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The Unified Vision for Downtown Public Space provides the city with an opportunity to create a network of public space in Providence's downtown core that is dynamic, lively, and above all, accessible and welcoming for the diverse communities who live and work in, or visit this space. As this vision clarifies, it is essential to look back at the planning history of this space to understand the ways in which it has been used strategically over time to expand the dominance of certain groups within the city, from its founding through the present. Recognizing and acknowledging this history is a necessary first step as we formulate a new vision for the future.

When the first English settlers arrived from Salem, Massachusetts with Roger Williams in 1636, their first order of business was to divide the land that Williams purchased from two Narragansett sachems— Canonicus and Miantinomi—into thirteen housing plots east of the Moshassuck River. In what would be the first "plan" for what is now the Kennedy Plaza area, the settlers divided the marshland and meadow west of the Moshassuck, extracting timber and other natural resources to support the construction and expansion of their farms. As these first settlers built walls to mark their property and enclose their livestock, they transformed an open landscape into a grid of privately held lots. What had been collectively held—stewarded, not owned—became a commodity that could be divided up

and passed down within nuclear families, its value now tied to the resources that could be extracted from it. The settlement of the land on which Kennedy Plaza now sits was an early harbinger of the total transformation of the continent that would take place over the two hundred plus years to follow as land was transferred from Indigenous communities to settlers, speculators, and local and federal governments. Platted, it could be bought, sold and taxed.

Until about 1800, the site saw little change. Then, around the turn of the century, the city became a center of maritime trade and then manufacturing, a period of growth that would not end until the 1940s. In the early part of the 18th century, the Weybosset Bridge was destroyed and rebuilt several times; it served the settlers who needed to get across to their lands, and those bringing back produce to sell in Market Square, or droves of livestock that farmers were bringing back to slaughter. By the end of the century, the bridge was sturdy enough to handle horses and wagons, and roads on the west side of the river started to develop. Over this century, the enslavement of Africans and Native Americans was codified by laws enacted every few years that curtailed their freedoms, and slavery came to take on a more central role in the local economy and social life.

Over the 19th century, the nearby Great Salt Cove was gradually reshaped. According to Angela DiVeglia:

Providence's City Council granted railroad companies the use of a depot site on fill alongside the Cove, on the condition that they would pay to build a public park around the rest of the Cove. The companies complied, creating an elliptical cove nearly a mile around and surrounded by walkways and shade trees, with the rail depot to the southeast and the State Prison on the northwestern shore. The Cove park provided an important green space in downtown. In 1886, the Public Park Association referred to the Cove lands as "a ventilator of the city and a resort for the people," whose "cooling influence is very great." While indeed a source of shade and cool breezes, the cove was heavily polluted with waste from mills and slaughterhouses upstream. As Providence didn't have a sewage treatment system until the 20th century, the rivers served as sewers, with human waste accumulating in the Cove and creating very unpleasant odors at low tide. (As one writer colorfully put it, the Cove was "made the receptacle of the excreta of a large part of the city.") By 1881, the Cove had been essentially cut off to foot traffic from most of downtown

by busy railroad tracks, making it a much less desirable destination for casual strollers, and had become a congregating spot for "disreputable persons." A long and tumultuous debate about whether to fill the Cove and cover it over with railroad tracks ended when the city sold the Cove Basin, cove lands, and promenade to the railroads. It was filled in 1891 and 1892, with tracks built on the extensive fill. This portion of downtown remained dry land until the Providence Renaissance of the late 1990s; the circular tidal basin at Waterplace Park was created more than a hundred years after the original was filled, an homage to Providence's Great Salt Cove.

Angela DiVeglia, "The Providence Cove," *Rhode Tour*, accessed online, June 16, 2021: https://rhodetour.org/items/show/351.

During this period, the land on this site changed radically as well. Development started to spread from Main Street westward over the rivers, and a horse-carriage company began to operate in this space by around 1800. Kennedy Plaza began to take the shape it has today when Exchange Place was built in 1848; an indicator of the site's new centrality was that City Hall moved from Market Square to its current building in 1878. During the 19th century, monuments were added to this space in a piecemeal fashion: the Soldiers and Sailors Monument was added in 1871, the monument to Ambrose Burnside was added in 1887, and the Bajnotti Fountain was constructed in 1899. With the burning of the Union Depot in 1896, Union Station was constructed, Burnside Park was landscaped, and the site began to take on its modern shape. Looking at maps of the site over the 19th century, one key element stands out, which is the way in which, from the very beginning, it has been shaped by transportation lines that radiate out from this point: first wagon paths for commercial businesses that offered service to Connecticut and Massachusetts, then railroad lines and streetcars, and finally, automobiles and buses.

By the 1910s, Kennedy Plaza was the amorphous space we know today, with recreational and commercial space coexisting uneasily with a transportation hub, an uneasy balance between people and vehicles that has continued into the present.

Significant changes to the site in the 20th century include the construction of the Biltmore Hotel (1920), the Fleet Bank/Industrial Trust Building (1926), the John O. Pastore Federal Building (1938), and the Providence River Relocation and Riverwalk construction (1984-96).

During each successive century, this site has registered evolutions of power in the city, and has actively participated in them, abetting the erasure of Indigenous peoples and communities of color. This history of dispossession and forced removal begins with the arrival of the first colonial settlers, and it continues through the appropriation of Native American lands in the 17th and 18th centuries to make way for farms, taverns, roads, and factories, and Providence's participation in the global slave trade. The people and businesses that occupied space in Kennedy Plaza in the 19th and 20th centuries benefited from an economic, political and social system that disenfranchised many, whether through the slave economy, the demolition of the multi-racial Snowtown neighborhood, the "redlining" of urban communities of color in the 1930s, or the urban renewal projects of the postwar period, such as the construction of I-95, which permanently severed connections between neighborhoods of color and the city center. At the same time, monuments and commemorative art that was placed in this space memorialize the elite (Burnside and Bajnotti), or the familiar trope of white

male military service as the highest contribution to the community and country (Soldiers and Sailors, The Scout, The Hiker). Power and inequity have left their physical marks on this site over time.

Although these scars are still intact, it must also be said that we have inherited a site that has served well for civic and community gatherings, celebrations, and protest, thanks in part to the fact that the plan and design of this part of the city took its shape when it did, at a time when open vistas and urban parks were a new part of the design vocabulary. A lot of living has been done in this space over time. To form community, we need spaces where we can come together; in Providence, Kennedy Plaza is this space.

How will the 21st century leave its imprint on this important civic space, and what will these changes signal about our values and principles? Two decades into this new century, we are still grappling with the devastating and profound ways in which the design of our built landscape has been strategically used to separate, isolate or even eliminate certain groups. We recognize that there are people and communities who have served the city, state and nation who are not commemorated or represented in Kennedy Plaza today (Covid in particular has focused our attention on the patriotic care work done every day by teachers and public health workers). The question now is whether we can

repair the damage that has been done and build a truly inclusive city. To do so, we will need to think about the redesign of public space as an important element of restorative justice.

- Marisa Brown

Design Update

Design Overview

Design Overview

The work completed through the 10% design phase was focused on outlining the existing site conditions and wishes from the Providence communities, in order to identify the main infrastructural changes needed to unify the different parts of the project area and to develop a program.

The work completed through the 30% design phase is focused on creating an urban design style that unifies the area, and to progress all aspect of the design from universal access through the area, to the selection of materials and vegetation, and progressing the engineering documents.

The genesis of the urban design approach aims to incorporate the main themes outlined by the community outreach, such as the access to transportation, youth engagement, food and drinks, commerce, events, self-expression, Nature, Art, social services, but also to capture social under-current trends that would resonate with our younger generations and future users of our City center.

City centers are looking to re-define themselves to address fundamental societal and environmental phenomimes that have shaped our urban spaces for the last few several decades. Kennedy Plaza, the main City center of Providence, along with the recently uncovered Riverwalks and other constructions in the City, have been shaped to benefit the existing power structure in the City. Its monuments celebrate certain

historical moments but do not commemorate certain injustices that have equally contributed to the make-up of the City's history and collective memory. A change of paradigm is fundamentally influencing our societies to re-think, not only to improve how new public spaces influence the environment, but also how these interventions aim to better human-to-human interactions, to be more respectful, inclusive, fair, and engaging. This context has led the team to take a human-centric approach to the urban design, as an inside-out exercise.

The team is proposing a collection of islands, within the larger and now extended Kennedy Plaza, each one with a different character and selection of vegetation and material. Each island suggests different activations and re-inventions, such as celebrating a monument, attending an open-air lecture or impromptu performance, playing with a water feature, eating, making art and craft, meeting friends, relaxing, meditating, enjoying Nature, self-expression, etc. The islands fit smaller groups of individuals, while preserving large assemblies at the center of the plaza, reconciling the individual with the collective. They also introduces Play at the center of the city plaza, with elements of exploration, inter-action and surprise, as mechanism to foster ownership, agency, and create informal environments where individuals can feel safe to exist and openup to each other.

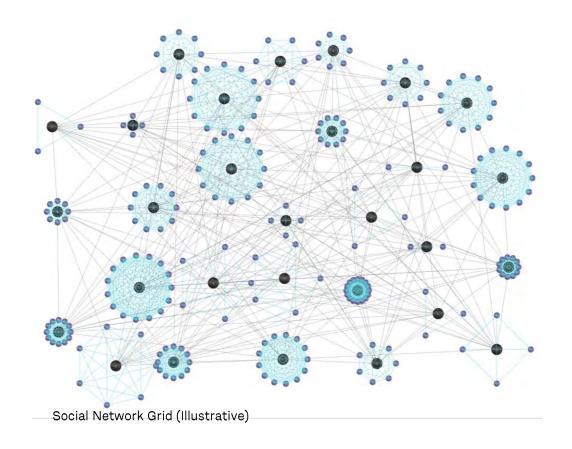
Design Overview

The design also acknowledge how the internet and digital age have forged different expectations for our City center to equally engage our real and digital existences and networks, by facilitating free access to the internet, and digital interactions such as upload/download, civic engagement, and SmartStreets. A digital cabling infrastructure, Wi-Fi emitters and video towers are distributed throughout the plans to provide real-time information about busses, events throughout the City and the State, but also to display art, commemorative work, and curated content from the local colleges.

The overall design unfolds manifestations of Nature, matter, and digital technologies, which aim to address 21st century demands. In line with Arup projects in other regions, the work aim to celebrate Play by engaging youth and families, Diversity with safe and smaller human-scale experiences, Ownership through multi-cultural programming and Play, the Telling of History through its digital infrastructure, Freedom of Expression and Assembly by preserving the central area of Kennedy Plaza, Resiliency with upgraded Riverwalks to resist sea-level rise, Natural ecology with riparian Rhode Island vegetation, Agency with areas for the assertion of youth, Support with essential amenities for people in need, and Culture with technologies for events and digital interactions.

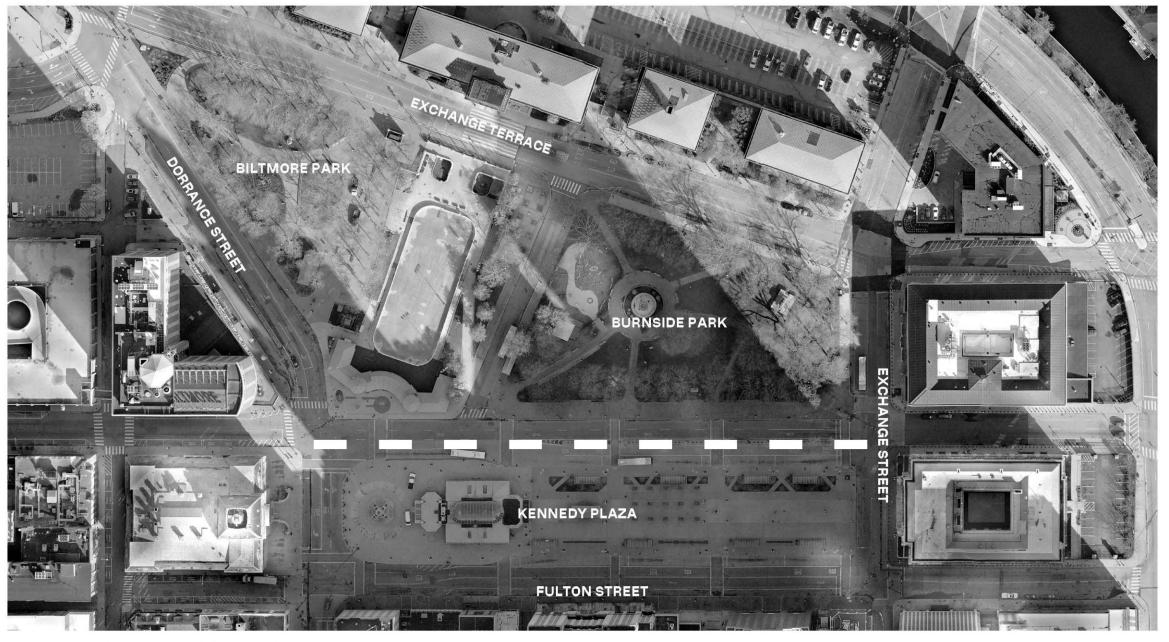
- Alban Bassuet

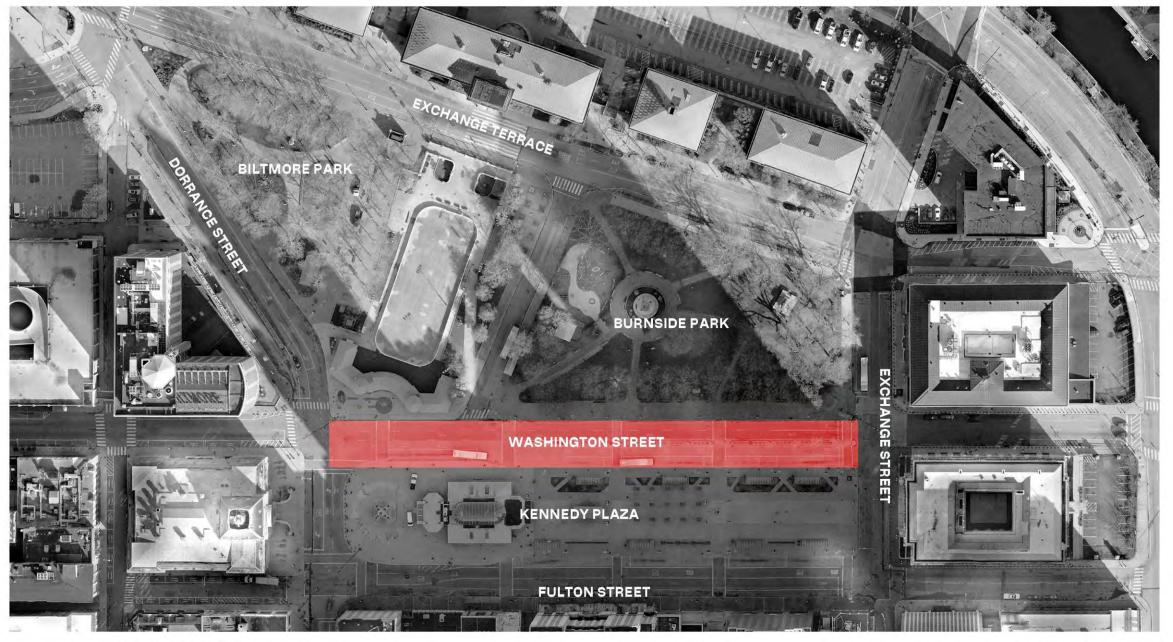
21st Century City Center Reconciling Physical Spaces and Digital Realities

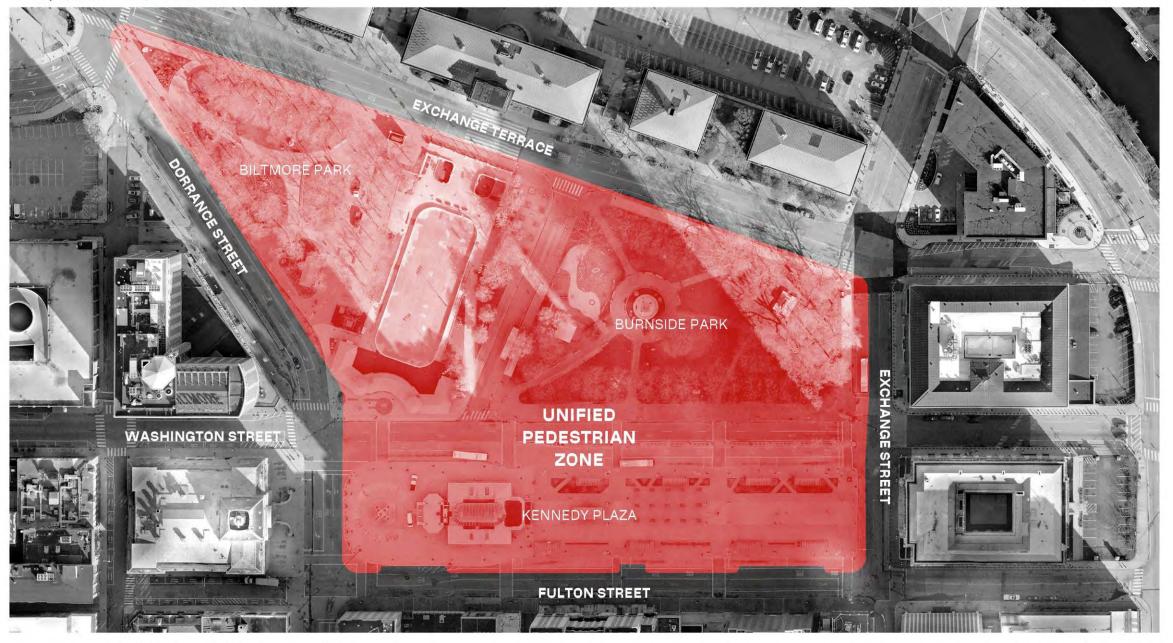


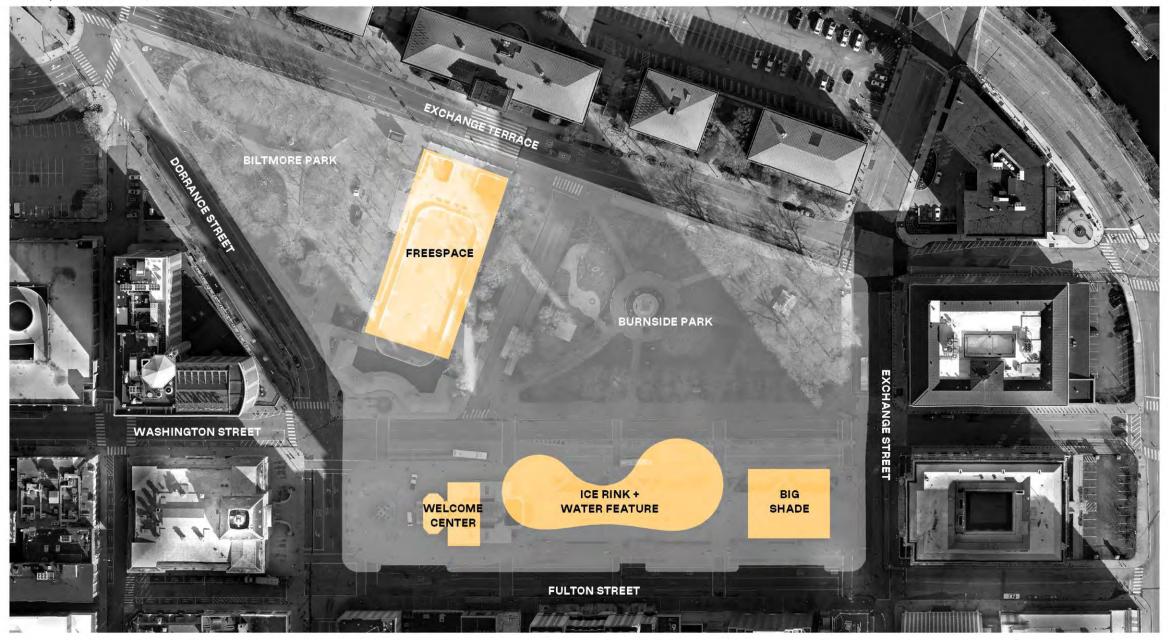


Providence City Grid

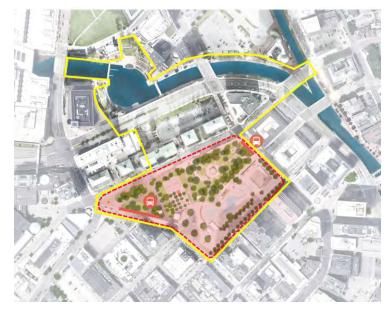








Three Big Moves



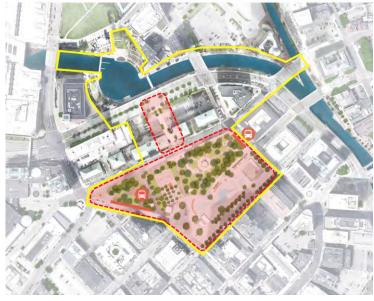
Change Sequence 1

Closing of Washington Street and East Approach.

Reclaiming of public spaces, creation of a large pedestrian zone unifying Kennedy Plaza with Burnside and Biltmore Parks.

Bus stops are relocated along Exchange Street and Dorrance Street.

The rink is relocated to the center of Kennedy Plaza.

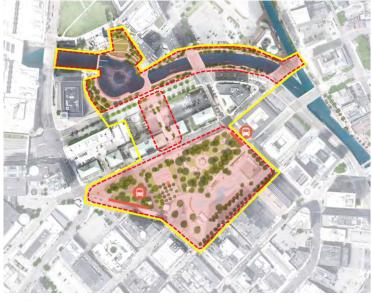


Change Sequence 2

Closing of the Exchange Terrace Tunnel.

Construction of an elevated pedestrian bridge connecting Exchange Terrace with Memorial Boulevard, crossing over Marsella's Property.

Modification to Memorial Boulevard to accommodate bike lanes and landing platforms.



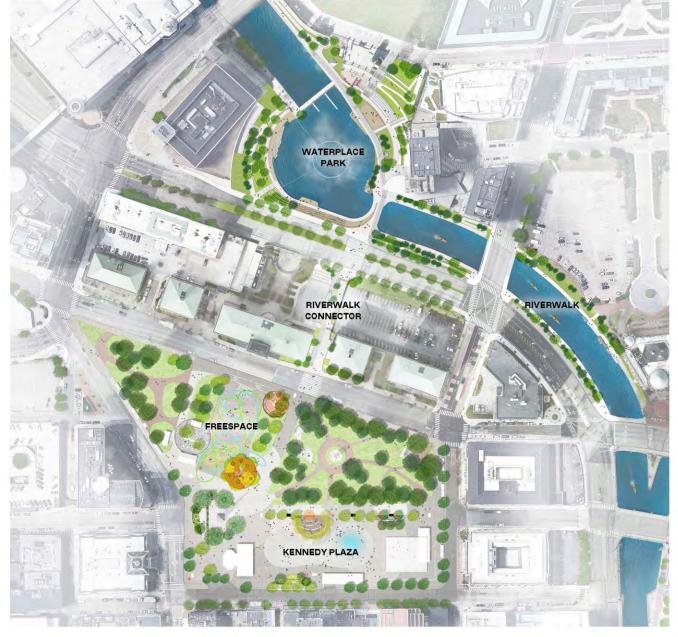
<u>Change Sequence 3</u>

Modernization of the Riverwalks.

New pathways raised above the existing ones to address sea-level rise.

Existing Riverwalks used as planters.

New performance stage and site grading of the lawn audience area.



Updated Masterplan Islands: Allowing Difference

In order to unify the many parts of the site, as well as to address several pragmatic issues of the program, environmental performance and human comfort, the design team developed the programmatic "rooms" concept from the 10% submission into a series of shelter islands dotted across Greater Kennedy Plaza and Waterplace Basin.

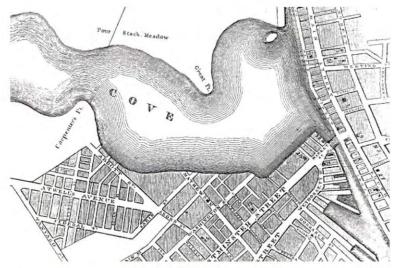
Inspired by the original Great Salt Cove in Providence, the islands together form an archipelago of relief, respite, and gathering. While Kennedy Plaza has been designed as a civic-scale, open-ended space, the islands reintroduce moments of rest and intimacy. The islands create points of shelter as you are crossing the site, while allowing for a porous flow across the entire plaza.

Each island has a different character, encouraging exploration and inviting play. Specific vegetation, materials, and seating define each island in a unique way. Their rich materiality creates moments of intensity and focus within the overall plaza.

These islands are places in which to take refuge and to watch the more open areas of the plaza, as well as allow people to interact with each other within more intimate settings. They create space for the minor, simultaneous moments that make up the everyday: they are where an elderly person might sit with their dog, or where someone might play chess, or where you might practice tricks with your friends, hold an outdoor class, or grab a bite to eat from a food truck while waiting for your bus.

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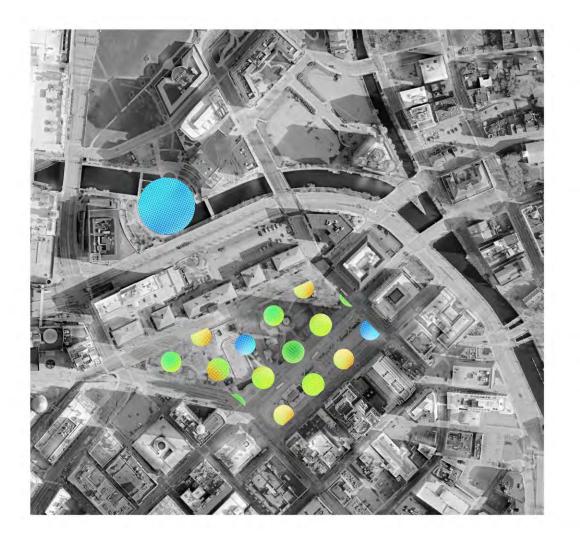
The islands are lush landscape environments that make the plaza softer and more welcoming, but they also play a critical role in the sustainability of the project. The shade and vegetation introduced by the islands reduce the urban heat island effect in the summer while screening and slowing winter winds, improving thermal comfort year around. At the same time, the islands are strategically placed to absorb stormwater, slowing and filtering runoff before it is ultimately discharged back into Narragansett Bay.









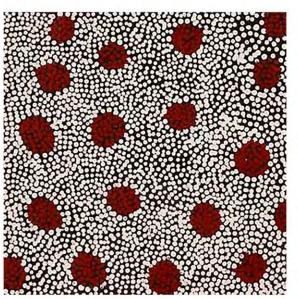








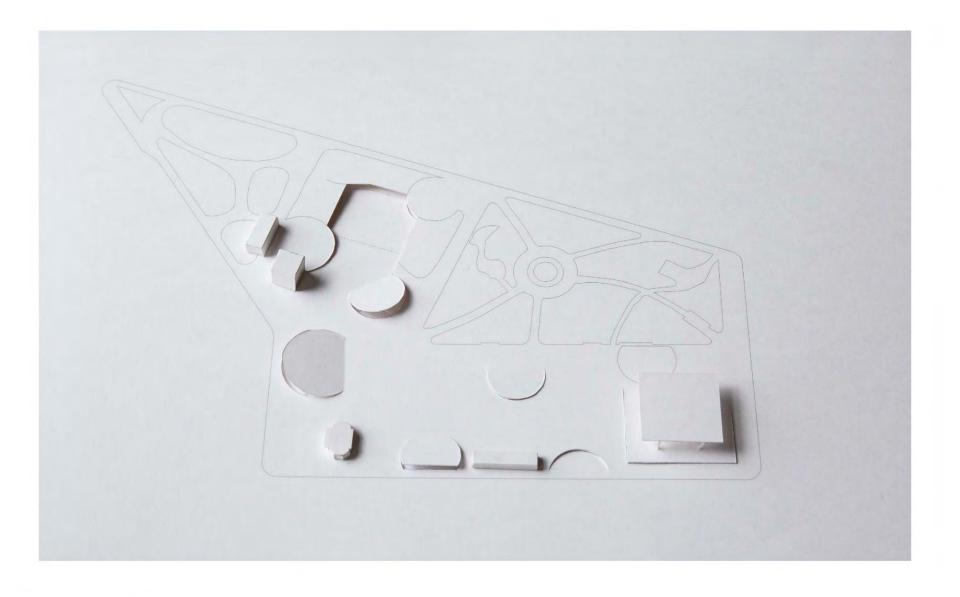


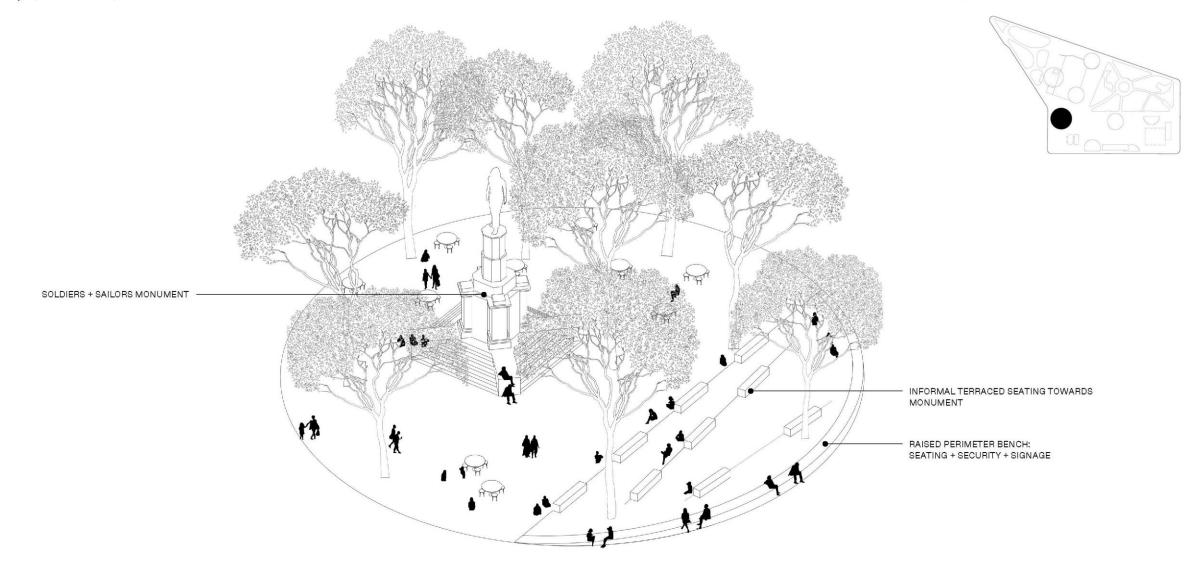


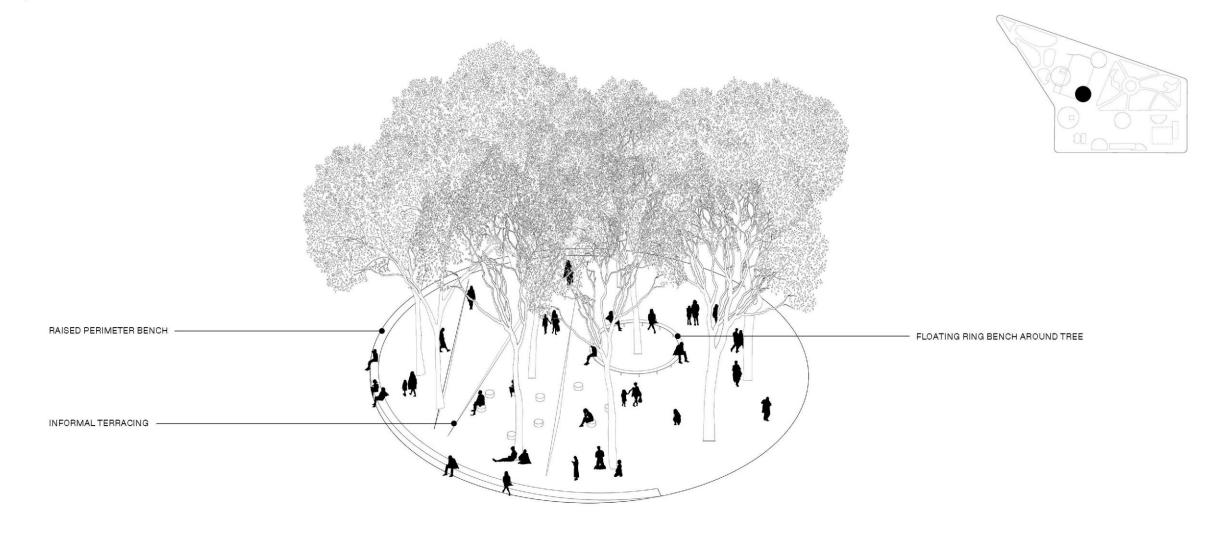


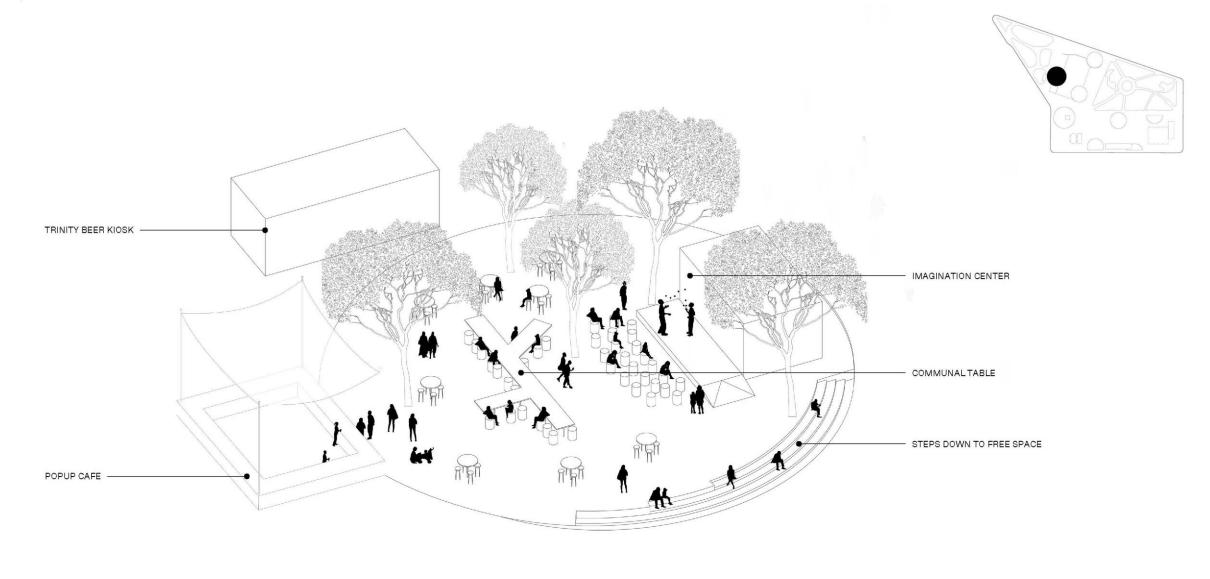
Formal Precedents

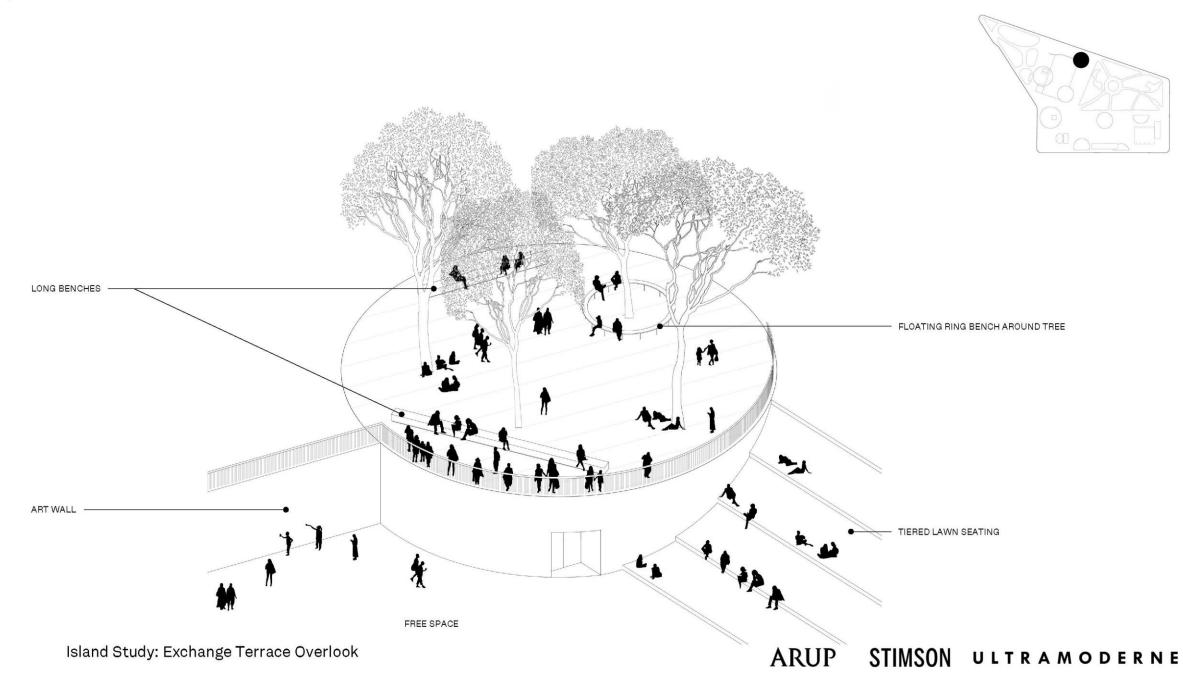


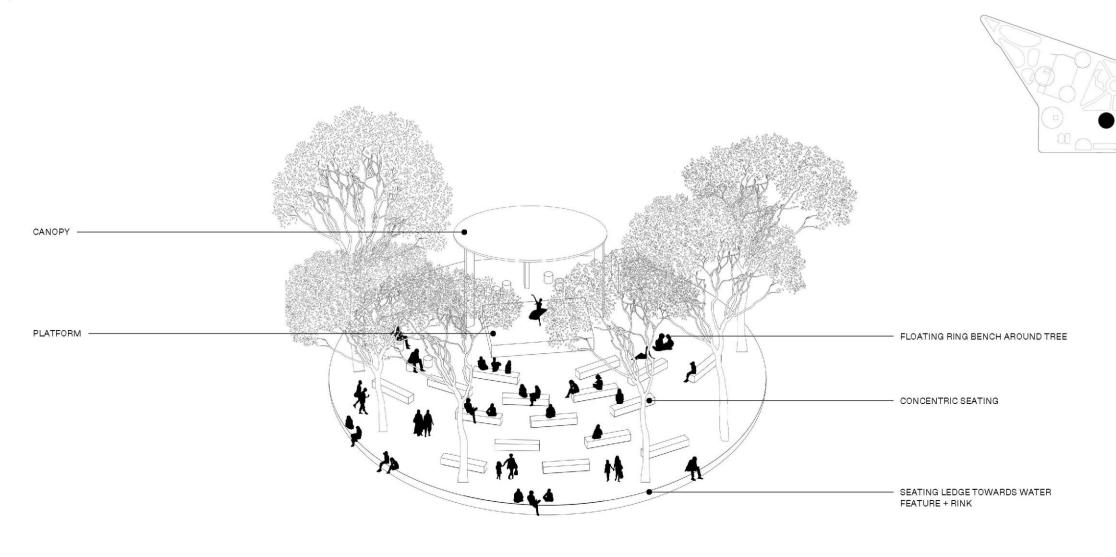


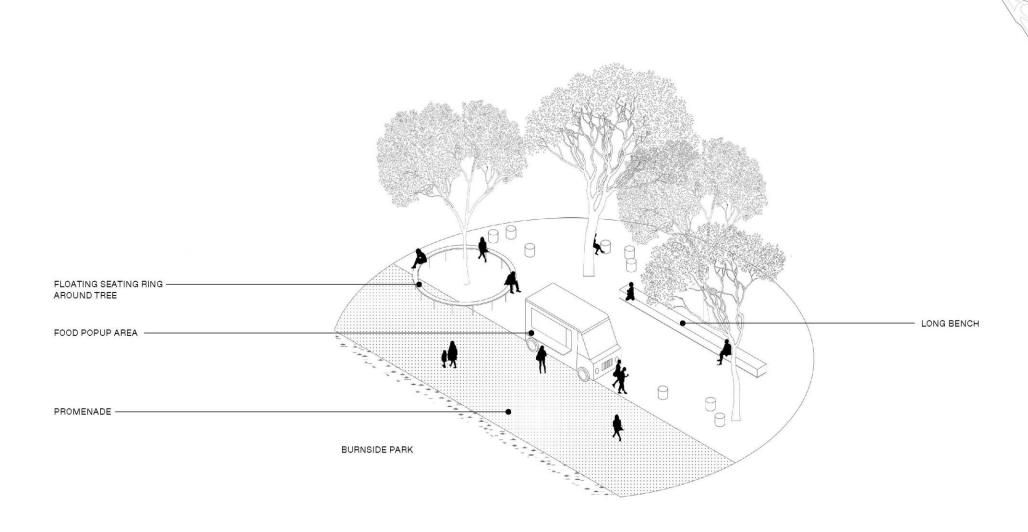


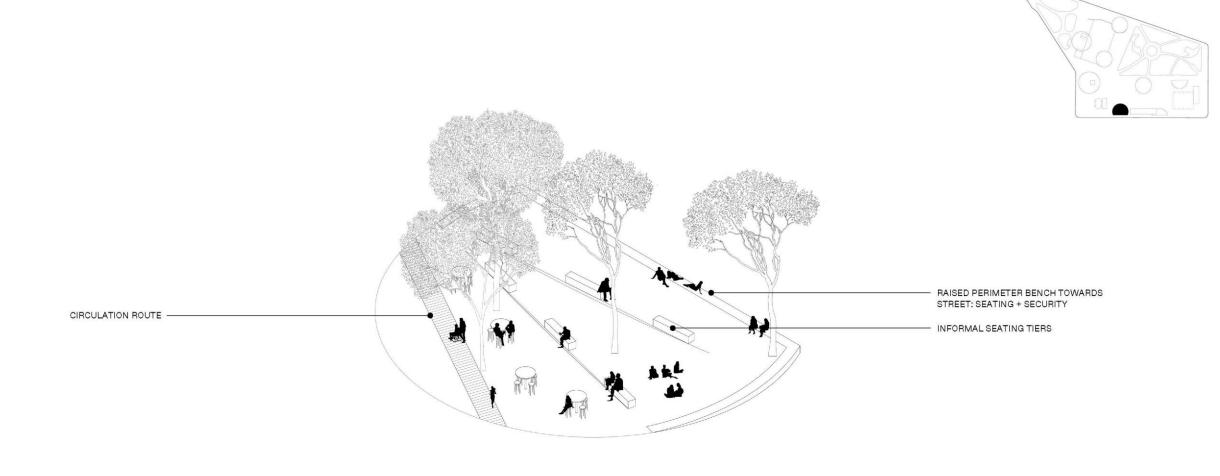


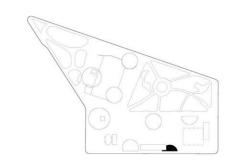


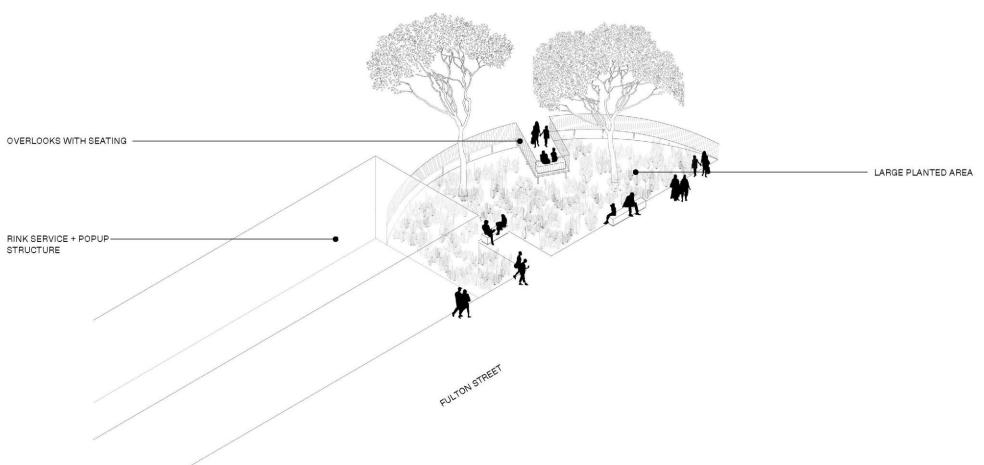


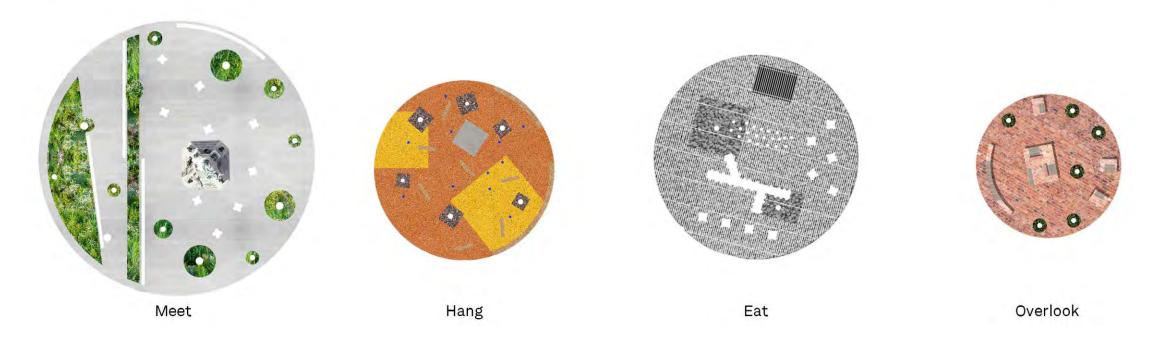




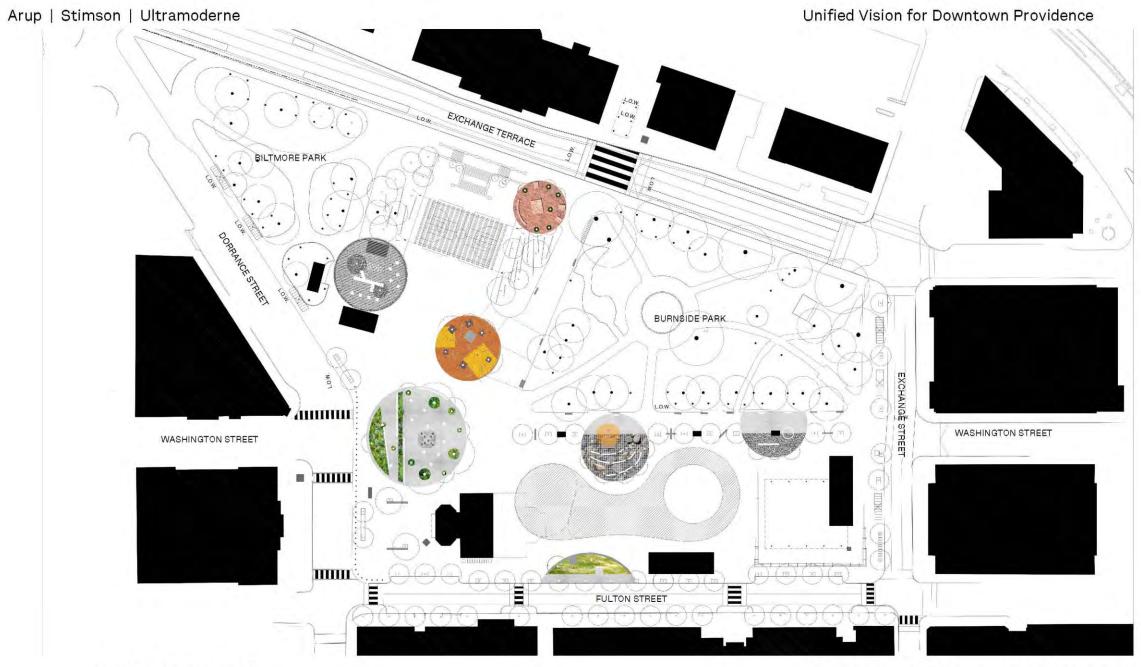










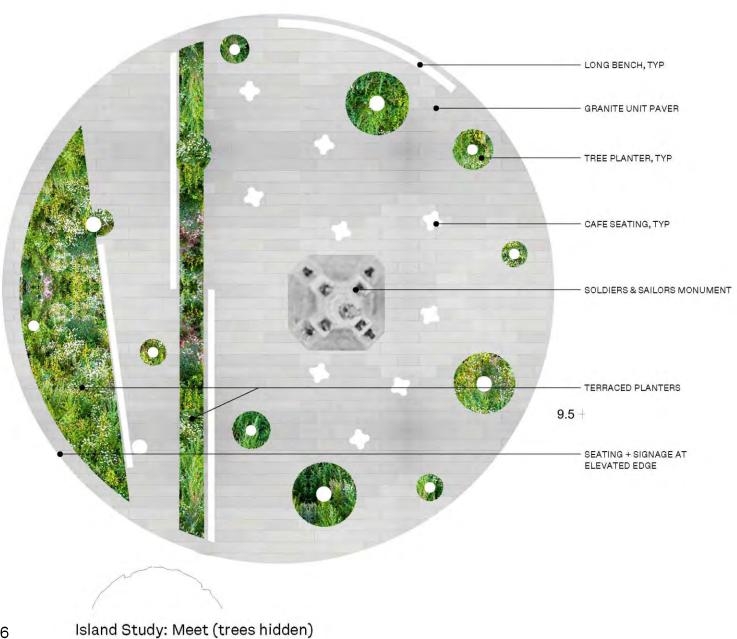






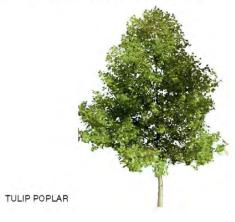


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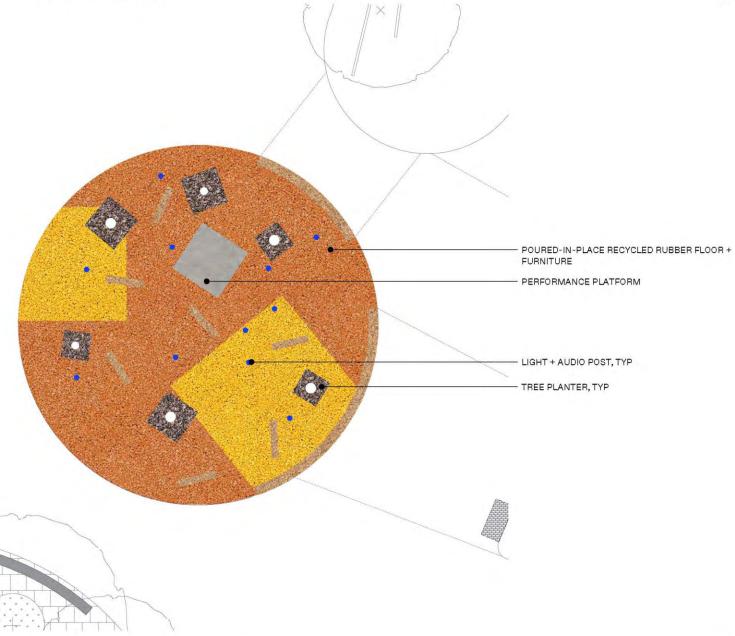


WITCH HAZEL



WHITE REDBUD

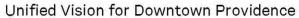


















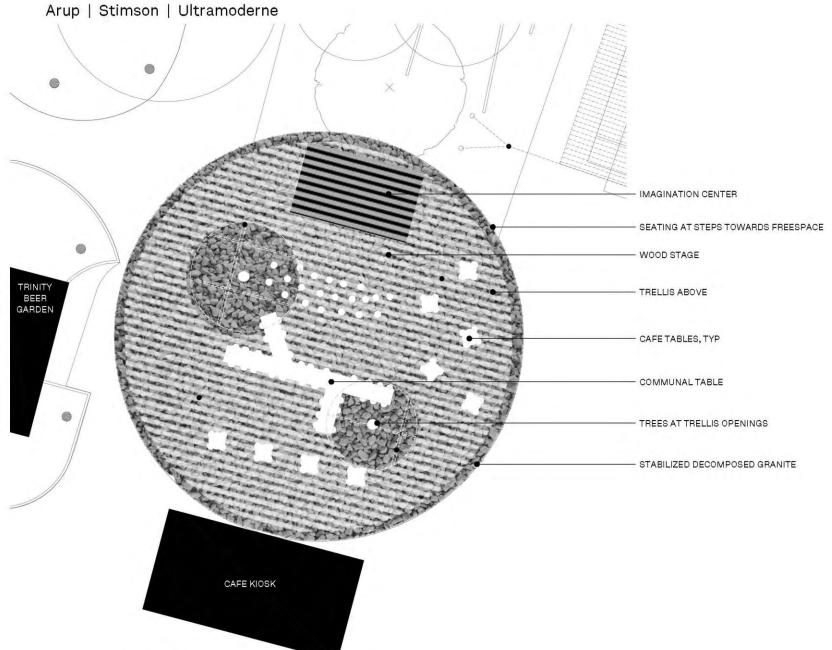
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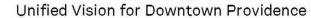
Unified Vision for Downtown Providence





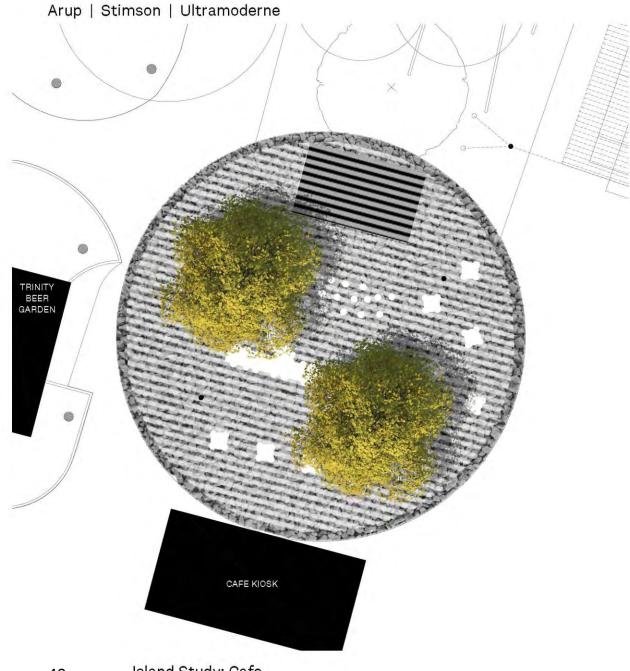














ARUP







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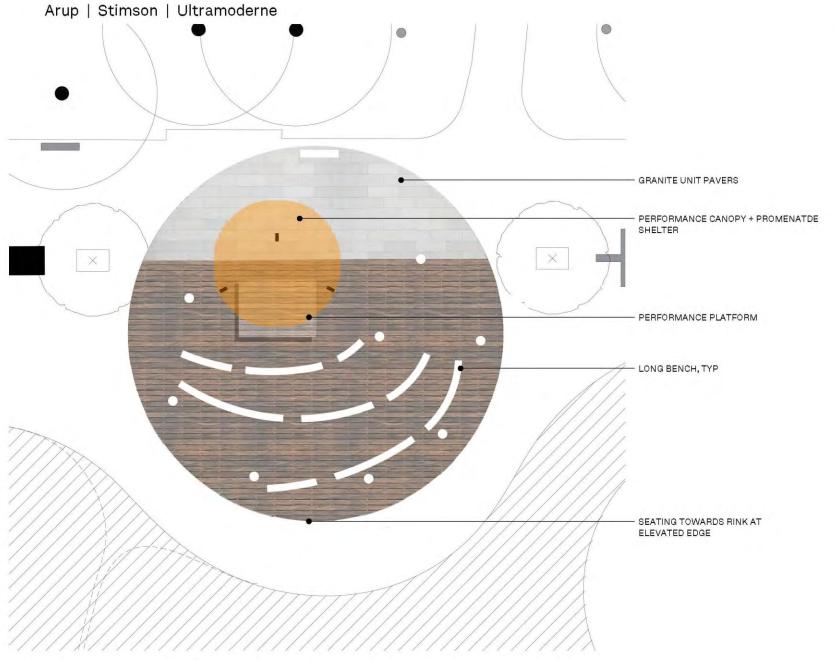




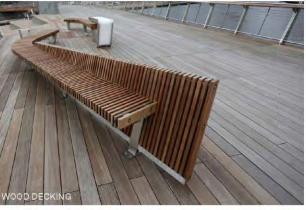
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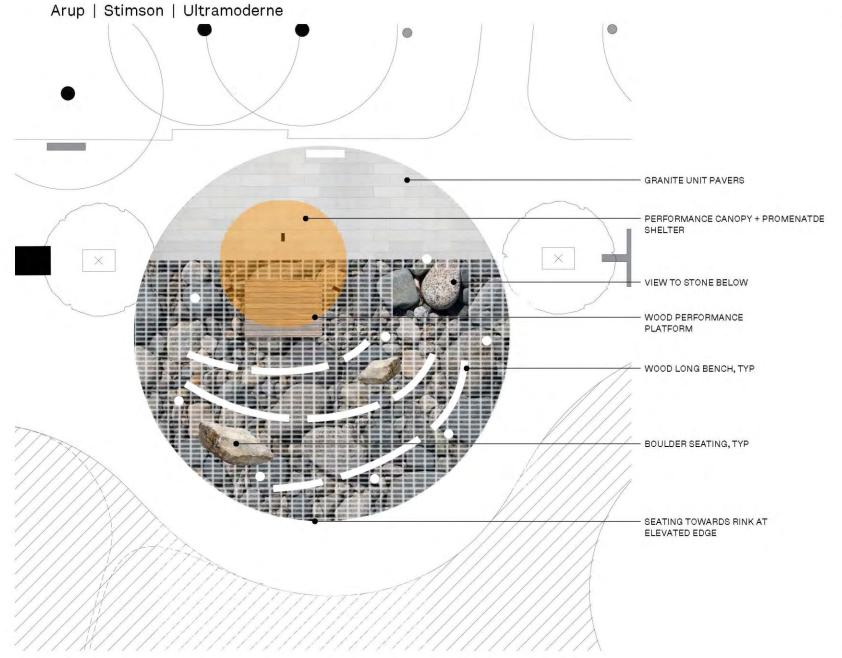




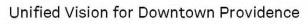


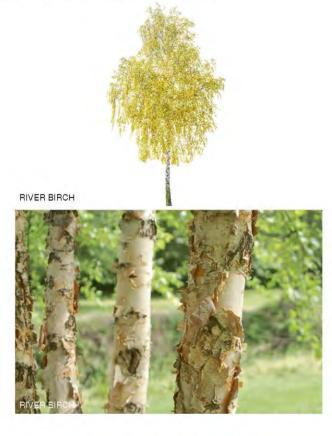














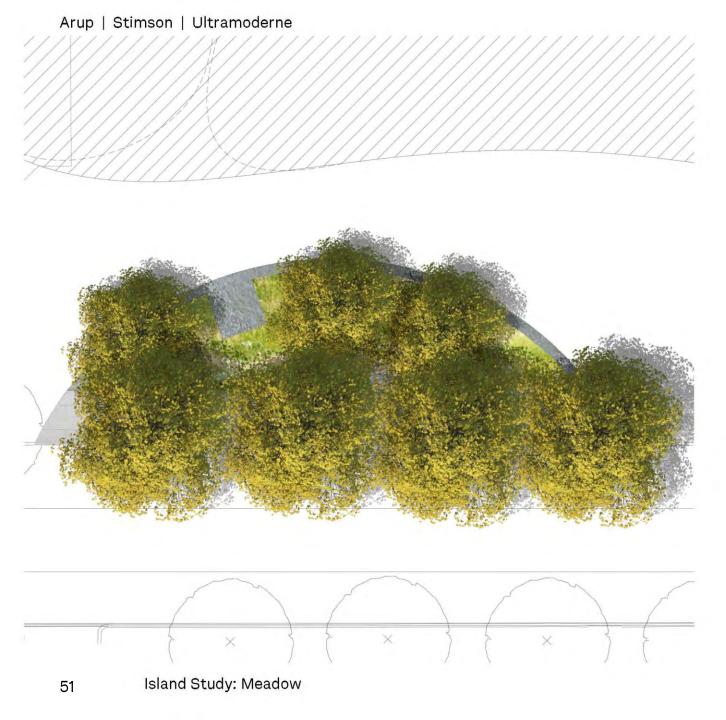
BLUEBERRY



Unified Vision for Downtown Providence



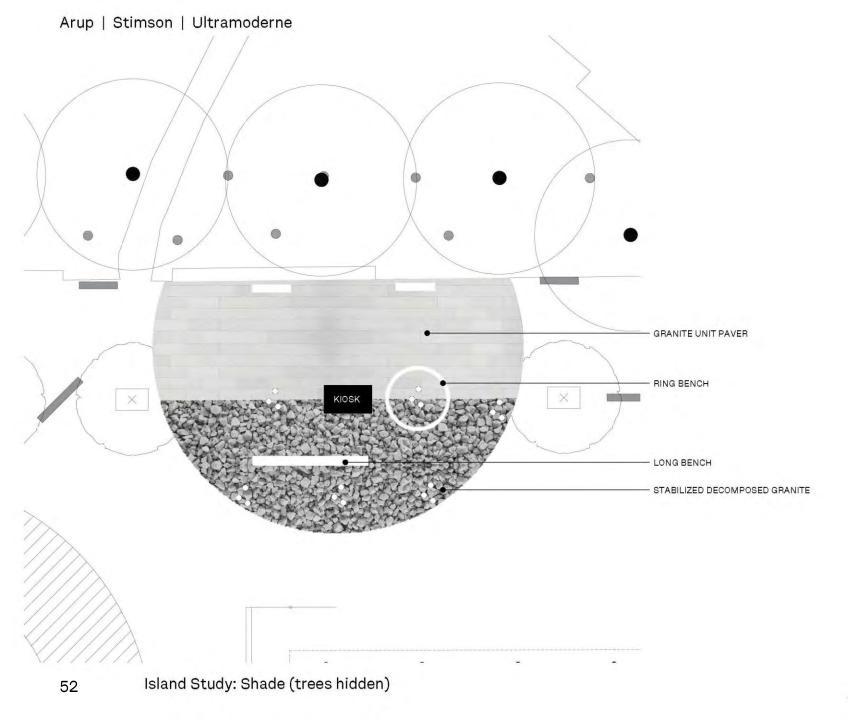




Unified Vision for Downtown Providence







Unified Vision for Downtown Providence











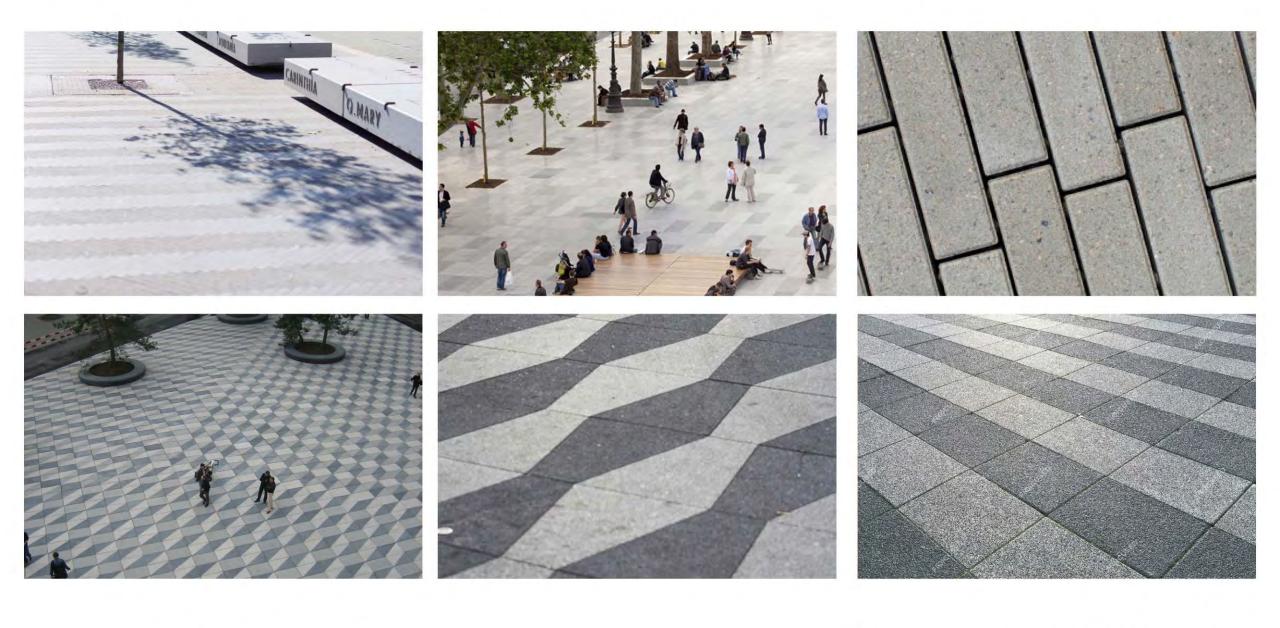


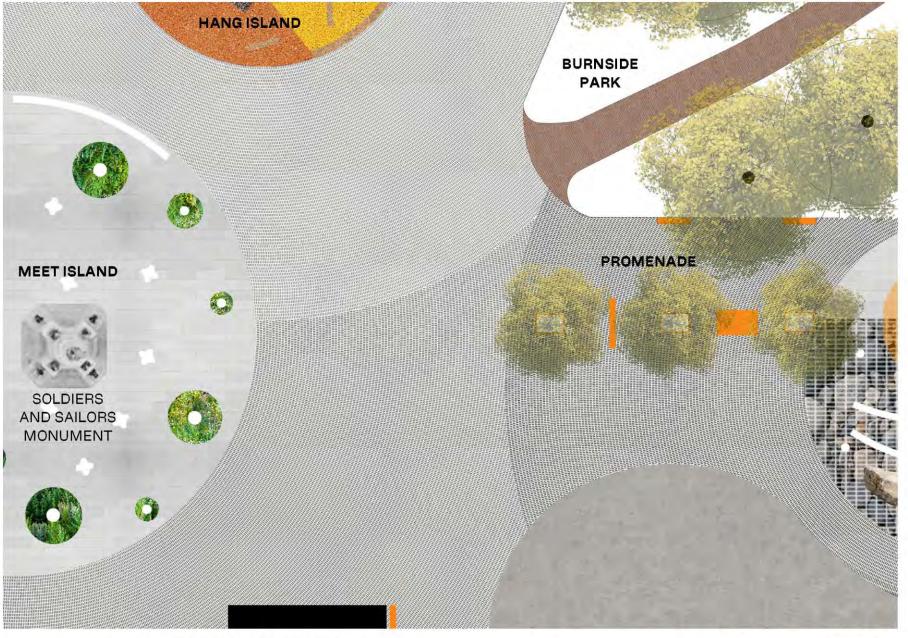






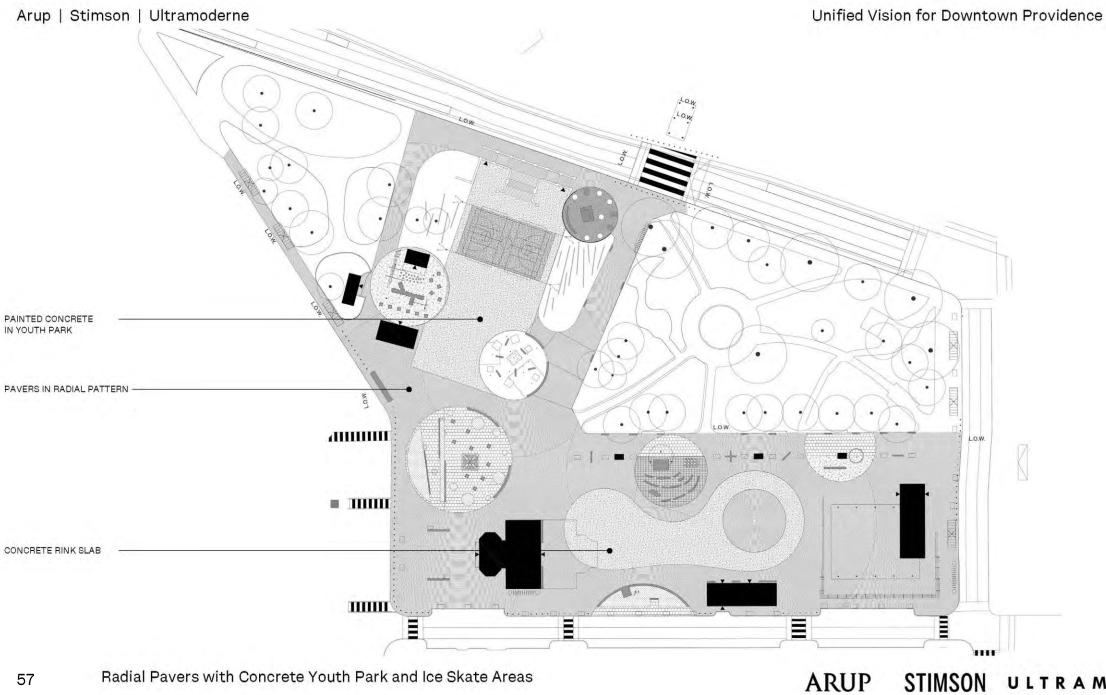










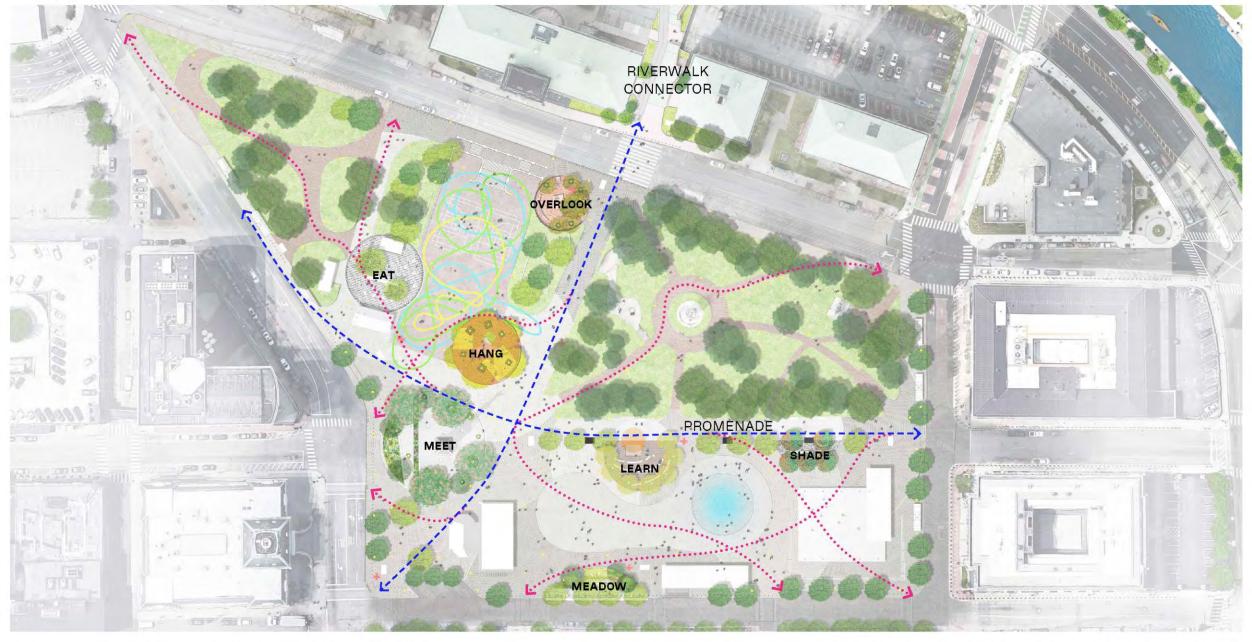








Site Amenities





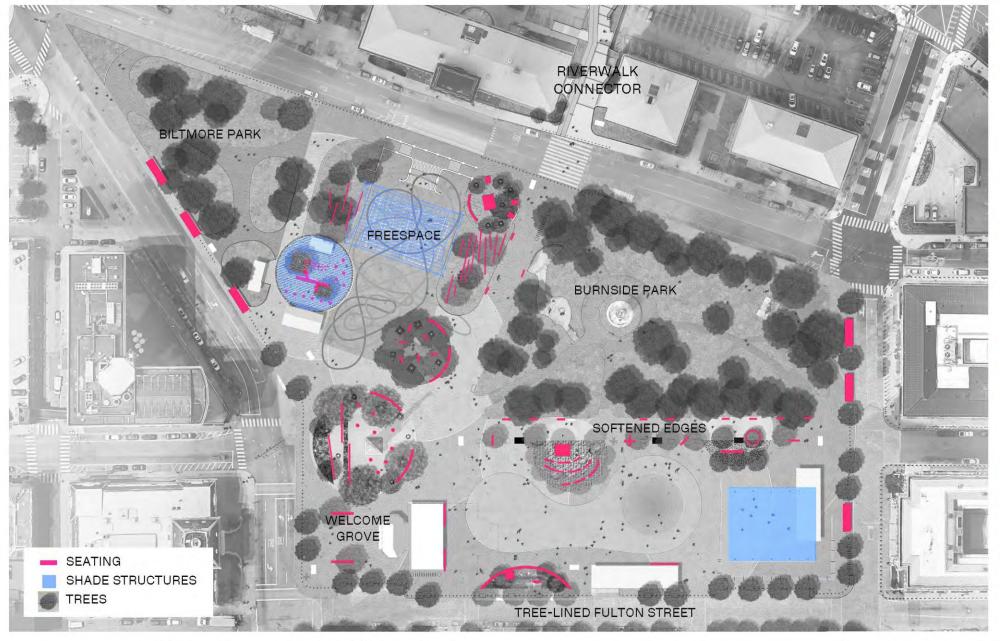
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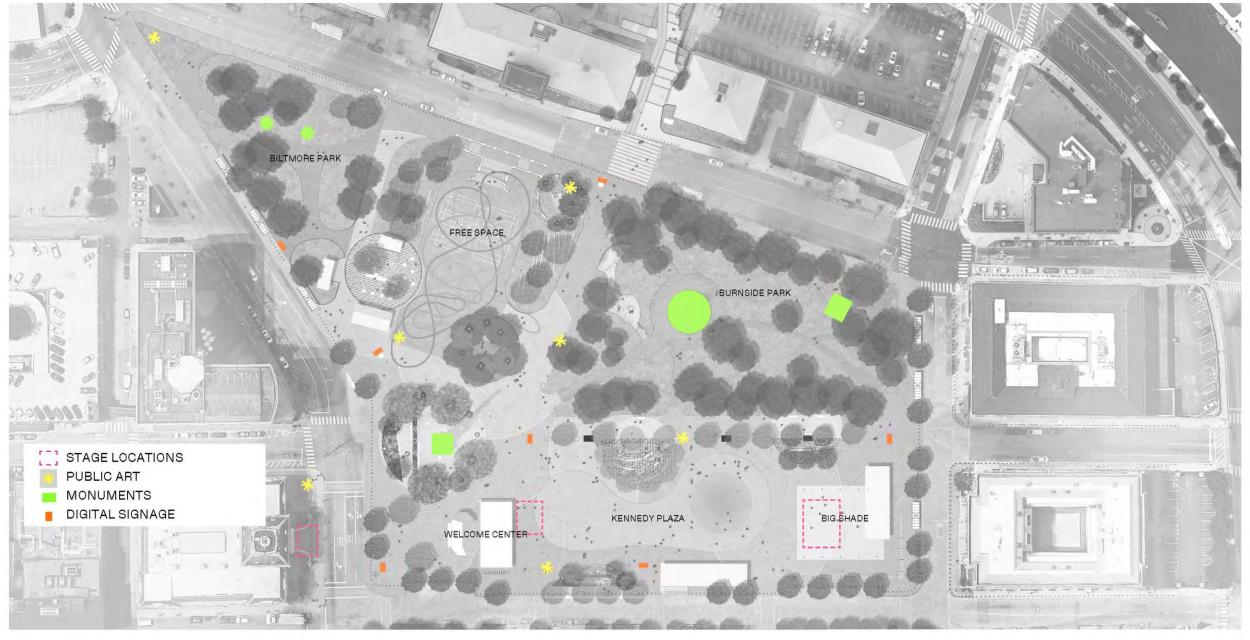












