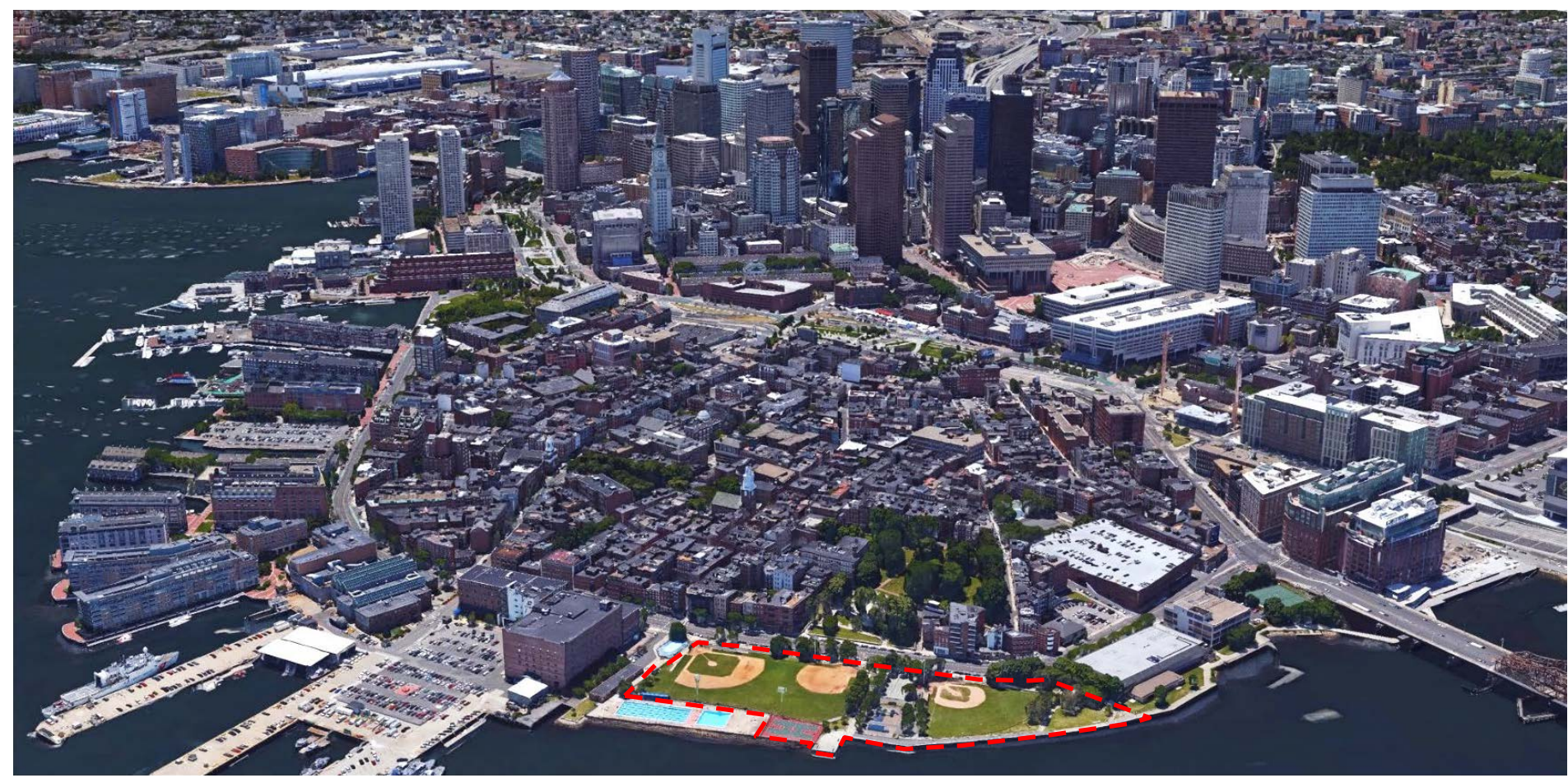
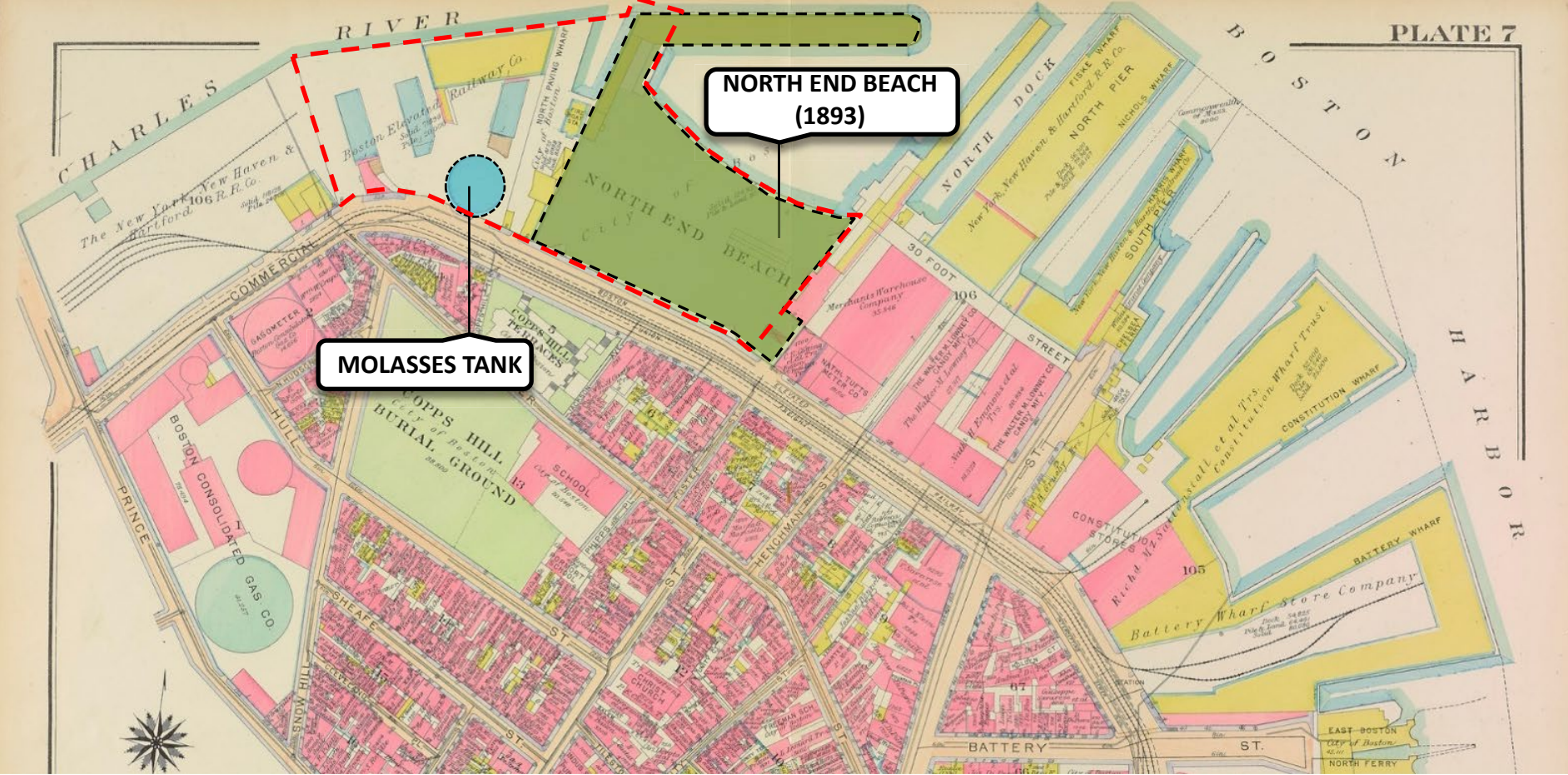


langone park & puopolo playground renewal: a catalyst for climate-resilient design



