Preservation in the 21st Century

KRISTOPHER B. KING

Executive Director

PRESERVATION ESTD SOCIETY 1920 of CHARLESTON





April 21, 1920



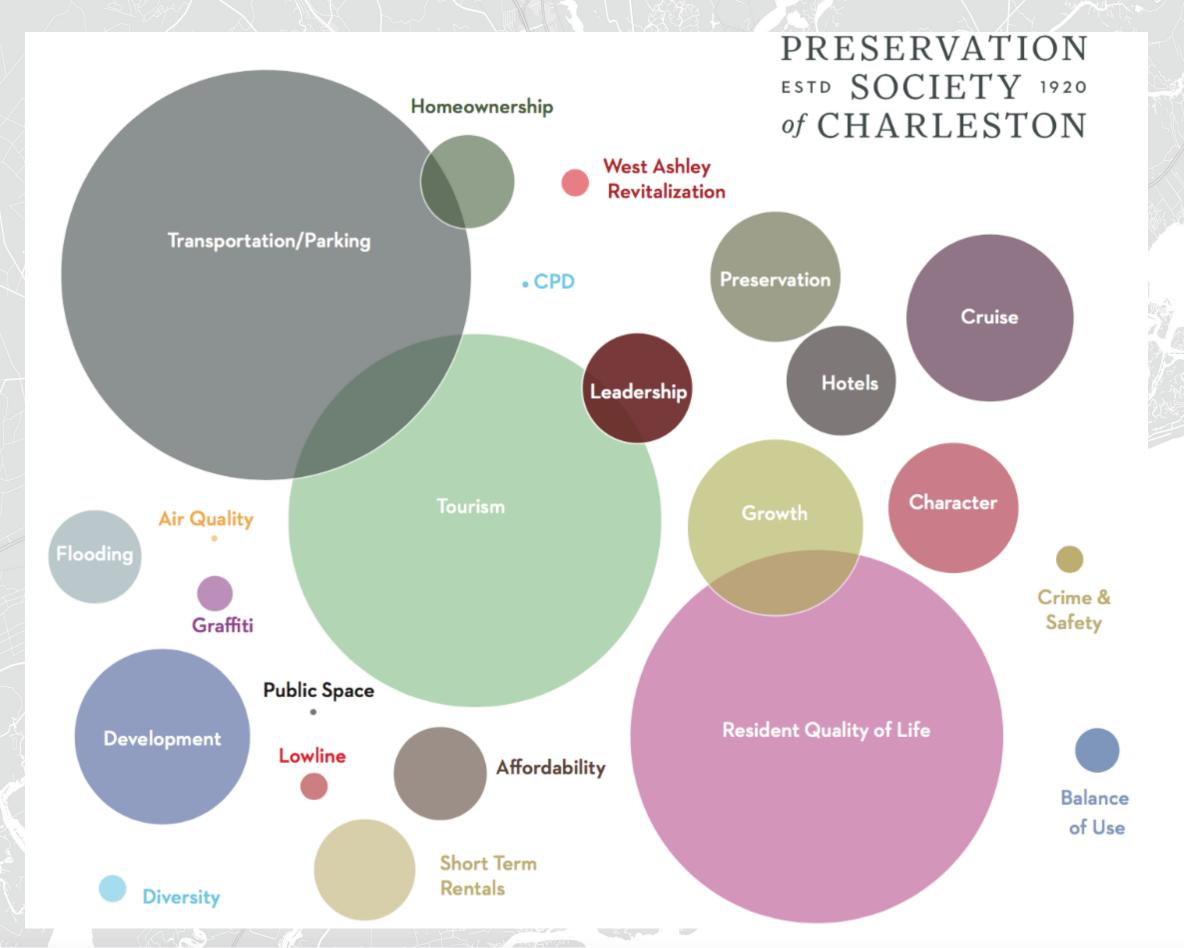




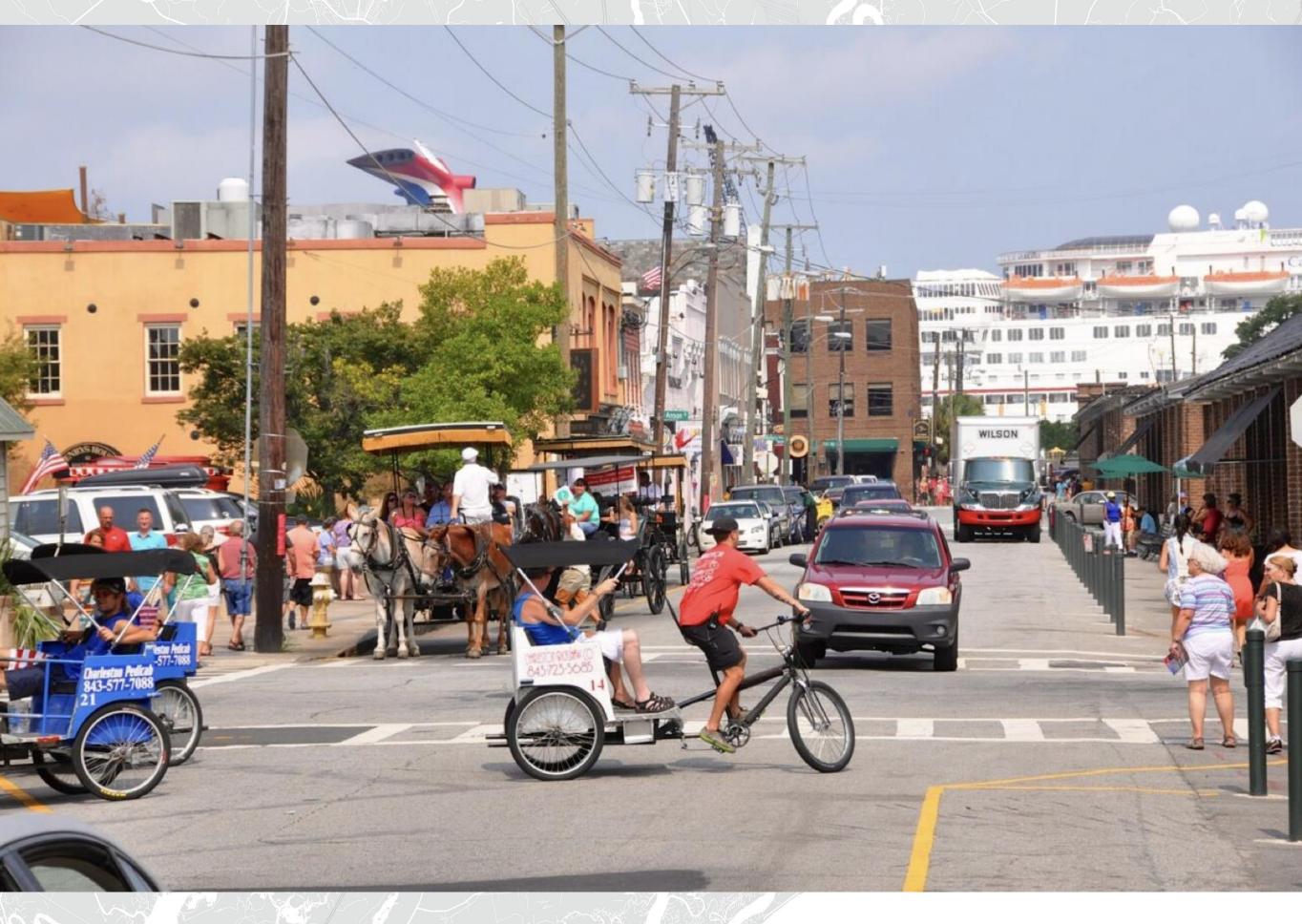


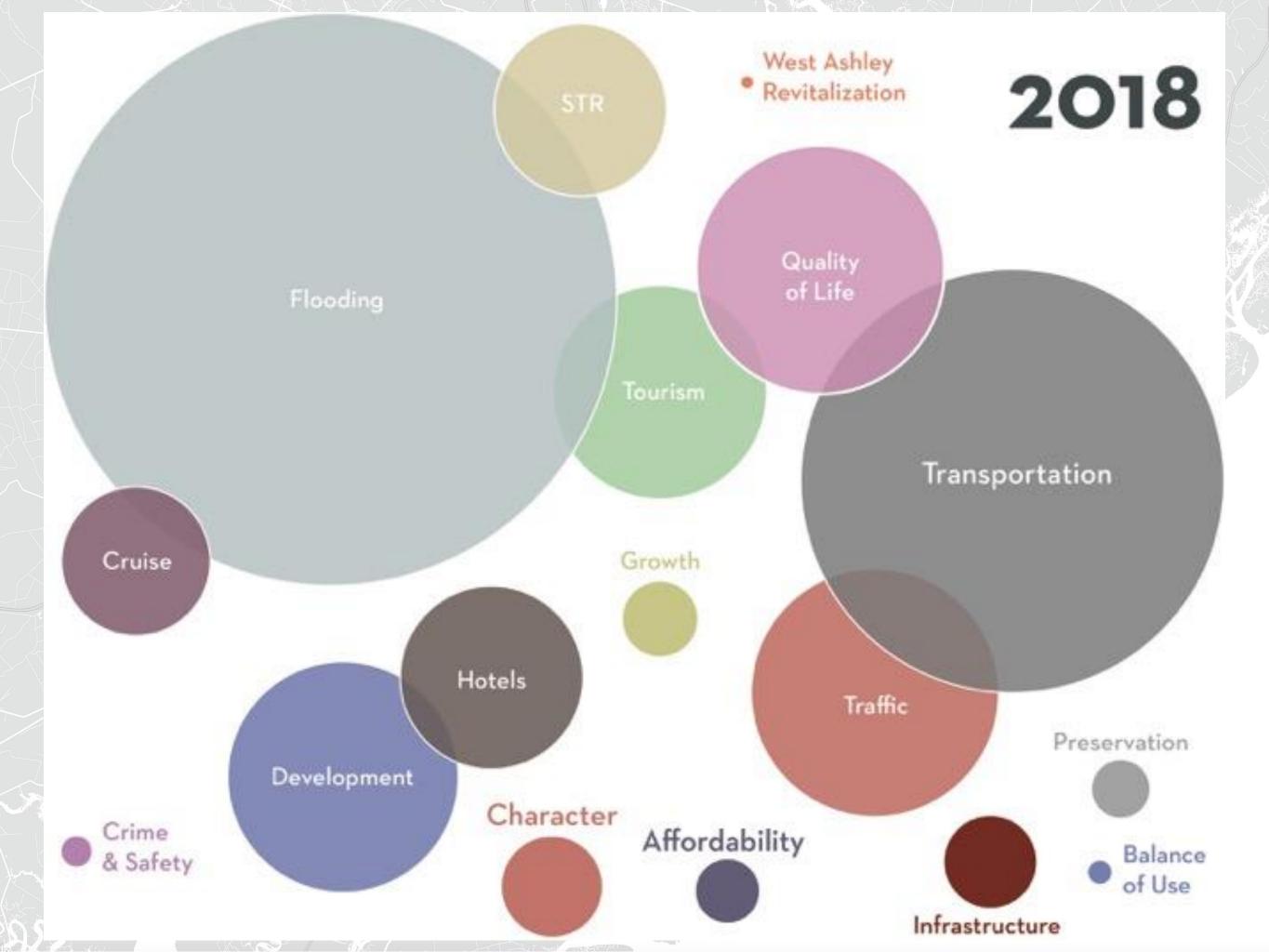


2015 Survey – Issues impacting Charleston?

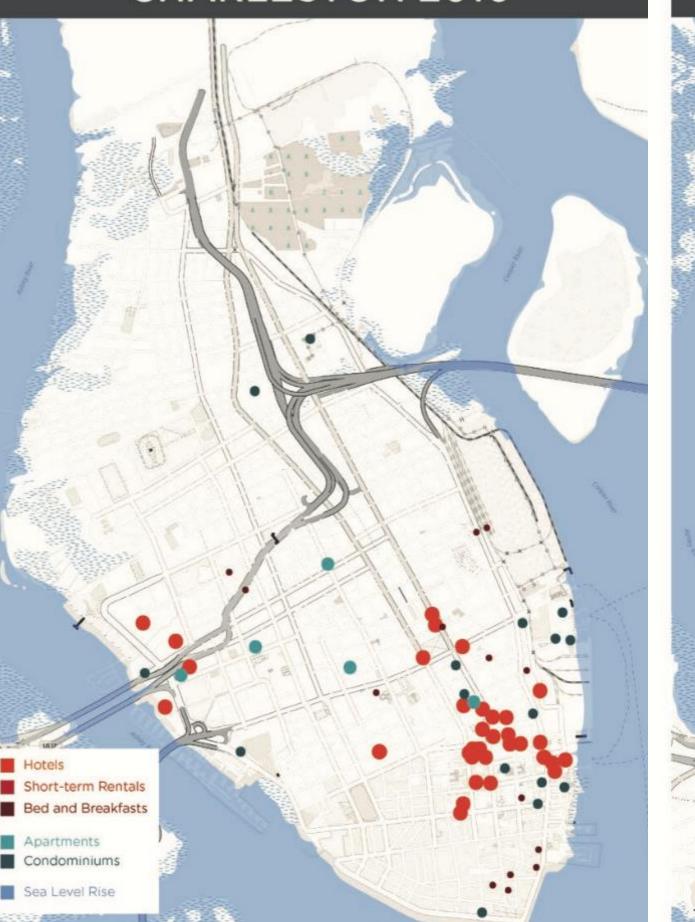




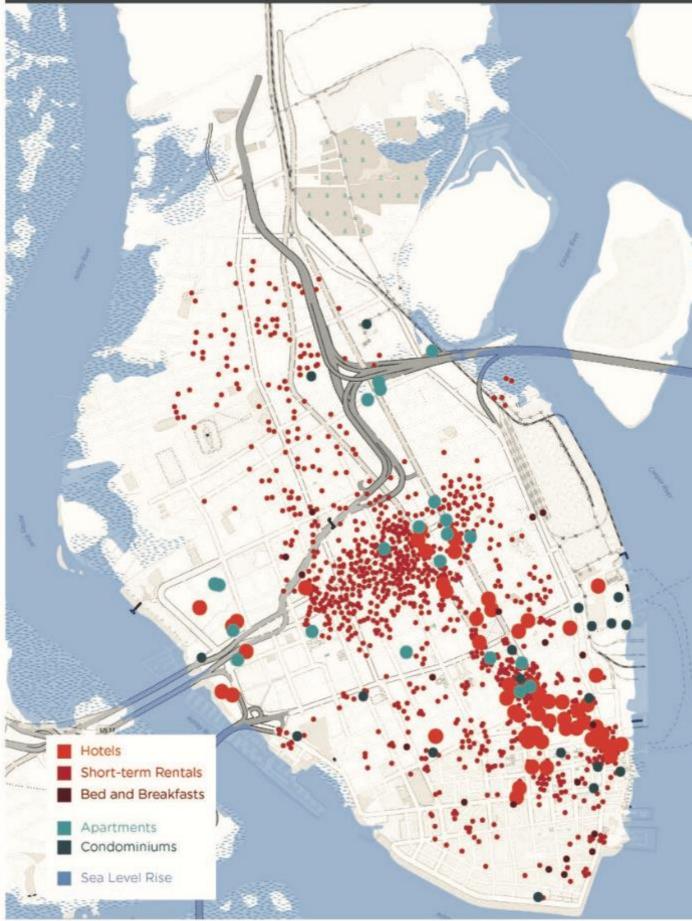




CHARLESTON 2010



CHARLESTON TODAY











Charleston Downtown Alliance



Editorial: New data clarify Charleston's affordability crisis; something has to give

