

SPUR lunchtime presentation

02 . 02 . 2011

alma du solier
james haig streeter

water



people



water + people

embracing dynamic systems for public realm design



river

tuolumne river regional park

modesto, ca

golf
course
area

gateway

legion
park

airport area



passive recreation

active recreation

restoration

nature study & interpretation

gathering

carpenter rd. area

mancini
park

golf
course
area

gateway

legion
park

airport area



carpenter rd. area

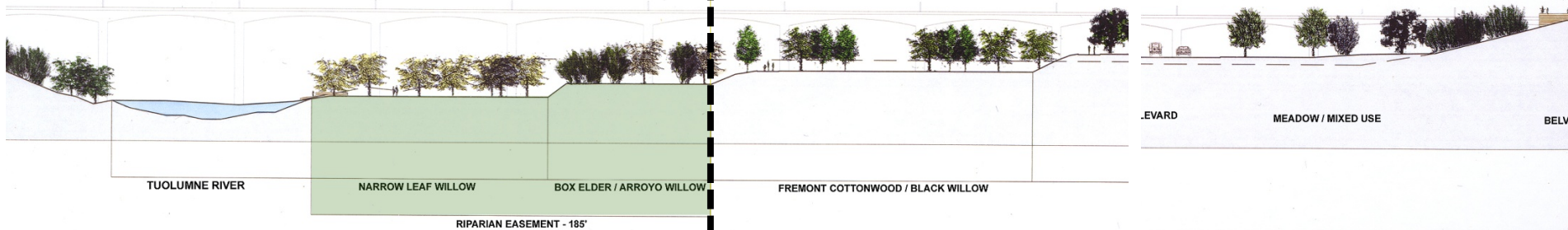
mancini
park





tuolumne river regional park | remnant valley oaks at gateway parcel

restoration | access



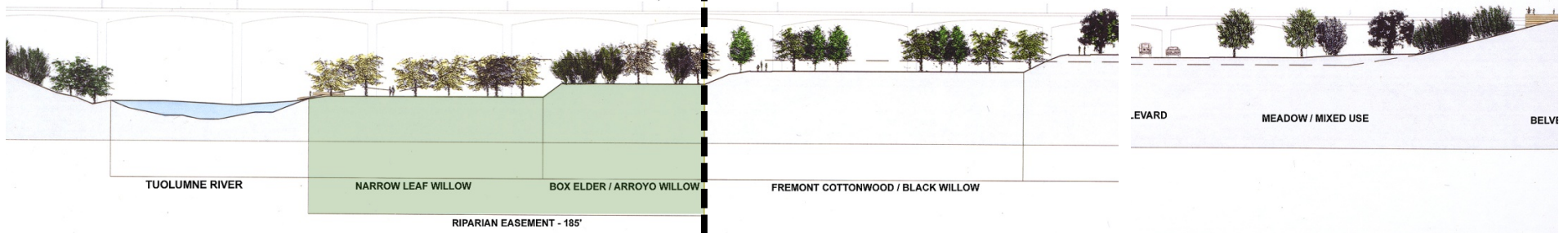
tuolumne river regional park | public access + riparian restoration



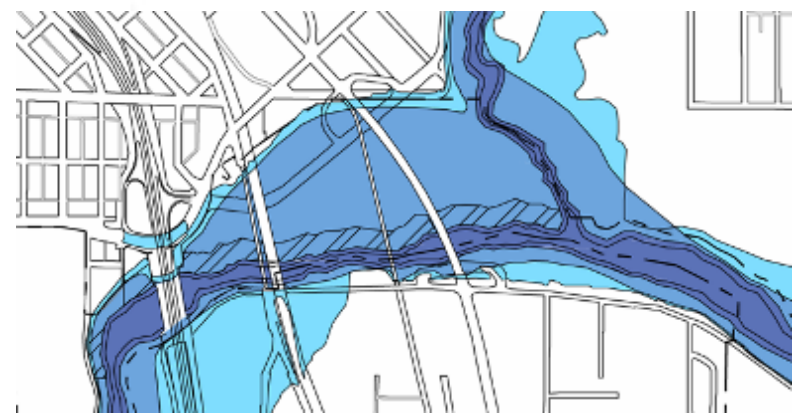
tuolumne river regional park | 100-year flood : 1997

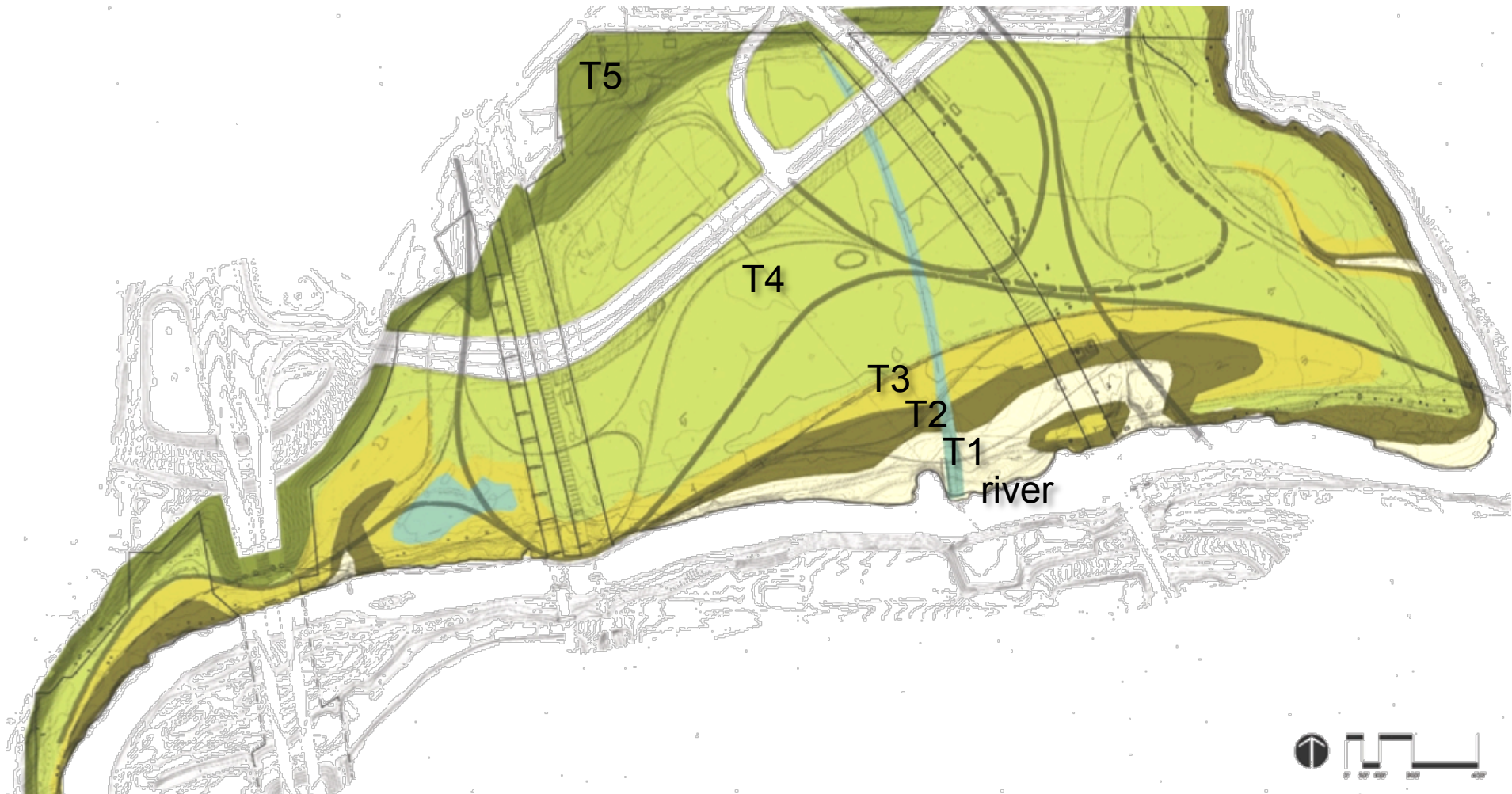
access access access **access** access

restoration restoration restoration restoration restoration

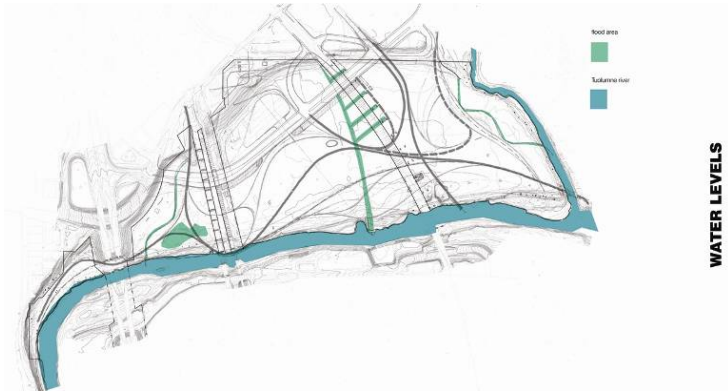


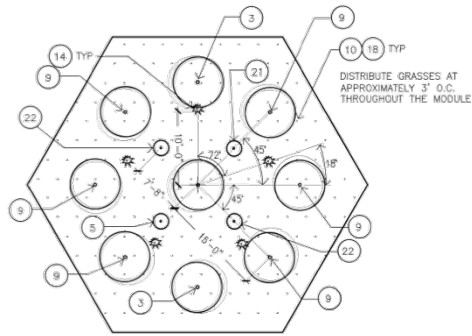
tuolumne river regional park | public access + riparian restoration



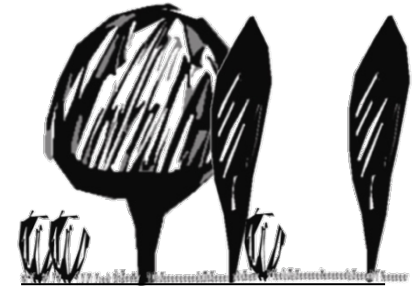


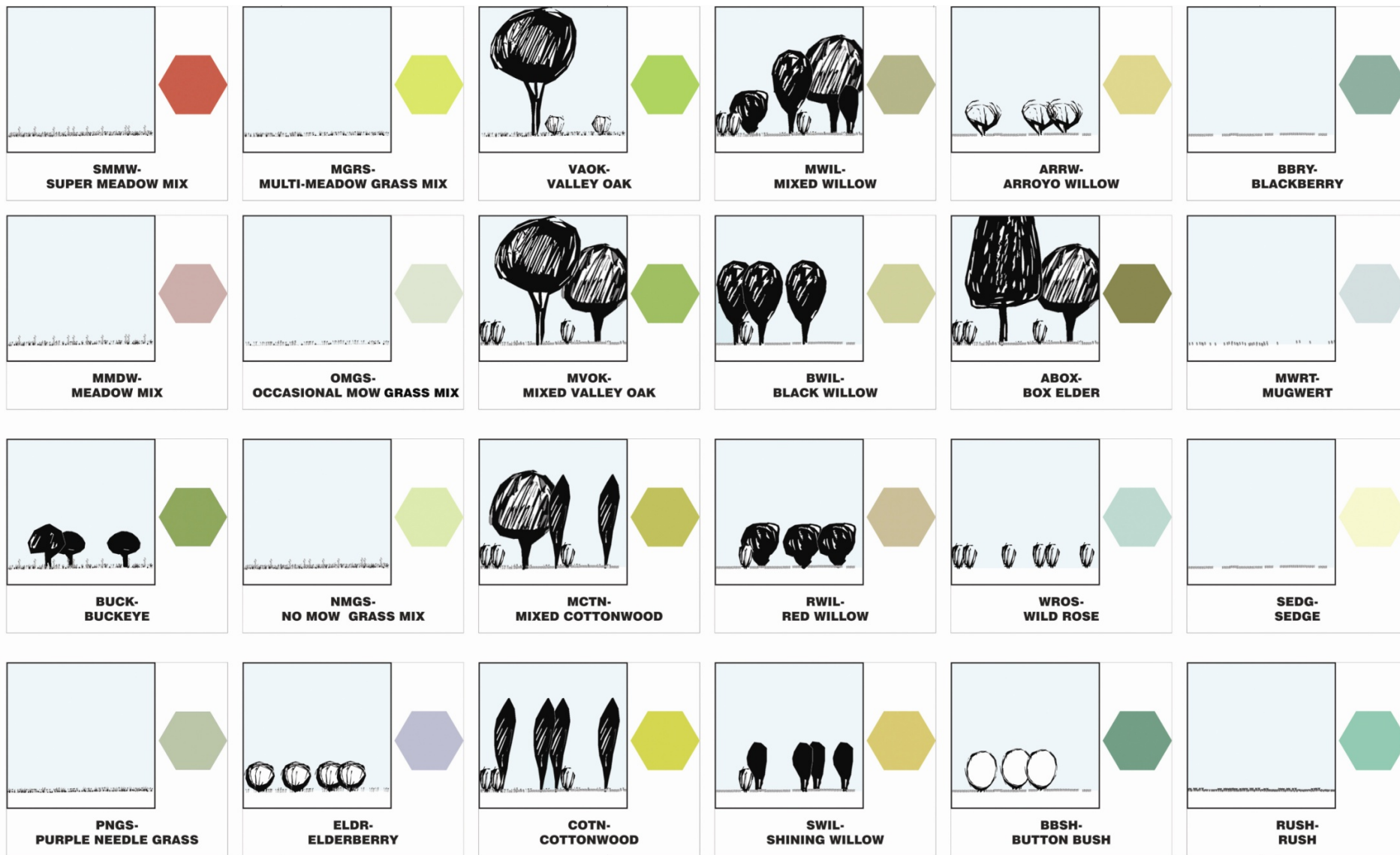
tuolumne river regional park | riparian terraces + usage zones





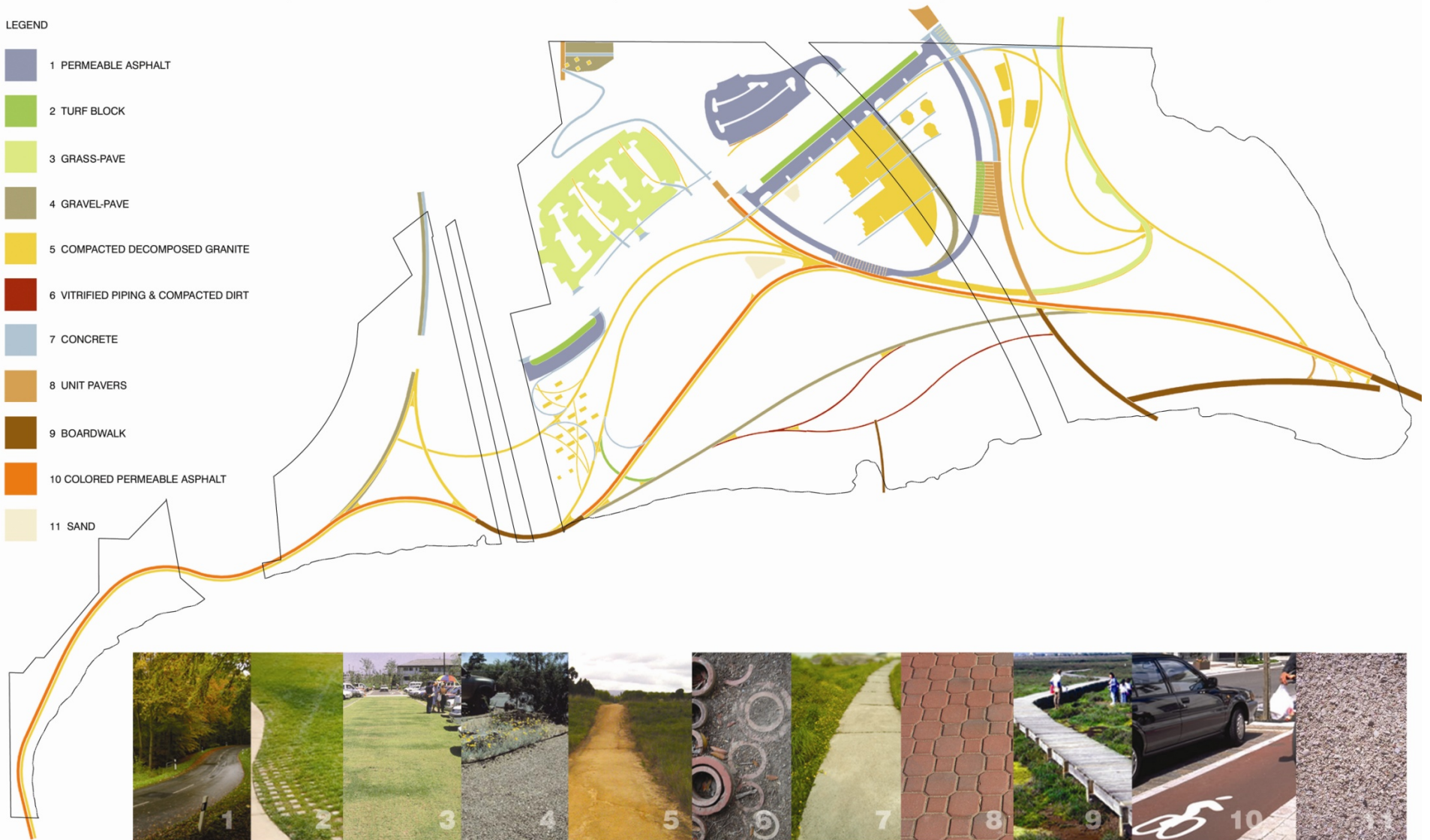
KEY BOTANICAL NAME	COMMON NAME	QUANTITY
3 <i>Frasera salicifolia</i>	Oregon Ash	2
9 <i>Populus tremuloides</i>	Fremont Cottonwood	7
22 <i>Rosa californica</i>	Wild Rose	2
19 <i>Laymania triloboides</i>	Crooking Willows	38
18 <i>Carex bartramii</i>	Santa Barbara Sedge	38
14 <i>Arenaria douglasiana</i>	Margaret	5
5 <i>Rubus ursinus</i>	California Blackberry	1
21 <i>Vitis californica</i>	Wild Grape	1





LEGEND

- 1 PERMEABLE ASPHALT
- 2 TURF BLOCK
- 3 GRASS-PAVE
- 4 GRAVEL-PAVE
- 5 COMPACTED DECOMPOSED GRANITE
- 6 VITRIFIED PIPING & COMPACTED DIRT
- 7 CONCRETE
- 8 UNIT PAVERS
- 9 BOARDWALK
- 10 COLORED PERMEABLE ASPHALT
- 11 SAND





key material	location	dimension	frequency	speed	texture	visibility	permeability
1 permeable asphalt	daily parking	43': 25' lane+ 18' stall	high	normal	smooth	high	low
	Loop Road	20': one-way road					
2 turfblock	weekly parking	18' stall	weekly	slow	medium	medium	medium
3 grasspave	overflow parking	43': 25' lane+ 18' stall	low	very slow	coarse	low	high
	Amphimeadow maintenance road	20'					
4 gravelpave	Lion Swale maintenance road	20'	low	very slow	coarse	low	high
	upper riparian terrace	8'					
5 compacted dg	plaza	50'	medium	medium	medium	high	medium
	park paths	18:10+8					
	in the park	10' & 8'					
6 vitrified piping	riparian terrace paths	5'	low	slow	coarse	medium	high
7 concrete	vista point path	8'	high	fast	smooth	high	low
	10th street entry	15'					
	7th street entry	8'					
8 unit pavers	10th street entry	47-20'	high	fast	smooth	high	low
9 boardwalk	acorn boardwalk	20'	low	slow	coarse	high	high
	fishing deck	16'					
	fishing pier	8'					
	river overlook	15'					
10 colored permeable asphalt	riverwalk-bike path	20:10+2+8	high	fast	smooth	high	low
11 sand	playgrounds	-	medium	slow	smooth	medium	high