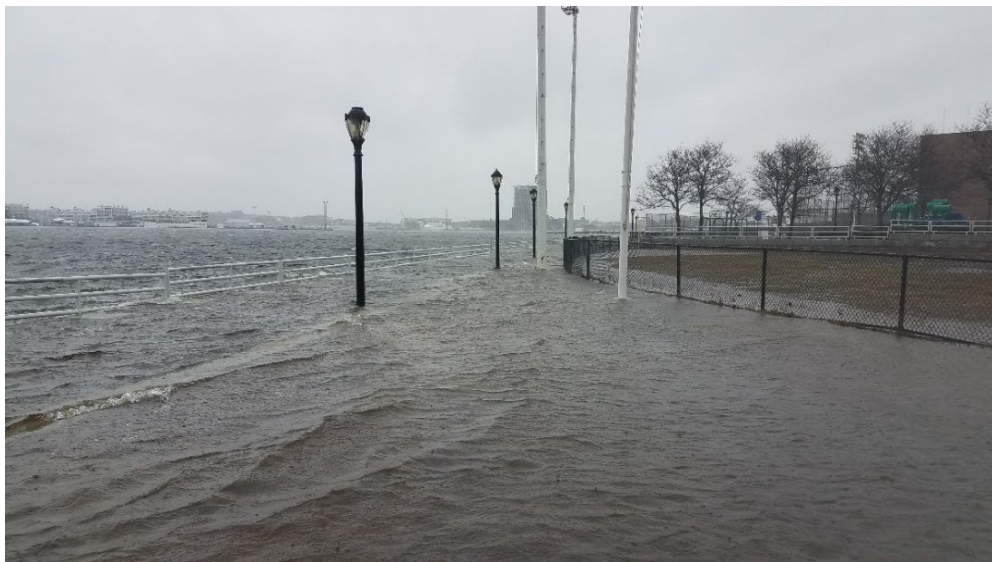
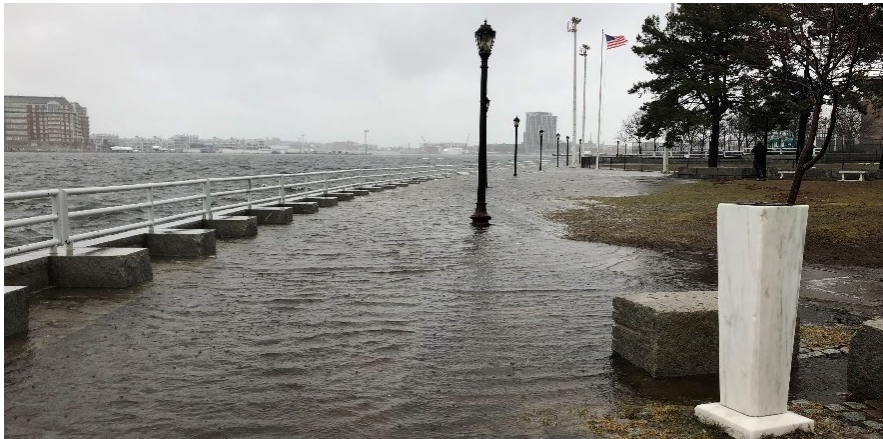






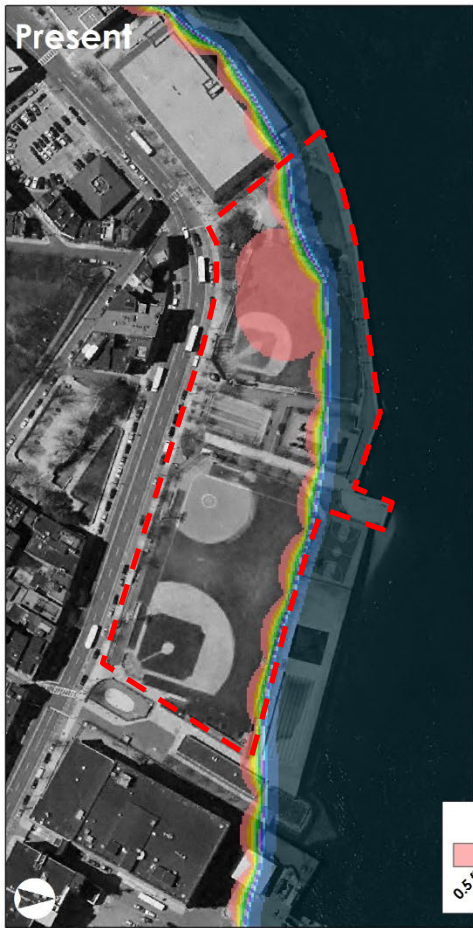
**MOLASSES FLOOD
(JANUARY 15, 1919)**



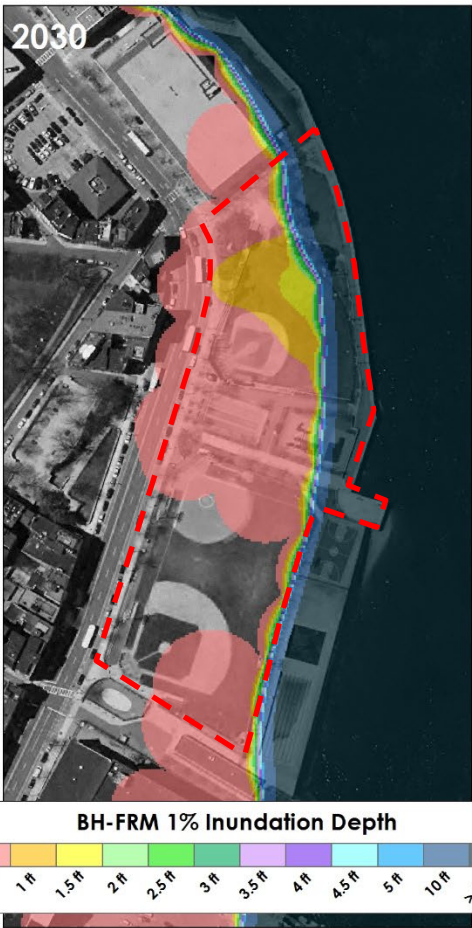


**NOR'EASTER STORM
(MARCH 2, 2018)**

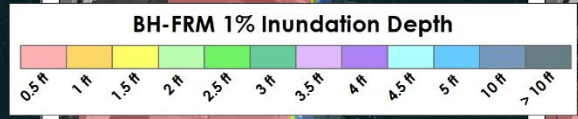
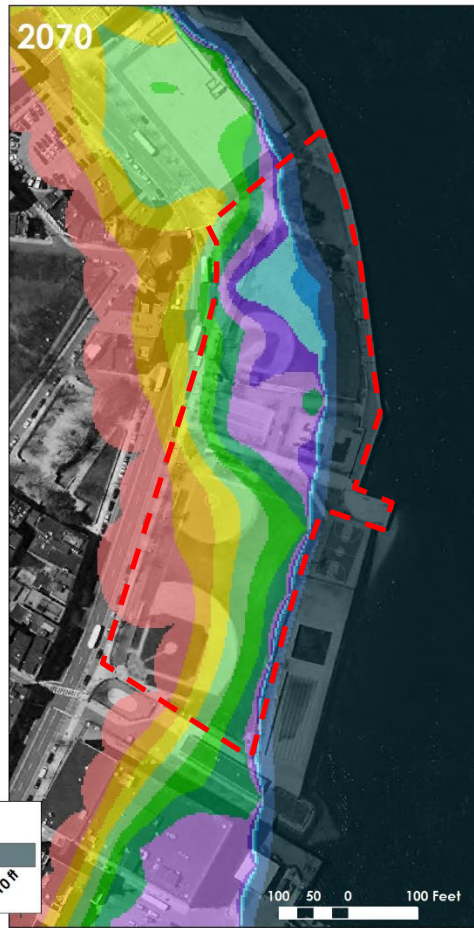
Present