BY THE EDITORIAL STAFF JAN 16, 2021 UPDATED APR 2, 2021

Housing prices still unaffordable for most in Charleston region, burdening workforce

BY ABIGAIL DARLINGTON ADARLINGTON@POSTANDCOURIER.COM JAN 26, 2019 UPDATED SEP 28, 2020

Sea rise imperils affordable housing in Charleston and other coastal areas, study finds

BY CHLOE JOHNSON CJOHNSON@POSTANDCOURIER.COM DEC 4, 2020 UPDATED DEC 17, 2020













Tweet



Matthew Fortner @MatthewFortner

No snow sighted yet downtown. But these high tides! This is at Broad Street near Lockwood. #chswx



8:34 AM · 03 Jan 18

5 Retweets	5 Likes		
\cap	Ϋ́	\sim	\square

U.S.ARMY

STUDY AUTHORITY AND PURPOSE

- Rivers and Harbors Act of 1962 (P.L. 87-874), Section 110
- Senate Resolution, Committee on Environment and Public Works, April 22,1988
- Bipartisan Budget Act of 2018 (P.L. 115-123), Division B, Subdivision 1, Title IV
- Federal Cost Share Agreement with City of Charleston signed in October 2018

Study purpose/scope:

 To determine the feasibility of and federal interest in constructing a flood risk management project for the Charleston, SC Peninsula.