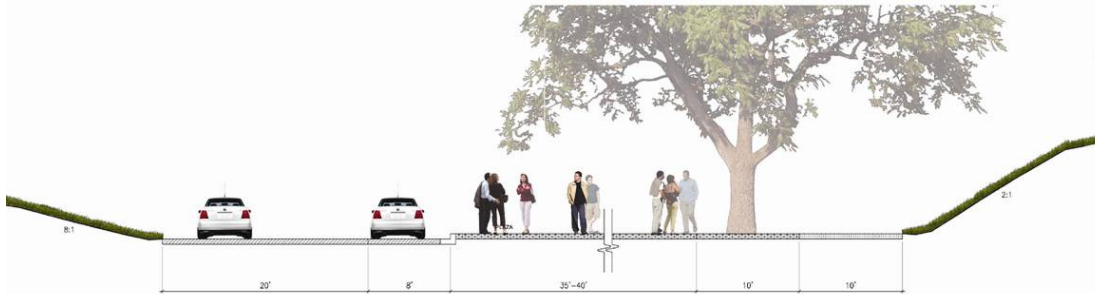
① RIVERWALK



ⓧ ACORN BOARDWALK



② FISHING DECK

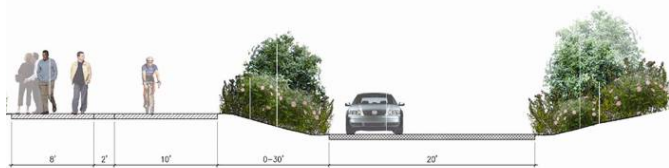


ⓧ DROP-OFF PLAZA

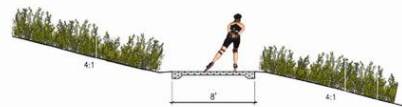


③ RIPARIAN TERRACES

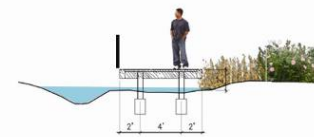
④ RIPARIAN TERRACES



⑧ LOOP ROAD



⑦ VISTA BLUFF



⑥ FISHING PIER



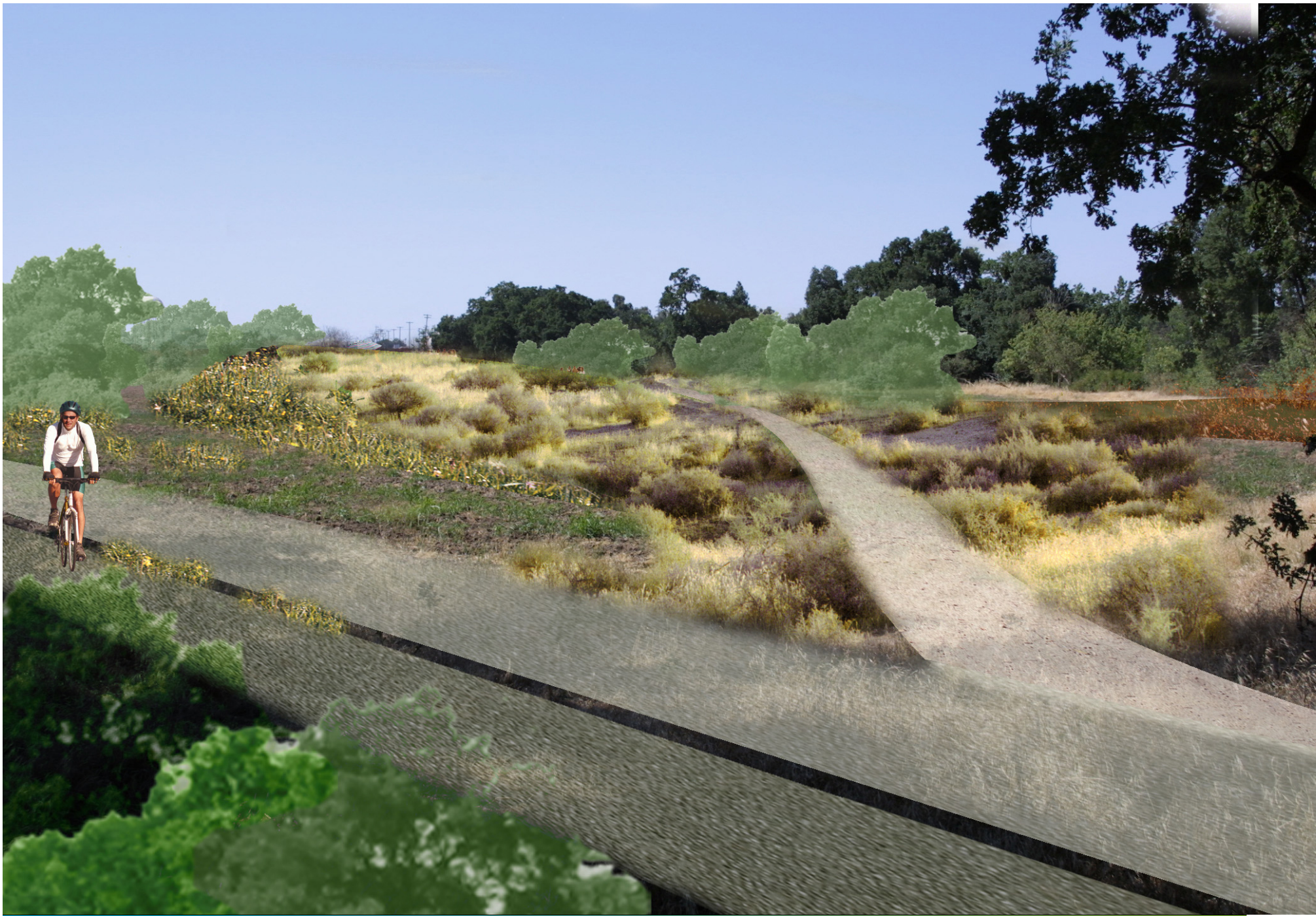
⑤ UPPER RIPARIAN TERRACES





tuolumne river regional park | park character





tuolumne river regional park | park seasons : winter

AECOM



tuolumne river regional park | river edge under existing remnant valley oaks



tuolumne river regional park | river edge at riparian terraces



before



after





tuolumne river regional park | riparian terraces



harbor

LA waterfront

los angeles, ca



LA waterfront | the working port

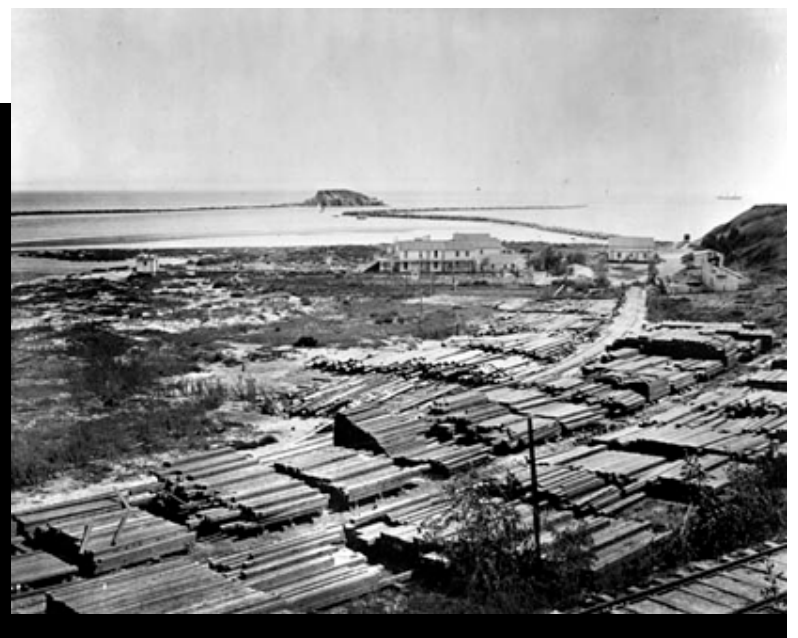
AECOM



LA waterfront | "bridge to breakwater"

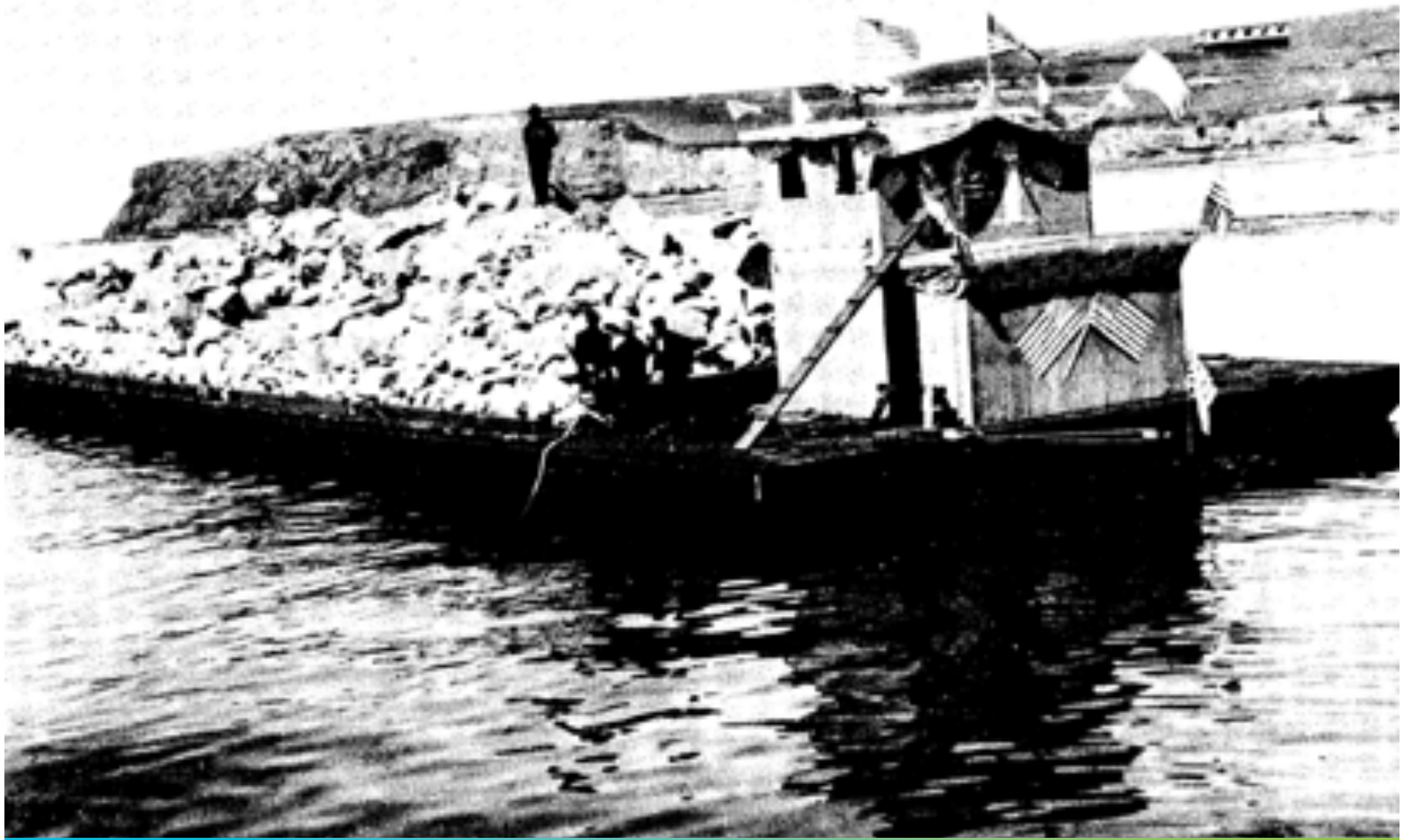


LA waterfront | building the port : a history of human intervention



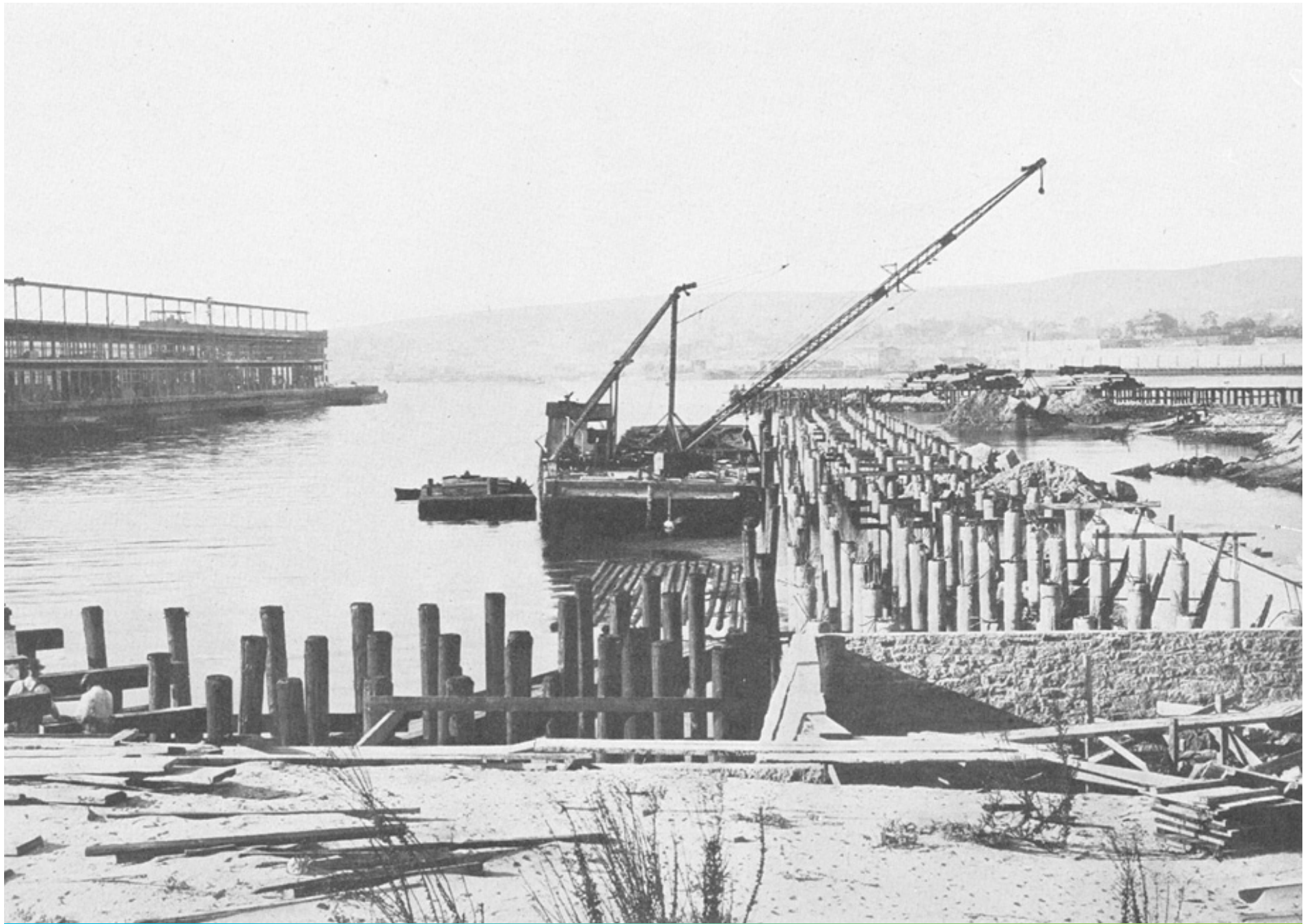
LA waterfront | building the port : mammoth wharf, 1893

First load of rock dumped for the
breakwater, 1899.





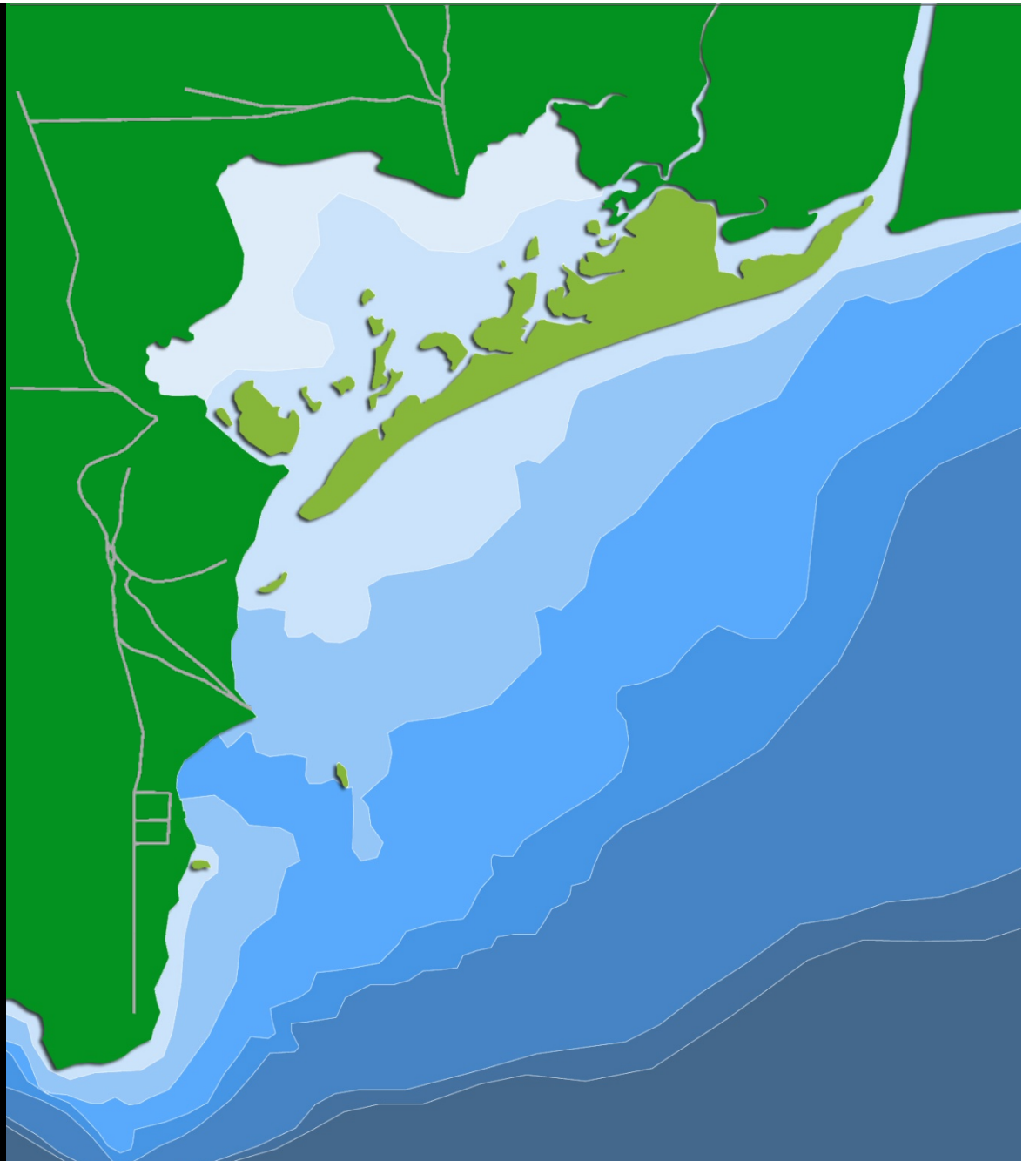
LA waterfront | building the port : building the breakwater, 1905



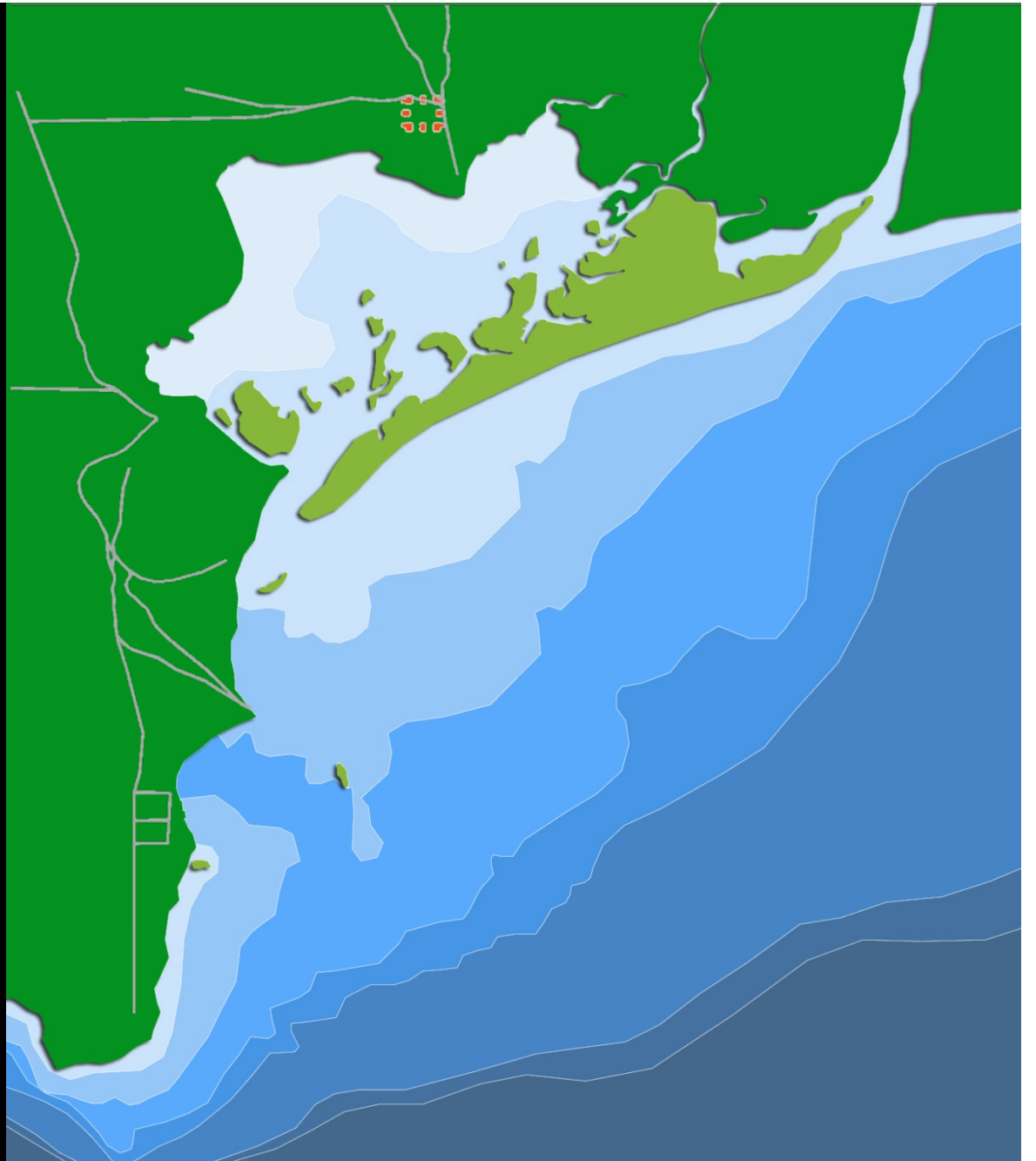
LA waterfront | building the port : wharf construction, 1925



