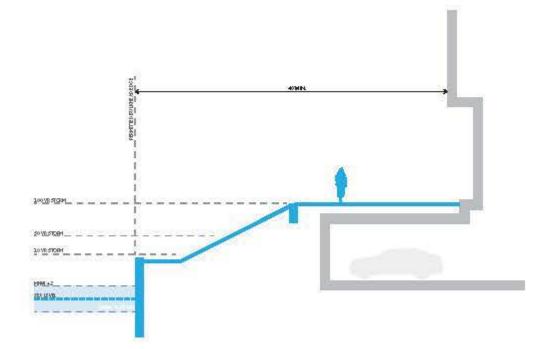
+ 6 NAVDRA EXISTING SITE LEV

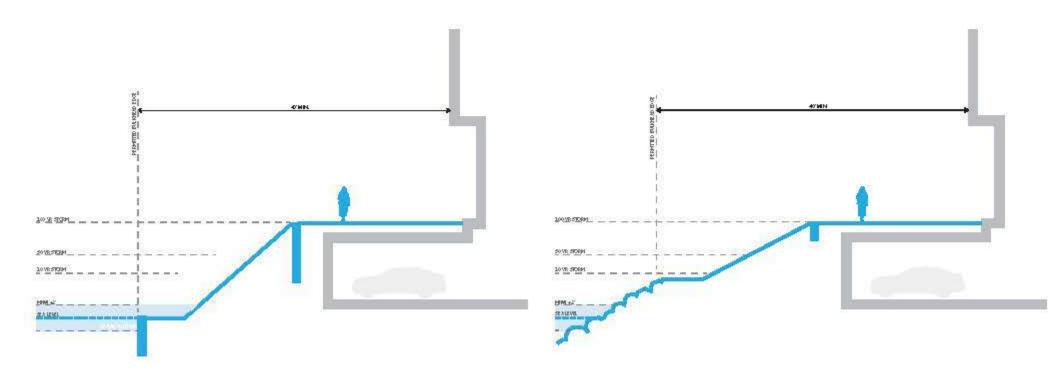


CERTIFICATION

DESIRED CONDITION