Alternative 2

Army Corps' Seawall (3x3)





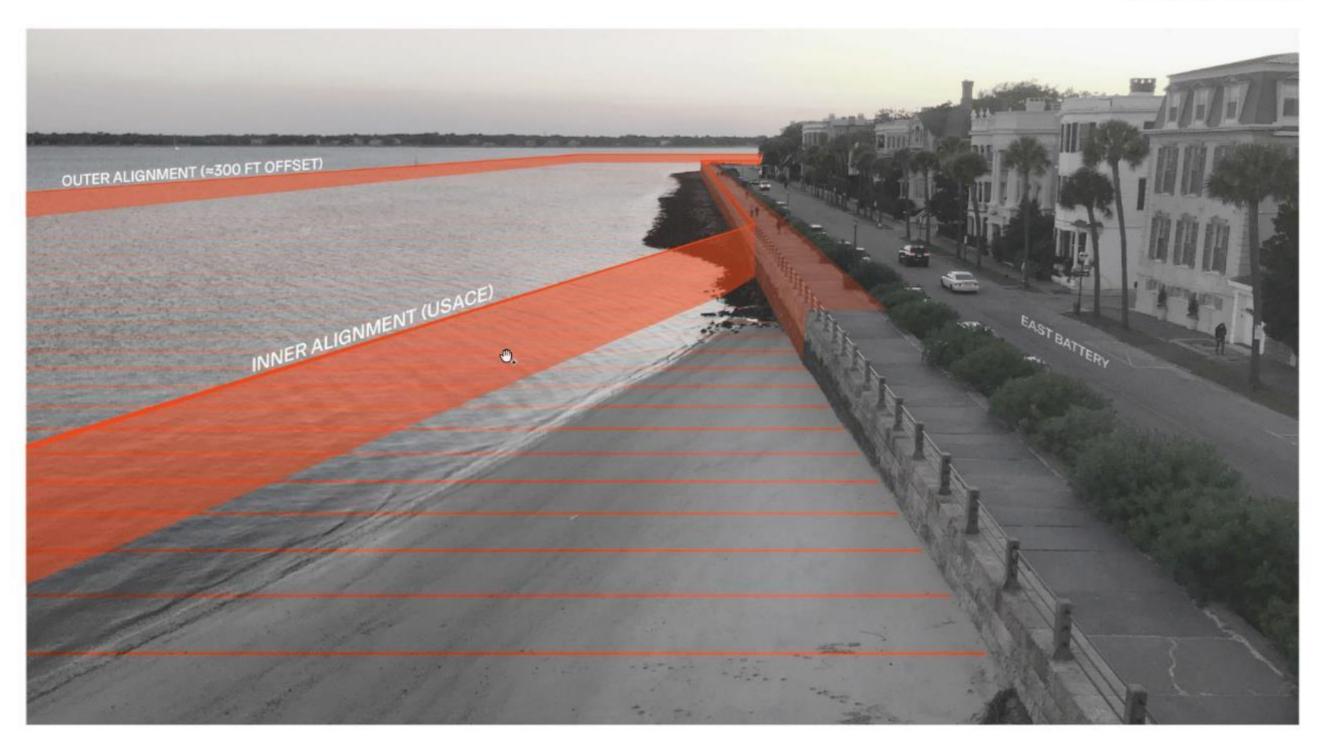
A CHING

Army Corps' Seawall (3x3)

High Battery

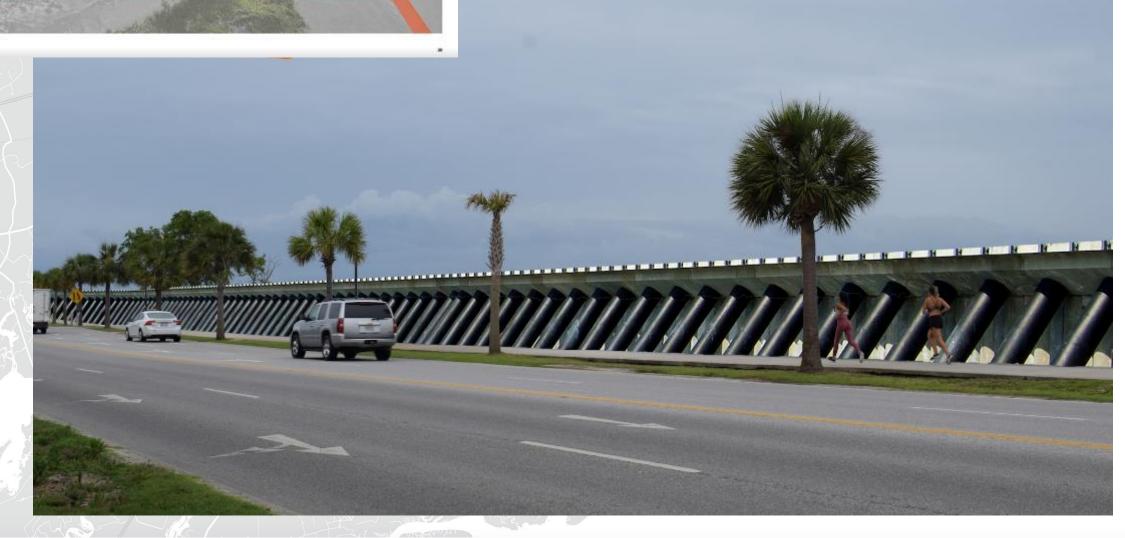
harleston Perimeter Protection Analysis

12/4/2020 DRAFT



Lockwood Corridor





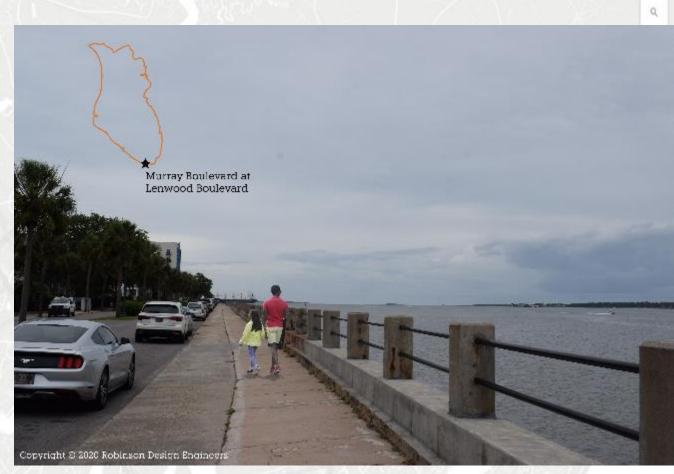
WagenerTerrace Looking North from Longborough Walking Path