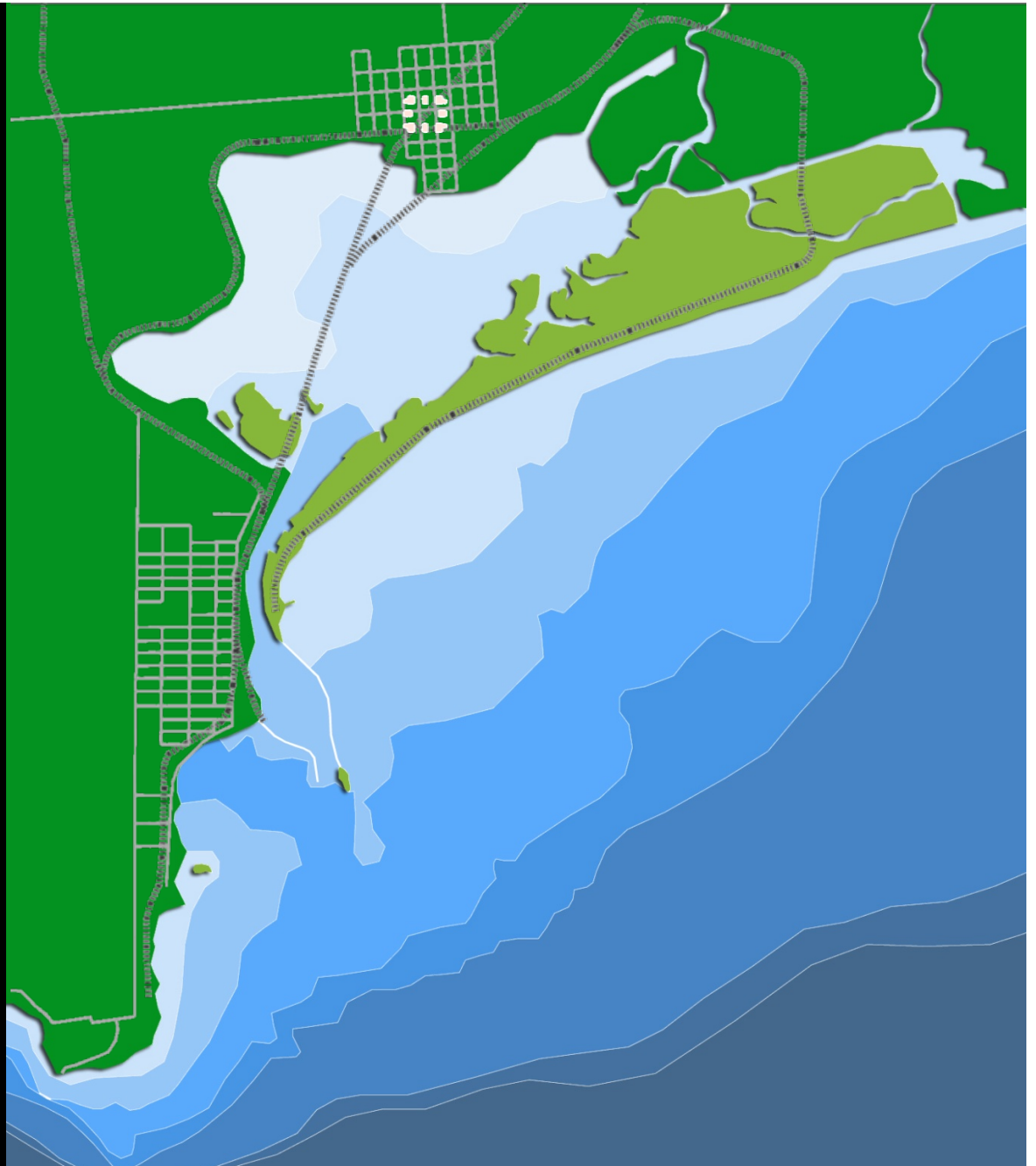
LA waterfront | building the port : filling berth, 1928



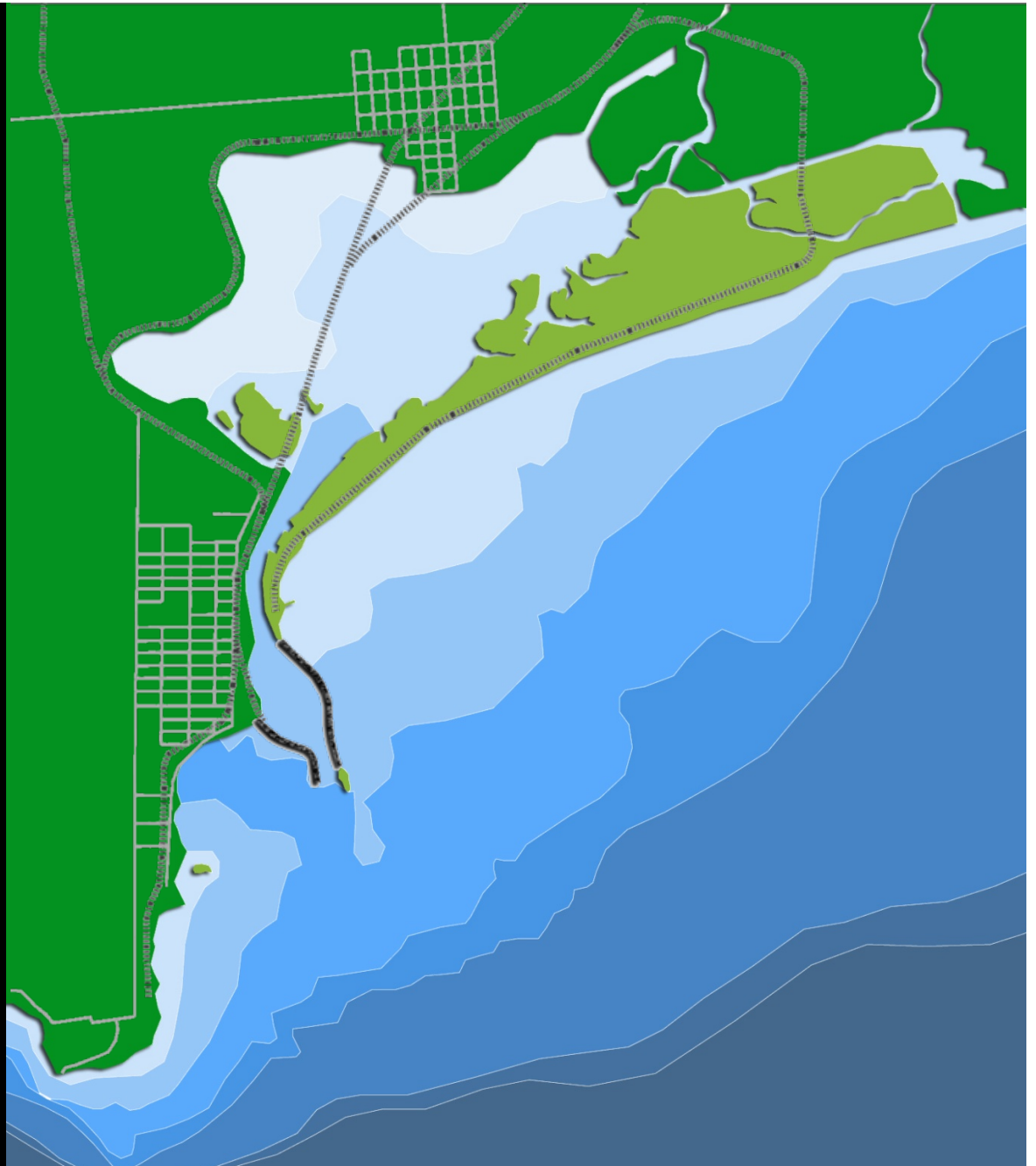
forecast lines breakwater dredge cut piles riprap built lines fill structure skin load & unload