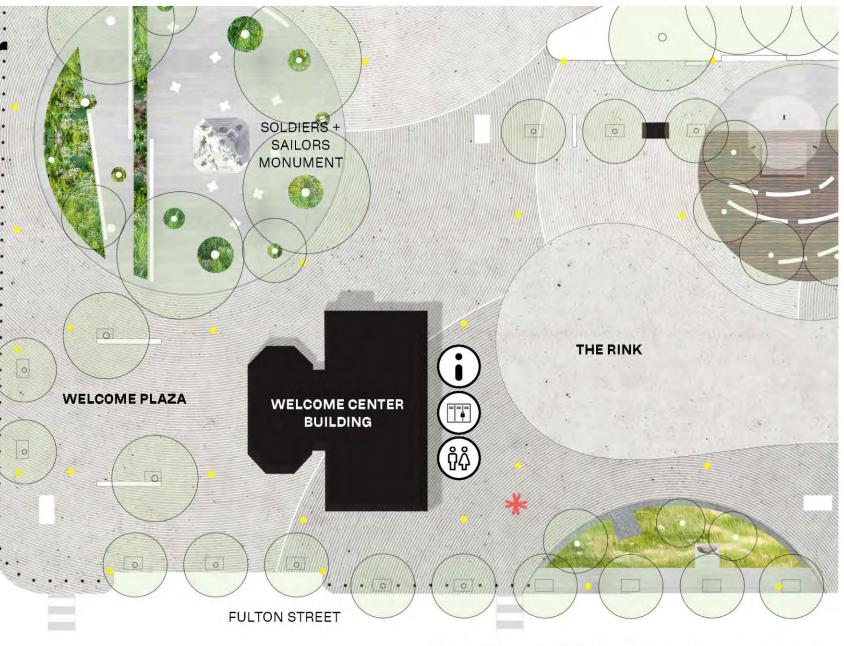
Buildings

Welcome Center

- Restore 1914 Trolley Shelter
- Information
- City Service Point
- Computer Access
- Bathrooms
- Lockers
- Park Staff Headquarters
- RIPTA Tickets

CITY HALL

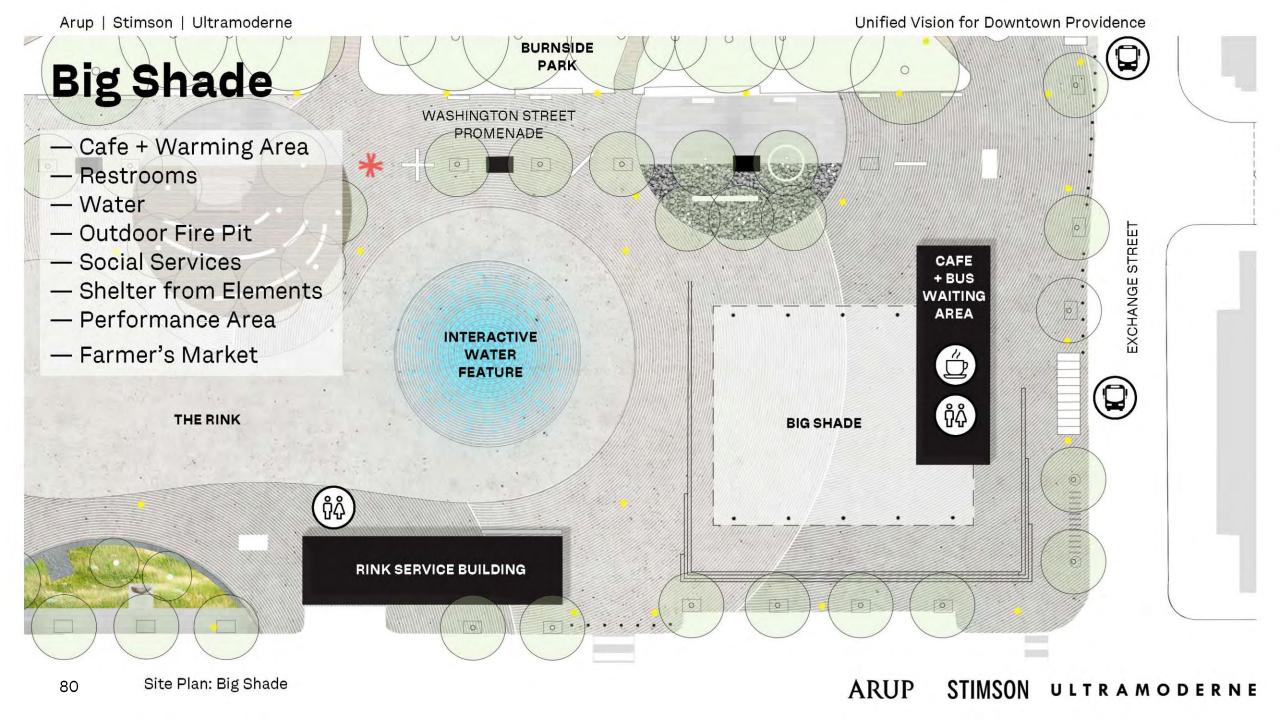




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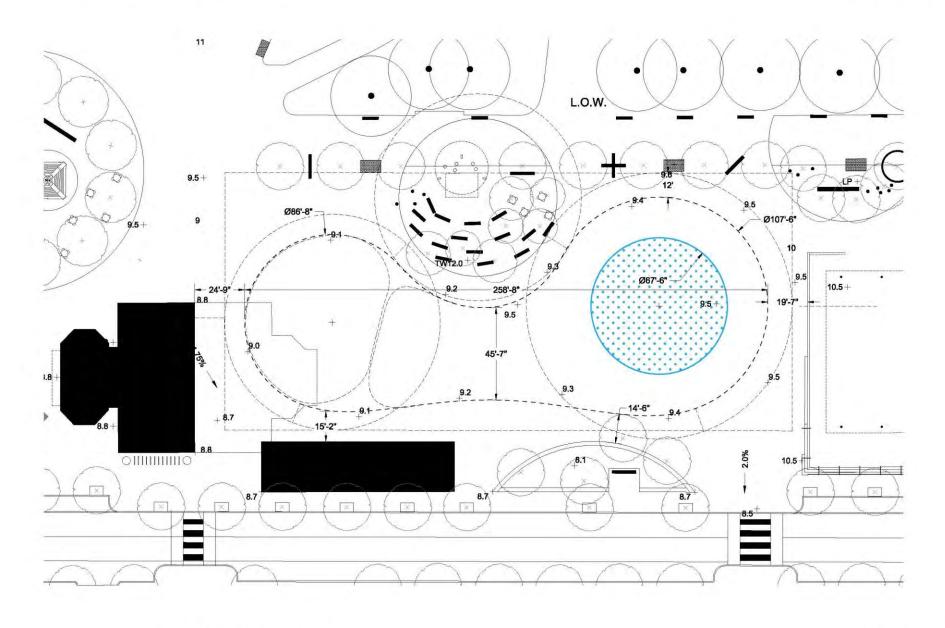












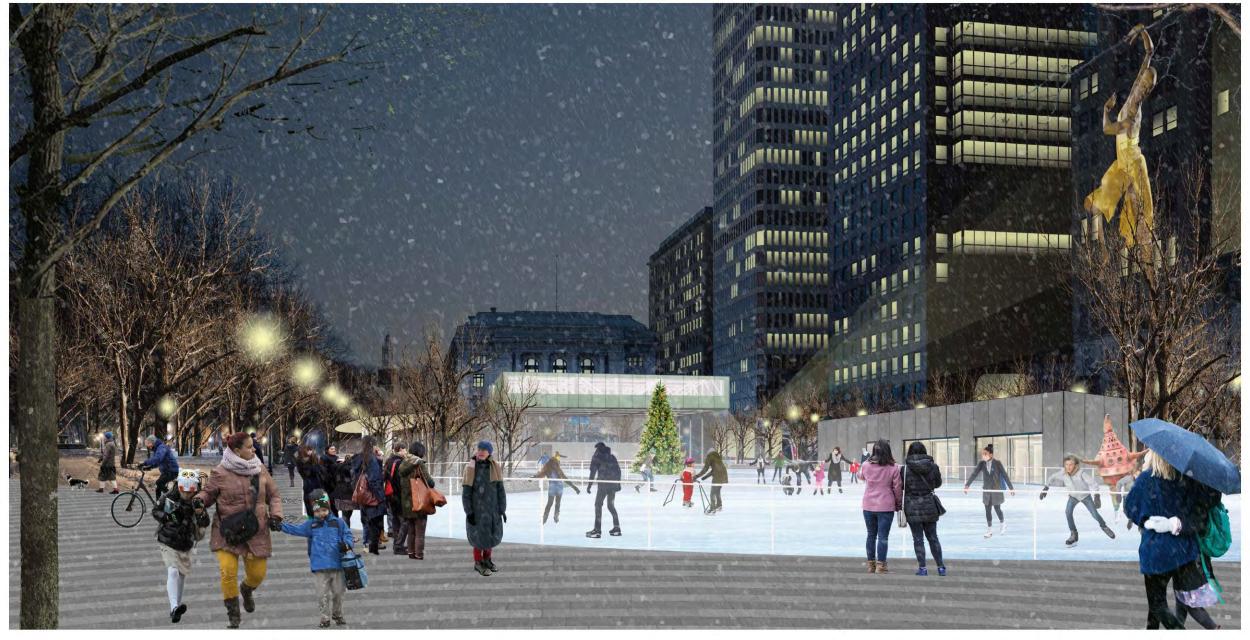
Rink Option: Single Island

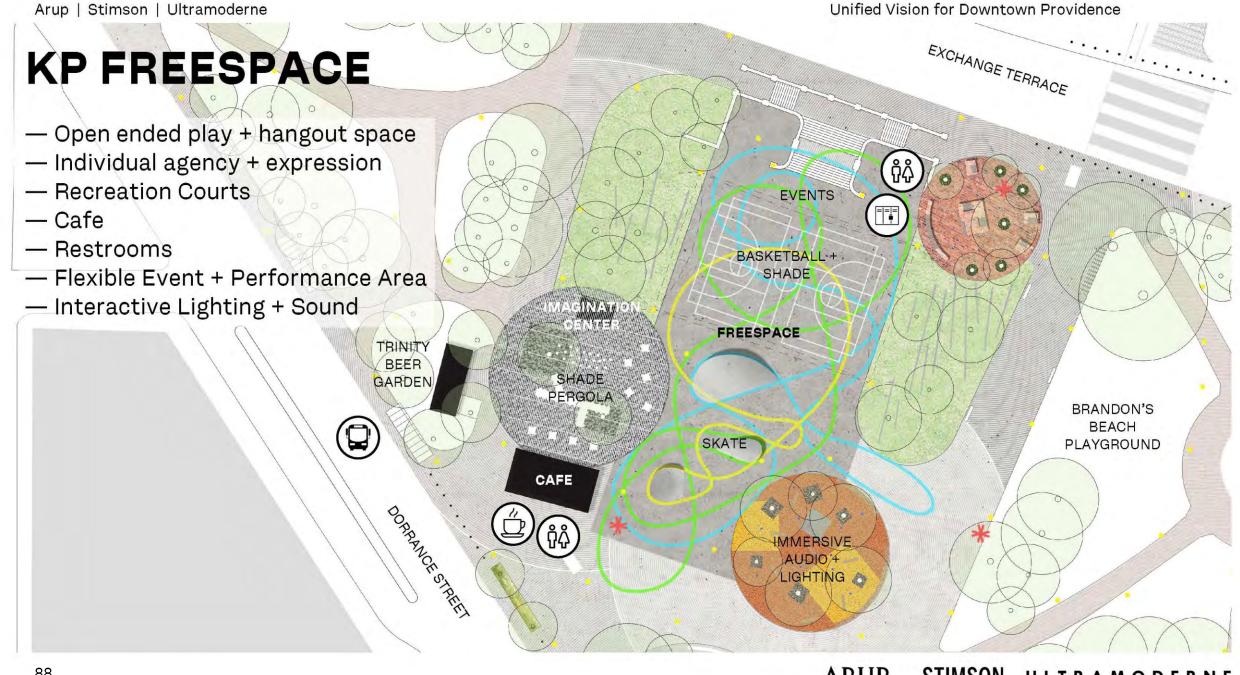
- Max skating area for skate trail configuration
- Larger area for bumper cars
- Single water feature area

Area: 15,653 SF (+16%) Perimeter: 661' (+36%)





























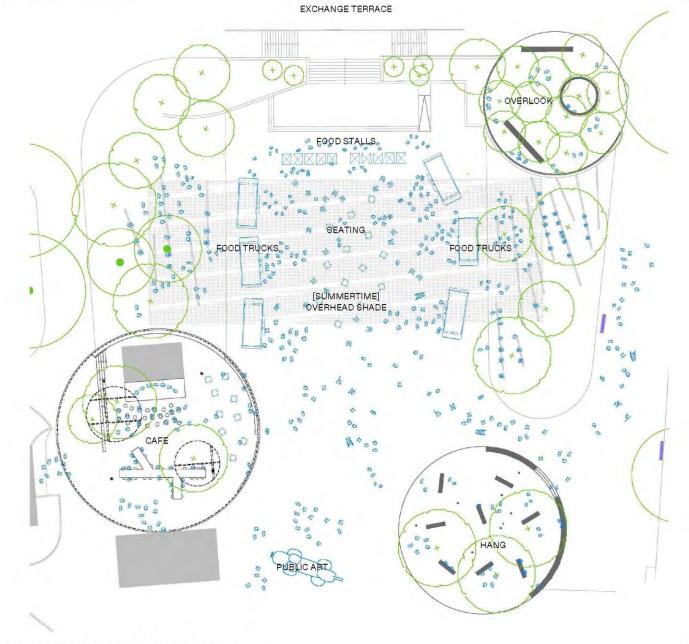


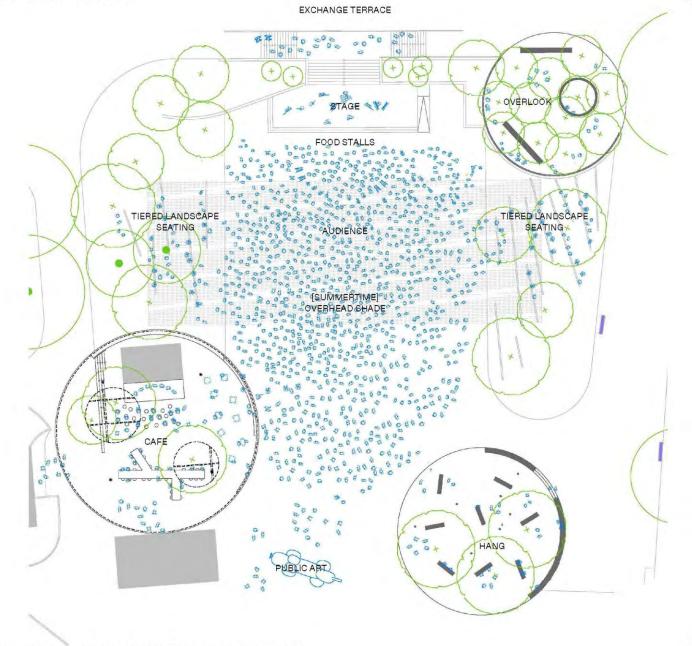


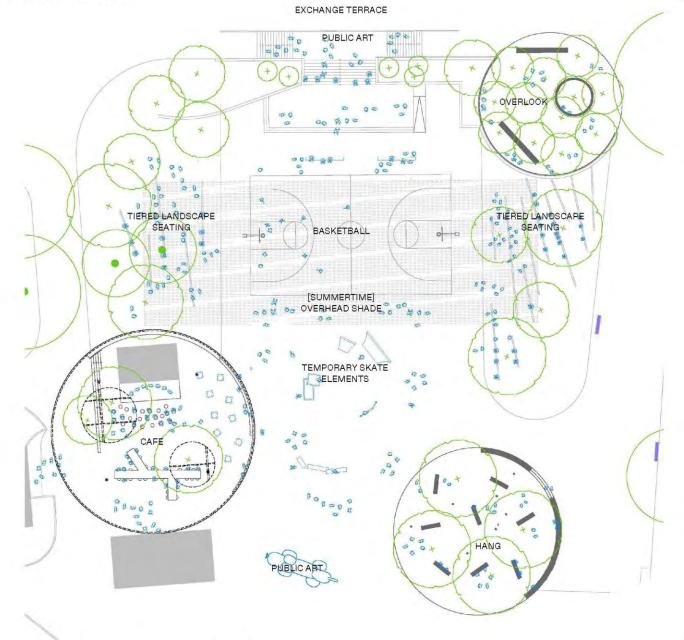


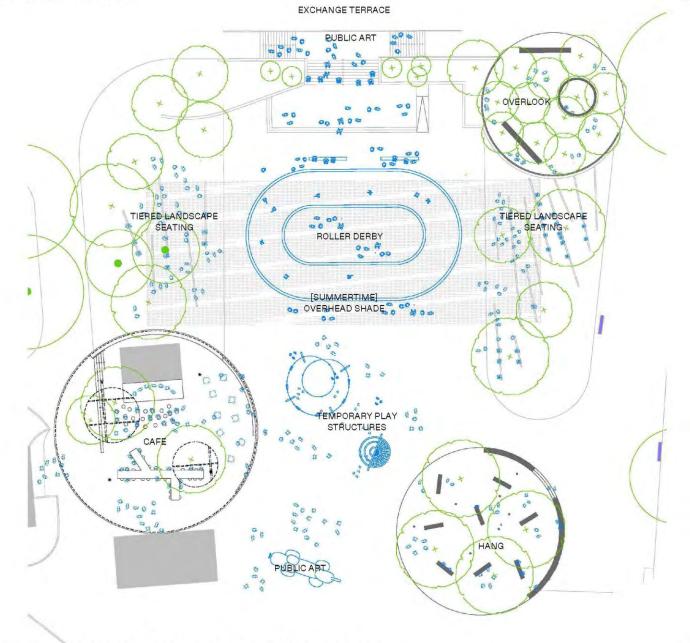
Free Space Use Scenarios

STIMSON ULTRAMODERNE



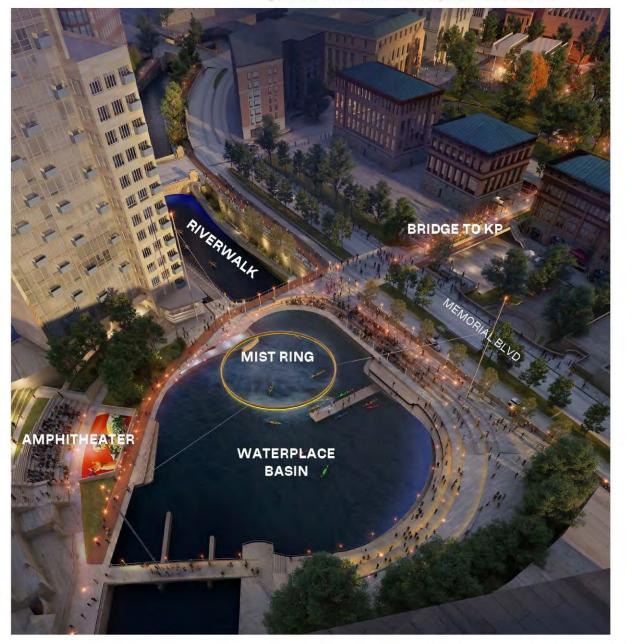






WATERPLACE PARK

- ADA + Bicycle Access
- New Climate-Adaptive Riverwalk Design
- New Vegetation & Seating Throughout
- Improved Amphitheater Design
- Mist-Ring Water Feature

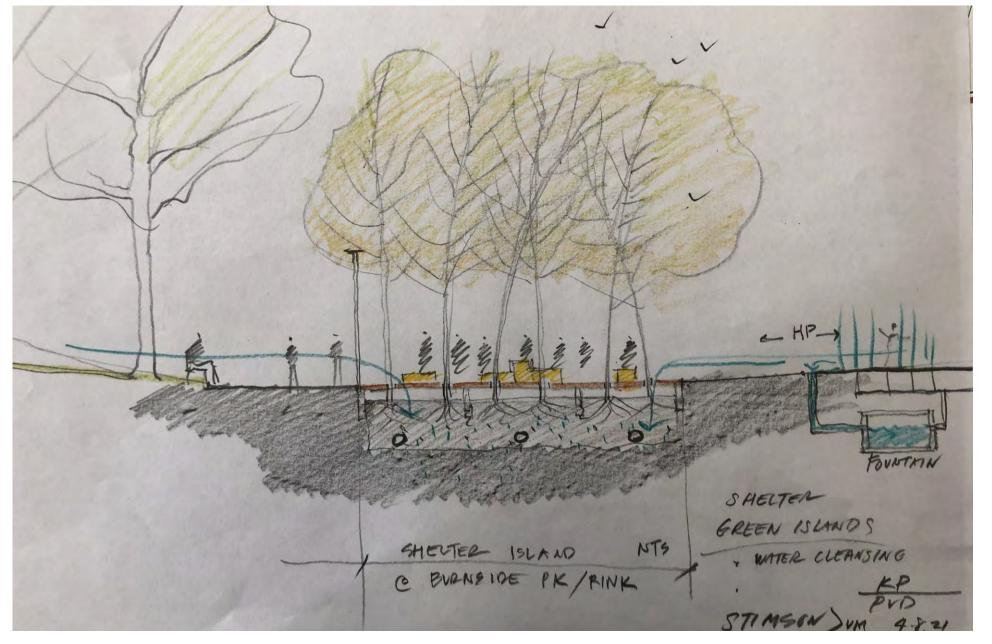


Planting Concept



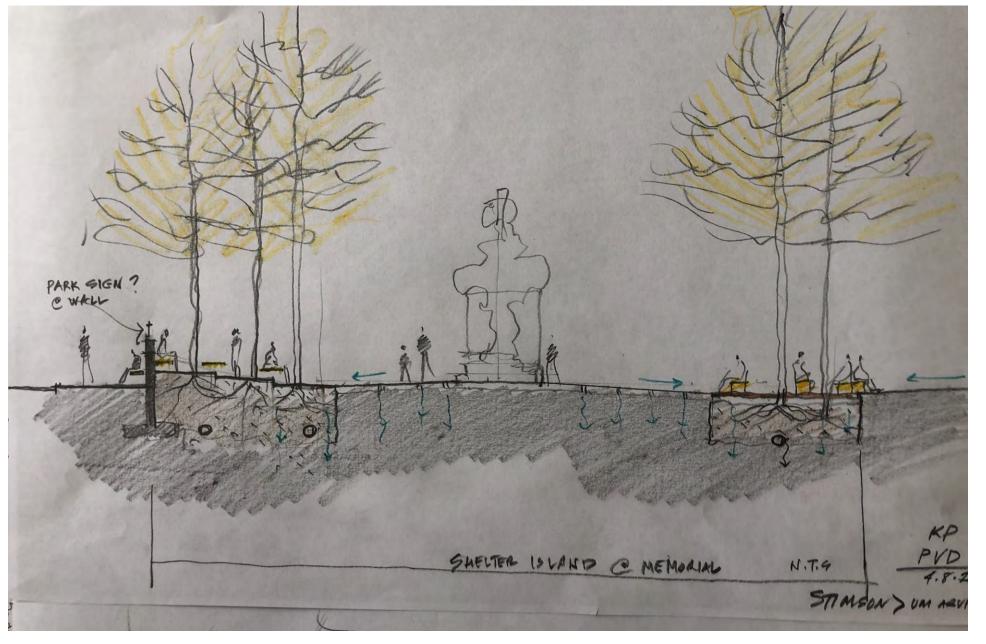








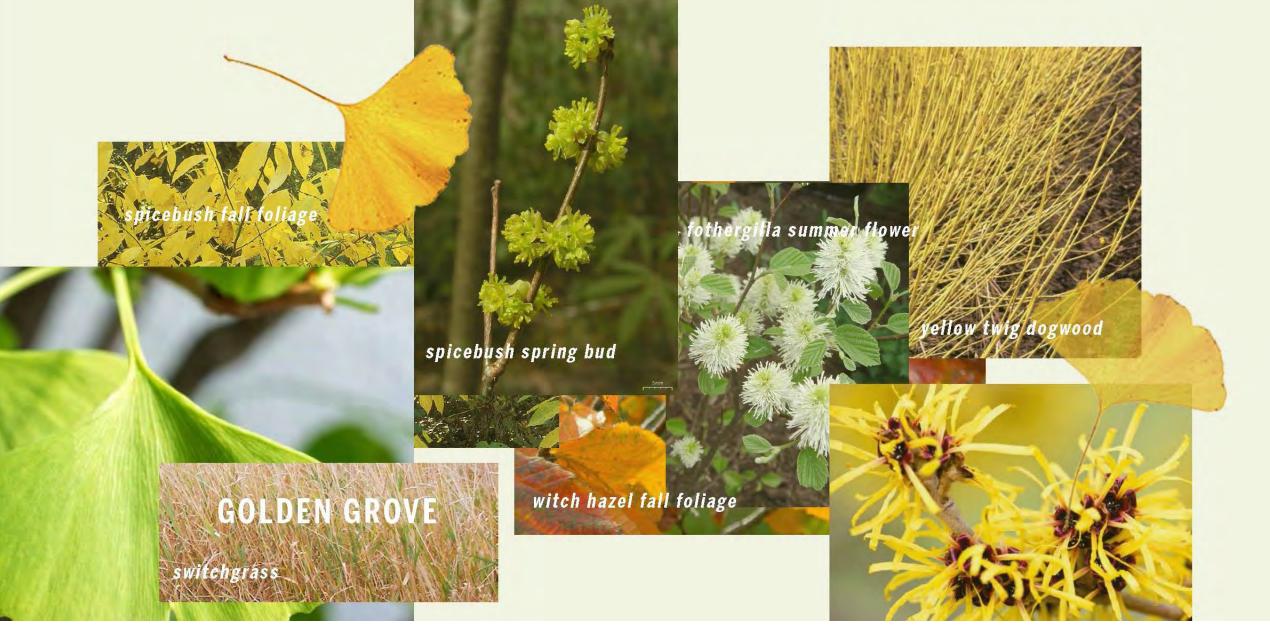




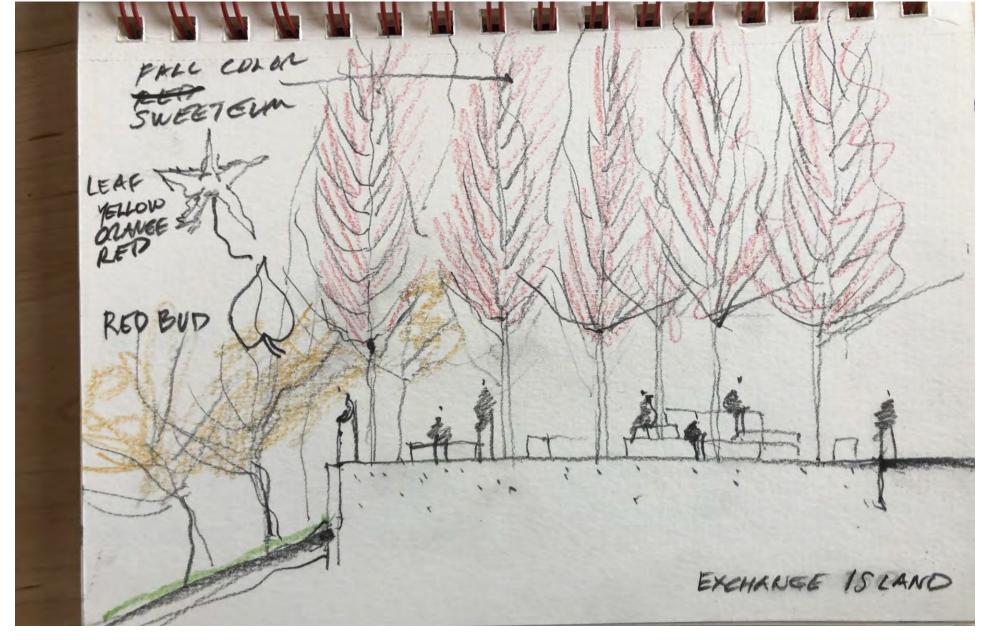














Sustainability & Resiliency Strategy

Providence Sustainability & Resilience Overview

The City of Providence is charting a clear course towards an equitable, low-carbon, and climate resilient future for its residents, as outlined in its Climate Justice Plan. The Unified Vision for Downtown Providence project has both the opportunity and the responsibility to integrate the City's larger racial justice, sustainability and climate change mitigation, and resilience goals into the design and construction of this comprehensive transformation of its downtown.

As such, the sustainability and resilience strategy for the project is grounded in the City's existing sustainability and resilience goals and based on publicly-available data for future climate projections to ensure the design of downtown is future-fit to support the residents of Providence. The following slides detail the overarching sustainability and resilience strategy for the project, including both existing design measures included in the current 30% design strategy and recommendations for future consideration as the design continues to progress through design and into construction and operations.

Key Data Sources

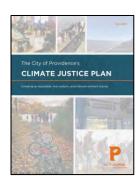
The key data sources used to understand the existing conditions for the site and to inform the sustainability and resilience strategy include the following:

- Providence Climate Justice Plan
- Sustainable Providence Plan
- Providence 2019 Multi-Hazard Mitigation Plan
- Coastal Resource Management Council (CRMC)
 STORMTOOLS
- Resilient Rhody
- Trust for Public Land (TPL) Climate-Smart Cities
 Tool: Metro Providence
- RI CRMC Shoreline Change Special Area
 Management Plan (SAMP) Volume 1: Chapter 2
- Conversation with Leah Bamberger, Providence Director of Sustainability (12/3/2020)
- Conversation with Barnaby Evans, Executive Artistic Director, WaterFire (12/14/2020)

Sustainability and Carbon Reduction in Providence



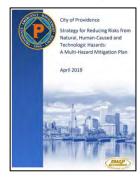
Providence's sustainability journey started with the **Sustainable Providence** plan, which presents a community vision focused on the following topics: waste; food; transportation; water; energy; and land use and development.



With the development of the **Climate Justice Plan**, Providence sets forth concrete carbon-reduction targets in the buildings and transportation sectors while promoting clean energy sources and centering its climate and sustainability work around frontline communities. Providence's **VISION** for a low-carbon future is one where,

- your race or zip code no longer determines your health or economic outcomes.
- decisions are made collectively to allow those who are most impacted to have the greatest say.
- land stewardship is valued over ownership.
- access to clean water and land is not just a luxury for the wealthy, but a fundamental human right.

Climate Resilience in Providence



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Providence's ambitious sustainability and carbon neutrality goals are grounded in the reality that climate change is happening now, and any robust sustainability and climate change strategy must recognize how climate change is already impacting the City and its residents. Observed and future climate impacts in Providence are expected to include:

- Rising sea levels are already causing floods in the city and sea levels are expected to rise +9.6' by 2100
- Rhode Island summers are expected to get 9.1 degrees hotter by 2100
- High heat danger days (above 105 degrees) are likely to increase to at least 12 days by 2050
- RI has seen a steady increase in extreme precipitation

Coastal Flooding and Sea Level Rise: Design Considerations

The Rhode Island Coastal Resources Management Council (RI CRMC) recommends the use of the following sea level rise projections for planning and design throughout the State of Rhode Island.

Table 2. Sea level rise projections for Rhode Island

	2030	2050	2080	2100
NOAA 2017 projections	1.67 feet	3.25 feet	6.69 feet	9.6 feet
based on "high curve"	(83% CI)	(83% CI)	(83% CI)	(83% CI)

For the purposes of this project, we have assumed that the Fox Point Hurricane Barrier will protect against more severe events and/or the City will need to implement a comprehensive flood protection strategy for Downtown if the Hurricane Barrier cannot protect against more extreme events. Therefore, the flood protection strategy for this project focused on protecting against less severe, but potentially more frequent coastal flood events that could occur. The 10-year storm surge event in 2050 (using 3.25' of sea level rise as recommended by RI CRMC) was used as the basis of design for the PVD-UVD coastal flood protection strategy. The anticipated flooding associated with a 10-yr storm event in 2050 is shown on the map to the right.



Source: CRMC STORMTOOLS

Coastal Flooding and Sea Level Rise: Design Recommendations

Design Flood Elevation (DFE) Objectives:

- Minimum DFE (9.0' NAVD-88): Provide a level of flood protection greater than the 2050 nuisance tidal flooding (the twice-monthly King Tide), and comparable to the current level of protection of adjacent downtown neighborhoods.
- Recommended DFE (13.5' NAVD-88): Provide a level of flood protection greater than the 2050 nuisance storm surge flood event (2050 10-Year Storm Surge Event).

General Flood Resiliency Considerations:

- Equipment: Keep all equipment prone to flood damage above Recommended DFE or incorporate dry floodproofing measures.
- Materials: Use resilient and salt-tolerant materials below the Recommended DFE.
- Design all structures to resist buoyancy for water levels up to the Recommended DFE.

Memorial Boulevard Pedestrian Tunnel Flood Barrier:

- Coordinate future design development of the flood barrier with the City and stakeholders to identify an acceptable flood barrier system. Consideration should be given to the following types of barriers:
 - Deployable Flood Barrier.
 - Permanent Flood Wall with Flood Door, for access to the tunnel space
- Design storm drainage on the 'dry-side' of the flood barrier to accommodate future extreme rainfall.
- The flood barrier will disconnect a portion of the FEMA flood plain from the Woonasquatucket River. Compensatory storage to compensate for this floodplain volume is proposed and should be further coordinated with regulatory agencies as required to satisfy FEMA requirements. Numerical river flood modeling should be provided to confirm the sizing and design of the compensatory storage.



Deployable Flood Barrier



Permanent Flood Wall with Flood Door

Coastal Flooding and Sea Level Rise: Riverwalk Phasing Plan

As seas rise due to climate change, the Fox Point Hurricane Barrier (FPHB) gate closures are expected to exceed 50 times per year by 2050, and twice daily by 2100. As the FPHB is not designed for this frequency of closures, we anticipate closing the gates for Riverwalk access and events will become more expensive and eventually impractical.

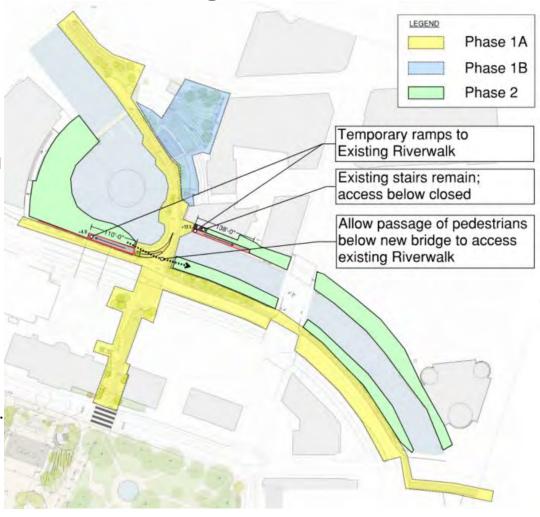
As the current Riverwalk elevations are generally below the FEMA Base Flood Elevation (BFE), large-scale filling to elevate the Riverwalk or the addition of flood walls along the waterfront to protect the Riverwalk from flooding are not recommended due to challenges associated with providing the necessary FEMA compensatory flood storage volumes. The proposed design instead utilizes an incremental approach to elevating the Riverwalk through the use of platforms located above the FEMA BFE. Considerations for the phasing of these Riverwalk modifications are provided below.

Near-term:

- Incorporate components of the project to improve connections between the project area and adjacent neighborhoods identified in the Phase 1A areas on the Riverwalk Phasing Plan.
- Project components located in the Phase 1B areas may be constructed simultaneously or independently of the Phase 1A work.
- Provide temporary ramps from the Phase 1A areas to the existing Riverwalks as indicated on the Riverwalk Phasing Plan. Consider providing ramps designed to accommodate incremental raising of the proposed Riverwalk platforms located in the Phase 2 areas.
- Consider temporary pavement improvements to improve accessibility within the Phase 2 areas.

Mid-term:

As sea levels rise and the FPHB becomes increasingly stressed by frequent closings, install the
platforms and associated connecting infrastructure proposed in the Phase 2 areas. Consider
providing platforms and connecting infrastructure that can initially be installed with all
substantial components elevated just above the FEMA BFE (currently Elevation 5.3' NAVD-88),
and incrementally raised to elevation 9.0' as river levels rise.

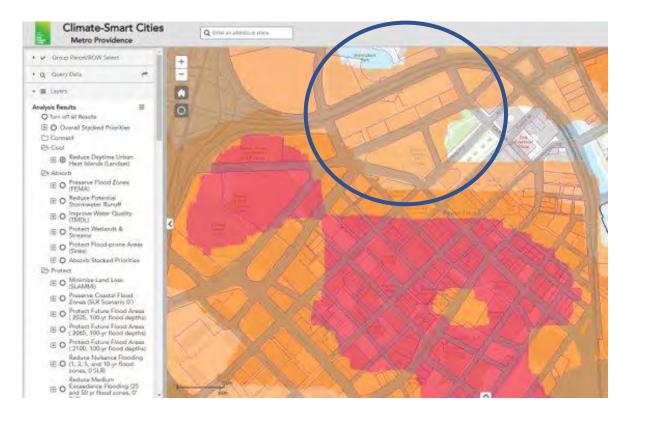


Riverwalk Phasing Plan

Extreme Heat and Precipitation Projections

Extreme Heat

The following map shows the urban heat island risk at the project site, according to the Trust for Public Land's Climate-Smart Cities tool.



Precipitation

Climate projections indicate that rainfall throughout Rhode Island is likely to become more frequent and intense throughout the 21st century.

At this stage of the design, the project team has developed a civil and landscape strategy that focuses on increasing the permeability of the site through a reduction in impervious surfaces and use of on-site stormwater storage systems and green infrastructure practices. This allows for more runoff to be captured and managed before entering the stormwater system, thus improving the ability of the drainage systems serving the project area to accommodate more extreme precipitation-based flood events. Site drainage is currently designed based on existing code, but with the intent of reviewing the design criteria as the project progresses further in the design process.

As the stormwater management and drainage design evolves, consideration should be given to future rainfall projections and the potential for designing site drainage and green infrastructure to accommodate larger volumes of water.

Sustainability Framework: Connecting Project & City goals to SDGs

Due to the broad and comprehensive nature of the City of Providence's sustainability goals – encompassing racial justice and social equity, sustainability, carbon reduction, and climate resilience – the project team decided to frame the sustainability and resilience strategy for the Unified Vision project around the United Nations Sustainable Development Goals (UN SDGs). The UN SDGs are comprehensive, urgent call for action by all countries – developed and developing – in a global partnership. They recognize that ending poverty and other deprivations must go hand-in-hand with strategies that improve health and education, reduce inequality, and spur economic growth – all while tackling climate change and working to preserve our oceans and forests. The 17 Goals were adopted by all UN Member States in 2015, as part of the 2030 Agenda for Sustainable Development which set out a 15-year plan to achieve the Goals.

Using the UN SDGs as the foundation for the PVD-UVD strategy allows the project team to connect the City's existing goals to a comprehensive and holistic approach to sustainable development, as detailed in the following slides.



































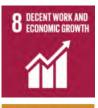


Sustainability Framework: Connecting Project & City goals to SDGs





13 CLIMATE ACTION













Sustainable Providence

Energy

Transportation

Land Use & Development

Zero Waste

Water

Food

Climate Justice Plan

Clean Energy

Transportation

Lead by Example

Local and Regenerative Economy

Community Health Collaborative Governance

Unified Vision For Downtown Providence

Energy

Transportation
Hub &
Pedestrian
Networks

GHG emissions, Embodied Carbon Circular economy Construction & Operations waste Green
Infrastructure,
Water
reduction &
reuse

Farmer's Market or Crop Share Drop-off area

Material health, Active design, & Biophilic design

Community workshops and charrettes

Sustainability Framework: Identifying SDG target for PVD-UVD



2.1 end hunger and ensure access to safe, nutritious and sufficient food all year round

2.3 agricultural productivity and incomes of smallscale food producers, in particular women, indigenous peoples, family farmers



3.6 halve the number of global deaths and injuries from road traffic accidents

3.9 reduce illness and death from hazardous chemicals and air, water and soil pollution



6.3 improve water quality by reducing pollution ... and substantially increasing recycling and safe reuse.

6.4 increase water-use efficiency across all sectors



7.2 increase substantially the share of renewable energy

7.3 double the global rate of improvement in energy efficiency



8.9 devise

and implement policies to promote sustainable tourism that creates iobs and promotes local culture and products.



10.2 empower and promote the social, economic and political inclusion of all. irrespective of age, sex, disability, race, ethnicity, origin, religion or economic or other status



11.2 provide access to safe. affordable, accessible and sustainable transport systems for all

11.7 provide universal access to safe, inclusive and accessible, green and public spaces



12.2 sustainable management of natural resources death from

12.3 Halve food waste, retail and consumer

12.4 environmental management of chemicals and all wastes

12.5 waste reduction through prevention, reuse, recycling

12.7 Promote procurement practices that are sustainable

12.8 relevant information and awareness for sustainable development



3.9 reduce

illness and

hazardous

chemicals

water and

soil pollution

and air,

3.9 reduce illness and death from hazardous chemicals and air, water and soil pollution



NUTRITION AND PROMOTE SUSTAINABLE AGRICULTURE

UNSDGs

Target 2.1

By 2030, end hunger and ensure access by all people, in particular the poor and people in vulnerable situations, including infants, to safe, nutritious and sufficient food all year round

Target 2.3

By 2030, double the agricultural productivity and incomes of small-scale food producers, in particular women, indigenous peoples, family farmers

PROVIDENCE GOALS

Sustainable Providence

- Provide every Providence resident with access to safe, affordable, nutritious, and culturally appropriate food
- Cultivate a healthy environment in Providence by striving for zero waste, adopting ecologically sound and sustainable practices, and ensuring healthy, fair, and just working conditions and wages
- Contribute to the state and city's economy by supporting long-term economic development opportunities in the food sector.

STRATEGIES

Planning & Design

- Farmer's Market or Crop Share Drop-off area
- Community Garden

Operational

- Year-round farmer's market and accept EBT
- Crop-Share Programming
- Engage MBE/WBE as vendors
- Locally sourced food
- Support diverse food options & businesses
- Community garden programming or access.

KEY PROJECT DESIGN CONSIDERATIONS

Identify dedicated space for:

- Loading Capacity
- Trash Capacity
- Potential electrical connections for vendors

Consider how programming of site can contribute to the City's food security and affordability goals (e.g. seasonal farmer's market, food trucks, community gardens, etc.)



ENSURE HEALTHY LIVES AND PROMOTE WELL-BEING FOR ALL AT ALL AGES

UNSDGs

Target 3.6

By 2020, halve the number of global deaths and injuries from road traffic accidents

Target 3.9

By 2030, substantially reduce the number of deaths and illnesses from hazardous chemicals and air, water and soil pollution and contamination

PROVIDENCE GOALS

Climate Justice Plan Community Health

 Create the conditions for healthy air and community spaces free from pollution for all Providence residents

STRATEGIES

Planning & Design

- Pedestrian Network across site and connecting Riverwalk with Kennedy Plaza
- Healthy Material selection
- Alignment with LEED low-emitting material requirements for schools

Operational

- No petrochemical fertilizers
- Construction air quality control measures

KEY PROJECT DESIGN CONSIDERATIONS

Ensure the pedestrian network is continuous and safe across both the plaza and Riverwalk

Select materials that are compliant with LEED low emitting material and Red List free requirements



ENSURE AVAILABILITY AND SUSTAINABLE MANAGEMENT OF WATER AND SANITATION FOR ALL

UNSDGs

Target 6.3

improve water quality by reducing pollution ... and substantially increasing recycling and safe reuse.

Target 6.4 substantially increase waster-use efficiency across all sectors

PROVIDENCE GOALS

Sustainable Providence

 Strive for all water bodies to be fishable, swimmable, and accessible, and to provide high quality, affordable drinking water to all residents.

STRATEGIES

Planning & Design

- Decrease impervious area
- Reduce or eliminate irrigation demands
- Hydration & water bottle stations

Operational

- Responsible water consumption & reuse
- No petrochemical fertilizers
- Restroom and hydration station maintenance

KEY PROJECT DESIGN CONSIDERATIONS

Install green space and impervious pavement options wherever feasible

Use native species in landscape design

Install drip irrigation system, if irrigation needed

Identify spaces for hydration and water bottle refill stations

Install low-flow fixtures for water efficiency



ENSURE ACCESS TO AFFORDABLE, RELIABLE, SUSTAINABLE AND MODERN ENERGY FOR ALL

UNSDGs

Target 7.2

By 2030, increase substantially the share of renewable energy in the global energy mix

Target 7.3

By 2030, double the global rate of improvement in energy efficiency

PROVIDENCE GOALS

Sustainable Providence

 Expand renewable energy and clean energy projects, and implement energy reduction policies and practices city-wide through promotion and project development

Climate Justice Plan Lead By Example

- 100% of municipal buildings' electricity will be renewable by 2030
- 100% of municipal buildings' heating will be renewable by 2040
 Clean Energy
- Transition to 100% clean energy supply in Providence, with a focus on local generation and equitable access.

STRATEGIES

Planning & Design

- LED lighting
- Integrated Solar PV canopies (bifacial glass modules)
- Heat waste reuse from ice rink
- Energy efficient mechanical equipment

Operational

- Re-commissioning
- Maintenance

KEY PROJECT DESIGN CONSIDERATIONS

Evaluate opportunities for heat waste recovery from ice rink in the Winter

Ensure the electrical system is designed to integrate a Solar PV system

Install Solar PV where possible (e.g., canopies, welcome center, light posts, etc.)



PROMOTE SUSTAINED, INCLUSIVE AND SUSTAINABLE ECONOMIC GROWTH, FULL AND PRODUCTIVE EMPLOYMENT AND DECENT WORK FOR ALL

UNSDGs

Target 8.9

By 2030, devise and implement policies to promote sustainable tourism that creates jobs and promotes local culture and products.

PROVIDENCE GOALS

Sustainable Providence Sustainable Providence

 Reinforce neighborhood character and diversity, promote green economic development opportunities, and improve the overall quality of life for all residents

Climate Justice Plan Local and Regenerative Economy

 Meet annual targets of 10% of City spending in municipal purchases of goods and services from statecertified women-owned enterprises and 10% of City spending in municipal purchases of goods and services from state-certified minority-owned enterprises as outlined in City ordinance.

STRATEGIES

Planning & Design

- Engage with local business and community
- Multi-lingual signage

Operational

- Continue to engage with local businesses and community through programming
- Local arts initiatives
- Prioritize maintenance of park amenities
- Bring arts and cultural events into the public realm

KEY PROJECT DESIGN CONSIDERATIONS

Incorporate local culture and neighborhood character in design

Engage local artists and businesses in design and programming of site

Identify an MBE/WBE goal for the project

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REDUCE INEQUALITY WITHIN AND AMONG COUNTRIES

UNSDGs

Target 10.2

empower and promote the social, economic and political inclusion of all, irrespective of age, sex, disability, race, ethnicity, origin, religion or economic or other status

PROVIDENCE GOALS

Climate Justice Plan Collaborative Gov. & Accountability

 By 2025, the Office of Sustainability is actively partnering with frontline community organizations on every major initiative using a collaborative governance model

STRATEGIES

Planning & Design

- Workshops and feedback from local community and frontline communities
- Parks and plazas with diverse, simultaneous uses

Operational

Community programming

KEY PROJECT DESIGN CONSIDERATIONS

Based on feedback from public meetings and community engagement, the following items were identified as important to the community:

- Ability for pop-up business
- Care for pedestrians, transit riders, and bike paths, including at the pedestrian crossing at Memorial Blvd.
- Concern for breaking up a central bus hub
- Give space and recognition to native indigenous people and the Narraganset tribe
- Space for everyday activities and flexibility, not just events
- Amenities for unhoused population
- Accessibility
- Historical preservation

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MAKE CITIES AND HUMAN SETTLEMENTS INCLUSIVE, SAFE, RESILIENT AND SUSTAINABLE

UNSDGs

Target 11.2

By 2030, provide access to safe, affordable, accessible and sustainable transport systems for all

Target 11.7

By 2030, provide universal access to safe, inclusive and accessible, green and public spaces, in particular for women and children, older persons and persons with disabilities

PROVIDENCE GOALS

Sustainable Providence Land Use and Development

- support the development of healthy and walkable neighborhoods
- emphasize the creation and preservation of open space

Climate Justice Plan Transportation

- Ensure that all Providence residents have access to clean and efficient public transportation and infrastructure that supports walking and riding bicycles
- By 2035, 11% reduction in Vehicle Miles Traveled (VMTs) and by 2050, 20% reduction in VMTs.
- By 2035, 43% of VMTs in Providence are electric and by 2050, 80% of VMTs are electric.

STRATEGIES

Planning & Design

- Accessible/Universal design elements
- Wayfinding signage that is effective
- Improve public safety through lighting design strategy
- Variety of seating with backs, arms, and different seat heights
- Circulation network with ramps & stairs, handrails, contrast in materials, and slip resistance
- Bicycle network that is safe and continuous
- Accessible faucets, varying counter heights in restrooms
- Flexible public spaces

Operational

• Maintenance of public design elements and amenities

KEY PROJECT DESIGN CONSIDERATIONS

integrate accessible, safe, and universal design features throughout the project site

Ensure the design of public restrooms is inclusive

Develop a clear wayfinding strategy with clearly defined spaces for pedestrians, bicycles, cars and public transportation



ENSURE SUSTAINABLE CONSUMPTION AND PRODUCTION PATTERNS

UNSDGs

Target 12.2

achieve sustainable management and efficiency use of natural resources

Target 12.3

Halve food waste at the retail and consumer levels

Target 12.4

achieve the environmentally sound management of chemicals and all wastes

Target 12.5

reduce waste generation through prevention, reduction, recycling and reuse

Target 12.7

Promote public procurement practices that are sustainable

Target 12.8

ensure that people everywhere have the relevant information and awareness for sustainable development 129

PROVIDENCE GOALS

Sustainable Providence Fully implement a Zero Waste

strategy by 2033

Climate Justice Plan Local and Regenerative Economy By 2040, eliminate food waste in Providence

STRATEGIES

Planning & Design

- Organic waste collection in impact locations, e.g. Kennedy Plaza.
- Recycling coupled with trash collection
- Educational signage on sustainable elements

Operational

- Reduce availability/use of single use plastics
- Clean-up campaigns
- Construction waste management
- · Composting partnerships

KEY PROJECT DESIGN CONSIDERATIONS

Identify location of waste collection location and ensure those locations are easy to see and use

Consider educational opportunities around waste collection and reducing consumption

Reduce construction waste from project

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TAKE URGENT ACTION TO COMBAT CLIMATE CHANGE AND ITS IMPACTS

UNSDGs

Target 13.1

Strengthen resilience and adaptive capacity to climate-related hazards and natural disasters in all countries

Target 13.2

Integrate climate change measures into national policies, strategies and planning

Target 13.3

Improve education, awareness-raising and human and institutional capacity on climate change mitigation, adaptation, impact reduction and early warning

PROVIDENCE GOALS

Sustainable Providence

 Expand renewable energy and clean energy projects, and implement energy reduction policies and practices city-wide through promotion and project development.

Climate Justice Plan Collaborative Gov. & Accountability

- Develop a long-term climate resilience and adaptation plan
- By 2035, there are three Resilience Hubs in frontline communities and by 2050, there is one in every neighborhood

STRATEGIES

Planning & Design

- Raised Riverwalk to protect from flooding
- Use flood-resistant materials and flood barriers to minimize coastal flood impacts
- Use materials that reduce urban heat island impacts
- Design drainage for increased rainfall and improve stormwater management practices

Operational

- Educational opportunities for enhancing public understanding of climate change
- Regular maintenance of pervious pavement, green infrastructure, drainage, etc.
- Regular care and maintenance of trees and plantings

KEY PROJECT DESIGN CONSIDERATIONS

Elevate the Riverwalk and install flood barriers as needed

Consider opportunities for integrating trees, green infrastructure, and rainwater harvesting

Implement additional shading options as part of project design

Ensure drainage is designed for increased intensity of rainfall

Ensure mechanical and HVAC equipment can accommodate future temperature projects, especially as it relates to the impact of warmer winters on the ice rink and the impact of more extreme heat days in the summer on the comfort and use of the

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PROTECT, RESTORE AND PROMOTE SUSTAINABLE USE OF TERRESTRIAL ECOSYSTEMS, SUSTAINABLY MANAGE FORESTS, COMBAT DESERTIFICATION, AND HALT AND REVERSE LAND DEGRADATION AND HALT BIODIVERSITY LOSS

UNSDGs

Target 15.2

By 2020, promote the implementation of sustainable management of all types of forests

Target 15.5

Take urgent and significant action to reduce the degradation of natural habitats, halt the loss of biodiversity

Target 15.9

By 2020, integrate ecosystem and biodiversity values into national and local planning, and development processes

PROVIDENCE GOALS

Climate Justice Plan

- Incorporate community priorities and maximize opportunities for new open space and climate resiliency investments.
- Prioritize tree plantings in lowcanopy areas where heat island index is high, and residents can experience the cooling (electricity savings), air pollution, and water filtration benefits.
- Prioritize deep root, native plantings in parks and other public green spaces to maximize carbon sequestration, eliminate the need for fossil fuel-based fertilizer and pesticides, and educate the community on the climate and biologically benefits of such planting and land use practices.

STRATEGIES

Planning & Design

- Enhance biodiversity with plant selection
- Avoid monoculture
- Focus on pollinator plants
- FSC Certified (or equivalent) wood products
- Decrease impervious area
- Increase street trees
- Weave natural elements into park and playground areas

Operational

- No petrochemical fertilizers
- Responsible water consumption & reuse
- Maintenance of greenery

KEY PROJECT DESIGN CONSIDERATIONS

Increase green space from what was previously in the plaza and Riverwalk

Increase number of trees on site, especially along pedestrian pathways and sidewalks

Implement native species and consider opportunities for pollinator pathways

Transportation

Design Principles



The following design principles define the key objectives of the transportation design:

Safety

Design streets for people, prioritize pedestrian and cyclist movement to provide a safe, convenient, efficient, and enjoyable user experience for all users.

Interconnected

Enhance connectivity and accessibility to the district mobility network and incentivize non-vehicular transportation through provision of high- quality pedestrian and bike amenities.

Modal diversity

Accommodate a variety of travel modes that allow multiple journey options, support last mile connectivity, and enhance network resilience.

Design Principles (cont.)



Flexibility

Anticipate emerging mobility trends and technologies so that they can be integrated within the Downtown in the future. Safeguard space and alignments so that minimal changes need to be made for their growth.

Sustainable Design and Operation

Support the built environment in considering impact on health & wellness, energy consumption, air & water quality, carbon production, resource consumption, economic impact, and management & maintenance.

Public Realm Integration

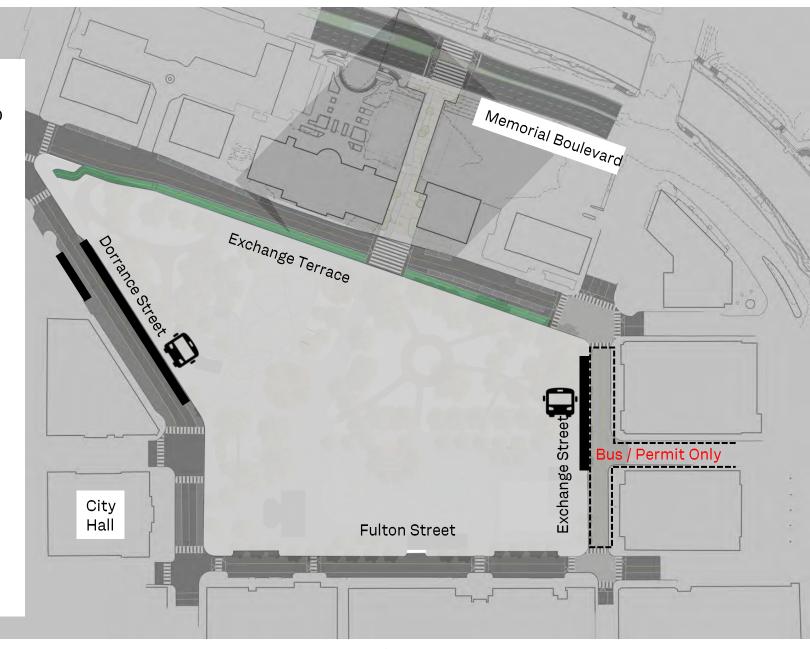
Provide transit infrastructure that contributes to the quality of the public realm.

Public Transit

We understand the importance of Kennedy Plaza and Downtown as a key destination and crossing point for public transit users. We also recognize the ability and flexibility of the city grid to allow us to redistribute traffic and alleviate pressure on specific sections which then can unlock new opportunities.

Our proposals for public transit integration comprise two key moves:

- Closure of Washington Street through Kennedy Plaza and redistribution of transit routes to adjacent roads in the Downtown Grid. This allows the unification of Kennedy Plaza, Biltmore Park, and Burnside Park as one space.
- Bus berths are then book ended on either side of the project providing convenient access to services from either side of Kennedy Plaza. Exchange Street is also converted to a bus only precinct. These berths are designed to be scalable to allow compatibility with the wider public transit network once these plans are finalized.



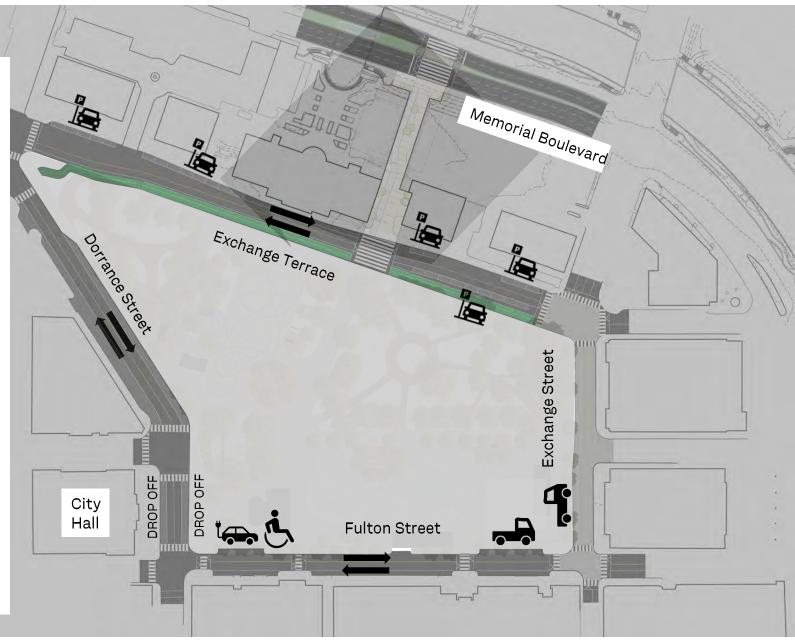
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Public Transit

Public parking spaces are maintained along Exchange Terrace and in part along Fulton Street including drop off locations for rideshare vehicles in front of City Hall.

Accessible parking is provided on the western end of Kennedy Plaza including EV charging facilities.

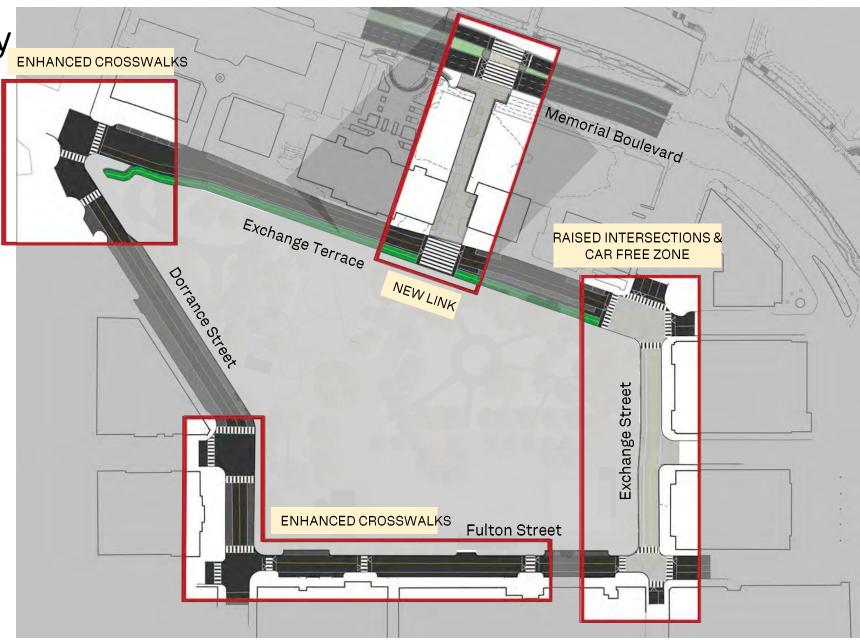
Logistics access for Kennedy Plaza is located on Fulton Street and Exchange Street to service the big shade and main plaza area. All logistics access to buildings along Fulton Street are fully maintained.



Pedestrian Connectivity

A series of pedestrian connection improvements linking from the wider street network into Kennedy Plaza are proposed. These include:

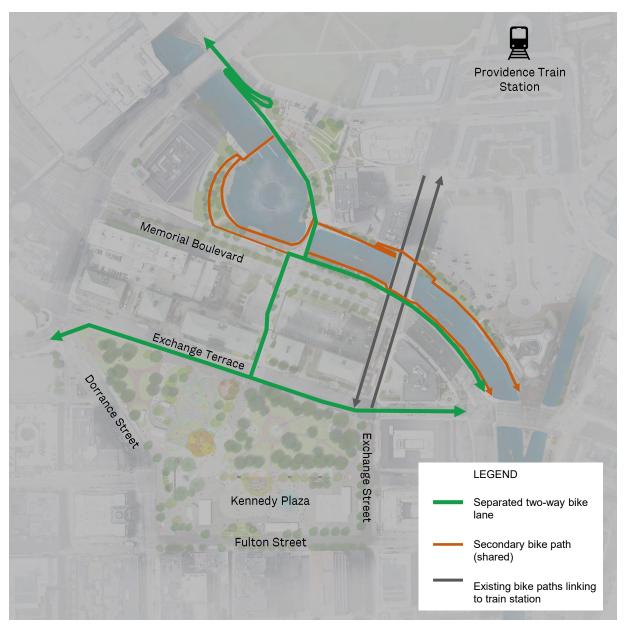
- Enhanced at-grade crosswalks along Dorrance Street
- Raised crosswalks along Fulton Street
- Raised intersections and car free zone along Exchange Street
- A new elevated pedestrian and bike only walkway from Exchange Terrace, crossing Memorial Boulevard at-grade and creating a new link to the river.



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Bike Access

Bike access is catered for through a series of new separated two-way bike lanes along Exchange Terrace and linking to the riverfront and Memorial Boulevard. A strategic connection through Waterplace Park connects commuters and recreational riders to the Woonasqua-tucket River Greenway, and north to the Train Station.



Thermal Comfort & Acoustics Analysis

Executive Summary

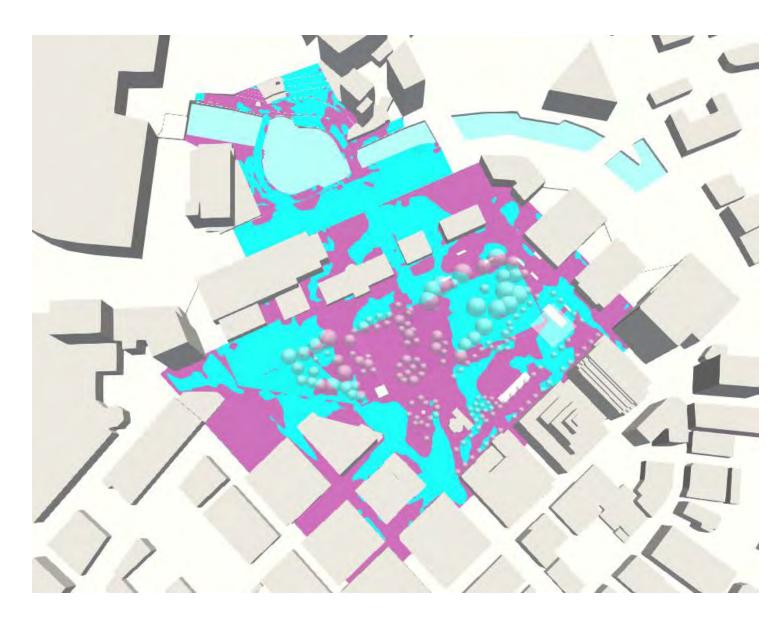
A microclimate study was carried out for Downtown Providence to assess comfort and usability of the outdoor spaces. Numerical wind simulations were combined with a detailed solar analysis and local weather data to estimate the feel temperature throughout the year.

The results show that the proposed design and landscaping plan provides a comfortable environment for strolling and playing outdoors during most of the year.

Three areas were selected for detailed analysis based on their unique comfort requirements or environmental characteristics:

- The Waterplace Park has areas exposed to wind and sun. Landscaping elements or screens may extend the use of this space for sedentary activities.
- The Free Space is sheltered from the wind. The availability of natural shading varies, and additional shading may be used to reduces summer solar heating.
- The Event Space at Kennedy Plaza is exposed to downdrafts from northwesterly winds and is shaded by adjacent building. Needs for comfort vary seasonally.

The outcome of this study is a categorization of the programmed elements according to what mitigation measures, if any, may be used to improve comfort.



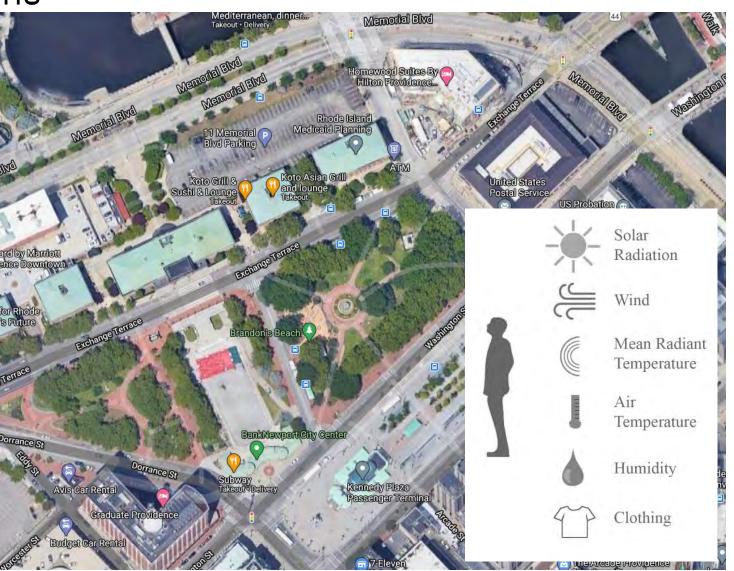
Thermal Comfort Considerations

The local climate, its relationship with the built environment and people expectations contributes to comfort and usability of the outdoor spaces throughout the year.

As typical for this area of the United States, the weather in Providence offers great opportunities for outdoors activities during late spring to early autumn. During the warmer part of the year, the public realm becomes a space for events, festivals and casual meet ups.

During winter, the usability of the outdoors is challenged by the cold weather. The programming changes to include ice skating and locally heated spaces to hang out. Generally, it is expected for people to engage in less sedentary activities. The site has opportunities to extend the usability of the outdoors in the shoulder seasons and into the winter with appropriate mitigations.

The Arup | Stimson | Ultramoderne masterplan incorporates a number of features that are designed to improve the quality of the outdoor spaces, including shading structures and landscaping elements.