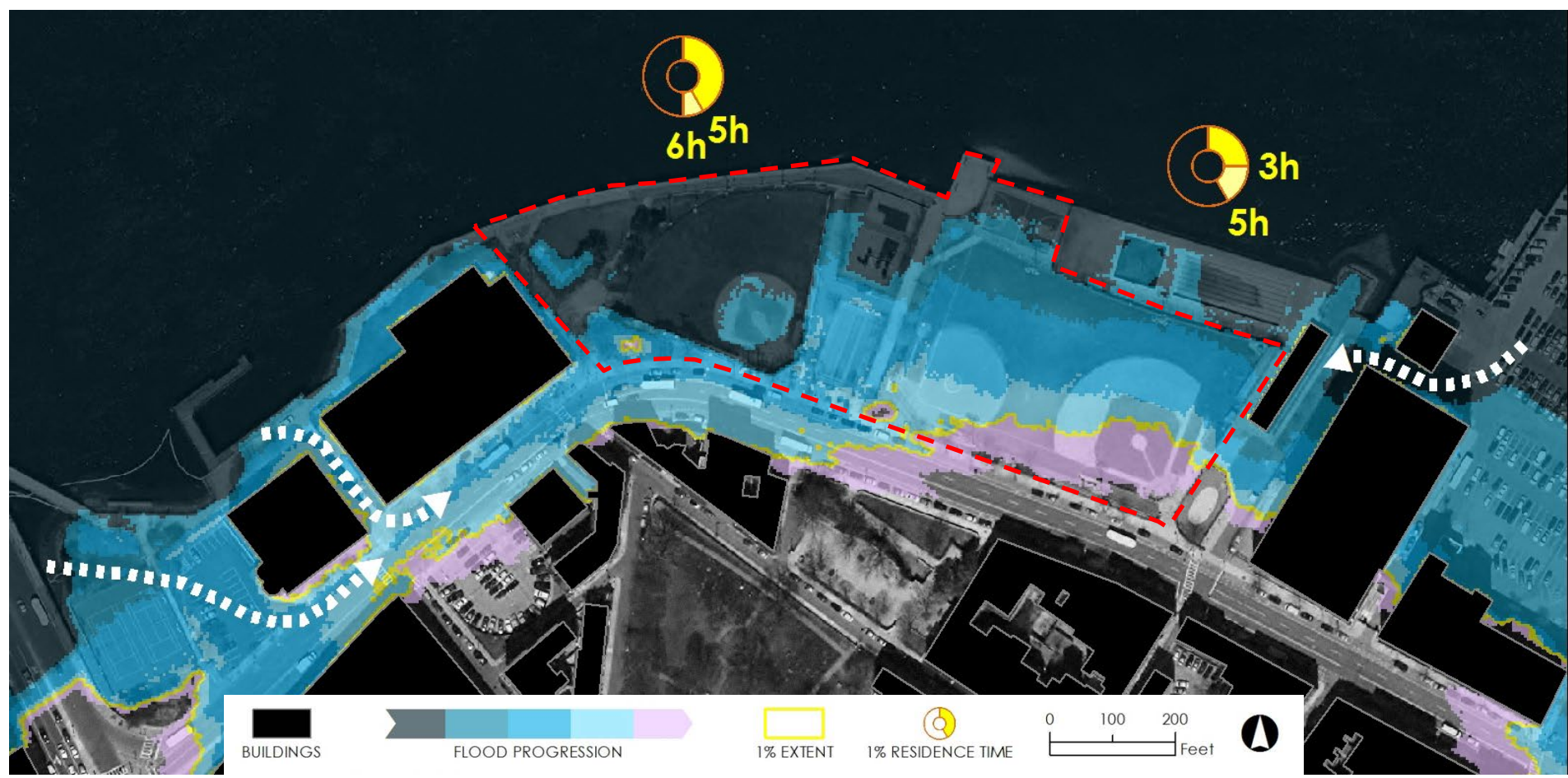


2030



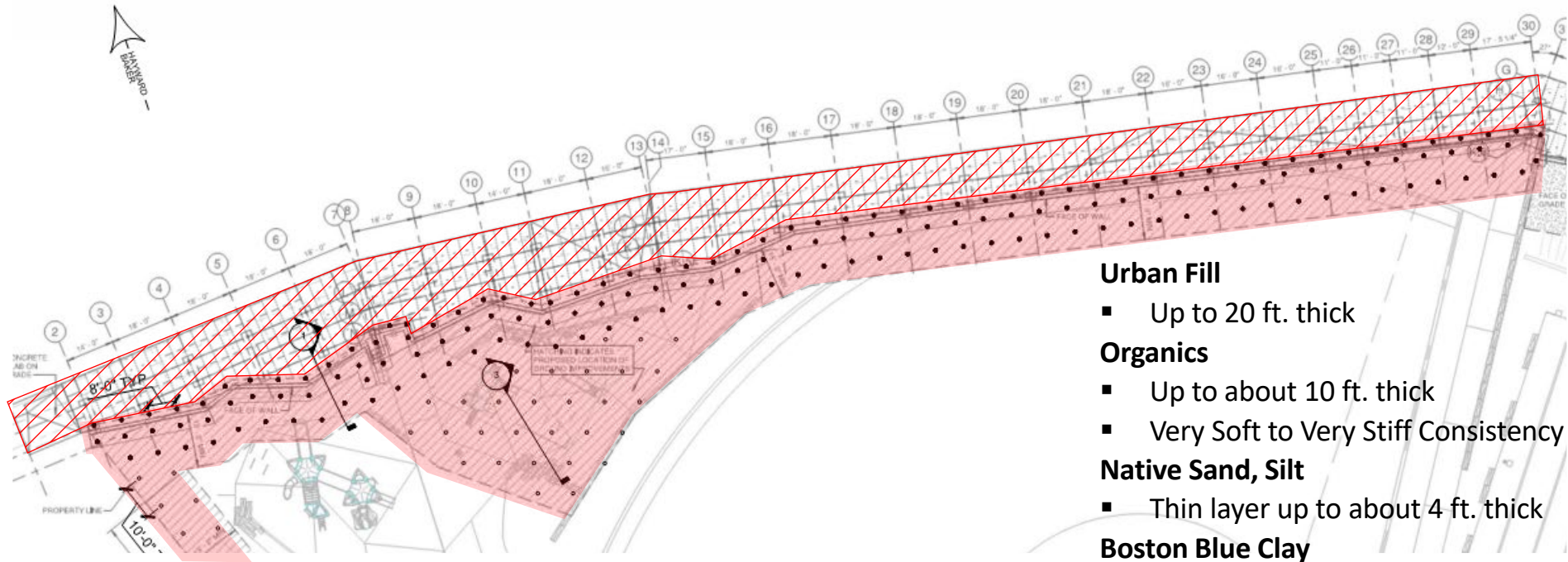
2070





BOSTON HARBOR





Urban Fill

- Up to 20 ft. thick

Organics

- Up to about 10 ft. thick
- Very Soft to Very Stiff Consistency

Native Sand, Silt

- Thin layer up to about 4 ft. thick

Boston Blue Clay

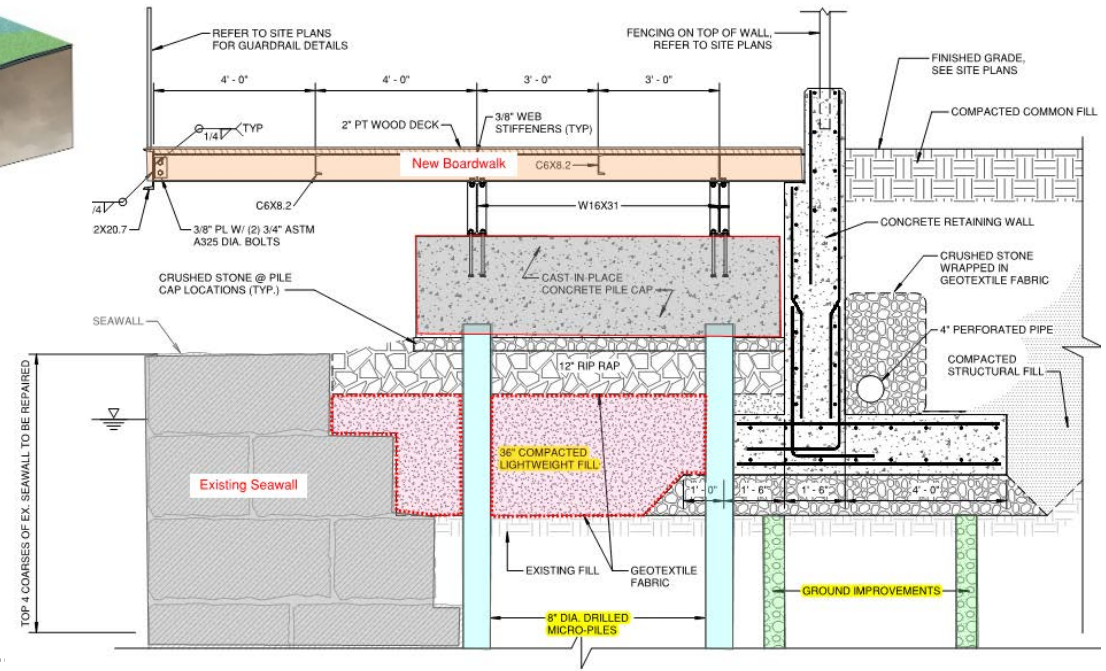
- Up to 30 ft. thick

Glacial Till

- At depths of 55 to 68 ft.

Groundwater

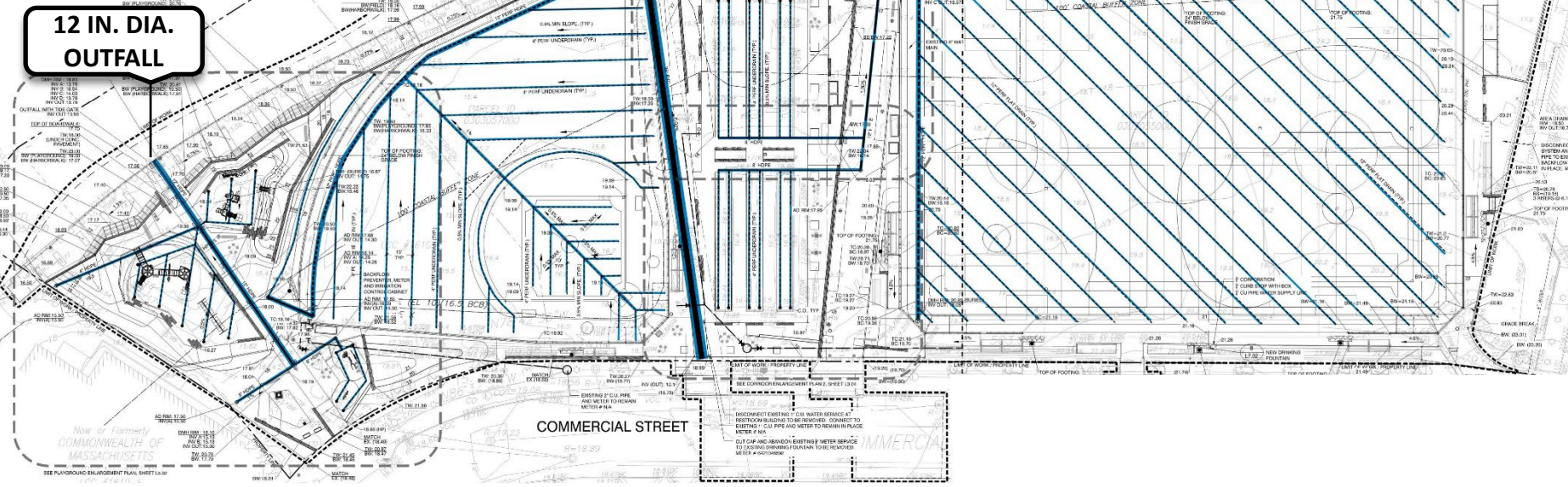
- At depths 4 to 7 ft.