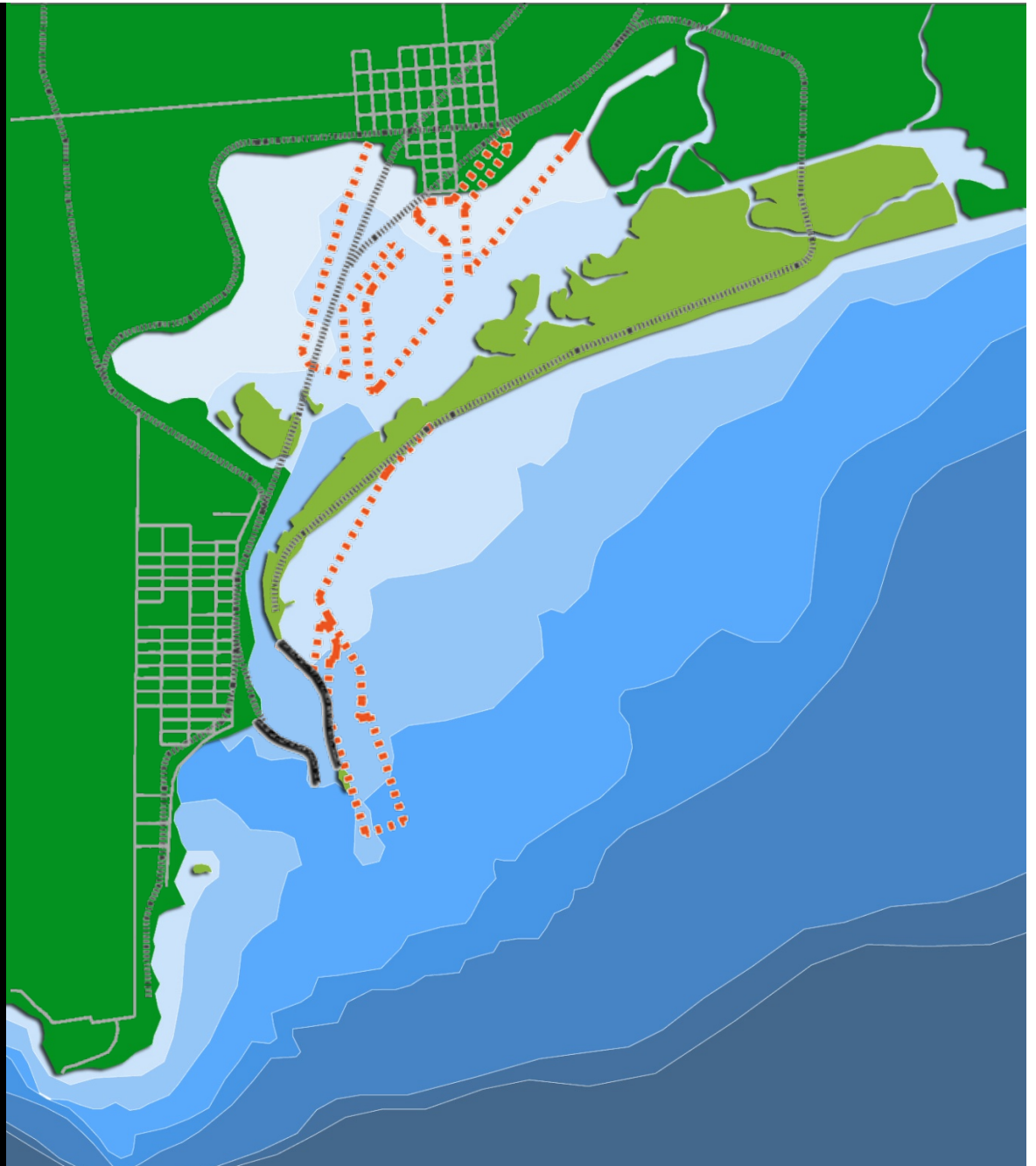
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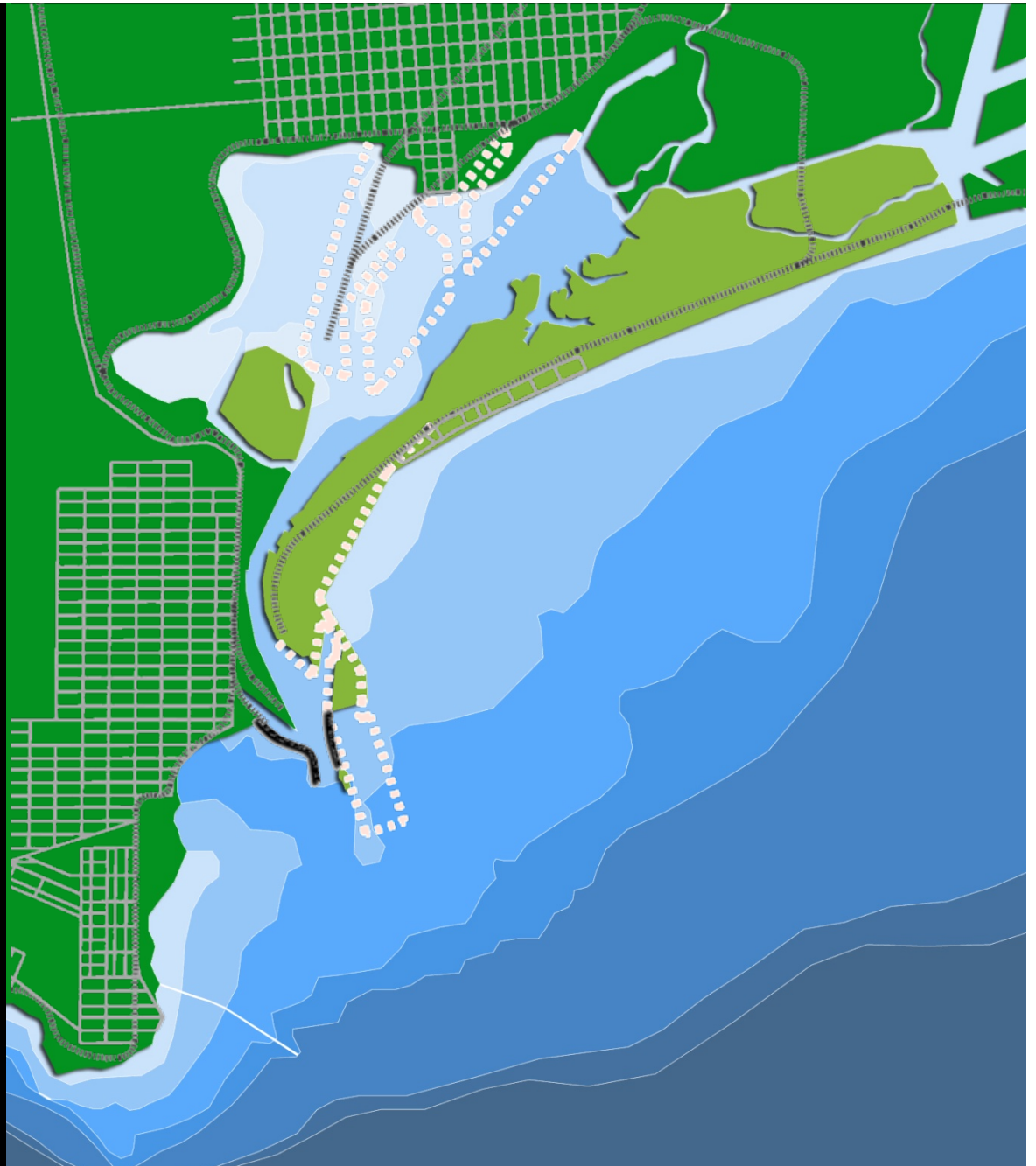
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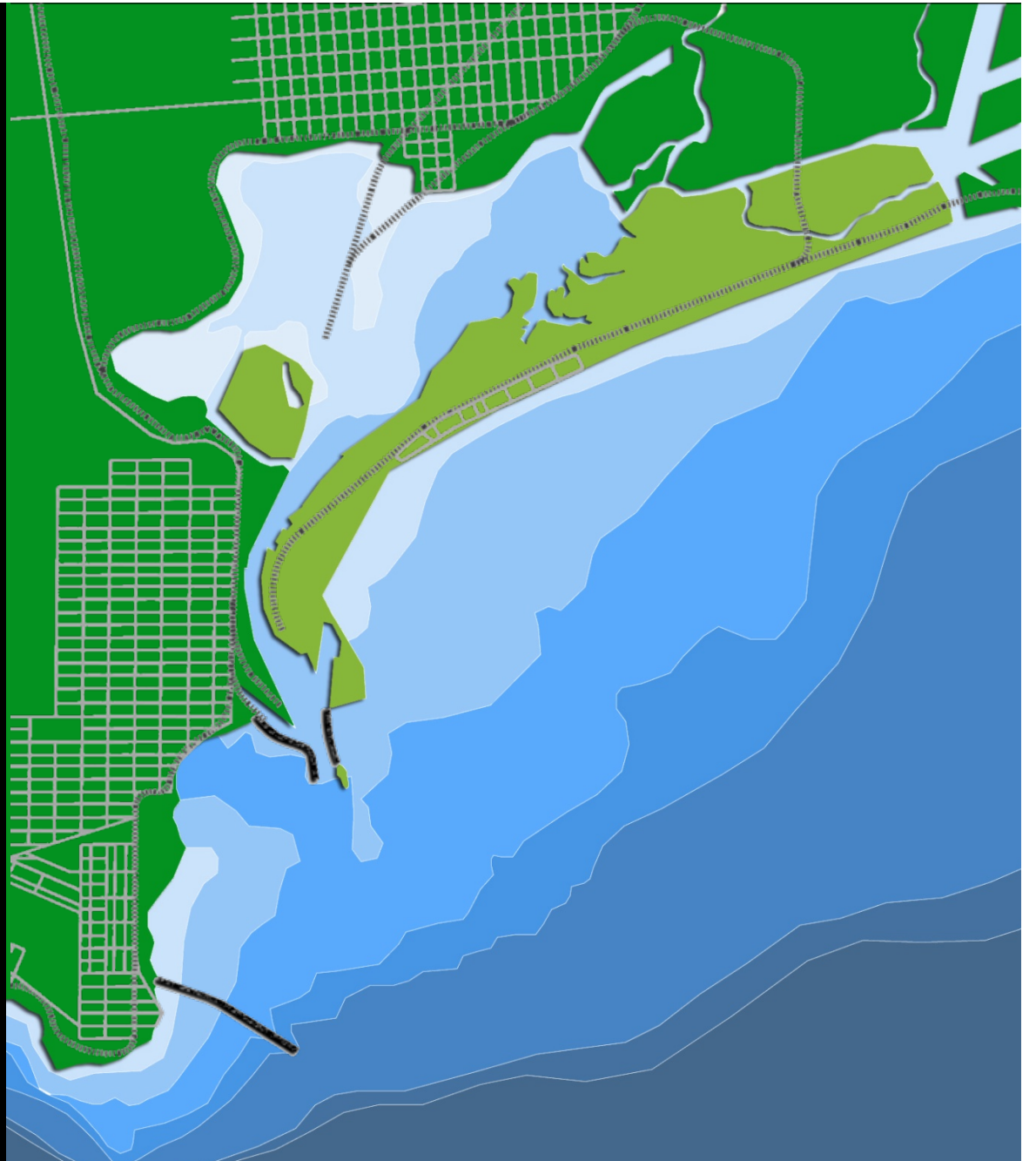
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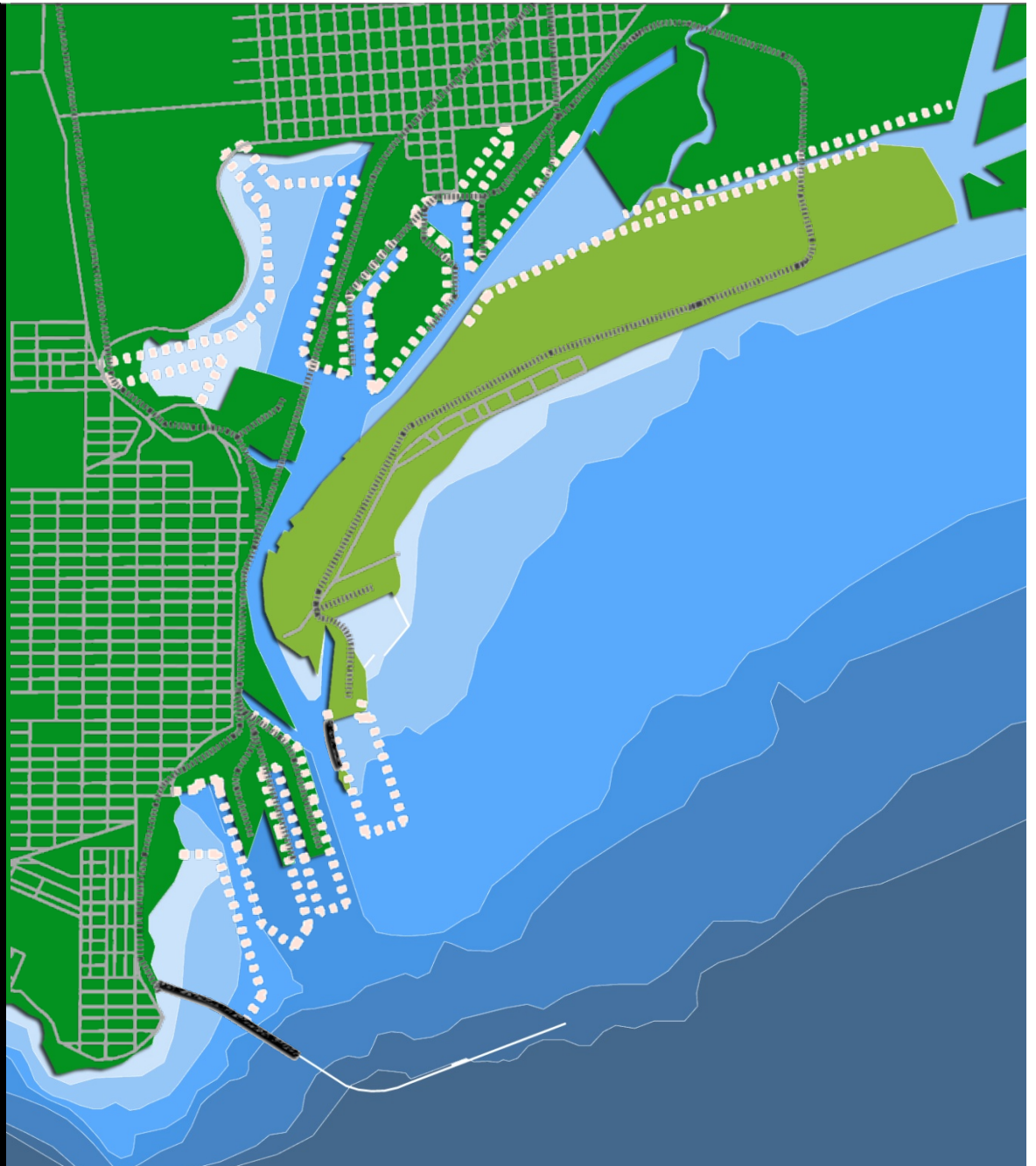
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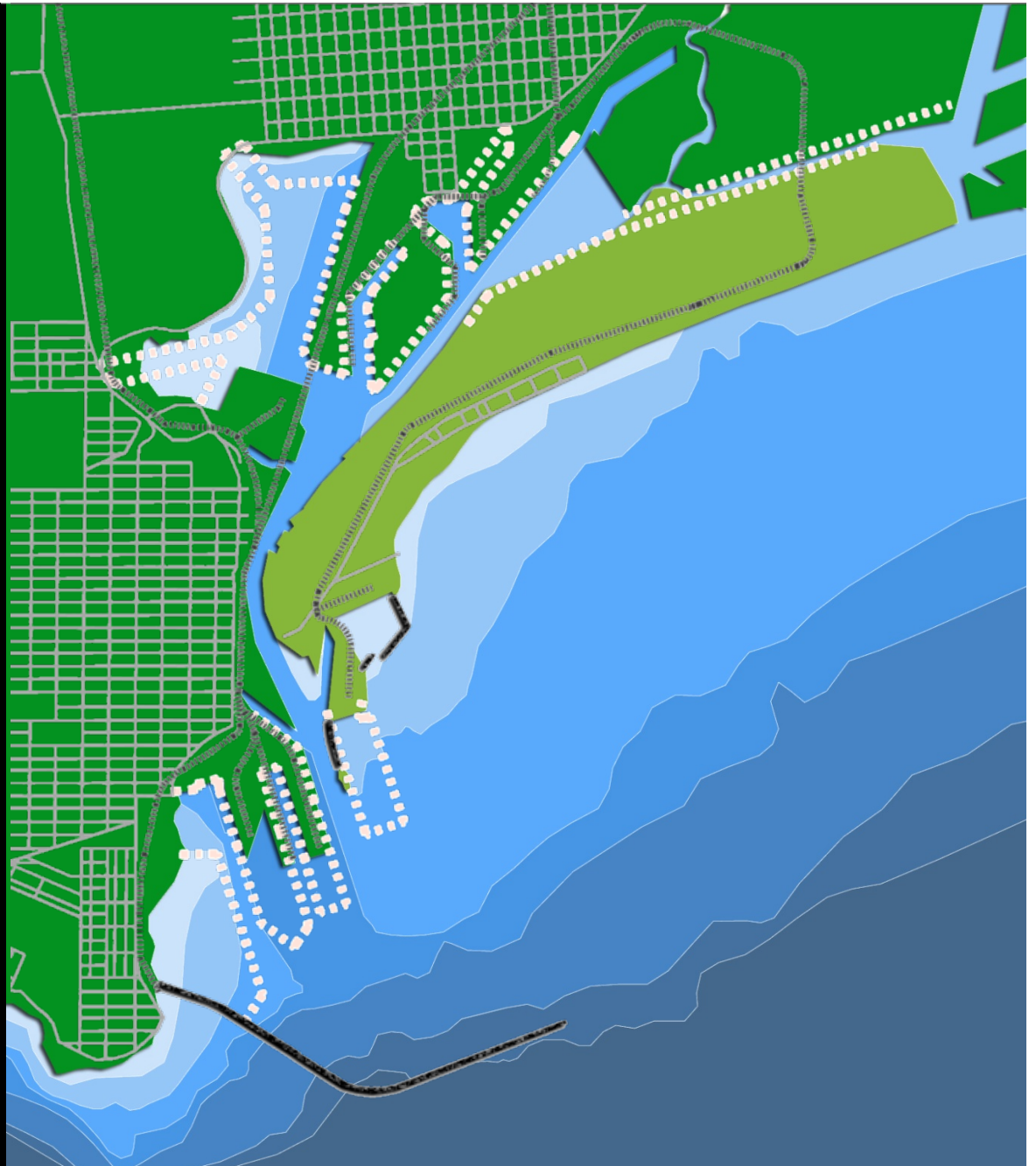
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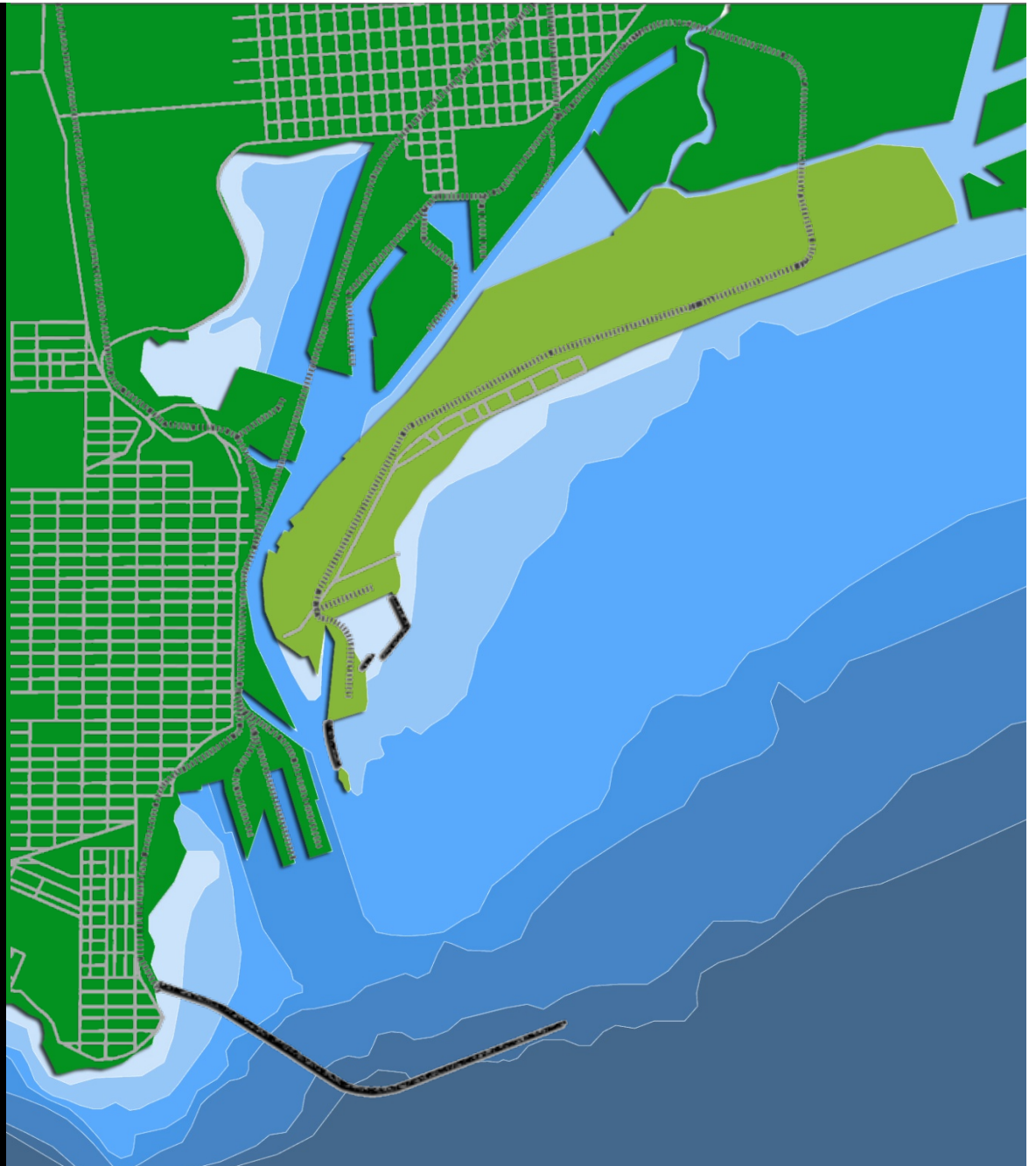
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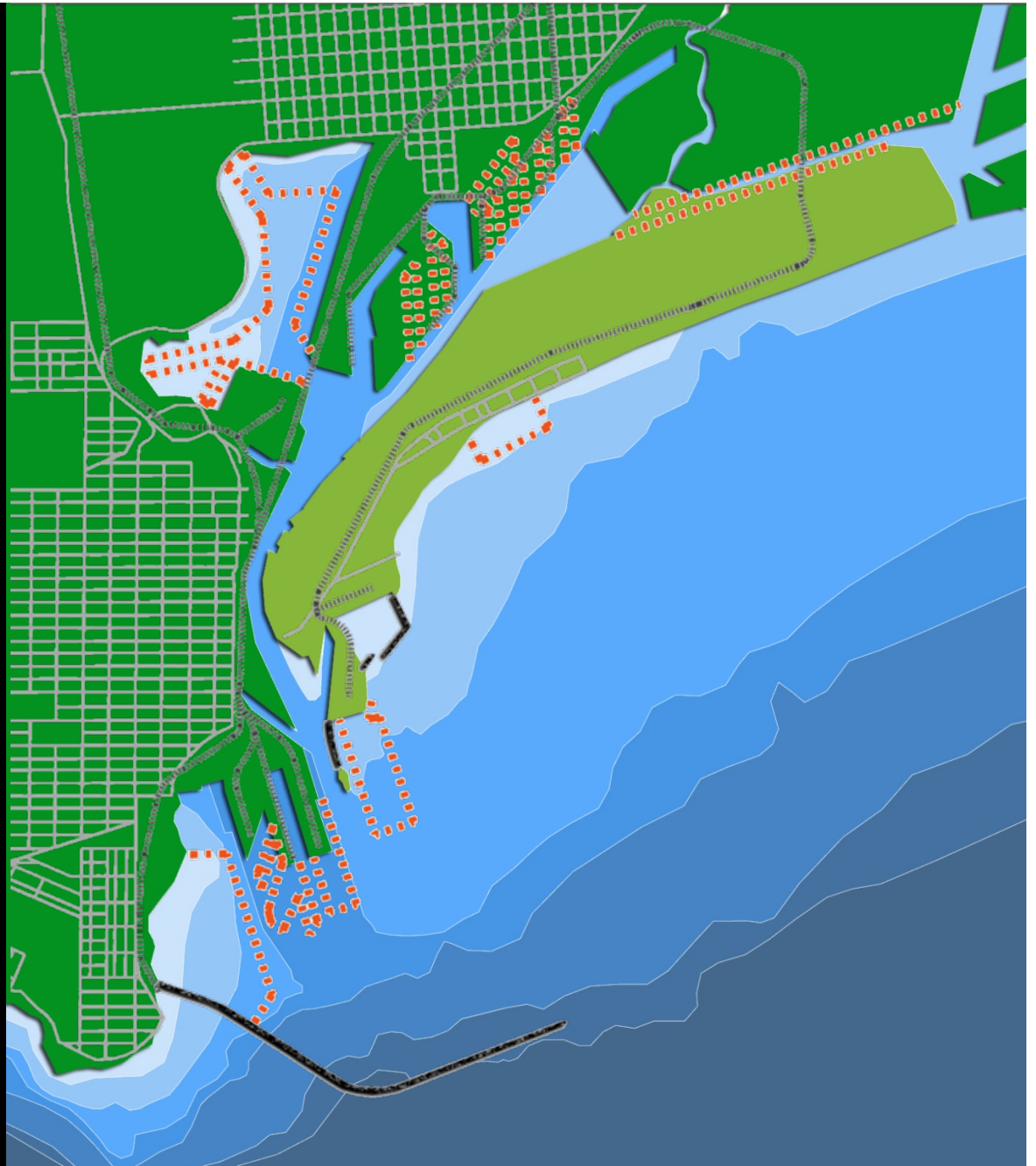
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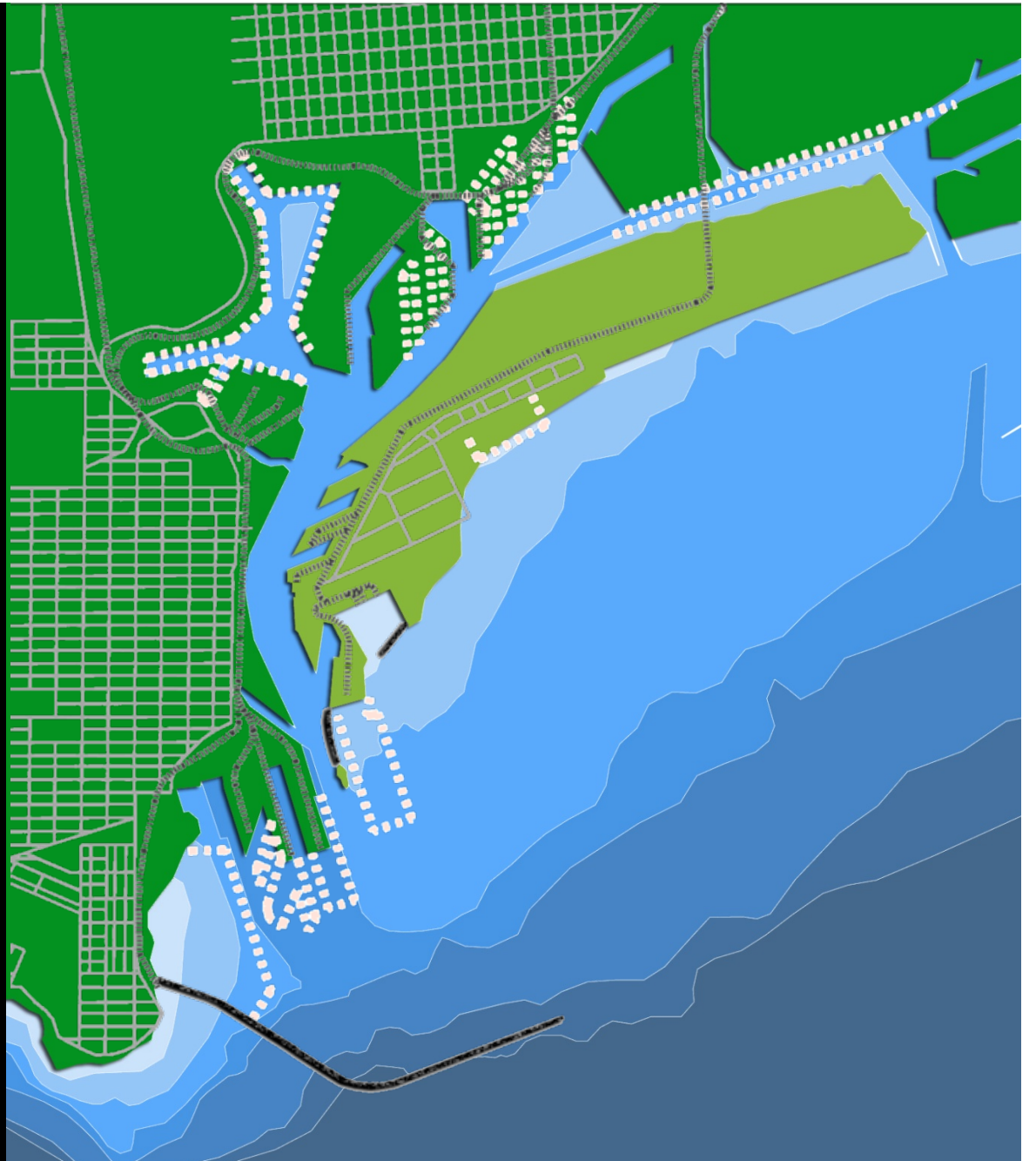
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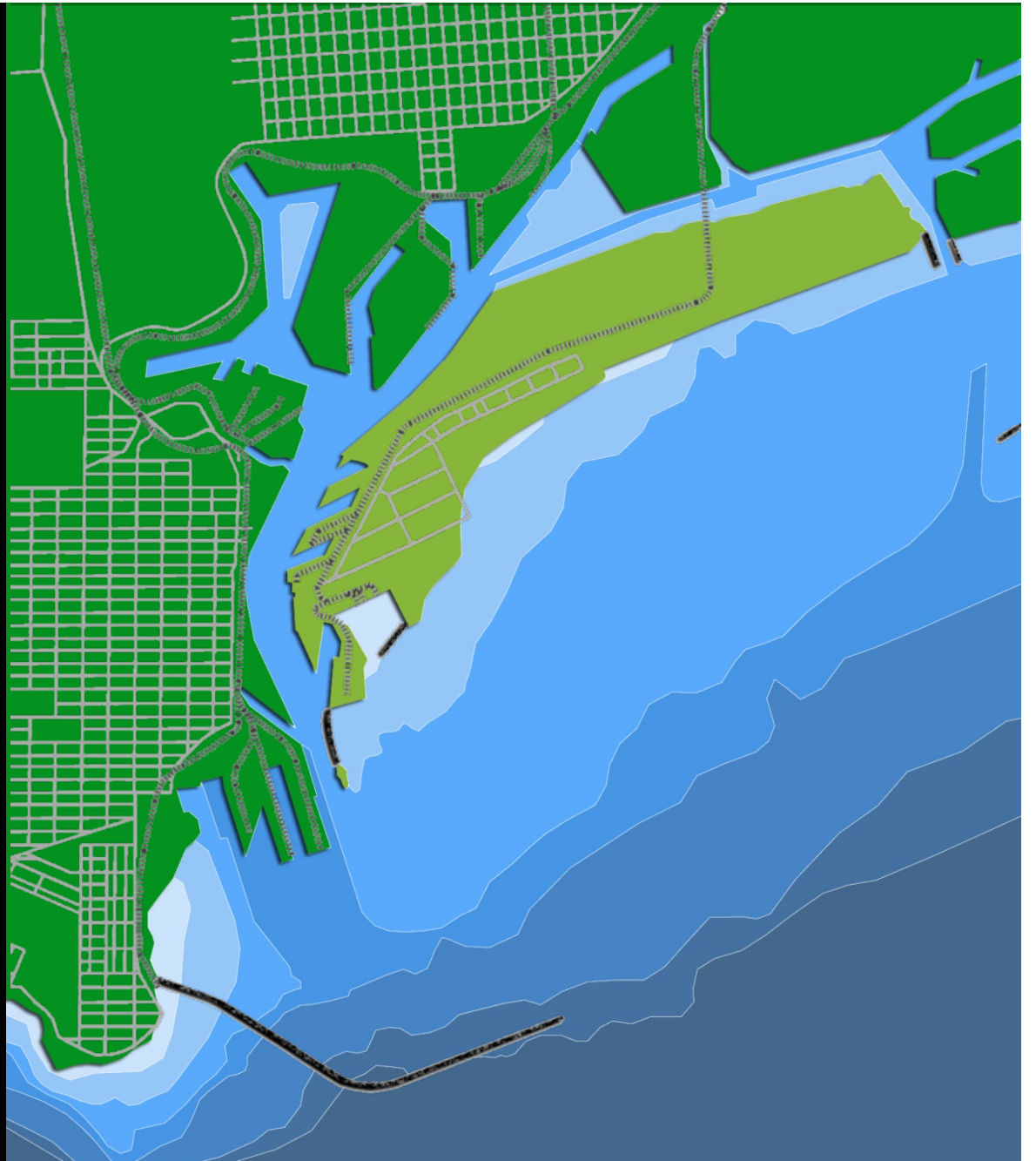