Charleston Perimeter Protection Analysis

12/4/2020 DRAFT







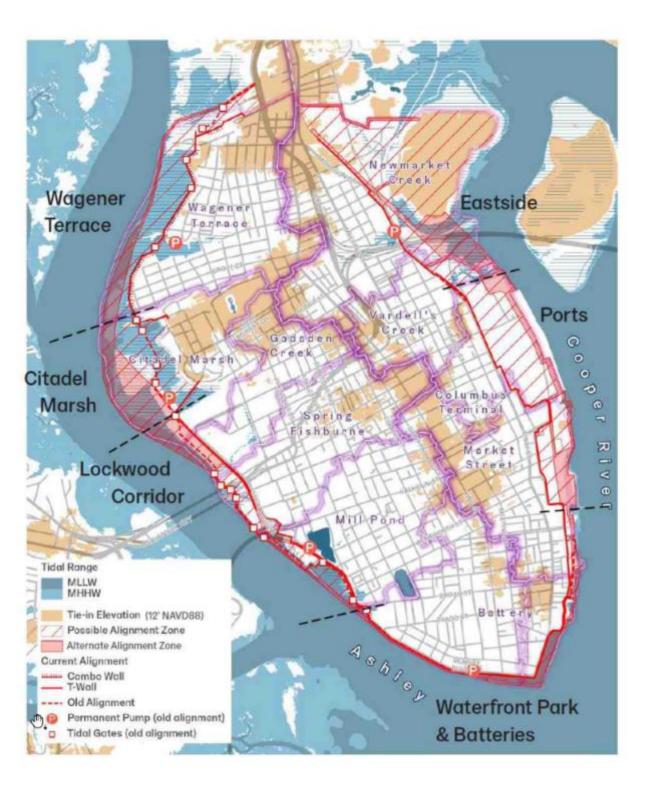




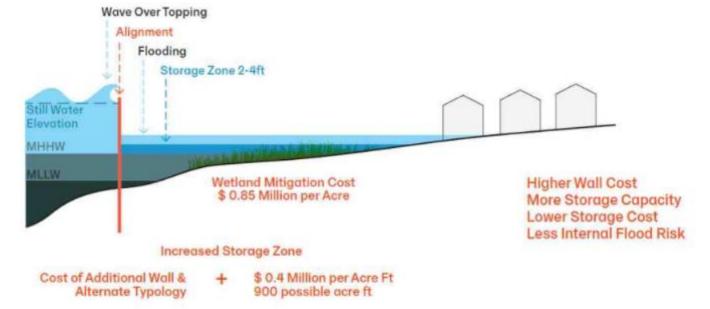
Alternatives Overview: Inner vs. Outer Alignment