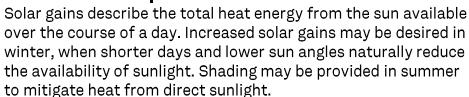


Method and Metrics

Wind =

The Lawson Criteria are used to describe the windiness around the development in terms of acceptable activity in that area. Wind speeds above 22 mph are considered unsafe for pedestrian activities and should be avoided using mitigations.

Solar Radiation



Feel Temperature

The feel temperature is estimated using the Universal Thermal Comfort Index (*UTCI*), which considers local climate parameters (air temperature, solar radiation, humidity, and wind speed) and correlates them with different physiological responses, from comfortable to extreme heat/cold stress.

Wind Speed	Criteria
0 - 4.5 mph	Long period of sitting / dining
4.5 - 9 mph	Short period of sitting
9 - 13 mph	Standing
13 - 18 mph	Strolling / Window shopping
18 - 22 mph	Fast / Business Walking
Above 22 mph	Uncomfortable

Irradiance	Light Quality	
0 - 1 kWh/m ²	Constant shade	
1 - 2 kWh/m ²	Moderate diffuse daylight	
2 - 3 kWh/m ²	Brief or low-angle sunlight	
3 - 4 kWh/m ²	Occasional direct sunlight	
Above 4 kWh/m ²	Frequent direct sunlight	

Temperature	Comfort Category
90 – 100 °F	Hot
80 – 90 °F	Warm
50 – 80 °F	Neutral
32 – 50 °F	Cool
10 – 32 °F	Cold

Use Classification



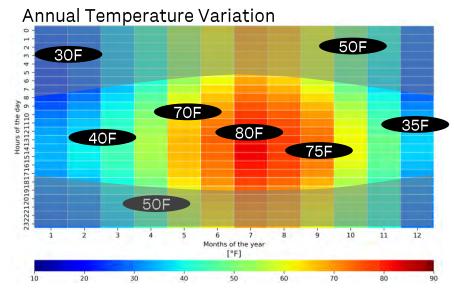




The percentage of time between 8 am and 8 pm when the feel temperature is comfortable (either warm, neutral, or cool, but not hot or cold) determines the use classification. These classifications are based on the City of London Thermal Comfort Guidelines, modified to account for local climate factors.

Winter	Other Seasons	Use
> 55%	> 80%	Meet and hang
35% – 55%	50% – 80%	Stroll and play
< 35%	< 50%	Walk and commute

Climate Overview



Annual Relative Humidity

70

80

%

60

%

Months of the year

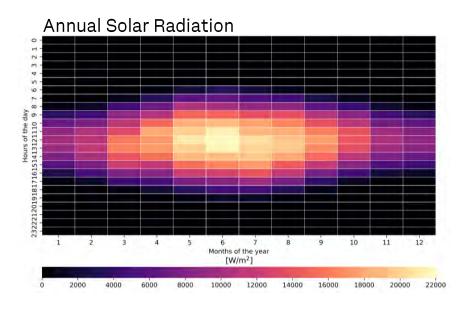
[%]

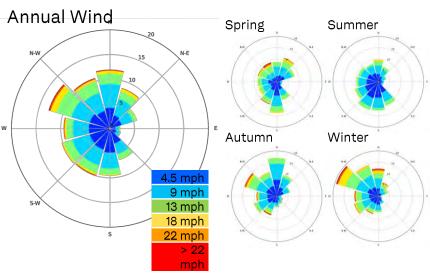
A climate assessment was carried out using historical data from TF Green Intl Airport.

Providence is characterized by hot and humid summers and cold and windy winters, with temperatures often below freezing. Summer evenings and shoulder seasons offer the best opportunities to enjoy the outdoors.

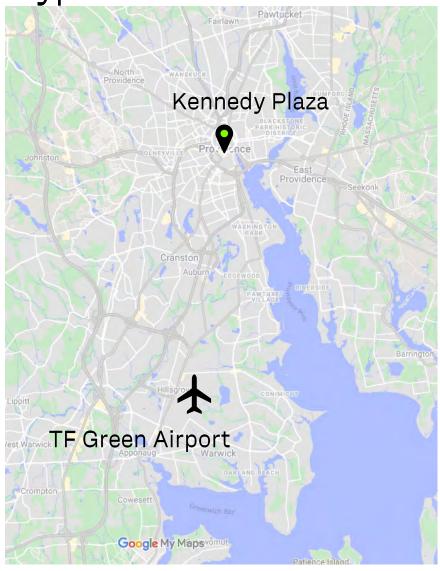
Daylight is available for longer and with greater intensity in summer than in winter. During cold winter days, the solar access is beneficial for thermal comfort, but the lower sun angles make the outdoors easily shaded by the surrounding buildings.

The prevailing winds are from the northwest to north, especially in the winter. Cold winds will cause discomfort and disrupt connectivity between places. Summer wind conditions are calmer with winds from the southeast to southwest and occasionally from the north. Summer breezes are expected to help mitigate the heat.





Typical Comfort Conditions (TF Green Airport, 8am – 8pm)



Wind and feel temperature conditions were benchmarked using the weather data recorded at TF Green Intl Airport. These figures provide an indication of the typical comfort conditions in the area and in absence of the urban context.

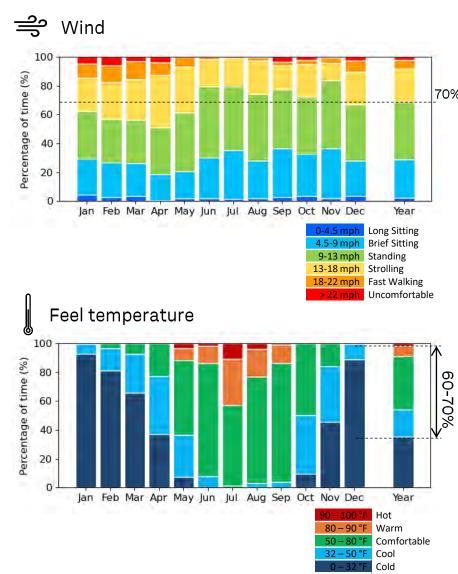
Wind

Winds are overall calm and within the 'standing' range (13 mph) about 70% of the year. The windiest conditions are recorded during winter, when high winds (above 18 mph) occur during about 20% of the time.

Feel temperature

The feel temperature is comfortable (either warm, neutral, or cool, but not hot or cold) during 60-70% of the year on average. This figure varies significantly throughout the year.

During winter, the feel temperature is in a cold to cool range most of the time. As the environmental temperature warms up, the feel temperature is comfortable most of the time during the shoulder seasons. Heat stresses are expected during the hottest months of the year (July and August), with feel temperature in the hot range up to about 10% of the time on average during August.



Site Seasonal Comfort



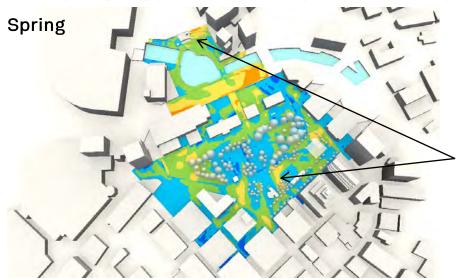




Walk and commute



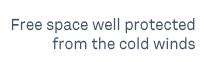
Seasonal Wind Patterns



Wind comfort is based on the 95th percentile wind speed encountered between 8 am and 8 pm during each season.

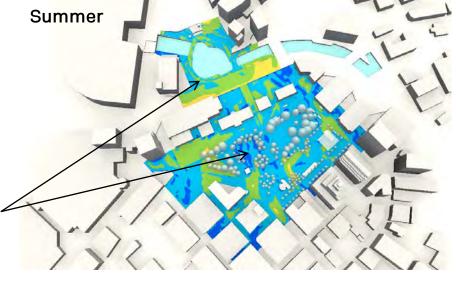
Effects of the downdraft from the surrounding buildings

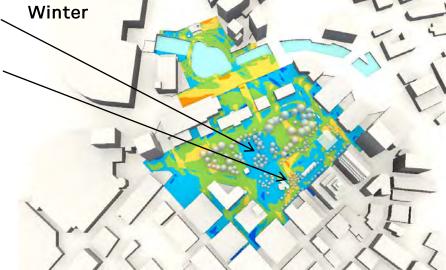
Calm conditions around the basin and in the free space



Effects of the downdraft from the surrounding buildings

Wind Speed	Criteria
0-4.5 mph	Long period of sitting / dining
4.5-9 mph	Short period of sitting
9-13 mph	Standing
13-18 mph	Strolling / Window shopping
18-22 mph	Fast / Business Walking
> 22 mph	Uncomfortable

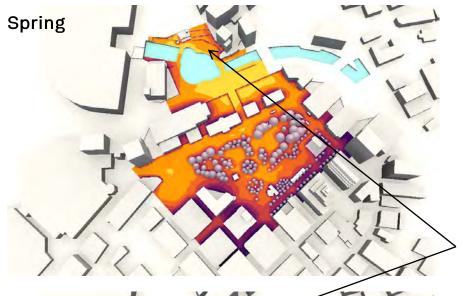






Autumn

Seasonal Solar Irradiance

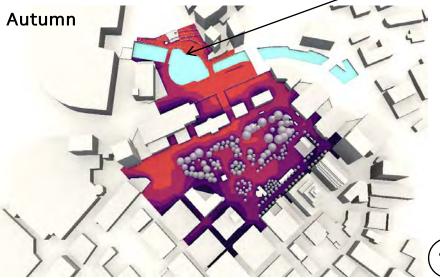


Solar irradiance is based on the average daily solar gains available in each season.

Daily average irradiance (kWh/m²)

0 1 2 3 4

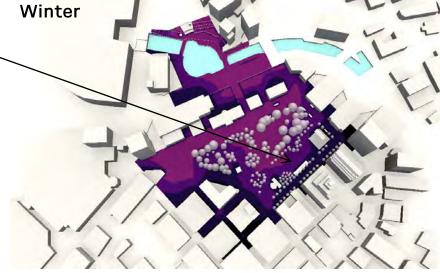
Solar exposure is beneficial in shoulder seasons



Ice rink area mostly shaded in winter

Irradiance	Light Quality
0-1 kWh/m ²	Constant shade
1-2 kWh/m²	Moderate diffuse daylight
2-3 kWh/m²	Brief or low-angle sunlight
3-4 kWh/m²	Occasional direct sunlight
Above 4 kWh/m²	Frequent direct sunlight





Seasonal Comfort Patterns



Comfort conditions exist when the feel temperature (determined by air temperature, relative humidity, solar radiation, and wind speed) is either warm, neutral, or cool between 8 am and 8 pm.

Outdoor comfort (% of time 8am - 8pm)

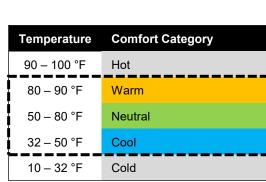


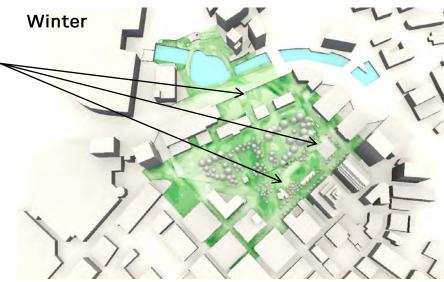
Solar exposure and calm winds drive warm conditions



Wind reduces feel temperature in winter

Temperature	Comfort Category
90 – 100 °F	Hot
80 – 90 °F	Warm
50 – 80 °F	Neutral
32 – 50 °F	Cool
10 – 32 °F	Cold







Autumn

Seasonal Usability



Usability is based on the percentage of time during each season between 8 am and 8 pm when comfort conditions exist.

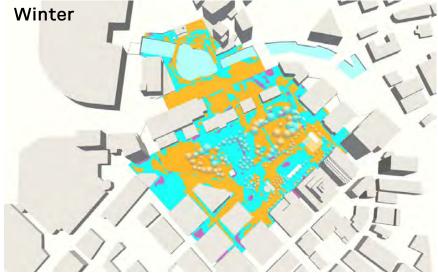
Windy conditions cause cooler perceived temperatures

During winter, less sedentary activity is expected

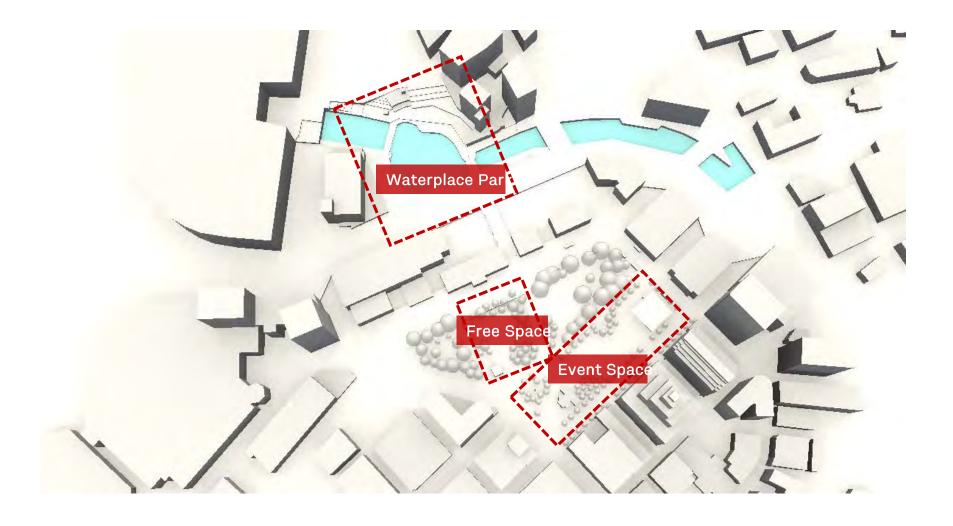


Winter	Other Seasons	Use
> 55%	> 80%	Meet and hang
35% – 55%	50% – 80%	Stroll and play
< 35%	< 50%	Walk and commute

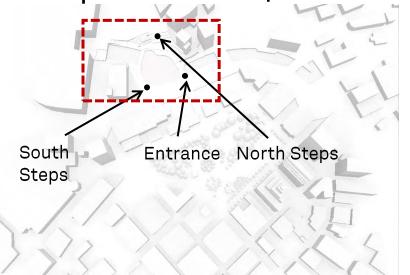




Areas of Interest



Waterplace Park | Annual Overview



The images show the yearly wind, solar irradiance and comfort conditions at the Waterplace Park between 8 am and 8 pm.

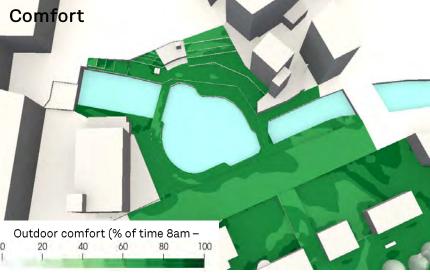
The Waterplace Park has good solar exposure, which is beneficial during winter and the shoulder seasons.

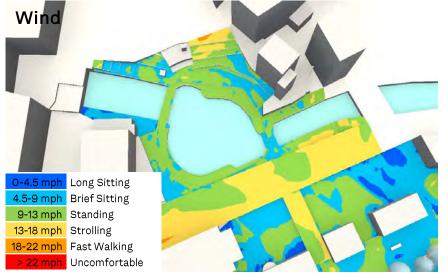
This space is relatively sheltered from the wind and is likely to be comfortable for a walk during most of the year.

The north steps may feel windy during cold days, as a result of the downdraft from the surrounding buildings.

The next slide provides information on the monthly irradiance, wind, and feel temperature at the entrance and the north and south steps.

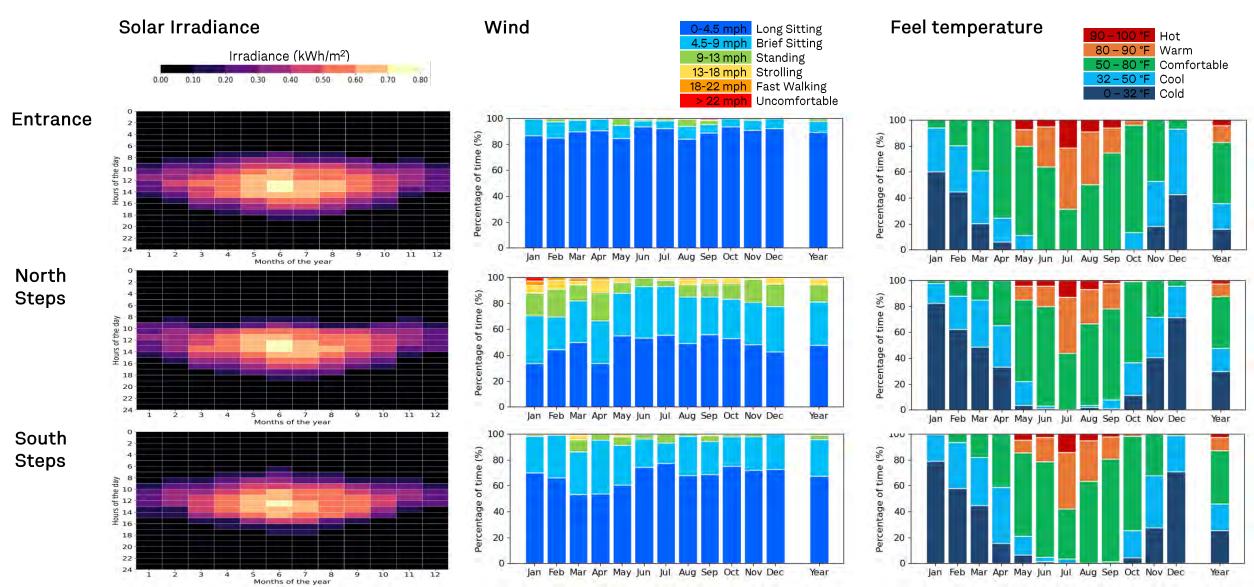




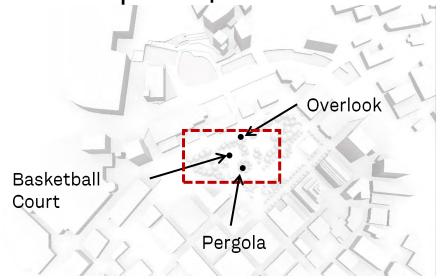


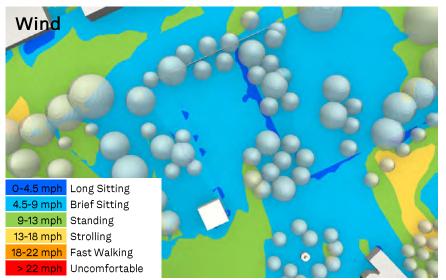


Waterplace Park | Monthly Overview (8am – 8pm)



Free Space | Annual Overview



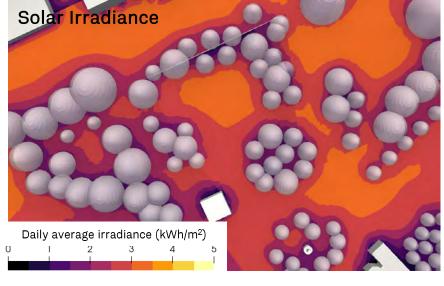


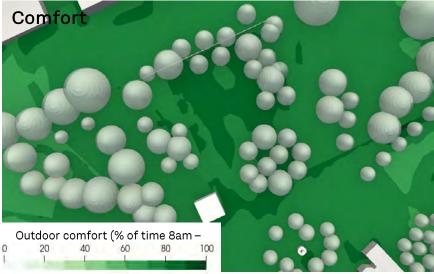
The images show the yearly wind, solar irradiance and comfort conditions at the Free Space between 8 am and 8 pm.

The Free Space is sheltered from the wind. The basketball court has longer solar exposure, particularly in June, while the surrounding areas are well-shaded by the proposed landscaping and the Free Space pergola.

People are likely to take advantage of the solar exposure during cold days. During summer, the shaded areas will provide comfortable places for people and players to take a break from the heat. The installation of the Free Space shade structure can alleviate some summer heat.

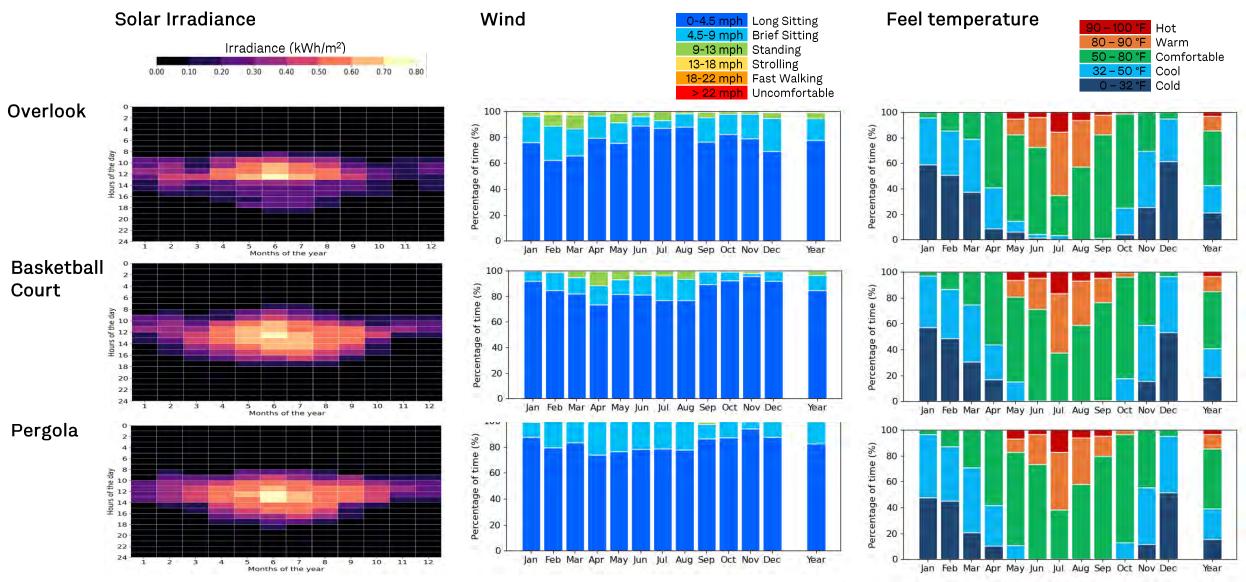
The next slide provides information on the monthly irradiance, wind, and feel temperature at the entrance, basketball court, and overlook.



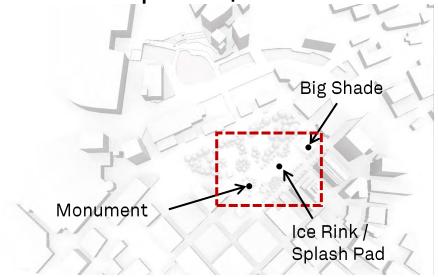




Free Space | Monthly Overview (8am - 8pm)



Event Space | Annual Overview

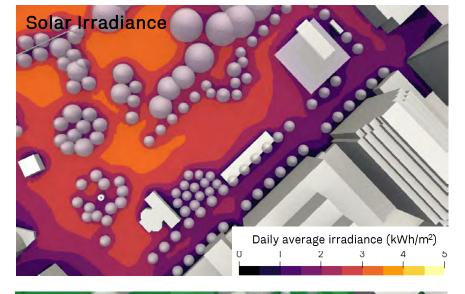


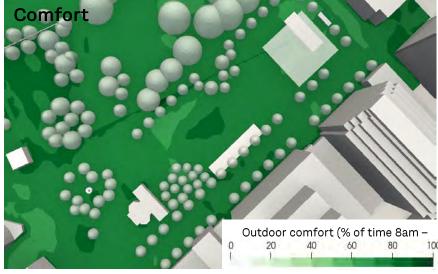
The images show the yearly wind, solar irradiance and comfort conditions at the Event Space between 8 am and 8 pm.

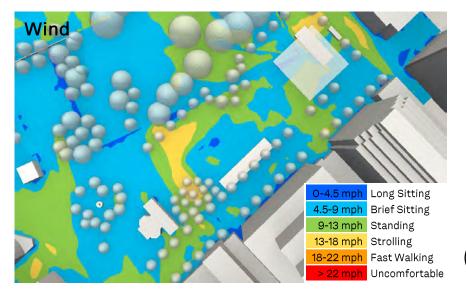
The Event Space is exposed to the northwesterly winds and fairly shaded from the sun by the adjacent building.

The proposed landscaping is likely to protect the area from the winds downdrafting from the nearby buildings and create pleasant wind conditions during most of the time.

The next slide provides information on the monthly irradiance, wind, and feel temperature at the monument, ice rink / splash pad, and under the big shade.

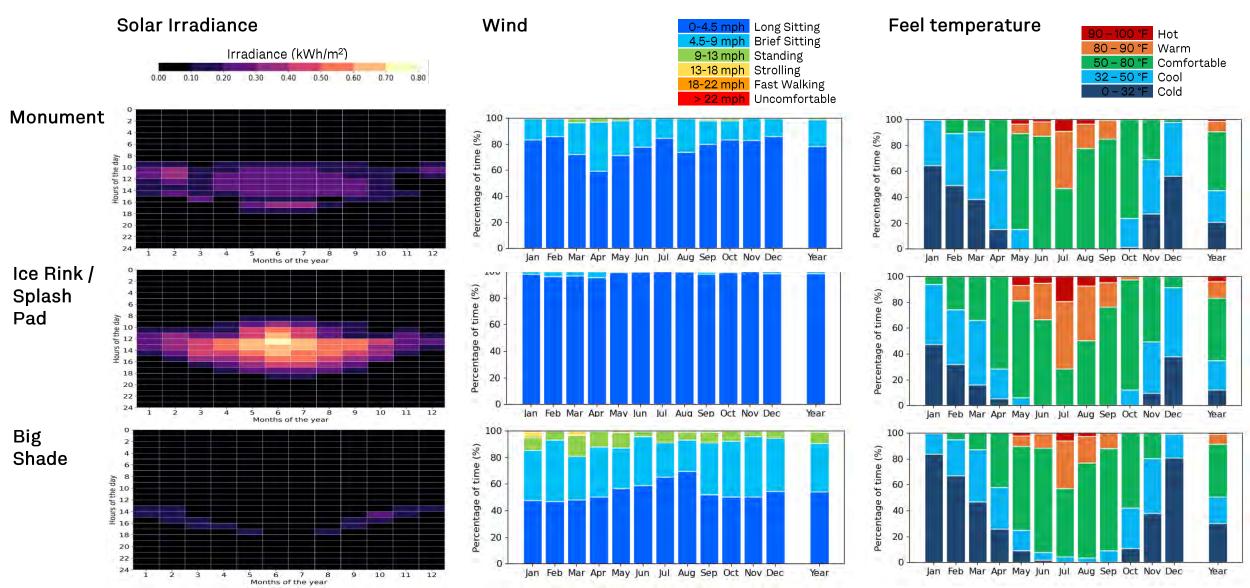








Event Space | Monthly Overview (8am - 8pm)



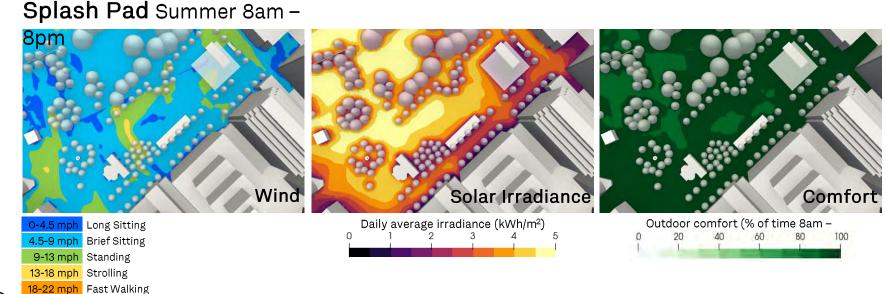
Event Space | Winter and Summer

Based on the seasonal use of the Event Space, different programmed activities will encounter widely varying comfort conditions over the course of the year.

Winter use as an Ice Rink will encounter higher wind speeds and reduced solar availability. These factors combine with already cold winter temperatures to reduce the comfort level in the area. However, reduced solar irradiance has a positive effect on maintaining ice in the rink. Occupants' winter clothing and elevated metabolic rates while skating will aid in providing comfort during this season.

In summer, high temperatures will encourage use of the Splash Pad. Occupants are only expected to use this amenity when it is otherwise uncomfortably hot. High solar irradiance levels will promote evaporative cooling, which may otherwise be reduced given the higher relative humidity levels encountered in July and August.

Ice Rink Winter 8am – 8pm Wind Solar Irradiance Comfort





22 mph Uncomfortable

Conclusions / Recommendations



Usage Goals

This plan indicates activity types associated with each area of the project. Programmatic zones are assigned comfort goals based on their expected usage.

- Meet and hang spaces are associated with sedentary activities and long residence times. These areas have the highest comfort requirements.
- Stroll and play spaces area associated with active use that promotes higher metabolic rates. These areas have moderate comfort requirements.
- Walk and commute zones are associated with paths where there is constant movement. Comfort requirements are most relaxed in these zones.



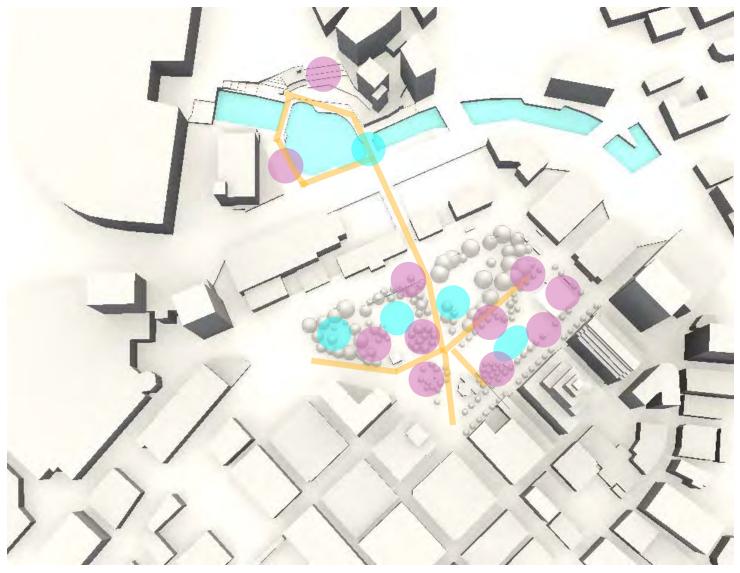
Meet and hang



Stroll and play



Walk and commute



Recommendations for Improved Usage

The following measures may be taken to improve comfort as indicated on the plan at right.



Reduce wind exposure – provide structures, screens, evergreen trees, or other year-round foliage to block and deflect wind.



Increase sun exposure – reduce the density of foliage or remove other obstructions to increase the availability of sunlight and solar heat.



Add shading – provide temporary structures, movable shades, deciduous trees, or other seasonal foliage to block or diffuse direct sunlight.





Acoustics

161

Included here are ambient noise levels measured throughout the entire project area, as previously reported in our 10% Design report.

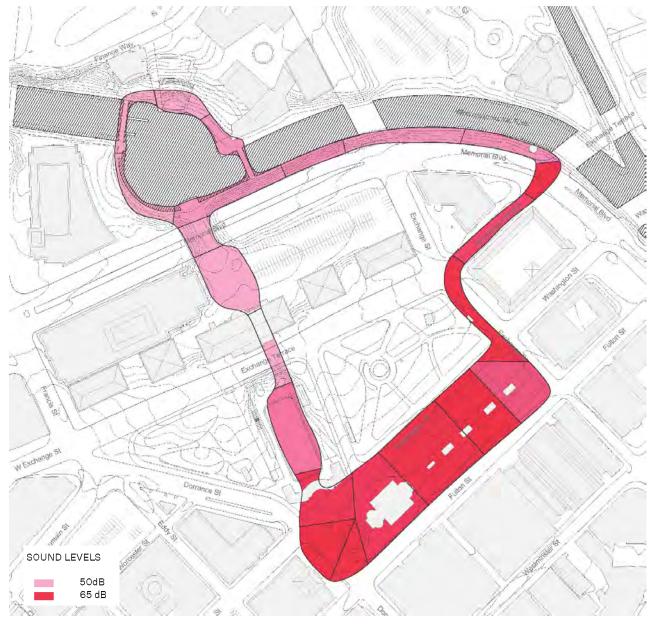
The noise levels on Kennedy Plaza are dominated by the bus traffic and bus idling.

It is difficult to hold a conversation at the center of Kennedy Plaza at rush hour.

Noise levels on Kennedy Plaza are un-pleasant, stress-full and not supporting of activations on the plaza.

The Riverwalks benefit from a quieter background noise, located away from the bus traffic and shielded from the traffic noise by the retention wall of Memorial Boulevard.

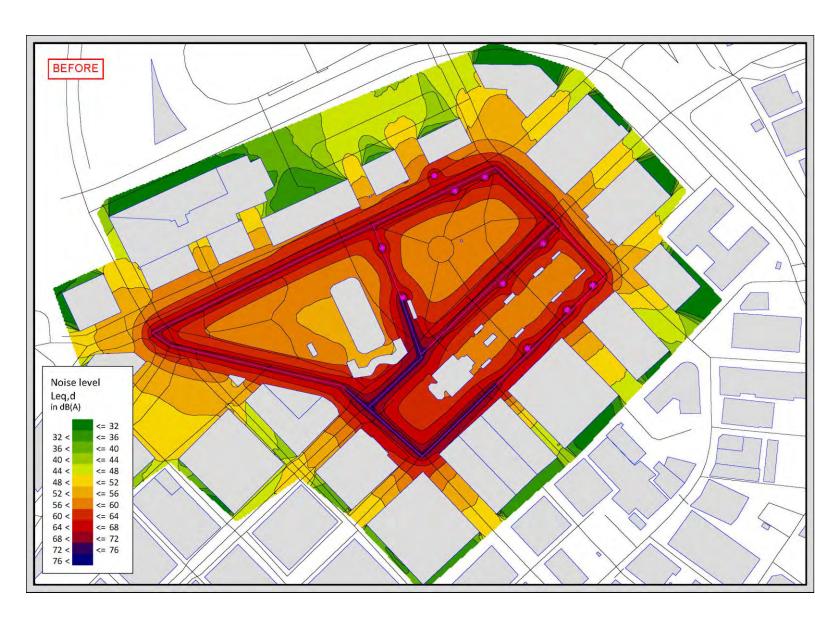
Sounds of nature are perceptible along the Riverwalks.



Acoustics

Acoustic simulations (SoundPlan) with the current terrain conditions were conducted to match the existing conditions, which were calibrated with the on-site noise measurements.

The results also show significant noise levels along East Approach with sound spills onto the Rink area and Burnside Park.



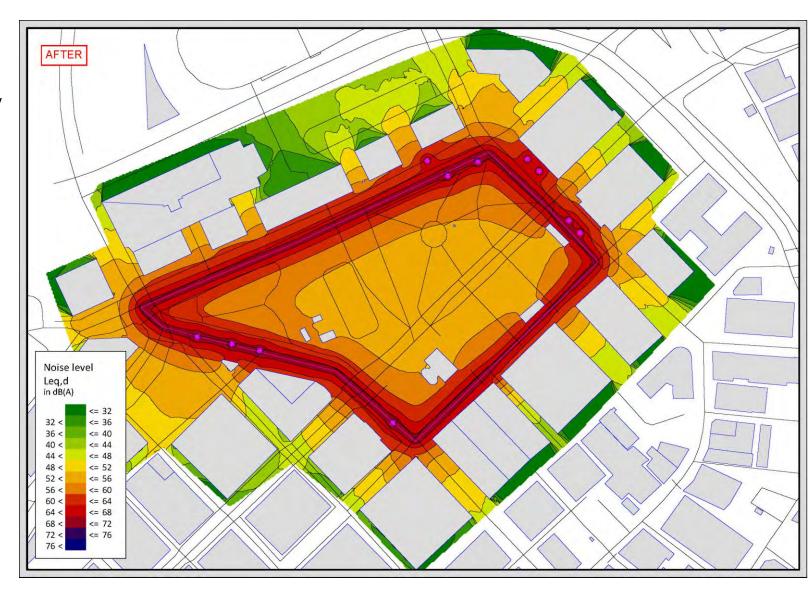
Acoustics

Acoustic simulations were conducted after removal of the buildings selected for demolition and the moving to the bus stops along Exchange and Dorrance Streets.

Noise levels are predicted to reduce by up to 10dB on Kennedy Plaza.

Such levels will create a more pleasant atmosphere within the unified public realm, which will support people conversations, events, natural acoustic performances, and activations of the plaza.

The moving of the busses also reduce the acoustic impact to the Rink area and Burnside Park.



Lighting

Table of Contents

- Introduction
- Design Concepts & Principles
- Lighting Implementation Summary
- Signature District Light Elements Overview
- Light Fixture Vocabulary & Accessories
- Site Plan Lighting Overview
- Kennedy Plaza Overview
 - Signature District Element Locations
 - Accent Lighting Elements
- Waterpark Basin / Riverwalk Overview
 - Signature District Element Locations
 - Accent Lighting Elements
- Connector Bridge Overview
- Lighting Design Criteria
- Lighting Controls Summary
- Light Fixture Schedule



Introduction



This design report outlines the basis of design and the lighting story for the Unified Vision for Downtown Providence. Light creates the ambiance and feel of a place, as well as the expression and identity, and is a fundamental aspect of this project.

The design strategy has been crafted to focus on the following key elements:

- Design features that use light to define a visual consistency for Downtown
- Lighting Technology and integration with other services to created a connected design solution
- Human-scale lighting elements, that engage, inspire, and energize visitors to the area
- Light as a means of enhancing the sense of safety, security, and visibility.

Design Concepts & Principles

Design Concepts:

The following key concepts are fundamental to the design process for lighting.

Identity

- Give downtown a signature identity
- Craft a nighttime environment
- Support wayfinding through downtown

Experience

- Create dramatic visual experience
- Stimulate night-time economy
- Make public feel safe
- Encourage outdoor socialization
- Encourage public transportation and foot traffic
- Create safe cycle routes to encourage activity
- Leaves people with memorable experience

Engaging

- Promote thought and curiosity
- Create a moments that attract visitors

Dynamic

- Support a dynamic flow through downtown
- Use dynamic lighting to reinforce district connections

Design Principles:

The lighting design fundamentally aims to provide a safe, equitable illuminated environment for everyone.

Natural Surveillance

- Uniform / Appropriate Lighting with proper heights and no obstructions
- Support good visibility, and comfortable light levels without over-lighting areas.

Activity Support

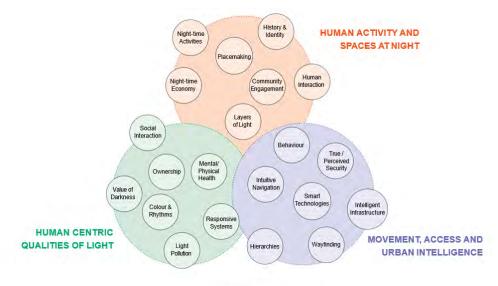
- · Make downtown appealing, safe, and active
- Wayfinding clearly identifiable walkways
- · Ability to clearly recognize faces
- Discourage any criminal activity

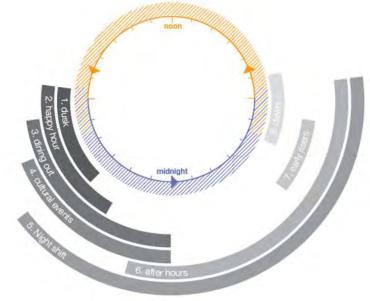
Maintenance

- Discourage graffiti and vandalism
- Specify products are resistant to vandalism

Local Manufacturers / MWBE

 Prioritize where possible the engagement of local manufacturers in the Rhode Island area and/or minority and women business enterprises





Lighting Implementation Summary

Signature District Light Elements:

- Light Towers
- Pedestrian Light Poles
- Digital Pylons

Community Lighting:

- · Water Feature Lighting
- Bus Stop Lighting
- Landscape / Accent / Feature Lighting
- Integrated Furniture Lighting
- Permanent Monument Lighting
- Big Shade Lighting

Experience Lighting Elements:

- Theatrical Lighting Infrastructure for performances
- Art Installation Infrastructure for Lighting
- Other seasonal Lighting Infrastructure













RGBW Signature Luminous Element

Signature District Light Elements

Light Towers & Pedestrian Poles

Context

The Light Pole configurations serve as the unifying element for the project.

There are two types of poles throughout the project:

- Pedestrian Pole Light Approx. 15 ft Tall
- Light Towers
 Approx. 40 ft Tall

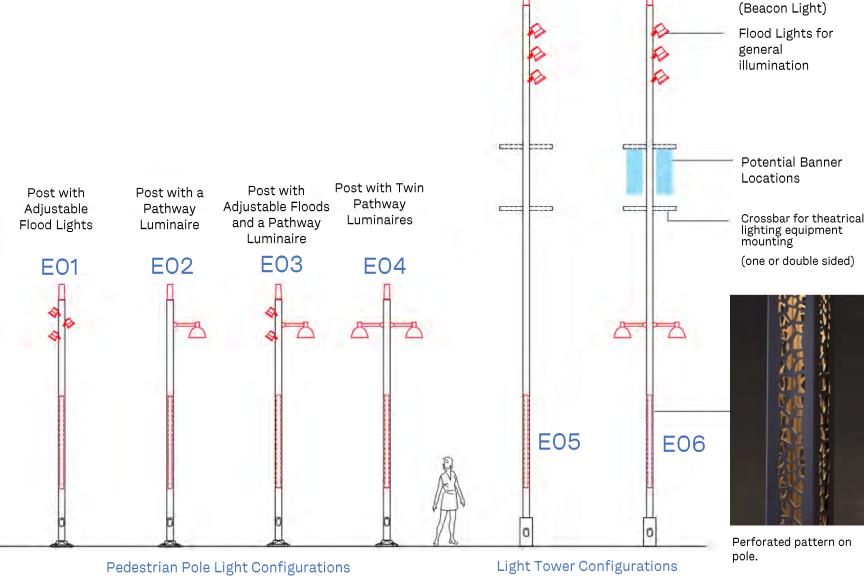
Pole Mounted Lights



Pathway Luminaire



Adjustable Floodlight



RGBW Signature

Signature District Light Elements: Networked Connectivity of Lighting

Light Towers & Pedestrian Poles

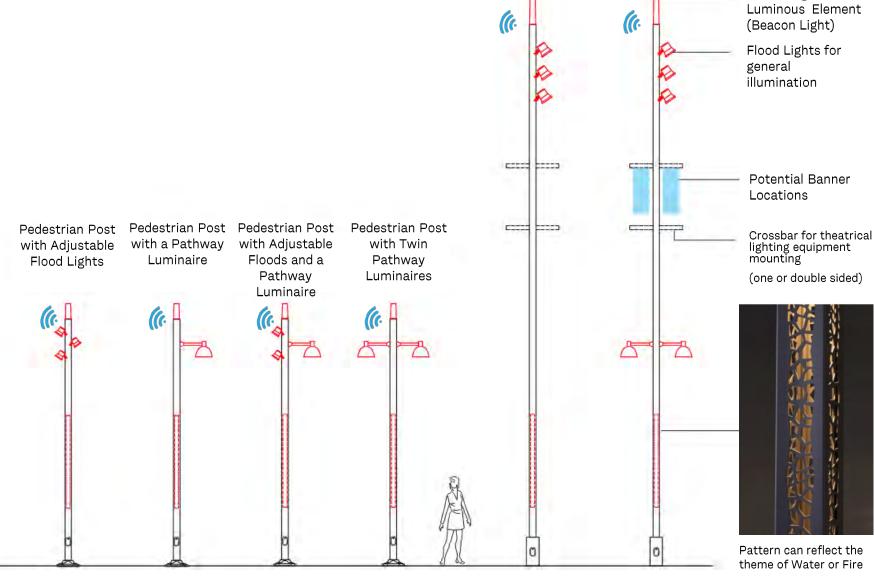
Specific Features

The Light Poles will utilize a wireless communication network that will allow for the following features:

- District lighting control
- Time clock control and dimming of all lights
- Interface with Community boards for district color-changing lighting synchronization
- Pre-set scenes for WaterFire, and other events
- Energy management of lighting

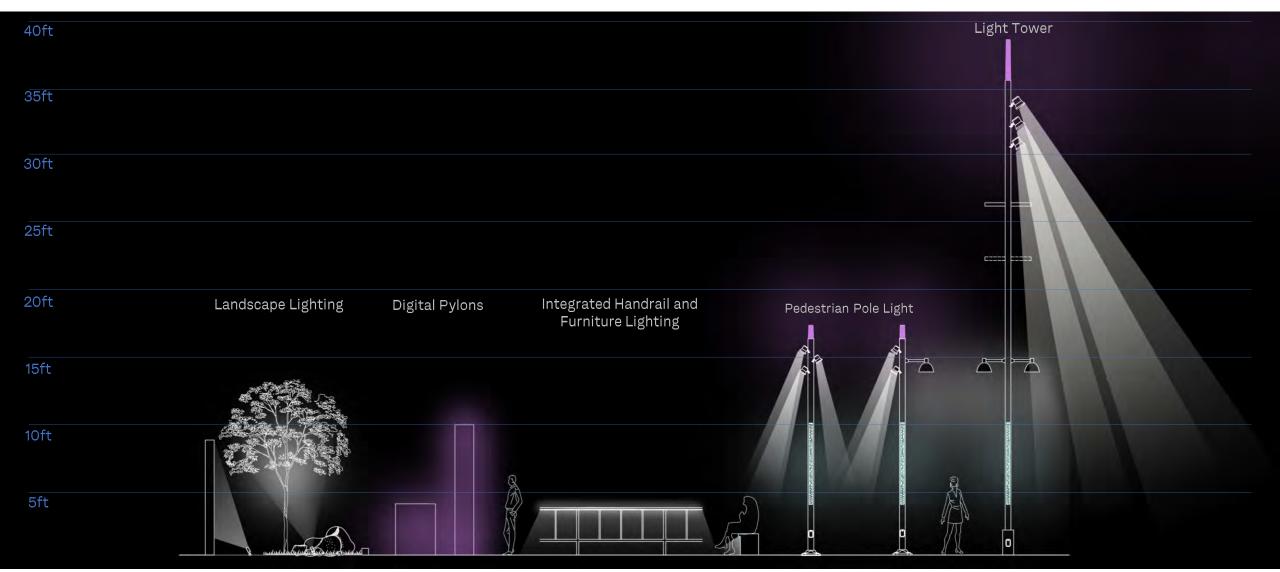
Refer to later section on lighting controls for more information.

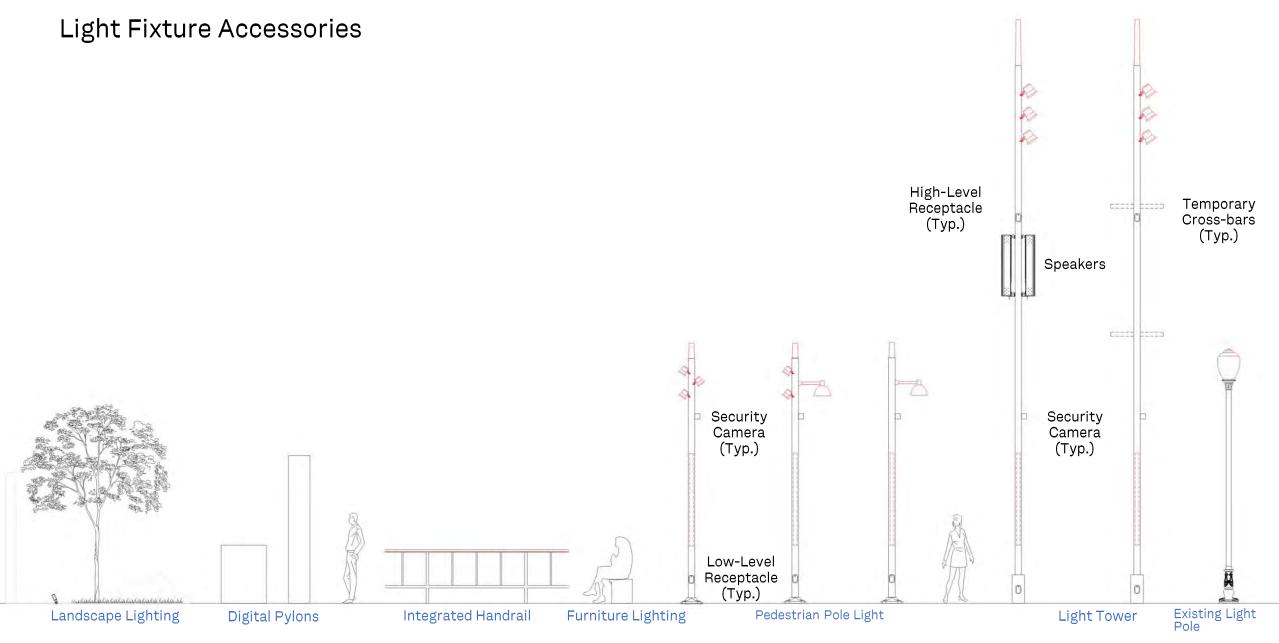




ARUP

Light Fixture Vocabulary



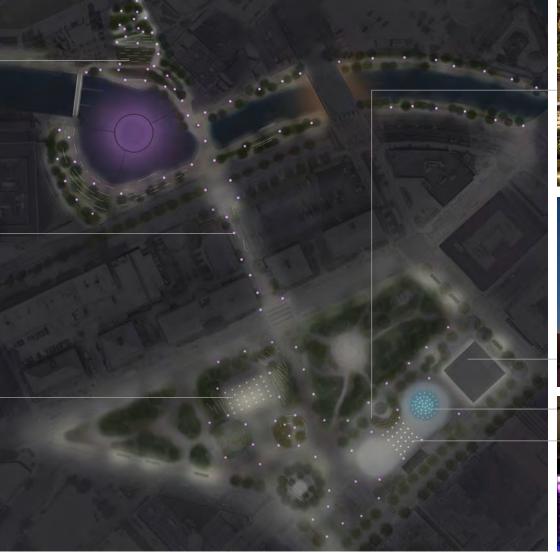


Site Lighting Plan Overview

















Kennedy Plaza: Signature District Light Element Locations

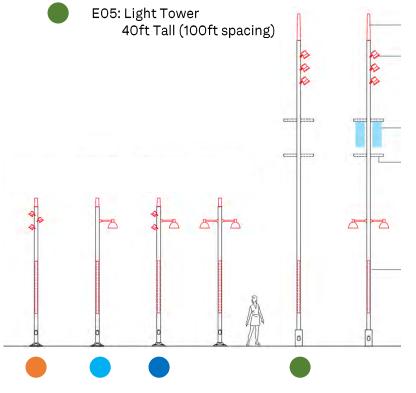


E01: Pedestrian Pole with Adjustable Flood Lights 15ft Tall (50-60ft spacing)

E02: Pedestrian Pole with a Pathway Luminaire 15ft Tall (65-70ft spacing)

E03: Pedestrian Pole with Pathway and Adjustable Floods

15ft Tall (65-70ft spacing)



ARUP STIMSON ULTRAMODERNE

Kennedy Plaza: Accent Lighting Overview









Tree Lighting



Pergola / Structure Lighting

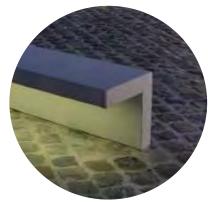


Monument Lighting



Bus Stop Lighting

ARUP



Integrated Furniture Lighting

Kennedy Plaza: Bus Stop Lighting







There will be 6
Existing Bus Stop
Structures that will
be relocated around
Greater Kennedy
Plaza. The new
locations are
indicated with red
circles. Bus stop
lighting to be
investigated further
as the design
progresses.

Kennedy Plaza: Tree Lighting







Tree Uplighting (E12 Type)

- Creates columns of light
- Accent texture and shape of tree
- Draws the eye up

At walkway areas



Alternate Approach: Tree Downlighting aka "Moonlighting"

- Creates dramatic effect
- Adds texture to ground
- Draws the eye down

At gathering areas

To be investigated further as the design progresses.

Kennedy Plaza: Integrated Furniture Lighting







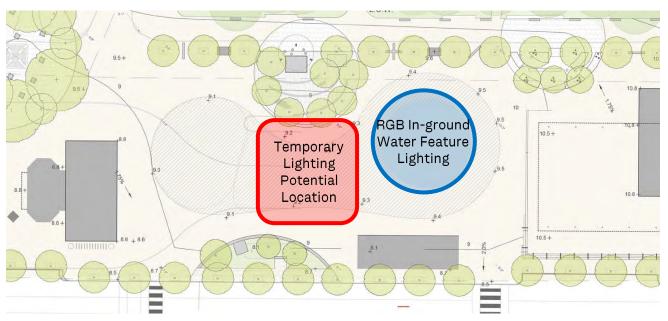






EO8 Type: Wet listed Tape Light

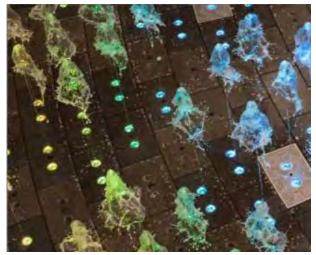
Kennedy Plaza: Splash Park / Ice Rink Lighting





Lighting applicable for both Water Feature and Ice Rink:

- RGB In-ground lighting within Island
- Technical Infrastructure for lighting of art installations, events, catenary lighting.





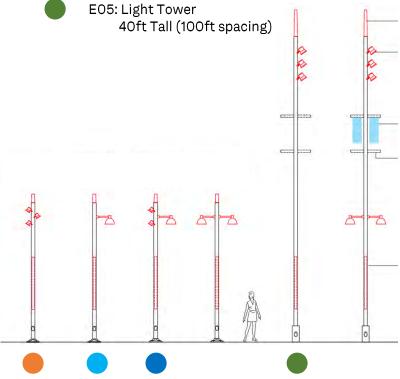


Waterplace Park Basin: Signature District Light Element Locations



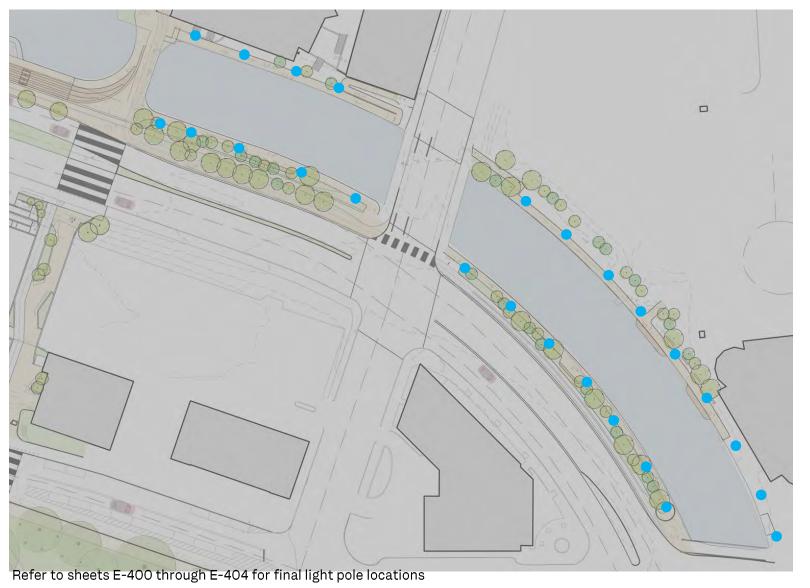
- E01: Pedestrian Pole with Adjustable Flood Lights
 15ft Tall (50-60ft spacing)
- E02: Pedestrian Pole with a Pathway Luminaire
 15ft Tall (65-70ft spacing)
- E03: Pedestrian Pole with Pathway and Adjustable Floods

15ft Tall (65-70ft spacing)



ARUP STIMSON ULTRAMODERNE

Riverwalk: Signature District Light Element Locations

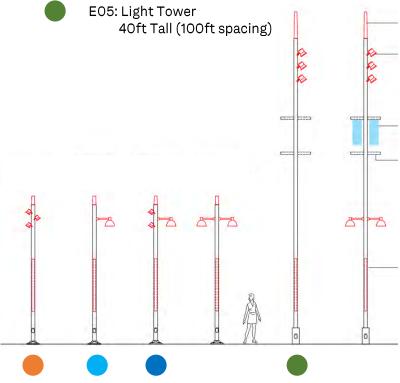


E01: Pedestrian Pole with Adjustable Flood Lights
15ft Tall (50-60ft spacing)

E02: Pedestrian Pole with a Pathway Luminaire 15ft Tall (65-70ft spacing)

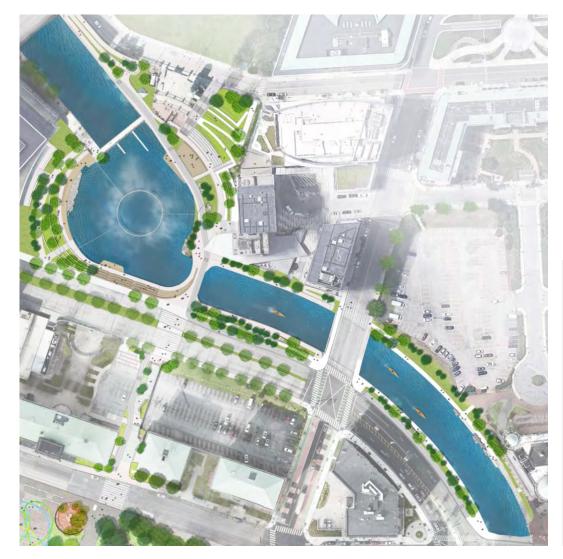
E03: Pedestrian Pole with Pathway and Adjustable Floods

15ft Tall (65-70ft spacing)



ARUP STIMSON ULTRAMODERNE

Waterplace Park Basin / Riverwalk: Accent Lighting Overview









Integrated Furniture Lighting Integrated Handrail Lighting

Mist Lighting

Accent Lighting Areas:

- 1. Mist Structure
- 2. Bridge Walkways
- 3. Amphitheater & Walkways

- Feature color-changing lighting for signature water structure using low- and high-level flood lights mounted at the Riverwalk and poles to reveal mist.
- Accent lighting at amphitheater seating.
- Integrated handrail lighting at Bridge walkways and overlook areas.
- Pedestrian Pole Lights for safe, evenly illuminated areas with soft uniform lighting.

Waterplace Park Basin/Riverwalk: Accent Lighting







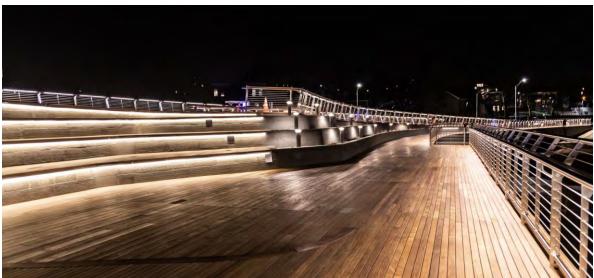
Accent Lighting Areas:

- 1. Mist Structure
- Bridge Walkways
- 3. Amphitheater & Walkways

- Feature color-changing lighting for signature water structure using low- and high-level flood lights mounted at the Riverwalk and poles to reveal mist.
- Promote thought and curiosity and create a signature identity that attracts visitors.

Community Lighting: Waterplace Park Basin/Riverwalk







Accent Lighting Areas:

- 1. Mist Structure
- 2. Bridge Walkways
- 3. Amphitheater & Walkways

- Accent lighting at amphitheater seating.
- Safe, evenly illuminated areas with soft uniform lighting.
- Integrated handrail lighting at Bridge walkways and overlook areas.

Community Lighting: Waterplace Park Basin/Riverwalk







Accent Lighting Areas:

- 1. Mist Structure
- 2. Bridge Walkways
- 3. Amphitheater & Walkways

- Accent lighting at amphitheater seating.
- Safe, evenly illuminated areas with soft uniform lighting.
- Integrated handrail lighting at Bridge walkways and overlook areas.

Connector Bridge: Lighting Overview

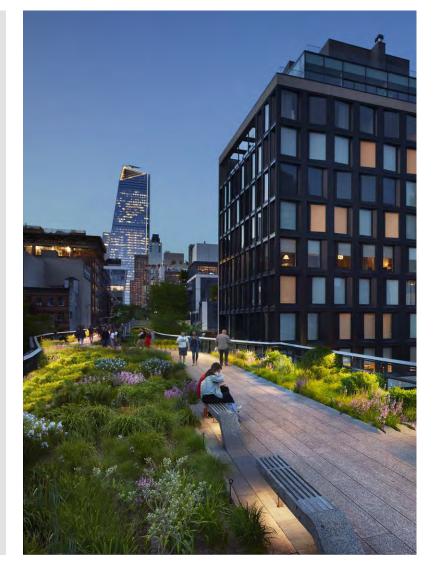


Refer to sheets E-400 through E-404 for final light pole locations 186

Fixture Types:

- E01: Pedestrian Pole with Adjustable Flood Lights 15ft Tall (50-60ft spacing)
- E08: Urban Furniture Lighting
- E11: Integrated Handrail Lighting
- E12: Tree Lighting

- Create a safe cycle and pedestrian routes to encourage activity with pedestrian poles.
- Create a visual and comfortable experience that attracts visitors by providing low-level integrated lighting at benches, handrail lights and tree uplights.



Lighting Design Criteria

The lighting for the site is required to achieve the following design criteria:

- Meet all necessary code requirements
- Provide a safe nighttime environment
- Provide moments of escape and enjoyment

The following section provides an overview of the specific design parameters necessary to meet the above stated goals. The lighting design criteria values were taken form the IES Lighting Handbook, 10th Edition, as well as other IESNA resources.

IESNA Recommended Practice Resources:

- IESNA G-1-16: Security Lighting
- IESNA RP-33-14: Exterior Lighting
- IESNA RP-8-14: Roadway Lighting
- IESNA RP-6-20: Lighting Sports & Recreational Areas

Description	Criteria	Reference
Mixed Vehicles and Pedestrian	1 FC (min) 2 FC (ave)	IESNA RP-8-14
Sidewalks & Footpaths	1.0 FC (min) 4:1 ave/min	IESNA Handbook 10 th Edition, Paths to Curb LZ3
Outdoor Stairs	2.0 FC (min) 3:1 ave/min	IESNA RP-33-14; IESNA Handbook 10 th Edition, Path to Curb High Activity LZ3
Public Plaza areas, Gathering likely	1.0 FC (min) 4:1 ave/min	IESNA G-1-16, Section 8.2.16
Facial Identification	0.5 – 0.8 FC (vertical) 4:1 ave/min	IESNA G-1-16, Table 1
Ice Skating Poles should be a min. 39ft tall	20FC @ 0ft (horizontal) 4:1 max/min	IESNA RP-6-20 Lighting Sports and Recreational Areas
Basketball 4-pole layout 25ft min.	20 FC @3ft (horizontal) 4:1 max/min	IESNA RP-6-20 Lighting Sports and Recreational Areas
Skate Parks Poles should be a min. 20ft min.	20FC @3ft (horizontal) 3:1 max/min	IESNA RP-6-20 Lighting Sports and Recreational Areas

Lighting Color Quality & Light Control

Light Color Quality Summary

Lighting Quality is a critical consideration in effective lighting design and energy savings. We recommend for the specification of LED light sources with:

- 80+ Color Rendering Index (CRI)
- White Light Color Temperature: 3000K
- RGB Color Feature for specific lighting elements

Lighting Control Summary

The project will include a "Smart Cities" solution.

Wireless lighting control will be provided to the light poles or to the cabinet as applicable. The project will be provided with a wireless web-based CMS (Central Management System). Establishing a wireless infrastructure network for the lighting control will provide a platform for hosting future smart IoT systems.

To help achieve energy reduction and differentiate the lighting needs throughout the year and seasons, we will provide dimmable lighting control. The lighting control system will be configured to dim the lighting or alter the color of accent lighting for special events such as the WaterFire, and when temporary event lighting is installed.

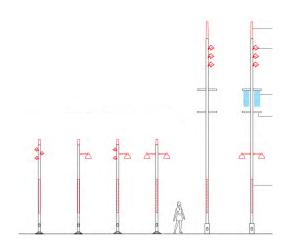
The CMS system will provide a graphical display of the new light fixtures and provide data reporting such as, fixture on/off status, energy consumption, maintenance schedule and functional status. This will provide the city with alerts when fixtures are faulty/damaged, confirmation that they are off during the day, when fixture maintenance is required and data on real time and annual energy consumption.

Temporary event lighting will operate independently and will be provided with power only.



Summary of Control Types

Individual Wireless



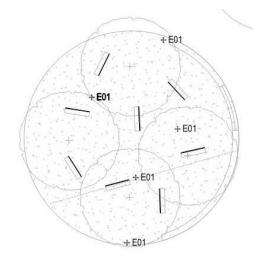
Fixture types E01 - E06

Pole fixtures will be fitted with a wireless "node" to provide smart digital lighting control for white light.

Fixtures provided with dimming + RGB color control.

Separate control of street/path lighting, integrated pole lighting and area flood lighting. DMX circuit for accent/RGB control.

Grouped Wireless



Fixture types E07 - E11

Accent light fixtures will connect to local lighting control panels, controlled in groups per area.

Fixtures provided with dimming control with remote drivers located at the electrical distribution panel.

Wireless control provided to the panel for centralized control.

Individual Wired



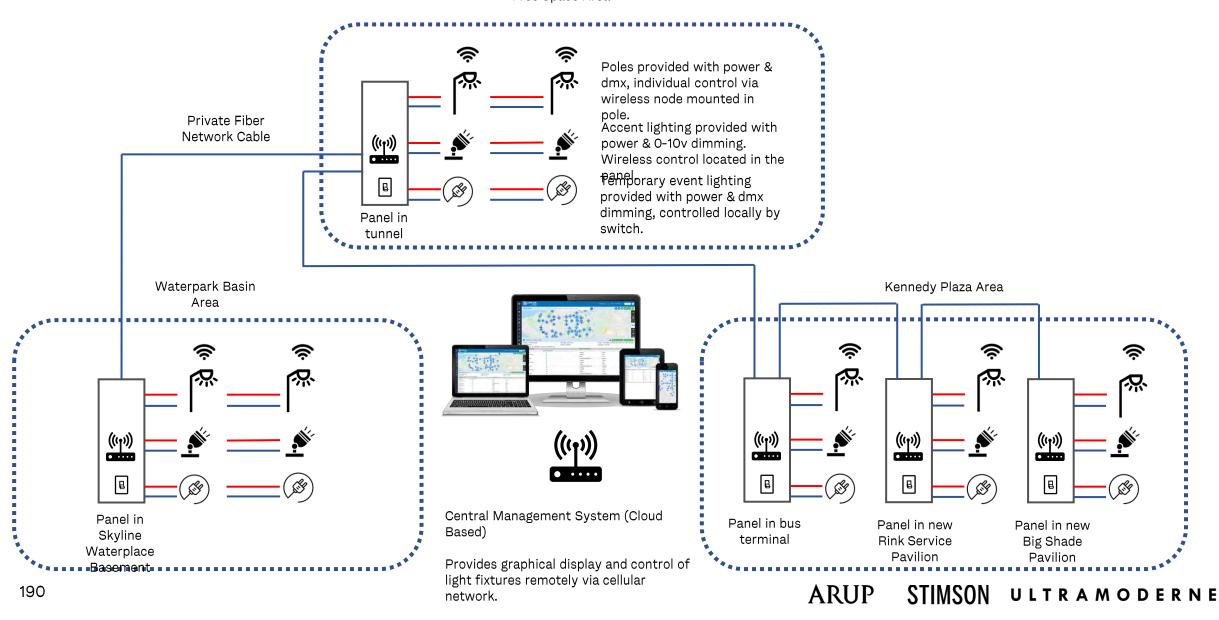
Temporary Event Lighting

Secured receptacles installed in bollards to provide 120V power and DMX dimming for temporary event lighting.

Local switches provided at the electrical distribution panel to allow control.

Lighting Control Strategy





Lighting Control Sequence of Operations

Fixture Type	Area	Control Zones	ON	Adjust	OFF	Sensors/Interfaces
E01 Pole with: Floodlights Decorative element	Free Space Area, Kennedy Plaza, Water place park	1 – Floodlights 2 – Decorative	Auto ON.	Dimming Set Points: Sunset: ON 100% Midnight: ON 50% Morning: ON 100% Sunrise: OFF Zone 2: Normal Scene: Blue light Event 1: Red Light Event 2: Green Light	Auto OFF.	Wireless CMS Node at pole. DMX control cable.
E02 / E04 Pole with: Street/Path light Decorative element	Baltimore Park, Burnside Park, Riverside Walk	1 – Streetlight 2 – Decorative	Auto ON.	Dimming Set Points: As E01	Auto OFF.	Wireless CMS Node at pole. DMX Control cable.
E03 Pole with: Street/Path light Floodlights Decorative element	Riverside Walk	1 – Streetlight2 – Floodlights3 – Decorative	Auto ON.	Dimming Set Points: As E01	Auto OFF.	Wireless CMS Node at pole. DMX Control cable.
E05 Tower with: Floodlights Decorative element	Kennedy Plaza	1 – Floodlights 2 – Decorative	Auto ON.	Dimming Set Points: As E01	Auto OFF.	Wireless CMS Node at pole. DMX Control cable.
E06 Tower with: Street light Floodlights Decorative element	Kennedy Plaza	1 – Streetlight2 – Floodlights3 – Decorative	Auto ON.	Dimming Set Points: As E01	Auto OFF.	Wireless CMS Node at pole. DMX Control cable.

Lighting Control Sequence of Operations

Fixture Type	Area	Control Zones	ON	Adjust	OFF	Sensors/Interfaces
E07 – Uplights	Kennedy Plaza / Island Zones	1 Zone per 10 fixtures.	Auto ON.	Dimming Set Points: Sunset: ON 100% Midnight: OFF	Auto OFF.	Wireless CMS control at panel.
E08 – Furniture tape light	Kennedy Plaza / Island Zones, Water place park	1 Zone per 40 linear feet.	Auto ON.	Dimming Set Points: Sunset: ON 100% Midnight: OFF	Auto OFF.	Wireless CMS control at panel.
E09 – Canopy Cylinders	Kennedy Plaza / Island zones	1 Zone per 10 fixtures.	Auto ON.	Dimming Set Points: Sunset: ON 100% Midnight: ON 50% Morning: ON 100% Sunrise: OFF	Auto OFF.	Wireless CMS control at panel.
E10 – Catenary Lighting	Kennedy Plaza / Ice rink / Island zones	1 Zone per 10 fixtures.	Auto ON.	Dimming Set Points: Sunset: ON 100% Midnight: ON 50% Morning: ON 100% Sunrise: OFF	Auto OFF.	Wireless CMS control at panel.
E11 – Handrail Lighting	Kennedy Plaza / Island zones, Water place park	1 Zone per 40 linear feet.	Auto ON.	Dimming Set Points: Sunset: ON 100% Midnight: ON 50% Morning: ON 100% Sunrise: OFF	Auto OFF.	Wireless CMS control at panel.
EXX – Temporary Lighting	Kennedy Plaza / Ice Rink / Big Shade, Water place park basin	Excluded	Manual ON.	Adjustment by others.	Manual OFF.	Local switch at panel. DMX Control cable.