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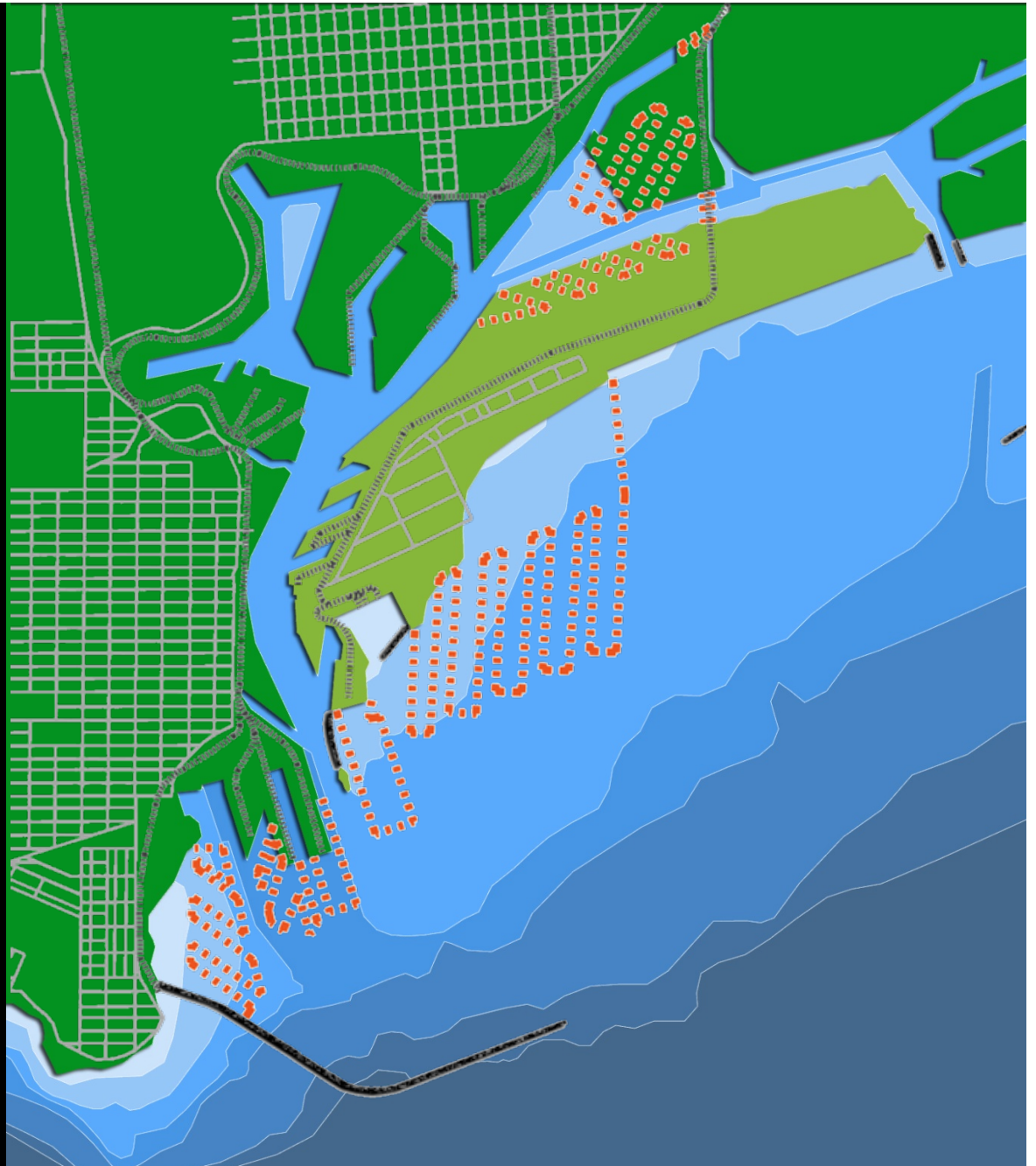
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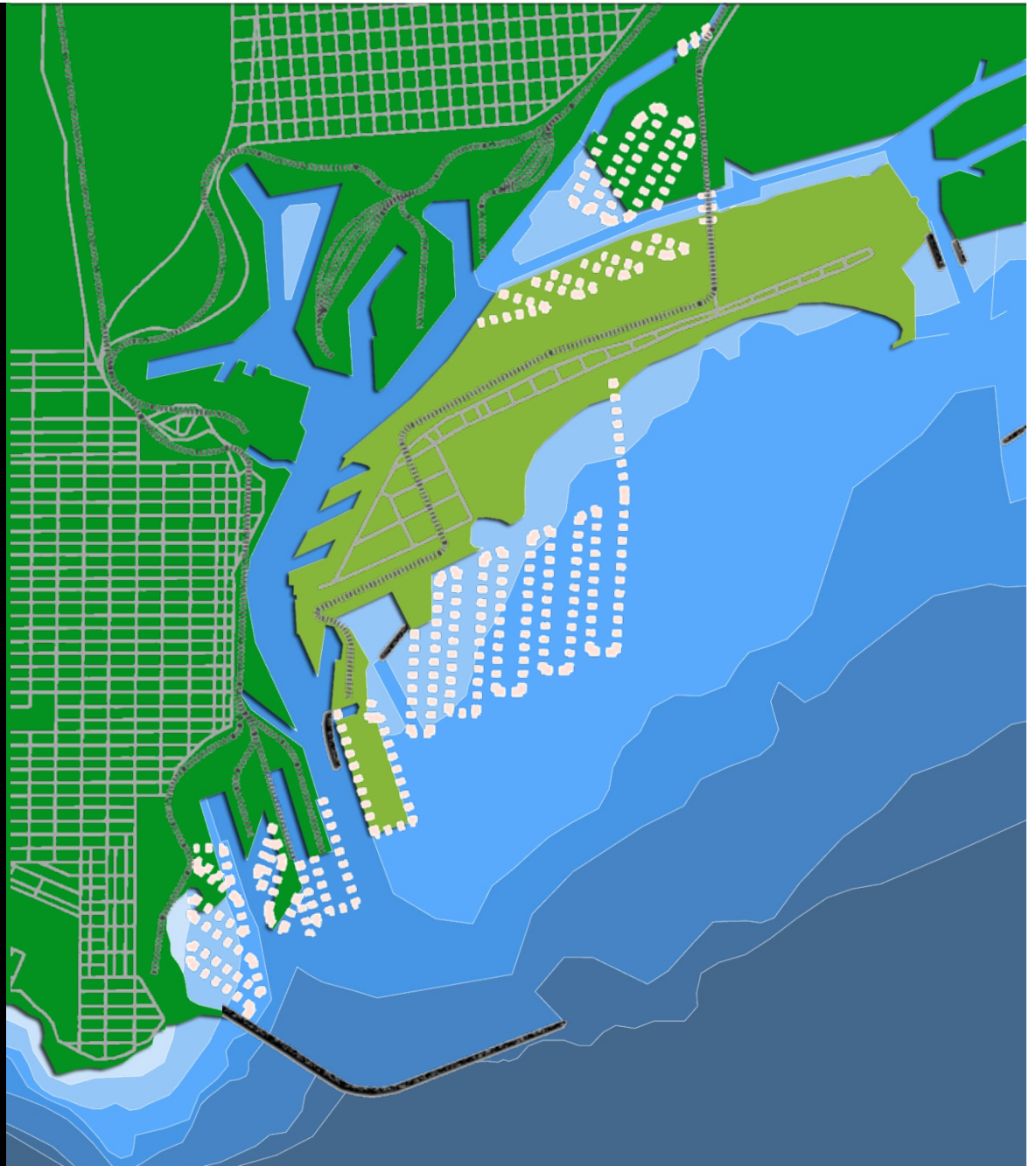
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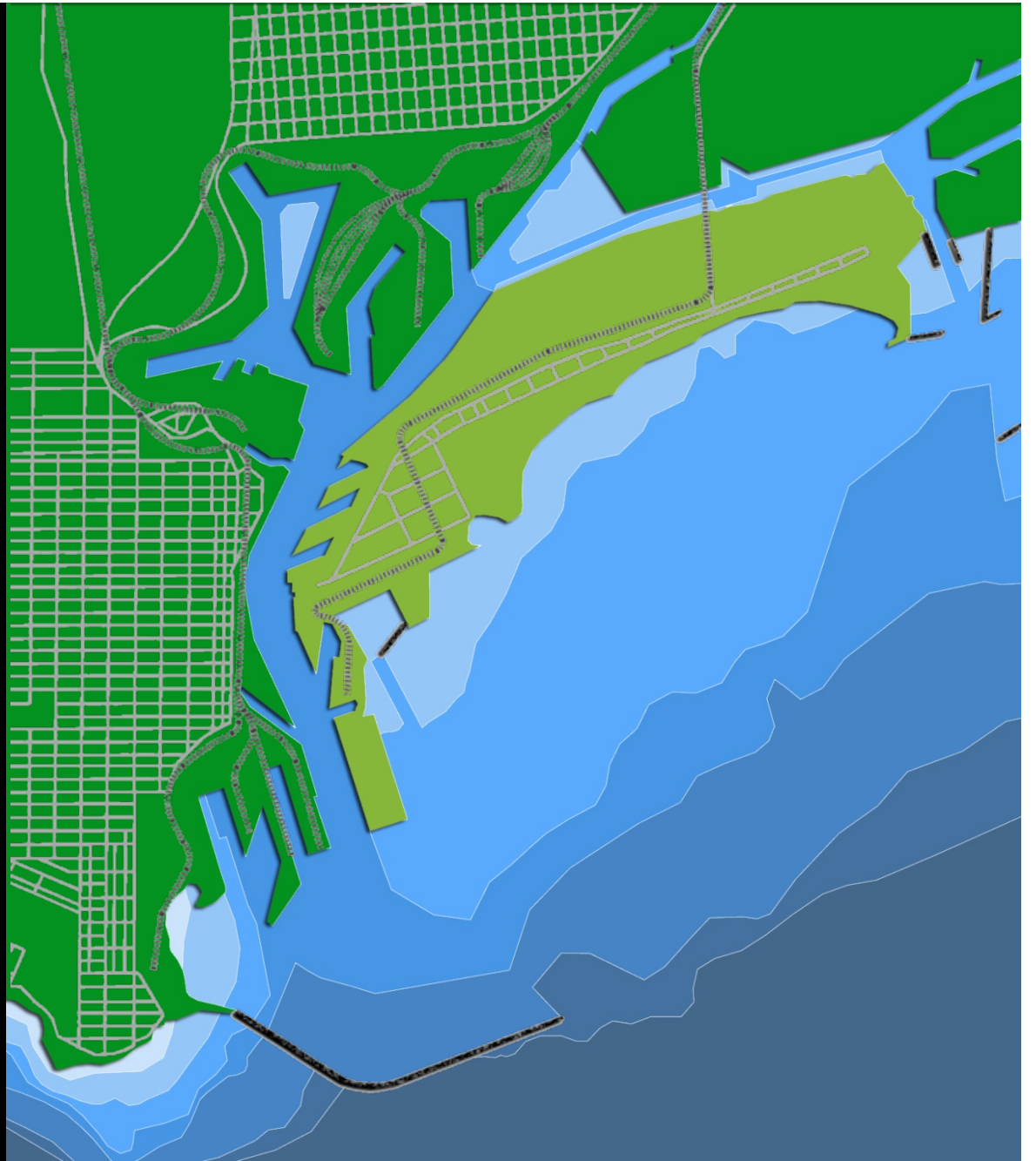
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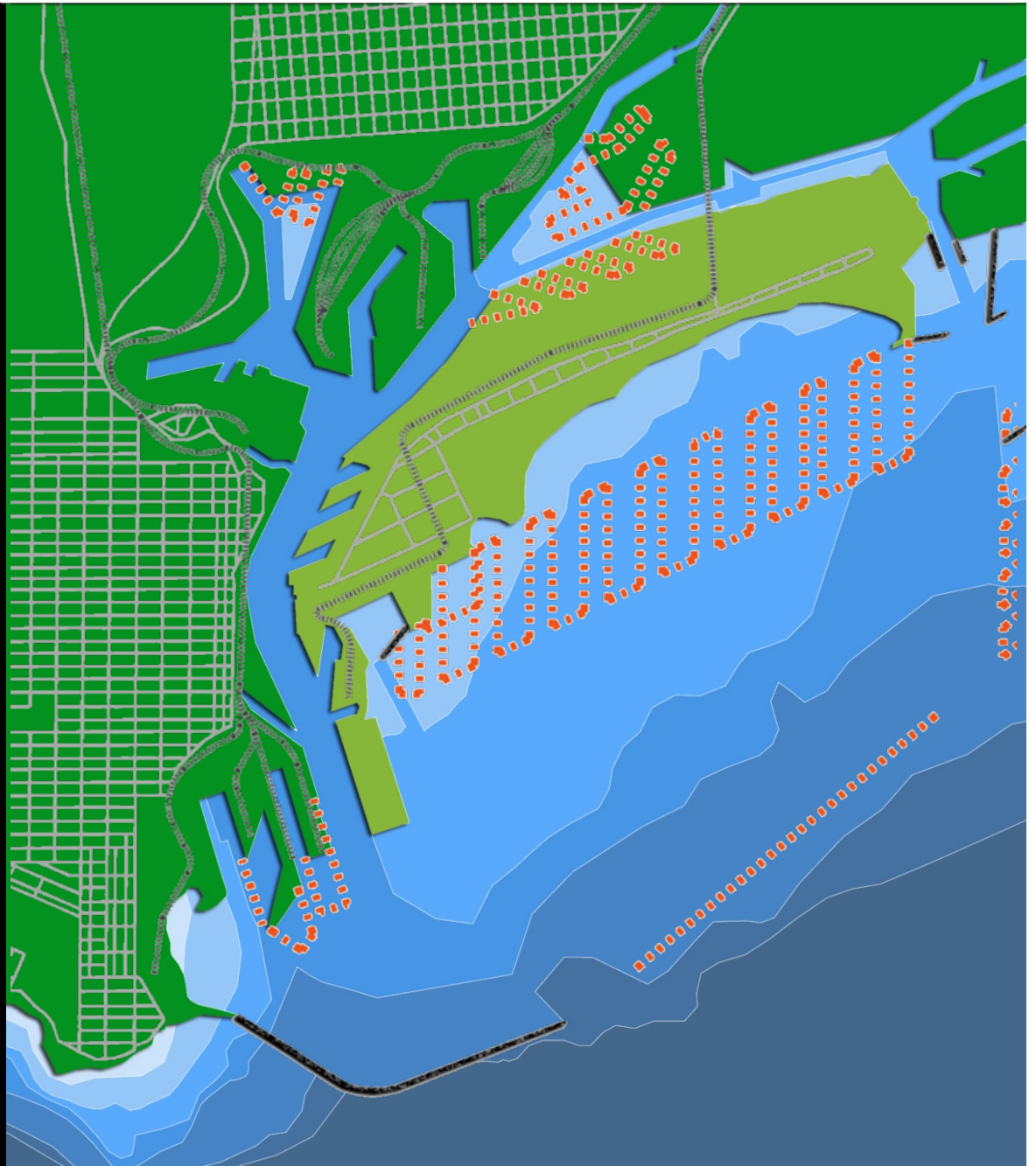
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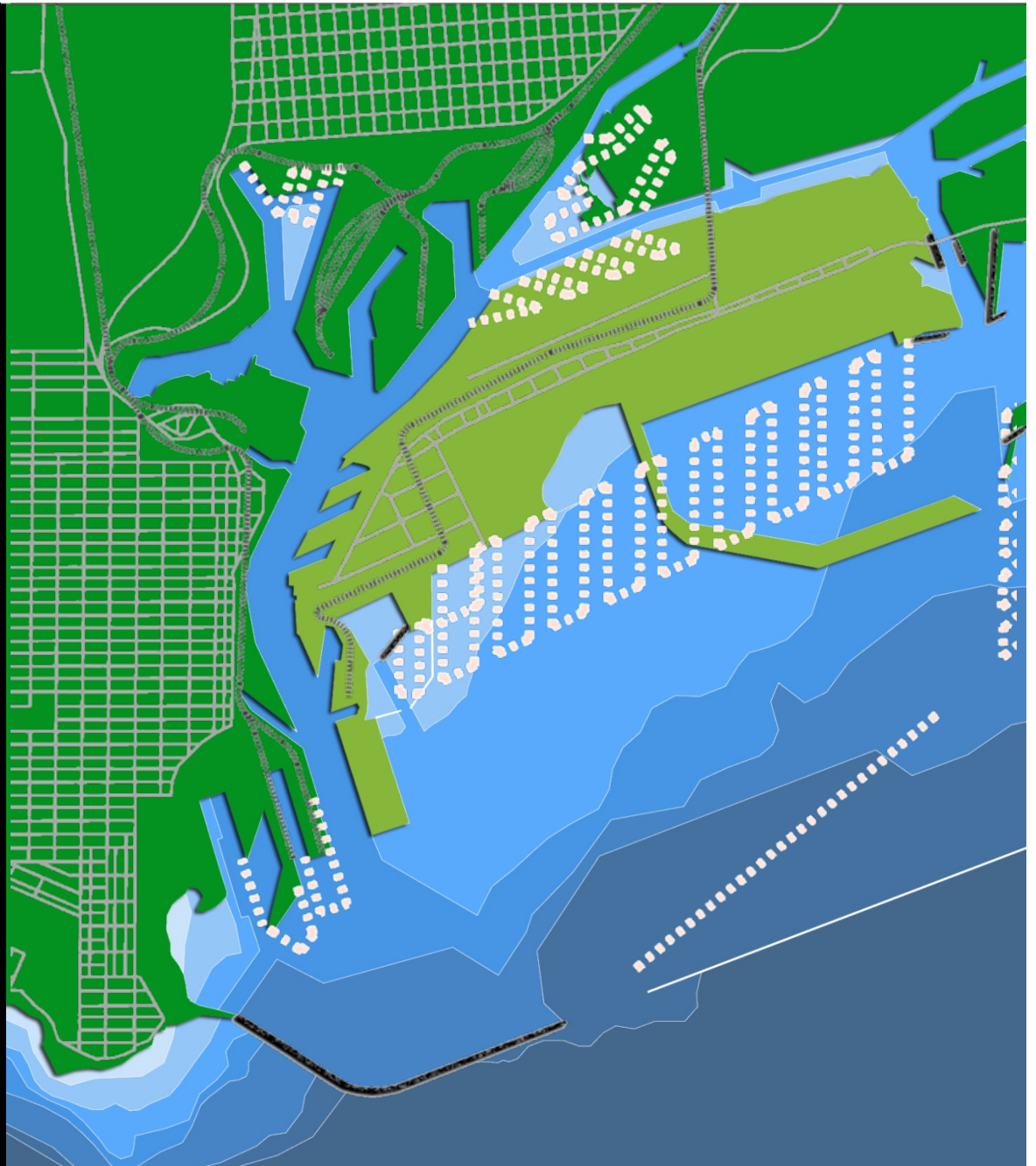
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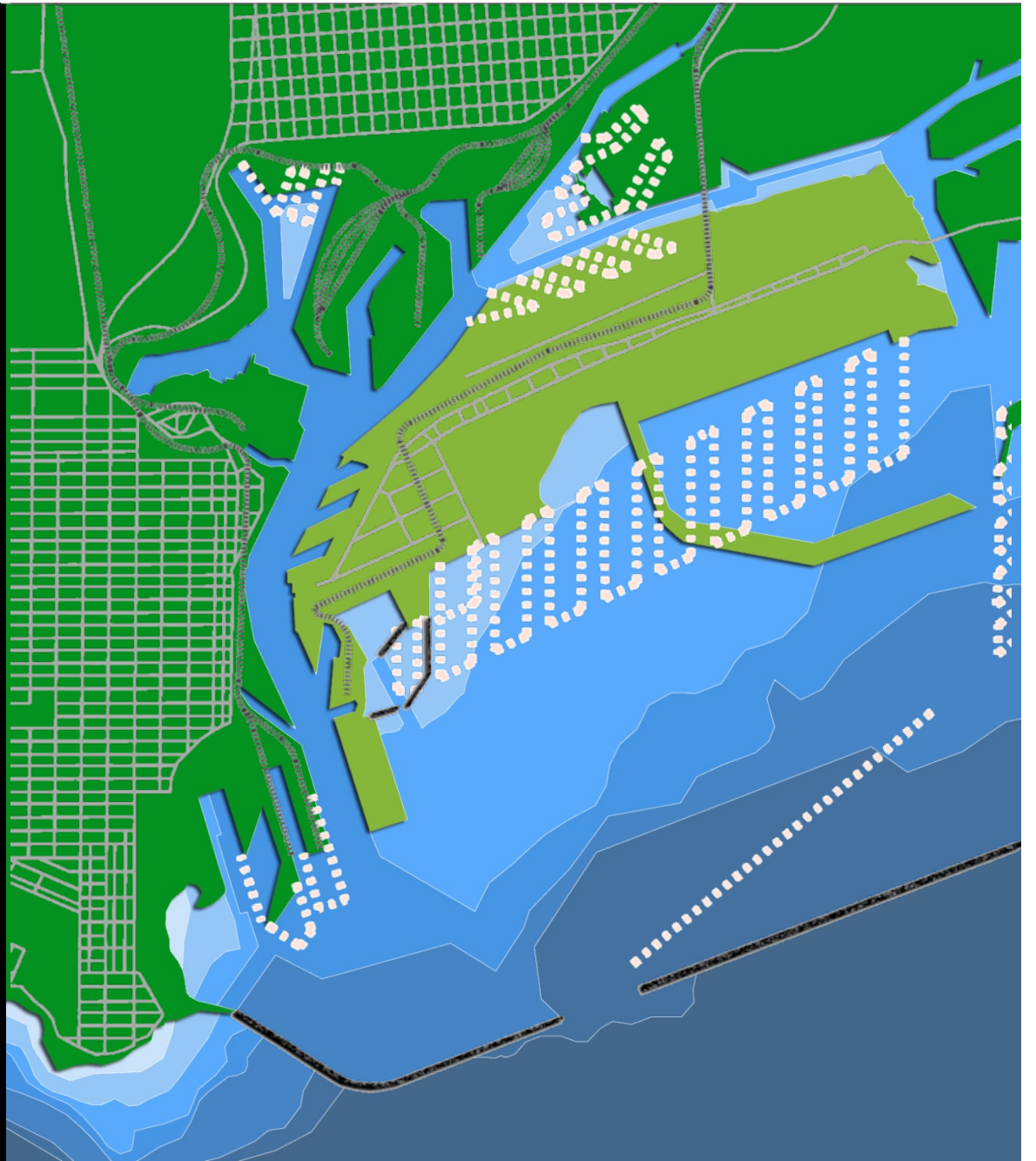
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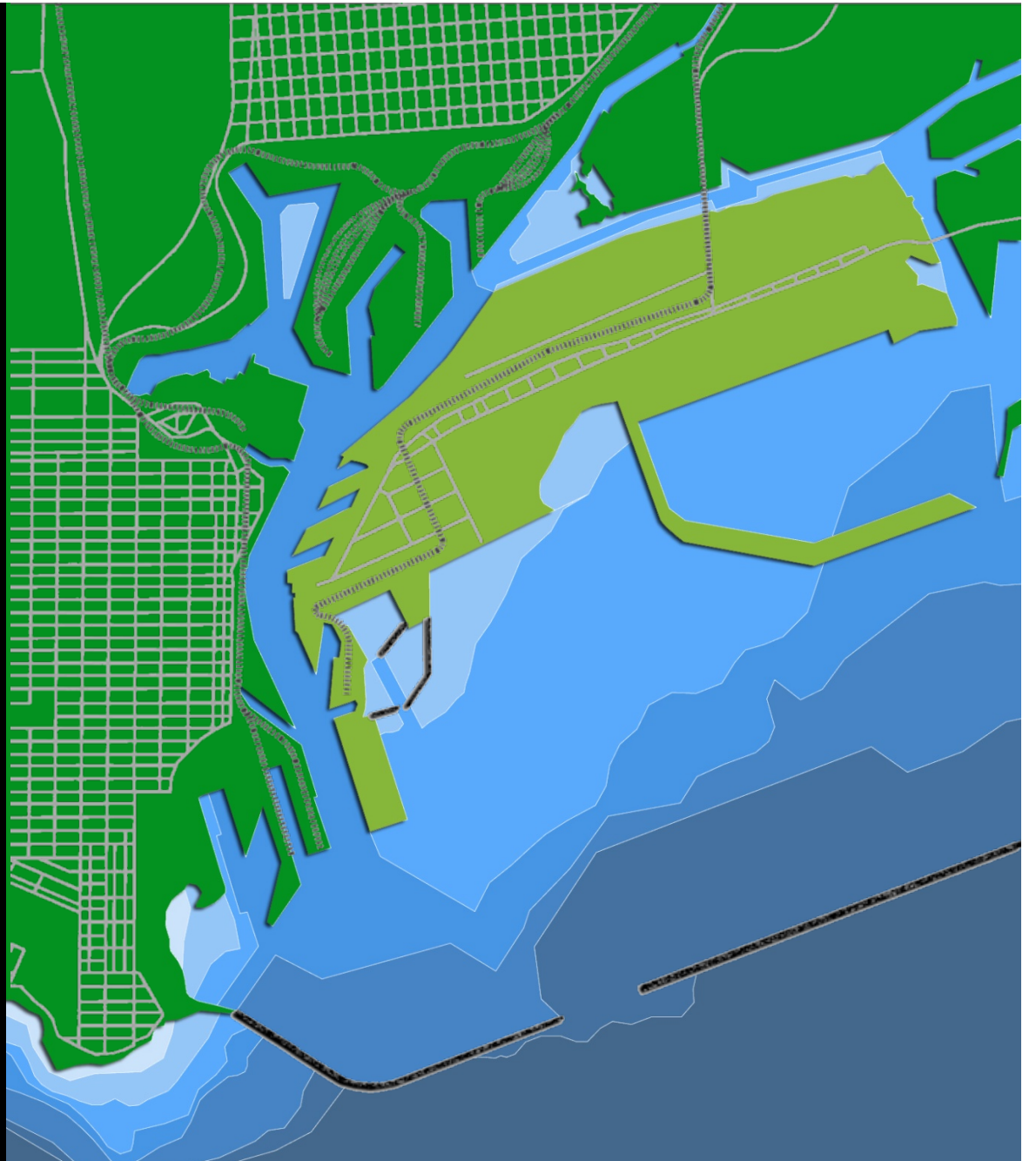
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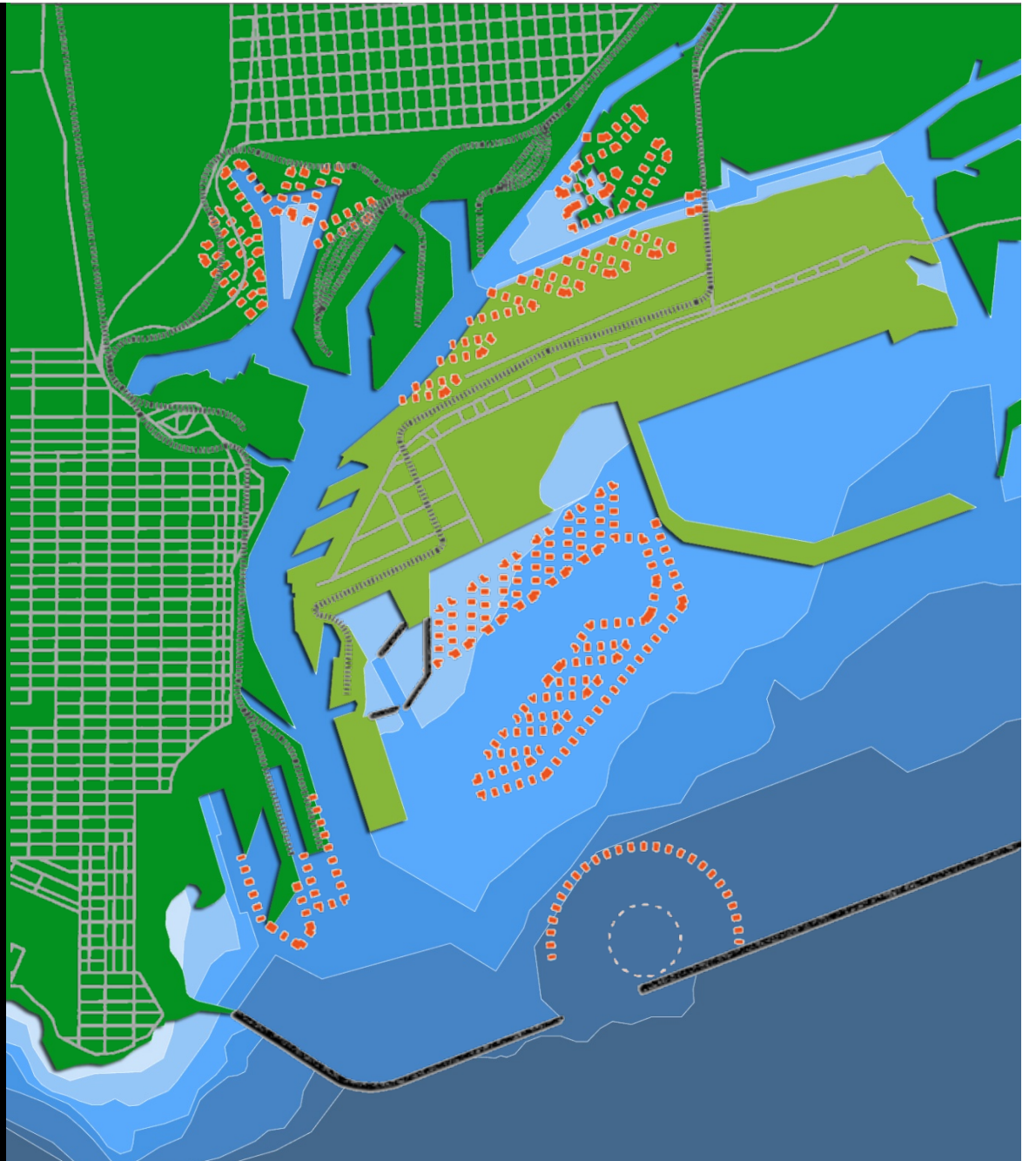