**36 IN. DIA.
OUTFALL**

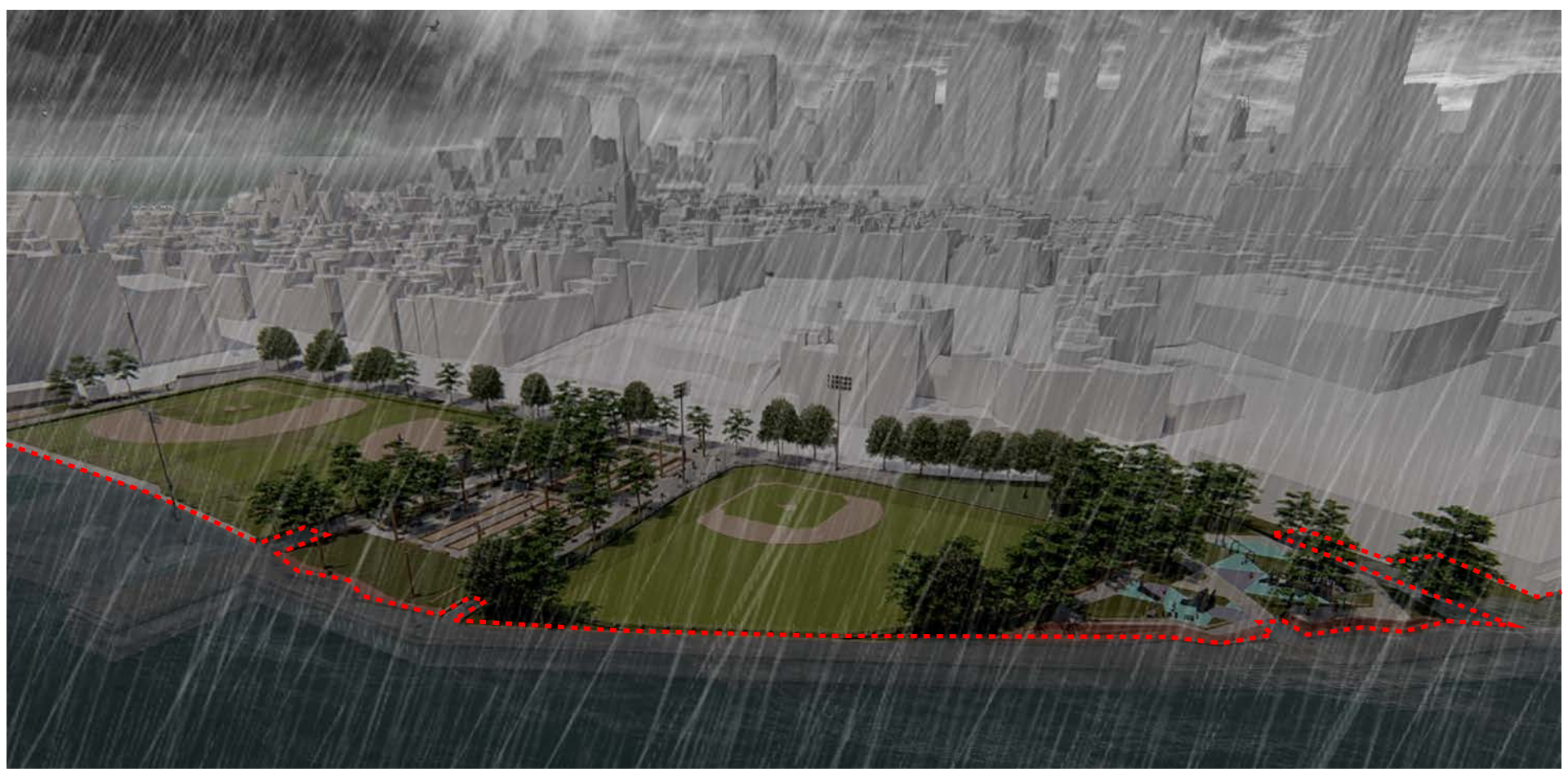
**12 IN. DIA.
OUTFALL**

- GROUND AND DRAINAGE NOTES**
1. ALL WORK RELATED TO INSTALLATION, REPAIR OR MODIFICATION OF DRAINAGE SYSTEMS SHALL BE PERFORMED IN ACCORDANCE WITH THE ENFORCEMENT OF THE CITY OF WESTON AND REGION WATER AND SEWER COMMISSION.
 2. THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS, GRADES AND INVERT ELEVATIONS IN THE FIELD AND REPORT ANY DISCREPANCIES IMMEDIATELY TO THE OWNER AND OWNER'S REPRESENTATIVE.
 3. ALL NEW WORK MUST CONFORM TO CURRENT APPLICABLE STATE AND FEDERAL ACT (ADA) REGULATIONS. UNLESS OTHERWISE SPECIFIED, ALL NEW WORK SHALL BE CONSTRUCTED TO A MINIMUM OF ONE AND ONE HALF (1.5%) PERCENT AND THE RUNNING SLOPE PARALLEL TO THE DIRECTION OF TRAVEL OF AID.
 4. MINIMUM SLOPE ON ALL NEW WORK SHALL BE 1/100 OR 1% TO PROVIDE POSITIVE DRAINAGE. ANY DISCREPANCIES NOT ALLOWING THIS TO OCCUR SHALL BE REPORTED TO THE OWNER PRIOR TO CONTINUING WORK.
 5. ALL UTILITY GRADES, CONCRETE OR OTHER SURFACE ELEMENTS WHICH ARE EXPOSED AT GRADE SHALL BE FLUSH WITH THE ADJACENT FINISHED GRADE AND ADJUSTED TO PROVIDE A SMOOTH TRANSITION AT ALL JOINTS.
 6. THE CONTRACTOR SHALL BE RESPONSIBLE TO CALL FOR POSITIVE DRAINAGE AND PROVIDE SMOOTH CONTROL DEVICES, STRUCTURES, MATERIALS AND CONSTRUCTION METHODS TO DIRECT SURF WATER AWAY FROM DAMAGE AND DRAINAGE SYSTEMS, PULP/CHIPPED WOODS AND WORK AREAS. CLEAN DRAINAGE ROADSIDE AND AT THE END OF THE PROJECT.
 7. WHERE NEW BATHROOM MEETS EXISTING BATHROOM, CONTRACTOR SHALL BLEND NEW BATHROOM SMOOTHLY INTO EXISTING, PROVIDING VERTICAL CURVES OR ROUNDS AT ALL TOP AND BOTTOM OF SLOPES.
 8. UNDER A SPECIFIC LINE OF WORK LINE IS NOT OBVIOUS ON MAPS, BLEND CHANGES TO EXISTING CONDITIONS WITHIN 5 FEET OF PROPOSED CURVATURE.
 9. INSPECT ALL DISBURSED AREAS AND LIMITS OF ALL MATERIALS TO LAMP AND SEAL UNDER OTHERS NOTED.
 10. UNDER NEW IMPROVEMENTS MEET EXISTING CONDITIONS, STREET LINE AND GRADE OF EXISTING ADJACENT PAVEMENTS TYPICAL.