Light Fixture Schedule

			Lighting	Fixture Schedule			
Tag	Description	Wattage	Manufacturer	Model	Voltage	Light Color	Notes
E01		19.2 W PER FLOODLIGHT	BEGA	77705	277 V	3000 K	PROVIDE WITH POLE P1.
E02	15' POST WITH (1) PATHWAY LUMINAIRE	57 W	LOUIS POULSEN	LP ICON MINI OPAL POST	277 V	3000 K	PROVIDE WITH POLE P1.
E03	1	19.2 W PER FLOODLIGHT / 57 W PER PATHWAY LUM.	BEGA / LOUIS POULSEN	77705 / LP ICON MINI OPAL POST	277 V	3000 K	PROVIDE WITH POLE P1.
E04	15' POST WITH (2) TWIN PATHWAY LUMINAIRES	57 W PER PATHWAY LUM.	LOUIS POULSEN	LP ICON MINI OPAL POST	277 V	3000 K	PROVIDE WITH POLE P1.
E05	40' POST WITH (4) ADJUSTABLE FLOOD LIGHTS	303 W PER FLOODLIGHT	BEGA	84 522	277 V	3000 K	PROVIDE WITH POLE P2.
E07	INGRADE RGBW UPLIGHT	35 W	B-K LIGHTING	HP2 COLOR TUNING	277 V	RGBW	
E08	TAPE LIGHT	4.3 W/FT	BEULUX	FLORENCE LED	277 V	3000 K	
E09	CYLINDER DOWNLIGHTS	21 W	B-K LIGHTING	CATSKILL INTEGRAL	277 V	3000 K	CYLINDER DOWNLIGHT INTEGRATED TO SHADE STRUCTURE AND PERGOLA.
E10	SURFACE MOUNTED LINEAR	7.6 W/FT	LEDLINEAR	ADONIS	277 V	3000 K	
E11	INTEGRATED HANDRAIL LIGHTING	2 W/FT	KLIK USA	LEDPOD 40	277 V	3000 K	
E12	INGRADE LED FIXTURE FOR TREE UPLIGHTING	3 W	TARGETTI	JUPITER MINI	277 V	3000 K	
E13	CATENARY CYLINDER LUMINAIRE	35.7 W	BEGA	84405	277 V	3000 K	
E14	LED PANEL CABLE MOUNT		GVA LIGHTING	HL-BLADE	277 V	RGBW	
E15	INGRADE FLOODLIGHT FOR STATUE LIGHTING	20 W	B-K LIGHTING	DENALI REMOTE	277 V	3000 K	CONTRACTOR TO PROVIDE REMOTE POWER SUPPLY AND COORDINATE ALL ACCESSORIES.
EA	EXISTING LIGHT POLE - ACORN STYLE	TBD	TBD	TBD	277 V	TBD	
EF	EXISTING LIGHT POLE WITH FLOOD LIGHTS	TBD	TBD	TBD	277 V	TBD	
EM	EXISTING LIGHT POLE - MARINE STYLE	TBD	TBD	TBD	277 V	TBD	
P1	15' CUSTOM POLE WITH INTEGRAL RGB FEATURE LIGHTING AND DMX CONTROL.	30 W	TECHNILUM	сиѕтом	277 ∨	RGB	CUSTOM POLE WITH RGB BEACON LIGHT AT TOP OF POLE AND DECORATIVE PERFORATED PATTERN WITH INTERNAL LIGHT MID SECTION. PROVIDE WITH MOUNTING HARDWARE FOR THEATRICAL LIGHTING EQUIPMENT MOUNTING. PROVIDE POWER AND CONNECTION FOR AV, SECUIRTY, AND OTHER ACCESSORIES AS REQUIRED.
P2	40' CUSTOM POST	50 W	TECHNILUM	сиѕтом	277 ∨	RGB	CUSTOM POLE WITH RGB BEACON LIGHT AT TOP OF POLE AND DECORATIVE PERFORATED PATTERN WITH INTERNAL LIGHT MID SECTION. PROVIDE WITH MOUNTING HARDWARE FOR THEATRICAL LIGHTING EQUIPMENT MOUNTING. PROVIDE POWER AND CONNECTION FOR AV, SECUIRTY, AND OTHER ACCES:

Water Feature



Interactive Mode





Choreography Storyboard 01
Interactive Mode



Choreography Storyboard 02
Interactive Mode



Choreography Storyboard 03
Interactive Mode



Choreography Storyboard 04
Interactive Mode



Choreography Storyboard 05

Nighttime Interactive Mode



Choreography Storyboard 06

Performance Mode Option

Due to safety concerns produced by the taller heights of the jets in performance mode people are required to be clear of the water feature area prior to showtime. This is typically achieved with a public announcement. An attendant will operate a "deadman switch." Releasing the button of this device will turn off the feature if someone were to enter it during a performance.

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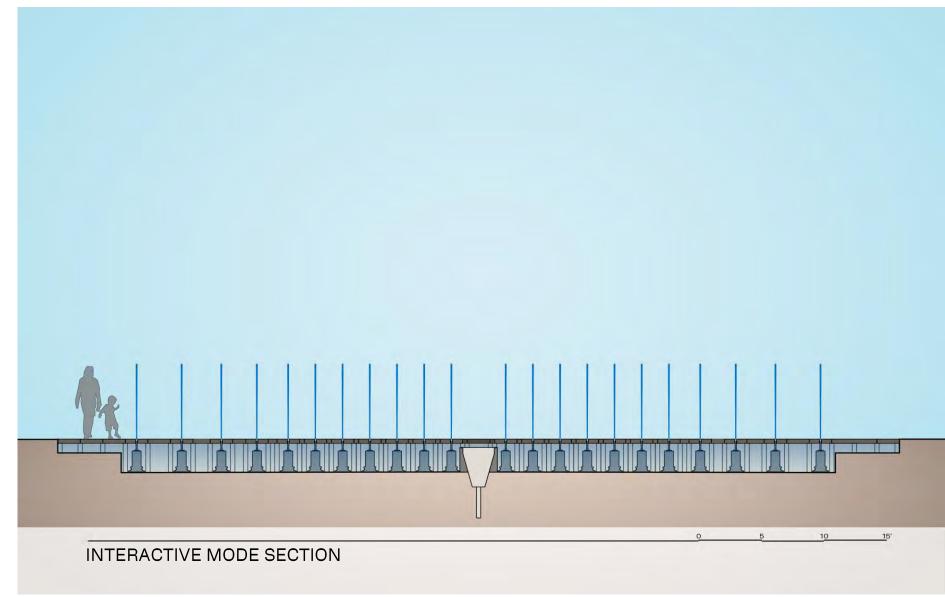
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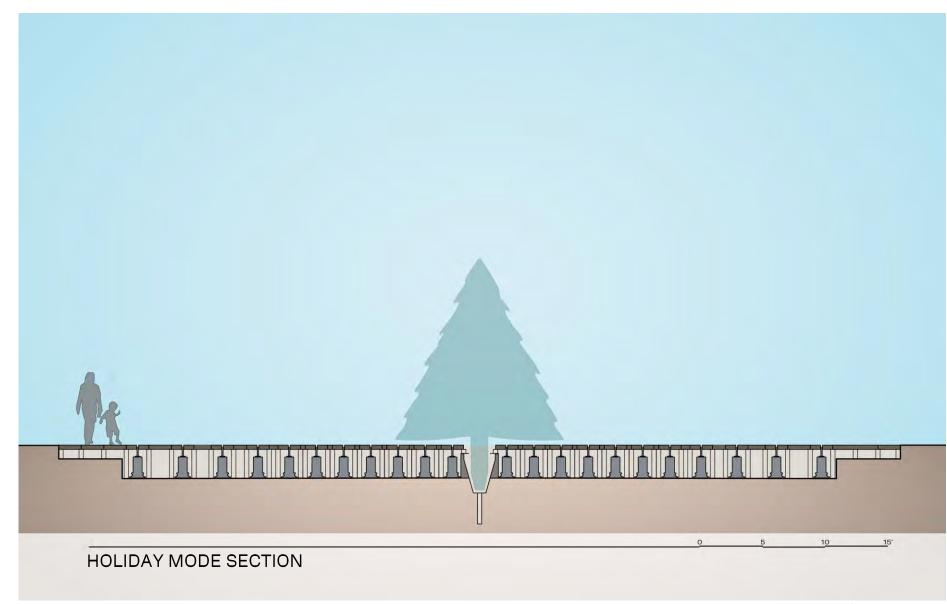
KENNEDY PLAZA WATER FEATURE



Choreography Storyboard 07

Nighttime Performance Mode Option







PROVIDENCE UNIFIED VISION WATER FEATURES

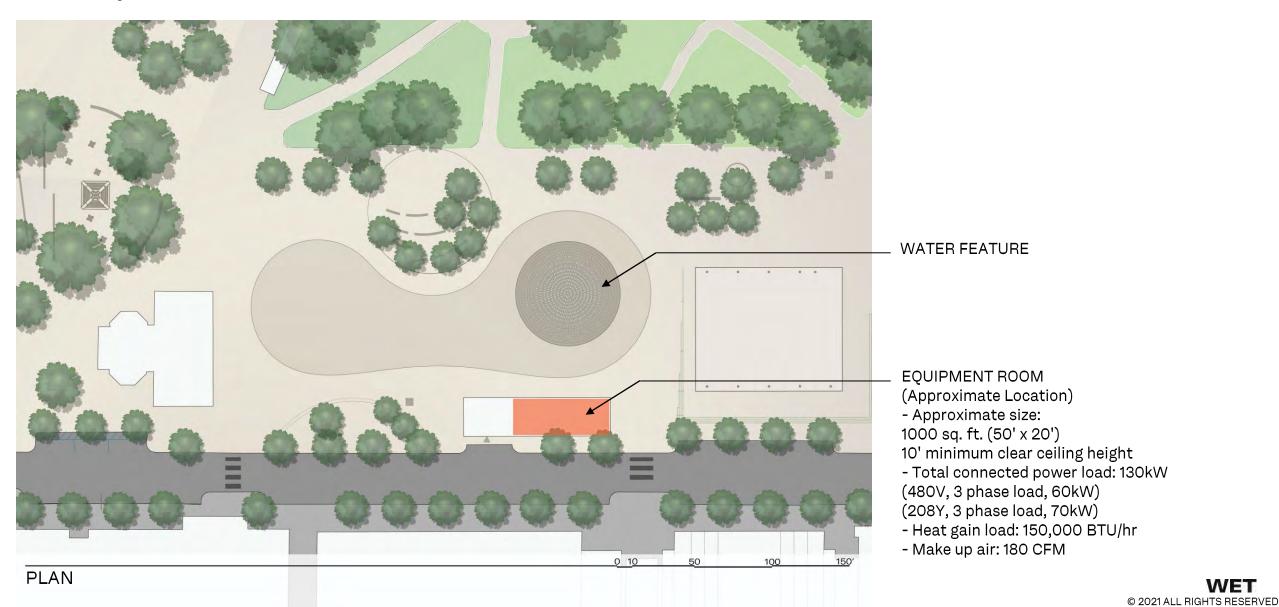
PRELIMINARY FACILITY IMPACT REPORT (Revision 1)

WET® 10847 SHERMAN WAY, SUN VALLEY, CALIFORNIA 91352

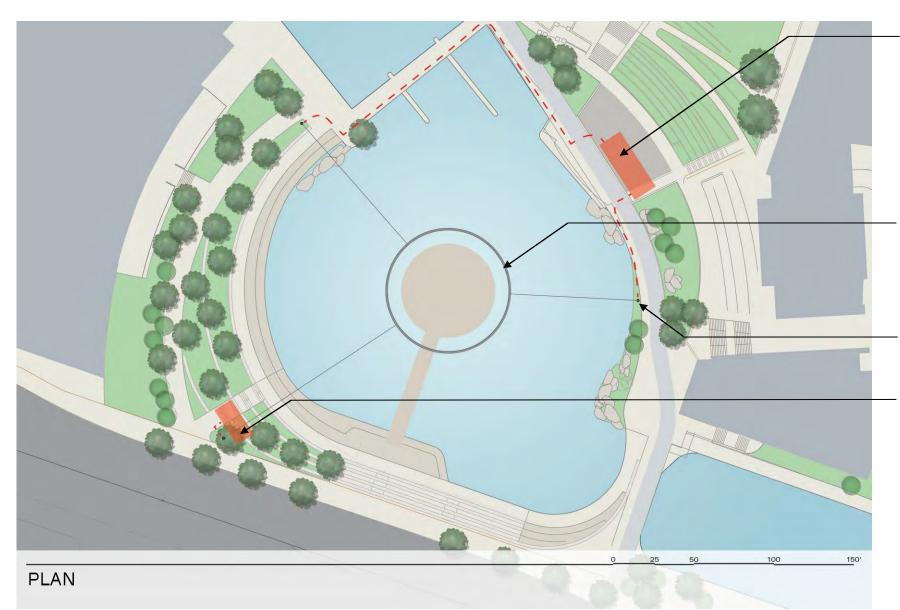
May 28, 2021

PROVIDENCE UNIFIED VISION WATER FEATURES - PRELIMINARY FACILITY IMPACT REPORT

The following information is provided for preliminary identification of the scope of services required to provide the facilities and installation for the water feature concepts at the Providence Unified Vision Project. This information should not be construed as the complete and final WET and project scope or used for construction, as it will be subject to change during the forthcoming design and engineering phases. Please refer to the following water feature plans, estimated electrical loads, HVAC information, and information for the estimated equipment room space required for these feature concepts.



WET



EQUIPMENT ROOM 1 (Approximate Location)

- Approximate size: 500 sq. ft. (40' x 12.5')

10' minimum clear ceiling height

- Total connected power load: 120kW (480V, 3 phase load, 60kW) (208Y, 3 phase load, 60kW)

- Heat gain load: 63,000BTU/hr

SUSPENDED FOG RING

Approximate size: 80-foot overall diameter18-inch diameter tube

- Approximate weight: 4000 lbs MAST LOCATION (3 total)

EQUIPMENT ROOM 2 (Approximate Location)

- Approximate size: 250 sq. ft. (25' x 10') 10' minimum clear ceili

10' minimum clear ceiling height

- Total connected power load: 40kW (480V, 3 phase load, 30kW) (208Y, 3 phase load, 10kW)

- Heat gain load: 21,000BTU/hr

PROVIDENCE UNIFIED VISION WATER FEATURES - PRELIMINARY FACILITY IMPACT REPORT

1 EQUIPMENT ROOM GENERAL REQUIREMENTS

- 1.1 The equipment rooms shall be located near or below the water feature areas, so that the total wire length distance from the electrical control panels to the water feature electrical equipment is as minimal as possible. (See diagrams for proposed sizes and locations.)
- 1.2 If the equipment room cannot be located beneath the water features, the equipment room finish floor elevation shall be at least 3-feet below the lowermost water level in the water feature for proper gravity-fed flooded pump operation.
- 1.3 The equipment room shall have a minimum clear ceiling height of 10-feet to allow for equipment clearance and overhead piping.
- 1.4 Regular maintenance access is required for the water feature equipment. A standard double door entryway is preferred for this access. If a manhole/manway hatch is preferred for top entry, a minimum 5-foot by 5-foot opening shall be provided with a suitable spring-loaded watertight hatch and safety ladder.
- 1.5 During construction, a temporary opening to the equipment room shall be provided to install large equipment such as electrical control enclosures, pumps, air compressors, air receiver vessels, water tanks, etc. After installation, the opening may be capped and finished as required. 1.5.1 It is estimated that a clear space of 10-feet long by 6-feet wide by 8-feet high shall be observed for the installation of large equipment. The weight of this equipment may be up to 3000-lbs.
- 1.5.2 NOTE: Large equipment removal after installation is typically unnecessary. Given the size of the recommended maintenance opening, this equipment will be specified in a manner allowing repair on site if required. However, should the need arise, access to the large temporary opening shall be allowed in the unlikely case of large equipment failure, and for potential future expansion.
- 1.6 The area required for HVAC equipment, power distribution equipment other than that provided by WET, and other systems not designed or furnished by WET have not been included in the requirements listed herein.
- 1.7 The equipment rooms shall incorporate all the necessary fire and life safety requirements as dictated by the local codes, including but not limited to egress, fire suppression, fire alarm and ventilation requirements. This is not in WET's scope, however WET will assist your local consultants in determining the appropriate level of facility protection.
- 1.7.1 NOTE: The water feature equipment room is not considered an occupied space. Maintenance staff will need to access the equipment room on a regular basis, however it is not intended to be classified as a continuously occupied room.

2 EQUIPMENT ROOM ELECTRICAL SERVICES

- 2.1 The water feature equipment will be specified and built to operate using 120/208-volt, threephase, four-wire (wye connected), 60 Hz, and 480-volt, three-phase, 60 Hz. If the available facility power system is otherwise, please advise WET to ensure water feature equipment compatibility.
- 2.1.1 The 120/208-volt service will be required for specialty water feature underwater equipment (This equipment is GFCI protected.).

- 2.1.2 The 480-volt service may be used for larger 3-phase loads such as pumps and compressors.
- 2.1.3 Step-down transformers may be required for 208Y power supply and shall be provided by the installation electrical contractor (as specified by your consultants with WET's advisement) if not already provided within the facilities.
- 2.2 The power feeder equipment and electrical distribution engineering required to provide power from the facility to the WET control panels is not provided by WET, however WET will work with your local consultants on this system.
- 2.3 The WET control panels will function as a power subsystem, and provide power distribution to the feature pumps and most water feature equipment in the equipment rooms and feature basins (to be indicated in the WET Engineering documents). This equipment will include ground fault (earth leakage) protection that conforms to the National Electric Code (NEC), IEC, and all applicable local codes for personnel protection.
- 2.4 Power for very large 3-phase loads may be fed directly from the facility electrical distribution panels that shall be provided by others.
- 2.5 Equipment room lighting, HVAC, sump pumps, service outlets and other miscellaneous electrical requirements are not powered from the WET electrical control system, which is only dedicated to providing power to the WET specialty equipment.
- 2.6 Small electrical outlet panels will be permanently mounted near the feature for use by WET personnel for programming and choreography, and for any future reprogramming that may be required. These panels are designed to be installed in a standard outdoor-rated box, and will require two dedicated conduits each from the equipment room in order to separate the power and data connections.
- 2.7 A permanent operating phone line capable of calls to the WET offices shall be provided in each equipment room for use during commissioning. An Internet service connection shall also be provided in order for WET to remotely monitor and diagnose the WET control system if any issues arise. A dedicated static IP address is required for this connection.
- 2.8 After commissioning, the phone line shall be connected to the provided modem to be used as a backup in the event of Internet connection failure.
- 2.9 Dry contact (volt-free) signals will be provided by the WET control system as a general alarm output. It is recommended that these contacts be wired to the building management system (BMS) or other staffed monitoring station for remote indication that the feature requires attention.
- 2.10 The equipment rooms shall be provided with lighting, electrical receptacles, and other maintenance provisions necessary for normal maintenance activities.
- 2.11 Electrical conductors shall be building wire, THHN in conduits (or approved local equivalent), and cables rated for prolonged submersion in the water feature basins, and/or as specified by WET.
- 2.12 Electrical standards such as wire sizes and conduit requirements will be based on the National Electric Code (NEC), International Standards (IEC) and all applicable local codes. The more stringent code shall apply should there be any conflicting standards.

PROVIDENCE UNIFIED VISION WATER FEATURES - PRELIMINARY FACILITY IMPACT REPORT

3 EQUIPMENT ROOM MECHANICAL SERVICES

- 3.1 The equipment rooms shall be equipped with floor drains or sumps to receive miscellaneous service drain lines from the water feature equipment and serve as the low point drainage for water feature servicing.
- 3.2 The equipment rooms will require a 2-inch connection to the domestic water supply, delivered at a minimum pressure of 40-psig. A reduced-pressure principle (RPP or RPZ) backflow preventer, or other system meeting local regulatory requirements, shall be provided for protection of the domestic water system.
- 3.3 The domestic water supply quality must be that of potable water supply from the facility services. If the water source for initial water feature filling and top off is from a source other than the potable domestic water supply, a water quality report will be required for proper treatment design.
- 3.4 Å suitable connection to the facility sewer shall be provided for receiving the backwash effluent from the feature sand filters. The filter backwash flow may be up to 240 gallons per minute for a maximum duration of 5 minutes. The backwash effluent will contain chemicals and will be heavily loaded with debris collected in the filters.
- 3.5 A maximum average temperature of 80°F and relative humidity of no greater than 70%, non-drip shall be maintained. The equipment room temperature shall not fall below 40 °F.
- 3.6 HVAC system design is not included in the WET scope of work, however WET will work with your local consultants to provide the most efficient system.
- 3.7 Large air conditioning loads required to accommodate the substantial heat gain caused by the air compressor can be mitigated with a water-cooled system where the building/site infrastructure allows.
- 3.7.1 NOTE: Air cooled air compressors must have exhaust ducting installed to route the hot air outside the equipment room.

4 WATER FEATURE EQUIPMENT

- 4.1 WET will provide the equipment listed as WET-provided in the construction documents, typically including: design elements, fountain jets, pumps, lights, animation and control system, and fog/mist devices where applicable.
- 4.2 Others shall supply all other equipment and materials necessary to complete the water feature installations as indicated in the construction documents and specifications.
- 4.3 A designated contractor shall install all the water feature equipment whether provided by WET or by others. Some specialty equipment may require final assembly and adjustment by WET and will be documented as such in forthcoming engineering document submissions.
- 4.4 The water feature equipment will require 2-1/2-feet of water depth in the Kennedy Plaza feature.
- 4.5 The structural loading for the water feature basin areas should be approximately 120psf.

5 INTERCONNECTING PIPING AND WIRING

- 5.1 The designated installation contractor shall run piping, conduit, and wiring from the water feature equipment located in the feature equipment room to the water feature basin and basin equipment.
- 5.2 Certain WET supplied equipment will include specialty cable leads, hoses, tubing, and other specialty materials for connection by the contractor. The installation details for this equipment will be indicated in the engineering document submissions.
- 5.3 The piping and wiring materials shall be provided as specified by WET in the construction documents based on the applicable service type and location of the service installation.

6 NOT INCLUDED IN WET'S SCOPE OF SUPPLY

- 6.1 The WET supply exclusions listed below are related to this water feature concept:
- 6.1.1 Construction materials, such as piping, fittings, electrical supply panels, air storage tanks, cables, equipment room lighting, ventilation, conduit and wiring or other equipment required for the completion of the fountains which are not listed as supplied by WET.
- 6.1.2 Stonework or other architectural elements.
- 6.1.3 Installation of equipment, WET-supplied or otherwise.
- 6.1.4 Structural masts and cable hoist equipment.
- 6.1.5 Sales tax, VAT, or any other applicable taxes, duties, customs or import fees.















Fog Sequence 04

With WaterFire











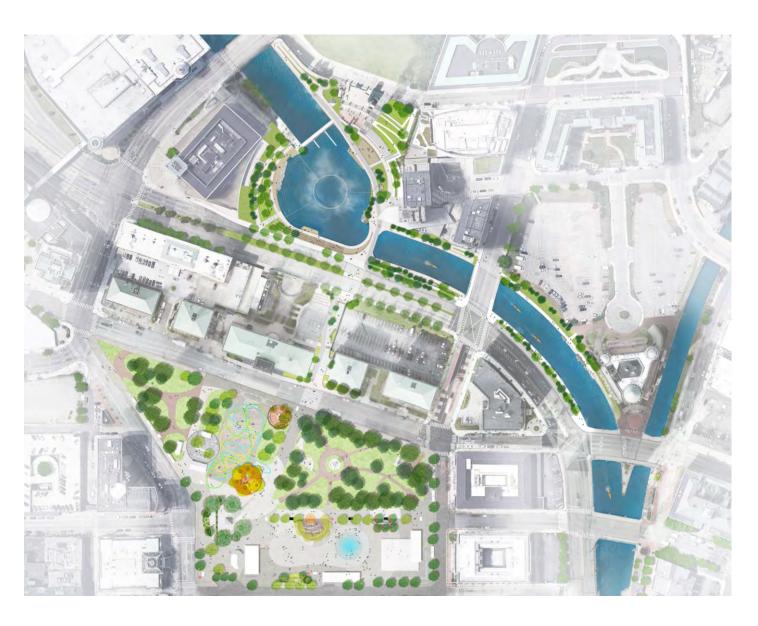


Security

Security

Re-imaging security at the Providence City Center looks to integrate basic principals Crime Prevention Through Environmental Design (CPTED) into the fabric of the space. Through lighting, sight lines and activation of spaces to encourage use, the area will increase the sense of community and encourage taking ownership to maintain a safe and secure place. The enhancements with respect to lighting, sight lines and space activation are all captured in their respective sections. It is the intent of this security section to address the two primary security focused enhancements:

- Hostile Vehicle Mitigation
- Video Surveillance



Hostile Vehicle Mitigation



The activation of spaces provides a significant benefit to the overall security of the site, utilizing a main principal of CPTED of activity support. Unfortunately, gathering of people in a public space that is accessible by a vehicle has been taken advantage of by a threat actor.

The use of a vehicle as a weapon (VAW) is a low complexity methodology and has been used by threat actors to target crowded places. A broad range of vehicles can cause significant loss of life and serious injury.

Attacks using vehicle as a weapon requires little or no training thus are within the capability of most individuals.

To combat a VAW threat, use of hostile vehicle mitigation measures such as bollards, knee walls, trees, etc. are used. These measures, integrated into the overall site layout enhances the safety and security for people using these spaces.

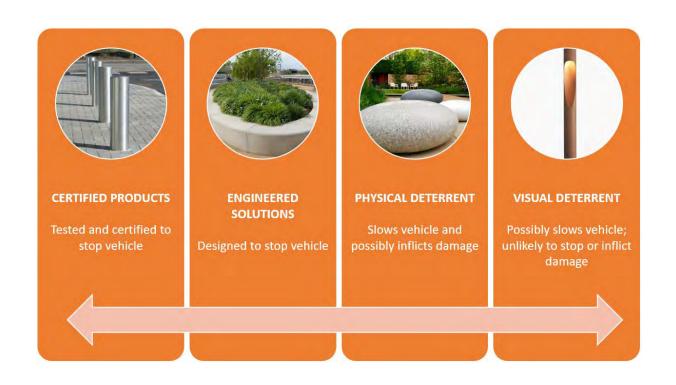
Hostile Vehicle Mitigation

The project has numerous locations that are susceptible to a vehicle as a weapon attack. These areas consist of any location directly adjacent to a roadway and where a clear plaza and park entry has been defined or where large areas that are programmed for events or informal gatherings occur. In order to mitigate this risk, the implementation of hostile vehicle mitigations have been integrated into the project.

The mitigation restrict direct access and visually deter indirect access from hostile vehicles onto the plaza and park areas. Larger gathering places for people (e.g. plazas) should have rated protection from a hostile vehicle attack. There are various forms mitigations have taken based on the vehicle approach; however, the intent and effectiveness of an anti-ram protection measure will vary.

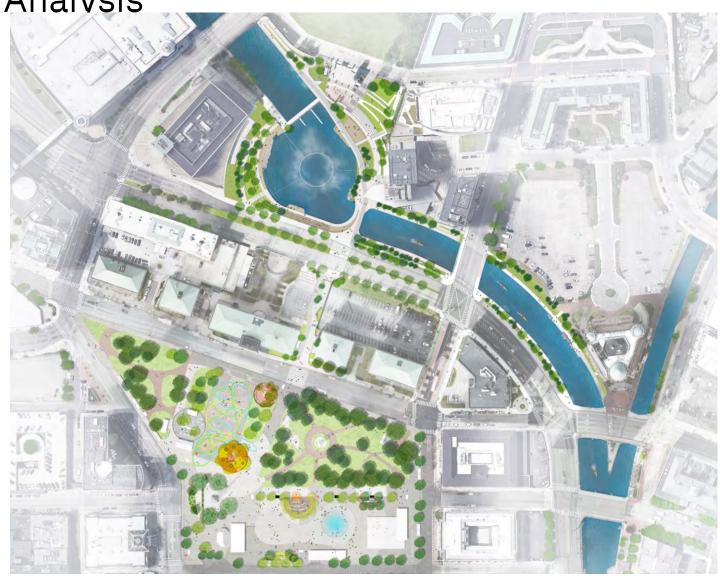
Key areas have been evaluated to determine the maximum achievable speed and approach angle at impact in reference to ASTM F2656 to establish performance requirements of the hostile vehicle mitigation (HVM).

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General Notes for the HVM Analysis

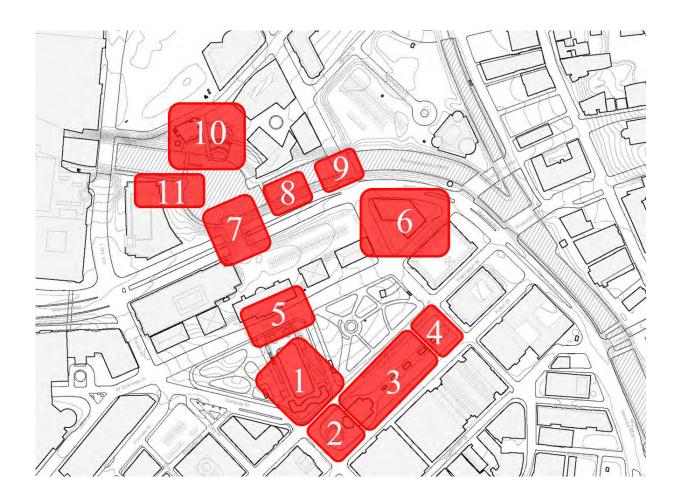
- Access to the riverside walk is naturally limited by elevation changes between it and the adjacent roadways. There are opportunities to mitigate threats at key entry and exit points rather than along the whole length of the walk.
- Threat vehicle approach paths that involve
 the threat vehicle breaking through the
 barrier between Memorial Boulevard road and
 the walkway have been included. The scenario
 considered is that of a threat vehicle
 intentionally crashing through the barrier with
 the aim of landing on the event space below.
 While potentially unattractive as a threat
 vector, it is plausible. Additionally, it is
 plausible when considering general road
 traffic incidents and the potential for errant
 drivers (e.g. DUI or medical episodes).
- Conservative assumptions have been used throughout the VDA calculations that are consistent with methodologies outlined in the relevant standards by government bodies (UFC, CPNI). In particular, it is assumed that non impact-rated elements do not stop or mitigate the vehicle.



Baseline HVM Analysis

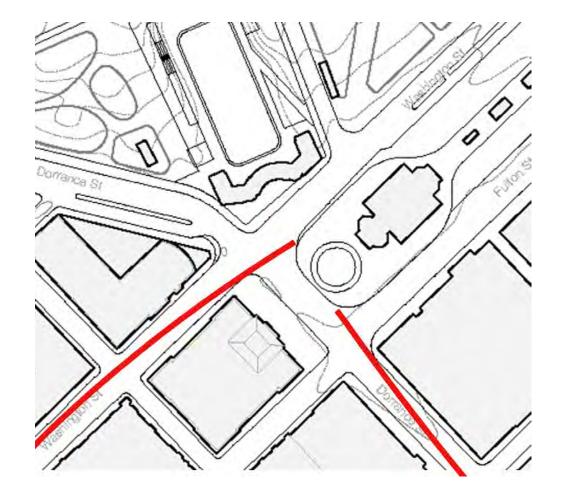
To establish recommended performance ratings of hostile vehicle mitigations, a baseline analysis had to be conducted for key area to identify the maximum achievable speed and approach angle of a vehicle.

The analysis was conducted by creating key "study areas" to analyzed. A total of eleven (11) study areas were developed and analyzed.

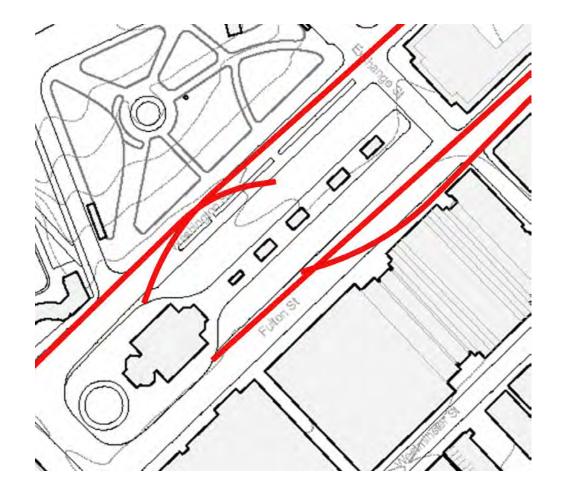




Route	Vehicle Type	Vehicle Type (lbs)	Impact Speed (kph)	Impact Speed (mph)	Impact Energy (kJ)	Approx ASTM Rating
	M1	3300	128.07	79.6	948	M40
A	N1G	5500	100.29	62.3	969	M40
A	N1	7700	95.45	59.3	1229	M50
	N2	15000	83.5	51.9	1832	M50*
	M1	3300	118.56	73.7	812	PU60/M40
В	N1G	5500	99	61.5	944	M40
l b	N1	7700	93.19	57.9	1171	M50
	N2	15000	81.56	50.7	1747	M50*
	M1	3300	47.45	29.5	130	C40/PU40/M30
\bigcup_{C}	N1G	5500	41	25.5	162	C40/PU40/M30
	N1	7700	44.98	27.9	273	C60/PU40/M30
	N2	15000	42.02	26.1	464	PU50/M30



Route	Vehicle Type	Vehicle Type (lbs)	Impact Speed (kph)	Impact Speed (mph)	Impact Energy (kJ)	Approx ASTM Rating
	M1	3300	119.11	74.0	820	PU60/M40
D	N1G	5500	99.32	61.7	950	M40
D	N1	7700	93.51	58.1	1179	M50
	N2	15000	81.88	50.9	1761	M50*
	M1	3300	128.07	79.6	948	M40
Б	N1G	5500	100.29	62.3	969	M40
Е	N1	7700	95.45	59.3	1229	M50
	N2	15000	83.5	51.9	1832	M50*



Route	Vehicle Type	Vehicle Type (lbs)	Impact Speed (kph)	Impact Speed (mph)	Impact Energy (kJ)	Approx ASTM Rating
	M1	3300	97.51	60.6	549	PU50/M30
F	N1G	5500	84.3	52.4	684	PU60/M40
Γ	N1	7700	92.54	57.5	1155	M50
	N2	15000	81.07	50.4	1726	M50*
	M1	3300	75.49	46.9	329	C60/PU40/M30
G	N1G	5500	64.84	40.3	405	C60/PU50/M30
u	N1	7700	71.29	44.3	685	PU60/M40
	N2	15000	66.31	41.2	1155	M50
	M1	3300	100.16	62.2	580	PU60/M30
Н	N1G	5500	80.69	50.1	627	PU60/M30
п	N1	7700	77.89	48.4	818	PU60/M40
	N2	15000	68.31	42.4	1226	M50
	M1	3300	93.56	58.1	506	PU50/M30
	N1G	5500	76.23	47.4	560	PU50/M30
I	N1	7700	74.73	46.4	753	PU60/M40
	N2	15000	66.83	41.5	1173	M50



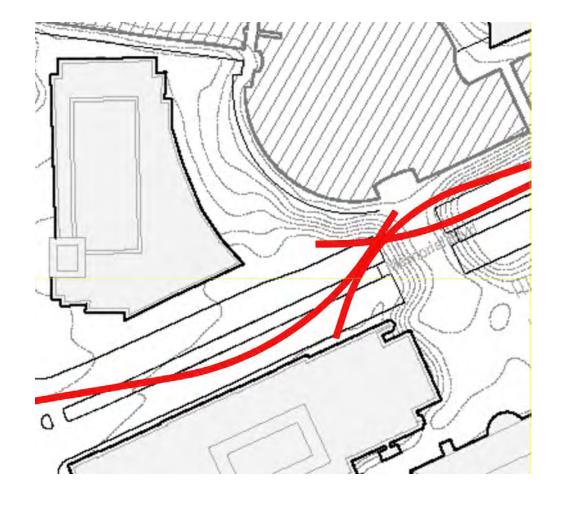
Route	Vehicle Type	Vehicle Type (lbs)	Impact Speed (kph)	Impact Speed (mph)	Impact Energy (kJ)	Approx ASTM Rating
	M1	3300	118.31	73.5	809	PU60/M40
J	N1G	5500	95.29	59.2	875	PU60/M40
J	N1	7700	92.86	57.7	1163	M50
	N2	15000	81.4	50.6	1741	M50*
	M1	3300	85.64	53.2	424	C60/PU50/M30
ν	N1G	5500	73.06	45.4	514	PU50/M30
K	N1	7700	74.26	46.1	744	PU60/M40
	N2	15000	67.38	41.9	1193	M50



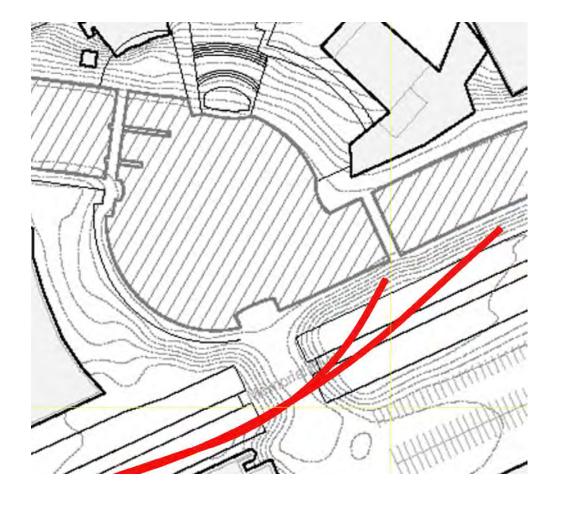
Route	Vehicle Type	Vehicle Type (lbs)	Impact Speed (kph)	Impact Speed (mph)	Impact Energy (kJ)	Approx ASTM Rating
	M1	3300	118.51	73.6	812	PU60/M40
L	N1G	5500	99	61.5	944	M40
L	N1	7700	93.19	57.9	1171	M50
	N2	15000	81.56	50.7	1747	M50*
	M1	3300	68.44	42.5	271	C50/PU40/M30
M	N1G	5500	58.82	36.5	333	C60/PU40/M30
1V1	N1	7700	64.65	40.2	564	PU50/M30
	N2	15000	60.05	37.3	947	M40
	M1	3300	61.77	38.4	221	C50/PU40/M30
N.T	N1G	5500	53.17	33.0	272	C60/PU40/M30
N	N1	7700	57.99	36.0	453	PU50/M30
	N2	15000	53.96	33.5	765	PU60/M40



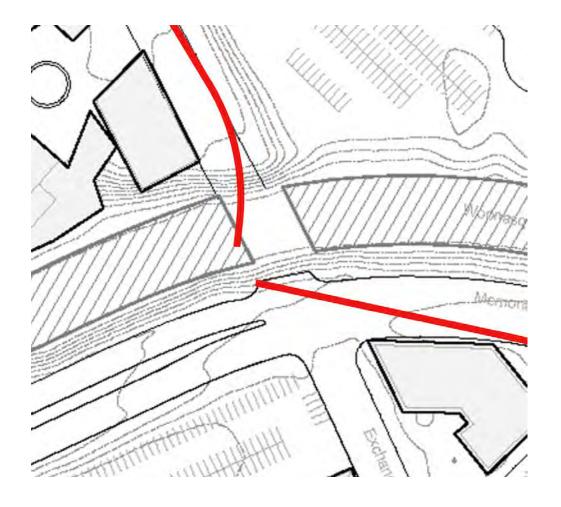
Route	Vehicle Type	Vehicle Type (lbs)	Impact Speed (kph)	Impact Speed (mph)	Impact Energy (kJ)	Approx ASTM Rating
	M1	3300	118.99	73.9	818	PU60/M40
0	N1G	5500	99.16	61.6	947	M40
	N1	7700	93.35	58.0	1175	M50
	N2	15000	81.72	50.8	1754	M50*
	M1	3300	118.56	73.7	812	PU60/M40
l P	N1G	5500	99.16	61.6	947	M40
ľ	N1	7700	93.35	58.0	1175	M50
	N2	15000	81.72	50.8	1754	M50*
	M1	3300	101.97	63.4	601	PU60/M30
	N1G	5500	86.87	54.0	727	PU60/M40
Q	N1	7700	94.32	58.6	1200	M50
	N2	15000	82.69	51.4	1796	M50*



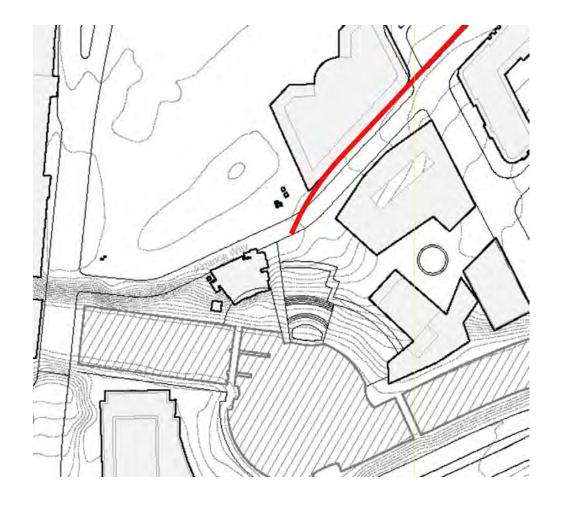
Route	Vehicle Type	Vehicle Type (lbs)	Impact Speed (kph)	Impact Speed (mph)	Impact Energy (kJ)	Approx ASTM Rating
	M1	3300	96.61	60.0	539	PU50/M30
R	N1G	5500	83.43	51.8	670	PU60/M40
K	N1	7700	91.33	56.7	1125	M50
	N2	15000	81.56	50.7	1747	M50*
	M1	3300	92.65	57.6	496	PU50/M30
S	N1G	5500	75.71	47.0	552	PU50/M30
3	N1	7700	75	46.6	759	PU60/M40
	N2	15000	67.54	42.0	1198	M50
	M1	3300	78.3	48.7	354	C60/PU40/M30
т	N1G	5500	67.28	41.8	436	PU50/M30
T	N1	7700	73.76	45.8	734	PU60/M40
	N2	15000	68.82	42.8	1244	M50



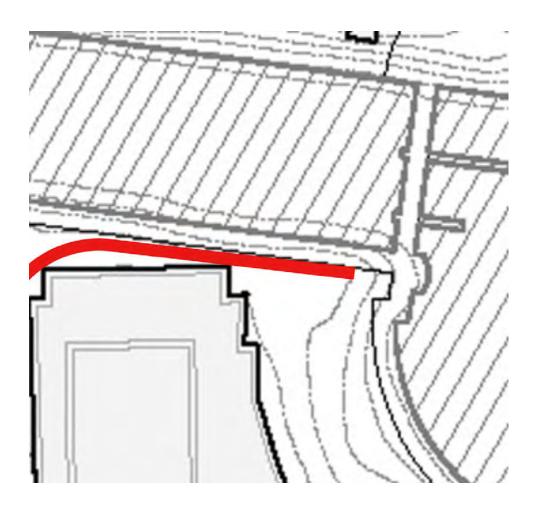
Route	Vehicle Type	Vehicle Type (lbs)	Impact Speed (kph)	Impact Speed (mph)	Impact Energy (kJ)	Approx ASTM Rating
	M1	3300	95.37	59.3	526	PU50/M30
U	N1G	5500	82.09	51.0	649	PU60/M30
	N1	7700	90.38	56.2	1101	M40
	N2	15000	81.4	50.6	1741	M50*
	M1	3300	121.29	75.4	850	PU60/M40
W	N1G	5500	100.29	62.3	969	M40
V	N1	7700	94.8	58.9	1212	M50
	N2	15000	83.01	51.6	1810	M50*



Route	Vehicle Type	Vehicle Type (lbs)	Impact Speed (kph)	Impact Speed (mph)	Impact Energy (kJ)	Approx ASTM Rating
	M1	3300	126.29	78.5	922	M40
W	N1G	5500	100.29	62.3	969	M40
VV	N1	7700	95.45	59.3	1229	M50
	N2	15000	83.5	51.9	1832	M50*
	M1	3300	83.74	52.0	405	C60/PU50/M30
v	N1G	5500	72.19	44.9	502	PU50/M30
X	N1	7700	75.02	46.6	759	PU60/M40
	N2	15000	64.68	40.2	1099	M40



Route	Vehicle Type	Vehicle Type (lbs)	Impact Speed (kph)	Impact Speed (mph)	Impact Energy (kJ)	Approx ASTM Rating
	M1	3300	131.3	81.6	996	M40
Y	N1G	5500	100.29	62.3	969	M40
Y	N1	7700	95.45	59.3	1229	M50
	N2	15000	83.5	51.9	1832	M50*

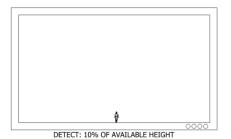


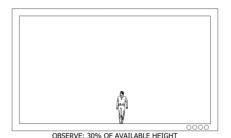
Route	Vehicle Type	Vehicle Type (lbs)	Impact Speed (kph)	Impact Speed (mph)	Impact Energy (kJ)	Approx ASTM Rating
	M1	3300	61.77	38.4	221	C50/PU40/M30
7	N1G	5500	52.28	32.5	263	C50/PU40/M30
Z	N1	7700	54.01	33.6	393	C60/PU50/M30
	N2	15000	45.69	28.4	548	PU50/M30



Video surveillance for the Unified Vision for Downtown Providence will play a major role in its safety and security culture. The video surveillance system provides three (3) key functionalities:

- 1. Deterrence: Clear presence of cameras indicates that area is being monitored and recorded, which can act as a deterrence to threat actors.
- 2. Real-Time Monitoring: Ability to monitor the spaces in real-time can support active observation and detection of suspicious activities. It also provides the ability to remotely monitor the entire site from a single location, which further supports incident management.
- 3. Recorded Video: Recorded history of incidents supports investigations and can also be utilized for evidentiary purposes.



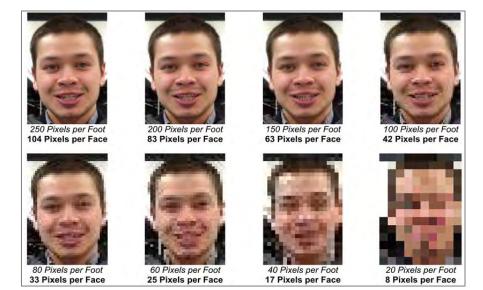






RECOGNISE: 50% OF AVAILABLE HEIGHT

IDENTIFY: 100% OF AVAILABLE HEIGHT



In development of the camera placement strategy we first identified the purpose the video surveillance system is to serve and then the intent of the video surveillance scene. To do this, we considered four (4) primary categories of video surveillance scenes. Each scene is calculated using a baseline height of 5'-9" for the person of interest (POI).

- Detect: The POI occupies at least 10% of the available screen height. After an alert, an observer would be able to search the display screens and ascertain with a high degree of certainty whether or not a person is present.
- Observe: A POI should occupy between 25% and 30% of the screen height. At this scale, some characteristic details of the individual, such as distinctive clothing, can be seen, whilst the view remains sufficiently wide to allow some activity surrounding an incident to be monitored.
- Recognize: When the POI occupies at least 50% of screen height viewers can say with a high degree of certainty whether or not an individual shown is the same as someone they have seen before.
- Identify: When the POI occupies at least 100% of the screen height, picture quality and detail should be sufficient to enable the identity of an individual to be established beyond reasonable doubt.

Camera Technology

To achieve the maximum possible general coverage the site, with the ability to clearly view key areas at all times, the video surveillance strategy utilizes panoramic 180-degree cameras in lieu of the more traditional single fixed imager or pan/tilt/zoom cameras.



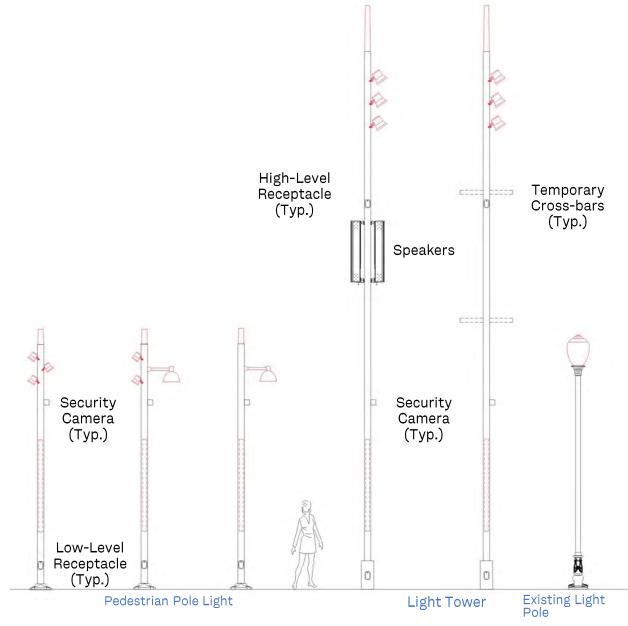


These cameras are to have a minimum of 10 megapixel per imager, with internal software to allow for the multiple imagers within the same camera body to be integrated into a seamless image.

Camera Mounting

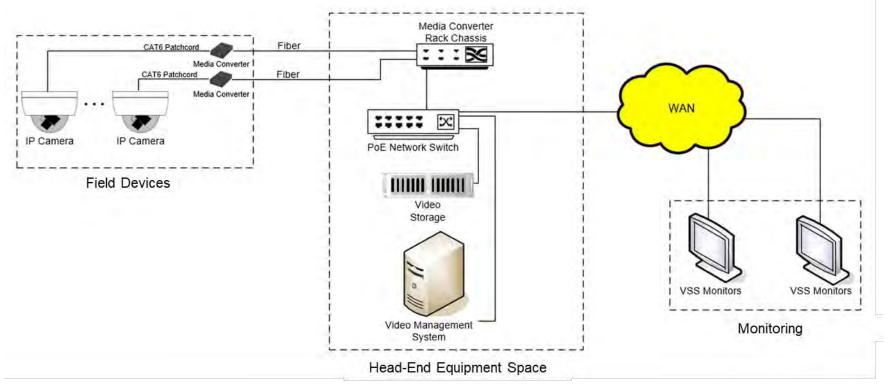
All cameras are to be pole mounted using infrastructure provided that will serve other technologies, such as lighting, audiovisual and communications. In all situations, the cameras will be mounted at a lower elevation than the light fixtures to avoid the cameras from being directed into a light while focused downward to see the plaza, pathways and other areas.

All cameras will be mounted at a minimum height of 15-feet to minimize ability of someone to tamper with the camera or vandalize them to obstruct their filed-of-view.



The video surveillance system will be IP-based, providing the greatest flexibility for utilizing modern megapixel panoramic camera technology and remote monitoring.

Local power will support the media converter allowing for the camera video signal to be transmitted from the pole back to the head-end equipment via fiber optic cabling. The same media converter will also provide power-over-ethernet (PoE) capability for the cameras. Once the video signal is transmitted back to the head-end equipment and connected to the network supporting the video surveillance system, it will be recorded and made available for viewing live or recorded video from anyone with the appropriate permissions that are connected to the same network.



Funding & Phasing

- Cost Estimate (30%) OTHER CONSULTANT
- Funding Gap
- Funding & Phasing Scenarios

Methodology

- Assess potential funding sources. Arup looked at committed and other funding sources such as grants and corporate sponsorships to determine the potential funding gap.
- 2. Develop Funding Gap Scenarios based on potential federal contributions. Arup assessed three funding gap scenarios based on low, medium, and high federal contributions.
- 3. Evaluate new potential funding sources to cover the funding gap. Arup developed rough order of magnitude estimates for fiscal mechanisms (Hotel Tax, Sales Tax, Downtown Improvement District Supplement, and property taxes) that could contribute to reduce the funding gap.
- 4. Considerations to Private participation to leverage private financing. Arup looked at potential forms of private participation that could complement funding sources.

Project costs & funding gap

Capital expenditure

- Estimate approximately \$85M (2021 prices)
- Identified City funding: \$15M
- Capital Expenditure funding gap up to \$70M

Annual operating expenditure

- Estimated around \$1.2M / year, comparable to annual operating revenue
- The Plaza and Riverfront operations could be financially sustainable once fully operational

Annual maintenance costs for capital maintenance, repairs, replacements

• \$0.8M to \$1M per year

CapEx	Total
+ Total CapEx	\$85M
- City funding*	\$15M
Funding Gap	\$70M

Operating	Annual
+ Operating Revenue	\$1.2M
- Operating Expenses	\$1.2M
Funding Gap	\$0

Maintenance	Annual
+ Annual Maintenance Reserve	\$0.8-1M
- Existing / committed funding	\$0
Funding Gap	\$0.8 - 1M

Potential funding sources

1. City / State Funding:

 Approx. \$15M has been identified for the project, between Capital Improvement Plan funds (\$7M) and potentially American Rescue Plan Act (ARPA) funding

2. Potential Federal Grants

- FEMA resilience program: competitive eligibility criteria.
 Riverwalk project may be applicable as it addresses sea level rise and flood prevention; maximum funding \$50M and requires 75/25 local match funding
- US DOT Biden Infrastructure Bill; uncertain at this date what the package may include, although possible eligibility on climate change mitigation, transit and bus networks
- HUD Youth homelessness: programming and capital projects focused on social services for youth homelessness; maximum funding \$1-15M
- National Endowment for the Arts; potential funding for artist programming, less eligible for capital projects
- NPS / Open Space & Preservation
- Maximum federal funding scenario leverages a 75/25 local match funding

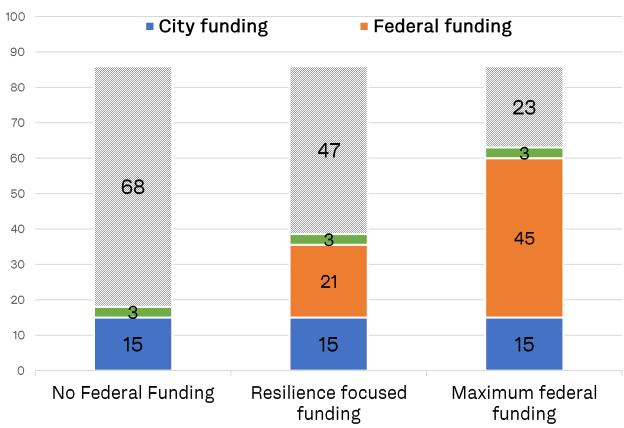
3. Corporate / Sponsorship

- Naming rights; Ice Rink currently attracts \$50,00-60,000 per year. The project counts several attractions that could be used for naming rights contract over multiple years.
- Philanthropy / donations lower likelihood in Providence due to smaller metropolitan area and few / smaller large corporate employers and/or philanthropic organizations.
- A non-profit organizational structure could further incentivize corporate donations and naming rights contract values

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\$25-70M potential funding gap New revenue sources needed

Funding Gap in \$M



Funding gap mitigation

The project will likely have an important funding gap - between \$25M up to \$70M - once the existing local and federal funding sources are taken into consideration. Access to grant funding remains uncertain, competitive and subject to eligibility criteria.

If the project was to be <u>fully publicly funded</u>, then new sources of revenue need to be created to pay for the capital expenditure. These are possible fiscal mechanisms:

- Local Sales Tax / RI tax stabilization program
- Local Hotel Tax supplement
- Downtown Improvement District Supplement
- Property taxes (TIF)

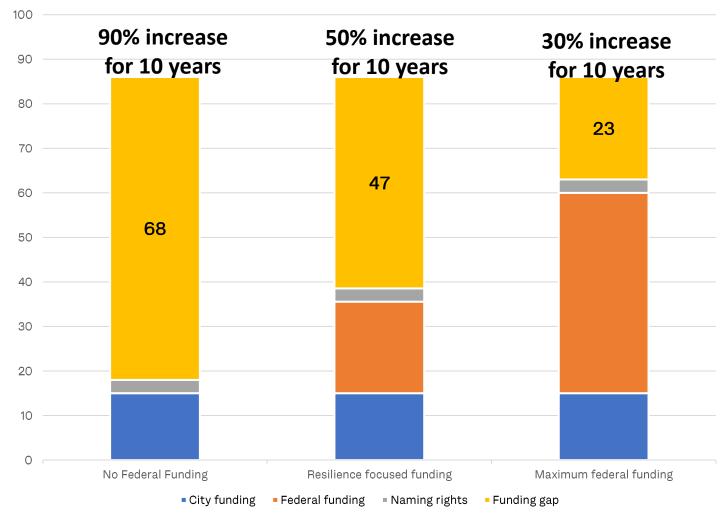
The funding gap could also be partially or fully covered by a <u>private partner</u> through:

- Land sale or land development agreement on city-owned land; using direct transaction value, mix of planning mechanisms (payment-in-lieu, zoning bonus etc.)
- a negotiated public-private partnership with the City of Providence focusing on the delivery and/or operation of the plaza for a number of years

Funding Gap Mitigation: Hotel Tax Supplement CONFIDENTIAL

- 2017-2020, the Meals, Beverages and Hotel Local Tax rate was 1% and generated between \$7M and \$8M each year. In addition, Rhodes Island state rate is 5%.
- The majority of Providence hotels are located Downtown within walking distance of the project.
- A supplement rate to the local rate could help pay for the project.
- Arup estimates suggest that a new rate 1.30% to 1.90% over 10 years, depending on the funding gap, would be needed to cover gap. A longer duration of the fiscal program could further reduce the rate (or increase potential income).
- · Political viability:
 - Could impact visitor spend
 - Requires voter's approval

Local Hotel Tax Supplement in \$M

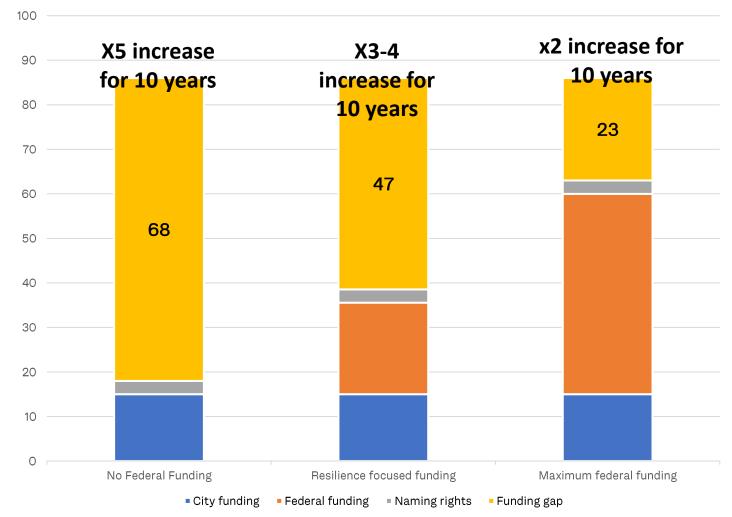


Funding Gap Mitigation: Downtown Improvement District DENTIAL

Supplement

- 2017-2020 assessment collections on commercial properties in the Downtown Improvement District (DID) were around \$1.35M per year.
- Annual revenue of the DID are used for Downtown safety, ambassador program, cleaning and small maintenance expenditure.
- Increasing DID assessment collections and/or the footprint of the DID area to increase the DID tax base could help pay for the funding gap.
- DID assessment collections would have to increase between twice to five-fold over 10 years. A longer duration for the program could further reduce the rate (or increase potential income).
- Political viability:
 - Stresses commercial property values and downtown businesses that are recovering from 2020; may have adverse effect on office occupancy downtown.
 - Requires voter's approval





Funding Gap Mitigation: Local Sales Tax

- Rhode Island Sales Tax rate is 7% and generates around \$1.2bn in revenue per year. There are no local sales tax in the state.
- Providence's contribution is estimated around \$170M / year, based on population share to the State (16%).
- Precedents:
 - Many cities and counties across the country rely on Sales Tax supplements to implement infrastructure programs. LA County Measure M: 0.50% sales tax supplement and 0.50% traffic relief tax voted in 2016 to fund LA Traffic Improvement Plan (transit, highways, active travel infrastructure capital projects, programs and maintenance)
 - Providence Mall: 2/3 of RI sales tax revenue from the Mall (\$3.5M annually) used to finance the project
- Political viability:
 - Local tax for Providence requires new State legislation and voter's approval or, alternatively, a tax stabilization program could be negotiated with the state
 - Larger program likely more politically viable can generate funds for other capital projects in Providence, rather than 246 supporting only one project.

	Kennedy Plaza Funding Gap	Larger Program
Rates	0.2% - 0.5%	1.0 – 1.5 %
Annual Revenue	\$2.3M - 7M	\$14 – 30M
Duration	10 years	10 years
Total funding	\$23 – \$70M Full funding gap	\$140 – \$300M \$70M+ additional funding

Public-Private-Partnership

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There is a range of potential private-partnerships to be considered to leverage private funds. Under a low funding gap scenario, the private sector could, through medium term (10 -15 Y) concessions of some of the revenue generating assets (café, rink, etc.) be responsible for financing their construction, operations and maintenance. Under a large funding gap scenario, the private sector may rely on a one-time subsidy from the City (\$15M or TBD) and finance all or most of the desired program in exchange of maximizing revenue generator components, including events at the plaza.



- ✓ Some O&M project components
- ✓ May provide financing for some project components (rink, café, other revenue generators) in exchange for concession

- ✓ Design+Build+Financing+O&M of the Project
- ✓ Maximize economic vibrancy of the plaza
- √ \$15M how much infrastructure can the private sector provide with subsidy in exchange of maximization of revenue generator components (café, rink, plaza events?)- Long Beach example.

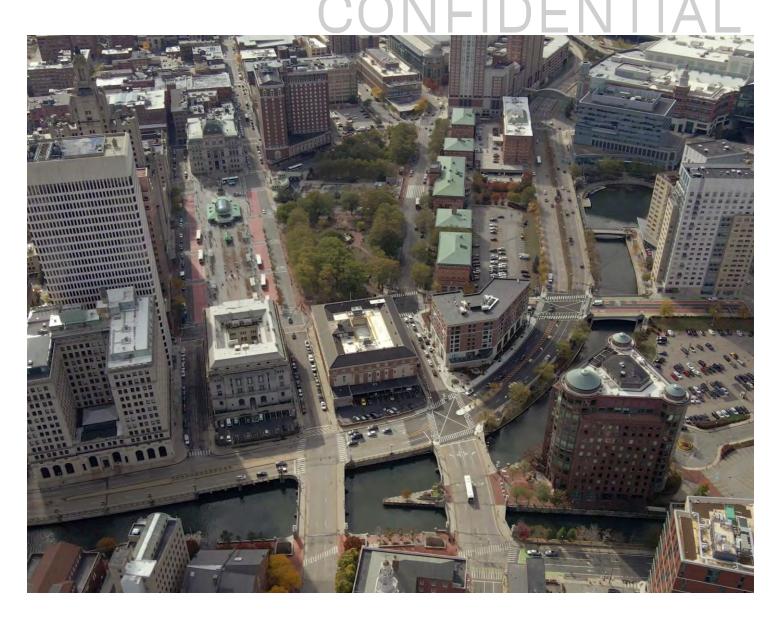
Case study: Long Beach Civic Center



- Private partner provided: Design, Build, Finance, Operation and Maintenance (DBFOM)
- City is the asset owner and will inherit full operations after 35 years, The facility is to be kept under high operational and maintenance standards as required by the performance terms in the P3 contract agreement.
- City pays annual installments to Private Partner to pay-back capital cost – does not need to issue bond / debt
- Annual activities are divided between City / Civic Center (calendar)
- Potential applicability for Providence:
 - Private sector could secure the financing and fund all or most of the program. The city could pay back the private sector through an "availability payment" similar to a mortgage payment or grant the private sector the concession of revenue generating assets or do a combination of both: concession of revenue generating assets plus availability payment.
 - Convention Center operator: has local knowledge of the market and demand; may be interested in expanding activities to managing the public space and events

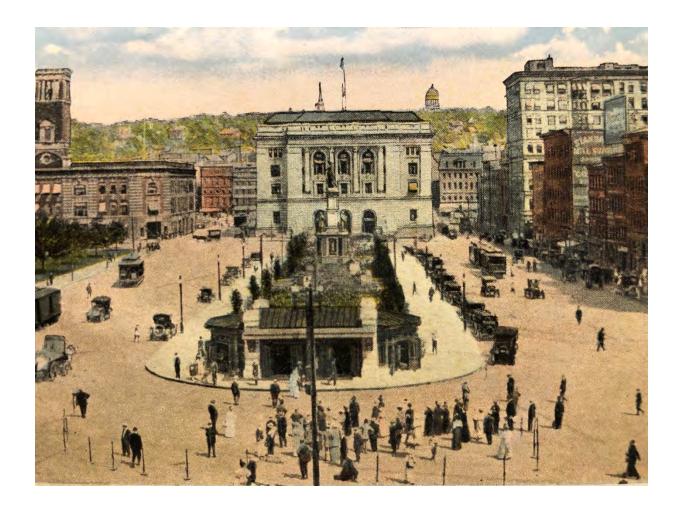
Phasing considerations

- Phasing will depend on the chosen funding strategy:
 - Full funding secured, or part funding only?
 - When are the funds available?
 - What are the risks to the project stakeholders if project starts as partfunded only?
 - What elements of the project can be packaged to align with funding packages?
- Fiscal revenue program will take some time for planning, legislation changes (if needed), public engagement, securing bonds.
- Private partnership may help to accelerate delivery and deliver in one phase.



PROJECT: UNIFIED VISION OF DOWNTOWN PUBLIC SPACES / PROVIDENCE, RHODE ISLAND

SUMMARY REPORT ON HISTORIC PRESERVATION CONSIDERATIONS AND PERMITTING REQUIREMENTS



Client: Arup, Inc.

Consultant: Cornelis J. de Boer AIA

Haynes / de Boer Architecture+Preservation

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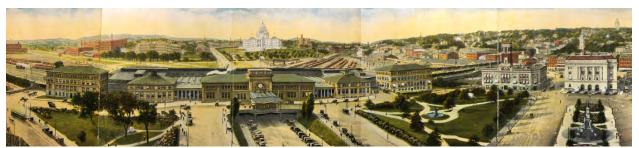
June 15, 2021

PROJECT: UNIFIED VISION OF DOWNTOWN PUBLIC SPACES / PROVIDENCE, RHODE ISLAND

SUMMARY REPORT ON HISTORIC PRESERVATION CONSIDERATIONS AND PERMITTING REQUIREMENTS

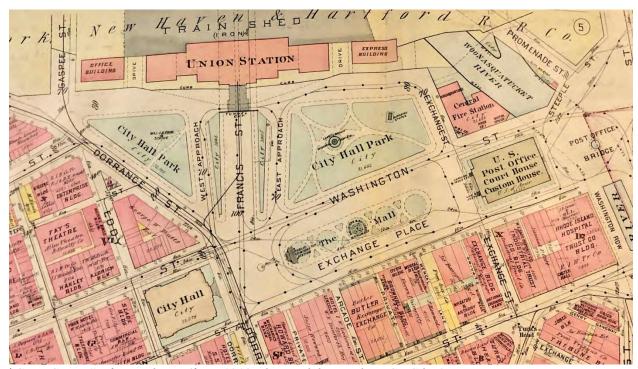
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HISTORIC PRESERVATION CONSIDERATIONS: AN OVERVIEW



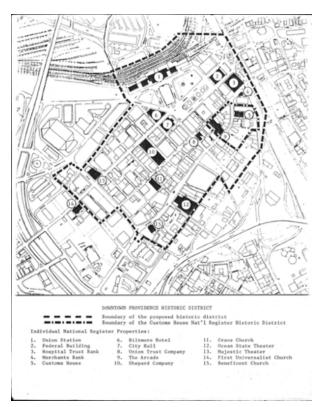
Panoramic postcard view of the 'Civic Center' of Providence c. 1920 (CdeB)

Since the construction of Union Station on a low artificial hill more than 120 years ago, inspiring development of a 'public square', the civic center of the city has been studied and transformed countless times, most recently in 2016. These studies and changes, many driven by transportation issues affecting the city and state, also focused on creating and enhancing connections and access between Kennedy Plaza and the capital center area on the north of side of the old train station leading to the State House.



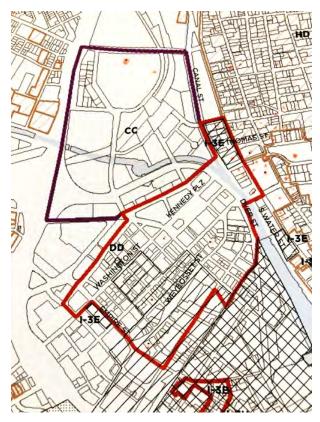
'Civic Center" of Providence (from 1918 Plat Book by Hopkins Co.CdeB)

As we look ahead to making further improvements within the UVD project area, we also need to look back and reach a clear understanding and appreciation of the history of the site and specific historic resources being impacted, many under legal protections.



Perhaps the most important regulatory development in the last 50 years is the recognition of downtown Providence being of historical and architectural significance. In 1984, it was placed on the National Register of Historic Places [See map], nine years after the old Union Station was individually recognized as an historic building complex and placed on the National Register.

Since then, the City created two overlay zoning districts by ordinance. In 1984, the Capital Center Commission was established to oversee development of land and buildings resulting from the relocation of the train tracks and the realignment of the rivers. This CC district includes the old Union Station complex.



In 1994, the Downcity Overlay District was established by ordinance under the purview of the Downtown Design Review Committee. [see map, DOD district outlined in red].

The RI Historical Preservation and Heritage Commission has purview over any construction projects within these districts impacting historic resources.

We have begun preparing a list of regulatory agencies having jurisdiction as well as a list of stakeholders, many with overlapping interests in the development of this central urban district. (See next section addressing Permitting Requirements.)

HISTORIC BUILDINGS AND MONUMENTS

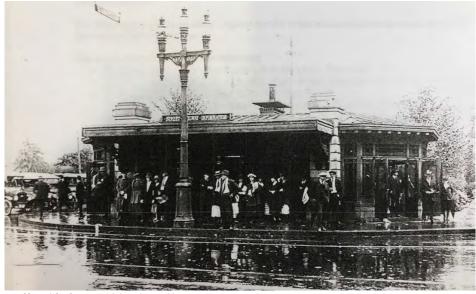
Within the UVD project area, we have identified 2 historic buildings having architectural preservation protections that will be impacted by the project:

TROLLEY SHELTER, built in 1914; Martin and Hall Architects

This small octagonal structure, with geometric iron tracery and stone piers, was designed to shelter trolley and (later) bus riders as well as provide ticketing services and public toilet facilities. In 2002, it was completely gutted, re-roofed, and renovated as part of a larger accommodation for RIPTA riders. It currently houses a police substation.



Trolley Shelter (and Public Comfort Station), c.1920 (RIHS)



Trolley Shelter c.1925 (RIHS)

UNION STATION, built in 1896-1898; Stone, Carpenter, and Willson Architects



Union Station Terminal Building c.1910

The classically-detailed **Union Station** complex, designed by Stone, Carpenter, and Willson and built by the New York, New Haven & Hartford Railroad between 1896 and 1898, consists of 5 buildings arranged symmetrically on axis facing the 'Civic Center' of Providence. The central block features a triumphal arch as gateway to the terminal and the city. (It's adapted for the frontispiece of the train station at the 1893 World's Columbian Exposition in Chicago where the same architects designed the Rhode Island pavilion.) The easternmost building burned to the ground in 1941 and a new taller structure in a similar architectural style was built on its foundation in the early 1990s.

Granite colonnades once linked the main passenger terminal to the east and west annexes and sheltered entrances to the subway entrances to the tracks beyond. These handsome structures were removed in the early 1950s, as well as the enormous iron and glass train shed over the platforms and the decorative iron and glass porte-cochere in front of the main entrance.

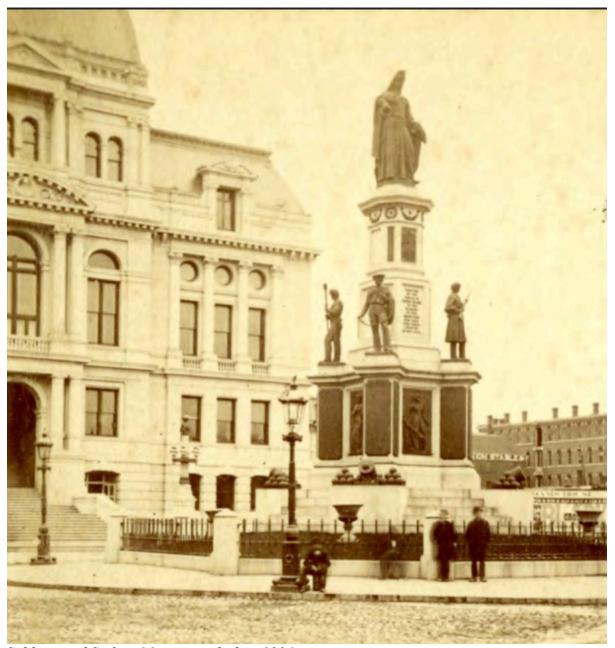
In 1987, shortly after railroad tracks and operations were relocated to the new Amtrak train station to the north, a fire virtually gutted the vacant Terminal Building. By 1990, the building was completely renovated and converted to office use by Cookson America. Ten years later, it became the headquarters of the Rhode Island Foundation.