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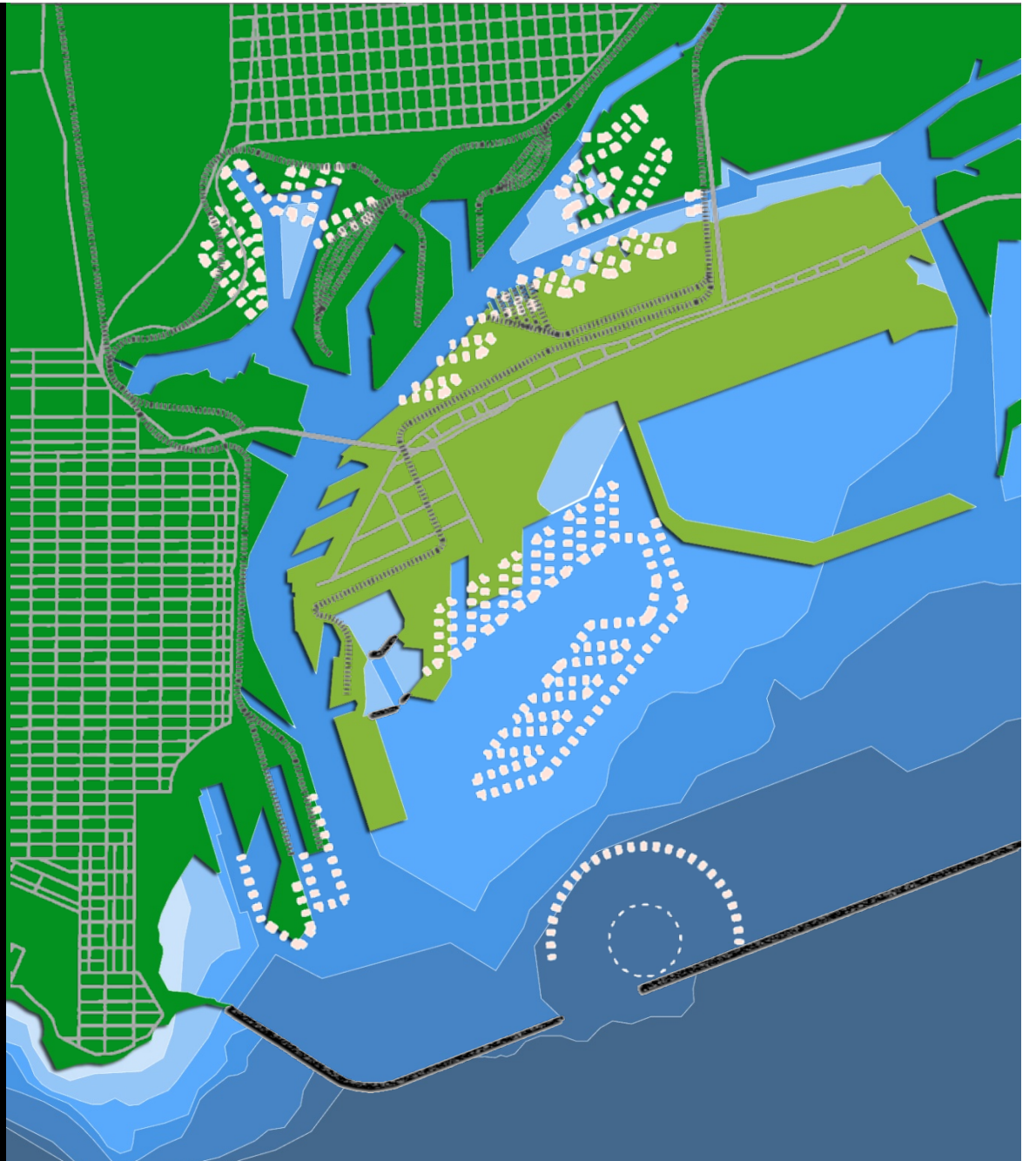
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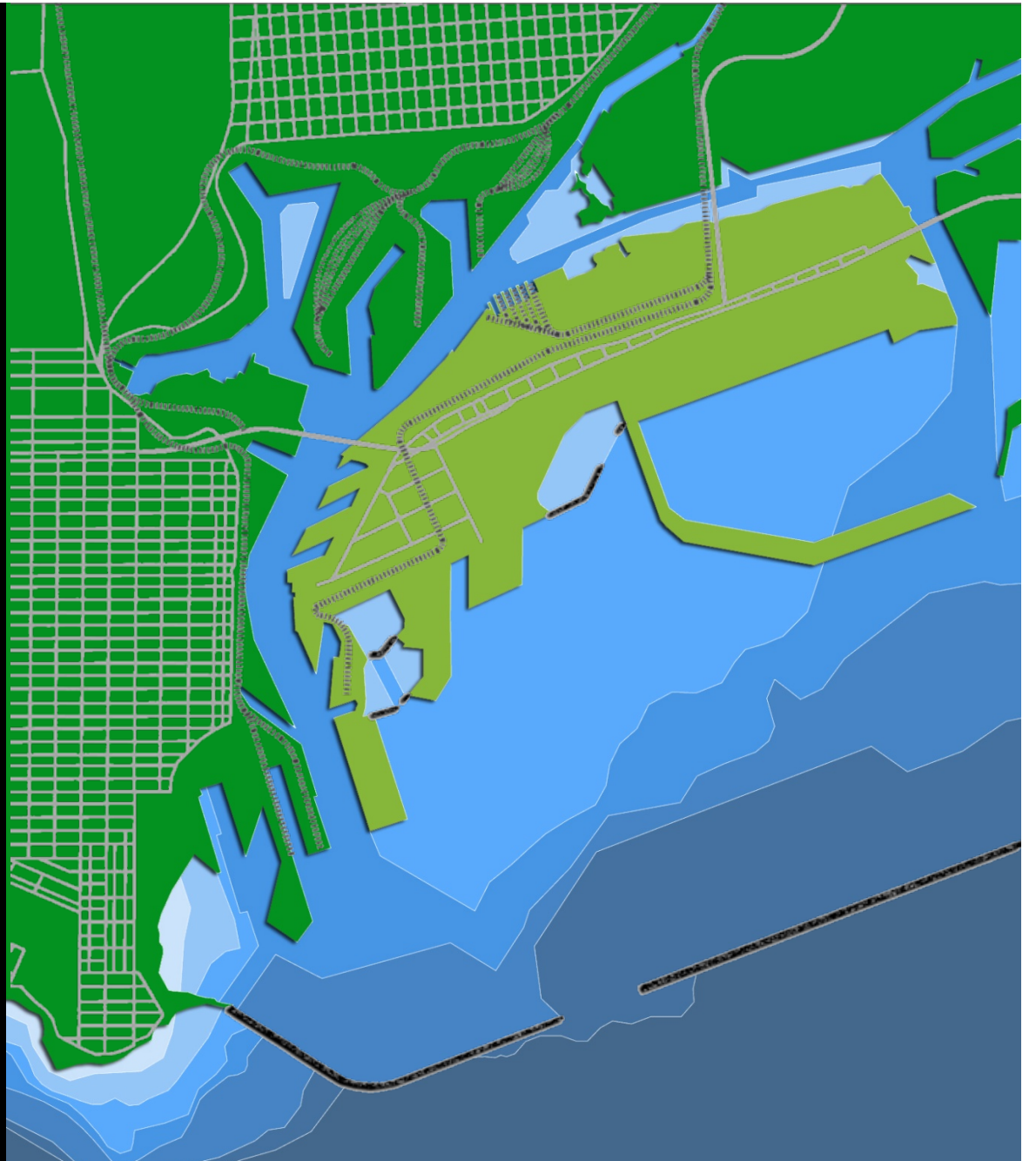
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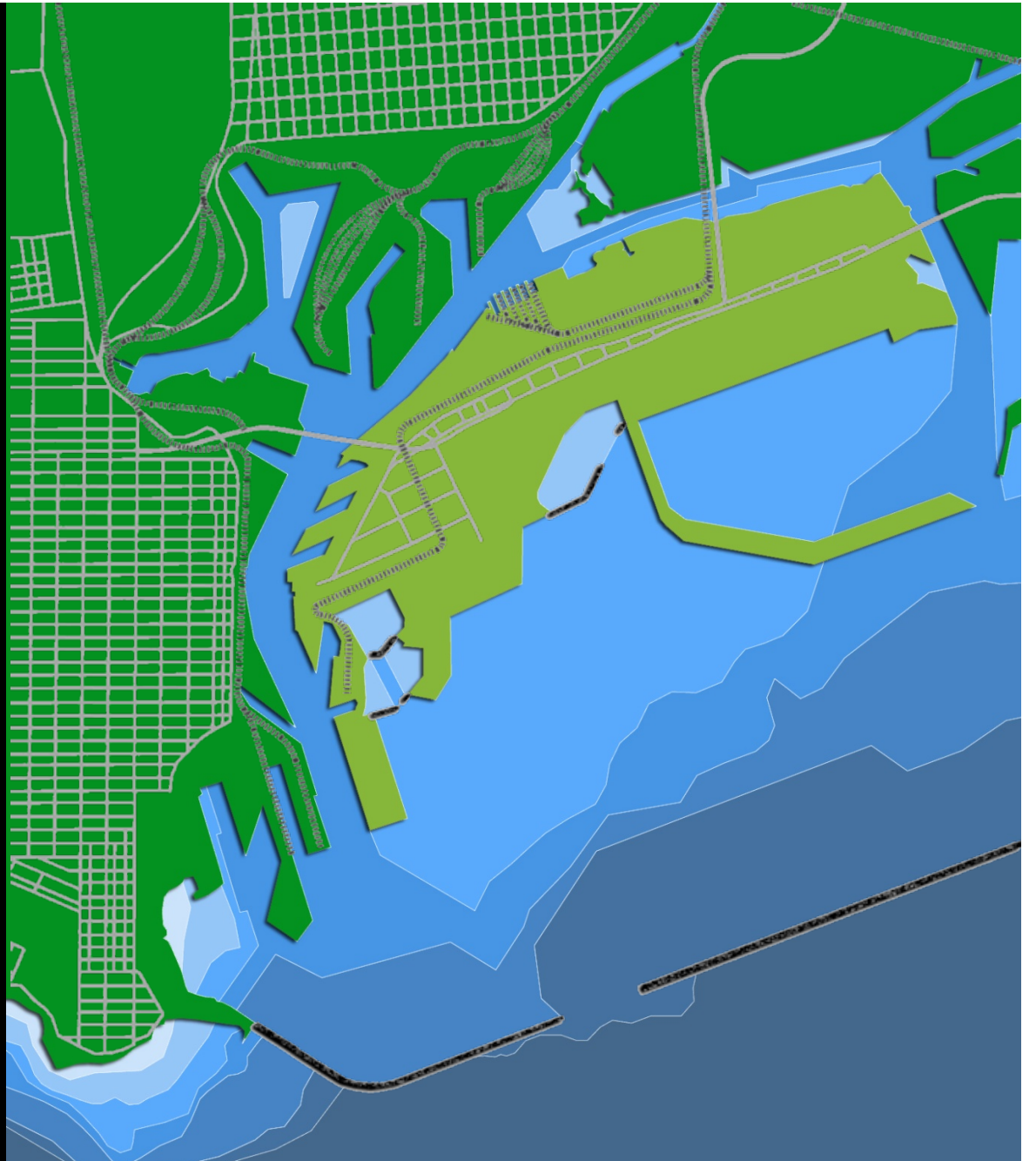
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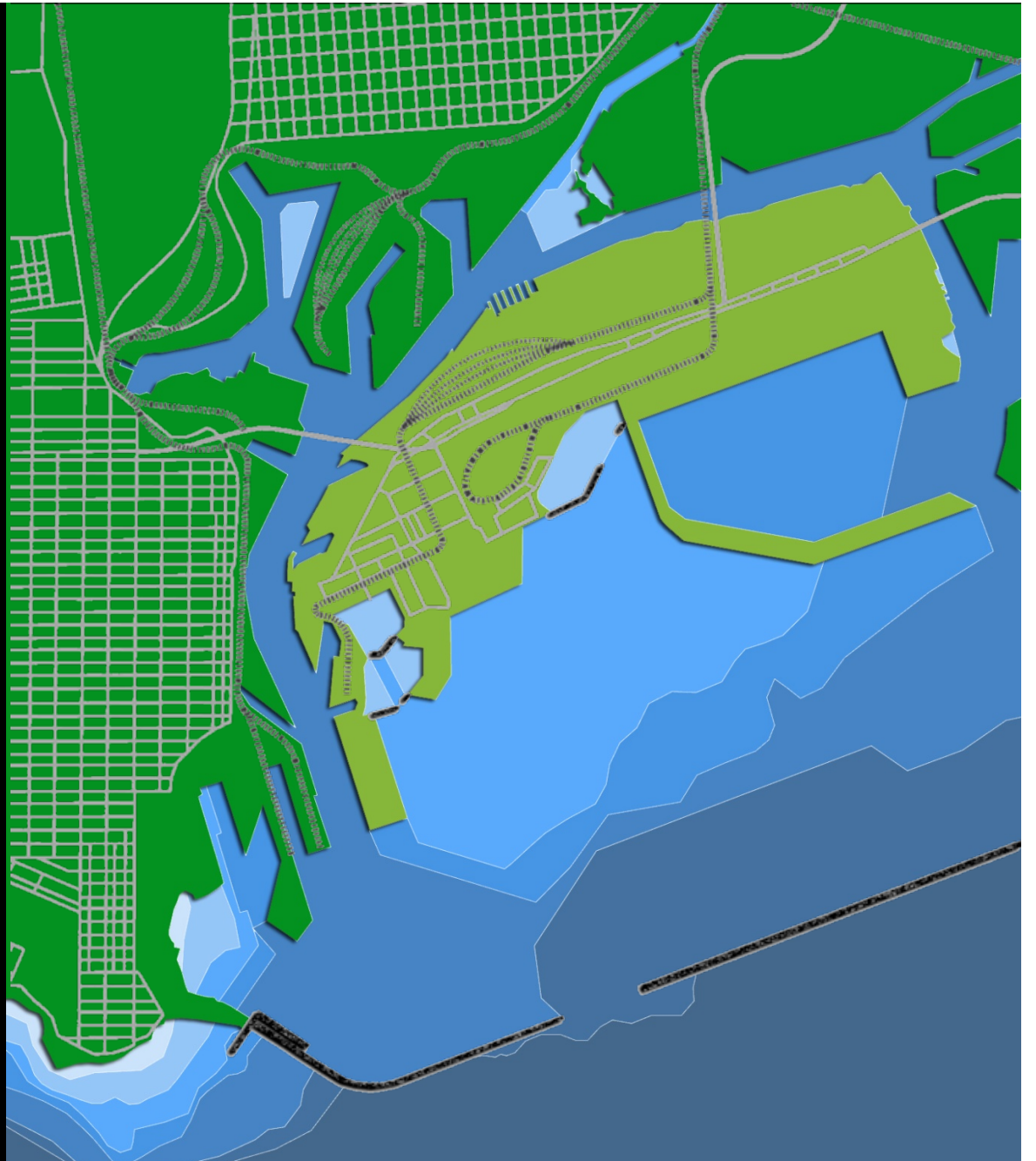
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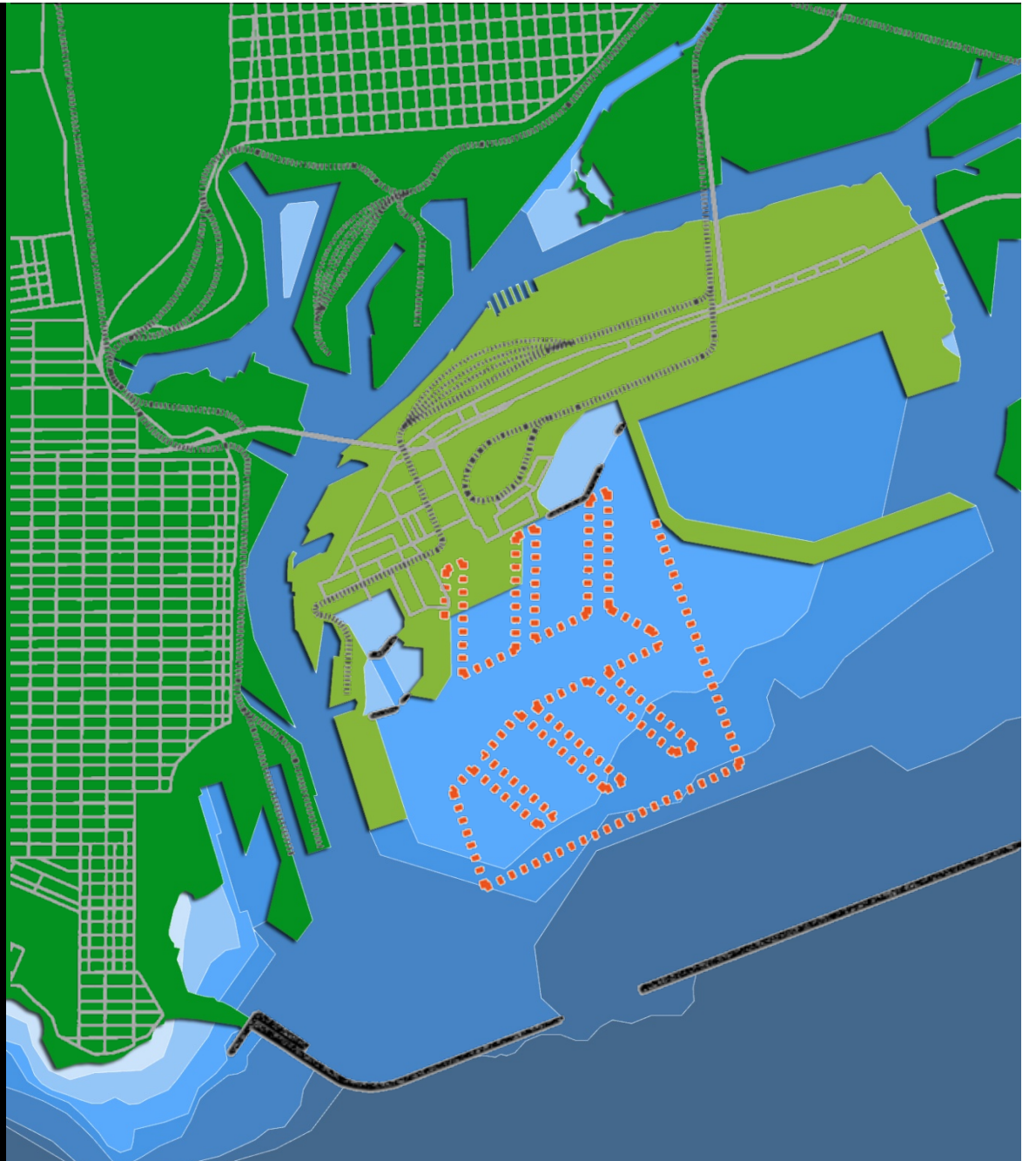
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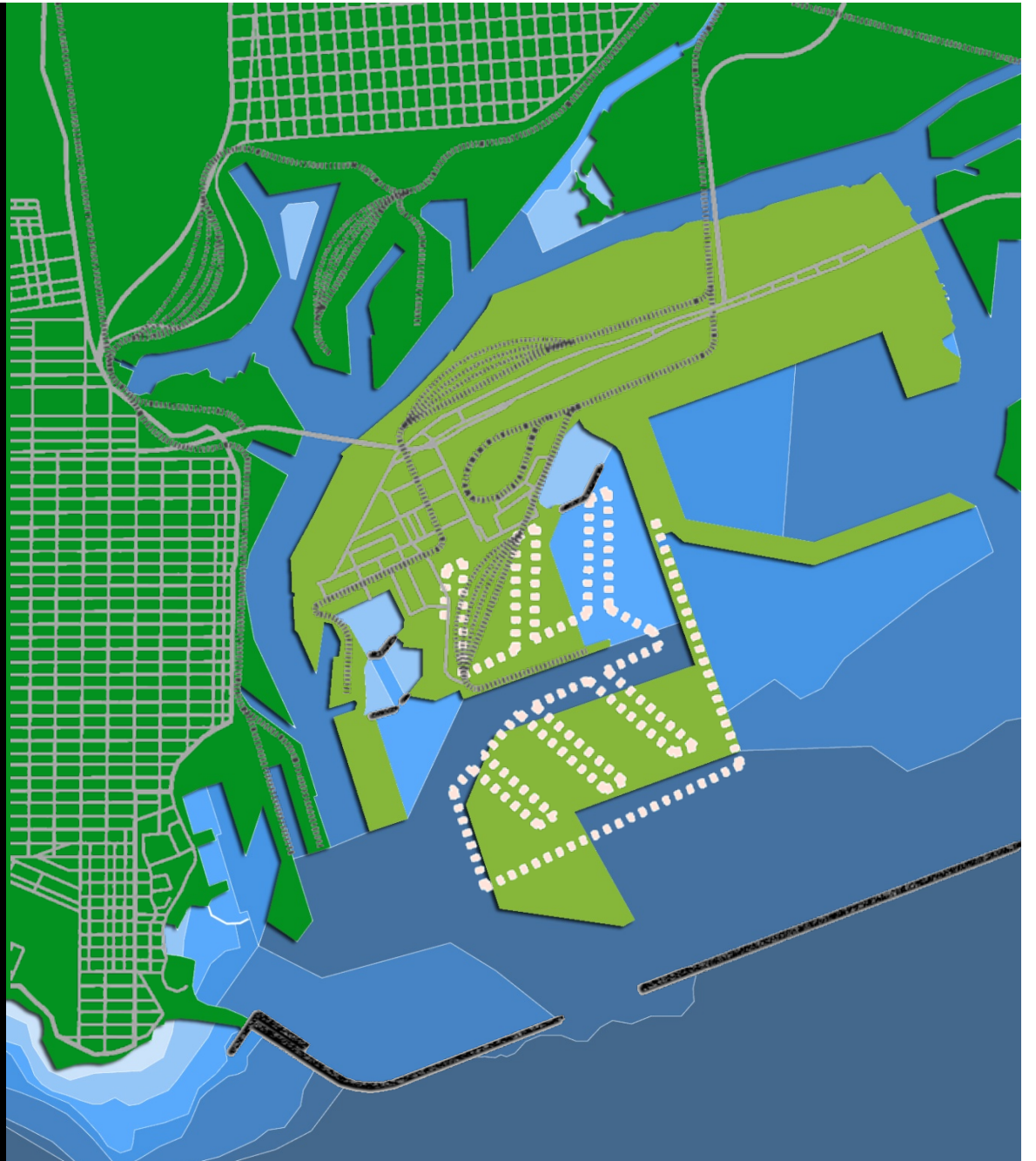
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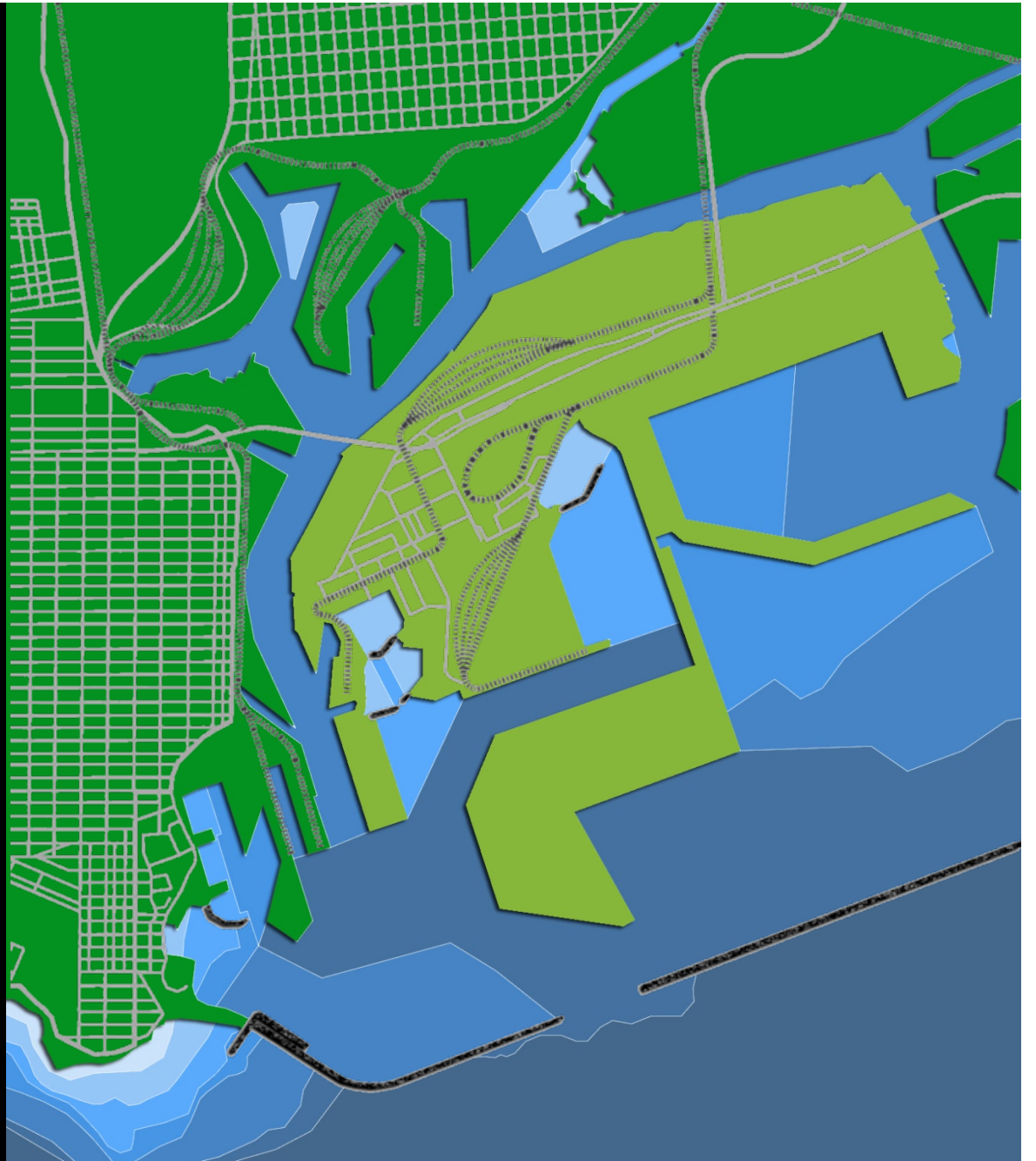
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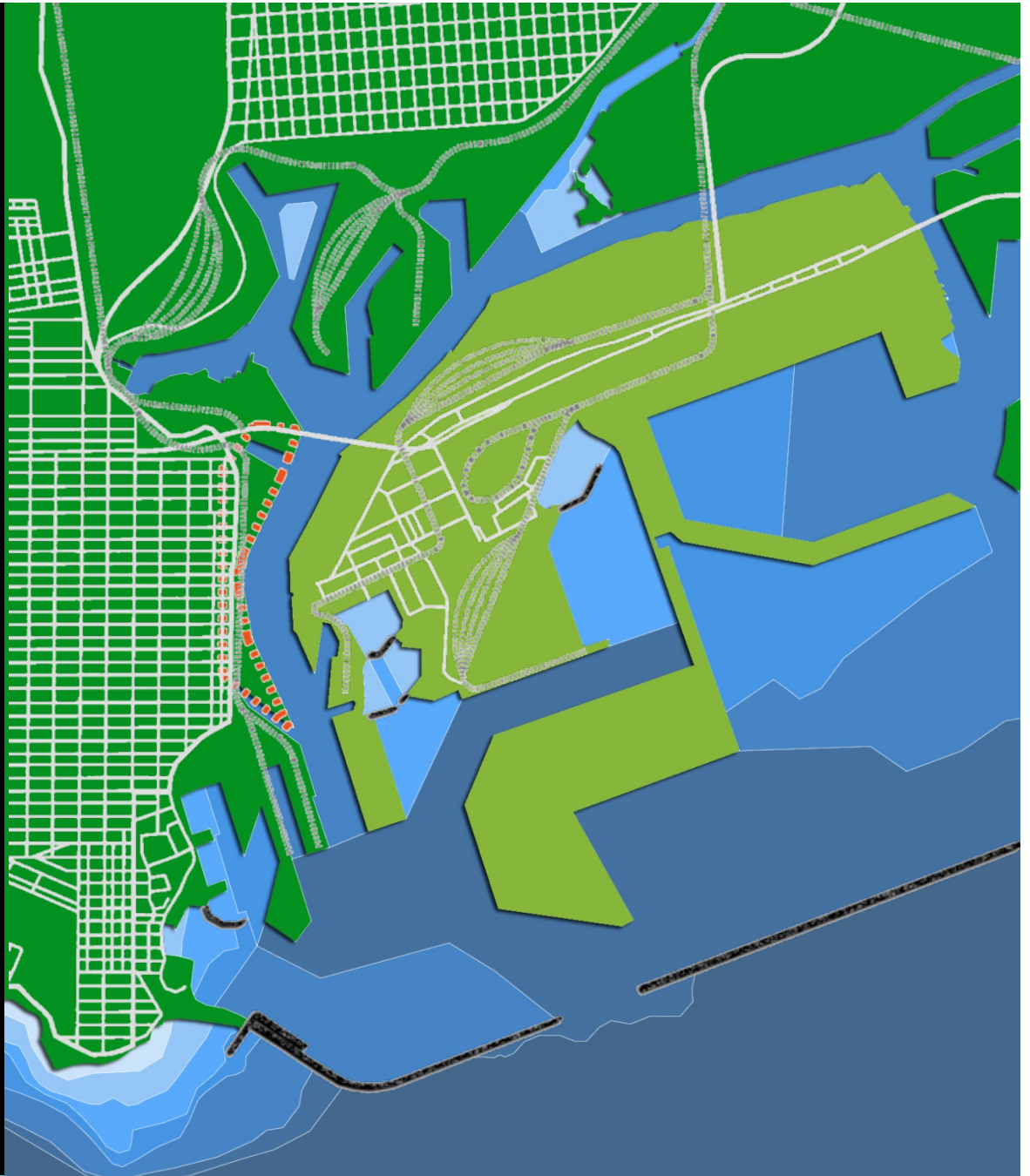