Charleston Perimeter Protection Analysis

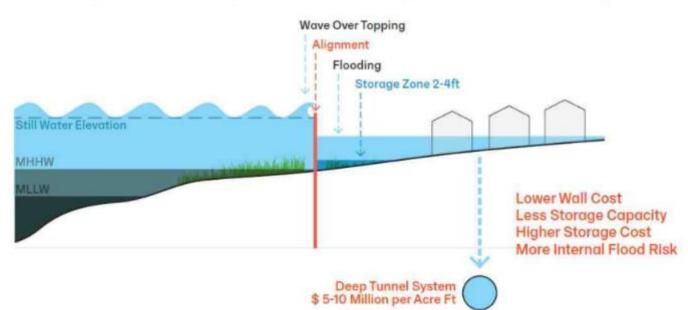
12/4/2020 DRAFT

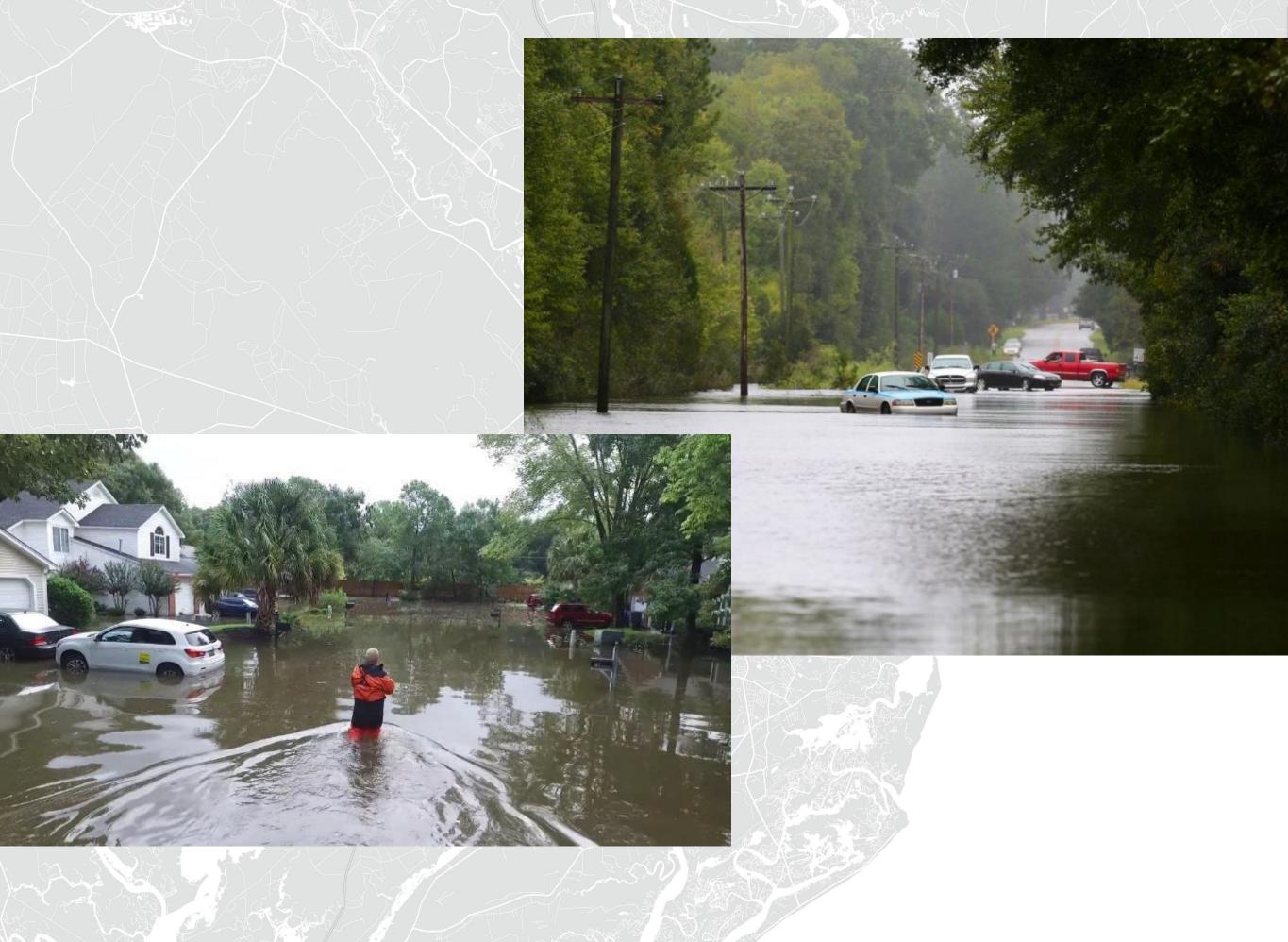


Outer Alignment Concept



Inner (USACE Optimized) Alignment Concept

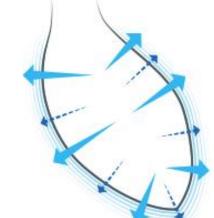


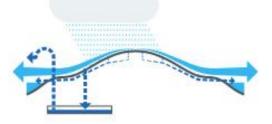












Currently runoff drains via gravity into the Cooper or Ashley River overland or in pipes with some water going into the deep tunnel system, where it is pumped out after a storm event.



With sea level rise and more severe tidal flood events, drain lines need check valves to prevent back flow.



After the perimeter protection system goes is built runoff becomes trapped behind the wall during rain events. Water will need to be managed by a combination of pumping, the deep tunnel system and an interconnected ring of detention basins and water storage infrastructure.

USACE Optimized Alignment Overview. Credit: Waggonner & Ball





Public park next to a levee in the Netherlands. Credit: Waggonner & Ball



High Ground

High ground is defined as land outside of the 100 year floodplain and above the max category 3 storm surge.

Adapt Zone

The adapt zone consists of land outside of the 100 year floodplain that is still within the maximum storm surge of a category 3 hurricane.

Alignment Zone

The USACE proposed perimeter protection would provide storm surge mitigation for areas below 12 ft NAVD and inside the alignment.

Compound Flood Risk

This zone encompasses areas within the floodplain above the tidal flood risk zone.

Tidal Flood Risk Zone

This zone corresponds to the elevation where 95% of the land is in the 100 year floodplain.





Elevation Risk Zones without USACE structure (existing). Credit: Waggonner & Ball

Elevation Risk Zones with USACE proposed protection. Credit: Waggonner & Ball





WAGGONNER &BALL

THE WATER INSTITUTE OF THE GULF"

moffatt & nichol

ARCADIS











Image Credit: ONE imaginethewall.com



CHARLESTON COMPREHENSIVE PLAN 2020

What Is the Future Land Map?

A major component of the City Plan, the future land use map brings together various aspects of the plan into a visual guide for land use and development in Charleston. The map is an articulation of the community's vision of how the City develops, where it is appropriate to expand, where we should scale back and, while not a zoning map, it helps the community make land use and growth management decisions now and into the future. Intended as a general guide rather than a regulatory tool, the map is not parcel-specific and boundaries between land use categories are not exact.

Rural

Areas outside of the designated Urban Growth Reandary, where densities would not exceed one unit per ozer, and in general would be much lower. Development in these areas include low dessity readdential, agricultural areas, foresty areas, and recruitional areas. Blocks do not follow a pattern and here very widely in size.

Suburban Edge

Conversily solutions in character, but here r densities thus typical solutions residential areas. Solutions Edge occurs mainly inside and next to the Urbus Growth Bundays and draw algorith to neightborhook in low-bing areas. Uses are almost exclusively readminial and densities range from one to four dwalling units per area (3, duk to 4 duh). Rampless include Bundhurt, Shadewrane, and Stilles Point neighborhoods.

Suburban

Low interactly, outpurfum onlyle arous, adjacent to higher interactly areas that include a mix of some Lamitod mixed use sectors at law erose reads. Densities range from four to eight develling units per area (4 data to 8 data). Examples include Wagener Terrace, Rivefand Terrace, Avendele, and St. Johns Wessle anglighterbook.

Neighborhood

These areas includes a mix of uses, but primarily resolutional areas with separate black partners and a worke reson of buildings types and contracts. Other next to more such areas, some ran anchos a varier part of the second second

Neighborhood Edge

The neighborhood and future singiburbooks there was wedden but are mainly mighborhoods and future singiburbooks. User was wedden but are mainly those things that residents area deach as offices, stores and restaurants but have set spin-200 bords after reads and transit reads forming the edges of neighborhoods rether than the contern. While traditionsky threaded along major reads, new time, these areas mult traditionally threaded along funge spinters and maintee mere multimized to a spin-fully should not sense transmit reads. Examples includes many periods of Fully Read and some particular stranses. Examples includes many periods of Fully Read and some particular stranses for the spin transmitting Blod and Hene Farry BL.

City Center

The densest, must minut-use perturns of the City. The tailout buildings would score here along with the must buildings of mighting and Books may be larger, strends have strendy attent two planting, and buildings are set class to wale solvershifts. These areas socies on the highest grannel developes in wale solvershifts. These areas socies on the highest grannel developes in the City allowing for heat experiminise for growth. Donaition insigns from ten develling utilin per news and up. Examples: The Constrain factions District of Charitation (pertiness of King, Calibour, Mosting and East Boy Breath), the Magnelia area, areas arccand Chadel Mall, areas sing from Ritenberg Hird and Chemente Perry Ho.