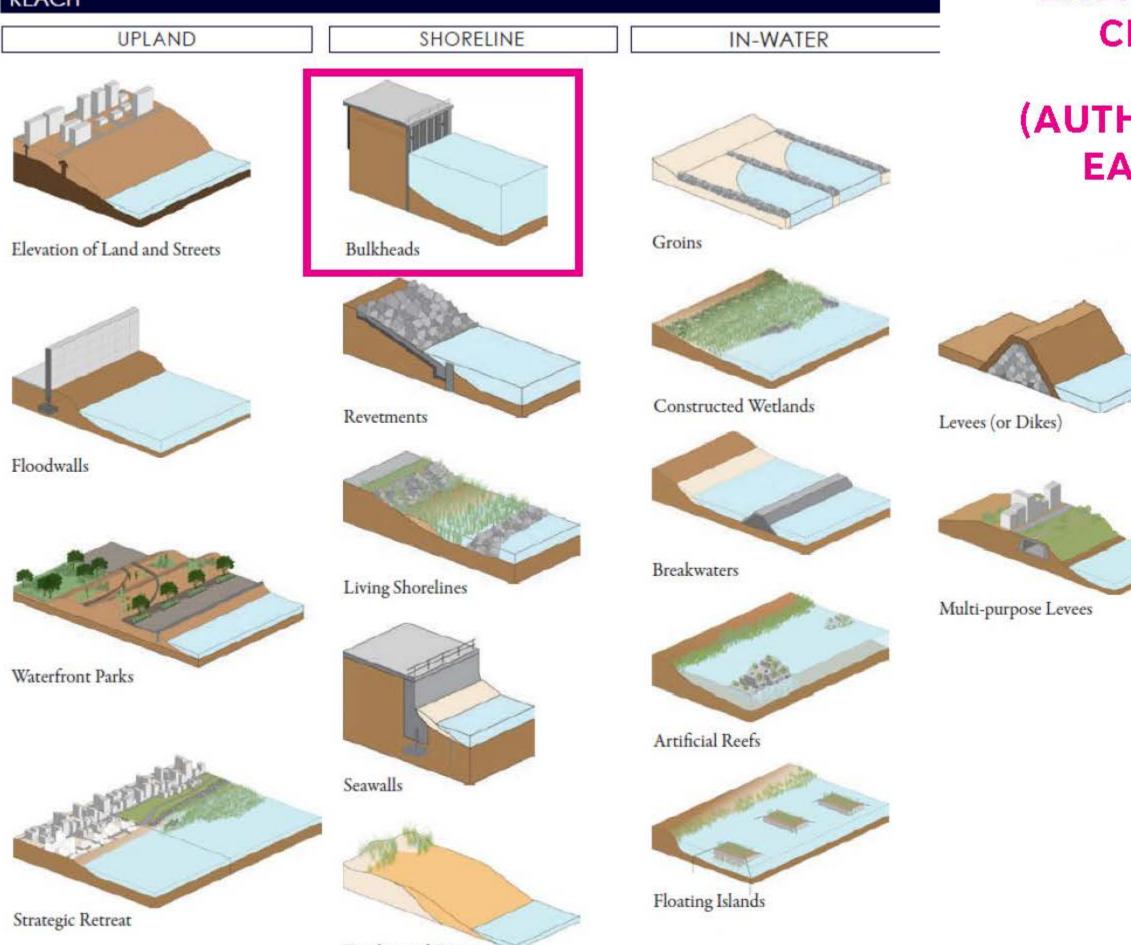




COMPENSATORY MITIGATION



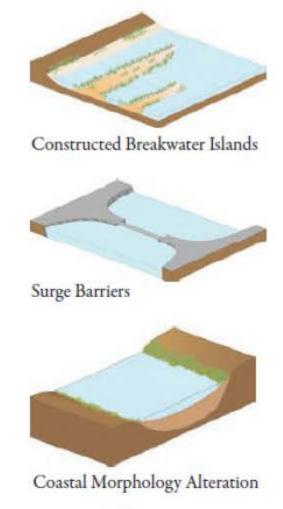
REACH

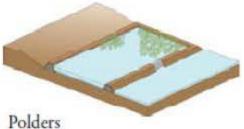


Beaches and Dunes