The Union Station complex was considered a major monument to early 20th century civic planning, linking local and interstate transportation systems. Its reliance on underground ramps and sophisticated trusswork of the viaduct made it an 'engineering milestone' (according to the Historic American Engineering Record).

COMMEMORATIVE MONUMENTS

There are at least five historical monuments in the Kennedy Plaza area that may be impacted or affected by proposed improvements under the UVD Project:

The **Soldiers and Sailors Monument**, situated between City Hall and the Trolley Shelter, was built in 1871 in honor of Rhode Islanders who served in the Civil War. It was designed by Randolph Rogers, a renowned sculptor most famous for his *Nydia*, the Blind Girl of Pompeii and the bronze Columbus doors for the US Capitol. In 1906, it was moved to the center of Exchange Place, and then uprooted again in the late 1990s and reconstructed in its current location (believed to be its original setting depicted here).*

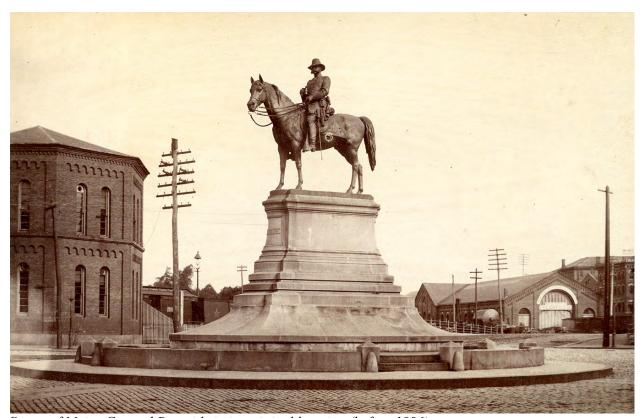


Soldiers and Sailors Monument, before 1906.



The Hiker, a bronze replica of a statue by Theodora Alice Ruggles Kitson commissioned by the National Association of Spanish War Veterans, was given to its local chapter in 1911, and installed in the center of Exchange Place. *

Just north of Kennedy Plaza stands the bronze statue of Major General Ambrose E. **Burnside**, one of Rhode Island's most celebrated Civil War heroes. It was sculpted by Launt Thompson of New York, dedicated in 1887, and erected where the Federal Court House now stands (See historic photo below). It was moved to its current location (then known as City Hall Park) in 1906, placed on a new stone base designed by noted architect William R. Walker. *



Statue of Major General Burnside in its original location (before 1896)

The other major historical monument in Burnside Park is the **Bajnotti Fountain**, dedicated in 1901 as a gift of Paul Bajnotti to the City of Providence in memory of his wife, Carline Mathilde Brown. Enid Yandell, a student of Rodin, won the competition to design the bronze figures representing the Struggle of Life. *



Bajnotti Memorial Fountain in Burnside Park c.1906



The Scout c.1900

To the west of Burnside Park, in City Hall (or Biltmore) Park, stands **The Scout**, a bronze statue of Lieutenant Colonel Henry Harrison Young, "a Providence native and one of the most famous Union spies of the Civil War".

"The monument was designed by Henri Schonhardt, a local sculptor who worked at Gorham and taught at RISD." *

Two notable late 20th century structures will be impacted by the UVD project. One is the monumental granite steps and flanking arched openings built in the mid 1980s (designed by Al Veri and Associates) between the ice rink and Exchange Terrace, when the open space was transformed (again) to a RIPTA bus hub. This edifice conceals infill spaces under Exchange Terrace for the Zamboni, mechanical spaces, storage, service spaces and a pedestrian tunnel leading to an elevator lobby (for the Rhode Island Foundation) and to Waterplace Park.

The skating rink and its gateway building was designed by Architect William Warner and CE Maguire Engineers in the late 1990s, after the RIPTA bus stops were relocated (again). The structure's design ostensibly echoed the twin towers of the original 1848 train station, designed by Thomas Tefft, that stood in Exchange Place.

In collaboration with the UVD team, we will continue to study and advise on the feasibility of making desired changes to these structures as well any landscape improvements and additions within the National Register District, and to consult with AHJs and certain stakeholders in a timely manner as needed.

Select Sources:

*<u>Hidden Treasures</u> / Public Sculpture in Providence (1980) by Robert Freeman and Vivienne Lasky

National Register Nomination Forms

PPS/AIAri Guide to Providence Architecture (2003)

<u>Transforming Providence:</u> Rebirth of a Post-Industrial City by Gene Bunnell (2016)

Rhode Island Architecture by William Jordy

PROJECT: UNIFIED VISION OF DOWNTOWN PUBLIC SPACES / PROVIDENCE, RHODE ISLAND

REPORT ON PERMITTING REQUIREMENTS FOR SPECIFIC CONSTRUCTION PROPOSALS

The following list of construction proposals is derived from the developing concept for major improvements within the project area under consideration by the Arup Team in creating a Unified Vision for Downtown Providence. Each project proposal listed is assumed to require its own permitting process. This report outlines in general terms the governmental agencies that will have jurisdiction on the merits of each proposal and render a decision with input from relevant regulatory agencies as well as stakeholders. However, given the status and complexity of the overall project and overlapping interests and jurisdictions, this listing is subject to change and not definitive.

LIST OF AGENCIES AND AUTHORITIES HAVING JURISDICTION

The following federal, state, and city agencies and entities have legal jurisdiction related to construction projects within the project area and would be actively engaged in the permitting process, starting with conceptual design. In summary, these are:

STATE AND FEDERAL AGENCIES

CCC Capital Center Commission

RIHPHC RI Historical Preservation and Heritage Commission

SPC State Planning Council

RIPTA Rhode Island Public Transit Authority

RIDOT RI Department of Transportation

CRMC Coastal Resources Management Council

RIDEM RI Department of Environmental Management

ACOE US Army Corps Of Engineers

EPA Environmental Protection Agency (New England Region)

FEMA Federal Emergency Management Administration

CITY AGENCIES

DIS	Department of Inspections and Standards

DPP Department of Public Property

PSC Office of Public Safety Commissioner

DPD Department of Planning And Development

CPC City Plan Commission

DDRC Downtown Design Review Committee

DPW Department of Public Works

BPC Board of Park Commissioners

PPBA Providence Public Building Authority

ACT Department of Arts, Culture + Tourism

PFD Providence Fire Department

See Appendix A for a more detailed listing of the various relevant state and city agencies with a general description of their authority and mission. Refer to RMA Environmental's report on Site Characteristics and Permitting Forecast for additional permitting requirements related to stormwater control, flood plains, rising tides, dredging, etc.

STAKEHOLDERS

Stakeholders have a special interest in any new developments within the project area and should be consulted in a timely basis. (See Appendix B.) Such organizations and entities would likely include:

PROVIDENCE FOUNDATION

RHODE ISLAND FOUNDATION

MARSELLA DEVELOPMENT COMPANY

PROVIDENCE PRESERVATION SOCIETY

DEPARTMENT OF ART, CULTURE + TOURISM

BICYCLE AND PEDESTRIAN ADVISORY COMMISSION (BPAC)

CONSTRUCTION PROPOSALS

PROPOSAL 1: ALTERATIONS TO RIPTA INTERMODAL TRANSPORTATION CENTER

Partial demolition and alterations to RIPTA's Intermodal Transportation Center in Kennedy Plaza, built in 2002 as an addition to the historic Trolley Shelter.

Location: 1 Kennedy Plaza, Providence, RI

Plat Lot Unit: 20/31

Owner: City of Providence

Zone: DD/OS

District: Downcity Overlay District

Permitting Authority: **DIS** (City Department of Inspections and Standards)

Prior review and approval required from the following agencies:

- DRC
- RIPTA
- RIHPHC
- PFD

Advisory opinion on interior VSA tile mural and exterior stoneware medallions may be requested or required by the Special Committee for Commemorative Works (under auspices of City of Providence Department of the Arts, Culture + Tourism)

PROPOSAL 2: RESTORATION AND ADAPTIVE USE OF HISTORIC TROLLEY SHELTER

Exterior restoration, interior renovations of the historic 1914 Trolley Shelter, to be converted to a Welcome Center. (See Appendix C for Outline Scope of Restoration Work)

Location: 1 Kennedy Plaza, Providence, RI

Plat Lot Unit: 20/31

Owner: City of Providence

Zone: DD/OS

District: Downcity Overlay District

Permitting Authority: **DIS** (City Department of Inspections and Standards)

Prior review and approval required from the following agencies:

- DRC
- RIHPHC
- PFD
- Zoning

PROPOSAL 3: RELOCATION OF SOLDIERS AND SAILORS MONUMENT

Relocation of the 1871 Soldiers and Sailors Monument to a central location on axis with Washington Street. Repair and restoration of monument. (See Appendix D for Outline Scope of Restoration Work)

Location: 1 Kennedy Plaza, Providence, RI

Plat Lot Unit: 20/31

Owner: City of Providence

Zone: DD/OS

District: Downcity Overlay District

Permitting Authority: DIS

Prior review and approval required from the following agencies:

- DRC
- DPW
- RIHPHC
- ACT

Advisory opinion on proposed relocation: **Special Committee for Commemorative Works** (under auspices of City of Providence Department of the Arts, Culture + Tourism)

PROPOSAL 4: DEMOLITION OF GATEWAY BUILDING AND SKATING RINK

MODIFICATIONS TO VERI'S GRAND STAIRCASE

Modifications and repairs to granite stone staircase designed by Landscape Architect Albert Veri in mid-1980s. Demolition of Skating Rink Gateway Building, designed by William Warner in 1998. Demolition of ice rink. Area to be transformed into an outdoor performing arts venue and 'Youth Park'.

Location: 10 Kennedy Plaza, Providence, RI

Plat Lot Unit: 19/13

Owner: Providence Public Building Authority

Zone: DD/OS

District: Downcity Overlay District

Permitting Authority: **DIS**

Prior review and approval required from the following agencies:

- DRC
- PPBA
- RIHPHC
- BPC
- Zoning

PROPOSAL 5: RENOVATIONS TO SPACES UNDER EXCHANGE TERRACE

Removal of supporting facilities related to skating rink under Exchange Terrace (in front of old Union Station). Renovations to spaces for public restroom, event support, and storage.

Location: Under Exchange Terrace, Providence, RI

Plat Lot Unit: N/A

Owner: City of Providence?

Zone: DD/OS

District: Downcity Overlay District

Permitting Authority: **DIS**

Prior review and approval required from the following agencies:

- DRC
- RIHPHC
- PFD
- Zoning

PROPOSAL 6: CLOSING OF WASHINGTON STREET AND LANDSCAPE MODIFICATIONS TO BURNSIDE PARK AND KENNEDY PLAZA

Closing of Washington Street between Dorrance Street to Exchange Street and merging Burnside Park and Kennedy Plaza as one open space. Reconstruction of Soldiers and Sailors Monument (under Proposal 3). Relocation of 'The Hiker' statue. Creation of a 'Splash/Rink Area'. Removal of bus stop shelters.

Location: 40 Kennedy Plaza, Providence, RI (Burnside Park)

Plat Lot Unit: 10/7

Owner: Providence Public Building Authority

Zone: DD/OS

District: Downcity Overlay District

Permitting Authority: TBD

Prior review and approval required from the following agencies:

- DRC
- RIHPHC
- DPW
- BPC
- Zoning
- ACT

Advisory opinion on 'The Hiker" relocation: Special Committee for Commemorative Works (under auspices of City of Providence Department of the Arts, Culture + Tourism)

PROPOSAL 7: ALTERATIONS TO RIVER WALKS AND WATERPLACE PARK

Selective demolition and alterations to the River Walk and Waterplace Park along the Woonasquatucket River (designed by William Warner FAIA in collaboration with Maguire Engineers). Alterations required to meet current ADA requirements and to address the impact of rising sea levels.

Location: 12 Memorial Blvd. Capital Center

Plat Lot Unit: 19/131

Owner: City of Providence

Zone: DD

District: Capital Center Special Development District

Permitting Authority: TBD

Prior review and approval required from the following agencies:

CCC

- RIHPHC
- CRMC
- BPC

See RMA Environmental Report

PROPOSAL 8: CLOSING OF MEMORIAL BOULEVARD UNDERPASS

Closing and blocking up walkway under Memorial Boulevard between Waterplace and the old Union Station complex. (Abandonment required due to rising sea levels.)

Location: Memorial Boulevard

Plat Lot Unit: 19/140

Owner: City of Providence; State of Rhode Island?

Zone: D-1-100

District: Capital Center Special Development District

Permitting Authority: TBD

Prior review and approval required from the following agencies:

- CCC
- RIHPHC
- CRMC
- RIDOT
- See RMA Environmental Report

PROPOSAL 9: PEDESTRIAN BRIDGE AND PUBLIC RIGHT-OF-WAY BETWEEN EXCHANGE TERRACE AND MEMORIAL BOULEVARD

Elevated pedestrian platform(s) and pathways east of the old Union Station connecting Exchange Terrace and Memorial Boulevard. (Will require ROW easements).

Location: Between Exchange Terrace and Memorial Boulevard

Plat Lot Unit: 19/140 Owner: City of Providence

Plat Lot Unit: 19/137 Owner: Providence LCC ARC Hospitality (5 Memorial Blvd)

Plat Lot Unit: 19/129 Owner: RI Community Foundation (1 Union Station)

Co-Owner: RI Industrial Facilities Corp.

Plat Lot Unit: 19/138 Owner: LLC Union Street Parking (MDC)

Plat Lot Unit: 19/127 Owner: 50 Exchange Terrace LLC

Zone: D-1-100

District: Capital Center Special Development District

Permitting Authority: **DIS**

Prior review and approval required from the following agencies:

CCC

RIHPHC

CRMC

RIDOT

Prepared by:

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APPENDIX A: REGULATORY AGENCIES

The following state and local government agencies have some degree of regulatory jurisdiction over the UVD Project:

STATE OF RHODE ISLAND

CAPITAL CENTER COMMISSION (CCC)

Jurisdiction over the Union Station complex and physical changes between Exchange Terrace and Waterplace Park.

Created by state law (PL 1981 Chapter 332 and amended by PL 1983 Chapter 167 and by PL 1994 Chapter 19) and by Chapter 24 of the City Code of Ordinances, the commission is charged to adopt, implement and administer a plan of development for the Capital Center Special Development District.

Currently, the CCC is administered through staff offices of the Downtown Design Review Committee (or DRC).

CCC Objectives:

- To create new marketable commercial land without demolishing existing downtown structures to attract major new users who might not otherwise locate in the Capital City.
- To enhance vehicular access to the project area, the State House and downtown.
- To create an ordered sense of public spaces. The District was intentionally created as a high density urban district where large contiguous structures would define the diversity of space.
- To create a visual and physical linkage between downtown and the State House, emphasizing the radial views to the State House Dome.

RHODE ISLAND HISTORICAL PRESERVATION AND HERITAGE COMMISSION (RIHPHC)

Jurisdiction over publicly-funded projects affecting historic properties on the National or State Register of Historic Places. The Union Station complex and the Kennedy Plaza area are part of the Downtown Providence Historic District.

Overview

The RIHPHC is responsible for reviewing projects carried out or sponsored by federal, state and municipal agencies to ensure compliance with federal and state historic preservation laws and regulations. The RIHPHC's project review staff advises and assists applicants in determining if their projects will impact significant resources and, if so, how to address and resolve those effects. Projects receiving federal or state funds, permits or licenses, or is on federal, state or municipal property need to be reviewed by RIHPHC staff. Projects which are entirely private undertakings are not subject to review unless a federal or state permit or license is required.

Federal and federally-sponsored programs and projects are reviewed under Section 106 of the National Historic Preservation Act, which requires federal agencies or applicants for federal funds, permits or licenses to consider the effects of their undertaking on historic properties (i.e., those listed in or eligible to be listed in the National Register of Historic Places). Projects that are funded, permitted, or licensed by the State of Rhode Island require project review under the State Historic Preservation Act. Projects undertaken by any municipality that may have an effect on a historic property also require review by the RIHPHC under the State Historic Preservation Act.

Initiating Consultation with the RIHPHC

The RIHPHC encourages agencies and applicants for federal and state assistance to initiate consultation for project review during preliminary project planning before designs are finalized. Early consultation enables adequate time to successfully complete reviews well in advance of construction and will facilitate permit or funding approvals. When planning to submit a project for review, note that by law the RIHPHC is allowed 30 days to respond to requests for project review.

To initiate project review with the RIHPHC, submit the following information:

- Cover letter that includes the project location, a statement of the project purpose and need, project description, a list of federal and/or state funding/permitting sources, and information regarding the current and historic use of the property.
- Map(s) clearly indicating the project area and/or limits of ground disturbance.
- Project plans.
- Clear photographs of the affected resource(s).
- If the project will impact a historic property, include a discussion of how the impact can be avoided or minimized.

STATE PLANNING COUNCIL (SPC)

The Council oversees the Division of Statewide Planning's work. The State Planning Council adopts goals and policies related to planning, most of which are contained within individual plans, which are elements of the State Guide Plan. The Council has been designated as a Metropolitan Planning Organization (MPO) for transportation planning purposes and, as such, the Council adopts the Transportation Improvement Program, a four-year program of transportation investments. As the Comprehensive Economic Development Strategy (CEDS) Committee for the state, the Council maintains the state's Comprehensive Economic Development Strategy and reviews and ranks projects for funding consideration by the U.S. Economic Development Administration. The body also advises the Governor on strategic planning matters.

TRANSPORTATION ADVISORY COMMITTEE (TAC)

This committee advises the State Planning Council on transportation planning and encourages public involvement in the process. The TAC reviews and provides input into the transportation planning documents that are the responsibility of the State Planning Council (notably the long-range Ground Transportation Plan and Transportation Improvement Program).

The Council established the TAC and other transportation planning and public involvement procedures by rule in 1994. The process has been found to meet the requirements of federal law and is subject to continuing review by USDOT.

The membership includes local officials, state agencies, organizations representing a variety of transportation interests, citizens from different areas of the state, and the Narragansett Indian Tribe.

RHODE ISLAND PUBLIC TRANSIT AUTHORITY (RIPTA)

Jurisdiction over the Kennedy Plaza Intermodal Transportation Center, bus stops, shelters, etc.

RHODE ISLAND DEPARTMENT OF TRANSPORTATION (RIDOT)

Jurisdiction over Memorial Boulevard and bridges.

The Rhode Island Department of Transportation (RIDOT) designs, constructs, and maintains the state's surface transportation system. This includes not only roads and bridges but also the state's rail stations, tolling program, bike paths and ferry service.

COASTAL RESOURCES MANAGEMENT COUNCIL (CRMC)

Jurisdiction over tidal waterways, including Waterplace basin, and contiguous areas of 200 feet from shorelines.

The Coastal Resources Management Council is a management agency with regulatory functions. Its primary responsibility is for the preservation, protection, development and where possible the restoration of the coastal areas of the state via the implementation of its <u>integrated and comprehensive coastal management plans</u> and the issuance of permits for work with the coastal zone of the state, including manmade shorelines that have an extended contiguous area of two hundred feet from their inland borders. Cultural features of historical or archaeological significance are also within the jurisdiction of the Council as required by the Federal Government.

CRMC usually defers to the RIHPHC to assess impacts on historical resources.

CITY OF PROVIDENCE

DEPARTMENT OF PUBLIC PROPERTY

Jurisdiction over city roads, street lighting, infrastructure, etc.

The Department of Public Property oversees and performs maintenance, repairs, and construction of the physical assets of Providence's City government and manages citywide programs such as Graffiti Removal and Energy Sustainability including management of decorative and standard street lights. The Department of Public Property serves as a construction manager on all facets of projects including architectural, construction, and furnishings.

The Department of Public property is also responsible for the Board of Contract & Supply and the Purchasing Department.

OFFICE OF PUBLIC SAFETY COMMISSIONER

May have jurisdiction over disposition of existing police station in Kennedy Plaza.

CITY PLAN COMMISSION (CPC)

Jurisdiction over capital improvement projects, including UVD.

The City Plan Commission is responsible for planning activities in the city, including but not limited to:

- Preparing and adopting a Comprehensive Plan, including any amendments, for the City of Providence.
- Providing advisory opinions to the City Council on all amendments to the Zoning Ordinance, including map changes.
- Providing advisory opinions to the City Council on all amendments to the Zoning Ordinance, including map changes.
- Providing advisory opinions on any other matters referred by the City Council or Mayor, including requests for abandonment of city streets and creation of easements across city rights-of-way.
- Reviewing Redevelopment Plans for consistency with the city's Comprehensive Plan.
- Reviewing and approving all proposed subdivisions and land development projects.
- Reviewing and approving the annual Capital Improvement Program and Budget.
- Reviewing Institutional Master Plans for health care and higher educational institutions.

Other responsibilities as identified in <u>Rhode Island General Law</u>, the Providence Zoning Ordinance and <u>Home Rule Charter</u>.

DOWNTOWN DESIGN REVIEW COMMITTEE (DRC)

Jurisdiction primarily over RIPTA Intermodal Transportation Center, old Trolley Shelter, Skating Rink structures, Veri's grand staircase, new structures being proposed for Kennedy Plaza, and historical monuments and statues.

The Downtown Design Review Committee (DDRC) is established as a development plan review body to conduct development plan review in the <u>D-1 Zone</u> and the Downcity Overlay Historic District.

DDRC encourages and directs development in the downtown to ensure that new development is compatible with the existing historic building fabric and the historic character of downtown, historic structures are preserved and design alterations of existing buildings are in keeping with historic character, development encourages day and night time activities that relate to the pedestrian and promote the arts, entertainment, and housing, greenways and open spaces are incorporated into the downtown, and the goals of the Comprehensive Plan are achieved.

DDRC is responsible for issuing Certificates of Appropriateness upon review and approval of plans for demolition and construction.

DEPARTMENT OF PLANNING AND DEVELOPMENT (DPD)

(Department is lead agency for the UVD Project)

The Department of Planning and Development works to shape the future of Providence and ensure a high quality of life for city residents and a vibrant, attractive urban environment for businesses, workers and visitors. The Department generates a broad community vision through comprehensive and neighborhood planning initiatives, special area plans and redevelopment plans; excellent design in our built environment through regulatory tools and development review; promotes a high-quality public realm that enhances civic life; and strives to create strong and vibrant neighborhoods through strategic investments and policies.

The Department is divided into the following divisions:

PLANNING DIVISION

Planning creates, maintains, and implements the City's Comprehensive Plan, and all neighborhood, redevelopment, and special area plans, and oversees environmental planning, historic preservation planning, and transportation planning and transit initiatives. Planning writes, maintains, and updates the Zoning Ordinance and all other land-use regulations. It also advises the Zoning Board of Review, the I-195 Redevelopment Commission, the City Council, and other city departments in matters pertaining to land development and economic growth.

Planning also oversees development review and administration for the:

- Bicycle and Pedestrian Advisory Commission
- <u>Capital Center Commission</u>
- City Plan Commission
- <u>Downtown Design Review Committee</u>
- Historic District Commission

The Department represents the City at the State level through staff appointments to the:

- State Planning Council
- State Technical Committee
- State Transportation Advisory Committee

REAL ESTATE DIVISION

The Real Estate Division oversees and facilitates efforts to redevelop property in the city, as well as efforts to coordinate city services to expedite the permitting process.

INSPECTIONS AND STANDARDS (DIS)

Jurisdiction over issuing permits for demolition and construction.

The Department of Inspection and Standards' mission is to promote public safety and to be part of the economic development of Providence. DIS is primarily responsible for issuing building permits, code enforcement, interpreting the building code, city ordinances, and zoning requirements.

STRUCTURES AND ZONING

Structures and Zoning is charged with issuing zoning certificates, building and demolition permits, review and approval of plans, building inspection, the issuance of certificate of occupancy, compliance with the Building Codes as mandated by the State of Rhode Island, and issuance of notice of violation when a building is not in compliance with the Building Codes or Zoning Ordinance.

The Structures division governs all repair, alteration, or addition to any public or private buildings and structures, as well as permits for new construction. The primary mission of the Structures and Zoning division is to ensure public safety and a better quality of life for the residents of the City of Providence. Structures and Zoning Division manages building construction permitting and ensures compliance with Building Codes and the Zoning Ordinance.

ZONING AND BUILDING BOARDS OF REVIEW

- The Zoning Board of Review has the authority to grant relief from the City's Zoning Ordinance.
- The Building Board of Review has the authority to grant relief from the Rhode Island Building Code.
- Applications for relief from the Ordinance and the Code must be filed with the Office of the Boards of Review.

FIRE DEPARTMENT (PFD)

Jurisdiction over interpreting and enforcing the RI Life Safety Code related to existing buildings and proposed building construction.

The Providence Fire Department provides for the protection of human life and property from fire and other disasters, either natural or man-made, through fire safety education, the development, and enforcement of fire codes, provision of emergency medical services and suppression of fire.

DEPARTMENT OF PUBLIC WORKS (DPW)

The Department of Public Works provides services relative to the operations, maintenance, planning, construction and engineering of public works infrastructure and waste management for the City of Providence.

The Department is comprised of seven (7) Divisions that include Administration, Engineering, Traffic, Parking, Highway, Sewer, and Environmental.

TRAFFIC ENGINEER

The goal of The Traffic Engineering Division (TED) is to provide for the safe and efficient movement of people and goods on City roads. TED issues new Traffic Regulations that govern the use of city streets using Traffic Control Devices as outlined in the Manual on Uniform Traffic Control Devices.

TED is responsible for the following throughout the City:

- Traffic Signals, Traffic Signs, Pavement Markings and Parking Meters on the City's nearly 2,100 streets (366 miles of roadway).
- The closing of City streets for special events, construction projects, and for detouring traffic when requested by customers via the proper forms.
- The maintenance, installation, and collection from parking meters.
- Reviewing all off-street parking and curb opening plans that go before the Zoning Board of Review and Building Inspector.
- The issuance of street and/or sidewalk closing permits and the review of all dumpster permits.
- The issuance and monitoring of all official temporary parking permits to the City
 of Providence Employees only and posting Temporary Emergency No Parking
 Tow Zone signs in areas when requested by individuals or companies who have
 to work in specific locations for moving and construction activities.
- Traffic studies with regard to accident statistical information and traffic counts in the review of requests for stop controls and traffic signals.

ENGINEERING DIVISION

The Engineering Division is the custodian of all engineering records for City Public Works infrastructure including sewers, street lines, benchmarks, highway sections and other archival records.

Engineering Division is responsible for the inspection and construction management of streets, sewers, storm drains, traffic signals, traffic signs, pavement markings,

construction projects, maintenance projects; planning, design, and project management of the City's Capital Improvement Program (CIP).

The Division is responsible for all the public contracts and construction projects that use public funds. It prepares and updates the Capital Improvement Program (CIP), and other Federal Funding Programs; provides inspection and contract administration for the projects.

The Engineering Division is also responsible for the following:

- Reviewing site plans for new construction and reconstruction
- Investigating and reviewing legal claims against the City
- Reviewing planned utility work and issuing permits for installation/repair
- Reviewing and issuing Physical Alteration Permits (PAPs) for work within the public right-of-way, including curbs, sidewalks, and driveways
- Issuing permits for connections, extensions, alterations, and modifications to the City's sewer system
- Assist the Board of License with the inspection/issuance of table and chair licenses
- Maintains the database of new sidewalk requests

PARKING

There are over 2300 metered spots located Downtown, on College Hill, Smith Hill and in the Jewelry District. There are also 400 non-metered spots, as well as over 20,000 public/private parking spaces within walking distance of most establishments.

HIGHWAY DIVISION

The Highway Division is responsible for the following services to the City of Providence:

- Pothole repair and road maintenance for 370 miles of roadway.
- Monitoring the safety of 50 City-owned bridges.
- Cleaning and repair of City owned sidewalks.
- Plowing and Sanding of City streets during the winter snow.
- Removal of litter and debris from City-owned property, streets, and sidewalks.
- Street sweeping of all City streets.
- Clean up following neighborhood, organizational and ethnic festivals.
- Environmental clean-ups with the City's Environmental Department during clean and liens of private property.

SEWER DIVISION

The Sewer Division is responsible for the following services:

- Cleaning, maintenance, and repair of City sewer mains.
- Repair of inlet stones.
- Catch basin cleaning and repair.
- Repair of broken pipes owned and operated by the City.

ENVIRONMENTAL SERVICES DIVISION

Mission is to enhance the quality of life and protect the public interest through sound environmental policies, enforcing codes and ordinances, and provide efficient public services in the areas of solid waste management, recycling, and vector control.

Administer and monitor refuse and recycling programs throughout the City.

- Promote proper disposal of household hazardous waste
- Provide vector control measures that mitigate and combat public health risks
- Implement public outreach and education programs
- Partner with state and federal agencies, local businesses and organizations, and community groups for the benefit of increasing recycling rates and awareness

BOARD OF PARKS COMMISSIONERS (BPC)

The Providence Parks Department has jurisdiction over Waterplace Park (4.21 acres), Biltmore Park (1.17 acres), Bank Newport City Center (Skating Rink) (1.32 acres), Kennedy Plaza (2.16 acres), and Burnside Park (2,06 acres).

The Board of Parks Commissioners has jurisdiction over all green spaces of the city, all parks including Roger Williams Park Zoo and Roger Williams Park Museum, the North Burial Ground and other city-owned or controlled cemeteries, public recreational areas of all types including those on or adjacent to school property and all forestry functions including the setting out, care and removal of trees, shrubs and other plants on the streets of the city as well as on the properties for which it is responsible.

FORESTRY DIVISION

Jurisdiction over disposition of significant trees within the project area, etc.

The Forestry Division of the Parks Department manages the city's 27,400 street trees, as well as all trees in city parks and on public property. It handles requests for dead tree removal, tree pruning, pick-up of fallen branches, and stump removal.

The Forestry Division plants trees as a partner in the Providence Neighborhood Planting Program (PNPP), with matched financing from the Mary Elizabeth Sharpe Providence Neighborhood Planting Program (PNPP) Fund of the Rhode Island Foundation.

PROVIDENCE PUBLIC BUILDING AUTHORITY (PPBA)

PPBA has legal jurisdiction over Lot 10/7 (Burnside Park), and Lot 19/13 (Biltmore Park and Skating Rink structures, and grand staircase).

City agency responsible for providing funding and construction services for municipal buildings. For information regarding the PPBA, contact:

Mal A. Salvatore, Attorney 400 Reservoir Avenue # 3g Providence, RI 02907

APPENDIX B: STAKEHOLDERS

PROVIDENCE FOUNDATION

The mission of The Providence Foundation is to create an environment that is conducive to growth and sustained investment, making Providence the premier mid-sized city in the country. The Foundation achieves its mission by advocating for policies, facilitating with leaders and stakeholders, building consensus in the community and continuously recruiting new voices.

The Foundation champions for productive downtown development and activation and represents the interests of downtown business owners, property owners, residents, and nonprofit institutions. The Foundation aims to embrace and reflect the diversity of our community and works toward these goals, among them:

PARKS AND PUBLIC SPACE

- Lead efforts to create the <u>Downtown Providence Parks Network</u> as a driver of economic development, tourism and the general health and wellbeing of our citizens.
- Advocate for increased public space maintenance, repairs, and improvements; pursue funds to dredge downtown rivers.
- Continue to revitalize Kennedy Plaza as a multi-functional civic square through the <u>Downtown Providence Parks Conservancy</u>.
- Increase positive use of public space through public programming, retail development, and infrastructure improvements.

DOWNTOWN PROVIDENCE PARKS CONSERVANCY (DPPC)

The Downtown Providence Parks Conservancy (DPPC), a program of the Providence Foundation, is a public-private partnership formed to preserve and revitalize Providence's historic downtown core by transforming it into a lively, cohesive, and prosperous economic and cultural center through the development and management of exceptional public spaces. Goals include:

- Creating pedestrian-friendly environment
- Improving RIPTA rider experience
- Bolstering Economic well-being
- Promoting arts and culture

Capital improvement projects have included restoration of the **General Burnside Monument** and **The Hiker Statue** and capital improvements in Kennedy Plaza and the adjoining parks. Fund-raising for phased restoration of the **Soldiers and Sailors Monument** was initiated prior to the pandemic.

RHODE ISLAND FOUNDATION (RIF)

Principal owner and occupant in the former Union Station terminal building.

MARSELLA DEVELOPMENT COMPANY (MDC)

Property Managers of 30, 36, 50, and 56 Exchange Terrace and the Central Terminal Building (formerly Union Station and now occupied by the Rhode Island Foundation), Union Station Parking Structure, Courtyard by Marriott hotel, and the Parcel One development site.

PROVIDENCE PRESERVATION SOCIETY (PPS)

PPS's mission is to improve Providence by advocating for historic preservation and the enhancement of the city's unique character through thoughtful design and planning. Its Planning and Architectural Review (PAR) Committee serves as the Society's primary planning and design review body. Through a cooperative design review process, PPS promotes a respect for the scale, rhythm, and patterns of urban development in Providence; a sensitivity to historic fabric, neighborhoods, and landscapes; and thoughtful and appropriate design to benefit the city culturally, economically, and environmentally.

PPS invites developers and designers to present projects to PAR at monthly meetings. This process includes input and dialogue on specific planning and design issues, and results in advice and expertise from a preservation perspective. Project teams receive a letter summarizing PAR's comments and recommendations, and a copy is often sent to respective commissions that will review the project and to neighborhood associations, elected officials, and other interested parties.

BICYCLE AND PEDESTRIAN ADVISORY COMMISSION (BPAC)

This commission is charged with serving as the **advisory** body to the Mayor, City Plan Commission, Department of Public Works, Department of Planning and Development, and the Office of Sustainability on matters pertaining to bicycling and walking in the City. The BPAC may also examine the need for bicycle and pedestrian transportation; promote programs and facilities for bicycles and pedestrians in this City; educate and inform the public and local official on bicycle and pedestrian issues; and perform

special studies and projects as requested by the City on bicycle and pedestrian questions, including reviewing development plans and site plans which may have a significant impact on bicycle and pedestrian transportation.

The BPAC may also facilitate citizen participation in consideration of matters involving bicycle and pedestrian questions; study changes in laws, regulations, and best practices concerning bicycle and pedestrian issues and advise the City with respect to such changes; promote intergovernmental and public/private cooperation and coordination on bicycle and pedestrian matters; and advise the public and the City on matters affecting the relationship between bicycle and pedestrian transportation and parks, schools, transit stops, and other major facilities.

The BPAC is also responsible for reviewing all significant street, sidewalk, or trail repair or construction projects in the City. As part of such review, the Commission reviews each project's level of compliance with the components of a Complete Street to ensure that the design improves facilities for all road users to the extent possible, and that it implements the elements of the City's <u>Great Streets Plan</u> and other planning and policy documents created by the City, where applicable.

The Department of Planning and Development provides administrative support to the BPAC.

DEPARTMENT OF ART CULTURE + TOURISM (ACT)

ACT Public Art is an initiative of the Department of Art Culture + Tourism. ACT Public Art channels the creative energy of the city manifesting it in a range of artwork and artists' projects that:

- * contribute to shaping the city's visual identity,
- * improve the quality of life for all residents, and
- * create opportunities for engagement, connectivity and community building.

The program has four trajectories: Landmark Artworks, Public Art Residencies, Temporary Projects, and Civic Infrastructure.

The department also administers the **Special Committee for Commemorative Works** which reviews and advises on proposals for changes to existing commemorative works (including historical statues and monuments) on city properties. See: https://artculturetourism.com/special-committee_fag/

Sources: Web Sites; Interviews with local officials

APPENDIX C: TROLLEY SHELTER OUTLINE SCOPE OF EXTERIOR WORK

RESTORATION OF HISTORIC TROLLEY SHELTER

The following scope of work reflects our preliminary recommendation for a comprehensive restoration and renovation of the Trolley Shelter, based on a cursory fabric survey, reviewing available historical documents, and our understanding of proposed changes in use under the current UVD concept.

We recommend that the north, west and south elevations of the building be restored as closely as possible to the original design. (The east side of the building will abut a new addition, or altered addition, as it has been over the last 20 years). The interior would be adapted as needed, but respectful of its historic character, such as it is. This scope of work would be updated during design development as more information becomes available through deep research and investigations.

OUTLINE SCOPE OF EXTERIOR WORK

- 1. Replacement of the metal roof with a new batten seam copper roof resembling the original design. The skylight in the canopy would be removed since it was not part of the original construction. Rebuilding of built-in gutters and rain leaders.
- 2. Cleaning and repointing of the granite stone piers.
- 3. Repairs and restoration of the wood cornice.
- 4. Replacement of the single door on the west elevation with new double out-swinging metal and glass doors to resemble the original. Doors would be fitted with tempered glass and appropriate hardware, including exit devices, weatherstripping, and closers.
- 5. Repairs and/or replacement of windows and fixed door panels on the north and south sides of the building.
- 6. Restoration of ornate metal work, including grillage and canopy brackets.
- 7. Painting of all previously painted surfaces.

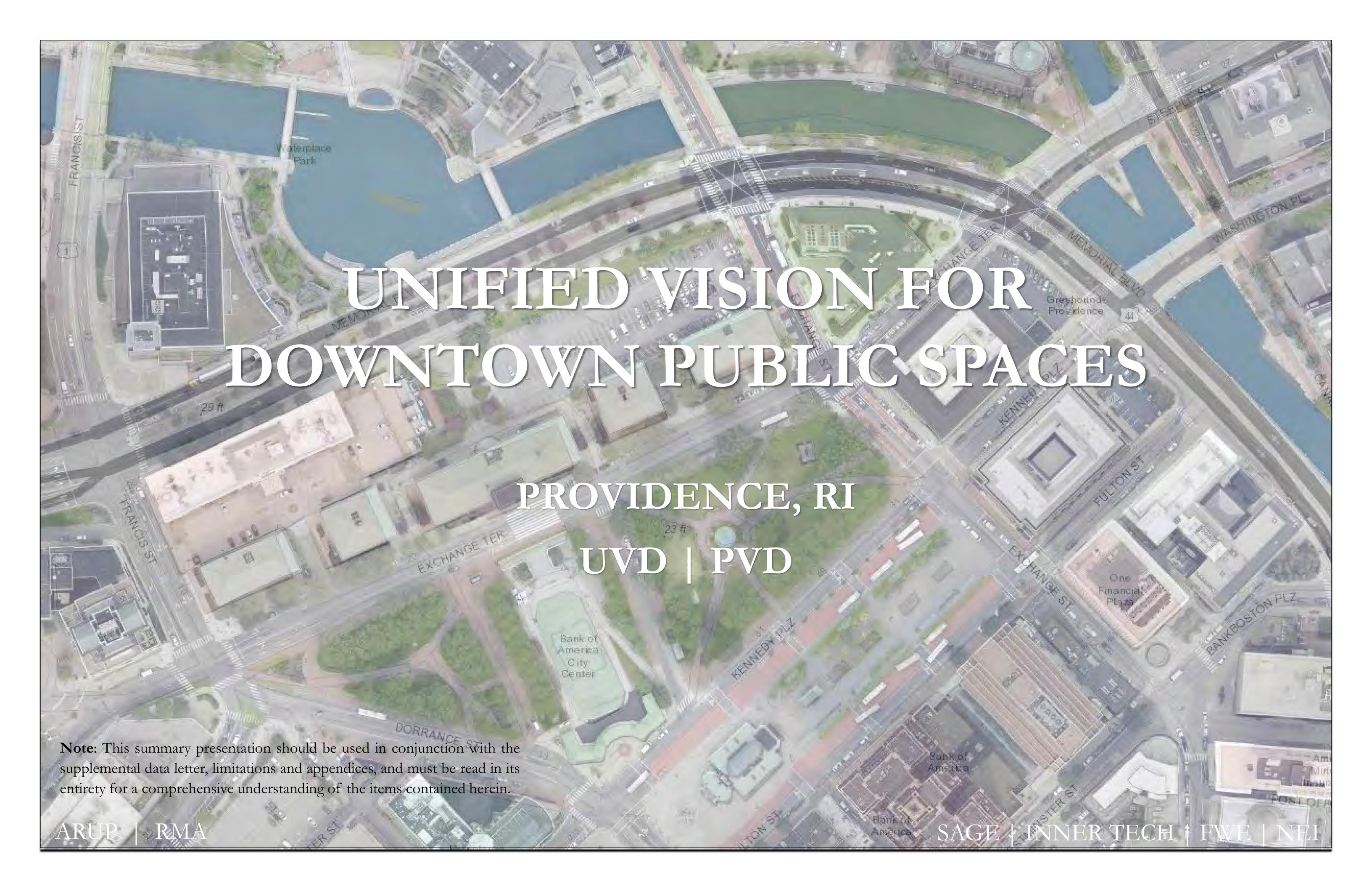
APPENDIX D: SOLDIERS AND SAILORS MONUMENT OUTLINE SCOPE OF WORK

RELOCATION AND RESTORATION OF SOLDIERS AND SAILORS MONUMENT

The following scope of work outlines our preliminary recommendation for a comprehensive restoration of the Soldiers and Sailors Monument, based on a cursory visual survey, reviewing available historical documents, and our understanding of the proposed relocation of the monument under the current UVD concept. This scope of work would be updated during design development as more information becomes available through deep research and investigations.

OUTLINE SCOPE OF WORK

- 1. Careful dismantling of monument, piece by piece, by experienced trades under close supervision, for proper storage and reconstruction.
- 2. Careful removal of stone slabs surrounding the monument, including outer circle of radial stone slabs for possible relocation.
- Construction of reinforced concrete foundation (on pilings, to be determined).
- 4. Reconstruction and restoration of monument by experienced trades under close supervision.
- 5. Restoration/reconstruction of missing components (such as cannonballs).
- 6. Restoration/refinishing of bronze plaques and statuary following appropriate historic preservation practices.
- 7. Provisions for lighting the monument.





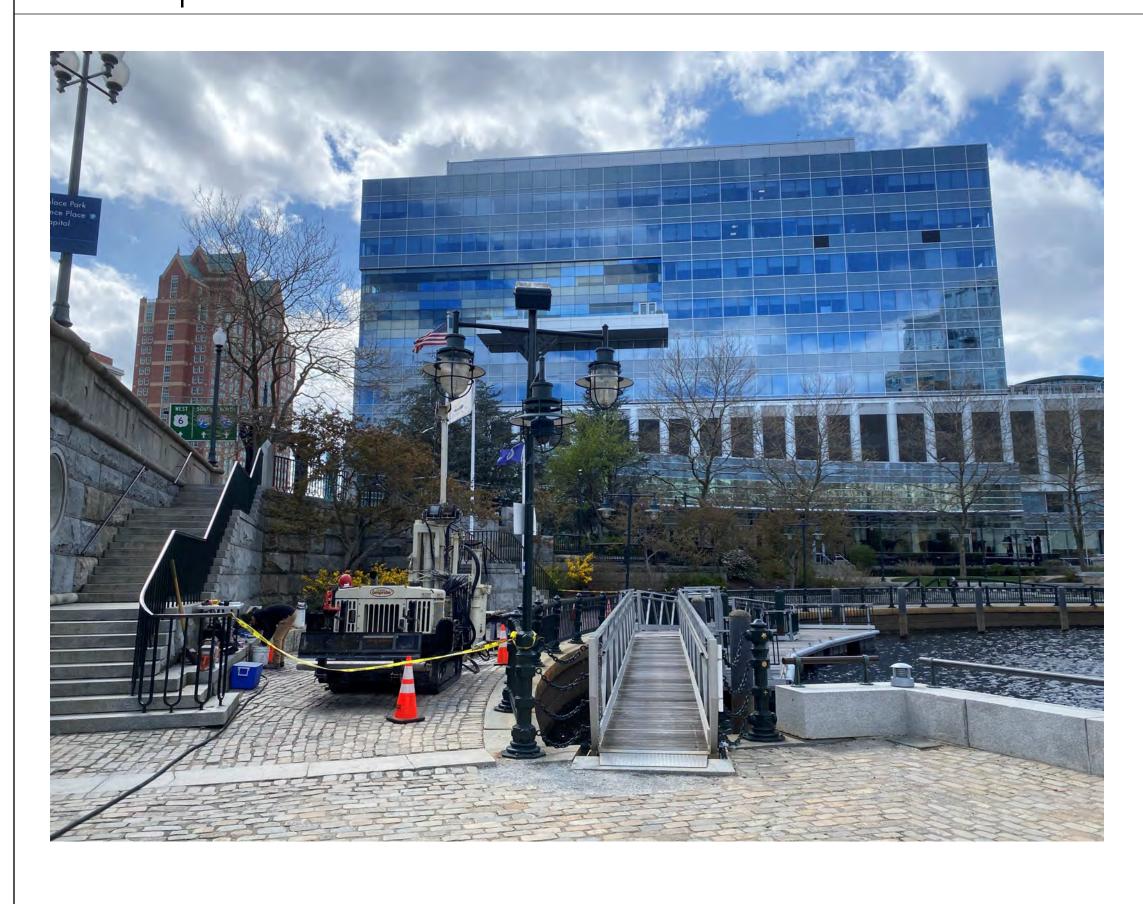
PURPOSE AND SCOPE

UNIFIED VISION FOR DOWNTOWN PUBLIC SPACES

(UVD | PVD)

ARUP | RMA





PROJECT GOALS

- Identify the existing surface, subsurface and in-water conditions along the Riverwalk and Seawall
- Evaluate potential implications the observed conditions may have upon the existing and proposed structures and project area
- Provide preliminary geotechnical assessments and feasibility recommendations for the project areas
- Review and analyze historical data to provide similar preliminary recommendations for Kennedy Plaza and the area adjoining the two, designated as the "Connector" area.

This study is provided as part of an amendment to the existing contract with ARUP regarding the Unified Vision of Downtown Providence Public Spaces. The recommendations contained in this report are preliminary and based upon the results of field testing, engineering analyses, historical data, and our current understanding of the proposed improvements.

PROJECT SCOPE

RMA Environmental (RMA)

- GeoEnvironmental Engineering
- Waterfront Engineering
- Project coordination

SAGE EnviroTech Drilling Services (SAGE)

- Geotechnical and Environmental Drilling
- Laboratory Coordination

Inner Tech Marine Services and First Water Engineering

• Perform a visual and tactile inspection of river walls from within river.

Narragansett Engineering (NEI)

• Survey and UAV imagery



UNIFIED VISION FOR DOWNTOWN PUBLIC SPACES

SAGE | INNER TECH | FWE | NEI

ARUP | RMA

STUDY AREA AND BACKGROUND MAPS

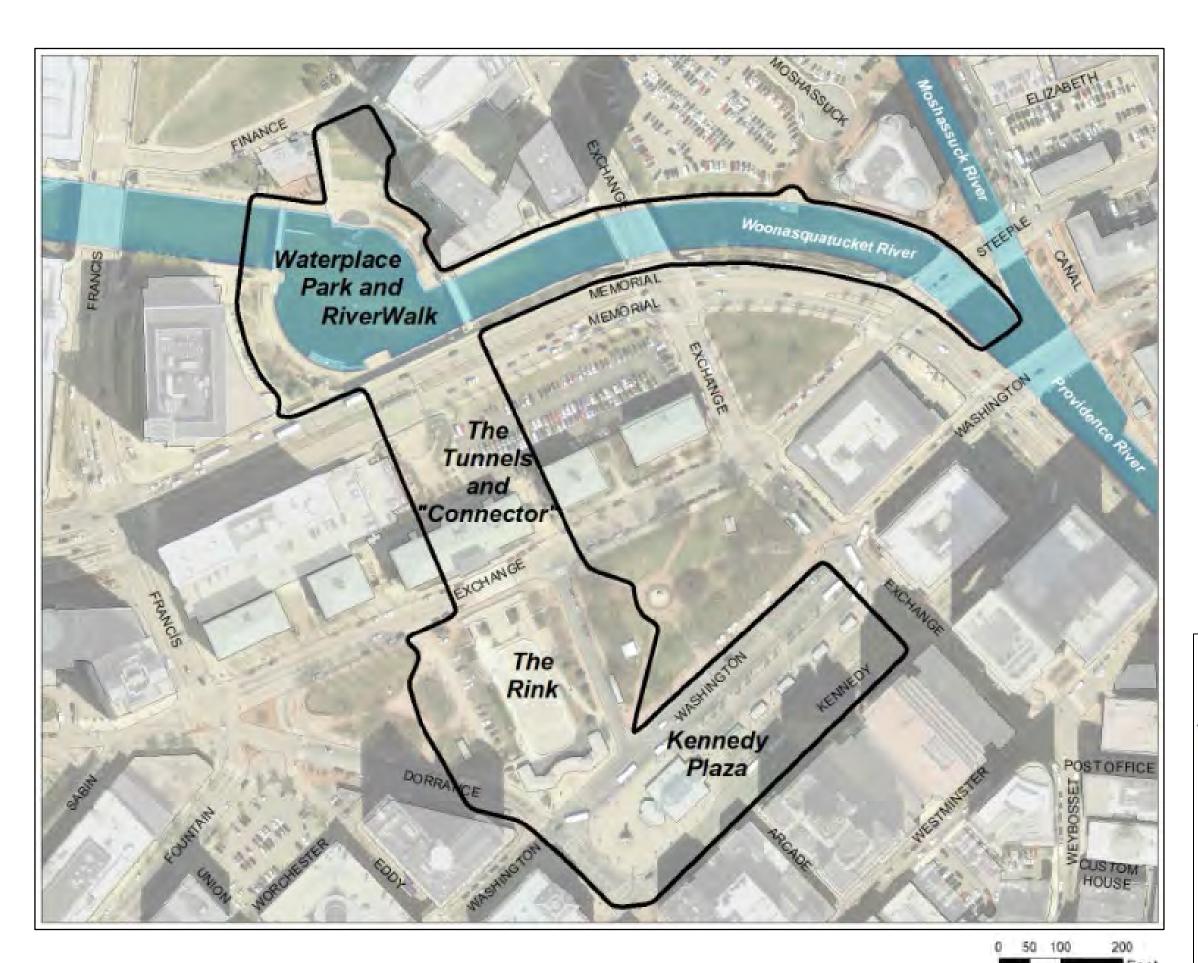
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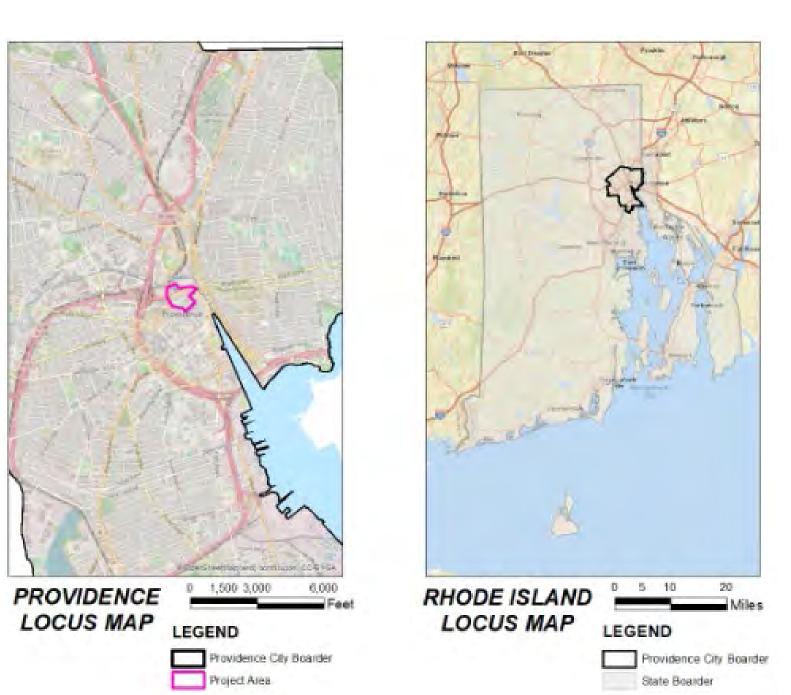
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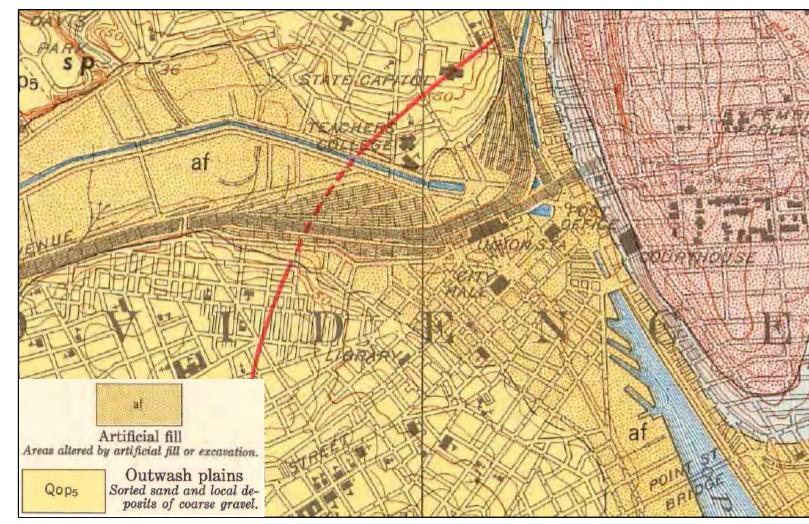
UNIFIED VISION FOR DOWNTOWN PUBLIC SPACES (UVD | PVD)

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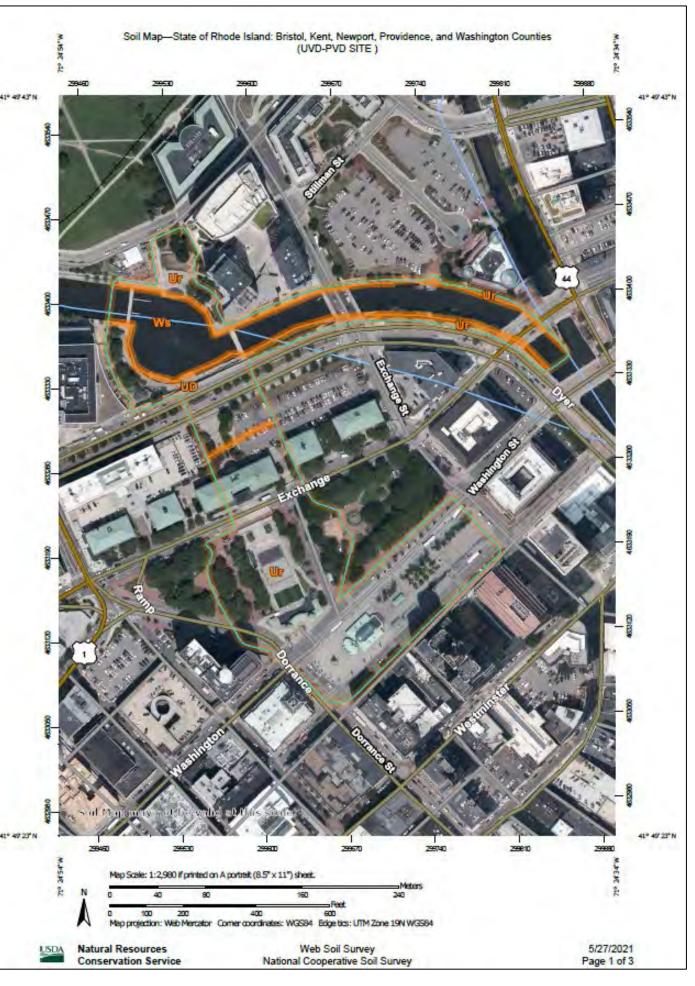


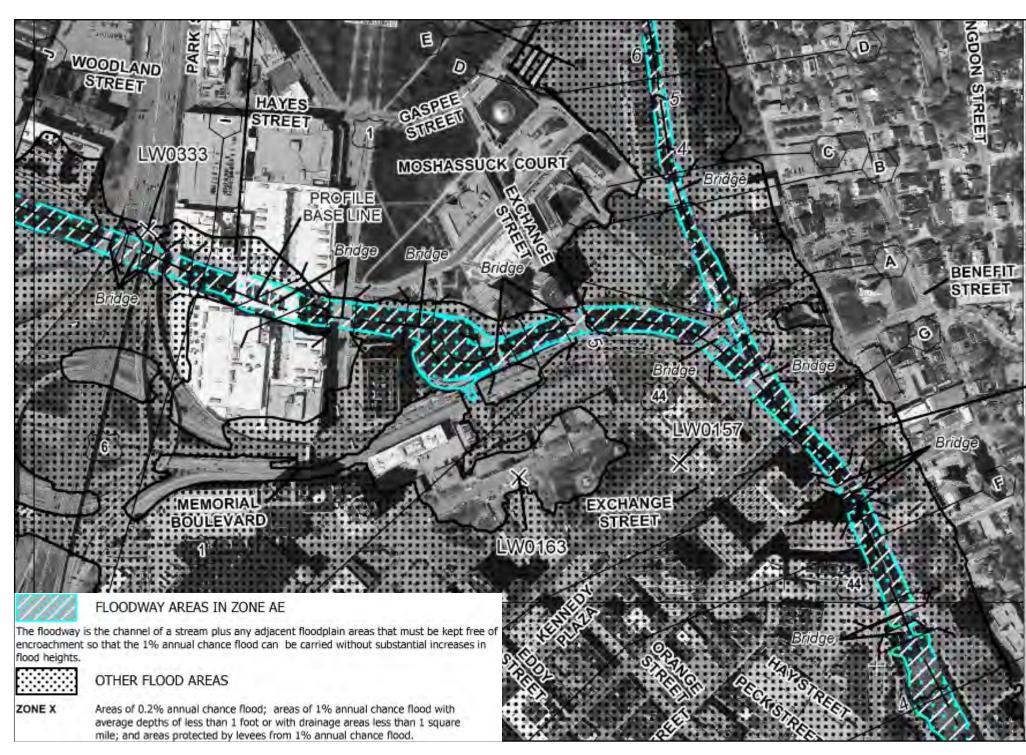


Pri Rhode Island formation

SURFICIAL SOIL MAP

BEDROCK MAP





FEMA FLOOD INSURANCE RATE MAP 44007C0308J

6/16/2021	UNIFIED VISION FOR DOWNTOWN PUBLIC SPACES	6
ARUP RMA	(UVD PVD)	SAGE INNER TECH FWE NEI

HISTORIC DATA



	February 1937. Altitude of land surface about 11 feet above selog.	Thickness	Depth
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n	Sand, silty, and shells	-	
	Sand, dirty, and fine gravel		36
	Sand, hard, gravel, and boulders	3	39
	Sand, hard, gravel, little clay	26	65
	Refusal, at		65
	Twenty test holes were driven, Pro. 251 to Pro. 270,	and one t	est nit

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dense bit to 14'-6" Had to move boring 5' north Bottom of Boring 14'-6"	14'-3" GRANTE SIAB 15'-6" WOOD 1 5h" 18' 15'-6" WOOD 1 5h" 18' 18'	Bottom of Boring 54'-0" 954' 70 blows on spoon for no penetration possible rock or boulder
	25'-27' D 4. 3 2 " 26'-6" "& some fibrous peat 3 24"18" Gray SILT & very fine sand 30'-32' D 18 12 13 wet 31'-0" 424"13" 14 very stiff very fine sand Very fine sand	
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e CisiCared Will Washed Bace 0 to 10% Cohesion and Piston UT = Shelby Tube little 10 to 20% 0-10	less De		arth Boring 93'		Cored Wawast ston UT=Shelby	red b	Proportions trace 0		Conesionless D	lib. Wt x 30° fail on 2° 0.0. Sampler ensity Conesive Consistency acce 0-4 Soft 30 + Hard p	Earth Sering 93"	D=Drive C=	Cored W=Wash	ed trace	0 to 10%		riess Dev		Eura Boring

20	PORT SEI	NT TO	ab	ove	Brid	ge	LOCATION	Provid	89-126 SURF. ELEV.	_ 7		1	MPLES S	TYT TO					_ PR	R JOB NO.	89-126	OFFSET SURF. ELEV.					
	GRO	und water obs	но	ers ers	Type Size I D Hommer Hommer	wı I	CASING HW-NW 4" 3" Orilled	S/S 1-3/8' 1400 30"	COMPLETE 9/6/88		scia	AI _	GRO	Ofter	Hou	15	Type Size i D. Hommer V Hommer F	v1 _	CASING	SAMPLER	START COMPL TOTAL BORING INSPEC	HRS.					
	Casing Blows per loot	Somple Dealns From - To	Type of Somor	From		To	Moisture Density or Consist	Strata Change Elev	SOIL IDENTIFICATION Remorks include color, gradation, Type of soil etc. Rock-color, type, condition, hardness, Ording time, seams and etc. 2" Asphalt - 1'6" of Concret	No	AMPLE Pen Rec	ОЕРТН	Casing Blows per foot	Sample Depths From- To	Type of Somole	From	Sompler		Moisture Density or Consist.	Strata Change Elev	SOIL IDENTIFICAT Remarks includes color, soil etc. Rock-color, typi ness, Drilling time, seam	prodution, Type of t, condition, hard- s and etc.	SAM No Pe				
		1'-2'6"	D	8	6	40			& Brick - 16'9" from Top of Bridge to Road Brown Gray fine to medium SAND & Gravel, little silt,		18" 12"			39'-41'	D			70		43'6"	Gray varved Cla with fine Sand Gray compact me	Layers	9 2				
		6'-7'6"	D	2	1	8		8'6"	Brick - Fill	2	18" 6"			44'-46'	D	69	82	80		46'	SAND & Gravel, Till Refusal - B of Boring 4	ottom	10 2				
						11'-13'	D	1	0	0 3			Black Gray sandy Organic SILT, trace of fibers	3	24" 24"									Note:	Inspector calle	d Hole.	
		14'-16'	D	Pus	h w/R	10			•	4	24" 10"																
		19'-21'	D	3	3 2 7	Gray fine SAND, some silt, some medium sand	5 0	24" 24"																			
		241-261	D	12	17	39		25'	Gray medium to coarse SAND	6	24" 24"							-									
		29'-31'	D	39	24	_		30'	& fine to medium Gravel, little silt, cobbles	7	24" 20"					-											
		,4'-36'		10	10	15			Gray Clayey SILT	8	24" 24"																
		J4 - J6	D	18	10	22																					
	ROUND ple Typ	SURFACE TO _	39	_	raporti			CASING:	O"tallian 2"OD Campier 1	STHAN				SURFACE TO _				SED_	**	CASING:	THEN						

REP	ORT SE	Engineer Exchang	e Ter ab	ove "	Brid	ge_	LOCATION	Provid	ence, R.I.	7.		050	PORT SEN	AME NT TO				l	IPR	0.1.00	89-126 LINE B STA. OFFSET	7.3
-	GRO	UND WATER OBS	нои	"	Type Size I D. Hamme Hamme	r Wi	CASING HW-NW 4" 3" Drilled	5/5 1-3/8' 1400 30"	COMPLETE 9/9/88	=	scia	A1		und water obs	Hou	ors.	Type Size i D. Hommer Hommer	wı	CASING	SAMPLE	R CORE BAR. START COMPLETE TOTAL HRS. BORING FOREMAN INSPECTOR SOILS ENGR.	
L	Cosing Blows per tool	Somple Depins From - To	Type of Samore	From		6" er To	Moisture Density or Consist	Strata Change Elev	SOIL IDENTIFICATION Remarks include color, gradotton, Type of soil etc. Rock-color, type, condition, hardness, Drilling time, seams and etc.		AMPLE Pen Rec	ОЕРТН	Casing Blows per foot	Sample Depths From - To	Type of Somore	From	Somple	0	Moisture Density or Consist	Strota Change Elev	SOIL IDENTIFICATION Remarks include color gradation, Type of soil etc. Rocx-color, type, condition, hard- ness, Oriling time, seams and etc.	SAM!
		2'-4'	D	11	10	19			14" Black Top - 1'6" Concre & Brick Dark Brown medium to fine SAND, some fine gravel, some silt - Fill		24"12"			42'-44'	D	8	.8	14		431	Gray varved Silty CLAY, trace of fine gravel	10 24
		7'-9'	D D	6	7	6 5 10		7'	Brown fine SAND, some medius sand, little silt " trace medium gravel-Fill					47'-49'	D	18	27	29		50'		11 2
		12'-14'	D	13	2	2 3		12'6"	Black Gray sandy Organic SILT	4	24"12"			52'-54'	D	48	40	39 34			Gray compact medium to fine SAND & fine to medium Gravel, some silt Till	12 2
		17'-19'	D	P	P	3			Gray sandy SILT, trace organic	3	24"24"			57'-59'	D	31	33	55 91				13 2
		221-241	D	5	5	3 4		26'	Gray sandy SILT, some medium sand (layered) trace of fibers	6	24"24"			62'-63'	D	98	88			63'	Dark Gray compact TILL, trace of Shale Fragments Bottom of Boring 63'	14 1
		27'-29'	D	11	14	17			Gray medium to coarse SAND & fine to medium Gravel, little silt	7	24'18''											
		32'-34'	D	24	16	21 15		33'9"	Gray Clayey SILT	8	24'12"				E							
		37'-39'	D	13	13	11 12				9	24"24"											
50	mple Typ	SURFACE TO _ pe ored Wilkings Ded Fision AtAuger Vivo		1	troce hitle	USED tions Ut 0 to 10 10 to 20 20 to 3	% Cone	14010 WI	se 0.4 Solt 30 + Hord Roce tense 4.8 M/Stiff Sar	SUM!		So D: i	Dry C+C	SURFACE TO _			Proportion trace Strie	USED ons Use O to 10° 10 to 20° 2010 35°	% Cone	CASING: 1401b W1, z : sionless De -10 Loc	30" foll on 2" 0.0. Sampler costly Cohesive Consistency Earth cost 0-4 Soft 30 + Hard Rock	SUMMAR Borng . Coring .

6/16/2021

RMA

UNIFIED VISION FOR DOWNTOWN PUBLIC SPACES
(UVD | PVD)

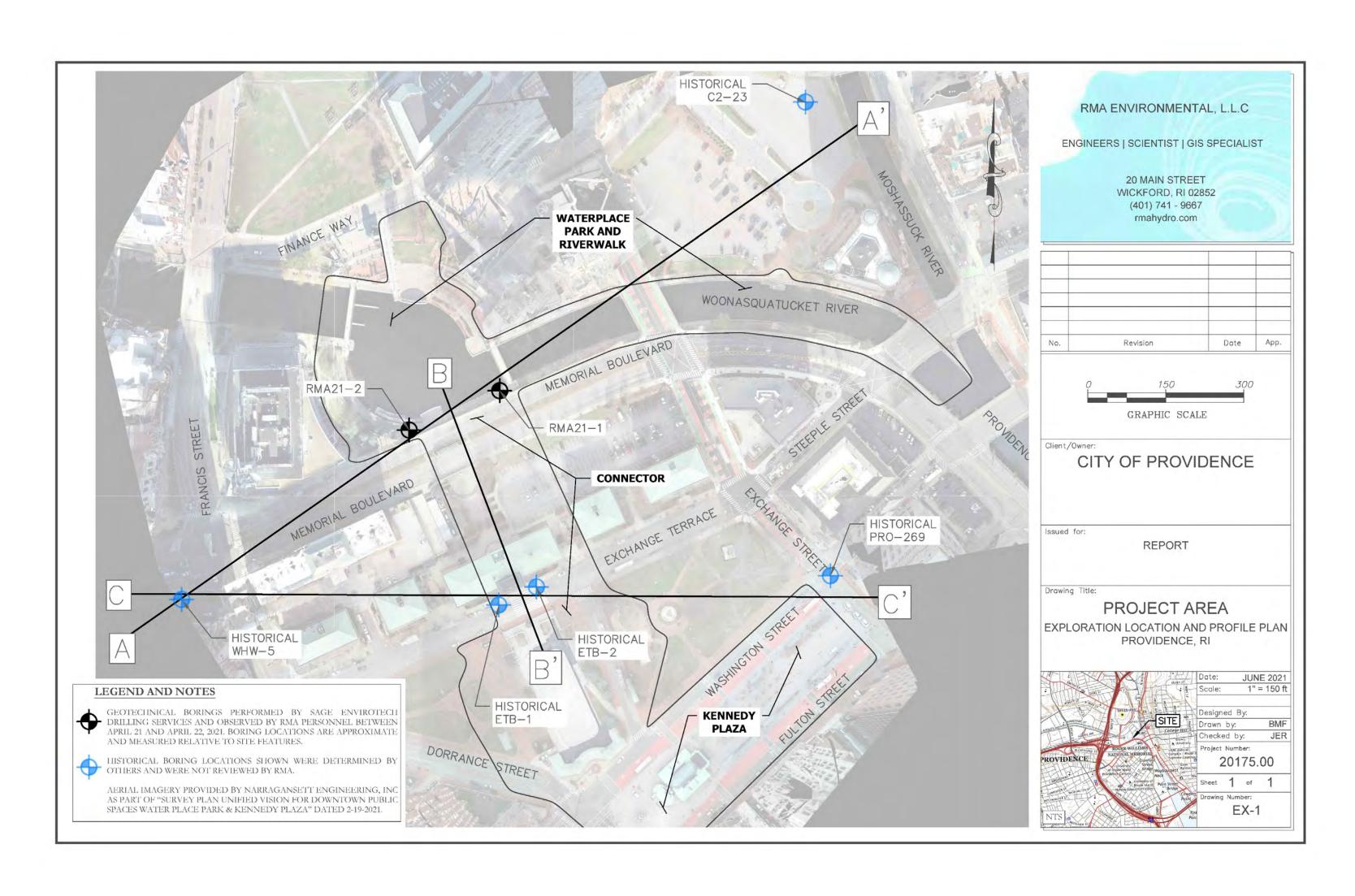
SAGE | INNER TECH | FWE | NEI

WATERPLACE PARK AND RIVERWALK SUBSURFACE EXPLORATION

ARUP | RMA

A geotechnical subsurface exploration program consisting of two (2) borings (RMA21-1 and RMA21-2), was undertaken to provide preliminary geotechnical feasibility recommendations for the proposed improvements along the Riverwalk, which are understood to reportedly include raised cantilevered walkways and a new pedestrian bridge, formerly referred to as the "Connector." Concurrently with the geotechnical exploration, an environmental evaluation was conducted on the Site's soil within the respective borings. The purpose of this evaluation is to assess the construction integrity and subsurface conditions of the seawall and supporting soil beneath the Riverwalk and assess environmental contamination parameters through field screening techniques and laboratory analyses.

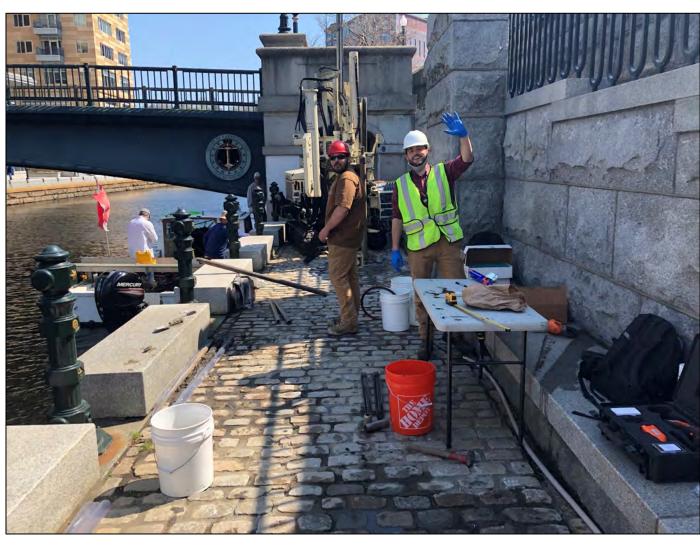
The subsurface exploration program was performed by SAGE EnviroTech Drilling Services of Pawtucket, Rhode Island and observed by RMA personnel between April 21 and 22, 2021.











