FLOODPLAIN & FLOODPLAIN WITH SEA LEVEL RISE

100% IN 500 YR FLOODPLAIN

63% 57867 PEOPLE IN LEAGUE CITY AT RISK

ZIXU QIAO, MLA 2017
STORM SURGE INUNDATION & HISTORICAL HURRICANES
(SLOSH MAXIMUM OF MAXIMUMS)

TEXAS HISTORICAL HURRICANES 1851-2014

ALONG ANY 15 MILE SEGMENT OF THE TEXAS COAST
THE FREQUENCY OF A NORMAL HURRICANE IS EVERY 5 YEARS
MAJOR HURRICANE IS EVERY 15 YEARS

CATEGORY 5
STORM SURGE INUNDATION

INUNDATION DEPTH
UP TO 3' ABOVE GROUND
GREATER THAN 3' ABOVE GROUND
GREATER THAN 6' ABOVE GROUND
GREATER THAN 9' ABOVE GROUND

SLOSH model MOMs are an ensemble product of maximum storm surge heights. MOMs represent the worst case scenario for a given category of storm and initial water level.
221,921 ft$^3$
VOLUME CAPTURE CAPACITY

-26%
DECREASED IMPERMEABLE AREA

$419,901$
ANNUAL GREEN BENEFITS

ATMOSPHERIC OXYGEN

EVAPOTRANSPIRATION

POROUS PAVING

SUB-GRADE SOIL

PHASE 3 - CONTROL FLOOD

ZIXI QIAO, MLA 2017
CLIMATE CHANGE
ARMOR