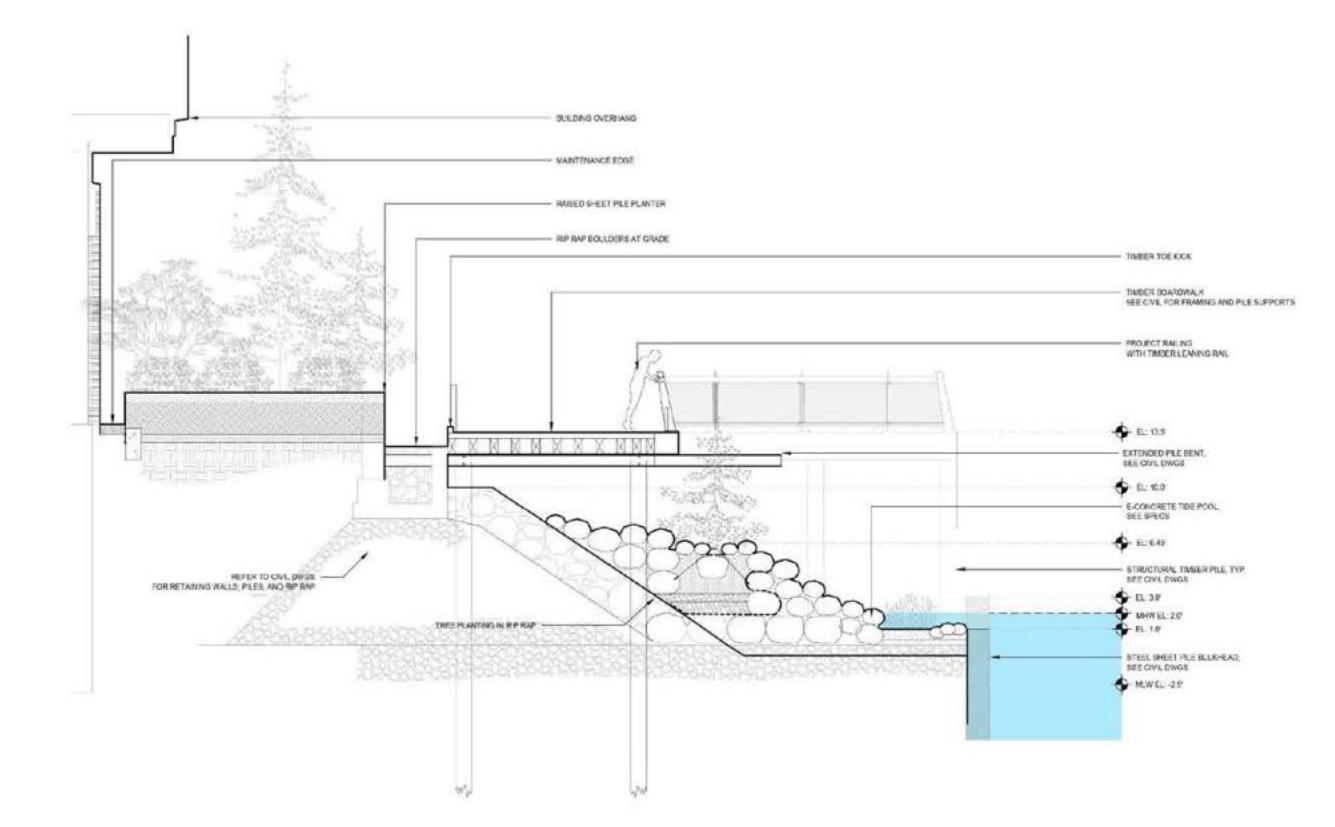
EASIEST OPTION FOR CERTIFICATION

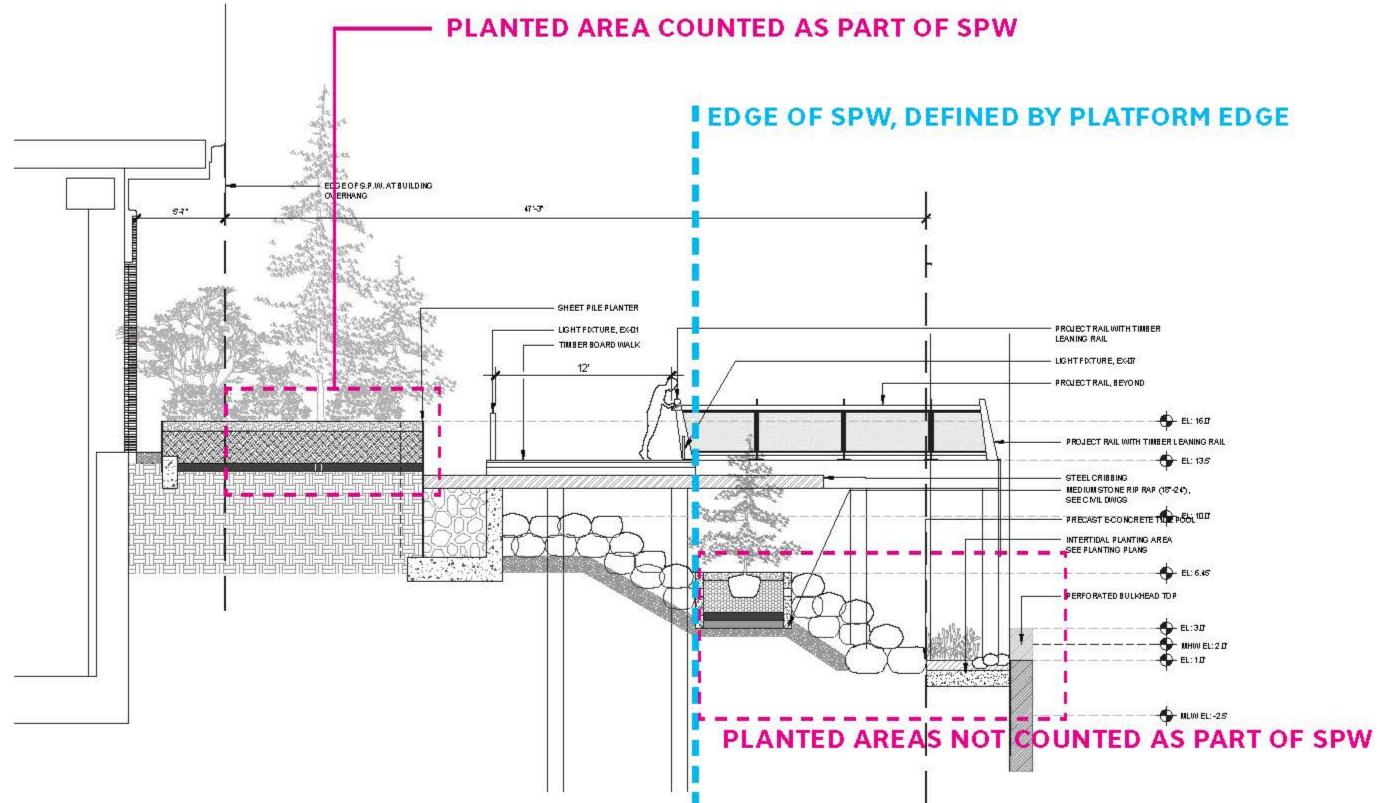
(AUTHORIZATION ISN'T EASY OR CHEAP)