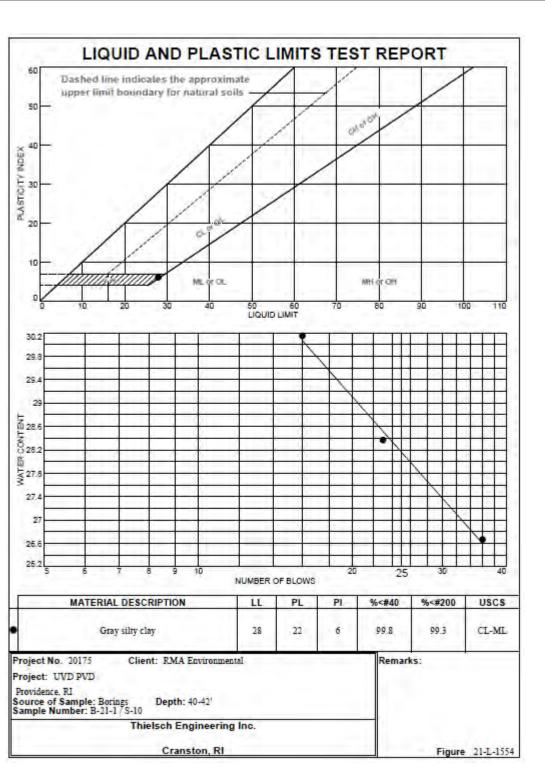
UNIFIED VISION FOR DOWNTOWN PUBLIC SPACES

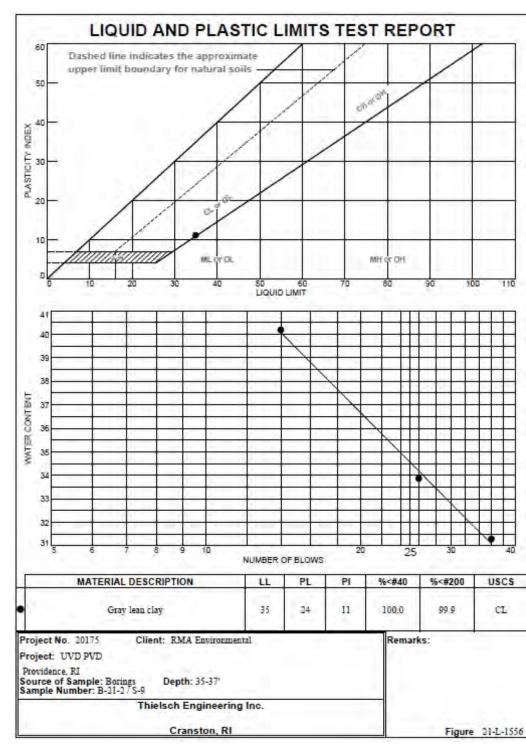
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ARUP | RMA

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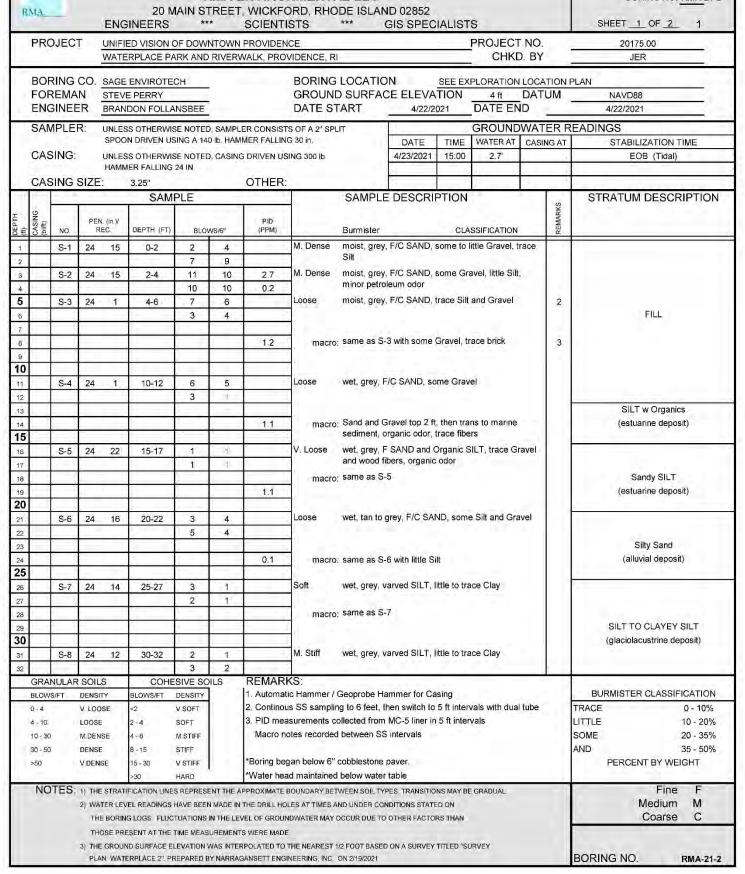
- **Fill** typically consisted of moist to wet, grey, Silty Sand (SM) to Well-Graded Sand with Silt and Gravel (SW-SM). The relative abundance of silt and gravel varied throughout the layer. Standard Penetration Tests performed in this stratum typically indicate a loose density.
- Estuarine typically consisted of wet, grey to black, Organic Silt (OH) to Sandy Silt (ML). Standard Penetration Tests performed in this stratum typically indicate a very loose density.
- **Alluvial** typically consisted of wet, tan to grey, Silty Sand (SM) to Silty Sand with Gravel (SM). Standard Penetration Tests performed in this stratum typically indicate a medium dense density.
- **Glaciolacustrine** typically consisted of wet, grey, Silt (ML) to Clayey Silt (ML-CL). Standard Penetration Tests performed in this stratum typically indicate a medium dense or stiff density but may vary to very soft or loose depending on the cohesion, or clay content, of the sample. This layer was not uniform.
- **Glacial** typically consisted of wet, grey, Silty fine Sand (SM). Standard Penetration Tests performed in this stratum typically indicate a dense density.





R	MA.				20 1			NVIRO	NMENTA DRD, RHO		ND 02852					BORING NO. RMA-21-1
1				ENG	SINEERS	**	*	SCIENTI	STS	***	GIS SPEC	IALIST	S			SHEET 1 OF 2 1
	PRC)JEC	Г	-		- A 3 6		PROVIDEN		r.			PROJECT			20175.00
				WATE	KPLACE P.	ARK AND	RIVER	WALK, PRO	VIDENCE, RI				CHKI	J. BY	=	JER
				_	ENVIROTE	СН				LOCATIO		_	PLORATION	7-35-7-50		
		REMA	100		E PERRY	ANCDEE			DATE ST		CE ELEVA		4 ft DATE EN	DAT	UM .	NAVD88
	F 11 4	77.7	(8)		DON FOLL				Transfer St.	300.47	4/21/2		and the second			4/21/2021
	SAN	IPLE	R:					ER CONSIST	S OF A 2" SPL G 30 in	.IT	DATE	TIME	GROUNE WATER AT	_		EADINGS
	CAS	ING:						G DRIVEN US			DATE 4/22/2021	10:30	6' 6"	CASIN	NG AT	STABILIZATION TIME EOB (Tidal)
					MER FALLING							10:30	6' 2"			river level bgs
	CAS	ING	SIZE	-	3.25"			OTHER:								
			L. Zao S		SAN	IPLE		1	40	SAMPL	E DESCRI	PTION			SX.	STRATUM DESCRIPTION
Ê	CASING (bl/ft)	NO.	PEN. (in.)/ REC.		DEPTH (FT)	BLO	NS/6"	PID (PPM)		Burmister		CLA	SSIFICATION		REMARKS	
1	- 4	S-1	24	13	0-2	3	3	-	Loose		vn, F/C SANI	, little to t	race Silt, tra	ce	-	
2	=	0.0	0.4	-	2.	3	1	6.2	V. Loose	Gravel	F/C SAND, s	me to littl	e Silt trace	Graval		
3		S-2	24	5	2-4	2	2	0.2	V. LOUSE	wer, grey,	JO SAND, S	wie in IIII	com, nace	Olavel	2	
5	T	S-3	24	6	4-6	2	2		Loose		odk brn, F/C			ravel,		FILL
5						4	5			trace debri	s (wood), (or	anic ordo	r)			
7								0.2		same ac C	-3, trans to o	ganic SII	T. trace clay	95-	3	
8								0.2	macro	10 ft	S, 114115 to 0	Service OIL	. , acc cidy	5.5	3	
10									1							
11		S-4	24	6	10-12	2	1		V. Loose	wet, grey to	o black, orga	nic SILT a	nd F/C Sand	, trace	4 1	SILT w Organics
12						0	0		7.	WOOG						(estuarine deposit)
13								0.1	macro	intermittent	nt debris, brick fragments					Sandy SILT
15															1 34	(estuarine deposit)
16		S-5	24	5	15-17	1	1		V. Loose	wet, grey,	F/M SAND ar	d SILT, tr	ace Clay			
17						2	3		macro	Company Commission	E/O C 44.15	and the second	SU T			
19								0.2	macio.	Gravel	F/C SAND ar	u to some	SILI, SOME			
20									Silvers.	N.O.C.		Sec. 10				TANKE TO TANKE
21		S-6	24	7	20-22	9	8		M. Dense	wet, grey,	M/C SAND a	id Gravel,	little SILT	4 1		SILTY SAND
22						8	8									(alluvial deposit)
24	II				11			0.1	macro	same as S	-6					
25	4		1		2000					mar best	- FIG 644	D 1995- C		out:		
26 27		S-7	24	10	25-27	6	6		Loose	wet, light g	rey, F/C SAN	u, little Si	ii, trace Grav	vei		
28						U			macro	same as S	-7, transition	o S-8 at 2	27'			
29								0.2								
30		0.0	n.	40	20.20				M. Stiff	wet arev	varved SILT,	little Clay				SILT TO CLAYEY SILT
31		S-8	24	12	30-32	3	3 5		W. Suit	wer, grey,	varveu OILI,	nuc Clay				(glaciolacustrine deposit)
	GRAN	NULAR	SOIL	S	СОН	ESIVE SC		REMARI								
	BLOWS		DENS		BLOWS/FT	DENSITY			ic Hammer /				ale come	11.36		BURMISTER CLASSIFICATION
	0 - 4 4 - 10		V. LOOSE		<2 2-4	V.SOFT SOFT			is SS samplir isurements co					tube		TRACE 0 - 10% LITTLE 10 - 20%
	10-30		M.DEN		4 - 8	M.STIFF			otes recorded							SOME 20 - 35%
	30 - 50		DENS		8 - 15	STIFF										AND 35 - 50%
	>50		V.DEN	SE	15 - 30	V.STIFF		1 Towns 1 To 1	gan below 6"		A Library					PERCENT BY WEIGHT
	NO	TES:	il Tir	STDAT	>30	HARD S REPRES	ENT THE A	The state of the state of the	id maintained BOUNDARY BET	CAMPAGING DOOR	Charles Constitution	NS MAY DE	GRADUAL			Fine F
	140		2) WA	TER LEV	EL READINGS	HAVE BEE	MADE IN	THE DRILL HO	BOUNDARY BET LES AT TIMES À IDWATER MAY (ND UNDER CO	NDITIONS STAT	ED ON	GRADUAL.			Medium M Coarse C
								S WERE MADE		10.00	n ou :		nuri:			
			3) THE	GROUN	ND SURFACE F	LEVATION	WAS INTER	RPOLATED TO	THE MEAREST 1	12 FOOT BASE	DOM A CHIEVE	TITLE TO HOLD	DVEV			

RMā,	-	g.co		MAIN ST	TEET,	NICKFOR		E ISLAND 02852		BORING NO. RMA-21-1
DD	O IFO		SINEERS	***	19 N. ** 17	SCIENTIS	,,,	*** GIS SPECIALISTS	-	SHEET 2 OF 2 2
PR	OJEC		FIED VISION TERPLACE P		1001			PROJECT NO. CHKD. BY		20175.00
1	`	_		1PLE				SAMPLE DESCRIPTION		STRATUM DESCRIPTION
NG		PEN. (in.)				PID			REMARKS	
(#) CASING (bl/ft)	NO.	REC.	DEPTH (FT)	BLO	WS/6"	(PPM)		Burmister CLASSIFICATION	REIV	
3						0.1	macro	same as S-8		
5	+		4			0.1				
3	S-9	24 15	35-37	3	6		Stiff	wet, grey, varved SILT, little to trace Clay		
7				7	6					
9						0.1	macro	same as S-9		SILT TO CLAYEY SILT
0										(glaciolacustrine deposit)
1	S-10	24 11	40-42	6	7		Stiff	wet, grey, varved SILT, little Clay		
2				8	9		1			
1				7 6 4		0.1	macro	same as S-10	4	
5				7 = 4						
3 7										
3				(22)		0.1	macro	same as S-10 with F/C Sand		
9										
0	S-11	24 10	50-52	6	5		Stiff	wet, grey, varved SILT, little Clay		
2	0-11	24 1	30-32	6	9			37,		
3:								Later Company of the Company		
5						0.2	macro	: wet, grey, compact, F SAND, some Silt		
5	S-12	24 12	55-57	13	14		Dense	wet, grey, F SAND and SILT, little Gravel, trace C		
7				25	15			Sand and Clay		Glacial
B:	-		+				macro	; same as S-12		(glacial deposit)
0							Macro	, same as one		
1	S-13	24 14	60-62	26	17		Dense	wet, grey, F SAND and SILT, little Gravel, trace C Sand and Clay		co. Advertistado
3				23	18			Sand and Clay	100	END OF BORING 62' Exceeded Schedule Depth
4										Exocoded dolleddio Dopin
5										Boring Closed
7				P 40						Bentonite Seal to Approx. Water Table Then, sand fill to grade
3										Cobblestone reinstalled and grouted
9							1			
0										
2										
3										
GRA	ANULAF	SOILS	СОН	ESIVE SC	ILS	REMAR	KS:		100	
	NS/FT	DENSITY	BLOWS/FT	DENSITY	r = 1	4.Dual tube				BURMISTER CLASSIFICATION
0-4		V. LOOSE	<2	V.SOFT						TRACE 0 - 10%
4 - 10		LOOSE M.DENSE	2 - 4 4 - 8	SOFT M.STIFF						LITTLE 10 - 20% SOME 20 - 35%
30 - 5		DENSE	8 - 15	STIFF						AND 35 - 50%
>50		V.DENSE	15 - 30	V.STIFF HARD						PERCENT BY WEIGHT
NO	OTES:	1) THE STR	>30 ATIFICATION LIN		I ENT THE A	PPROXIMATE	BOUNDARY BET	WEEN SOIL TYPES, TRANSITIONS MAY BE GRADUAL.		Fine F
								ND UNDER CONDITIONS STATED ON		Medium M
								OCCUR DUE TO OTHER FACTORS THAN		Coarse C
			RESENT AT THE UND SURFACE E					/2 FOOT BASED ON A DRAWING TITLED: "SURVEY		
			ATERPLACE 2", F							BORING NO. RMA-21-1

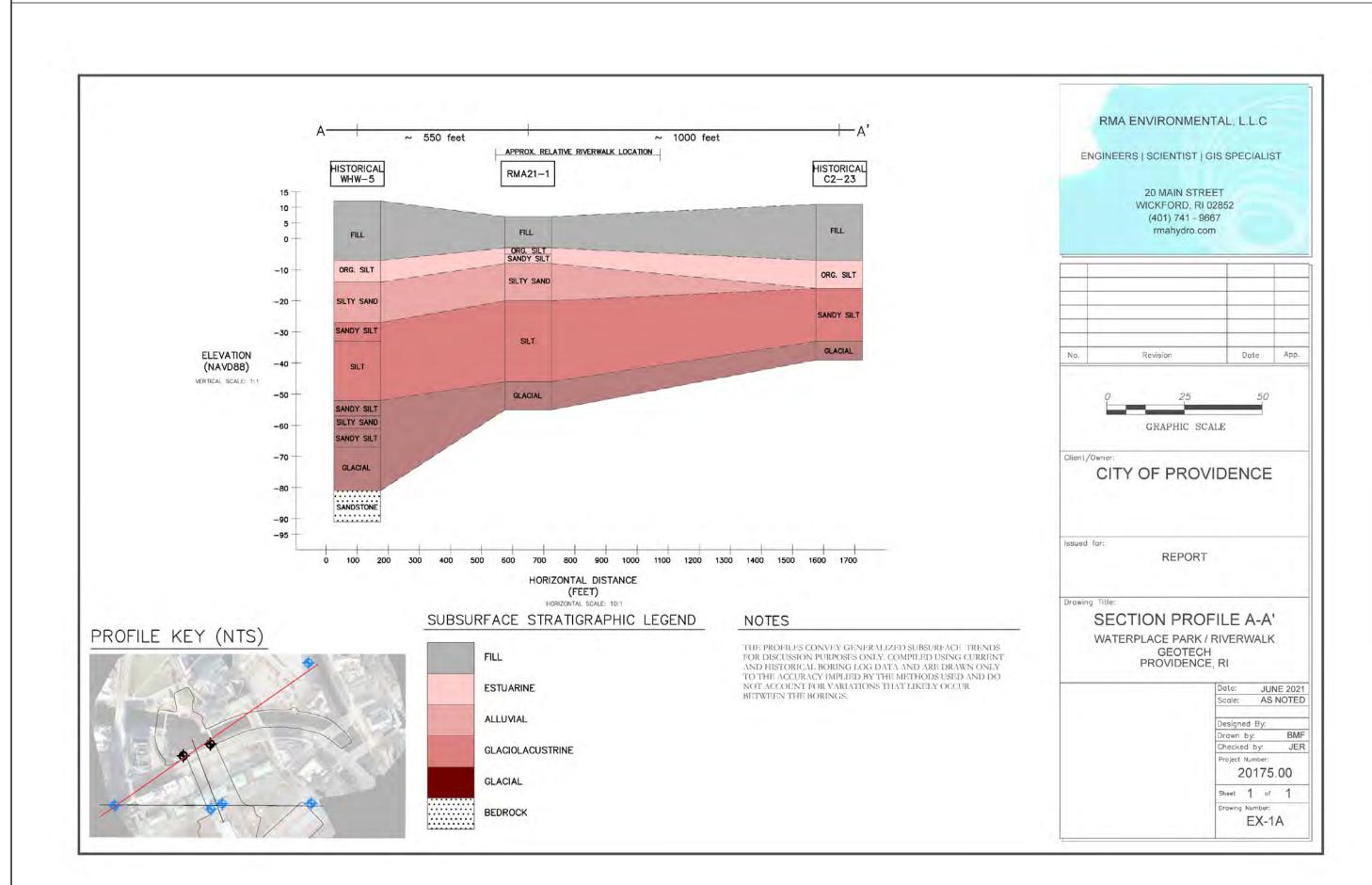


100	vi A_	L	450			EET, V	VICKFOR		E ISLAND 02852			BORING NO. RMA-21-2
			ENG	INEERS	***	S	CIENTIS	STS	*** GIS SPECIALISTS			SHEET 2 OF 2 2
F	PRC	JECT	-	ED VISION				C1-7-13-7-1		PROJECT NO.	-	20175.00
		1 1	WATE	ERPLACE PA	ARK AND	RIVERW	/ALK, PRO	VIDENCE, F		CHKD. BY		JER
				SAM	PLE				SAMPLE DESCRIPTION		s	STRATUM DESCRIPTION
(#)	(bl/ft)	NO.	PEN. (in.)/ REC.	DEPTH (FT)	BLOV	VS/6"	PID (PPM)		Burmister CLAS	SIFICATION	REMARKS	
33	- 1							macro	: same as S-8		-	
34		== 1			1							
35				72.7				10 2e2	AU + WE AU			
36	-	S-9	24 24	35-37	1-11	1		V. Soft	wet, grey, varved SILT, little Clay			SILT TO CLAYEY SILT (glaciolacustrine deposit)
37 38	-	-	-		1	1		-			ы	(glaciolacusti ille deposit)
39								macro	same as S-9,		4	
10								,,,idor	Annual De G. M.			
41		S-10	24 24	40-42	2	3		M. Stiff	wet, grey, varved SIL, little to trace	ce Clay		
42					4	2						END OF BORING 42'
1												Reached Schedule Depth
44												200 A 100 B
15		- 1										Boring Closed
46 47				1								Bentonite Seal to Approx. Water Tab Then, sand fill to grade
48												Cobblestone reinstalled and grouted
49		- 1				_	7					5 222 232 300 150 150 150 talled grouter
50	-1	:			-		-					
51							-					
52		= 1			1			1				
53								1				
54												
55								4				
56 57												
58												
59												
30		== [
61					1							
62												
63			-									
64 3 5		-	-					7				
66					•			1				
67							j					
68												
69												
70												
71 72			_									
73												
74												
	GRAN	IÚLAR	SOILS	СОНЕ	SIVE SO	ILS	REMAR	KS:				TOWNS OF THE PARTY
В	BLOWS		DENSITY		DENSITY		1				Щ	BURMISTER CLASSIFICATION
	- 4		V. LOOSE	<2	V.SOFT						- 1	TRACE 0 - 10%
	- 10		LOOSE	2 - 4	SOFT							LITTLE 10 - 20% SOME 20 - 35%
	0 - 30		M DENSE DENSE	4 - 8 8 - 15	M.STIFF STIFF						- 11	SOME 20 - 35% AND 35 - 50%
	-50		V.DENSE	15-30	V.STIFF						M	PERCENT BY WEIGHT
	-7			>30	HARD							S = e HEIGH
	NO		2) WATER LEY	IFICATION LINE VEL READINGS	S REPRESE	MADE IN 1	THE DRILL HO	LES AT TIMES	WEEN SOIL TYPES, TRANSITIONS MAY B IND UNDER CONDITIONS STATED ON	E GRADUAL.		Fine F Medium M
									OCCUR DUE TO OTHER FACTORS THAN			Coarse C
				ESENT AT THE					/2 FOOT BASED ON A DRAWING TITLED: "	DI IDI ICI		
			THE GROUN	CHERRACE EL				OF NEADECT				

UNIFIED VISION FOR DOWNTOWN PUBLIC SPACES (UVD | PVD)

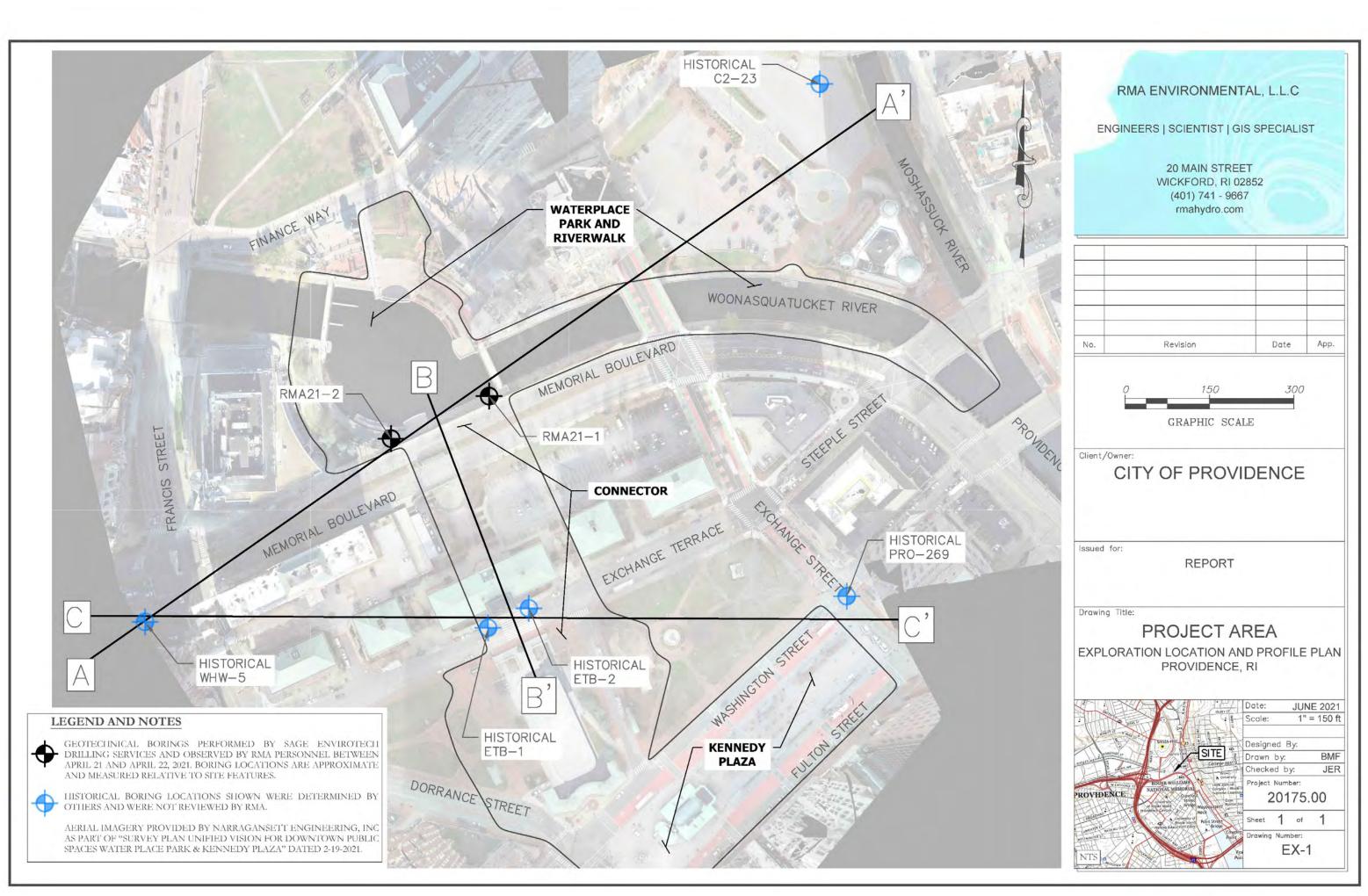
ARUP | RMA

SAGE | INNER TECH | FWE | NEI



RANGES OBSERVED

N & A TITE DIA I	RM	A21-1	RM	A21-2
MATERIAL	Depth	Elevation (NAVD88)	Depth	Elevation (NAVD88)
Fill	0 to 10 feet	4 to (-6) feet	0 to 12 feet	4 to (-8) feet
Estuarine	10 to 15 feet	(-6) to (-11) feet	12 to 20 feet	(-8) to (-16) feet
Alluvial	15 to 27 feet	(-11) to (-23) feet	20 to 25 feet	(-16) to (-21) feet
Glaciolacustrine	27 to 53 feet	(-23) to (-49) feet	25 to 42 feet	(-21) to (-38) feet
Glacial	53 to unknown	(-49) to unknown	Not Evaluated ²	Not Evaluated ²
EOB^1	62 feet	(-58) feet	42 feet	(-38) feet
Groundwater	6 feet (tidal)	(-2) feet	2.7 feet (tidal)	1.3 feet



ONIFIED VISION FOR DOWNTOWN PUBLIC SPACES

(UVD | PVD)

SAGE | INNER TECH | FWE | NEI

ENVIRONMENTAL LAB RESULTS

ARUP | RMA

SAGE | INNER TECH | FWE | NEI

To understand general soil conditions, four representative samples collected during the investigation were submitted to a certified laboratory for analysis of volatile organic compounds (VOCs), poly-nuclear aromatic hydrocarbons (PAHs), total petroleum hydrocarbon (TPH), Resource Conservation Recovery Act (RCRA) 8 total metals, and poly-chlorinated biphenyls.

The following exceedances were found:

- RMA21-1: 0-5 feet BSG Arsenic exceeding Method 1 Residential Direct Exposure Criteria (R-DEC) and Industrial/Commercial Direct Exposure Criteria (I/C-DEC); and
- RMA21-2: 0-5 and 5-10 feet BSG benzo(a)pyrene and chrysene exceeding RIDEM R-DEC.

				SAMPLES						
Parameters	Units	RDEC	ICDEC	RMA2 0-5ft		RMA27 5-10f		RMA2 0-5ft		RMA21-2 5-10ft
<u>PAHs</u>										
Benzo(a)pyrene	mg/kg	0.4	0.8	0.181	U	0.255	-	0.538	-	0.453
Chrysene	mg/kg	0.4	780	0.181	U	0.236	-	0.458	-	0.527
Total Metals										
Arsenic	mg/kg	7	7	9.34	-	2.9	U	2.66	U	3.06

Notes:

This table represents a summary of RIDEM's Residential or Industrial/Commercial Direct Exposure Criteria exceedances, denoted by Bold/Highlighted Values. Refer to Appendix E for the full Laboratory Report. U = Analyte Undetected

Based upon the results described, the subject soil findings constitute a release as defined by the RIDEM Remediation Regulations. As such and in accordance with Section 1.6.1 of the RIDEM Remediation Regulations, a Responsible Party shall notify the RIDEM, in writing in both hard copy and electronic format (as specified by the Department), of the discovery of any Release in accordance with the requirements of this rule which was not previously reported to the Department by any Responsible Party. Any Release which requires notification pursuant to this rule shall be reported no later than 15 days after the discovery of the Release.

Furthermore, an environmental contamination consultant should be contracted to advise on the site-specific cleanup requirements. It is our understanding that the City has notified RIDEM subsequent to being notified by RMA. RIDEM will issue a Letter of Responsibility (LOR) to the City which will outline requirements to meet DEM Remediation Regulations. At a minimum, a soil managing plan (SMP) will be required during construction.

6/16/2021

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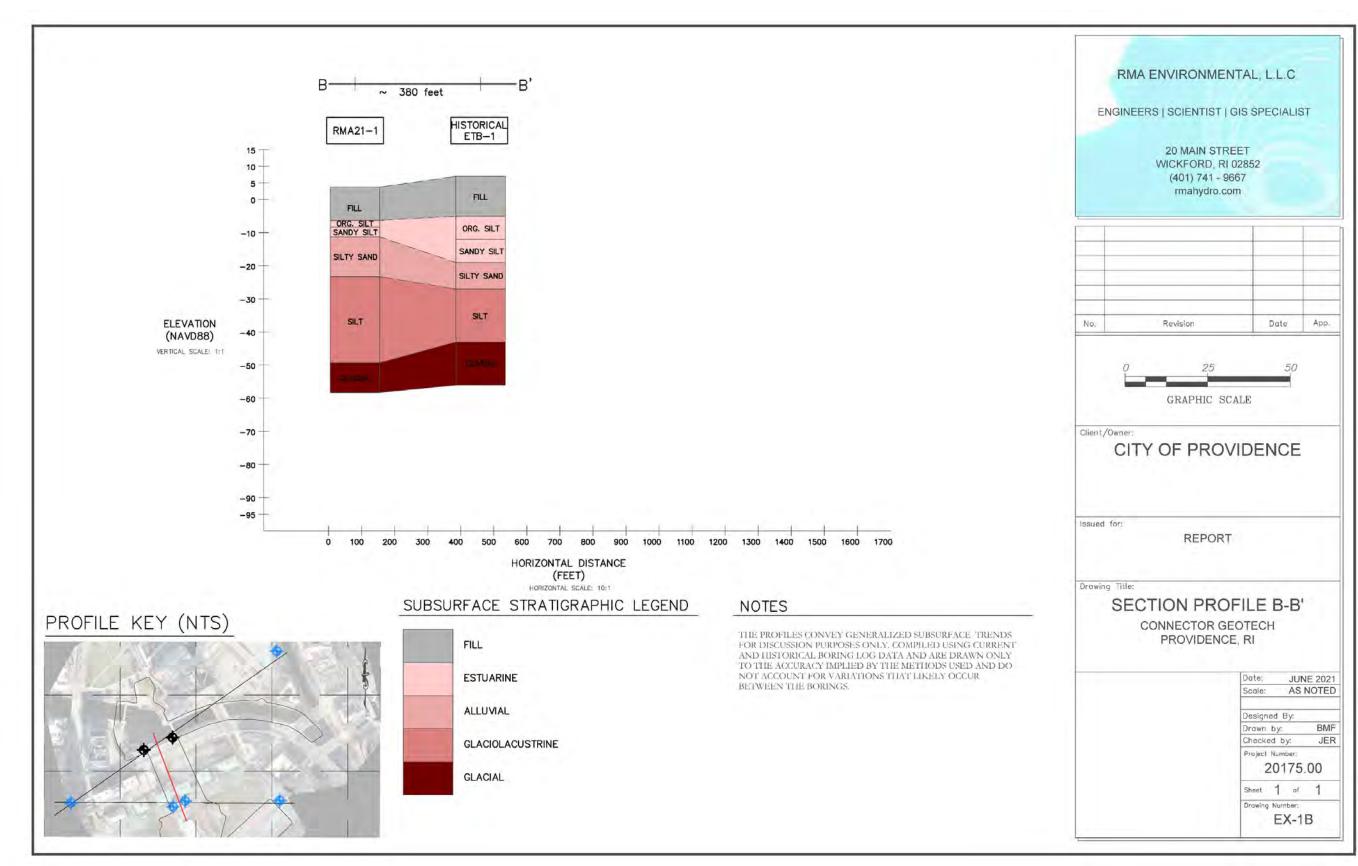
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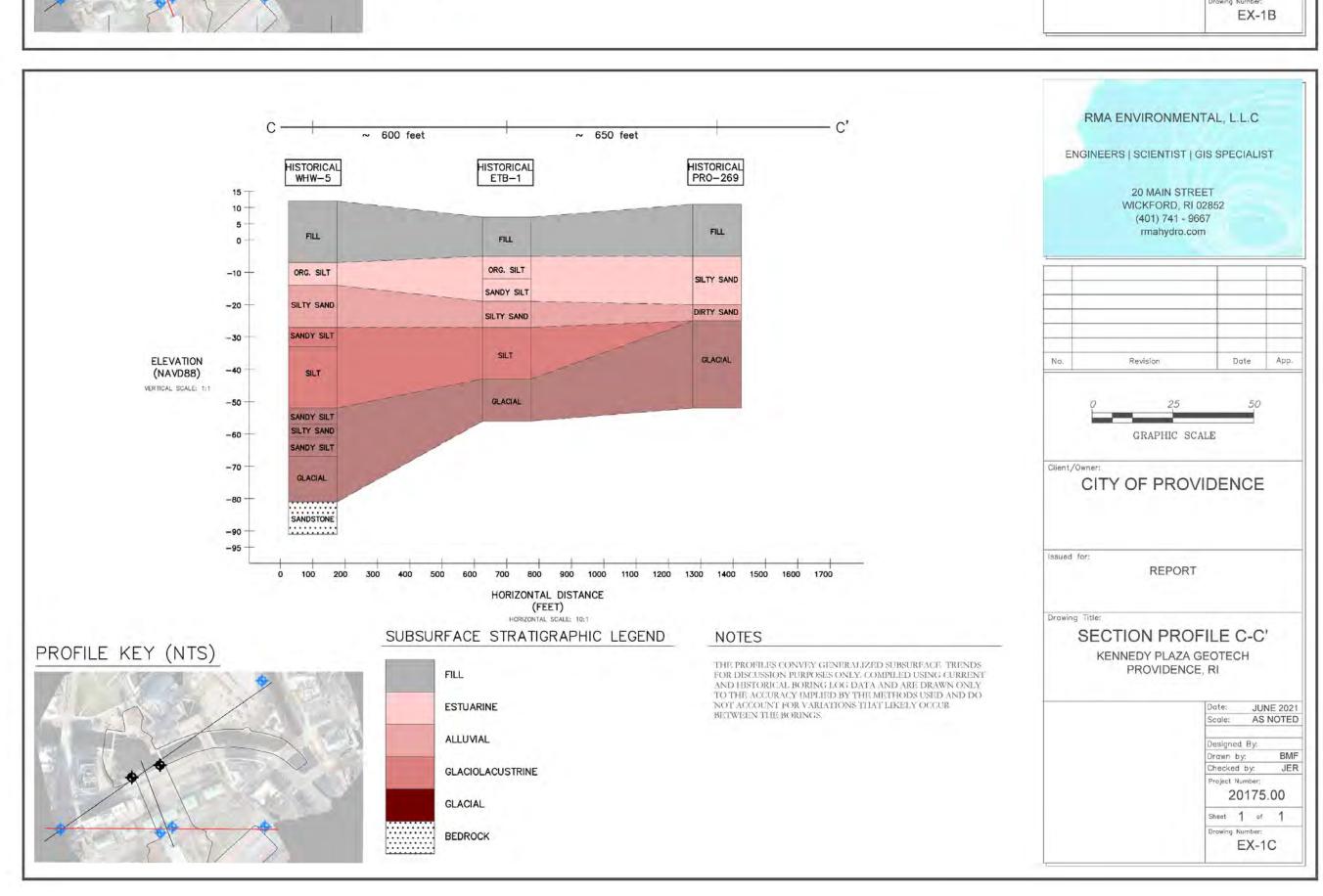
ARUP RMA

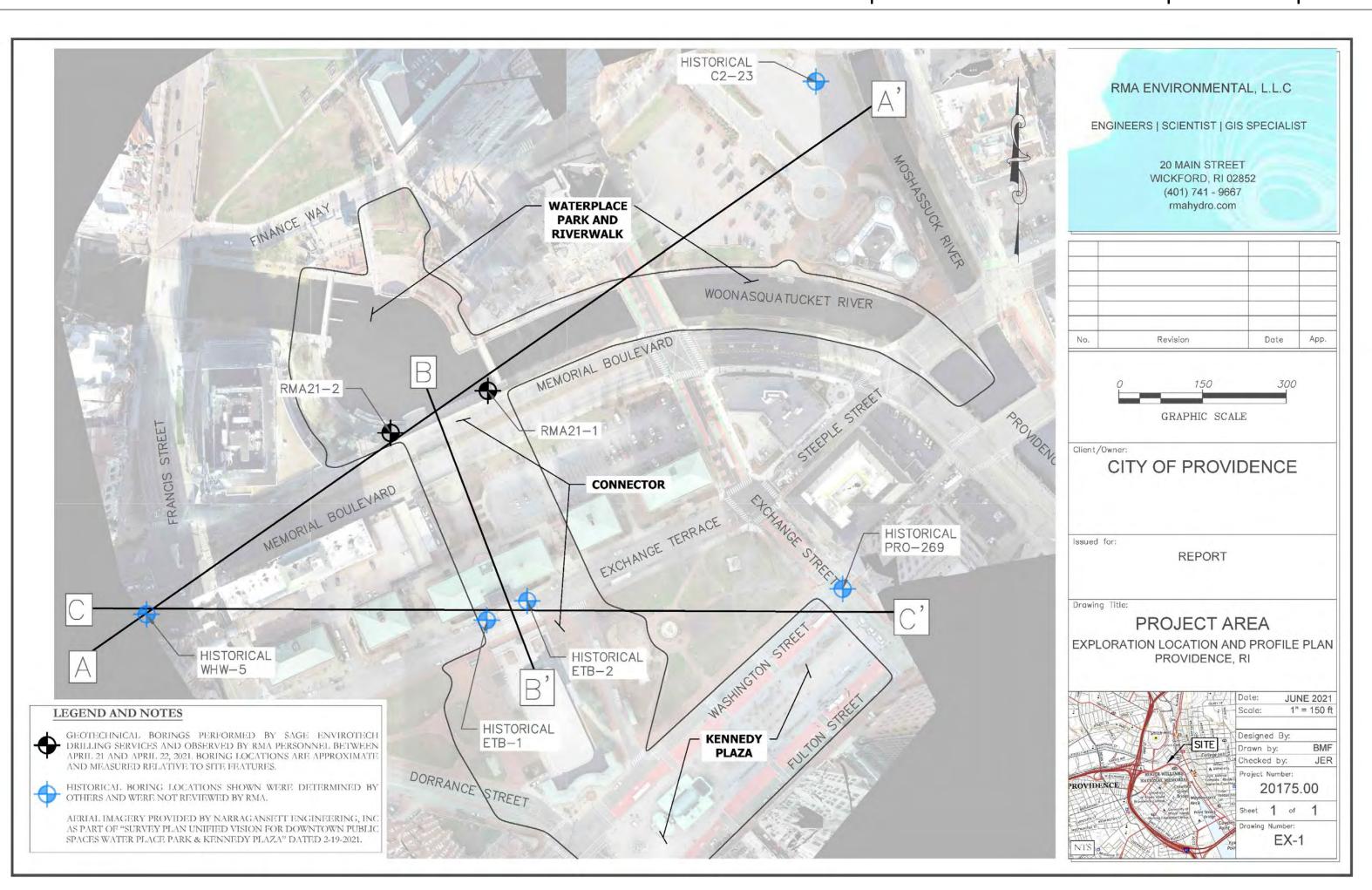
CONNECTOR AND KENNEDYPIAZA GEOTECHNICAL DATA

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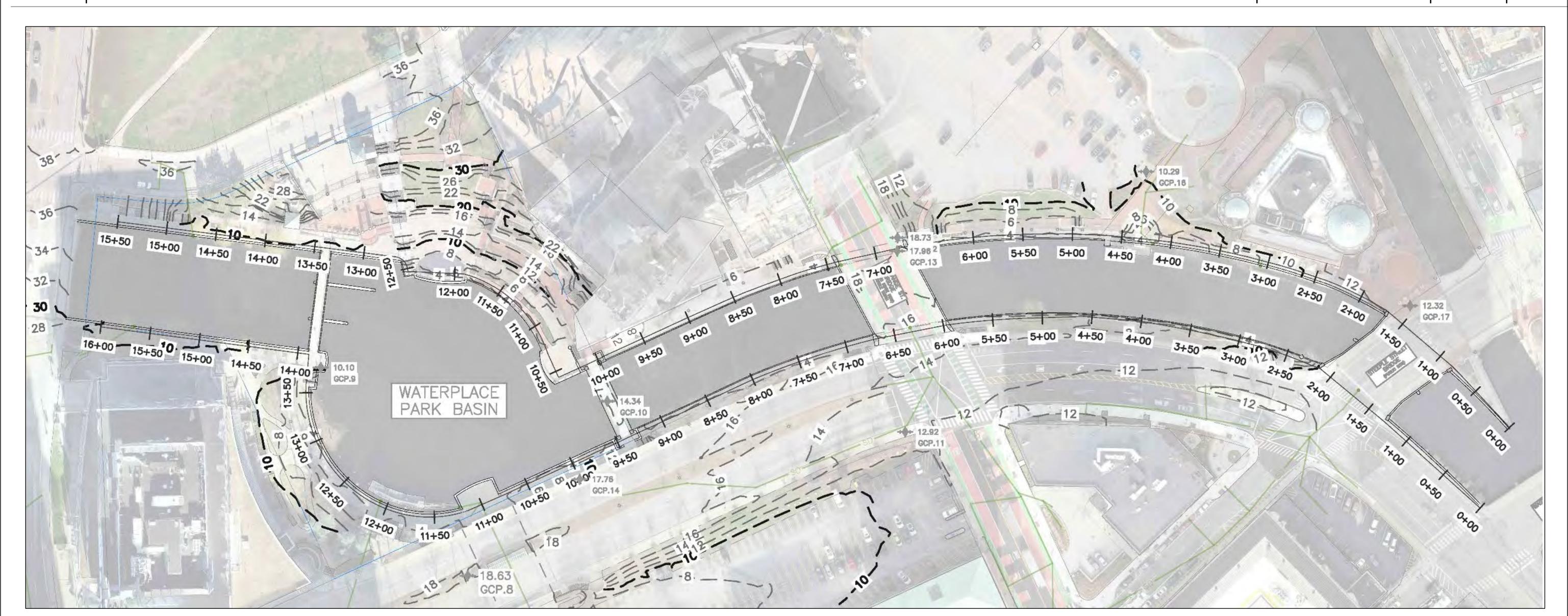
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WATERPLACE PARK AND RIVERWALL INSPECTION AND EVALUATION

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An Underwater inspection was completed at the seawall in order to evaluate structures below water elevation and those areas otherwise not accessible from the landside. As part of RMA's inspection, the landside area in the immediate vicinity of the wall was also reviewed.

For reference purposes, NEI established a baseline along the top of the seawall during the inspection with 0+00 SOUTH(S) at the downstream end of the southside end and station 14+00 SOUTH(S) on the upstream end of the South side: Similarly, stationing was established on the North side of the River from 0+00N to 13+50N. Observations were made in relation to their location along the baseline as appropriate and as noted herein.

Inner Tech completed the inspection by boat with a team comprised of two tenders and one diver. The diver was provided surface supplied air and warm water from the boat. FWE accompanied the divers team to record and summarize the divers observations.

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Ra	ting	Description
1	Good	No visible damage or only minor damage noted. Structural elements may show very minor deterioration, but no overstressing observed. No repairs are required
2	Satisfactory	Limited minor to moderate defects or deterioration observed but no overstressing observed. No repairs are required.
3	Fair	All primary structural elements are sound but minor to moderate defects or deterioration observed. Localized areas of moderate to advance deterioration may be present by do not significantly reduce the load bearing capacity of the structure. Repairs are recommended but the priority of the recommended repairs is low.
4	Poor	Advanced deterioration or overstressing observed on widespread portions of the structure but does no significantly reduce the load-bearing capacity of the structure. Repairs may need to be carried out with moderate urgency.
5	Serious	Advanced deterioration, overstressing, or breakage may have significantly affected the load-bearing capacity of the primary structural components. Local failures are possible, and loading restrictions may be necessary. Repairs may need to be carried out on a high-priority basis with urgency.
6	Critical	Very advanced deterioration, overstressing, or breakage has resulted in localized failure(s) of primary structural components. More widespread failures are possible or likely to occur, and load restrictions should be implemented as necessary. Repairs may need to be carried out on a very high-priority basis with strong urgency.

Table adapted from "Waterfront Facilities Inspection and Assessment" (Heffron, 2015)

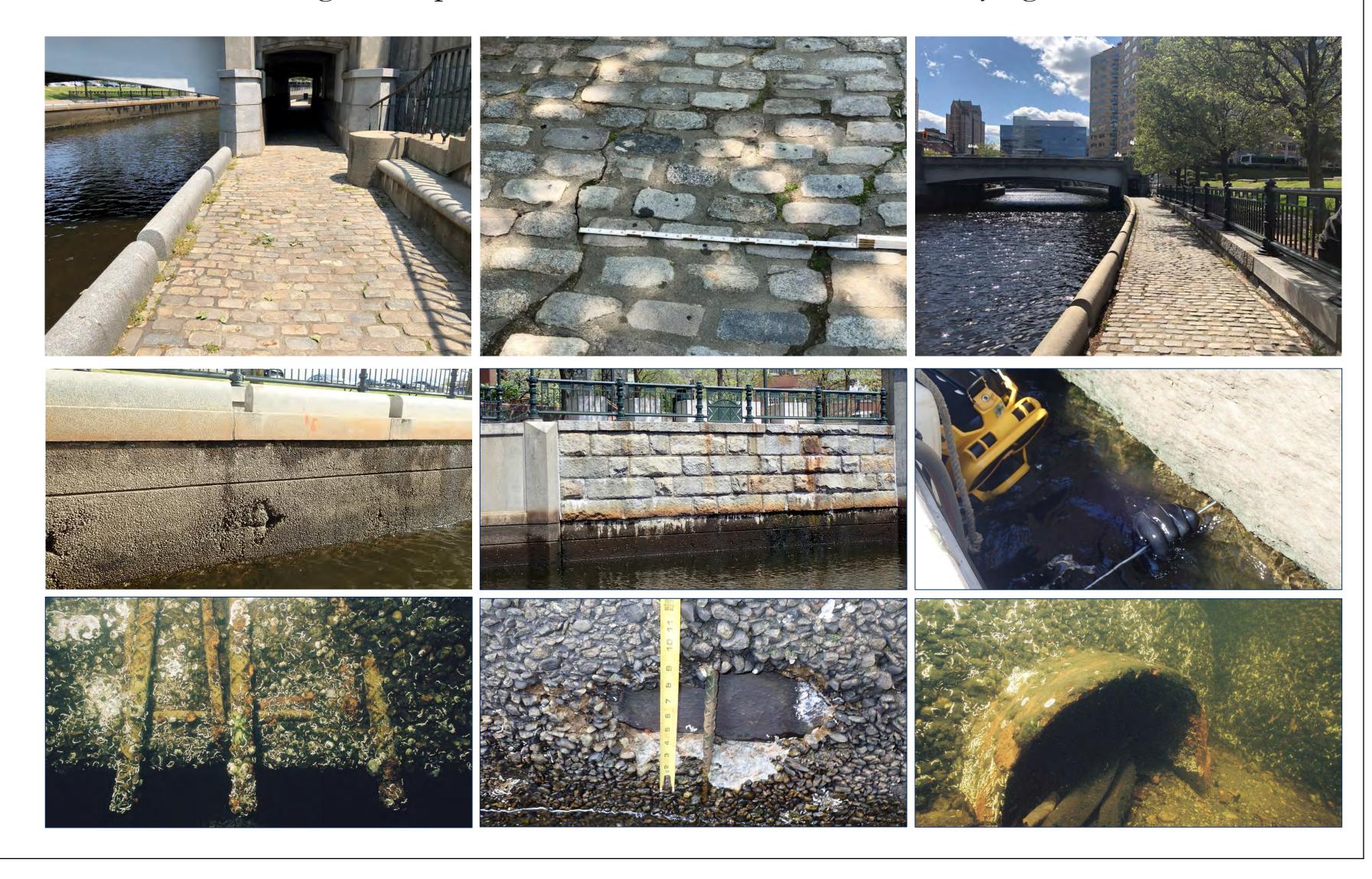
Underwater Inspection

In general, the underwater inspection indicated the face and below water (i.e. seaward) portions of the walls were generally in **Satisfactory to Fair condition** with multiple localized areas in **Poor** condition, and isolated areas in **Serious** condition. The specific deficiencies are identified in the Section 3; but include suspected movement, minor cracks and joint separation, honeycombing, scaling, spalling, exposed reinforcing steel, undermining or exposed bottom of walls, and localized piping.

Recommended maintenance and repairs are provided in the body of the report in section 4.

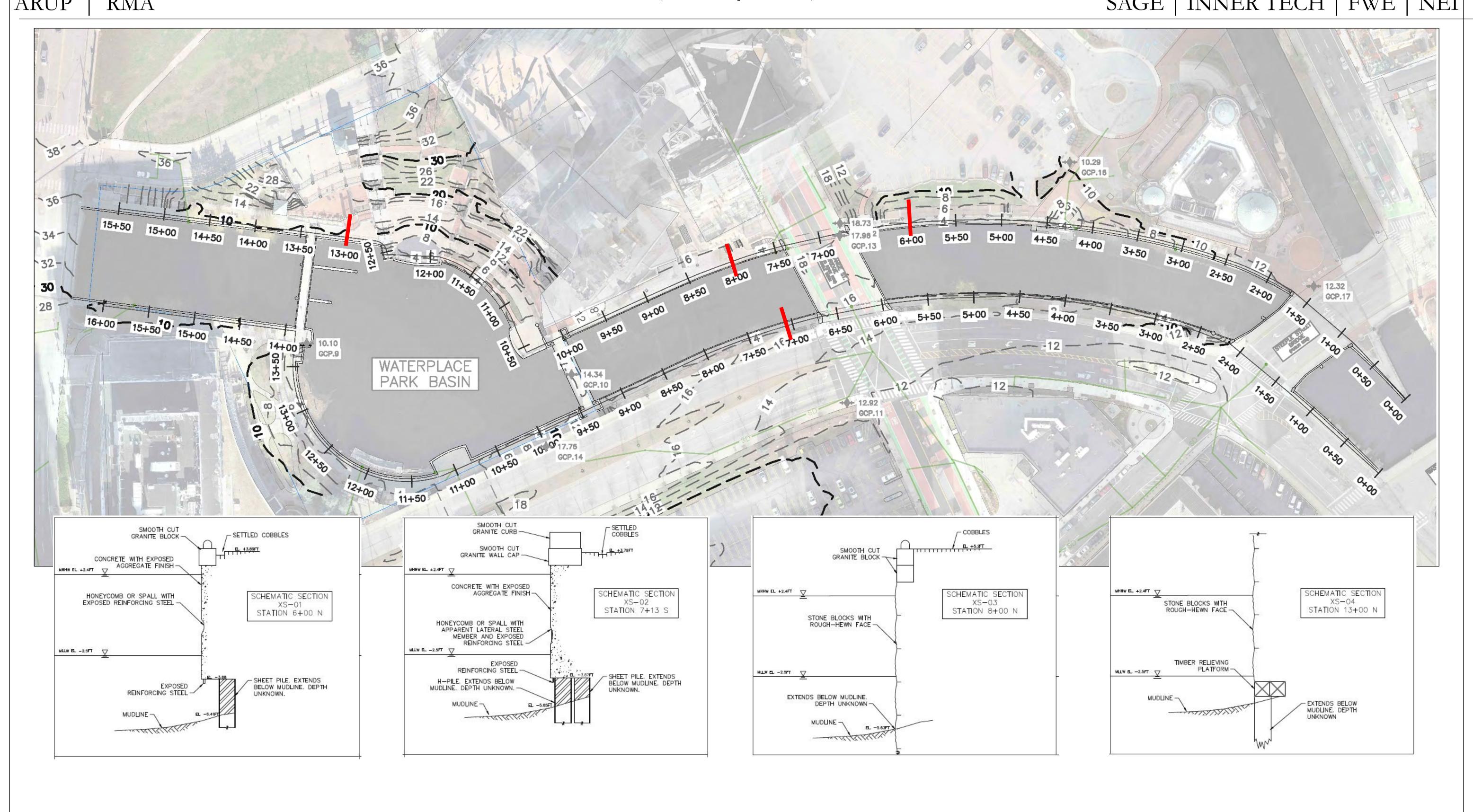
Landside Inspection

The landside surface immediately behind the wall consisted of mortared cobblestone pavers (typical), and other hardscapes surfaces. In general, the landside condition ranges from **Fair** to **Poor** with isolated areas in **Serious** [[RI]] condition. Vertical irregularities and undulations (settlement), and cracking/separation of mortar between joints were widely observed, resulting in uneven and irregular surfaces throughout. The specific deficiencies are identified in the Section 3; but include vertical irregularities, undulations, settlement, cracking and separation of mortar, and loss of underlying material.



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IMPLICATIONS OF SUBSURFACE CONDITIONS AND GEOTECHNICAL RECOMMENDATIONS

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Summary Table of Subsurface Conditions (Section 1: Riverwalk) (Borings: Historic WHW-5 and C2-23 | RMA21-1, and 2)

Material	Maximum Depth Ranges Reviewed (below Surface)	Maximum Elevation Ranges Reviewed (NAVD88)
Surface Cover Varies. Cobblestone, pavement, concrete, or other urban materials are possible.	0.0 to 0.5 Feet	12 to 3.5 Feet
Fill Silty Sand (SM) to Silty Sand with Gravel (SM); moist to wet. SPT indicated V. Loose to Loose density.	0.0 to 19 Feet	12 to (-10) Feet
Estuarine Organic Silt (OH) to Sandy Silt (ML) with trace organics; wet. SPT indicated V. Loose to Loose density.	10 to 27 Feet	(-6) to (-19) Feet
Alluvial Silty Sand (SM) to Silty Sand with Gravel (SM); wet. SPT typically indicate a medium dense density.	15 to 39 Feet	(-11) to (-27) Feet
Glaciolacustrine Silt (ML) to Clayey Silt (ML-CL), varved; wet. SPT indicated Loose or V. Soft to M. Dense or Stiff density. Layer is varved.	27 to 64 Feet	(-23) to (52) Feet
Glacial Deposit Silty fine Sand (SM); wet. SPT indicated M. Dense to V. Dense density.	44 to 93 Feet	(-36) to (-81) Feet
Weathered Rock	Not Evaluated	Not Evaluated
Intact Rock "Grey Sandstone," as indicated on historical boring WHW-5.	93 Feet to Unknown	(-81) Feet to Unknown
Groundwater:	Varies Tidally Influenced	Tidally Influenced*

^{*} For the purposes of preliminary design, assume SHWT elevation at EL. 3 feet at Riverwalk/Basin

IMPLICATIONS OF SUBSURFACE CONDITION

- Upper Layers are not suitable Bearing Stratums and may continue to settle and/or will settle if fill is placed.
 - Fill and Estuarine
- Alluvial Layer is the uppermost soil stratum potentially suitable for support of foundations.
- However, the thickness of the Alluvial layer varied across the sites and Boring data.
- Glaciolacustrine layer underlying this stratum was a medium dense or stiff but may vary to very soft or loose, and would be a very limited foundation bearing stratum for lightly loaded structures. Long term settlements may need to be evaluated further.
- The Glacial deposit underlying this layer is the next stratum suitable for larger loads, and was observed approximately between 44 and 93 feet below grade.
- If the upper Alluvial layer is either not present or not thick enough to develop the necessary capacity; the foundation system would need to extend to the Glacial stratum.

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IMPLICATIONS OF SUBSURFACE CONDITION

- Bedrock depth is variable and may range between EL. (-140') to El (-85') based on historical data
- Groundwater is tidally influenced and seasonally high values range between EL. 3' and EL. 5'
- Presence of underground structures and utilities especially at Kennedy Plaza require careful planning and coordination.



Summary Table of Subsurface Conditions (Section 2: Connector) (Borings: Historic ETB-1, 2 | RMA21-1, and 2)

Material	Maximum Depth Ranges Reviewed (below Surface)	Maximum Elevation Ranges Reviewed (NAVD88)
Surface Cover Varies. Cobblestone, pavement, concrete, or other urban materials are possible.	0.0 to 0.5 Feet	7 to 3.5 Feet
Fill Silty Sand (SM) to Silty Sand with Gravel (SM); moist to wet. SPT indicated V. Loose to Loose density.	0.0 to 12 Feet	7 to (-8) Feet
Estuarine Organic Silt (OH) to Sandy Silt (ML) with trace organics; wet. SPT indicated V. Loose to Loose density.	8 to 20 Feet	(-1) to (-19) Feet
Alluvial Silty Sand (SM) to Silty Sand with Gravel (SM); wet. SPT typically indicate a medium dense density.	15 to 34 Feet	(-11) to (-27) Feet
Glaciolacustrine Silt (ML) to Clayey Silt (ML-CL), varved; wet. SPT indicated Loose or V. Soft to M. Dense or Stiff density. Layer is varved.	25 to 53 Feet	(-21) to (-49) Feet
Glacial Deposit Silty fine Sand (SM); wet. SPT indicated M. Dense to V. Dense density.	44 to 63 Feet	(-37) to (-56) Feet
Weathered Rock	Not Evaluated	Not Evaluated
Intact Rock Not encountered at boring terminal depths. Local geology suggests grey sandstone (grey to black shale fragments noted in ETB series)	70 feet(*refusal) to 147 Feet *estimated	(-64) Feet to (-140) Feet *estimated
Groundwater	Varies Tidally Influenced	Tidally Influenced**

^{**} For the purposes of preliminary design, assume SHWT elevation between 3 and 5 feet at Connector



Summary Table of Subsurface Conditions (Section 3: Kennedy Plaza) (Borings: Historic WHW-5, ETB-1, 2, and PRO-269)

Material	Maximum Depth Ranges Reviewed (below Surface)	Maximum Elevation Ranges Reviewed (NAVD88)
Surface Cover Varies. Cobblestone, pavement, concrete, or other urban materials are possible.	0.0 to 0.5 Feet	12 to 6.5 Feet
Fill Silty Sand (SM) to Silty Sand with Gravel (SM); moist to wet. SPT indicated V. Loose to Loose density.	0.0 to 19 Feet	12 to (-7) Feet
Estuarine Organic Silt (OH) to Sandy Silt (ML) with trace organics; wet. SPT indicated V. Loose to Loose density.	8 to 26 Feet	(-1) to (-20) Feet
Alluvial Silty Sand (SM) to Silty Sand with Gravel (SM); wet. SPT typically indicate a medium dense density.	25 to 39 Feet	(-18) to (-27) Feet
Glaciolacustrine Silt (ML) to Clayey Silt (ML-CL), varved; wet. SPT indicated Loose or V. Soft to M. Dense or Stiff density. Layer is varved.	30 to 64 Feet	(-23) to (52) Feet
Glacial Deposit Silty fine Sand (SM); wet. SPT indicated M. Dense to V. Dense density.	36 to 93 Feet	(-25) to (-81) Feet
Weathered Rock	Not Evaluated	Not Evaluated
Intact Rock		
Not encountered at boring terminal depths. Local geology suggests grey sandstone (grey to black shale fragments noted in ETB series)	96 feet to 147 Feet *estimated	(-85) Feet to (-140) Fee *estimated
Groundwater	Varies Tidally Influenced	Tidally Influenced**

^{**} For the purposes of preliminary design, assume SHWT elevation between 3 and 5 feet at KP

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RECOMMENDATIONS

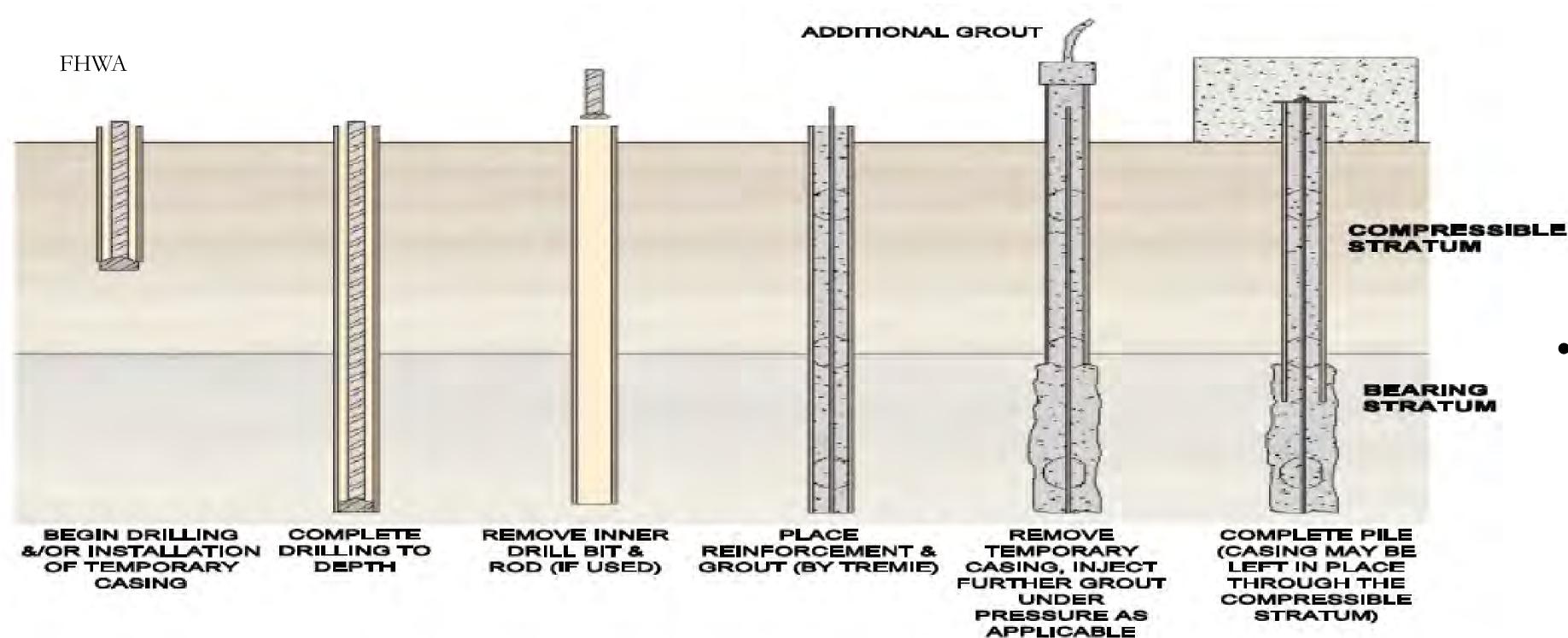
RIVERWALK | WATERPLACE PARK

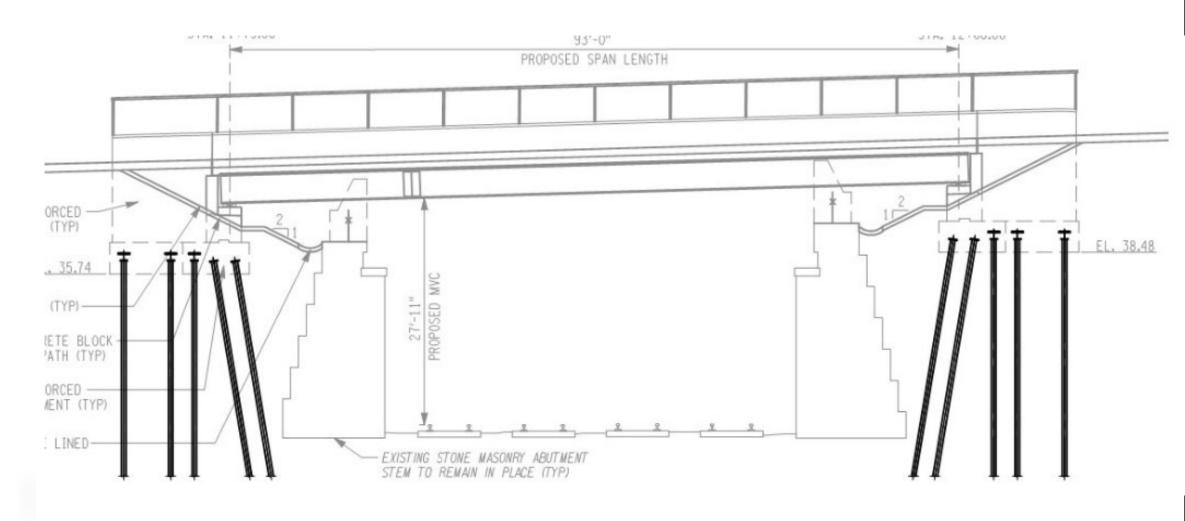
• Riverwalk Piers

- **Drilled (Friction) Micropile:** moderate pile capacity (floating) limited access situations, adjacent to vibration-sensitive structures low vibration
- Consist of a combination of steel casing, threaded bar, and grout.
- Process: 1) advancing the steel casing to a predetermined design depth using rotary-wash or compressed-air drilling methods, 2) filling the casing with grout, 3) inserting a central threaded bar through the grout, and 4) withdrawing or partially withdrawing (to increase lateral capacity) the casing to create a bond zone between the grout and surrounding soil

• Pedestrian Bridge

- **Drilled (Rock) Micropile:** - high-capacity, (Socketed to Rock) limited access situations, adjacent to vibration-sensitive low vibration
- Consist of a combination of steel casing, threaded bar, and grout.
- **Process:** 1) advancing the steel casing to a predetermined design depth using rotary-wash or compressed-air drilling methods, 2) filling the casing with grout, 3) inserting a central threaded bar through the grout, and 4) eaving the casing to the full depth and socketing the element to rock..





RIDOT

Retaining Wall and Critical Infrastructure (stormwater. Etc)

- Shallow (< 3 ft)
- **Helical Piles-** low to moderate pile capacity no vibration cost effective
- See Kennedy Plaza info for more info and values

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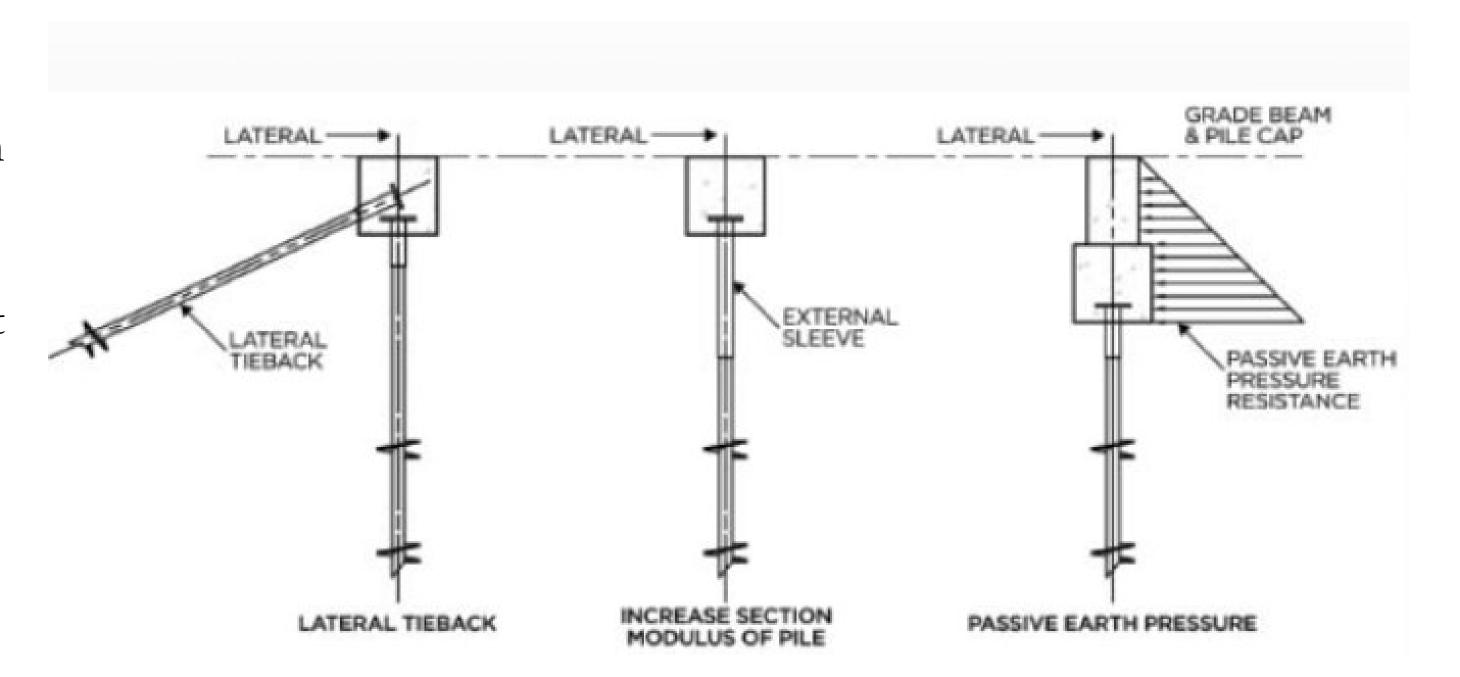
RECOMMENDATIONS

KENNEDY PLAZA:

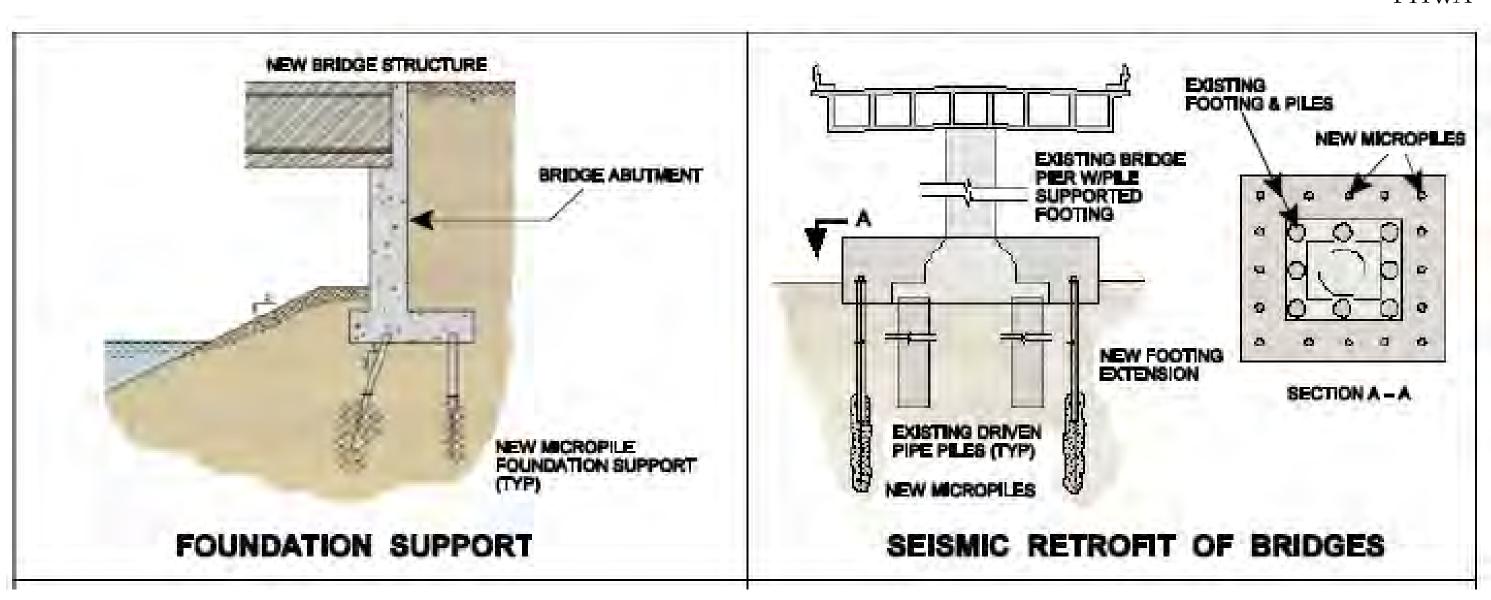
- Main Structures and Critical Infrastructure
 - **Helical Piles-** low to moderate pile capacity no vibration can function as end-bearing or side-friction elements- urban settings -
 - Critical utilities Susceptible to damage by consolidation / settlement
 - Can be minimized by a helical pile or geogrid ground improvement relieving platform
 - Minor Utilities Overexcavate and replace, bed per manufactures

KP / RIVERWALK CONNECTOR:

- Connector and Future Development Foundation
 - **Drilled MicroPille** high-capacity, small diameter, drilled deep foundation elements support new foundations underpin existing foundations. minimal vibrations
 - Consist of a combination of steel casing, threaded bar, and grout.
 - Grouted to Rock
 - Existing Steel Piles from old train station platform
 - Limited information
 - May be near 160 years old.
 - Reduced section modules (strength) due to perforation/corrosion of steel members
 - May change mode of failure to buckling
 - Possibly damaged during demolition
 - Consider 75% loss of capacity until can investigate and/or perform Pile load test.
 - Existing foundation can be underpinned with Micropiles if required



FHWA



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RECOMMENDATIONS

Subsurface Parameter Table

Soil Layer Soil Layer Unit

Soil Layer Strength

Parameters

Su psf

₩ deg

Material Avg. SPT Typ. Density Weight Range Raw No (N60)1 description 7 dry pef

Soil Layer

Alluvial	12	13	13	M. Dense	102	30	na
Glaciolacustrine	8	9		Stiff	81	0	750
Glacial Deposit	58	59	-41	Dense	103	34	250 _C

Friction Angle 🥥 | Undrained Shear Strength Su | cohesion C

Kennedy Plaza (KP)						
Recommended Foundation	Allowable Axial (kips)	Allowable tension (kips)	Allowable Lateral (kips)	Min. Spacing (ft) 3.5		
Helical Piles	20	10	*			
* requires bracing in two directions or three Helical Piles						
KP / Riverwalk Connector						
Recommended Foundation	Allowable Axial (kips)	Allowable tension (kips)	Allowable Lateral (kips)	Min. Spacing (ft)		
10 " diam Drilled Grouted Micropile; cased and socketed to rock, high strength thread bar	100	50	5 - 10**	3		

*Micropiles require Field Load Test Per

ASTM-D1143 - Compression

ASTM-3689 —Tension

Riverwalk /Basin						
Recommended Foundation	Allowable Axial (kips)	Allowable tension (kips)	Allowable Lateral (kips)	Min. Spacing (ft)		
Pedestrian Bridge: 10 " diam Drilled Micropile (grouted); cased and socketed to rock, high strength thread bar	100	50	5-10**; or batter if more required	3		
Riverwalk Piers: 10 " diam Drilled friction Micropile (grouted); cased above point of zero (0) moment, high strength thread bar	40	20	5-10**	3		

^{**} Partial fixity required

Note::Loads provided require a geotechnical specification and construction oversight

Down drag may reduce capacity

Final depths to be determined

Pile caps shall be provided to transfer load to foundation

Group effects result in a capacity less than the sum of individual

1	ocation
Site Classification	Type e – Soft soil*
Seismic Site Coefficients	
S _s	0.176
S ₁	0.062
Frost Depth	3' - 4"
	Access issues, vibration,
Construction	underground structures, and
	dewatering concerns

^{*} Based on RMA series borings at Waterplace.