Campus

The City's compose areas primarily encompane significant education, modula or office uses that do not conform to traditional urban block patterns. No methodized uses some here there than these means of the school or large some Voing compose. Stamples include: College of Charleston, Charleston area high athcole and the fit. Francis herpital area.

Job Center

The job context areas primarily motion light manufacturing, warehousing, officativereducating, and some retransmitted and efficie uses that control configure to additional effects likely primarily. These areas areas an inclusion for small and entropromutial businesses, Basilantial are very limited in order to help concerv there areas for business explosion and on guarantime foranging business areas and Concents Syrey Rood, areas the Deposit Examples business areas and generating syrey Rood, areas and the Deposit

Industrial

The City's industrial sense permatch's include more internative manufacturing, averdancing and distribution news involving havey traits traffic and potential minimum ant found with lighter manufacturing operations. Readerstual uses are not typically allowed in an effort to preserve these areas for yob generation and vertice coefficies from industrial traffic, areasimes, and mass. Examples include the and side of the Chaeleston Next areas and the Columbus Server Versional.

Natural/Wetland

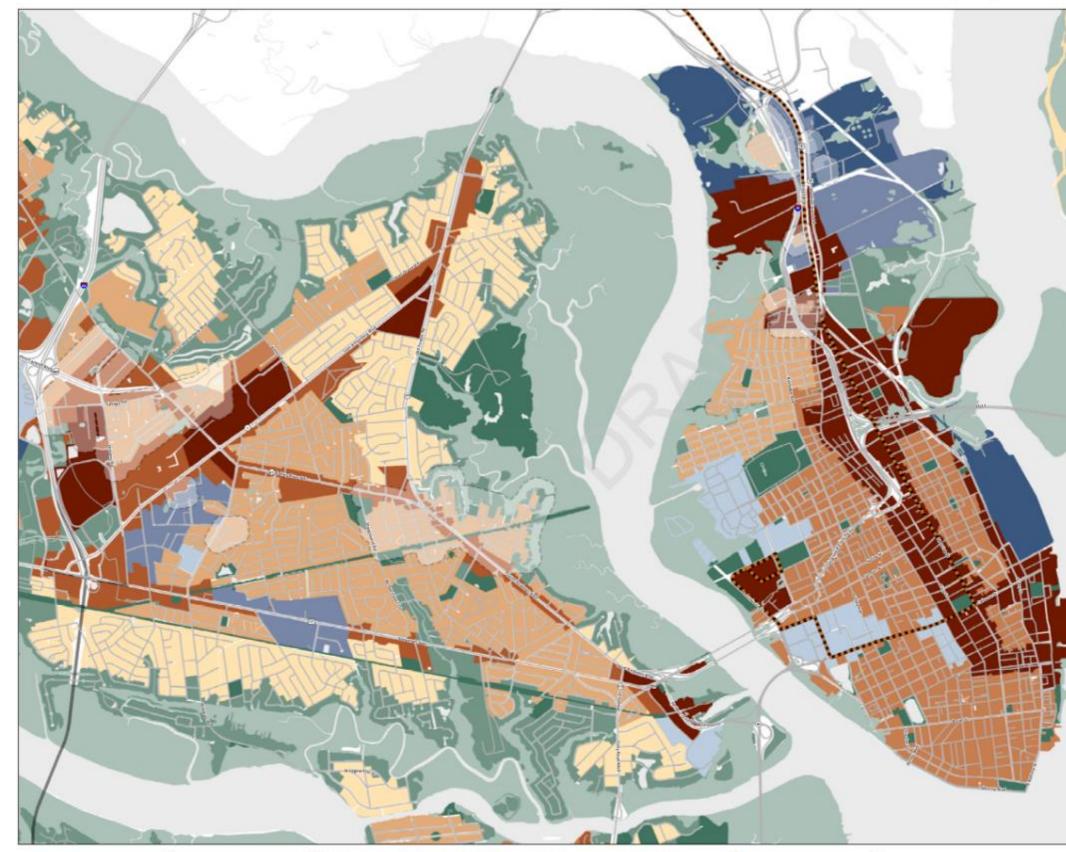
Marsh, wetlands, small water bolics or other lands that cannot be developed due to their geography or topography.

Low Impact & Conserved

This dissipation encompanies two types of land area. 1) Low silvestion inclupotential ideal fixed risk areas and future marks migration areas. Some Class areas may see finited development, but structures are Holdy to be levated as as not to compare natural intertails systems. Uses are known of associating downtion limited to four them one are ign per seen. 3: Lards reserved via public overambigs (nit measurement) open to the generation opulation) or prevents overambigs with presservation or conservations measured state significantly controls development.

Park

ublish as privately owned insite open to the general population for screational purposes, active or panetics, or designated for fature such uses.