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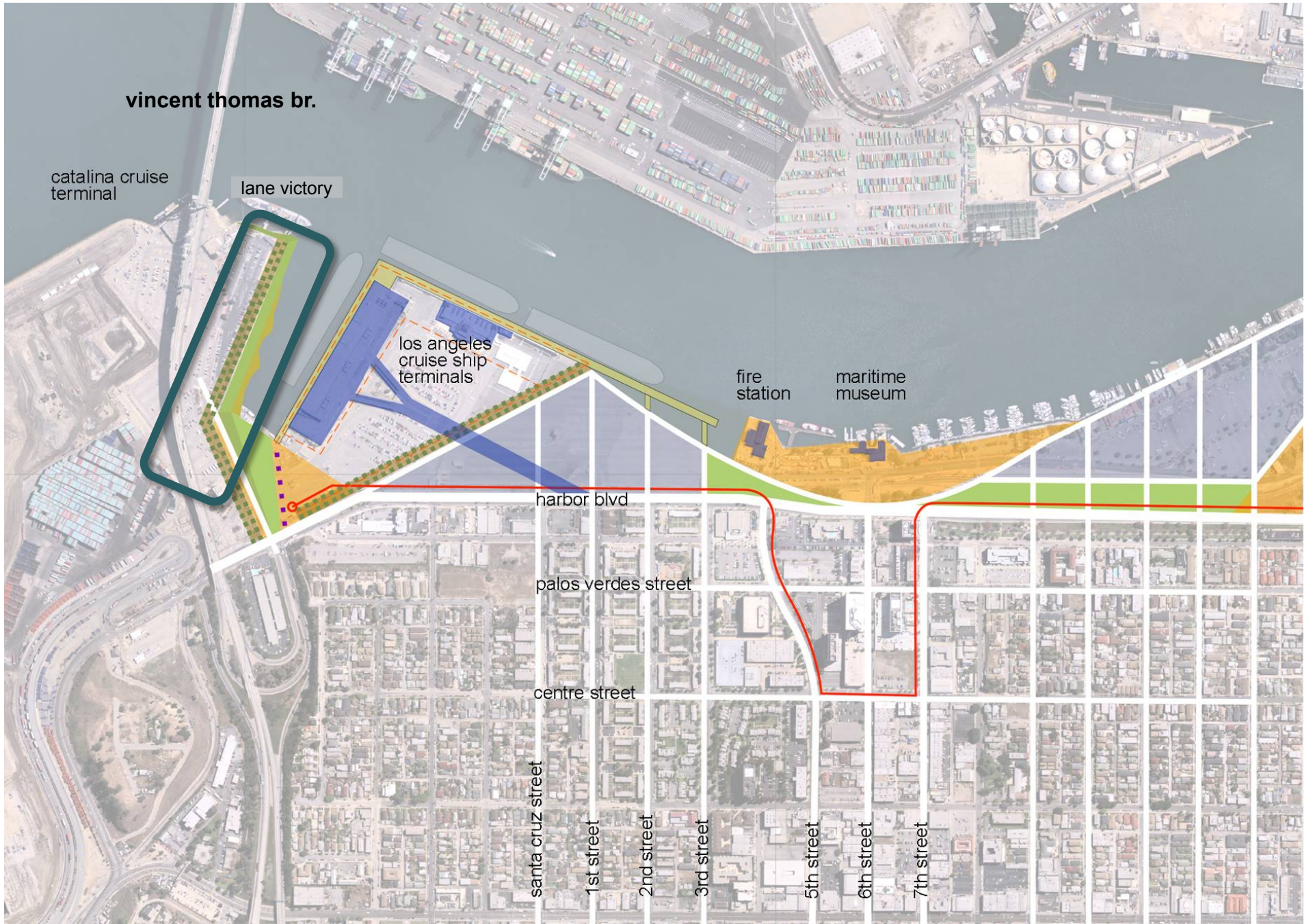
forecast lines breakwater dredge cut piles riprap built lines fill structure skin load & unload