	RMA				
ER	VALUE				

PARAMETER	VALUE
Cohesion (psf)	0
Appx. Dry Unit Weight (PCF)	
Existing Granular Fill	90
Compacted Structural Fill	120
Internal Friction Angle (deg)	
Existing Granular Fill	27°
Compacted Structural Fill	34°
Active Pressure Coefficient (Ka)	
Existing Granular Fill	0.38
Compacted Structural Fill	0.28
Passive Pressure Coefficient (Kp)	
Existing Granular Fill	2.7
Compacted Structural Fill	3.5
At Rest Pressure Coefficient (Ko)	
Existing Granular Fill	0.53
Compacted Structural Fill	0.4
Base Coefficient of Sliding (concrete on soil)	
Existing Granular Fill	0.35
Compacted Structural Fill	0.4
Gradation	
Existing Granular Fill	NA
Compacted Structural Fill	M.01.02.1a Sand and Gravel
	modified to less than 5%
	passing the No. 200 sieve, and
	100 % passes the 3: sieve

All values are preliminary and requires further evaluation in subsequent phases of project

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ADDITIONAL CONSIDERATIONS

BEARING PREPARATION AND CONSTRUCTION MATERIALS

Any soil layer containing topsoil/subsoil/organics/loam, excessive root material, wood, debris/rubbish, or voids needs to be stripped prior to use for any structural bearing (beneath footings, slabs, paved areas). In addition, any unsuitable soil **(FILL, Estuarine)** must be removed (as specified herein) from the structure bearing/building influence zone or bridged by a deep foundation system or alternate ground improvement. Any disturbed soil at the bottom of an any excavation must be compacted with vibratory compaction equipment prior to commencement of construction.

COMPACTION

We recommend testing structural and granular fill for moisture content and compaction during placement. If in-place density test results indicate the specified moisture or compaction limits have not been met, the area represented by the test should be reworked and retested, as required, until the specified moisture and compaction requirements are achieved.

Compaction of structural or granular fill within any building area and below/behind retaining walls is recommended to be a minimum of 95 percent of the maximum dry density as determined by ASTM D-1557. Under paved areas, structural or granular fill is recommended to be compacted to a minimum of 92 percent of the maximum material dry density (ASTM D-1557), except for the subbase and base courses supporting pavement, which are recommended to be compacted to a minimum of 95 percent (ASTM D-1557). Lift thickness should be appropriate for the compaction equipment being utilized and should not exceed 12-inches (and 6 inches for hand-operated equipment).

PRECONSTRUCTION

Vibration caused by drilling, pile driving, the compaction of subgrade soil, structural fills or other factors, could impact nearby structures. RMA recommends that prior to the start of construction, a video and/or photo pre-construction survey be performed at any critical structures/buildings which are located near the work area (within 200 feet +/-) which may be affected (i.e., cell tower, and commercial structures). This should also include adjacent utilities that may be affected by the construction. This survey would record "before-construction-conditions" of existing structures and utilities that are expected to remain through construction.

RMA also recommends that crack gauges be installed to monitor movement of existing cracks and on any cracks that develop in new or existing concrete foundation walls.

Any mechanical (impact) damage or vibration damage likely to be caused to neighboring structures/utilities by drilling, pile driving, the compaction of subgrade soil, structural fills or other factors, is to be identified by the contractor (or his representative) and prevented by approved methods which are found to be agreeable with the owner of any neighboring structures. Vibration monitors (i.e., seismographs) should be installed at sensitive structures.

Digsafe is to be contacted, and a Digsafe number acquired prior to excavation.

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ADDITIONAL CONSIDERATIONS

CONSTRUCTION

All construction activities are to be in complete accordance with OSHA and IBC/State B. C. regulations; specifically, 1990 OSHA sections: .900 - .914, .650 - .652, .800, .550; and 2007 IBC Articles 1803, or the relevant sections of more updated codes. The individual contractor(s) is responsible for designing and constructing stable, temporary excavations, as required, to maintain stability of the excavation sides and the excavation bottom, including adjacent to any slopes. Instability in the form of slope raveling, caving, and sloughing should be expected in all excavations and trenches that extend into materials with little to no cohesion. Excavations should be sloped or shored in the interest of safety following local and federal regulations, including current OSHA excavation and trench safety standards.

Any undermining of adjacent structures/foundations and/or utilities likely to be incurred by construction activities shall be prevented by shoring or underpinning at the discretion of the contractor, and with the agreement of all parties (including the owners of said structures). Temporary support systems may be required at some locations to retain the surrounding soil and maintain a near-vertical excavation face where it will be necessary to protect proposed or existing site features. Design of temporary earth support systems is the sole responsibility of the contractor.

During construction, temporary dewatering may be required to control ponded water resulting from rain and surface runoff, and potentially from groundwater intrusion. The extent of dewatering will be dependent on the selected foundation type and the contractors means and methods. A professional engineer familiar with dewatering in urban environment with underlying compressible soils shall be required to sign and stamp the contractors submitted dewatering plan. Discharge from the dewatering system shall meet current regulatory requirements.

The Contractor should provide for proper drainage of surface water away from any excavations. All excavations should be conducted in the dry. In no case should excavation work be completed during a precipitation event nor when the excavation cannot be backfilled the same day. Subgrade soils that become unstable should be replaced with compacted granular or structural fill (where applicable) or crushed stone, as necessary. Crushed stone, if used, should be wrapped with a geotextile filter fabric such as Mirafi 140N, or equivalent.

Subgrade soils exposed during construction that have a high silt content may become unstable due to precipitation, repetitive construction traffic, or other factors. If unstable conditions develop as a result, replacement with compacted granular or structural fill materials will be necessary

LIQUEFACTION EVALUATION

Liquefaction is the tendency for a soil type, particularly fine sands, to lose a significant amount of strength and exhibit liquid-like characteristics in the event of an earthquake, or sufficient vibration. Liquefaction analyses generally relate Standard Penetration Test (SPT) N values, corrected for overburden, and measured groundwater levels to the liquefaction potential of the materials in question. In general, for liquefaction to occur three conditions have to be met simultaneously. These are: 1.) loose sandy soils susceptible to liquefaction, 2.) saturated soil conditions, and 3.) vibration.

The Glaciolacustrine layer is submerged, and has a loose and v. soft density. Typically, the clay content resulted in some plasticity of the sample, which would reduce the susceptibility to liquefaction; however, this should be reviewed and evaluated further.

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LIMITATIONS

Explorations

- 1. The analyses and recommendations submitted in this report are based in part upon the data obtained from subsurface explorations performed at the indicated locations, project information provided to us at the time of this report, and from other information discussed in this report. This report does not reflect variations that may occur between explorations, across the site, or due to the modifying effects of weather. The nature and extent of variations between these explorations may not become evident until construction. If variations then appear evident, RMA Environmental, LLC (RMA) should be immediately notified and asked to reevaluate the recommendations of this report.
- 2. The generalized soil profile described in the text is intended to convey trends in the subsurface conditions. The boundaries between strata are approximate and idealized and have been developed by Interpretations of widely spaced explorations and samples; actual soil transitions are probably more erratic. For specific information, refer to the boring logs, test pit logs, and/or rock probe logs.
- 3. Water level readings have been made in the drill holes and or test pits at the times and under the conditions stated on the boring logs and/or test pit logs. These data have been reviewed and interpretations have been made in the text of this report. However, fluctuations in the level of groundwater may occur due to variations in rainfall, temperature, and other factors occurring since the time the measurements were made.

Review

1. In the event that any changes in the nature (size, type, etc) or location of the proposed building are planned, the conclusions and recommendations contained in this report shall not be considered valid unless the changes are reviewed and the conclusions of this report are verified in writing by RMA. RMA should also be provided with the opportunity for a general review of the final design and specifications in order that the earthwork and foundation recommendations may be properly interpreted and implemented in the design and specifications.

Construction

1. If this report is used for final design, RMA should be retained to provide soil engineering services during construction phases of work in order to observe compliance with the design concepts, specifications, and recommendations and to allow design changes in the event that subsurface conditions differ from those indicated prior to the start of construction. We cannot accept responsibility for designs based on recommendations in this report unless we are engaged to 1) make site visits during construction to check that the subsurface conditions exposed during construction are in general conformance with our design assumptions and 2) ascertain that, in general, the work is being performed in compliance with the contract documents.

Visual Inspection

- 1. The assessment of the general condition of the seawall is based upon available data and visual inspections. Detailed investigations and analyses involving topographic mapping, subsurface investigations, testing and detailed computational evaluations are beyond the scope of this report.
- 2. In reviewing this report, it should be realized that the reported condition of the seawall is based on observations of field conditions at the time of inspection, along with data available to the inspection team.
- 3. It is critical to note that the condition of the seawall depends on numerous and constantly changing internal and external conditions, and is evolutionary in nature. It would be incorrect to assume that the present condition of the seawall will continue to represent the condition of the seawall at some point in the future. Only through continued care and inspection can there be any chance that critical conditions be detected.

Use of Report

- 1. This report, as instruments of professional service, are and shall remain the property of RMA Environmental, LLC. Documents are not to be used, in whole or in part, for other projects or purposes or by any other parties than those authorized by contract without written consent from RMA Environmental, LLC. Use of this report is contingent upon payment to RMA Environmental, LLC for services rendered. Non-payment shall give RMA Environmental, LLC the authority to bar document use by any and all parties.
- 2. The applicability of other environmental permits (ie., NOI, PGP, Water Quality Certificate, etc.) needs to be determined prior to undertaking maintenance activities that may occur within resource areas under the jurisdiction of CRMC, RIDEM or other regulatory agency.
- 3. This report has been prepared for the exclusive use of ARUP and the City of Providence for specific application to the Unified Vision for Downtown Public Spaces Project in accordance with generally accepted engineering practices. No other warranty, expressed or implied, is made.
- 4. This report has been prepared for this project by RMA. This report is for preliminary evaluation purposes only and is not necessarily sufficient to support design or repairs or recommendations or to prepare an accurate bid.

City of Providence

Unified Vision for Downtown Providence

Utilities Coordination Report

30% Design | June 18, 2021

This report takes into account the particular instructions and requirements of our client.

It is not intended for and should not be relied upon by any third party and no responsibility is undertaken to any third party.

278909

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1 Executive Summary

The proposed Project aims to modernize 10 acres in Downtown Providence, Rhode Island and create a more efficient and inviting public realm. Proposed design plans include reclaiming car traffic area for pedestrians, raising the existing Riverwalk to adapt to sea-level rise, a new ice rink and interactive water feature for kids and family in the center of Kennedy Plaza, a youth engagement park, public Wi-Fi, new public art, interactive digital interfaces, performance stages, underground infrastructure for temporary event structures, a new transportation bus hub, and a new experiential mist ring installation in the Waterplace Park basin.

This report provides a summary of utility coordination provided for the project, describes existing and proposed utilities, and identifies recommendations and considerations for future design development of the project's utilities



Photo 1 - Aerial View of Project

1.1 Utility System Overview

Existing utility systems and the authorities having jurisdiction identified in the Project area include:

- Water: Providence Water
- Sanitary Sewer: Narragansett Bay Commission
- Storm Drainage: Narragansett Bay Commission
- Electric: National Grid
- Telecommunications: Verizon & Cox Communications
- Natural Gas: National Grid

Existing combined and sanitary systems discharge to:

- Field's Point Wastewater Treatment Facility
- The Providence River

Existing storm sewers in the Project area discharge to:

- The Woonasquatucket River
- The Providence River

Due to the size of the Project, the Project will require multiple service connections for water, sanitary sewer, storm drainage, electrical, telecommunications, and natural gas in the surrounding streets. All connections will be coordinated with the appropriate utility providers and constructed to minimize effects on adjacent streets, sidewalks, and other areas within the public right-of-way.

The Project aims to capture and store the first inch (1/2-inch minimum) of stormwater runoff over the proposed impervious area and treat at least 75% of all runoff in various stormwater BMPs (Best Management Practices) and green infrastructure elements throughout the Project limits.

Preliminary coordination conversations conducted with public and private utility companies have been logged in **Appendix A**.

1.2 Utility Design Development Recommendations

Recommendations and considerations for future design development of the project utilities are summarized below.

General:

• Perform a below-ground utility survey to verify underground utility system locations, elevations, and dimensions.

Water:

- The existing 24" water main in Kennedy Plaza is a significant transmission main. Proposed realignment of the main must be closely coordinated with Providence (PVD) Water.
- Coordinate final service locations and sizes with the Project's plumbing engineer and Providence Water.
- All water connections will be constructed to minimize effects on adjacent streets, sidewalks, and other areas within the public right-of-way.
- Further develop the water conservation measures to be included in the Project.
- Coordinate the final number and location of hydrants with the Providence Fire Department and PVD Water.
- Perform flow testing to confirm water capacity.
- Coordinate water demand and availability with PVD Water to ensure the Project needs are met while maintaining adequate water flows to the surrounding neighborhood.
- Any redundant existing domestic water services found during additional investigations will be coordinated with PVD Water and cut and capped prior to demolition.

Sanitary Sewer:

- Any redundant existing sanitary sewer services found during additional investigations will be cut and capped prior to demolition.
- All sewer connections will be constructed to minimize effects on adjacent streets, sidewalks, and other areas within the public right-of-way.
- The size and location of the service connection(s) will be coordinated with the Project's plumbing engineer and the NBC.
- Coordinate protection and/or relocation requirements for the 48" storm drain in Kennedy Plaza with NBC.
- Further survey investigation will be required to determine invert elevations, locations, and depths for the proposed sanitary connections, and to confirm sewage outfall locations.

Storm Drainage:

- Progress the site layout and stormwater BMP design to conform to the Max Post-Development Impervious Area Permissible and Water Quality Volume requirements indicated on the Stormwater Master Plan for each Lot. Coordinate any required deviations from this plan with CRMC and RIDEM.
- Confirm if impervious liners can be removed from any of the proposed stormwater BMPs to increase infiltration to the ground without adversely impacting existing soil and groundwater contamination hot spots.
- Pipe sizes and stormwater models will be developed as the Project progresses to confirm that there will be increase in peak flows from the 1-year and 10-year storms per RIDEM regulations.
- Coordinate with the geotechnical engineer to confirm requirements for geogrids, helical piles, or other soil stabilization methods to prevent consolidation in the soils below the proposed green infrastructure elements.
- Proposed site improvements, stormwater infrastructure, and phasing should be performed accordance with the Stormwateter Master Plan. Coordinate with RIDEM/CRMC to verify Permitting Masterplan requirments.
- Consider future rainfall projections and the potential for designing site drainage and green infrastructure to accommodate larger volumes of water, including at the 'dry-side' of the proposed flood barrier at Memorial Boulevard.
- Refer to the Sustainability & Resilience Strategy 30% design report for additional flood resilience recommendations.

Electric:

- It is recommended that the city tender a RPF for the solar design for the connector to explore various solar design and finance options (such as PPA agreement).
- The electrical utility will also need to be engaged to ensure there is sufficient solar interconnection capacity for the area. Potential available energy rebate program could also be explored with the electric utility.
- The existing site lighting has various lighting pole and various parts numbers. It may be beneficial to consider standardize site lighting for ease of future maintenance.
- All proposed new utility service size is subject to National Grid service connection approval.

Telecom:

- Client should consider network deployment and operational support during the design phase since there are service models and providers that could deploy and support the networking needs of the Project.
- These providers also sometimes offer partnership/sponsorship opportunities that may be beneficial to the project. The Client should investigate these opportunities during the design phase.
- Determine what rights/franchise agreements different telecommunications providers (and the City itself) have in the Project vicinity to ensure that the design considers these various requirements. This should include what sort of access carriers may require to their infrastructure under Project streets.
- Engage cellular carriers to understand their deployment plans for 4G LTE and 5G service across the Project and whether supplemental coverage (e.g. from an outdoor distributed antenna system) is required.
- Determine how resilient/reliable communications services should be at the project to inform design decisions such as redundancy.
- Plan for the deployment and support/operation of technology systems, including telecommunications, in both capital and operating budgets, as these systems are often overlooked.

Natural Gas:

- Additional subsurface survey investigations should be performed to confirm sizes and locations of existing gas loops surrounding the Project site.
- Final service and appropriate connection points should be coordinated with National Grid as the Project design progresses.

2 General Utility Coordination

2.1 Existing Conditions Data Sources

The utility information described below is provided from a mix of field locations, utility records, and GIS plans. No subsurface utility investigations were performed as part of the site survey ("Survey Plan Unified Vision for Downtown Public Spaces Water Place Park & Kennedy Plaza" by Narragansett Engineering Inc. Dated: 03/04/2021). Further investigation will be required to discern actual function, subsurface locations, connections, and invert elevations.

2.2 Utility Protection During Construction

The Contractor will notify utility companies and call "Dig-Safe" prior to excavation. During construction, infrastructure will be protected using sheeting and shoring, temporary relocations and construction staging as required. The construction contractor will be required to coordinate all protection measures, temporary supports, and temporary shutdowns of all utilities with the appropriate utility owners and/or agencies. The construction contractor will also be required to provide adequate notification to the utility owner prior to any work commencing on their utility. Also, in the event a utility cannot be maintained in service during switch over to a temporary or permanent system, the construction contractor will be required to coordinate the shutdown with the utility owners and Project abutters to minimize impacts and inconveniences. The Proponent will continue to work with utility companies to ensure safe and coordinated utility operations in connection with the Project.

2.3 General Utility Design Development Recommendations

Recommendations and considerations for future design development include:

• Perform a below-ground utility survey to verify underground utility system locations, elevations, and dimensions.

3 Water System

3.1 Existing Water Service

Providence (PVD) Water owns, operates, and maintains the water distribution systems near the Site.

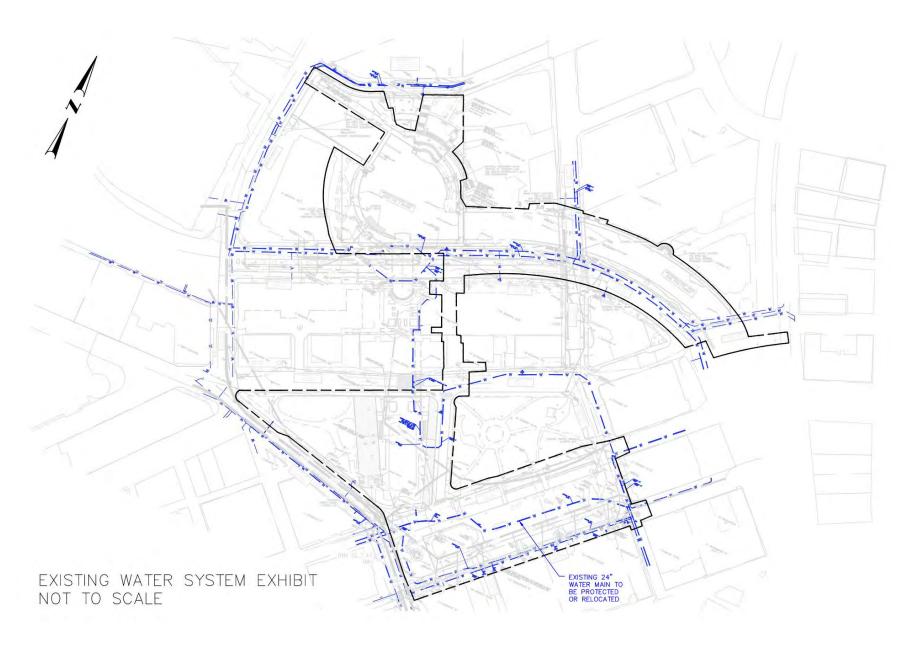
Per City of Providence GIS and record plans, an 8" water line and a 12" high pressure (HP) water line run parallel next to each other along Finance Way, north of Woonasquatucket River, and then down U.S. Route 1/Francis Street. These water lines connect to a 12" HP water line and a 12" water line that then run south of the Woonasquatucket River along Memorial Boulevard, eventually connecting to an 8" and 12" HP water line in the existing tunnels at the intersection of Memorial Boulevard and Exchange Street. The 12" water line running along Memorial Boulevard connects to an 8" water line just north of the 11 Memorial Boulevard parking lot, which then runs south through the existing tunnel under the Rhode Island Community Foundation Building towards Biltmore Park. The line connects to a 24" line that loops back up north and along Exchange Terrace to Exchange Street.

There are two 16" water lines that run parallel down Dorrance Street and connect to an 8", 16" and 24" water line that run through Kennedy Plaza to tie into the existing 24" line in Exchange Street. The 24" main that cuts through Kennedy Plaza is a critical transmission line for the City.

There are several existing fire hydrants surrounding the Project Site.

According to current record and survey documents, no current service connections exist in the Project area aside from the existing bathrooms in Kennedy Plaza – but any redundant existing domestic water services found during additional investigations will be coordinated with PVD Water and cut and capped prior to demolition. See **Figure 1** for the existing water system.

Figure 1 - Existing Water System



3.2 Proposed Water Connections

The Project will require multiple service connections to the PVD water systems in the surrounding streets. All water connections will be constructed to minimize effects on adjacent streets, sidewalks, and other areas within the public right-of-way.

In the Waterplace Park basin, there will be two (2) below equipment room systems to serve the proposed misting water feature. Both systems will tie into the existing water system. One connection is anticipated to tie-in to the existing 12" water line in Memorial Boulevard where the other is anticipated to tie into the existing 8" water line in Finance Way. The proposed bathrooms will have a service connection that is anticipated to also tie into that existing 8" water line.

In the Free Space area, the proposed Café building will have a water service connection that is anticipated to tie into the existing 16" water line in Dorrance Street. The proposed Exchange Street storage building under the road bridge will have a water service connection that is anticipated to tie into the existing 8" loop at the existing ice rink location.

The existing 24" water main that currently cuts through Kennedy Plaza will need to be relocated out from under the proposed ice rink to Washington Street. This proposed realignment should be closely coordinated with PVD Water.

In Kennedy Plaza, the Welcome Center building, the proposed Rink Liner Building (with the water feature equipment room in the basement), and the café at the Big Shade will also all require water service. These connections will tie into the existing 24" water that currently cuts through the plaza, the 8" water line in Fulton Street, and the 24" main in Exchange Street respectively.

Any metering will be installed and conducted in accordance with Providence Water requirements. Appropriate gate valves and backflow prevention devices will also be installed on each water service to allow individual services to be shut off and to prevent potential backflow of non-potable water or other contaminants into the public water supply.

Hose-bibs will be distributed around the Free Space and Kennedy Plaza. These elements will tie into the water systems for the proposed buildings in the area.

In order to provide appropriate fire protection around the Project perimeter, additional fire hydrants may be required. Approximately three (3) new hydrants are anticipated. All new hydrant locations shall be coordinated with the Providence Fire Department and PVD Water.

See **Figure 2** for a schematic exhibit of the proposed water system.

3.3 Estimated Proposed Water Demand

The estimated proposed water demand for the Project is based on the estimated sanitary sewer flow (see **Table 1**), with a factor of 1.1 applied to account for consumption and other losses. Based on this formula, the Project's estimated peak water demand for domestic uses is 10,862 gallons per day.

Based on discussions with Providence (PVD) Water, there are no expected water capacity issues near the Site.

3.4 Water Design Development Recommendations

Recommendations and considerations for future design development include:

- The existing 24" water main in Kennedy Plaza is a significant transmission main. Proposed realignment of the main must be closely coordinated with Providence (PVD) Water.
- Coordinate final service locations and sizes with the Project's plumbing engineer and PVD Water.
- Further develop the water conservation measures to be included in the Project.
- Coordinate the final number and location of hydrants with the Providence Fire Department.
- Perform flow testing to confirm water capacity.
- Coordinate water demand and availability with PVD Water to ensure the Project needs are met while maintaining adequate water flows to the surrounding neighborhood.
- Any redundant existing domestic water services found during additional investigations will be coordinated with PVD Water and cut and capped prior to demolition.

Figure 2 - Proposed Water System



4 Sanitary Sewer System

4.1 Existing Sanitary Sewer System

The Narragansett Bay Commission (NBC) owns, operates, and maintains the sanitary sewer systems near the Project Site.

An existing 70" brick sanitary sewer main runs south down U.S. Route 1/Francis Street and down Dorrance Street. This 70" main ultimately discharges to the Field's Point Wastewater Treatment Facility in Providence which is also owned and operated by the NBC.

A 66" brick sewer main runs parallel to the 70" main down Dorrance Street. The 66" main is presumed to discharge to a CSO outfall at the Providence River, but this is not confirmed.

A 12" sanitary sewer line coming off the 70" sewer at the intersection of U.S. Route 1/Francis Street and Memorial Boulevard runs east before tying into an existing manhole in Memorial Boulevard. This line is shown to continue through Memorial Blvd per National Grid plans, but location has not been confirmed and is not shown on the survey.

A 12" gravity sanitary sewer line flows south down Exchange Street. Providence GIS records show this line in Exchange Street tying into an existing 12" sanitary line in Fulton Street (via existing sanitary manholes) which then connects into that existing 70" brick sanitary main in Dorrance Street, but the survey did not confirm the location or existence of this Fulton Street line.

According to current record and survey documents, no current service connections exist in the Project area aside from the existing bathrooms in Kennedy Plaza – but any redundant existing sanitary sewer services found during additional investigations will be cut and capped prior to demolition.

See **Figure 3** for the existing sanitary sewer system.

Figure 3 - Existing Sanitary Sewer System



4.2 Proposed Sanitary Sewer Connections

The Project will require multiple service connections to the NBC sewer systems in the surrounding streets. All sewer connections will be constructed to minimize effects on adjacent streets, sidewalks, and other areas within the public right-of-way.

In the Waterplace Park area, the two (2) proposed water feature equipment rooms will require a sanitary sewer service connection for any discharge from floor drains, etc. These connections are anticipated to tie in to the existing 12" sewer in Memorial Boulevard and the existing 8" sewer in Finance Way via proposed sewer manholes. The sanitary sewer connection for the proposed bathrooms will also tie into the existing 8" sewer in Finance Way.

In the Free Space, the proposed café building will require sanitary sewer service. This connection is anticipated to tie-in to the existing 70" sewer main in Dorrance Street via a new sewer manhole. The proposed Exchange Street storage building under the road bridge will have a sanitary sewer service connection that is anticipated to tie into the existing 70" sewer main in Dorrance Street via a new sewer manhole. This service may require a sump pump due to the elevation difference.

In Kennedy Plaza, the Welcome Center Building, the proposed Rink Liner Building (with the water feature equipment room in the basement), and the café at the Big Shade will also all require sanitary sewer service. These connections are anticipated to tie into the existing sanitary sewer in Fulton Street via new sewer manholes and the 12" sewer in Exchange Street via an existing manhole respectively.

The size and location of the service connection(s) will be coordinated with the Project's plumbing engineer and the NBC. Further survey investigation will be required in order to determine invert elevations and depths for the proposed sanitary connections.

4.3 Estimated Proposed Sanitary Flow

The Rhode Island Department of Environmental Management establishes sewer generation rates for various types of establishments in section 250-RICR-150-10-6 of the Rhode Island Code of Regulations (RICR). Based on an estimate of the Project's proposed program, **Table 1** below gives the estimated proposed sanitary sewer flows expected to be generated by the Project. Based on these sewer generation rates; the project is expected to produce approximately 9,875 gallons/day of sewer flow. Per conversations with NBC, there are no sewer capacity concerns for the proposed Project. The proposed sewer generation calculation will be refined as the Project develops and final sewer generation flows will be coordinated with NBC.

Table 1 - Estimated Sewer Generation

Type of Use	Sewer Generation Rate	Expected Program	Sewer Flow (gallons/day)
Public Park with toilets (Kennedy Plaza)	5 gallons/person/day	500 people	2,500
Public Park with toilets (Waterplace Park)	5 gallons/person/day	500 people	2,500
Exchange Terrace Storage Building Restrooms	5 gallons/person/day	500 people	2,500
Restaurant – Take out Service Only (Free Space Café)	500 gallons/restaurant/day	1 restaurant	500
Restaurant – Take out Service Only (Big Shade Café)	500 gallons/restaurant/day	1 restaurant	500
Rink Service Building	25 gallons/pump/day	4 pumps	100
Water Feature Equipment Room Backwash Filter (Kennedy Plaza)	240 gal/min	Max. run time of 5 min per day	1,200
Water Feature Equipment Rooms (Waterplace Park)	0.1 gal/SF/day	750 SF	75
	9,875		

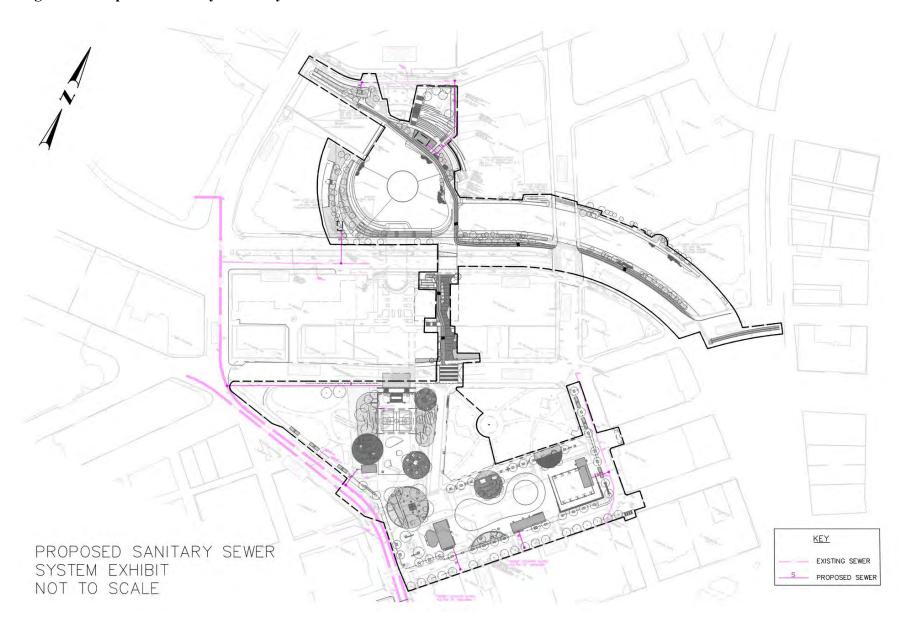
See **Figure 4** for a schematic exhibit of the proposed sanitary sewer system.

4.4 Sanitary Sewer Design Development Recommendations

Recommendations and considerations for future design development include:

- Any redundant existing sanitary sewer services found during additional investigations will be cut and capped prior to demolition.
- All sewer connections will be constructed to minimize effects on adjacent streets, sidewalks, and other areas within the public right-of-way.
- The size and location of the service connection(s) will be coordinated with the Project's plumbing engineer and the NBC. Further survey investigation will be required in order to determine invert elevations, locations, and depths for the proposed sanitary connections, and to confirm sewage outfall locations.

Figure 4 - Proposed Sanitary Sewer System



5 Storm Drainage System

5.1 Existing Storm Drainage Sewer System

The Narragansett Bay Commission (NBC) owns, operates, and maintains the storm drainage systems near the Project Site.

There are two (2) existing Design/Stormwater Discharge Points for the Project Site: The Woonasquatucket River (DP-1) and the Providence River (DP-2). The Project site is divided into 4 sub-catchments: E1 (Waterplace Park Area), E2 (Proposed Pedestrian Bridge), E3 (Free Space/Old Ice Rink Area), and E4 (Kennedy Plaza). E1 discharges to DP-1 where all the remaining sub-catchments ultimately discharge to DP-2.

In the Waterplace Park basin area, the City of Providence GIS shows 6 drain outlets along the edge of Woonasquatucket River. These were not field verified and are presumed to be submerged. South of the Woonasquatucket River, there exists several 12" storm drains that collect the runoff from the catch basins along U.S. Route 1/Francis Street. There is an additional 15" storm drain that starts at the intersection of U.S. Route 1/Francis Street and Memorial Boulevard and runs east before discharging to the Woonasquatucket River.

On the southeastern side of the Waterplace Park basin, catch basins collect runoff from Memorial Boulevard and route through a 12" storm drain. This line connects to an 18" storm drain at the intersection of Exchange Street and Memorial Boulevard which also collects runoff from catch basins in Exchange Street and Exchange Terrace. This 18" storm drain likely discharges to the Woonasquatucket River (according to Providence GIS).

Existing catch basins collect runoff from the plaza north of the Rhode Island Foundation building (at the pedestrian underpass entrance) and tie into an existing 24" storm drain. This line runs south through the existing tunnel and ties into an existing 48" storm drain at the ice rink. That 48" storm drain runs southeast to Washington Street towards Exchange Street on the northern edge of Kennedy Plaza, and ultimately conveys water to the Providence River.

Another 48" storm drain main enters the site at the intersection of U.S. Route 1/Francis Street and Memorial Boulevard, cuts through Biltmore Park, and then runs down Dorrance Street. This 48" main continues through Kennedy Plaza towards Exchange Street. Catch basins collect runoff along the southern edge of Kennedy Plaza and tie into the 48" main via several 12" lines in Fulton Street. This 48" storm drainage also ultimately conveys water to the Providence River.

See **Figure 5** for the existing storm system and sub-catchment plan.

Figure 5 - Existing Storm Sewer System



5.2 Proposed Storm Drainage Sewer Connections

In order to satisfy RIDEM stormwater requirements, the Project aims to capture and store the first inch (1/2-inch minimum) of runoff over the proposed impervious area and treat at least 75% of all runoff in stormwater BMPs (Best Management Practices) and green infrastructure elements. Additionally, due to existing soil contamination in the Project area, no infiltration is proposed – all BMP systems will be lined with impermeable liners. A preliminary Stormwater Master Plan was prepared and presented to initiate permitting conversations with the relevant municipal agencies (RIDEM, CRMC, etc.) - see **Appendix B** for the proposed plan.

Stormwater runoff will be collected and treated on-site and will be routed to BMP systems to the maximum extent practicable to reduce the impact on the NBC drainage system. Overflow connections from the BMP systems areas are proposed to handle larger, less frequent storm events and will discharge to the existing drain system. Pretreatment will be handled using proprietary water quality units prior to connection into the BMPs and City system to minimize maintenance requirements for the BMPs and maximize removal of pollutants in the collected runoff.

Pipe sizes and stormwater models will be developed as the Project progresses to confirm that there will be increase in peak flows from the 1-year and 10-year storms per RIDEM regulations. Since the proposed Project will reduce impervious area in the post-development condition, no increases to peak flows are expected.

In the Waterplace Park area stormwater will be conveyed along surfaces or collected via inlets in the Riverwalk decking and directed to proposed at-grade vegetated stormwater BMPs via suspended drainage piping to minimize untreated stormwater runoff and debris from entering the Woonasquatucket River.

Stormwater management and runoff from the proposed bike path, Marsella Connector, and associated work will be addressed and coordinated in future phases as the development plans progress.

Runoff from the Free Space will be directed to catch basins at the low points which will tie into a proprietary water quality unit prior to discharging to a subsurface stormwater storage tank under the basketball court. This tank will overflow to the adjacent existing 48" storm drain via a proposed drain manhole.

Kennedy Plaza will be graded to direct stormwater to proposed tree pits that will treat and store runoff. Roof runoff from the café at the Big Shade, the Big Shade itself, and the Rink Liner Building will be directed via downspouts and pipe connections to the tree pit underdrain system. This collected runoff will provide passive irrigation to the proposed trees prior to being treated in the associated BMP soils and ultimately discharged to the existing 48" storm sewer in Kennedy Plaza. The tree pits will have underdrain pipe collection systems along with

additional overflow connections that will outlet to the existing NBC drainage system to accommodate any large storms/potential clogging of tree pit soils.

See **Figure 6** for a schematic exhibit of the proposed storm drainage connection points and BMP systems.

Figure 6 - Proposed Storm Sewer System



5.3 Storm Drainage Design Development Recommendations

Recommendations and considerations for future design development include:

- Progress the site layout and stormwater BMP design to conform to the Max Post-Development Impervious Area Permissible and Water Quality Volume requirements indicated on the Stormwater Master Plan for each Lot. Coordinate any required deviations from this plan with CRMC and RIDEM.
- Confirm if impervious liners can be removed from any of the proposed stormwater BMPs to increase infiltration to the ground without adversely impacting existing soil and groundwater contamination hot spots.
- Pipe sizes and stormwater models will be developed as the Project progresses to confirm that there will be increase in peak flows from the 1-year and 10-year storms per RIDEM regulations.
- Coordinate with the geotechnical engineer to confirm requirements for geogrids, helical piles, or other soil stabilization methods to prevent consolidation in the soils below the proposed green infrastructure elements.
- Proposed site improvements, stormwater infrastructure, and phasing should be performed accordance with the Stormwateter Master Plan. Coordinate with RIDEM/CRMC to verify Permitting Masterplan requirments.
- Consider future rainfall projections and the potential for designing site drainage and green infrastructure to accommodate larger volumes of water, including at the 'dry-side' of the proposed flood barrier at Memorial Boulevard.
- Refer to the Sustainability & Resilience Strategy 30% design report for additional flood resilience recommendations.

6 Electrical Services

6.1 Existing Electrical Services

National Grid owns and maintains the electrical infrastructure within the Project's general vicinity.

There are existing subsurface electrical manholes and an underground electrical duct bank that run through Finance Way north of Waterplace Park.

A subsurface electrical duct bank connected through a series of electrical manholes runs through Memorial Boulevard. Another subsurface electrical duct bank crosses the Memorial Boulevard system and runs south down Exchange Street.

Underground electrical lines on both the north and the southern edge of Kennedy Plaza (in Washington Street and Fulton Street) tie into the system in Exchange Street. The three (3) lines that run through Washington Street and Fulton Street are fed from a 12" underground electric duct that runs through Dorrance Street. This Dorrance Street line ties into the system in Exchange Terrace which ultimately connects into the same system in Exchange Street.

Additionally, there are two existing underground electrical vaults located within Kennedy Plaza.

See **Figure 7** for the existing electrical system.

The electrical distribution can be divided into building distribution and National Grid streetlight distribution system that serve the corresponding area. See **Figure 8** for electrical distribution area diagram

Waterplace Park Electrical Distribution (Dark Green)

Existing Electrical Service: 400A 480/277V 3 Phase

This is the electrical metered distribution dedicated for the park services, which is located inside the Skyline restaurants. This distribution serves the area site lighting along the pedestrian bright, river walk, amphitheater and other miscellaneous pump and building load.

Exchange Terrace (Existing Ice Rink) Electrical Distribution (Yellow)

Existing Electrical Service: 800A 480/277V 3 Phase

This electrical distribution's main switchboard is located underneath the Exchange Terrace maintenance tunnel. This distribution also feed the BankNewport City Center that is located along Washington Street. The main switchboard feeds the existing ice rink distribution, existing ice rink area lighting, receptacle, and equipment load.

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Kennedy Plaza/Trolly House Electrical Distribution (Blue)

Existing Electrical Service: 800A 208/120V 3 Phase

There are three separate metered services as part of this distribution. They are divided into site lighting, base building services and tenant (i.e. coffee shop) services.

Memorial Blvd West (Purple)

Existing electrical distribution: 225A 480/240V 1 Phase

Distribution location: near Intersection of Francis Street and Memorial Blvd. This distribution feed existing street lighting along Memorial Blvd between Francis Street and Exchange Street based on site investigation. All the new streetlight will be refed from existing services.

Memorial Blvd East (Orange)

Existing electrical distribution: 225A 480/240V 1 Phase

Distribution location: near Intersection of Canal Street and Park Row.

This distribution feeds existing street lighting along Memorial Blvd between Exchange Street and Steeple Street based on site investigation. All the new streetlight will be refed from existing services.

Tunnel under Memorial Blvd (Dark Blue)

Two separate existing electrical distribution that feeds this area:

Panel (208/120V) inside the Marriot Hotel AV Room feeds the linear downlight that along the pedestrian tunnel underneath the Memorial Blvd.

The up-light inside the glass island that is visible from the Memorial Blvd is fed by the Memorial West (purple) distribution as discussed above.

Biltmore Park West (Bright Green)

Existing electrical distribution: 200A 240/120V 1 Phase

Distribution location: located in the park

This distribution feed park and street lighting in the area.

Biltmore Park East (Pink)

Existing electrical distribution: 200A 240/120V 1 Phase

Distribution location: located in the park near the Trinity Beer Garden

This distribution feed park and street lighting in the area.

Burnside Park (Red)

Existing electrical distribution: 400A 208/120V 3 Phase

Distribution location: located in the park.

This distribution feed the imagination center, statue lighting and water fountain in

the park.

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Figure 7 - Existing Electrical System

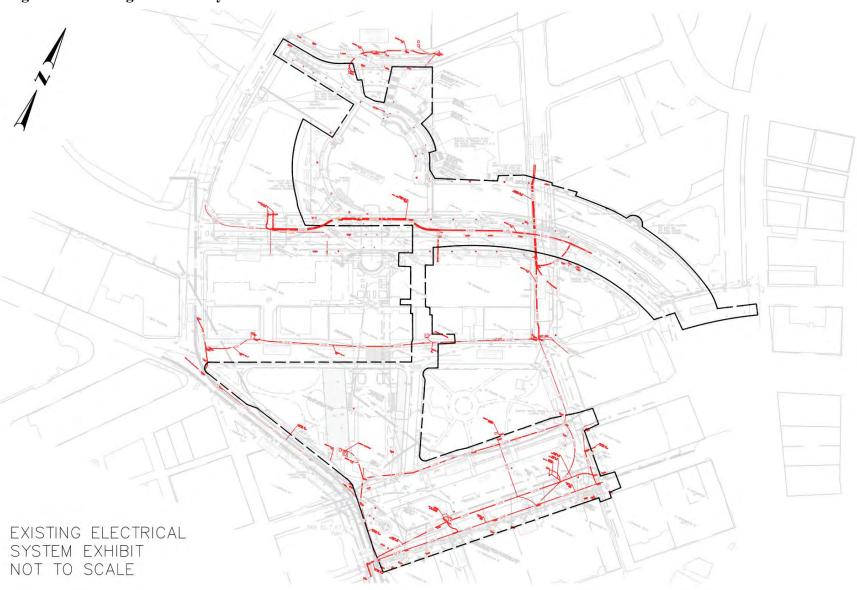


Figure 8 - Existing Electrical System by Area



6.2 Proposed Electrical Services Modification

Existing electrical distribution at different areas will be removed and modified due to building demolition and re-designed to accommodate the new load, such as water feature, new ice rink. This area will be discussed in detail below. Please see **Figure 9** for proposed electrical distribution

Waterplace Park Electrical Distribution

Existing Electrical Service: 400A 480/277V 3 Phase Increase electrical Service to 600A 480/277V 3 Phase.

The main factors that is driving the electrical service increase at this location is the addition of the mist ring water feature. The total estimated electrical load is 290kVA, which is 349A at 480/277V, which is at 87% of the existing service size. The existing electrical service don't have the capacity to support this load without overloading the existing service, therefore the existing electrical service size needs to be increased.

The increased electrical service will include the existing distribution load originally feeds the site lighting along the river walk and miscellaneous building load, which is estimated to be around 100A at 480/277V as a metered value. (This will be subject to 30-day meter verification). This upgraded service will also accommodate the event venue power that would be designed for the amphitheater which is estimated at 125kVA 152A at 480/277V. Please note, the event venue company switch load is calculated using a 50% diversity factor.

Table 2 - Waterplace Park Electrical Service

Waterplace Park Electrical Service Size			
	Ampacity at 480/277V		
Existing Building Load	100A		
New Water Feature	349A		
New Event Power	152A		
Total	600A		

As discussed above and summarized in **Table 2**, the Waterplace Park electrical distribution service is required to upgraded to 600A to accommodate the additional load.

Exchange Terrace (Existing Ice Rink) Electrical Distribution (Yellow) Existing Electrical Service to remain: 800A 480/277V 3 Phase

This electrical distribution's main switchboard which is located underneath the Exchange Terrace maintenance tunnel will remain as existing. The existing

electrical utility transformer and switchgear that feeds this distribution will be relocated due to new café location. A new 100A 208/120V panel will be provided to the new café.

The existing infrastructure that feeds the existing ice rink inside the maintenance tunnel will be removed.

This distribution that feeds the BankNewport City Center that is located along Washington Street will be removed due to proposed building demolition.

Kennedy Plaza/Trolly House

Existing Electrical Service to be removed: 800A 208/120V 3 Phase New Electrical Service Size for Welcome Center: 100A 208/120V 3 Phase New Electrical Service Size for Liner Building: 1600A 480/277V 3 Phase

Due to building demolition, the area that is being removed houses the main incoming utility services, the entire electrical service to the building will be removed. Also, due to the change of building usage to a Welcome Center, electrical service size to the new building could be reduced to 100A 208/120V 3 phase.

A new 1600A 480/277V service is proposed for the linear building, which will sub feed the 'Big Shade' building as well as the new ice rink and water feature.

Tunnel under Memorial Blvd

Existing electrical distribution to this are shall be removed.

There are two separate existing electrical distribution that feeds this area. There is an electrical panel (208/120V) inside the Marriot Hotel AV Room feeds the linear downlight that along the pedestrian tunnel underneath the Memorial Blvd. The uplight inside the glass island that is visible from the Memorial Blvd is fed by the Memorial West (purple) distribution as discussed above.

All existing electrical distribution that feeds the existing lighting within the tunnel will be removed back to source as outlined above due to the removal of the tunnel.

Connector

New Electrical Service: 225A 480/277V 3 Phase.

This distribution intends to feed the street lighting for the connector and connect the solar panel generation that is produced by the solar canopy.

Given the square footage of the solar canopy, the solar panel capacity is estimated to be 70kW AC. Exact capacity to be determined by the solar vendor. The amount of solar generation is very likely to exceed the power consumption of the street lighting proposed for the area. The excess amount will likely need to sell back to

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the electrical utility. This will require further coordination between the solar vendor and the electrical utility.

All final service connections will be coordinated with the appropriate utility companies and the City of Providence as the Project design progresses.

6.3 Electrical Design Development Recommendations

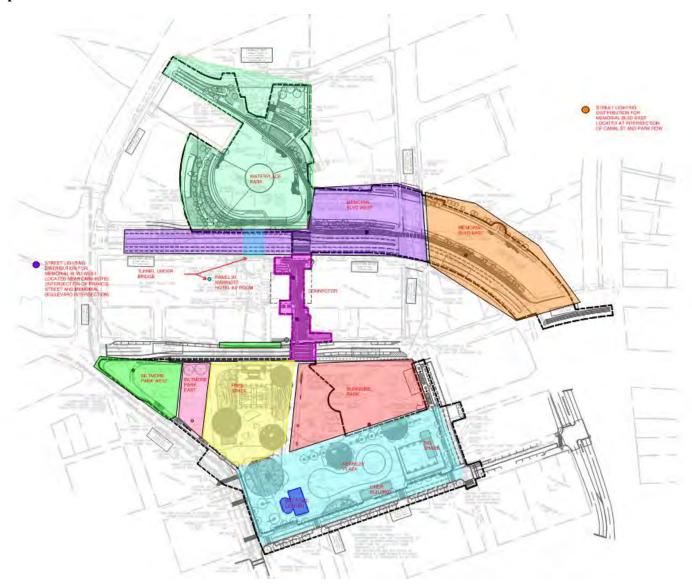
Recommendations and considerations for future design development include:

- It is recommended that the city tender a RPF for the solar design for the connector to explore various solar design and finance options (such as PPA agreement).
- The electrical utility will also need to be engaged to ensure there is sufficient solar interconnection capacity for the area. Potential available energy rebate program could also be explored with the electric utility.
- The existing site lighting has various lighting pole and various parts numbers. It may be beneficial to consider standardize site lighting for ease of future maintenance.
- All proposed new utility service size is subject to National Grid service connection approval.

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Figure 9 - Proposed Electrical Distribution



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7 Telecommunication Services

7.1 Existing Telecommunication Services

Desktop surveys and review of existing records revealed a variety of telecommunications infrastructure in the Project vicinity. No sub-surface investigation was performed to validate these services, and it is recommended that this investigation be performed in future phases of design.

The survey revealed that Verizon & Cox Communications own and maintain telecommunication infrastructure within the Project area. An underground telecommunication line runs through Memorial Boulevard. Another telecommunication line runs south down Dorrance Street and ties into two parallel telecommunication lines that run through Fulton Street (along the southern side of Kennedy Plaza). Additional carriers identified during the desktop review include AT&T and Crown Castle, which may host infrastructure on behalf of other carriers.

See **Figure 10** for the existing telecom system.

In addition, the desktop review of telecommunications provider infrastructure revealed metro and long-haul fiberoptic communications networks throughout the project area, notably along Washington St., Exchange Terrance, and Memorial Boulevard.

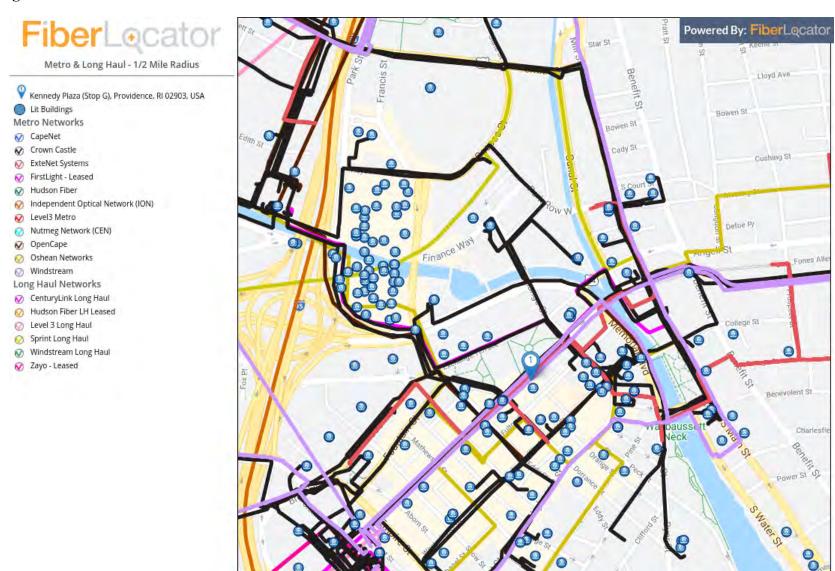
See **Figure 11** for the metro and long-haul fiber providers.

Note that these carriers likely have some franchise rights to occupy and access public rights-of-way. Given the consideration of closing Washington Street to vehicular traffic, the Client should plan for accommodating carrier access to utilities beneath Washington Street. Planning for this access proactively can help avoid the unfortunate situation of carriers disrupting or destroying finish landscaping to access their services.

Figure 10 - Existing Telecom



Figure 11 – Fiber Providers



 Map data @2021 Terms of Use

Leaflet | © CCMI

7.2 Proposed Telecommunication Services

There will be a site-wide fiberoptic communications infrastructure – including cabling, pathways, spaces, and other supporting elements – to provide data and internet connectivity to occupants and operators of the space. Connectivity will include

- Wired local area network (LAN)
- Wireless local area network (WLAN, or WiFi)
- Cellular carrier coverage (4G LTE and/or 5G)

Primary telecommunications headend equipment will be located in the Free Space area within the existing telecommunications space located just south of Exchange Terrace Road, room to be fit out by others. This headend equipment will distribute communications signals (including internet service) to devices across the site. Headend equipment will be located in a dedicated, secured space of approximately 500sf with appropriate cooling, humidity control, and normal/backup power.

Communications service providers will bring their service into the Telecom Headend, and this will serve as the demarcation point between service provider infrastructure and Client infrastructure. Based on the telecommunications providers infrastructure survey results we believe a variety of providers will be available to provide service at the Telecom Headend.

All final service connections will be coordinated with the appropriate utility companies and the City of Providence as the Project design progresses.

We expect that many site digital systems will require some network-connected headend equipment, and this equipment should also be located within the Telecom Headend, where feasible.

Given the size of the site, there may be need for several satellite telecommunications distribution points in addition to the Telecom Headend. Satellite distribution points will consist of a weatherproof enclosure either pedestal-mounted in an inconspicuous location or pole-mounted. Alternatively, custom-built structures (such as digital signage monuments) can be designed with space provisioned for telecommunications equipment.

These distribution points will be connected to the Telecom Headend via telecommunications cabling and will support technology systems within their vicinity. Data will distribute to end devices predominately via fiberoptic cabling.

See Figure 12 and Figure 13 for schematic exhibits of the proposed telecom system.

7.3 Telecommunication Design Development Recommendations

Recommendations and considerations for future design development include:

- Client should consider network deployment and operational support during the design phase since there are service models and providers that could deploy and support the networking needs of the Project.
- These providers also sometimes offer partnership/sponsorship opportunities that may be beneficial to the project. The Client should investigate these opportunities during the design phase.
- Determine what rights/franchise agreements different telecommunications providers (and the City itself) have in the Project vicinity to ensure that the design considers these various requirements. This should include what sort of access carriers may require to their infrastructure under Project streets.
- Engage cellular carriers to understand their deployment plans for 4G LTE and 5G service across the Project and whether supplemental coverage (e.g. from an outdoor distributed antenna system) is required.
- Determine how resilient/reliable communications services should be at the project to inform design decisions such as redundancy.
- Plan for the deployment and support/operation of technology systems, including telecommunications, in both capital and operating budgets, as these systems are often overlooked.

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Figure 12 - Proposed Telecommunications Site Plan - North

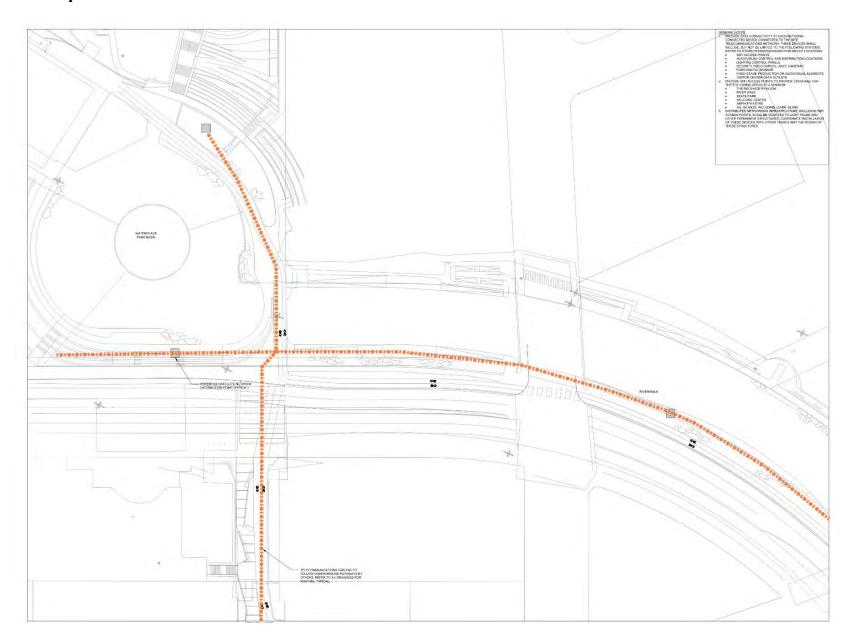
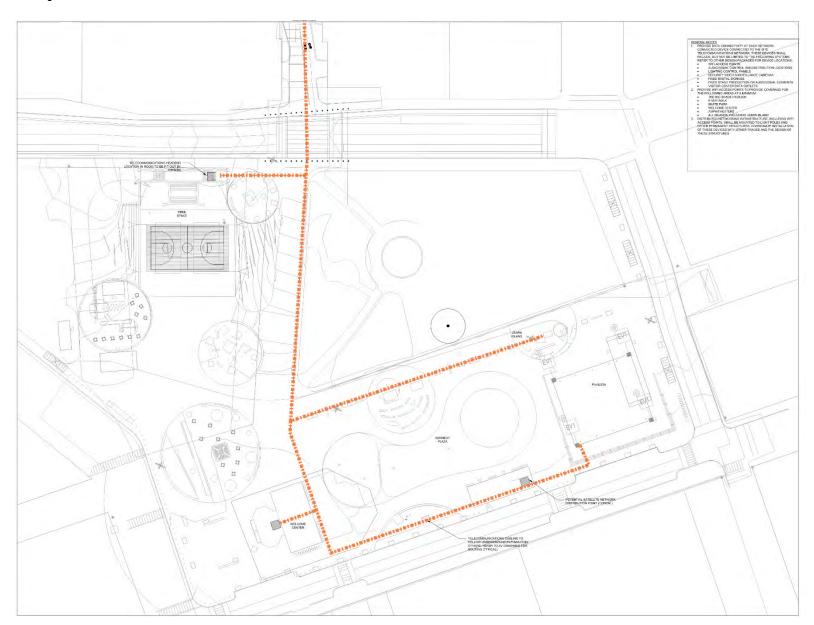


Figure 13 - Proposed Telecommunication Site Plan - South



8 Natural Gas System

8.1 Existing Natural Gas System

National Grid provides natural gas service in the Project area. There are several gas lines that loop around the site, but their sizes have not been identified.

A network of gas lines exists north of the Woonasquatucket River and runs along Finance Way.

A gas line located at the Woonasquatucket River on U.S. Route 1/Francis Street runs south towards Exchange Terrace. This gas line connects to a network of gas lines that run down Memorial Boulevard and Steeple Street.

Another gas loop runs down Dorrance Street until it connects to a network of three gas lines that run down the southern side of Kennedy Plaza in Fulton Street to a system in Exchange Street.

See Figure 14 for the existing natural gas system.

Figure 14 - Existing Natural Gas System



8.2 Proposed Natural Gas System

Proposed gas service connections are expected for the proposed café building in the Free Space area, the rink liner building, as well as the café under the Big Shade. These are expected to tie into the existing loops in Dorrance Street, Fulton Street, and Exchange Street respectively.

Final service and appropriate connection points will be coordinated with National Grid as the Project design progresses.

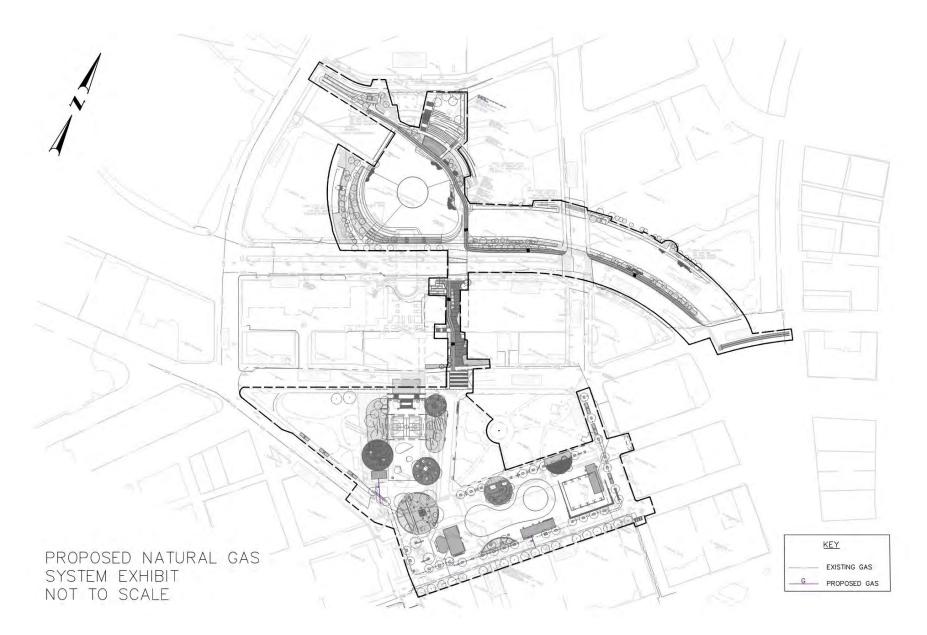
See Figure 15 for a schematic exhibit of the proposed natural gas system.

8.3 Natural Gas Design Development Recommendations

Recommendations and considerations for future design development include:

- Additional subsurface survey investigations should be performed to confirm sizes and locations of existing gas loops surrounding the Project site.
- Final service and appropriate connection points should be coordinated with National Grid as the Project design progresses.

Figure 15 - Proposed Gas System

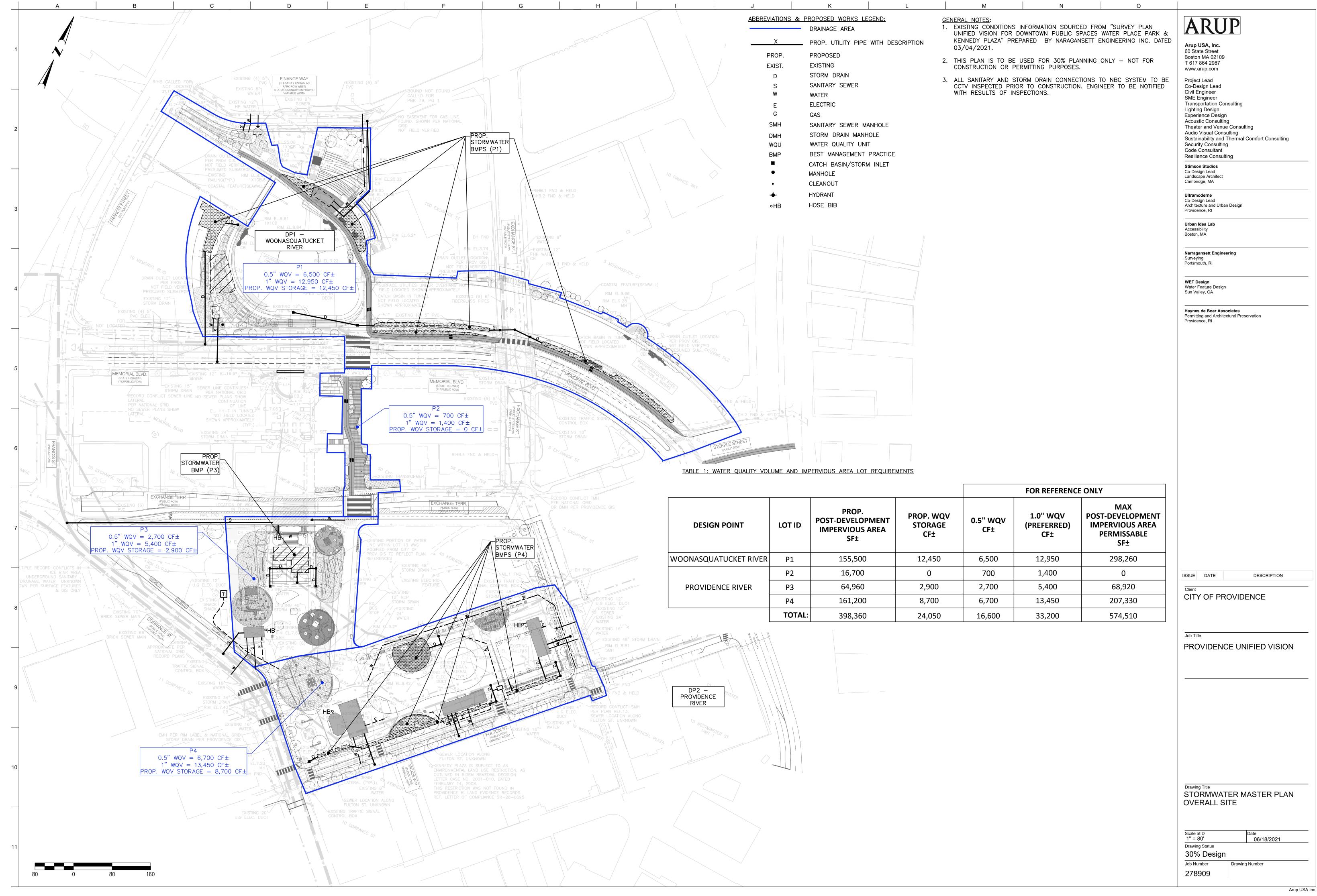


Appendix A - Utility Company Correspondence Log

Date	Description	Correspondence Type	Contact Name(s), Agency
12/23/20	Discussion of project and potential permitting requirements	Microsoft Teams Virtual Meeting	Jeff Crawford, RIDEM Dan Goulet, CRMC Megan DiPrete, RIDEM Ron Gagnon, RIDEM Neal Personeus, OWR Nicholas Pisani, OWR Rich Lucia, CRMC Kelly Owens, RIDEM James Boyd, CRMC
3/5/21	Joint agency permitting conversation	Microsoft Teams Virtual Meeting	Joseph Antonio, RIDEM Jeff Crawford, RIDEM Dan Goulet, CRMC David Everett, City of Providence Margaret Goulet, NBC Martina Haggerty, City of Providence Neal Personeus, OWR Kelly Owens, RIDEM Jessica Pflaumer, City of Providence Nicholas Pisani, OWR Rich Lucia, CRMC
4/13/21	CSO Tank Opportunity Discussion	Microsoft Teams Virtual Meeting	Tina Moretti, NBC
5/12/21	Conversation about 30% design plans	Microsoft Teams Virtual Meeting	Andy Pion, PVD Water Seth O'Connell, PVD Water Michael DiNobile, PVD Water
5/12/21	Conversation about 30% design plans	Microsoft Teams Virtual Meeting	Margaret Goulet, NBC Tina Moretti, NBC
5/21/21	Reach out to National Grid for underground distribution discussion	Voicemail	National Grid 1-800-260-0054
5/28/2021	Reach out to National Grid for underground distribution discussion	Voicemail	Matt Kaplam, National Grid Underground PM
6/8/21	Existing Water Main in Kennedy Plaza Coordination/Discussion	Microsoft Teams Virtual Meeting	Jessica Pflaumer, City of Providence Andy Pion, PVD Water

^{*}Additional e-mail correspondence not noted in table above

Appendix B - Stormwater Master Plan



Providence Unified Vision Outdoor Ice-Skating Rink

ICE RINK SYSTEMS SCHEMATIC DESIGN NARRATIVE

Providence, RI

June 14, 2021 B32 Project No. 900-21-409



B32 Engineering Group, Inc. 2211 O'Neil Road Hudson, Wisconsin 54016 www.b32eng.com

> Ph: (651) 256-3090 Fax: (715) 808-0842

DESCRIPTION OF REFRIGERATION SYSTEM:

DESIGN CRITERIA

Operational Season: 4 months per year (approximately November 15th to March 1st)

Ice Thickness: Typically, will be maintained near 1 ½"-2" thick.

Refrigeration System Layout: Shall be "stick-built" on-site with code required clearances around each piece of equipment in place of a packaged common framed system or skid mounted system

Refrigeration System:

Total chiller capacity: 180 tons

Total compressor capacity: 180 tons minimum

Total cooling tower capacity: Full system capacity and ability to run dry, without fins, at 65% of

system capacity at 32 F and below (dry operation below

freezing).

Primary Refrigerant: Ammonia (R717).

Secondary Refrigerant: 40% Ethylene Glycol and water solution.

Ambient Design Conditions: 76 °F wet bulb, 85 °F dry bulb. (ASHRAE 0.4%)

Electrical Service: To be provided to ice system motor control center by electrical

subcontractor. Ice Rink contractor to make connection to MCC.

Waste Heat Reclaim System:

Total capacity System 1: 360 MBH (snow melt pit)

Total capacity System 2: 160 MBH (preheat domestic water or building heat)

Primary Refrigerant: Ammonia (R717)
Secondary Refrigerant: 35% ethylene glycol

QUALITY ASSURANCE

Contractors wishing to bid/quote on this project must submit to the Engineer the following prequalification criteria at least seven (7) calendar days prior to the bid date.

As evidence and assurance of the contractor's ability to construct the project and support the Owner's system with service the contractor must have successfully completed five (5) ice rink construction projects that are similar to this project were completed within the past five (5) years. Submit information on each project. Submittal shall be on company letterhead, signed by an authorized representative of the company and include; project description, portion of project completed by the company, location, construction cost, completion date, owner's name, owner's representative, phone number and completion date of work.

As evidence and assurance of the contractor's concrete subcontractor's ability to construct the project the concrete subcontractor must have successfully completed the placement and finishing of concrete on four (5) concrete ice rink floor construction projects within the past five (5) years. Submit information on each project. Submittal shall be on company letterhead, signed by an authorized representative of the company and include; project description, portion of project completed by the company, location, construction cost, completion date, owner's name, owner's representative, phone number and completion date of work.

Submit the name of at least one (1) person employed by the company that will supervisor the fusion welding process along with their certifications, training and qualifications for performing the fusion welding process for high density polyethylene pipe (HDPE).

Contractors wishing to bid on this project shall perform an on-site investigation prior to submitting a bid for the project. Contractor shall field verify all equipment and materials that will be affected by the work of

this project and report any concerns to the Engineer at least five (5) business day prior to the bid opening date.