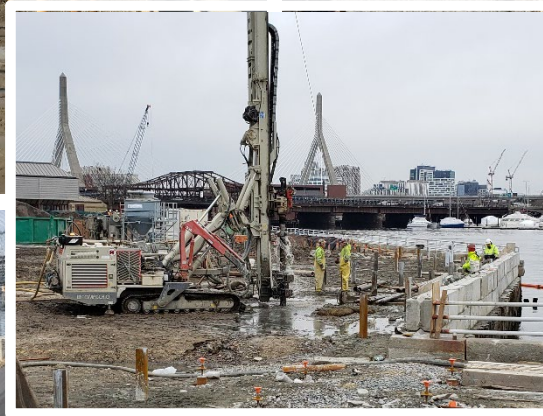


BOSTON HARBOR



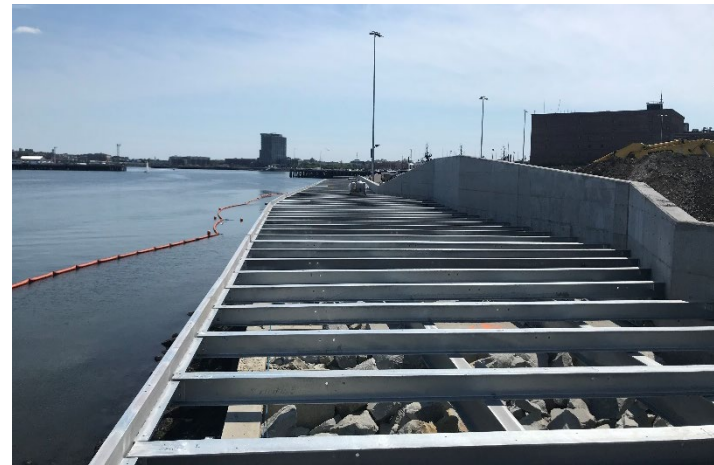
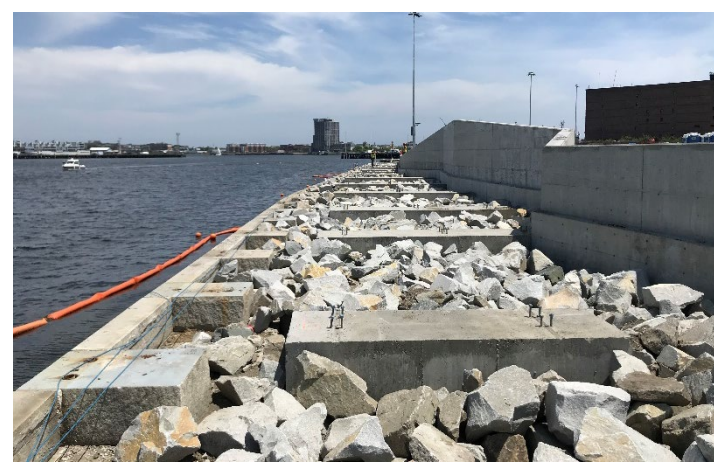