forecast line	forecast line
breakwater	new setback fence
dredge	asphalt removal
cut	stormwater detention areas
piles	trees
riprap	native planting
built lines	boardwalk, trail
fill	garden, plaza
structure	playground
skin	site furnishings
load + unload	gathering + play





LA waterfront | new public realm forecast lines



vincent thomas br.

catalina cruise terminal

lane victory

los angeles cruise ship terminals

fire station

maritime museum

harbor blvd

palos verdes street

centre street

santa cruz street

1st street

2nd street

3rd street

5th street

6th street

7th street

BOARDWALK

WALL + WETLAND

PLAZA

SIDEWALK

ALLEE / MARKET

TRELLIS + PARK

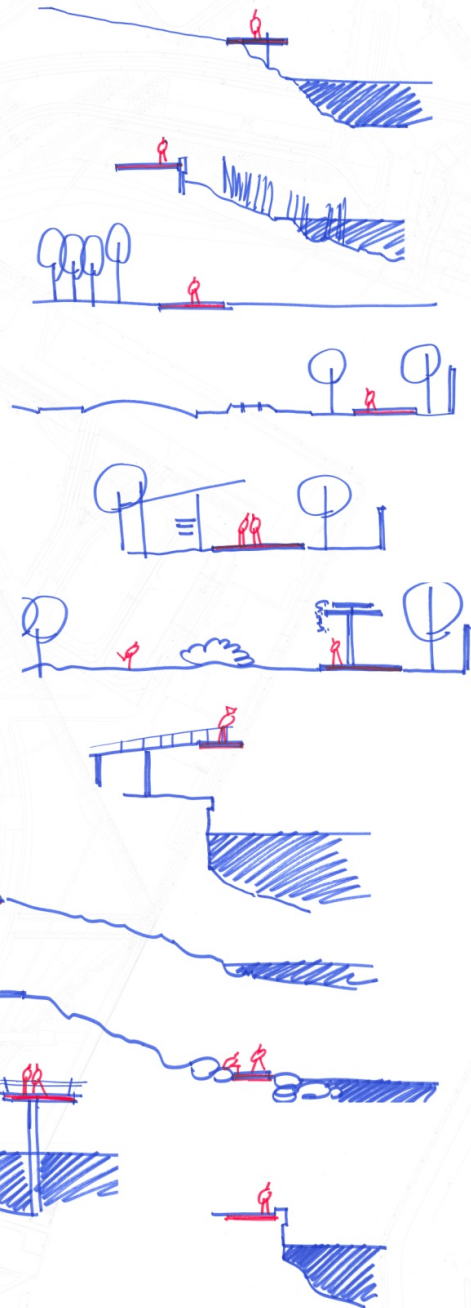
OVERLOOK

PATH

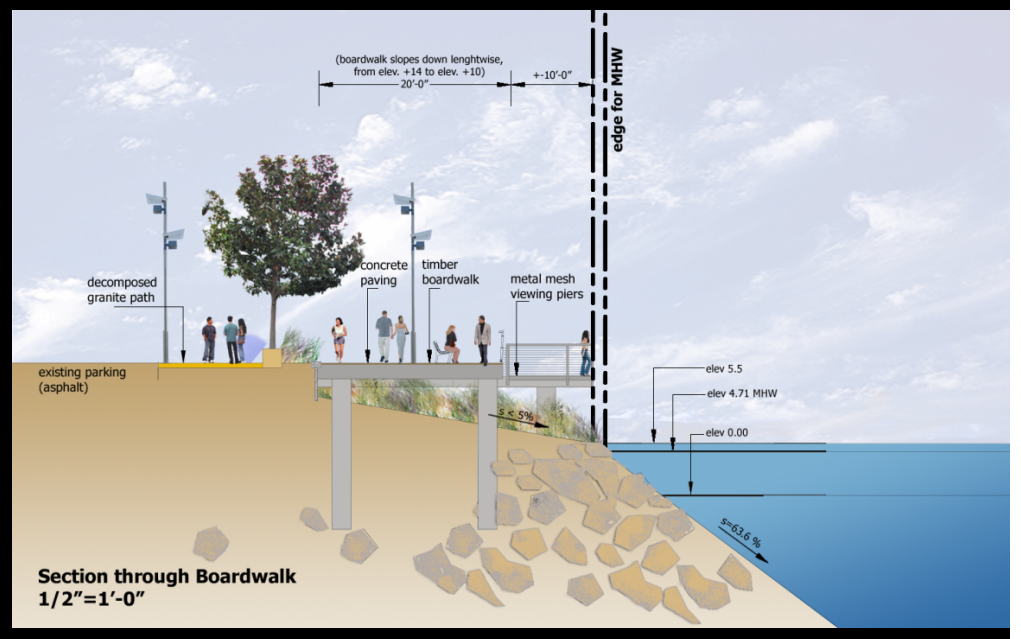
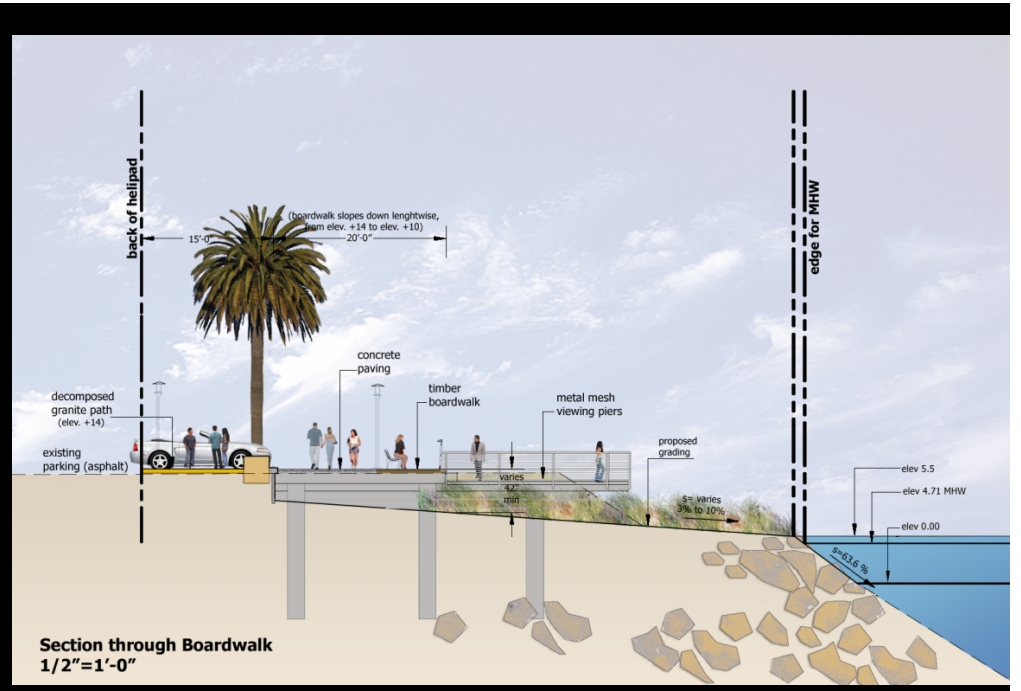
SHORE

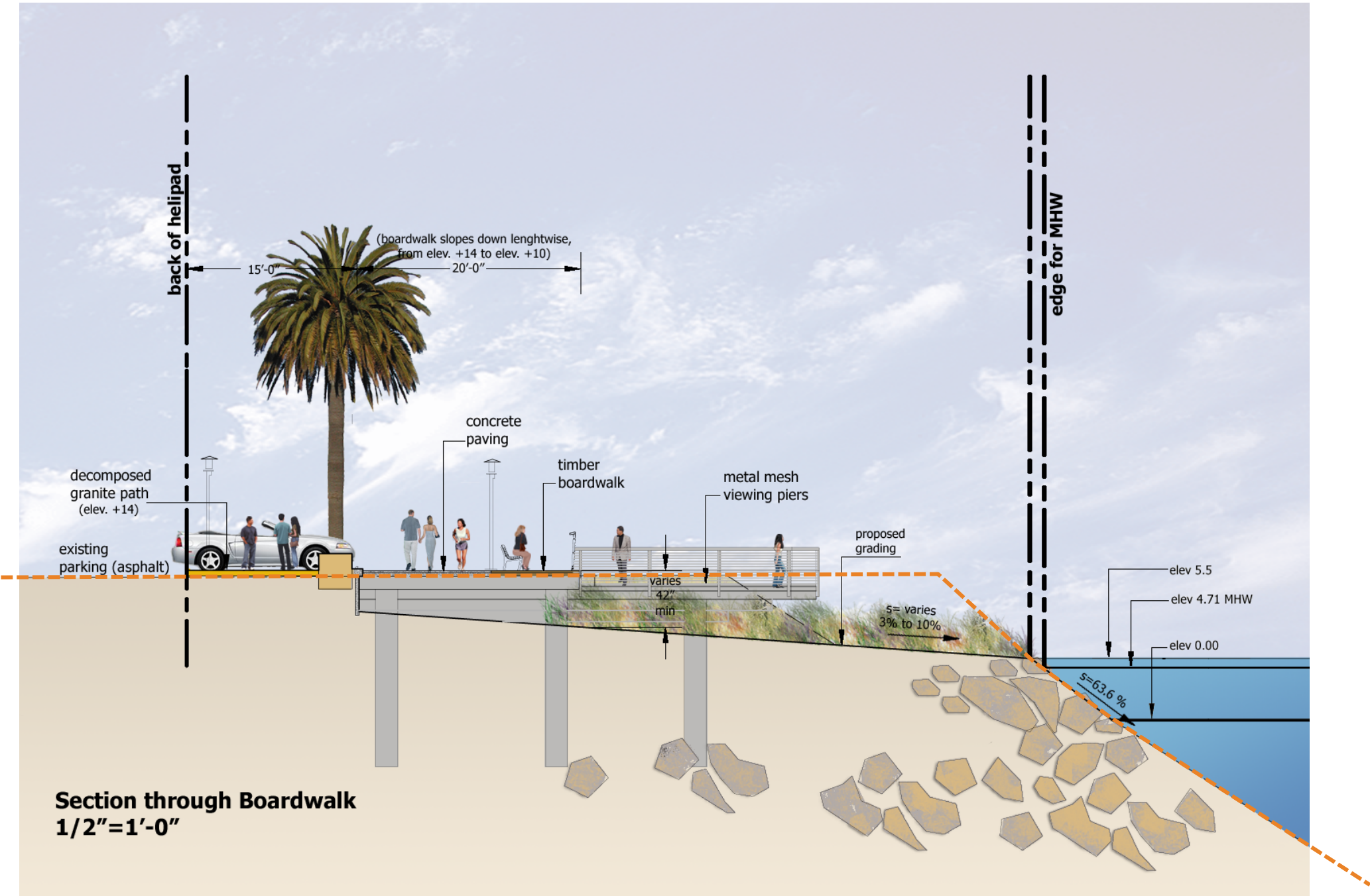
PIER

WALL



EDGE CONDITIONS
august 2003







LA waterfront | new public realm forecast lines : BEFORE



LA waterfront | new public realm forecast lines : AFTER









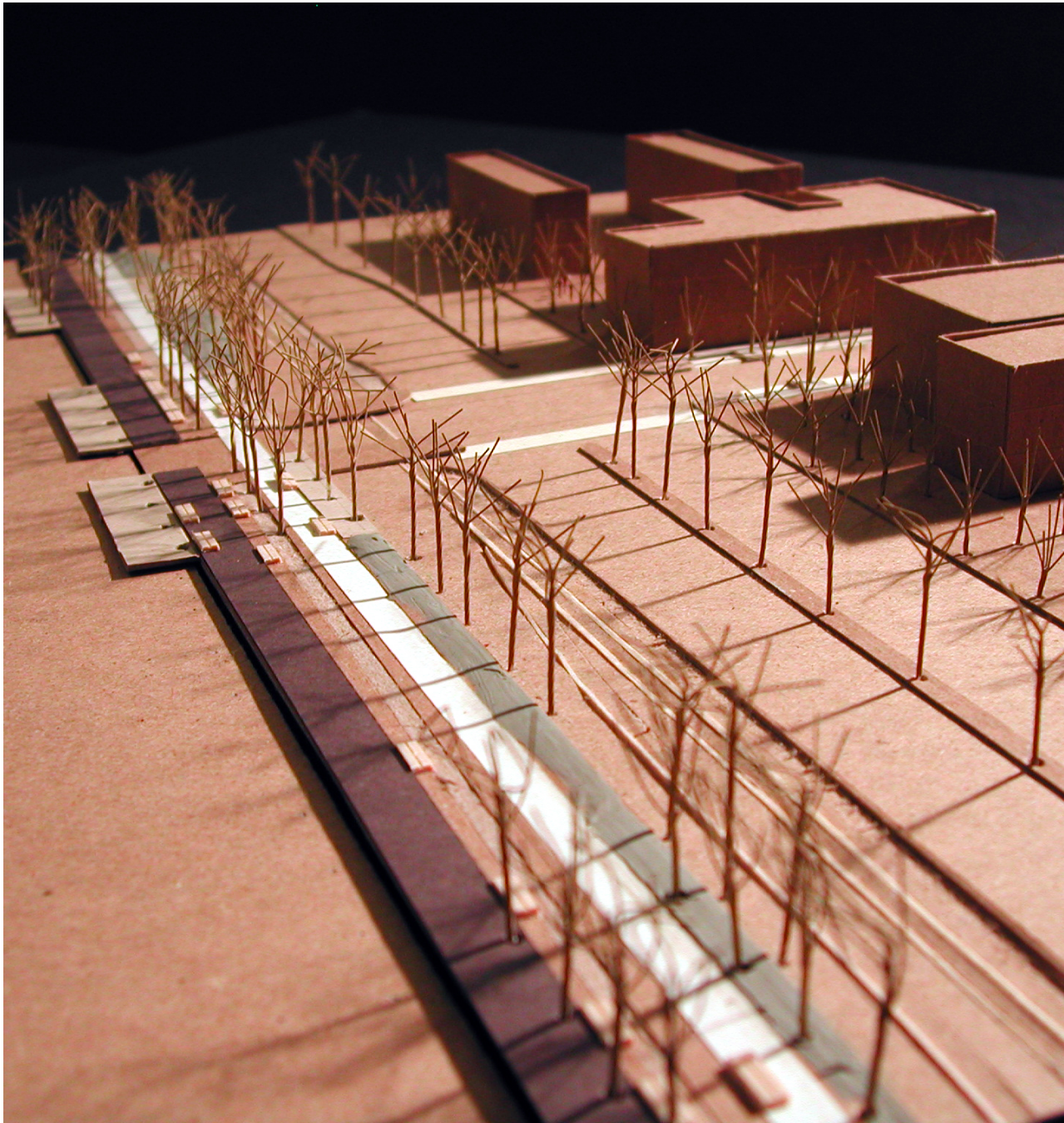








LA waterfront | forecast lines : anticipating the future waterfront













beach

blackpool waterfront

blackpool, uk



blackpool waterfront | coastal protection + public amenity

AECOM



blackpool waterfront | destination



blackpool waterfront | "the golden mile"

AECOM



blackpool waterfront | victorian development on sand dunes



blackpool waterfront | armoured sand dune : 1890



blackpool waterfront | promenade flooding : 2002



30ft tidal range

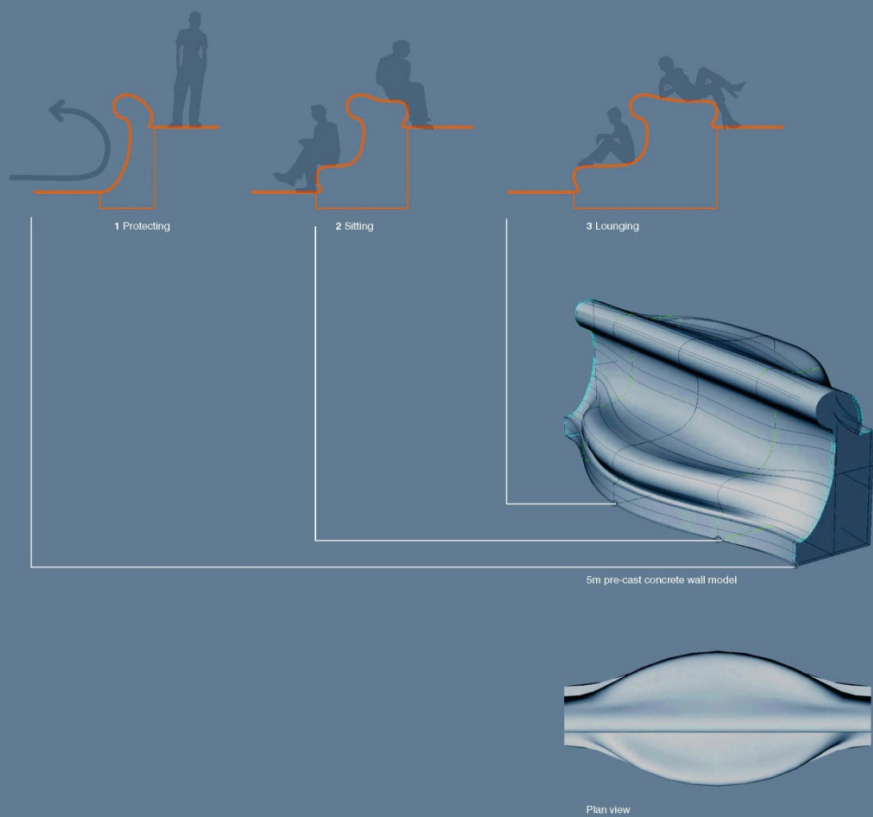


blackpool waterfront | sea bees : 2001

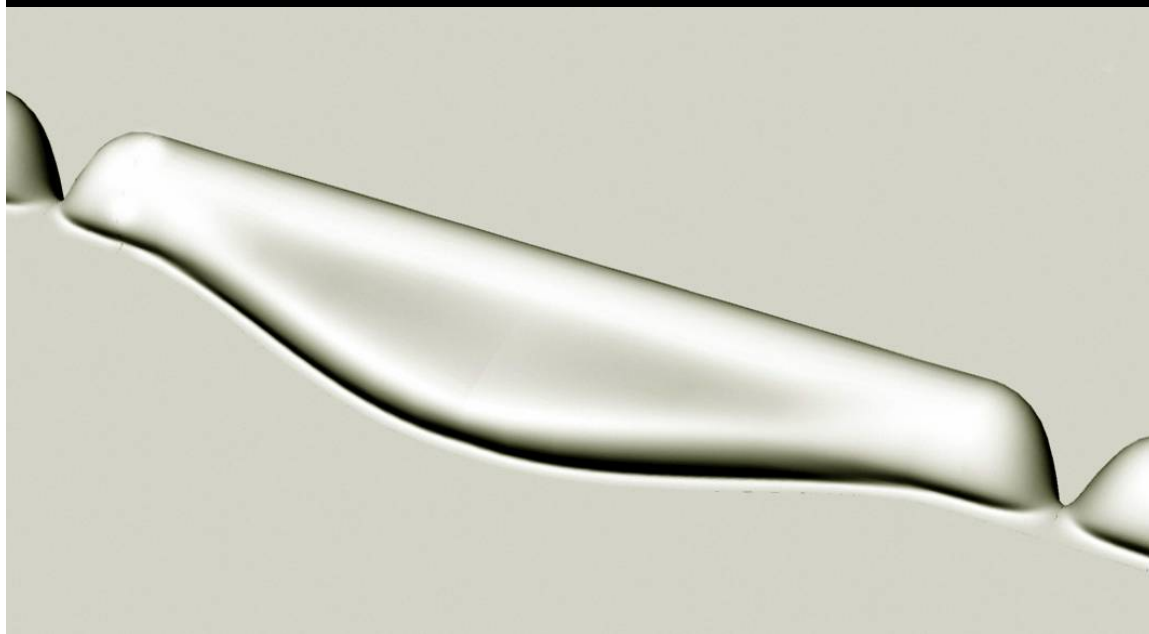
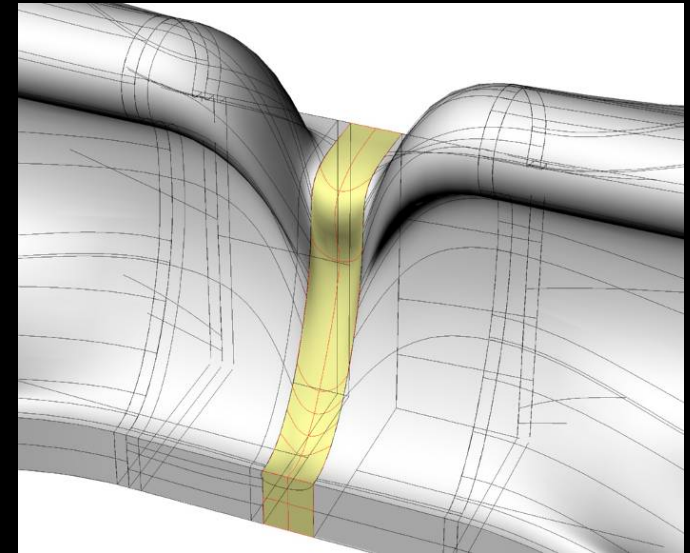
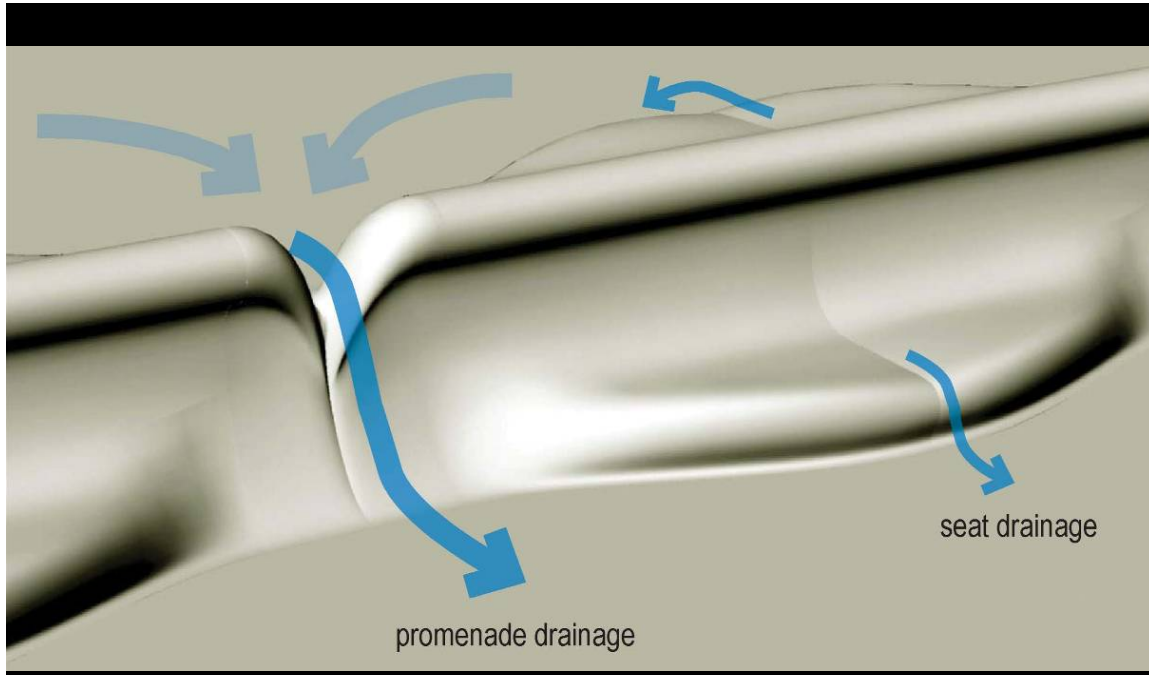




- 1.** SOUTH PIER
- 2.** BLACKPOOL'S BRAIN CORAL
- 3.** BLACKPOOL ROCKS
- 4.** MANCHESTER SQUARE
- 5.** CENTRAL PIER / AQUARIUM
- 6.** TOWER SQUARE
- 7.** NORTH PIER / THE STREET









blackpool waterfront | seawall + promenade section



blackpool waterfront | under construction



blackpool waterfront | coastal protection + public amenity



blackpool waterfront | a synergy between human needs and natural processes

AECOM

beach

ocean beach

san francisco, ca





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