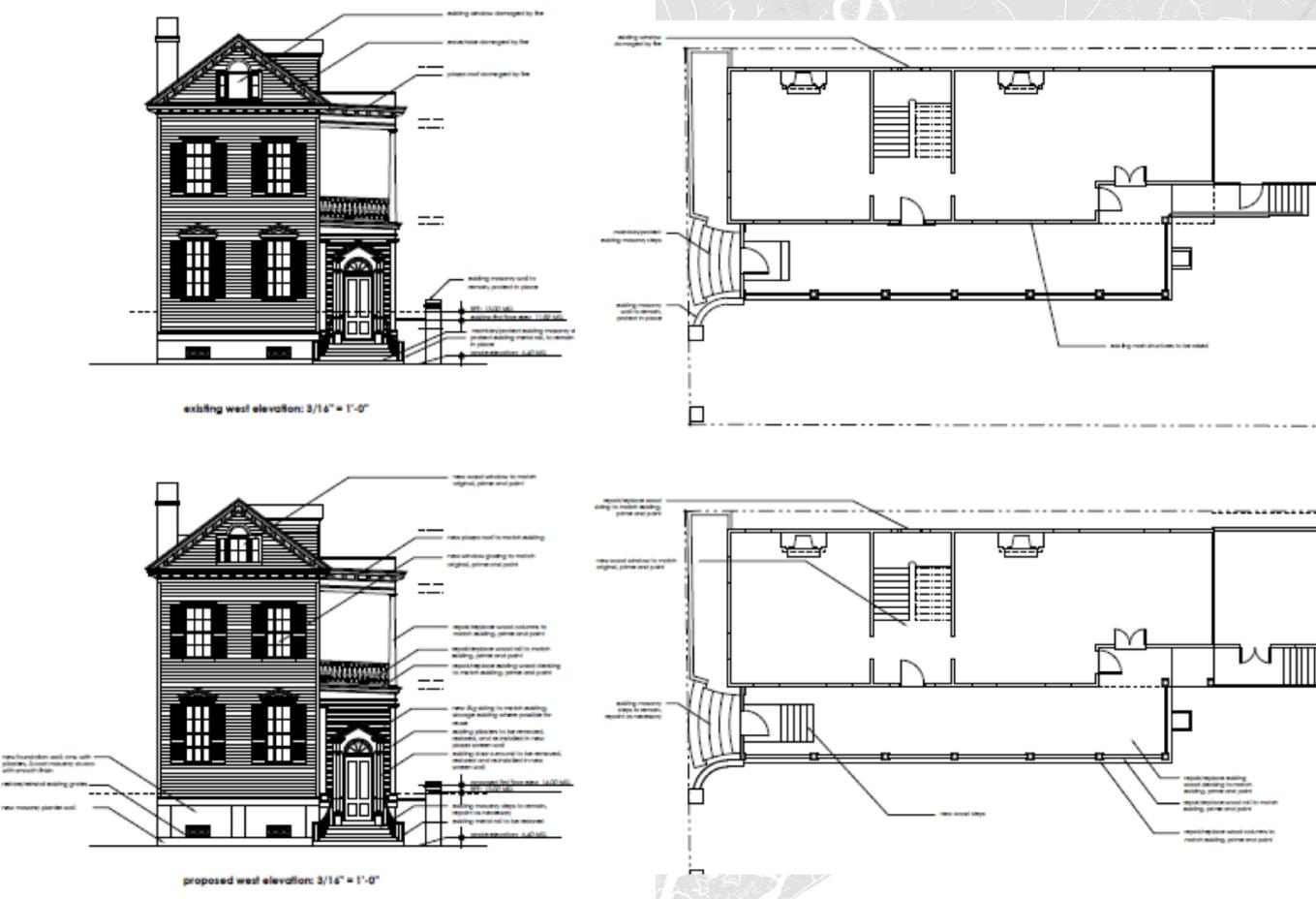


Streets (Carto) Proposed LCRT Route

LCRT Route Proposed I-526 Route







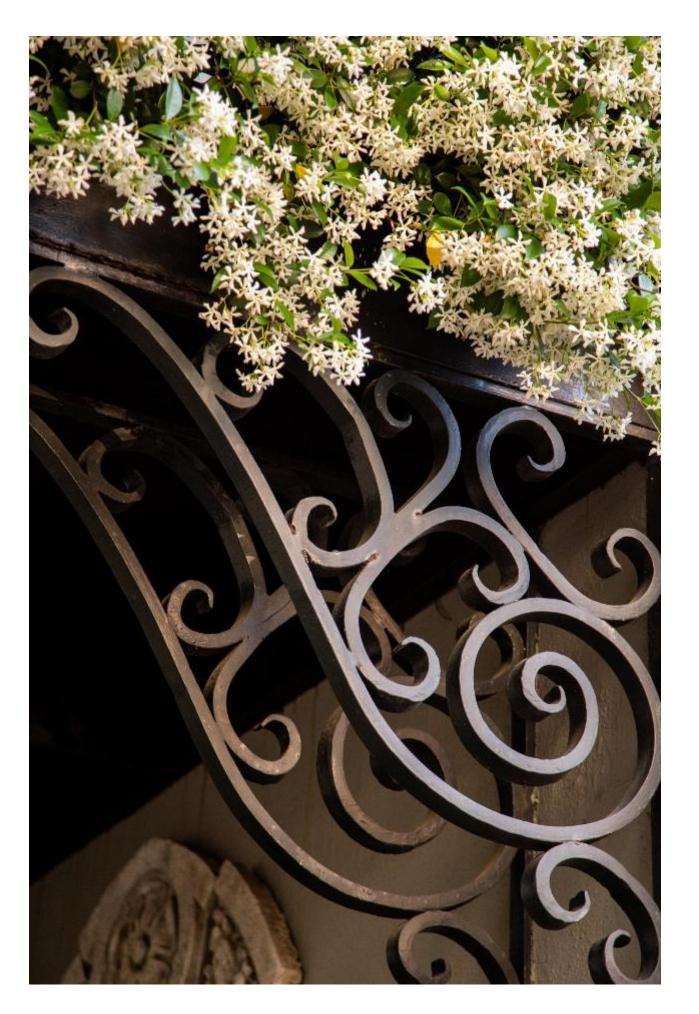


APPROVED SOUTH ELEVATION IN CONTEXT



CONTEXT









Ed McMahon of the Urban Land Inst. -Secrets of Successful Communities

- 1. Develop a shared vision for the future
- 2. Inventory local and regional assets
- 3. Build plans around the enhancement of assets
- 4. Use education, incentives, partnerships, and voluntary initiatives, <u>not just</u> regulation
- 5. Pick & choose among development proposals
- 6. Cooperate with neighbors for mutual benefit
- 7. Protect community character & foster an authentic sense of place
- 8. Have strong leaders & committed citizens

Keep Charleston REAL



PSC advocates for

- a city that is **RESILIENT** in its responses to a wide array of challenges;
- a city whose citizens are ENGAGED and informed on key issues
- a city whose character is AUTHENTIC rather than marketed as a "brand;"
- a city that is highly LIVABLE and prioritizes residents' needs