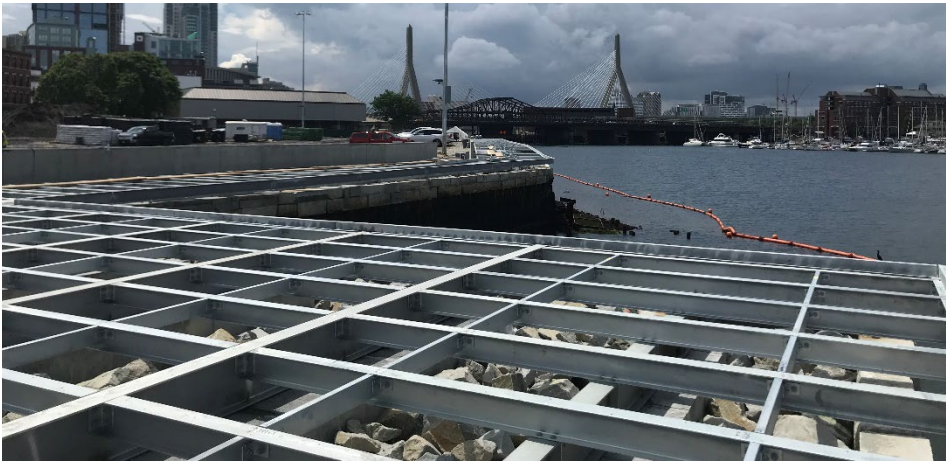


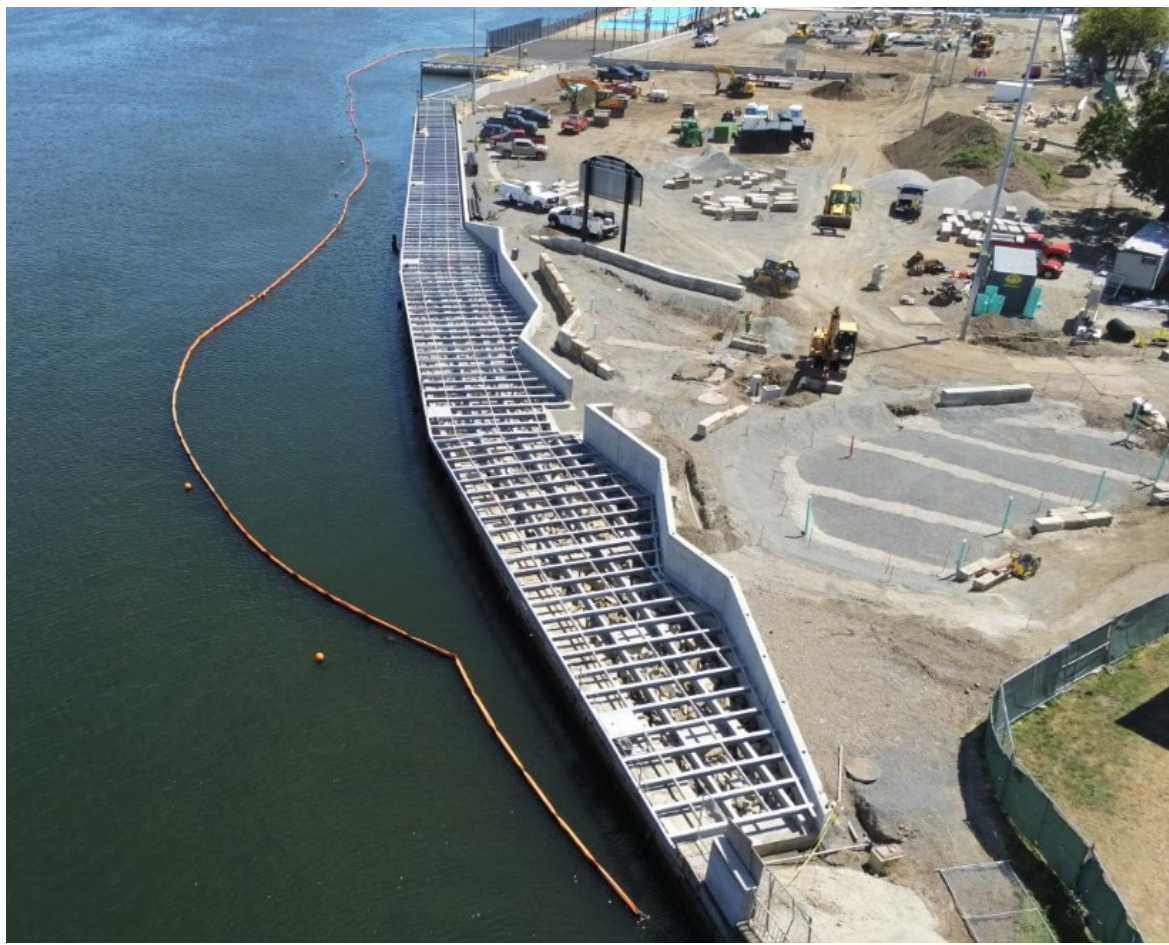












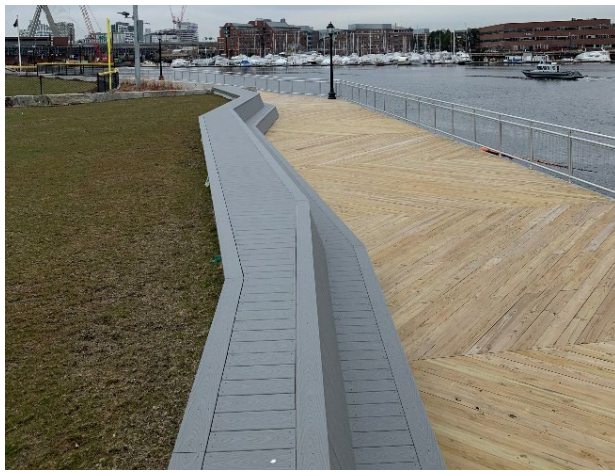




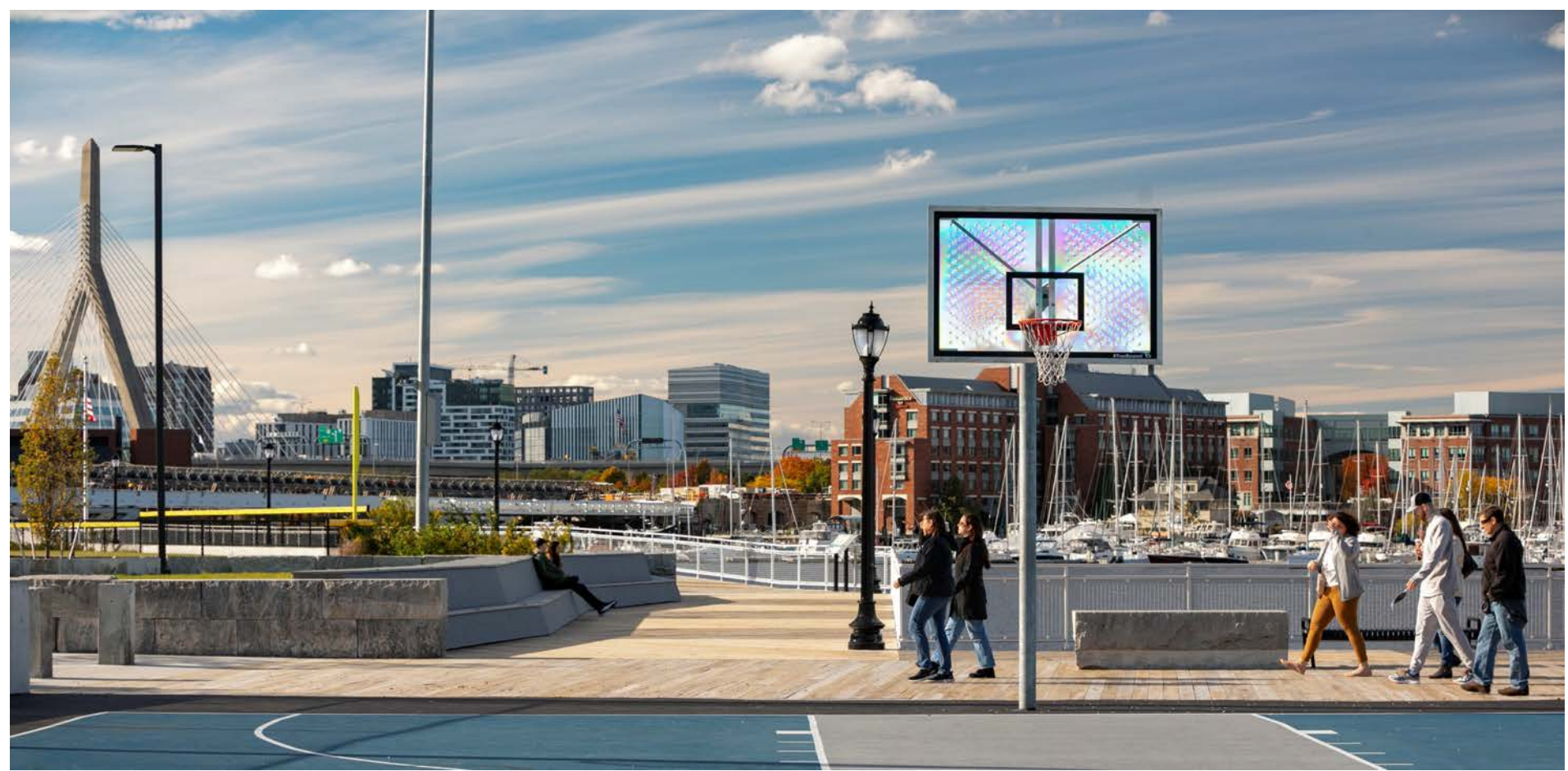




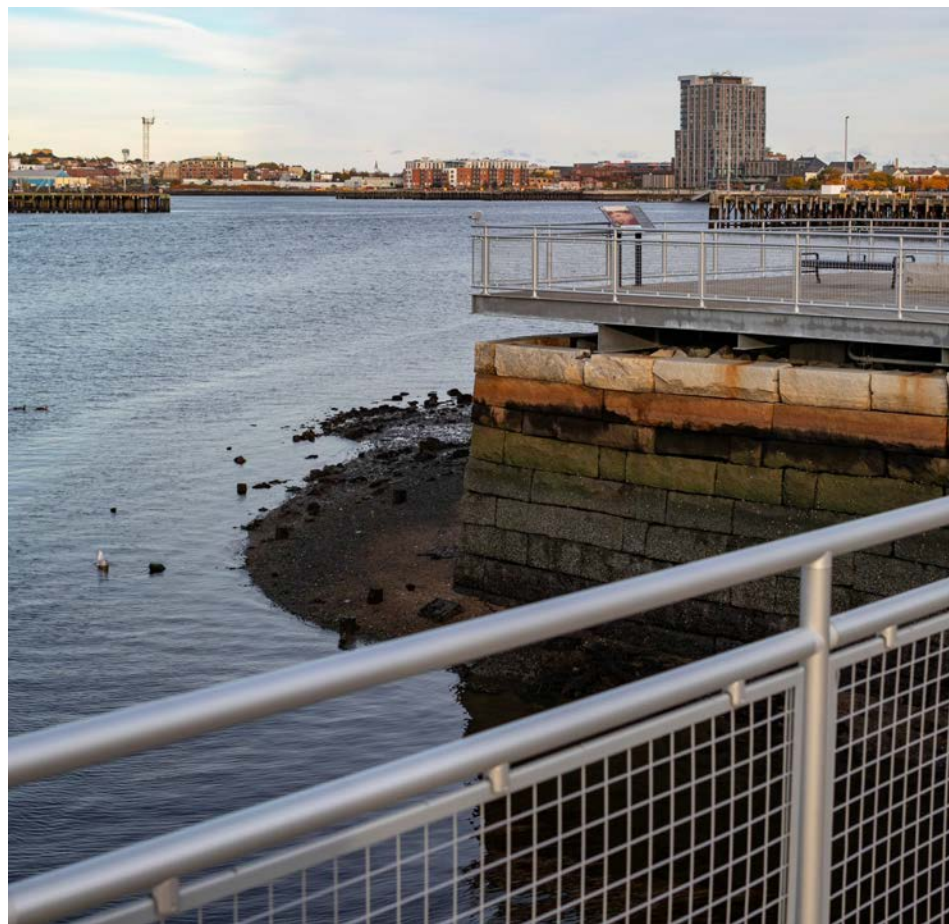
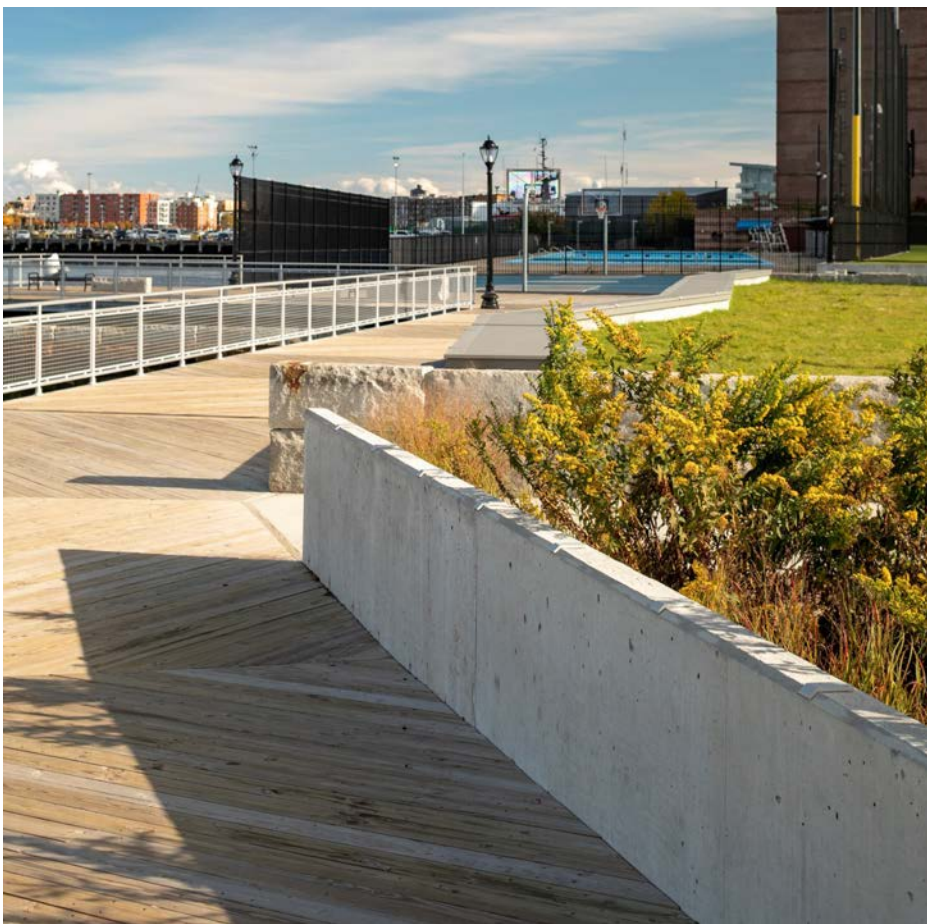