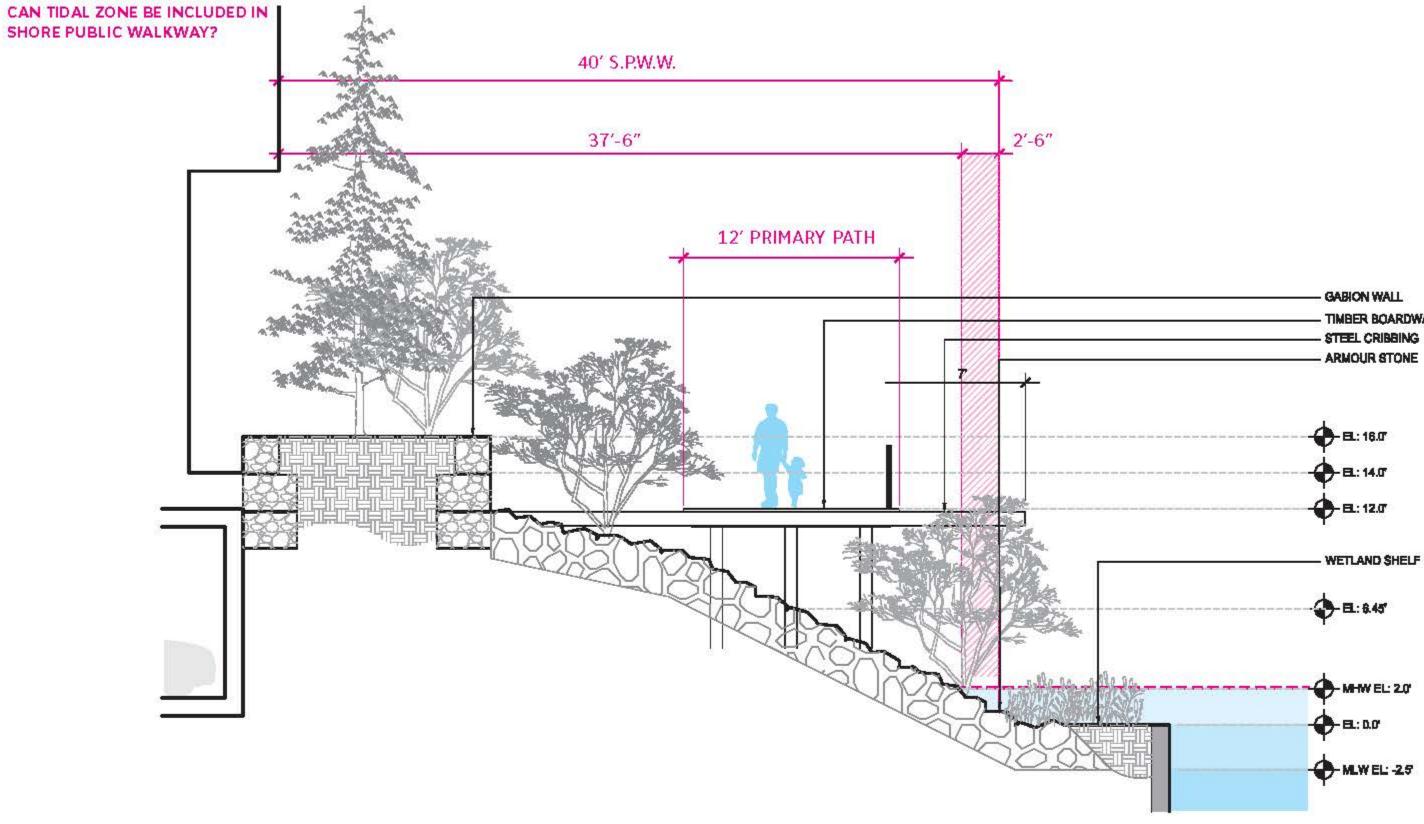


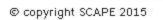




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SITE SECTION - 1





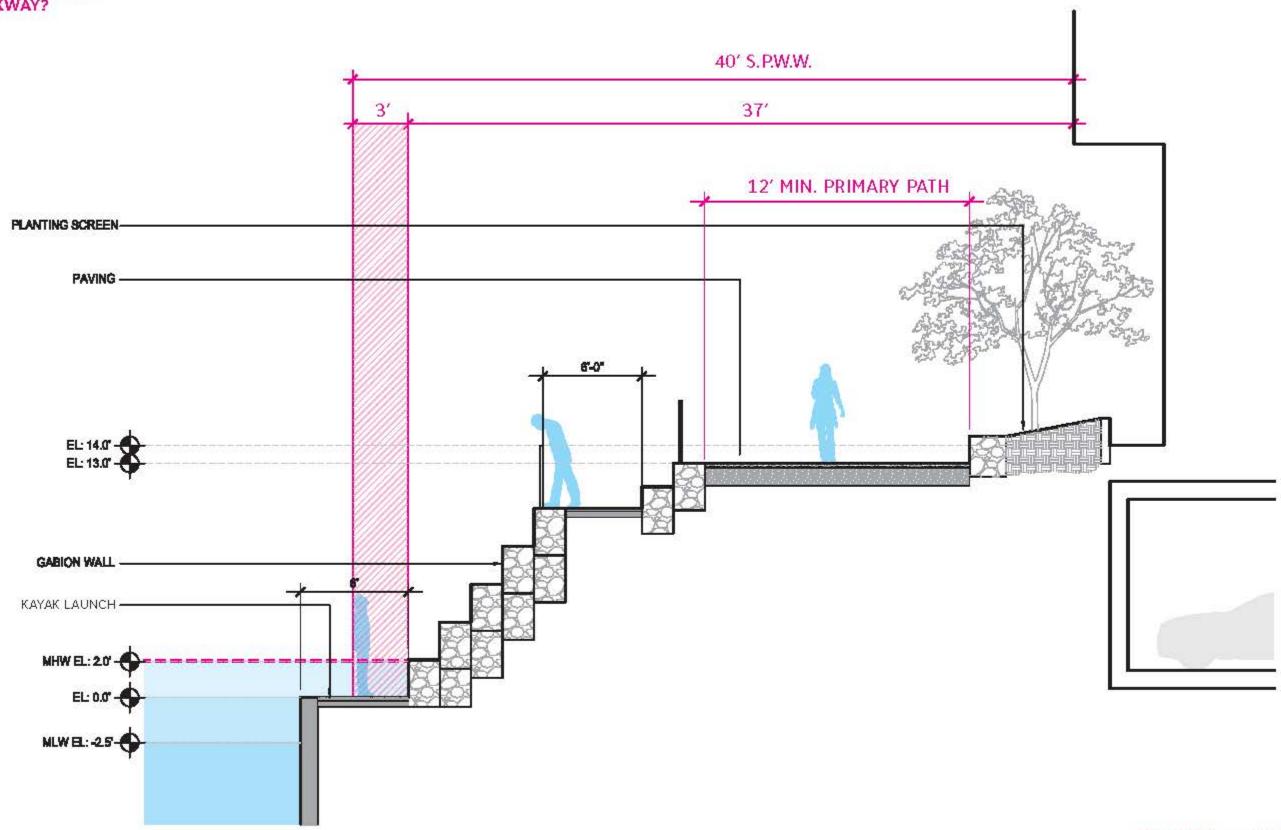
SCAPE / LANDSCAPE

ARCHITECTURE PLLC

PAGE 12

GABION WALL
TIMBER BOARDWALK
STEEL CRIBBING
ARMOUR STONE

CAN TIDAL ZONE BE INCLUDED IN SHORE PUBLIC WALKWAY?



280 RICHARDS OCTOBER 21, 2015





THANK YOU!