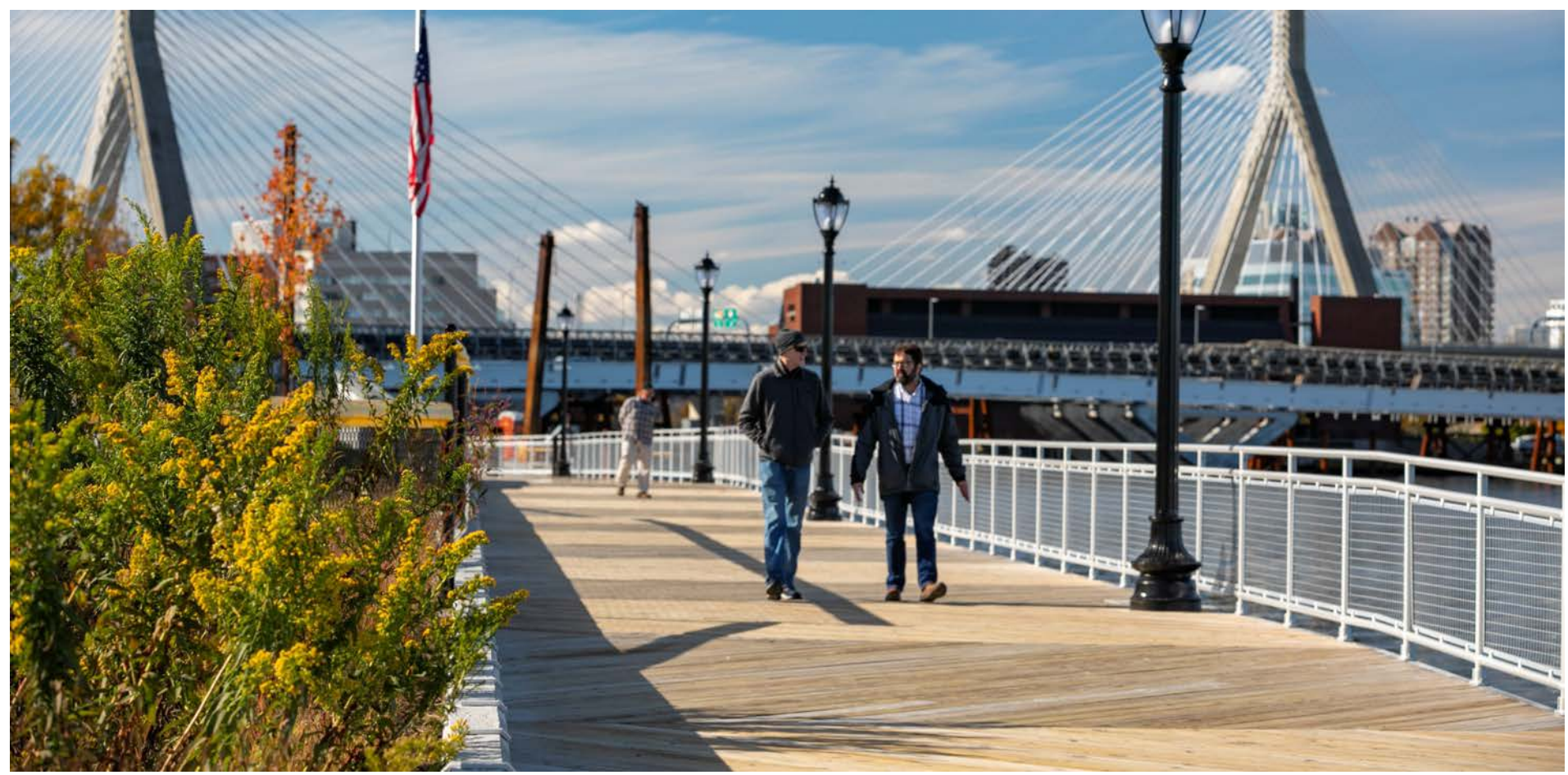




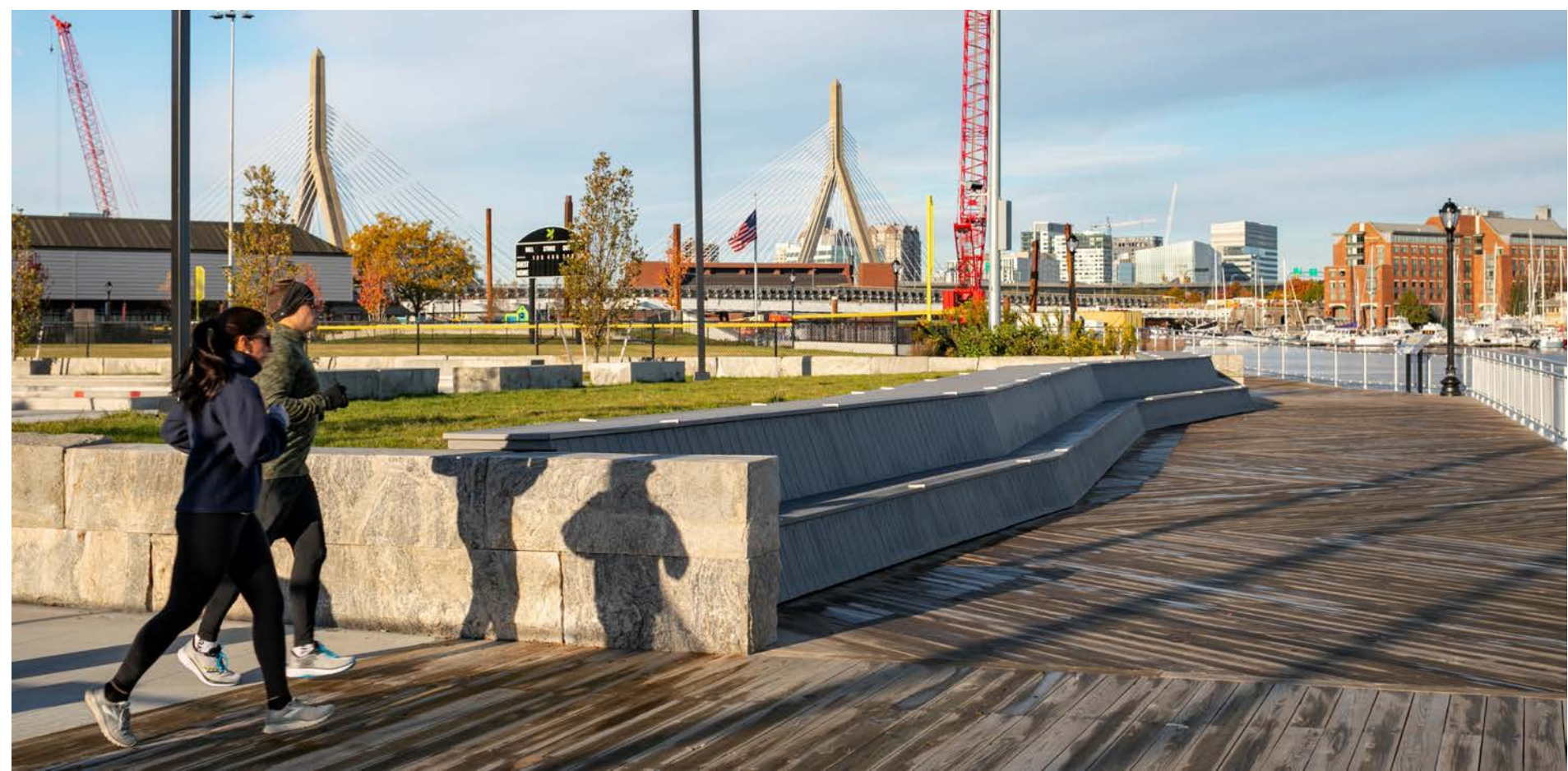


Weston & SampsonSM





Weston & SampsonSM





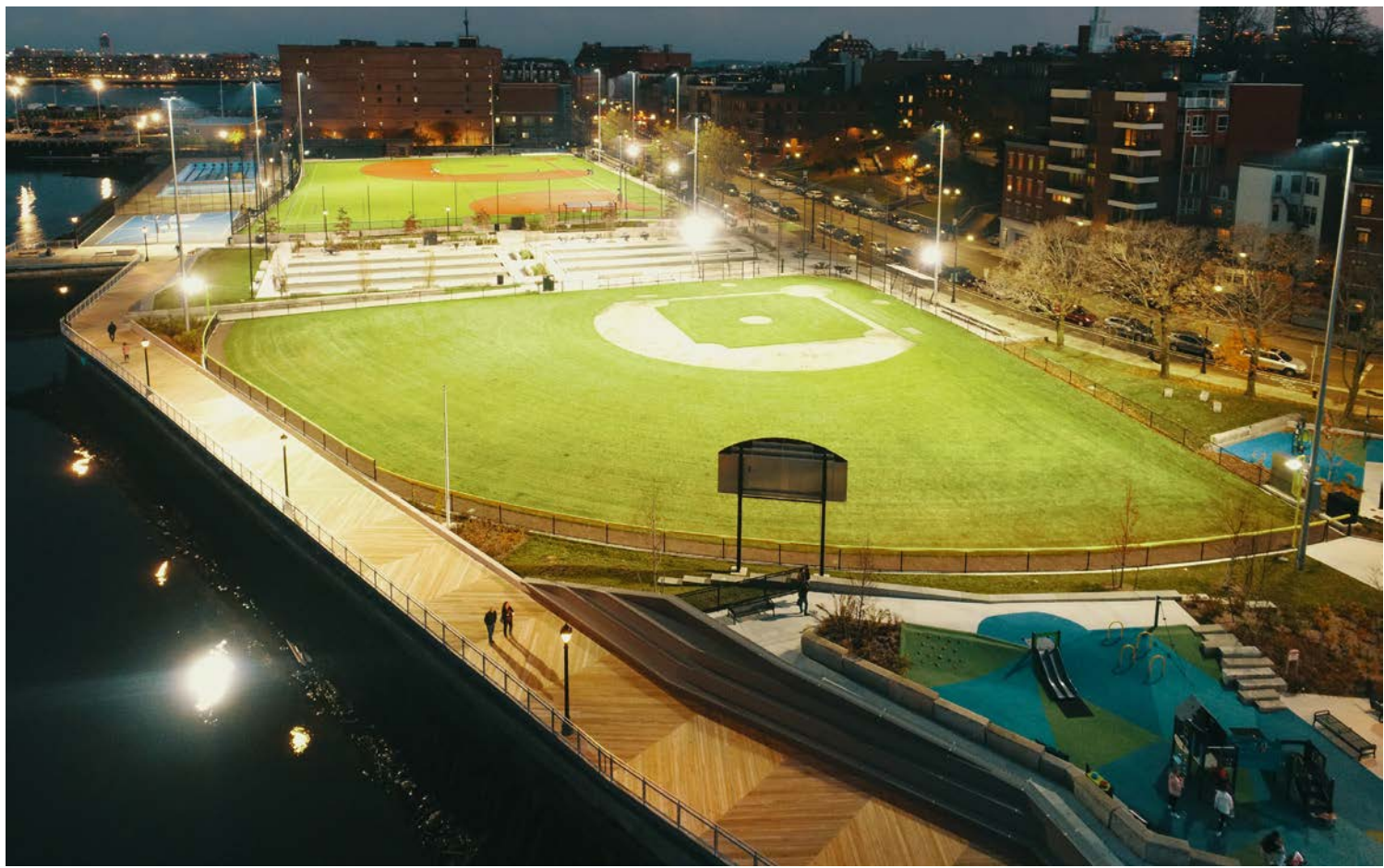




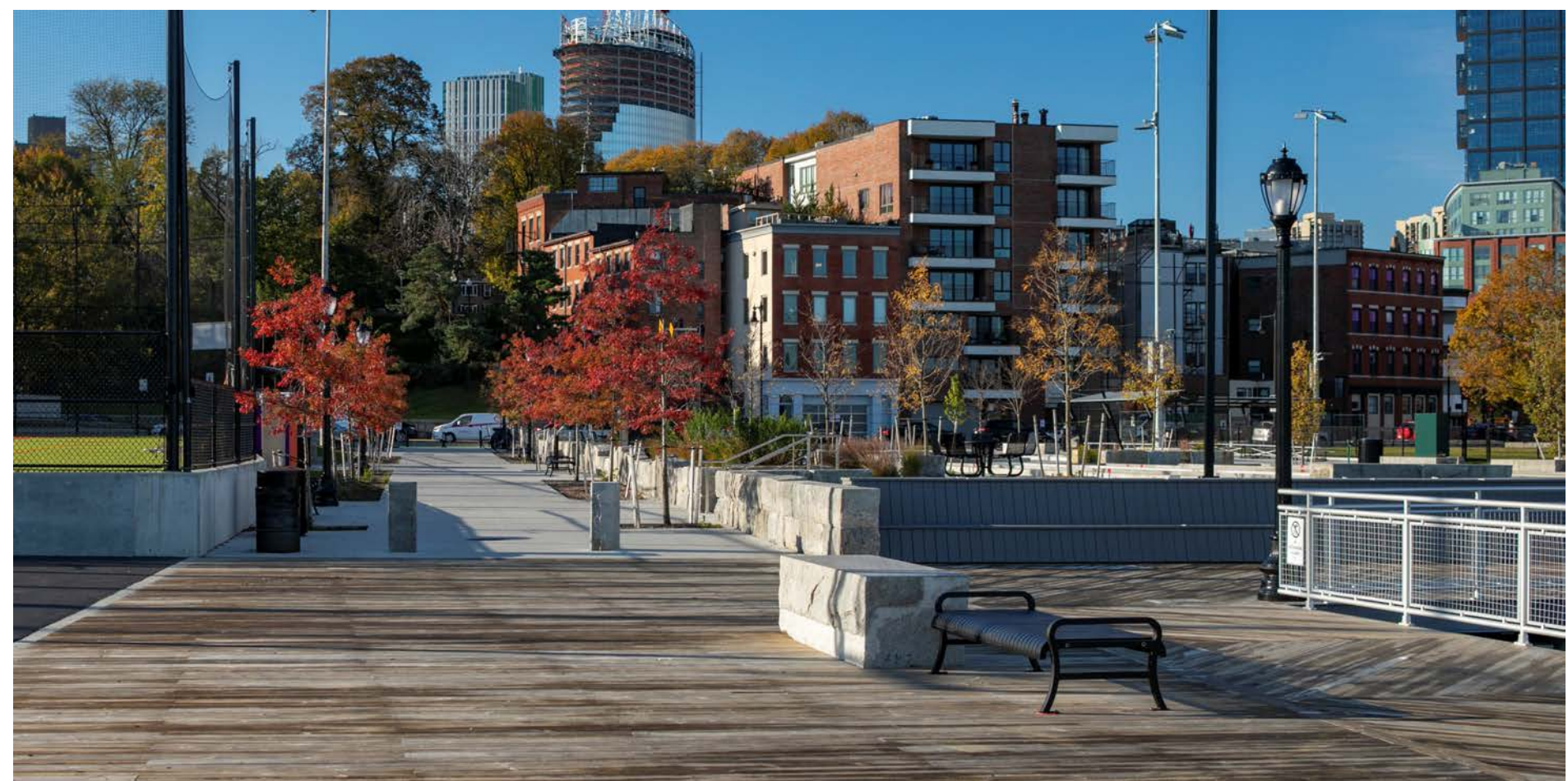


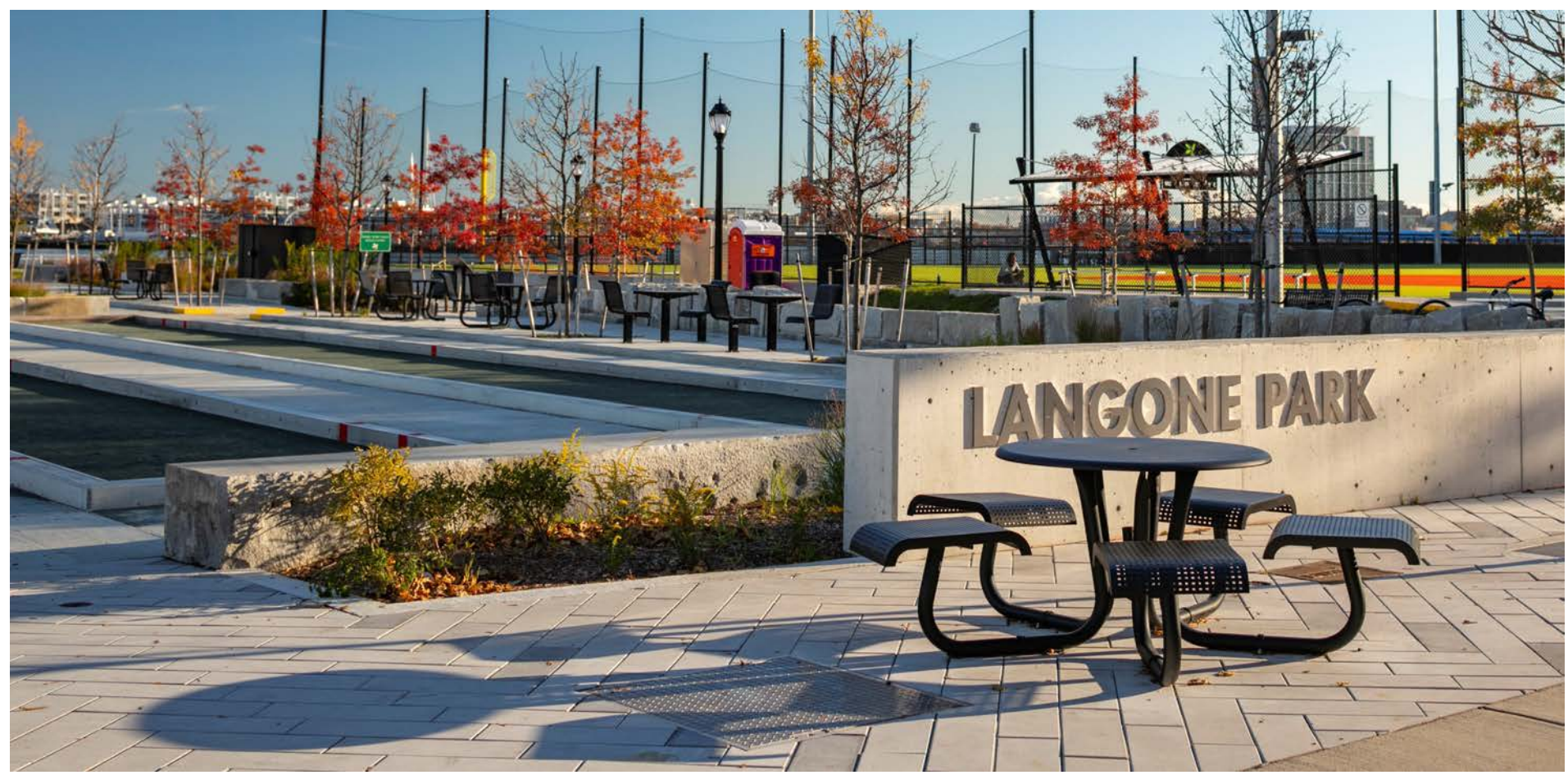
Weston & SampsonSM





Weston & SampsonSM







thank you

BRANDON KUNKEL, RLA
LANDSCAPE ARCHITECTURE
PRACTICE LEADER