MATERIALS AND EQUIPMENT

Motor Control Center - Motor Control Center (MCC) to house and including all starters, breakers, controls, running lights, contacts, relays, switches, fuses, safety switches, alarms, overload relays, resets, and all other electrical devices required for a fully operational ice system. Shall be a dead-front, free standing unit, Type 1 enclosure in accordance with UL 508, UL845 and shall be NEMA rated. Shall include copper ground bus, disconnects with means of padlocking in lock out position, fault current rating of 42,000 amps, non-insulated equipment ground bus, and rated for 480 volt, 3 phase, 3 wire, 60 hertz electrical service. 800 amp service to be provided by building electrical subcontractor.

Compressors - Three (3) screw compressors with oil separators, controls and all other materials for a complete operating system with a complete automatic oil return system, and TSOC oil cooling system. Bitzer OSKA-8571-K ACP Package or approved equal. Package shall come in 2 separate pieces to fit in existing door.

Chiller System - One (1) flooded, shell and tube type chiller with surge drum, oil pot, level column. Chilcon or approved equal.

High Pressure Receiver System - One (1) high pressure storage receiver sized for full capacity of system plus required safety volume.

Rink (circulation) Pumps - Four (4) pumps includes one primary for each zone and one back up pump. VFDs on all pumps. Pumps shall have all stainless steel impellers and other internal parts for use with calcium chloride. Bell &Gossett or approved equal. Estimated 40HP to 50HP motors.

Evaporative Condenser & Associated Components - Evaporative type, low profile condenser, remote water sump, submersible pump, VFD on fan motor, motor upsized for dry operation, Baltibond coating, Tri armor protection or stainless steel, and chemical treatment system with one year supply of chemicals. Provide exterior access ladder and service platform. Baltimore Aircoil or approved equal.

Ice System Electrical - Free standing Motor Control Center for all ice equipment.

Ice System Controls - Computer control system that monitors and controls all temperatures, pressures, runtimes, etc. for all equipment and systems. Owner to determine final monitoring points. 14" minimum touch screen with graphics for all major equipment. Shall be accessible through internet connection. Provide all control and monitoring points and alarms to the Building Management System (BMS) or Energy Management System (EMS). Alerton or an approved equal manufacturer.

Expansion tanks - For rink floor and snow melt systems.

Refrigerant Piping Systems (above grade) - Schedule 40 and 80 welded steel

Refrigerant Piping Systems (below grade) - Fusion welded polyethylene SDR 11

Pipe and Equipment Insulation Systems – Extruded polystyrene with PVC jacket.

Waste Heat Recovery System – one (1) shell and tube heat exchanger by Chilcon or approved equal, stainless steel snow melt coil, one (1) pump - Bell & Gossett or approved equal, and controls. Two (2) desuperheater type heat exchangers by Therma-Stor or approved equal.

Life Safety Systems:

One ammonia leak detection and alarming system with five (5) audible/visual alarms and one (1) remote panel by Bacharach or approved equal.

One water diffusion tank to contain a full release of ammonia from the system.

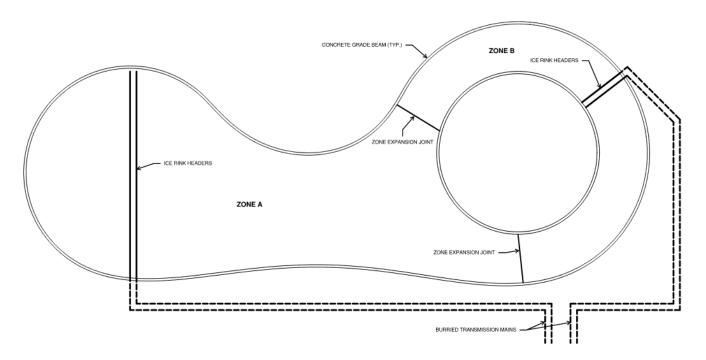
Emergency refrigeration system stop controls.

PPE Respiratory, protective gear and masks.

Training - Full start-up and training services shall be provided.

Ice Making: Contractor to make first ice sheet.

DESCRIPTION OF ICE RINK FLOOR SYSTEM:



Ice Rink Slab Area = 16,500 S.F.

MATERIALS AND EQUIPMENT

Concrete: 6-inch thick, 5,000 psi, w/c ratio = 0.40, 6% air entrained. Ice rink floor will have slight sloping.

Rink Piping:1" SDR11 HDPE @ 3" O.C. w/ fusion welded connections.

Support chairs: 2' o.c. over entire floor.

Reinforcement: #5 @ 12" O.C. each way, WWF - 6X6 W2.9/W2.9 WWF epoxy coated.

Floor Insulation: Two (2) layers of 2" extruded polystyrene (4" total thickness), 40 psi and vapor barrier on top and bottom of insulation layer.

Perimeter Expansion Joint: 2" PVC Compression Seal, Wabo or approved equal.

Zone Expansion Joint: 2" PVC Compression Seal, Wabo or approved equal with stainless steel angles and plates.

Header System – 8"-6" SDR 11 HDPE Header, Tee System, fusion welded connections

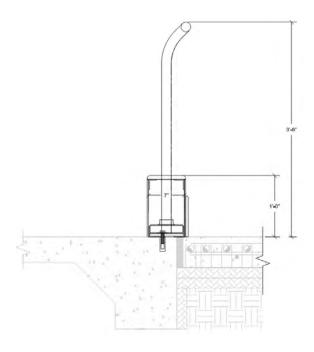
Transmission Mains: 8"-6" SDR17 HDPE with 3" thick Foamglass with Pitwrap jacketing

Temperature Sensors: One (1) ice rink floor system sensors per zone.

Concrete Perimeter Curb/Grade Beam: 12" Wide x 48" Deep. Reinforced concrete, 4,000

PSI, 6% air

DESCRIPTION OF DASHERBOARD/RAILING SYSTEM:



Dasher board /Railing Length: 875 LF

Framing: Aluminum, Aluminum shall be structural alloy 6005A-T6. Architectural alloy is not acceptable. Shall meet ASTM B221 and Federal Specifications QQA200-9. 8-foot-long panels x 7 inch wide.

Fiberglass: (facing, kickplate, topsill, backer, bench, threshold)- High impact, UV stabilized, exterior grade fiberglass. Color White.

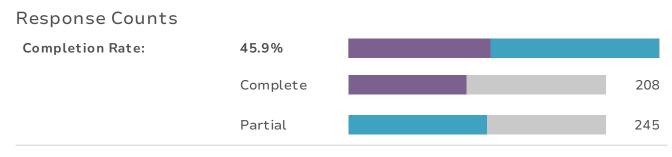
Railing: Furnish and install aluminum railing system to be integrated into the dasher system. Post and Railing Pipe: 1.9" OD Schedule 40 Clear Anodized Aluminum Pipe Rail Tubing, 6061-T6. Railing Color: Black

Gates: Provide (1) 10'-0" wide equipment gate.

Floor Anchors – 5/8" x 3" zinc plated with bolt, washer and base plate.

END

Report for Imagine Downtown Providence - Project Feedback



Totals: 453

1. What is your zip code? (optional) ¿Cuál es su código postal? (Opcional)

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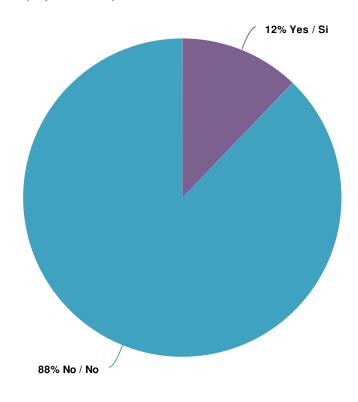
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ResponseID	Response
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ResponseID	Response
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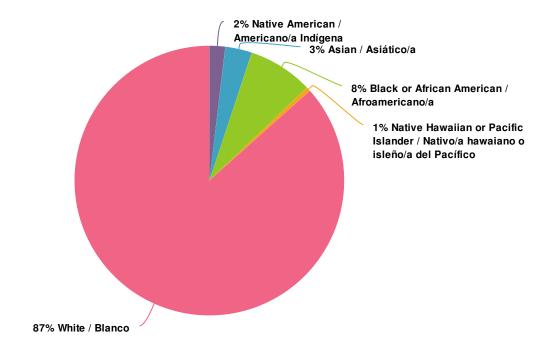
2. Do you identify as Latinx or Hispanic? (optional) ¿Se identifica como Latinx o hispano? (Opcional)



Value	Percent	Responses
Yes / Si	12.2%	49
No / No	87.8%	353

Totals: 402

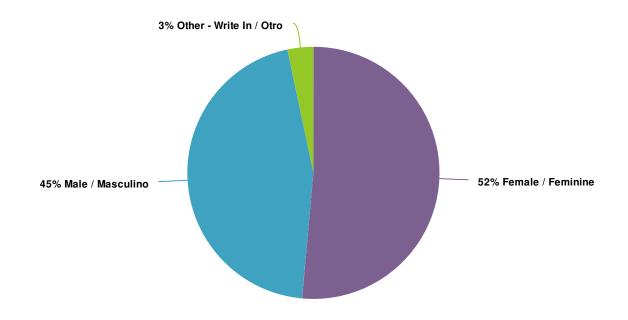
3. Select one or more of the following races. (Optional) Seleccione una o más de las siguientes razas. (Opcional)



Value	Percent	Responses
Native American / Americano/a Indígena	1.9%	7
Asian / Asiático/a	3.2%	12
Black or African American / Afroamericano/a	7.8%	29
Native Hawaiian or Pacific Islander / Nativo/a hawaiano o isleño/a del Pacífico	0.5%	2
White / Blanco	86.6%	323

Totals: 373

4. What is your gender? (Optional) ¿Cuál es su género? (Opcional)



Value	Percent	Responses
Female / Feminine	51.5%	206
Male / Masculino	45.3%	181
Other - Write In / Otro	3.3%	13

Totals: 400

Other - Write In / Otro	Count
Genderqueer	2
Non binary	1
Non-binary	1
i do not like this complete pc.	1
non-binary	1
she/they	1
Totals	7

5. What excites you about the proposed project for the public spaces of downtown Providence? ¿Qué le entusiasma del proyecto propuesto para los espacios públicos del centro de Providence?



ResponseID	Response
15	I like that the Kennedy will become more pedestrian friendly and there will be amenities like the splash park, the skate park (should be bigger) and the ice rink. I also like that improvements will be made to the waterplace park walkways.
16	I LOVE the integration of trees and along the river (which right now feels like a very artificial trough) If you can pull off that and that alone that will be a huge victory.
17	The activity features, especially the water features, the eco-friendly, climate adapted riverwalk, the connection to the Woonasquatucket River Greenway to downtown. Really all of it but those are the most exciting to our little group.
18	The proposed project enlivens the downtown area - will be a draw for people in all seasons. It tries to address needs / desires of many different communities - including the needs of homeless. This is very exciting!
27	the facelift is much needed for Providence. Also, the focus on safety is great. Waterplace park has become a breeding ground for drug deals and sketchy activity. It needs to be changed as it is the most beautiful part of Providence and is becoming a bad place to be
30	The proposed larger space for events and the playground / skating area for the kids

ResponseID	Response
31	I love Providence and would like it to be more walkable and safe.
33	Great ideas but need a new mayor who doesn't allow for atvs and dirt bikes to terrorize providence residents and keep them away from downtown
35	I'm glad to see attention has been paid to rising water levels and resiliency in general along the river. It doesn't excite me (it makes me sad about the failings of society, but that's rather out of your scope!), but it's totally necessary. I also am glad to see a focus on more vegetation.
36	I love the idea of having more, safer, walking areas that connect to one another
37	Raising the basin to accomodate sea level rise; a shade area in the plaza; priority to pedestrians; lots of green space.
38	It's a good opportunity to drastically improve downcity for the better without harming low income people who use the bus system.
39	The larger ice rink is very nice. The free space seems like it is geared to younger people/teenagers who need a space to hang out. the large walk ways around the basin is nice because it gets very crowded during Waterfire.
42	Get rid of the rogue motorcycles.
43	I love what i saw. The green space generated and the connection with waterplace is a great idea.
46	Making it 100% pedestrian is very exciting.
47	A well defined, well-lit, well connected space that seamlessly brings many public spaces together with lots to do!
48	The expanded space in the heart of downtown is really exciting.
50	I am really excited to hear that this is being considered!! I feel the city really needs an uplift. The walkways I am particularly excited about since I love to go to waterfire, but it can be hard to walk on the sidewalks that share the busy road with kiddos.
52	I am against the plans. The plans to do away with Kennedy Plaza will only make the ability to access public transportation more difficult. Why not allocate the funds for the stupid waterpark to go for making transportation free to all????

ResponseID	Response
56	Having a pedestrian-friendly city center for social gathering or events. However, now it is a concrete jungle. Need more trees and other greenery, vegetation. Too many homeless people there that bother people. I walk around the plaza when walking downtown to avoid that area now.
58	I like the idea of connecting Kennedy Plaza and Burnside part. Also the new skating rink and splash park look much more inviting.
62	A mist ring????? Are you kidding me???? I am begging you to reconsider. I will have to avoid an entire area of providence because I don't want to get wet???? This is the most asinine way to spend tax money.
65	I am disturbed by the plan to disrupt/destroy the transportation hub of Kennedy Plaza. The working and poor population of Providence and RI require a centralized bus hub downtown
68	More accessible and safe! pedestrian areas and walkways, better access to public transportation, accessible safe and clean social services and restrooms
70	Mist ring, comprehensive view
71	I do not think it's fiscally responsible to attempt another redesign of the downtown Kennedy Plaza area. I don't think a multi-hub public transportation system is beneficial to the citizens, but an expansion of service would be fantastic. I think the proposed project for downtown is yet another attempt to push out the vulnerable, the homeless, without actually doing anything. I think that the majority owner of downtown properties would love to eliminate anything that might inhibit his real estate profits. I think the project is pie in the sky bullshit being leveraged for a campaign run by the current mayor of the city.
72	Kennedy Plaza being broken up, and not a giant bus terminal in the center of downtown
73	It seems to make a beautiful city even more so©□
75	I like the idea of a multi hub transit system in providence. I would like to see a more connected system with routes that run through necessary, need to get to areas. The best system I can think of it Washington, DC metro. They have a number of major hubs that serve as connection points, though I rarely needed to make connections at more than 1 place.
76	I like the walkway across Memorial Blvd.
77	Walkways

ResponseID	Response
78	It looks like a lovely thing to visit once, but a pretty stupid collection of features for people who want a city, not a theme park.
80	I am angered by the removal of bus lines from Kennedy Plaza in order to build a theme park. Thi plan does not serve the transit riders.
82	Better saftey and attraction to Downcity
84	Very little
86	Looks like fun, but inconvenient for bus riders, that gets me excited in not a good way.
88	Honestly I feel it is all flash and no real substance. As a disabled person, I personally find it infuriating you want to pretty much make it harder for passengers like myself to catch our connector buses. I have to come into Providence after being stuck on one bus and then try to make it to the next one to go many specialist doctors. The fact that everyone is hell bent on turning Kennedy Plaza into a glorified overpriced water park, is not only infuriating but insulting! Just goes to prove where the powers of be priorities arewhich are not with the disabled, elderly, or persons of color as that is the huge chunk of the RIPTA consumer groups and the ones you will be making life that much harder for! Again, welcome to Rhode Island where a great many get shafted to please and make happy a wealthy few!
90	Making the area more usable Reminds me of Boston Common and Hatch Shell spaces which are fabulous!
91	I'm not excited because I ride RIPTA to and from work and the current plan will make it hard for working people that depend on RIPTA!
95	While Kennedy Plaza needs updating, displacing people to do so isn't a sound decision.
99	I really like the proposals for Riverwalk and the stage/support parts of the Kennedy Plaza suggestions, and getting bus stops to the edges. Moving the skating rink and having a summer water feature sounds lovely if the funds are there to maintain them.
100	large pedestrian space for people formed by closing off Washington St and connecting rink, Burniside Parkl recognition we need bathrooms; encouragement of cafes, kiosks
103	I am not necessarily opposed to everything presented, but I am concerned about displacing poor people, inconveniencing bus riders and hiding the homeless. I have spent a decent amount of time in the downtown area, including Kennedy Plaza, and don't feel the need to displace people in order to enjoy the playground, music events, PVD Fest, etc.

ResponseID Response

105	Nothing
107	Removing traffic between the park and plaza.
108	I am not very excited about this project. I do like the aspect of redesigning the riverwalk area to withstand rising water levels, and I think the "Big Shade" is a cool idea, but one that could be incorporated without undermining local transit. I am very concerned about the effect this plan will have on transit riders. I believe this will increase commute times, inconvenience riders (especially the elderly and disabled), and ultimately burden riders with higher costs. I think the overpass connecting Kennedy Plaza to Waterplace Park is a gigantic waste of money. You could easily improve the current tunnel for a tiny fraction of the cost. The mist ring is also a terrible idea and a waste of money.
110	Nothing, it is a horrible idea from start to finish, reflecting a total disconnect with how people would really use downtown.
111	Only thing good about this proposal is the elevation of the walkways due to future sea level rising.
112	Nothing excites me Downtown has a beautiful esthetic about it, classic structures and attractions that already struggle to keep appearances with all the drug use and destruction of property in the city. Let's focus on keeping those clean and attractive. Use the money to beautify other sections of the city.
113	Just horrible. It works now, don't break it. So thoughtless, obvious the folks who designed don't live here. Enjoy pvd fest, waterfire, skating rink. Is this a political favor? New hotel opening nearby? if you're planning on using covid money for this, throw it to all the little businesses in the city that need it, don't spend it on this project.
114	Not much. Would never consider it to be a "destination" spot. Families want to stay close to home in a walkable neighborhood. Continue to spend more money on parks and community resources and leave downtown to the people who utilize the area. Provide resources they want. I listened to the zoom presentation and the language/words used were technical. Was always thought that you should do a presentation as if you were speaking to a group of high school students.

ResponseID	Response
116	I think it's asinine!!! 140 million dollars on this???? Essentially a place for the homeless to use as a toilet and a place to bathe!! Do you really think people are going to go downtown with kids in bathing suits in July????? WAKE UP. The roads are a mess, the highways and streets are FILLED with littermy street hasn't been swept in 10 yearswe have illegals on ATVS disrupting trafficwhoever thought of this needs their head examined!!! must be the same brainless person who did the Eaton St bike lane and all those stupid red lanes for busses!!! Spend the money on schoolsthey're falling down!! Classical has no seats in the auditorium and NO air conditioning!!!!!! Hellooooo???????? NO HATE IT
117	The whole project
118	I think there are pros and cons. The biggest con is the idea of needing to cross memorial blvd. That will add to an already high traffic area. The tunnel is great, it just needs better lighting and safety procedures.
119	The climate resilience plan for Waterplace Park makes a lot of sense, and should be implemented no matter what.
121	Nothing - this is a complete waste of money when infrastructure is lacking throughout our city. FIX OUR ROADS AND SIDEWALKS!!!!
122	Instead of moving public transit and putting in something nobody is going to use is a waste of tax payer dollars. The people that you want to use this will have to take public transit to do so. Plus, most neighborhoods have splash pads, and the ones that don't should have one put in instead. This is not only visually unappealing, it doesn't fit with the current vibe downtown. How about using said money to fix our infrastructure? Huge 'thumbs down'
123	Nothing at all. Instead of spending money on a mist fountain perhaps the money should be spent on improving our neighborhood streets by resurfacing the roads in neighborhoods as well as REGULARLY scheduled street sweeping of all the litter and leaves in the gutters.
126	I'm excited that Providence and RI officials want to contribute improvements to downtown Providence. I do not like that dismantling Kennedy plaza has been shrouded under the guise of these improvements, however. It's should be outright embarrassing for any of you who are reading this to think that dissolving KP and making it harder for poor, old, disabled residents and residents of color in this state, is a good idea. Literally thousands of people rely on KP on a daily basis for life sustaining connections. Dissolving and it to turn downtown into a park is a terrible idea. When there are acres of parking lots that could be purchased for this use (while building more efficient parking garages) would be a much better use of these ideas, energy and money.
127	The removal of Kennedy Plaza as it stands today would be detrimental to all of those that utilize the area for transportation needs.

ResponseID	Response
128	Kennedy Plaza has been, and continues to an essential resource for low income workers for dependable public transportation. Please don't hurt the working class by limiting their resources.
131	Anything that uses dirty energy, destroys greenspace, or pollutes our soil air and water goes against the principles of emerging and future generations. Please just keep that in mind while compleating these projects.
134	I think it would be fine to incorporate some of these elements elsewhere into the city, but eliminating an imperfect but very much-needed bus hub in order to make Kennedy Plaza more appealing to moneyed interests is a terrible idea.
135	Dissolving Kennedy Plaza is a terrible idea because it creates LARGER gaps of inequity for the people of Providence.
136	Nothingbreaking up Kennedy Plaza is a huge mistake. It will make it far more difficult for people to access public transportation. We need to be investing in our public transportation, not destroying this infrastructure.
138	I'm not at all excited about the Kennedy Plaza bus terminal break up. It's clear the Governor and all affiliated parties are not at all interested in the ease of public transportation use for the people who actually use it, largely poor folks, largely black and brown people, and are more interested in the financial standings of people with money to invest. The citizens of this city and state deserve better than that.
139	Nothing
140	I am concerned about the plans for Kennedy Plaza. It currently functions as an important transportation hub and I'm worried folks who take public transportation will be displaced by the current plans!
141	We need to keep Kennedy plaza in one place, and having better amenities and accessibility in the area is also great
143	To be honest, not much. The prospect of displacing and decentralizing a transit system that hundreds of not thousands of riders rely on for their livelihoods feels morally inept. This proposed plan is shortsighted, to say the least. Especially in the context of a climate crisis and environmental injustice, we should be making it easier and more sustainable to access good paying jobs not less so.
144	There is intentional focus on pedestrian access and experience.

ResponseID	Response
146	This all sounds great on the surface. I love parks, trees, ice skating, Waterfire, and events like PVDFest. The proposal looks like it will create a beautiful space. However, I'm very concerned what will become of the transit infrastructure and the people who use transit. The proposal to move the RIPTA hubs to four separate spots would take students, homeless people, and many BIPOC folks who need transit. It would take the overpolicing and police violence to the outskirts. I do not see this downtown park as a place where homeless people and BIPOC would feel welcome, feel that the park is for them. It feels like it's for tourists. Without strong investment in the existing residents who need it most, I cannot support this downtown park idea.
148	Facilities helpful for all, such as public toilets, and planning for future sea level rise. Tree planting.
149	I like the idea of investing back into the city and community.
152	It's not a good idea to dissolve Kennedy plaza
154	I can't be excited because this proposal does harm to a transportation system that badly needs help, and people who depend on this area for reliable and accessible transportation.
155	Nothing! The cost is too great, the construction will create more traffic in the area and in the end, it'll be used by the homeless.
156	Greater amenities for people using the spaces (bathrooms, services for homeless, information, heating). More trees to cool the space. Raised and accessible walkways along the river. Splash fountains.
157	Gathering places. The water features.
158	This is so stupid. It's such a waste of money and resources. Downtown is fine, use the money for affordable housing and resources for people in need. No one is going to use a splash park DOWNTOWN!
159	Defunding of Kennedy plaza will hurt so many underpaid, (yet essential) it also led promotes using more gas powered cars. Kennedy plaza should be renovated to help make it better, not destroyed.
160	Cleaning up Kennedy Plaza and making it a more inclusive and inviting space. Better public transportation. Better parking options.
162	Creating a unified space between KP and Waterplace Park, especially if the elevated path doesn't feel like you're walking through a parking lot. Creating an inviting space at the center of the city that isn't dominated by one group or activity. More public space. Better connections for bikes and pedestrians coming from Smith Hill to downtown.

ResponseID	Response
163	There needs to be a singular comprehensive bus hub, and a heated staffed 24/7 restroom available as well. Any other plans are detrimental and just down right rude to average and dare say "below average" residents of the city. It's a waste of funds to bring about decadence when people need basic help.
164	This project does not factor in how it will disenfranchise disabled and low income people and people of color including Black people. "Friendlier" seems like a coded term for "exterminating 'deplorables'" - which is a level of class ware fare that PVD does NOT need right now.
165	Nothing excites me about this proposal, it is a waste of money that could be used to make actual improvements to infrastructure and transportation instead of making it more difficult for POC, elderly, and disabled to take the bus.
166	Not much
169	Nothing. It is an insult to the existing city, almost as bad as the 1970 plan for Downtown.
170	This will help foster community that is needed after the effects of the pandemic
172	Nothing. It is a waste of money. People are not going downtown with their kids for a splash park and will just be for bathing/ bathroom for people that need help. Use the funds to expand neighborhood park slash sites and more housing for the homeless.
174	I think it is a disgusting and terrible idea to break up Kennedy Plaza and complicate commutes for low-income and environmentally conscious citizens in order to make downtown real estate more valuable for city elites.
176	None of it.
181	Absolutely nothing. Things need to stay the same & upgrade the busses. Its going to be too confusing & upsetting to the elderly/disabled/handicapped people who rely on the ripta busses to get around Not only for shopping, but to be able to get to dr appointments or visit friends/family.
182	Purposeful design that facilitates movement Better access Eliminates the bus stop dead zone Very happy also that the basin will be updated along with Kennedy plaza

ResponseID	Response
183	I love biking around Providence, it's one of my favorite pastimes to do with my dad or friends. I usually only get to explore the Blackstone and College Hill area freely because they're safer and my parents are comfortable with the area. The current Kennedy Plaza area is known for being a little unsafe, and the new changes will hopefully make it a place I can explore safely and freely as a young kid in Providence.
184	Pedestrian zones = more homeless and vagrants and drunks hanging around. They already make the lower end of the Providence River (below Crawford Street) an unsafe area. This "new" kennedy Plaza will invite more. Raising the walkways in Waterplace Park = less or no interaction with the river. Misting fountain = I get wet from the spray, so why will I want to go there to get wet? Splash Park = that has the same public health issues as public swimming pools - how many of those are there?
185	I visited your site and it crashed my browser (latest version of MS Edge). Your videos there are set up wrong.
187	Moving the ice skating rink to allow use for other activities and using the new rink for splash activities as well as skating and bumper cars in the winter months.
188	imaginative!
190	The idea is nice for the Kennedy plaza portion of the design but I think it's going to be hard to get that many people gathering and using the space. Most people do not live downtown and won't travel just to use this area for recreation unless there's a big event. Also, where are the people who currently frequent the plaza going to be displaced to instead?
194	I like everything about it.
195	I think this is an ambitious project and I like the forward thinking of timelines that address climate change impacts.
198	It does not excite me. I want Kennedy Plaza to remain a central bus hub. It does look beautiful but I wonder who this is really serving? I don't think it's serving people who have me unmet needs. I think it's serving people like Joseph Paolino who owned property and want to see the property values go up.
200	The idea of separating traffic from family spaces, I really love the water park transformation, like the lighting and the inclusivity behind the transformation. Like the River improvement and connection.
202	Ambitious plan. The open plaza will offer opportunities for large events that are impossible to hold today. The plan to raise walkway levels in Waterside Park will provide resiliency with impending climate change.

ResponseID	Response
205	I am excited for the access to the river and the connection via bridge instead of tunnel to get towards the Cove.
208	I do like the transformation of Kennedy Plaza, but I am concerned that the bathrooms and homeless shelter areas are going to be a chronic issue. Will there be bathroom attendants 24/7? Also, the Riverwalk proposal is a disaster, and needs some serious tweaking. That mist ring is ridiculous and not practical to the boat businesses that exist.
209	Total waste of moneyThrew transit under the busMist ring??? RidiculousSize of new KP is waste of space, can't afford to maintain it or fill itWhite metal link fencing is ugly & tastelessOnly valuable outcome is raising river walk. Another redesign of KP after how many others to give Mayor a box to check to run for GovAnother boondoggleGet serious!!
212	Activating the space with art and family friendly programming.
214	Nothing, leave kennedy plaza as it is
217	Excited about better connecting downtown's public spaces! They have always felt disjointed and I'm glad they will be more unified.
219	Overall, the presentation showed a very well thought out proposal for downtown. Moving the ice rink feature to its proposed location is genius, as well as moving the busses to the exterior of the space. A better connection was definitely needed from Kennedy Plaza to Waterpalce Park and I think the bridge accomplishes that. The renovations to waterplace itself look exciting. My only question was how to create a safe connection from that new bridge, across Memorial Boulevard. Otherwise, awesome stuff.
220	Thinking about the future/Climate Change in raising the river walk. Supporting waterfire. Making downtown more friendly for kids & families.
222	All of it but especially the Kennedy Plaza changes
224	- better connection between Kennedy Plaza/Burnside park and Waterplace Park - the new summer water feature / winter skating rink - shaded concert/performance area
227	Exciting news. I wish it included a music pavilion- missed opportunity!
231	I love the activation of the public spaces, particularly the pedestrianization of Washington Street. I also think the fog feature in the basin is really cool.
236	Greenspace/entertainment space and access to it! PVD is a biking city, I love removing Washington and making it more pedestrian/cycler friendly.

ResponseID	Response
240	I like that you're taking a holistic, integrated approach to Kennedy Plaza AND Waterplace/the riverwalk. Thinking in terms of connectivity is crucial.
242	Refreshed walkways on River walk.
243	Raising and expanding the Riverwalks for more accessibility and resiliency!! Providing consistent lighting and more connections between Waterplace Basin and Burnside Park.
244	We need more bold design in that area. The current KP is already an improvement over several years ago, but it's not *inviting*. This looks like it can finally make it inviting.
249	Love how inclusive it all is! Green space! Yay!
252	More trees and more playspace for kids
258	WelOl-conceived, unusual, multi-cultural, fun events and places that bring us together as Providence residents and cross neighborhood, ZIP codes, ethnic, and cultural barriers and boundaries!
260	Potential reuse of Superman Bldg and of Crooked Bridge. Also hope that the awful Fain bldg can be blocked. I know these are not all downtown.
261	I am excited that our premier public spaces downtown are being thought of holistically. I'm excited that the connection between them will be improved and that the connection from the City-at large will be made stronger to get to it. I like that while discussing improvements to these areas that we're future-proofing for sea-level rise. I do not like the idea of creating multiple transit hubs. I think the level of the considerations being made to our premier public spaces NEEDS to be made for our public transportation system and its users.
262	As an older gentleman in my 60s I moved to Providence to embrace a walking community where my wife and I can explore the city and give back to the city. Having public places to unite with a diverse population is important for the culture of a city. I have traveled to many cities and lived in a few areas of the USA and I am excited about the prospects of a community-minded Providence.
263	I like the redevelopment and activation of Kennedy Plaza. The basin mist ring and elevated platform are not good ideas.
264	I'd love to see our beautiful city thriving again!
265	Unified and coordinated pedestrian spaces.

ResponseID	Response
269	The third option because it's more likely to bring folks TO downtown that either don't come there and/or wouldn't otherwise. That's extremely important to ensuring vibrancy and economic growth over the long-term.
270	Closing a section of Washington Street and moving buses to south side of train station
274	Moving the buses Park design Unifying the spaces Improvements to the River walk Seeing that the homeless are sheltered
278	Ideas of successful projects in other cities have been included in the proposal.
283	Shade and pedestrian improvements
285	Overall great idea to increase square footage of public space in downtown PVD, I like that it can be activated all year round and for all ages, I like that you are thinking about climate change/and raising the riverwalk, also I like that the river walk is getting attention as another important asset of the City
287	I'm a big fan! It reminds me a little of Philadelphia's center city.
288	In the 25 years, I have lived in Providence, Kennedy Plaza has been redesigned at least 4 times. That is a waste of public money and this new plan does not work off of what is there. Public money should be used otherwise for more important things. The design was not pleasing and had not sensitivity to the historic elements of Kennedy Plaza. It also did not address the multi-bus hub opposition which the people are opposed to. I am not excited about this project. I have heard a lot of disappointment from people across the city who are not in favor of this project.
293	- modernizing the riverwalks - connecting Kennedy Plaza to the basin - closing streets and reclaiming as public space - adding nature (trees, grass, plants) to downtown
295	Not much. The idea of more trees and public areas to walk and relax are nice. But there are other spaces in this city that could use this.
300	More open spaces. Dynamic
303	The bridge and the misting ring in Waterplace Park
305	Giving more space to people, reducing vehicles and combustion engines that are loud, polluting, and dangerous and break up the space
306	The riverwalk looks a lot nicer with the addition of plants

ResponseID	Response
307	The River Walk
310	I think the stretch of Washington Street should definitely be closed and I think the amphitheater around Waterplace is in desperate need of a renovation
315	I like the renovated walkways and increased public space.
318	Nothing excites me. It will be less efficient for those who use buses. Splash park is stupid.
322	More public space
327	not much, it looks like a derivative theme park. take a 'Design' approach - define the problem before you try to solve 'it'plan looks like it is in search of an idea that keeps eluding
329	I think we should put the time, money and energy into any other part of of the city before returning to these areas. Many other parts of the city could use beautification and to be made safer and easier to use on foot or by bike.
330	I like all the pedestrian features. The various water features seem like a waste money and expensive to maintain.
331	Late night outdoor music
335	Moving the bus depot
337	I love the connected square, it provides a much large space for family and community. The buses use to make it harder to walk to the train now I think the square will be much more integrated.
339	I think waterplace park and the Riverwalk are beautiful as they are! I love walking there in a quiet mood. I think it would be a shame to mess with all that. Instead of spending millions raising walkways, why not spend it on providing greater security presence to keep these spaces safe in the first place If sea level is rising, why not spend \$\$\$ go beef up the Fox point hurricane barrier, rather than raising walkways along waterplace park and the Riverwalk? Doesn't the hurricane barrier protect all of downtown? Thank you!!!
341	I like the potential of the water space and removing the bus lane between the current park and plaza. However, I think the water space will need a more unique and compelling feature than shown so far. Something as dramatic as the fountain and splash space ub Millenial Park in Chicago.
342	More attention to the area, economic impacts.

ResponseID	Response
343	- I like uniting the three different parks into one space Making the downtown area more appealing - the inclusiveness approach especially considering people experiencing homelessness
349	I'm looking forward to the downsizing of busses with more green space and less asphalt
356	The expanded park area at Kennedy Plaza, the walkways connecting to the Waterplace Basin, and the native plantings around the Riverwalk.
357	The chance to tackle the need for social services and address access and equity for all Providence's residents. To use this opportunity to bring economic development to residents and help everyone equitably enjoy the city. I am also very excited for the chance to build a greener, sustainable, efficient city center that brings joy to people no matter their ability or background
359	The ability to provide healthcare for the people who use Kennedy plaza daily
361	I like the rethinking of Kennedy Plaza. I think that the large plaza with nothing on it will never attract any activity, so creating a fountain & ice skating rink sounds like a good way to transform that space. I like removing the lane on Washington because it gives it an opportunity to feel like one big park. I think that the bridge to Waterplace Park is more user friendly than the tunnel, which has its obvious problems.
362	further opening up Downtown to cultural events, seamless public transit hub, and increased and connective walking and biking paths.
364	Please do NOT move the buses out of Kennedy Plaza. I ride RIPTA often, and I go to and through Kennedy Plaza to get to work, shopping, errands, etc. Moving the buses out of Kennedy Plaza will make people's transfers more difficult. I love Kennedy Plaza how it is - one central transit hub!!
365	The entire project is about rebuilding, reinventing, and rebranding Downtown PVD to be the epicenter of the City and creating dynamic public spaces that attract not just residents but those who wish to visit our city as well. That is what excites me about this project.
375	You are elemenating the human element from downtown the transit oriented public. Demand development is city property that is getting city subsidies that encourages decay and lines the pockets of the property owners with the publics money.

ResponseID Response 376 Honestly I think this plan is completely misguided. I love making public use of the space and pedestrian safety is very important to me. However, closing off much of the bus hub does not help pedestrians. It dramatically limits access for public transit users--who are also pedestrians and who often overlap with each other--and makes us walk even further. I love the current bus hub as it is. It helps me get places quickly and now keeps me dry while I wait. I also love catching music and other events in Burnside Park. A dream would be to have 24/7 accessible restrooms so that I can have a beer at these events and further contribute to Pvd's economy. 'Friendly for transit' in your video is a lie, all of this is misguided except for the bathrooms/new welcome center, and it's honestly more than a bit racist and classist too -'reclaiming' from whom?? 379 Nothing really. You've ruined a major bus hub just to build stuff for tourists. Actual residents and commuters will now have to add lots of extra transfers to their commute as Kennedy plaza will no longer exist. 381 Only the improvements to the riverwalk. 385 literally sets the stage for outdoor performances/activities, positive events/programming 386 I think it's a great effort to make that area of downtown (and downtown as a whole) more of an exciting destination. While currently, the park and architecture are beautiful, there needs to be more to attract residents and visitors. I think this plan does a good job with that. 390 More inviting areas for people to gather and walk around, moving the bus stops out of the center, a stage, bathrooms, and easier pedestrian transit between downtown and the east side. 395 The river walk project looks phenomenal, having more bikeable spaces would be amazing 400 The free space, interactive water area, and amenities for people in need. I take my 11 month old to the park by the skating rink almost every day. It is such a nice walk; however, I feel so unsafe sometimes because of some of the characters that hang around. There is always trash piling up in the park as well. This area has so much potential and it is so unfortunate to see people sleeping on benches with all their belongings and trash in the surrounding areas of the park.

I do not support adding water features to the basin of waterplace - or to the center of the PLAZA.... this will require extensive maintenance that the CITY will NOT fund or continue.. Remove water feature from the plan I do support combining social service outlets with entertainment spaces.... relocate social service outlets to CROSSROADS area. Where are the remainder of the BUS STOPS?

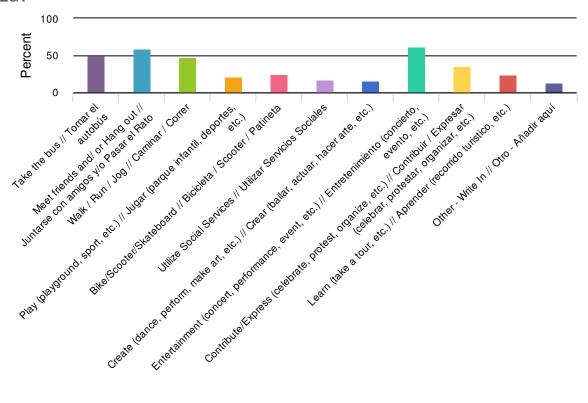
ResponseID	Response
404	The potential for greater comfort and public services downtown. The possibility of a more aesthetic and welcoming space that creates ubiety in Kennedy Plaza. (I have some major concerns about the design presented at the second community meeting, and hope this survey asks about concerns as well.)
408	Creating a safer Kennedy Plaza with modern facilities.
411	The skating/splash park and the access to waterplace park
415	The fact that it will be inclusive and NOT exclusive as the I don't like the way Providence is being transformed into a 2nd Boston. Providence needs to remain a true creative capital and not boring and stale like Boston
417	Cleaning up Kennedy Plaza and Burnside & Biltmore parks and making it a safe and attractive area without drugs or homeless.
419	I like getting rid of Washington St. and East Approach
424	Ice rink turned water park feature.
425	The skating rink turned water park.
427	skating rink and variety of users; unsure how bus traffic is going to be re- routed
429	The "free expression" and/or skate areas would be better being a traditional playgroundskateboarding belongs in a dedicated skate park w/safety protocols in place.
431	i'm looking forward to It honestly and what it can change for the public
432	the unique ideas
433	I thought it was really nice and how they want better for the community
434	I think it would be a better/safer place
435	What excites me the most is how much they want the youth to be more involved in everything. I love how they want the youth to have more say in what happens to the community and be more creative.
436	Downtown is nice but now they are planning to add more things to the community is really great. Hopefully our community takes care of the area.
437	The way it looks

we get to have new things in providence

ResponseID Response

440	I'm excited for all that is going to be a big change in our community and is for the better so I love that
442	i like the idea
445	The free space and food and beverages. People could actually be in KP and chill and have fun.
451	Im excited about renovation and creating safe spaces for artists.
452	The RiverWalk space being redone is very exciting!
454	everything! Especially to help with homelessness! Trying to make everything modern is really amazing.
455	The fact that they're going to add attractions to these areas. Many more people will go here if this project happens.

6. How would you use the proposed space of Greater Kennedy Plaza, including the Big Shade, the Free Space, the Ice Skating Rink and Splash Park, the Welcome Center, the Riverwalk, and the Waterplace Basin? ¿Cómo usaría los espacios propuesto de Greater Kennedy Plaza?



Value	Percent	Responses
Take the bus // Tomar el autobús	50.5%	110
Meet friends and/ or Hang out // Juntarse con amigos y/o Pasar el Rato	58.7%	128
Walk / Run / Jog // Caminar / Correr	46.8%	102
Play (playground, sport, etc.) // Jugar (parque infantil, deportes, etc.)	20.6%	45
Bike/Scooter/Skateboard // Bicicleta / Scooter / Patineta	25.2%	55
Utilize Social Services // Utilizar Servicios Sociales	16.5%	36
Create (dance, perform, make art, etc.) // Crear (bailar, actuar, hacer arte, etc.)	15.6%	34
Entertainment (concert, performance, event, etc.) // Entretenimiento (concierto, evento, etc.)	61.5%	134
Contribute/Express (celebrate, protest, organize, etc.) // Contribuir / Expresar (celebrar, protestar, organizar, etc.)	35.8%	78
Learn (take a tour, etc.) // Aprender (recorrido turistico, etc.)	23.4%	51
Other - Write In // Otro - Añadir aquí	13.3%	29
Other - Write In // Otro - Añadir aquí	3.2%	7

7. What improvements to the proposal would you suggest to the design team? ¿Qué mejoras a la propuesta sugeriría al equipo de diseño?



ResponseID	Response
15	To make sure that the buses are easily accessible to the public. Also include improvements for the Mossashuck River.
16	I am worried about the at grade crossing of Memorial Boulevard. Would there be a red light or would pedestrians be unprotected?
17	See note regarding railings on Miro board. Also, the bus access seems very far apart and how do people get from place to place. Solar panel charged outlets in the free-space needed. That way people can sit/work there and performances will be easily accommodated.
19	Less touristy and more for the locals (I'm more concerned about accessing transportation than activities)
28	Consider a Skywheel, similar to the ones in San Francisco, and Niagara Falls. This would be a HUGE draw
30	Doggie area for the pets
31	Dream big and make this city even better
35	Reject RIDOTs plan. I know you folks have your hands tied and are doing the best you can, but you're really shooting yourselves/the City in the feet by going along with the plan. I've been enquiring and "engaging" with the State and City since last July to try to get someone to explain how the plan makes sense and nobody has been able to. I think the plan is terrible, but I might have missed something or might not be considering something, and would

ResponseID

Resitofisemebody who supports the plan could make a well-reasoned, fact-based argument for why RIDOT's plan moves us in the right direction. Even though I'd likely disagree, it would satisfy me to know that there is one ounce of sound reasoning at work on their side. After literally months of nothing but occasional claims of economic growth which fall apart under the slightest scrutiny, I'm left pretty cynical about this whole thing. Obviously, there's a bunch of dirty politics involved that's out of the Design Team's control, but as it stands the current proposal, which has many things I like a lot, is worse than what we have now because of it. Here's why: 1. Efficient transit operations. I'm no expert (although I don't trust RIDOT's experts much at this point), but nice bus waiting areas do little to improve efficiency. You need to move lots of people in and out via transit every day, and this plan is clearly not optimized for that. To the Mayor's point about great public places in other cities, many of those places are great because they have such good, efficient transit connections! It's not an either-or! 2. "Designed for them": the Mayor and others presenting last night made a big deal about residents of Providence should feel like this is designed for them. Yes, they should! So, when a large number of Providentians rely on the bus (a group that tends to be poorer and less-white than the City average), they should be given first-class treatment. RIDOT's plan, which you seem to be accepting, proposes moving a quarter to a third of buses out of the Plaza. Sure, it's only a few blocks in one direction or the other. But it's unneeded. It presents challenges to those with mobility-impairments who rely on the bus, where those extra blocks represent a physical challenge. Further, it represents a psychological barrier. "My bus used to take me to the center of things. Now, they built some nice new stuff there, but my bus stops short." If you want people to feel like it's for them, do more than make it accessible by bus, make it an automatic, passive experience of taking the bus. It would be one thing if there was physically no space to fit buses, but there is. Sure, we might have to reconfigure things and reclassify the Plaza from a terminal to a common transfer (so no layovers), but it's doable. Instead, you mentioned a few times that there would be parking and ride share drop offs, and you would be trying to attract tourists and suburbanites. If you have space to do that, but not to accommodate the buses, that signals a decision based on values, not technical considerations. 3. It doesn't account for growth of transit. The City has, in the past, expressed a desire to see transit use grow in Providence and in Rhode Island more broadly. Seeing as transit is just barely squeezed into your latest designs, I can't see how the space could possibly deal with increased services that RIPTA is proposing under the Transit Master Plan. Perhaps the idea is to have this growth occur at other hubs that have more growth potential. If so, this just gets back to the point of building this wonderful thing for people to enjoy and use, and then making it harder to get to. I'm glad that your team gets the importance of good transit to cities, but your plan doesn't reflect that. It turns away from buses and riders, and despite the good intentions, shuns them. Of course, I don't believe that you folks are actually pushing for this (the quality of your other work suggests that you "get it"), and frankly I'd like to see what you would come up with if the project scope were increased so you could work with Downtown holistically, including working with RIPTA to meaningfully improve transit rather being given marching orders from the DOT. I don't know what you can do within the terms of your contract to fix this, other than forcefully pushing back on the Mayor and folks at the State, telling them that they're making a terrible mistake. etc. If it helps. tell the Mayor that he

nave missed something, or might not be considering something, and would

ResponseID	plan now and promises to install new leadership at that agency. Here are a few other suggestions to improve the plan: - Make sure to maintain enough neutral space, that doesn't have an assigned purpose. The programming is great, but every great city square should be fiercely public in every sense of the word. In my overly-romanticized view, there must be a true neutral space where citizens can gaze up at City Hall, contemplate the nature of democracy and small-L liberal society, and be free to stand, sit, speak, and just purely exist The skating rink seems big. Is there enough demand for it? - Incorporate downtown affordable housing in the plan, if possible. Having a diverse and multi-generational group of residents to steward the space will do more for keeping it safe and lively than any amount of programming or design ever can.
37	Large urban spaces need to be delineated so you have a sense of "here" and "there." This plan appears to melt all of the spaces together with very little definition, and it's unclear how a unified space this large would be used by the population of Providence. What budget is there for programming if we'll need to spend \$140 million on construction? Where is the space for local businesses (food trucks, farmer's market, etc)? How does this reflect the culture of Providence? How does this space engage the buildings around the plaza? How will commuting bicyclists move through? Also, the design of the "big shade" needs to be refined to better reflect Providencelooks very generic and un-civic.
38	Including space for local vendors that can be rented by the day.
39	You need to explain where all the buses are going. If people from the outskirts don't have public transportation to the area, how do they get there to enjoy the space, especially during the cold months.
42	Get rid of the rogue motorcycles.
43	maybe a visitor center for tourism?
46	The bridge is cool, but then we still have to cross Memorial Blvd, which is never pleasant. Having the tunnel be safer would be great.
47	A bigger show of The Big Shade and social services provided there needs to be better articulated/envisioned. Why is this a place people will use for outreach and harm-reduction?
50	Improvement on the walkways
52	Free public transportation
56	I would include cultural items such as museums, galleries, coffee shops, cafe with outdoor seating carousal. And a large grassy area with trees that would promote just relaxing such as people do in Central Park.

ResponseID	Response
58	It wasn't clear about the connection to water place park but maybe I need attend the next meeting to understand that better.
62	Not a mist ring that is literally the dumbest thing ever
65	Any design should include a centralized bus hub in Kennedy Plaza
68	Fewer non-functional installations on such a BIG scale (water features??!) and more subdued, manageable improvements (beautifully constructed and clean and open pedestrian spaces can go a long way!). Think the most walkable cities in Europe and how they combine open spaces and easy public transportation (Geneva is a good example, Paris, etc)
71	Stop trying to put lipstick on a pig. I love PVD, but there's basic infrastructure needs to be addressed. Sidewalks still not ADA accessible, garbage everywhere, poorly maintained landscapes, etc. The very idea of putting a water park downtown is positively ludicrous.
72	Not me Kennedy Plaza essentially a water park why not simply turn it into a green space?
75	I would limit the size of the splash parks - if that plan moves forward. The space at the center of our city is so valuable and feels wasted on something that people want in their residential urban neighborhoods. This is something placed in an alcove, not the center stage of a major city. I'd like to see more save activation in regards to cafes and public park space that is safe. Unfortunately, at the moment, I avoid walking Kennedy plaza because of the types of individuals that are commonly found there. I would like to see more connection from the providence place 903, promenade, woony and federal hill to the downtown area. I think this is a missing and frankly abandoned link the city has long neglected. As one of the only complex in the city with its own dedicated garage, residents in the 903 and promenade/foundry must go through the sketchy underpass of the mall to get to the downtown basin. I wish that would be considered in the next phase of planning
76	Bus passengers are being pushed out of Kennedy Plaza to make way for a theme park geared for children, teenagers, families, and those upscale individuals who are "young at heart,". This is discriminatory. Keep the bus hub as a principal feature of the area, with the berths close enough to one another that people don't miss their transfers.
77	Don't remove the bus berths
78	Simplify simplify and don't chase away the buses.
80	If we need to raise the Riverwalk seven feet to avoid flooding, what will happen to the rest of Providence when the river floods

ResponseID	Response
82	Add retail and commercial space - think a smaller Faniul Hall in Boston
84	1,) Fix the survey, Other-Write In doesn't work. 2.) Get rid of Elorza 3.) More Police/Less Gangs
85	Leave the buses in, in order that people can transfer from one line to another without having to climb on to and get off from buses more than once.
86	More places for buses even if something else has to be a little smaller
88	Stop trying to force the disabled, elderly, persons of color, and impoverished out of Kennedy Plaza! Seriously this whole plan screams waste of time, waste of resources, and more importantly WASTE OF VALUABLE MONIES THAT COULD BE PUT TO MUCH USE!
90	I don't understand the Mist concept.
91	Keep all the buses in KP
95	Prioritize public transportation
99	I really think closing Washington Street is a massive overweening urban design mistake akin to I.M. Pei's closing of Westminster at the RC Cathedral, which continues to screw up the City to this day. Better to keep the Soldiers' & Sailors' Monument where it is and leave Washington open to vehicular (AND bicycle - I take it ALL the time both on my bike and in my car - it's essential) traffic, but eliminating all the bus garbage that makes it confusing/messy. I'm also not thrilled with the design triviality of the play/skateboardy space where the crummyish old rink is currentlythat's a formal axis to the handsome old Train Station and could be set up as formal hardscape strengthening that axis and connection and still useful for things like summer urban markets, political gatherings, etc. (it's on a radial axis to the State House via WaterPlace, etcgreat place to start or end a major march). Move the playspace for teens to the really underused/peripheral Biltmore Park.
100	keep all the buses coming to KP and the terminal building for bus info etc - though I have a car I'm not going to drive to downtown as its too congested with traffic and hard to park, - if they downgrade the buses I won't come at all except in very unusual cases
103	Leave the busses where they are. Don't displace other events such as summer music events, food trucks, PVD Fest etc in order to put in a giant fountain.
105	Start over dealing with the realities of the city.

107	Follow the previous proposal more closely.
108	Do not disrupt the central bus hub for all of Rhode Island. Spend less money on frivolous improvements that don't really add any value to Kennedy (moving/expanding an already existent ice rink, creating an overpass instead of simply improving the already existing underpass, building a skate park when there current ice rink area already has this in the summer, etc.).
110	Be realistic, and build on what actually works right now, rather than on pipe dreams or how you would like people to use the city.
111	None of this idea will bring people to Kennedy Plaza and the surrounding area. The only good idea I see in this plan is raising the river walk ways to plan for sea rising. The mist ring is stupid. The idea of connecting the Kennedy Plaza, Burnside park are to Waterplace is great, however your execution of it is horrible. You want pedestrians to use a elevated walkway that then dumps them into a crosswalk across busy and dangerous Memorial Blvd? A bridge over, or tunnel under Memorial Blvd is needed. That way pedestrians are safe and traffic flow does not have to stop. You should consider moving the bus terminal to the parking lots next to the Citizens building. It would be closer to the train station and that way Kennedy Plaza could be reclaimed as an area for citizens to gather.
113	Where you going to bus the kids in from for the splash Park?
114	Leave skating rink where it is and build around it. Have a bus system where you don't have distance between busses and close to train station. What about land across from mall?
115	I am vehomently against breaking up the bus hub. We should be making public transportation more convenient, not less.
116	I would NEVER use it. It's DUMB
118	The mist ring is a horrible idea, as is the "water park". If this is supposed to be good for all of Providence, it needs to account for people on the South Side and Olyneyville. They will not be taking the whole family downtown for a water park. This needs to be a better center for the ENTIRE city and it's population.

ResponseID	Response
119	Throughout its history, Kennedy Plaza has functioned as a transportation hub. This proposal inherits RIDOT's deeply flawed plan to break up the bus hub and move it to other parts of the city. I believe this proposal will take the city backwards. The city and RIDOT should be starting from the goal of making RIPTA service efficient and equitable, and something all Rhode Islanders want to use and take pride in. This proposal started with the goal of how to make Kennedy Plaza usable once buses were removed, which is exactly backwards. Undermining the state's bus system in the interest of improving a small park in front of some expensive real estate is a cynical move at best. Please don't collude with RIDOT to destroy our bus system. The best way forward is to scrap the flawed Kennedy Plaza plan and work with RIPTA to come up with a plan that puts bus service first, not last.
121	To not do this and focus on actually helping the city. A splashy reinvention of downtown is a waste of money.
122	Not do this at all and leave it alone because public transport is more important than putting in this monstrosity
123	There is no need for a splash pool or playground in that area. Art fairs and or concert venue would be better use
126	I suggest you focus your energy on dismantling KP on something that will benefit the people who rely on that space.
127	The removal of Kennedy Plaza as it stands today would be detrimental to all of those that utilize the area for transportation needs.
128	More affordable public transportation resources.
131	Plant a lot of trees and incorporate some solar shade. Make it a carry in carry out space to encourage people not to make garbage. Maybe put the bus terminals underground. Tbh, I havent read your whole proposal, as I'm just doing this for a friend.
134	Please don't pretend that the ridiculously small number of bus stops proposed in this plan are adequate, or even close to it. If you can modify this plan to significantly increase the bus stops, I would like to see what you come up with.
136	There should be more accessible bus routes through Kennedy Plaza. We need to be investing in expanding public transportation.
138	Leave the bus hub intact! It hardly makes sense as it is, which is much more comprehensive l, inclusive, and straightforward than what is being proposed.

ResponseID Response 139 Scrap it and start over. Keep the transit as is... why does that need to be changed? Put more trees on Kennedy Plaza. Create a space like Bryant Park's game and food spaces. Too expensive. I love fountains but it is unlikely the City will maintain the water features. The mist ring ruins the use of the Basin for WaterFire's opening. Did Barnaby sign off on that? 140 Maintain the integrity of current public transit access 143 The bus terminal doesn't need to go in order to make this space more accessible and beautiful! There are so many other spaces, not utilized by mostly BIPOC and low income individuals, that offer opportunities for development. Please, please reconsider. 144 The centralized public transportation hub should be retained to allow for easier transfers, especially at night, in poor weather, and in the winter. This is the only highly connected hub with statewide access in the state. 146 Include a more robust plan for accommodations for BIPOC, homeless people, and people who ride the bus. One RIPTA hub is the best solution for transit riders. Make there be one RIPTA hub in downtown. Include it as part of the park if you have to. Build housing for homeless people next to the park where these "social services" will be. Allow homeless people to use the park and not be over policed. Defund the police so that young BIPOC folks can feel safe enjoying the park. Invest in those "social services" instead. Center racial equity and LGBT QIA safety by making the park safe for them to use. Have a team of BIPOC and LGBT QIA community members central to the creation. Compensate those people for their input. Listen to their input. Act on their input. If this downtown park is not overtly anti-racist, than it is racist. Center justice and equity going forward. 148 Do not relocate buses, leave all buses in current positions -- or find another single central site. (Since so much land has been sold for high income highrises, it might be difficult to do that.) 154 This proposal does harm to a transportation system that badly needs help, and people who depend on this area for reliable and accessible transportation. Improvements should be focused on the needs of the people

Improve current infrastructure, address the homeless/drug addiction in the

who currently utilize the plaza.

area

155

ResponseID	Response
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156	The traditional riverwalk decor is pretty nice in appearance, even though it is often stolen. The contemporary designs don't speak to this being in Providence. The sidewalk on Exchange (across from Union Station buildings) is already too narrow when that bus stop is being used. To expect there to be smooth transitions from a new bus stop in front of the post office, along that sidewalk, to the new bus stop in front of the Biltmore, doesn't take into account the narrowness of that sidewalk. Detroit has a great traffic island with three restaurants and a sandy play area. Seems like that kind of dense use makes it more festive, gives options and creates a place people want to be.
157	The timing of the mist feature seems really far off! 80 years??
158	Do better
159	More social gathering spades eap with the pandemic, it's nice to have w social distance hBg
162	Create a stronger connection between Waterplace and KP. Perhaps working with the new food hall project in Union station, unify the plaza near the underpass (where Luxe used to be) with the proposed elevated path.
163	24/7 staffed restroom, bus hub, petting zoo.
164	I would suggest heavily considering addressing that fragrant dismissal of vulnerable populations this current proposal hurts and diminishes. It's astounding that even with everything that's happened in the past year that PVD is willing to continue to shut out the less fortunate, focus on capitalism, and ignore steps towards true equity and reparations. Just wow.
165	I would suggest that you abandon this project and focus on using that money to make transportation free and help our lower income residents.
166	Create a place to have an easier location to TAKE THE BUS
169	Start over.
170	Benches that can be laid on
172	Have risd students design a functional space
174	Don't break up KP!

176	A better conceptual design to keep the area as a main hub for busses, completely revamp and expand the current center(ticket booth and bathrooms) into a larger welcome/rest area. Instead of a ring of mist and splash pad utilize the space to open an education centers discussing how to continually increase sustainable living. Infuse nature as well as urban planning as a way of using natural resources to help reduce costs and divert the funds to local causes. Also instead of continuing to see our homeless population being stepped over(quite literally and figuratively) how about setting up a walk in center in the ACTUAL heart of the downtown area offering social services and perhaps necessities ie. soap, toothpaste/toothbrush socks and such. Also how about we try to find a way to utilize the many vacant buildings and storefronts we already have before building another hotel or massive high-rise that will sit half empty. Instead of building up how about building out and utilizing some of our local talent because you do know we only have one of the top design schools in worldjust a thought!
181	Leave things the way it is. Don't dismantle it & ruin everything.
182	Permanent picnic tables (sorry if I didn't notice) Purposeful art in the park sites Wildflower garden Areas reserved for food trucks Plan for limited food truck licenses Allowance for hand carts with food Beer garden/face in the park? Leased land with strict requirements SAFETY! visible presence of safety personnel and probably even a police station in the middle that is a focused police-on-bikes station only Area at one side that is in a different place than the bike police station that helps mounted police and gives horses a rest (but the two stations need to be in separate places)
183	One thing I'm kind of worried about is the loss of historical area by building over and replacing the old waterfire basin. I've grown up with the cobblestone and its a giant part of what I think of as the identity of the basin. I want to make sure that this new proposal still keeps that historic element, instead of just acting as a new replacement. It might still be in the plan but the renderings only show new and more modern structures, similar to whats being built near the waterfront. Just want to make sure the character of old Providence doesn't get lost.
184	Make the lower part of the Providence River (Crawford Street to the hurricane barrier) "feel safer" and be safer by discouraging homeless and drunks from there.
185	Get a better web site!!!!
186	The buses are an issue. No matter how you slice it and put a design to paper, having buses and not addressing the vagrancy that exists will undercut and simply diminish whatever plans are created.

187	Be sure there are a lot of benches, maybe using recycled plastic, for us "older folks" to sit on and relax. My husband is disabled and can do a little walking but needs to rest in between.
190	Please keep all the buses together. This is the main transit location for all bus connections and spreading out the bus stops will make it much harder for those who use public transit to get where they need to. Also the mist ring is stupid and will keep people away from the central basin. I know I wouldn't want to be sprayed but I do like walking through that area. It's not feature that most people will enjoy and looks very gimmicky and unnecessarily expensive to maintain.
195	I think looking at materials that will be removed and considering their use/reuse - donate to artists and/or arts organizations. In particular the green fence around the rink that was designed and fabricated by artists as part of the Our Town grant. I think it would sow seeds of ill will if it were just scrapped. Similarly, there is a lot of beautiful architectural detail in the tunnels by the river that will be covered - medallions, iron work, etc. I would love to see that in the hands of artists rather than just recycled or destroyed. I think the use of water features looks cool and is a nice narrative thread to tie the various areas together, but I am concerned about the practicality of vapor rings and water park like areas. I don't know that I would want to breathe vapor air downtown. It just seems a little gross. On a very pointed note, I am concerned that two of the areas identified for public art are in fact already programmed by the non profit I work for, under the department I manage. They are the two sites in Emmet Square where currently Mark Wholey's Follow Your Heart and Eric Camiel's Sail Dream are on view. Those sites have infrastructure we put in place and have been steadily programmed for several years.
198	Keep that Kennedy Plaza as a central bus hub.
200	Along the family space to add additional private garden space that allows those who'd like to wine down from all noise and activity to enjoy nature and a scared space for healing or just a space where they can be in-tune with self and nature and Garden walk through, rest space can be ideal.
202	Address and recreate the loss of the bus mass-transit hub that's woefully lacking from this plan.
203	public bathroom water fountains

205	Totally rethink Kennedy Plaza. You're tearing down everything for absolutely no gain. Why spend tens or hundreds of millions of dollars to create a "flexible" space that is so vague and diagrammatic that there will essentially be nothing to do there? It looks like a first year studio project. Be bold while also having a lighter touch. Keep all transit at KP - you treat transit like an "add on" when it should be driving the plan. You present the plan as though equity is the core component - by going along with the plan to decentralize connections from KP you are complicit in what will be one of the most inequitable actions the city has undertaken. You're dynamiting transit to add in some vague shapes and paving and undesirable and unusable spaces.
208	Riverwalk and basin proposals are way off. Speak to the people that use those waterways every single dayboat company, kayak company, gondolas. We know the river and Riverwalk better than anyone else.
209	Go look at all the previous plans, resolve transit to actually serve the riders, scale back the entire project & deal with important stuff like lighting, security, sea level rise & repair everything that is rotting away that was never maintained
217	I think the whole downtown area of the space should be wooded and green. The proposed amenities should all feel as though they exist in multipurpose green space as opposed to concrete with the occasional tree.
219	More information on how the bus traffic will change/ how the new Waterplace park enhancements will be used/ how often.
220	1. If you're going to move the bus hub from Kennedy Plaza that's fine, but please make a single hub somewhere else like the train station instead of breaking it all apart. 2. I think the mist feature will detract from waterfire and would not be worth the cost. 3. I think a splash pad as a water feature is fantastic but a wading pool will have too many problems (maintenance, animals, etc.) 4. a bridge to connect to the basin seems unnecessary, especially with the food hall going in on the first floor of Unions Station.
222	I don't think the mist ring installation is necessary or practical
223	I think it would be an excellent idea to include a water trash skimmer in the Waterfire Basin during this remodel. The Woonasquatucket brings runoff from lands far away, and it would be great to catch this refuse before it flows through the city and into the bay. DPW already manages one trash skimmer in the city and I think this could be a great site for a second one.

ResponseID	Response
224	Its not clear to me what this proposal means by "social services". I think it would be helpful to be more explicit on this particular point, because social services might signal different things to different people. For example, Mathewson Street Church distributes food at Kennedy Plaza on Sunday mornings. Could the "social service" area have a very basic kitchen available for food warming? Could basic needs vending machines be available in the "social service" area? NO donation parking meters, though - please! Also, is free WIFI built into this proposal? I think that this would be of great service to the community. Community boards for fliers might be a nice addition. There is poster-friendly culture in the City.
227	Music pavilion on the river
231	More details about project timeline and how construction will impact the usability of the space. For example: Will the buses be temporarily rerouted? Will the playground close?
236	More space for pop-ups, farmers market, artist pop up gallery. Celebrate the art of Providence by having space for small businesses and artist.
240	not clear to me how people would safely and efficiently cross Memorial Blvd.
242	Eliminate water features from Kennedy redesign. Does not belong in city center. Eliminate water mist ring from basin. In conflict with water fire exhibition
243	Don't sell out to RIDOT. Resist them and their misinformed, racist, classist plan to displace buses from this space. We can improve the space without shoving working class folks out of it. Please keep equity firmly centered in this.
244	1. What downtown most needs is people living there. Everything else will follow. People need grocery stores. Please make that sort of thing part of your plan: not just beautiful visuals. That's actually the more important part. 2. KP feels completely different in the summer and winter, because of the cold. I don't see anything in this that will actually ameliorate for the cold. Please explicitly include that in your design, otherwise for 5 months it'll *still* be a wasteland.
245	Get rid of the buses
249	Will you have rental bikes? Rental baby carriages? Places to picnic? Outdoor movie space? It'd be great to hire responsible young people to act as greeters/information hubs who can walk around and offer assistance. How about adding some Friend Benches which say, sit here if you'd like to meet someone new. Might get people talking to each other. Overall looks amazing.

ResponseID	Response		
252	A bigger playground - the current one is amazing and it would be great to have more play structures.		
255	If we're being honest I find the "free space" quite aesthetically unappealing. A wall like replacing the lovely steps that are there now is asking for graffiti and takes away from the more subtle architecture and color of the old station. Similarly, the "Big Shade" blocks the view of the District Court. Providence's historic architecture is one of its largest assets and this proposal should do more to complement it.		
258	None at the moment.		
260	Pedestrianize Westminster St! I know it's a long shot		
261	I love the idea of restoring the river to as much of a natural state as possible. I like how you're thinking out of the box with the mist ring. Keep idiate-ing and mixing the ideas of "make this one of a kind unique" with "lets restore this park to its natural state". I think taking that and bringing it to the park side of Kennedy could be cool, too. Pumped to see where this goes!		
262	keep in mind all age groups to build multi-generational experience for all Providence		
265	Everything hinges on pedestrian density. Must be supported by residential density (e.g., Superman Building) and permanent daily-use non-residential options: restaurants, bars, stores, entertainment venues. Beyond that, frequent (weekly) programming will be required to keep the place activated Otherwise it will quickly become just as barren as the basin on non-Waterfire days.		
269	Balance a little more between concrete/pedestrian concerns (transportation), and entertainment venues, outdoor walking spaces.		
270	Refresh Waterplace Park, clean graffiti		
274	Make the area feel safe and clean. Providing services and placements for the homeless, adding restaurants along the bordering streets		
278	Perhaps it is just the medium, but the artwork in the presentation sometimes gives the perception of some areas feeling somewhat sterile, and the pedestrian's relationship to the rivers feels more remote and less engaging.		
283	Don't wreck the bus hub. Don't make bus riders do more transfers. Keep buses in Kennedy Plaza. Put more parking nearby so people can get there by bus or car. Stop the panhandling downtown.		

ResponseID	Response	
285	1- make sure if you are breaking up the bus hub at KP that you are replacing it with another single hub - the multi-hub plan is not good for riders. 2 - Please remove the mister, it detracts from waterfire, which is so special for PVD and should remain the main attraction 3 - I don't believe the elevated walkway connection is necessary, we could improve existing infrastructure there for less \$	
287	As much art as possible, space for food trucks	
288	Work off of what is there now, do not recreate. Keep Kennedy Plaza as a bus hub UNLESS it move next to the train station. Respect the historic cultural landscape of Kennedy Plaza. Do not waste so much money on yet a fifth redesign of the Plaza.	
289	create better walkability to along the woon river up to the promenade apts	
293	- additional green space (for picnics, laying out) - some additional seating (benches, small tables, etc)	
295	The Kennedy Plaza bus terminal must be kept where it is! The mist ring does not sound pleasant at all.	
300	What about parking? Currently there is no where to park without paying fo meters. It's okay it's accessible by bike, but people get turned off by going there when they find they can't park there except by parking in a pay for us parking garage.	
303	I don't like the Splash Park	
305	Please get rid of the shading structure, plant more trees instead. The structure will be an eyesore, block a really nice view of the courthouse from the plaza, and will detract from rather than enhance the plaza. Also, while the water feature seems like a nice idea, I'd look at some case studies (like Chicago) to see how this has played out in other cold northern cities and whether the long-term maintenance burden of keeping it clean and maintained has been worth it in other places.	
306	The "free space" looks like such a bad idea. I also dont know why you would have people cross Memorial Blvd, which is such a busy street.	
310	Look at what Landworks Studio's Zelkova Public Realm in Taichung. This would be much better suited for the "free space" area.	
311	The whole "free space" as a way to attract teens so that they can break dance and beatbox feels patronizing and removed from any youth experience.	
318	Put in a few more trees. Improve the look of the place.	

ResponseID Response 322 Centralize all bus locations. Having to walk long distances for transfers between lines makes public transit inaccessible for community members with disabilities and less useful for all. 327 The so called skating rink was clearly not designed by a serious skater or one who skates for aerobic exercise. I'll never use it - that curlicue? inviting collisin an industry. Keep the 1/2 regulation rink...it's already enjoyed very much. it works. it doesn't need this trite 'improvement' 329 Please don't add the fountain/spray ring to the turning basin. The turning basin already shows the city's unique history and has a lovely view of the city skyline. Hiding it behind a fountain is a waste. 330 Everything about the transit system is inefficient. We need to utilize the area around the train station more to create a better hub and better options for transport throughout the city. Also, again - the water features are dumb. 331 More concert venues less restriction and later hours to do things. Not everyone wants to only be out during the day time 335 Pop up space for businesses 339 Closing the tunnel under Memorial Boulevard makes no sense. It's the easiest way to get from the skating rink to water place. I've never been scared in there, but if it's scary for some people, how about better lighting or better staffing by city workers to keep it safe? 341 I would hope to eat and drink in the downtown park,, too. I think that's included, but the food trucks need to stay. I also think that the southern riverwalk needs to reclaim space from Memorial Blvd which is incredibly wide and hostile to pedestrians. The added space could be used for green space, multi use trails or developable commercial Waterfront space. Think of San Antonio. The current riverwalk is too narrow and lacks any amenities other than a couple of high end restaurants. 342 I would advise them to not waste money on a new way to make life difficult for poor and disabled people, and instead use it to fix existing infrastructure.

Consider providing BIPOC and women owned businesses first dibs on space

343

ResponseID	Response
356	More natural, high-value plantings. There's a critical need to mend nature's broken fabric. Even in urban areas, wildlife plantings provide food and habitat for birds and insects and allow nature to come back into our lives. In the Exhibition, the Riverwalk is the only area where native plants are mentioned. Elsewhere, the plants seem decorative. (I apologize if this isn't accurate, but I've only seen the Exhibition.) I'd love to learn more about the role that plants play in your designs. The city recently announced a commitment to end the use of pesticides. Planning our public spaces to include nature would be the next logical step.
357	to reuse more materials and have a space to grow food. Maybe Southside Community Land Trust or Quaintly Farm (black women owned) would be interested in managing raised beds. The current bus shelters should be donated to local agriculture groups to use for greenhouses. They also could be integrated in a cool way to sheltered seating at the concert venue, and could be a way for the city to make income by having families book the spaces for summer concerts. I think you should also reuse the seating structure which matches the current KP building, as many of the regulars to KP have an association with that structure and it has been part of their lives for a long time. a stress relief garden with aromatic herbs that is wheelchair friendly would be good to have so that those with certain conditions can find a peaceful spot in the busy city center. It also would allow the blind to interact with the green space and engage physically with the space.
359	There need to be clean, safe, public restrooms. There also needs to be a hypodermic needle disposal. I found on on the street there the other day right outside City Hall.
361	The entire Waterplace Park concept is really horrid. I'm sure at this point you guys have probably already scrapped the much maligned "mist ring" but if you have not already, please do so. It would be an eyesore most of the year and it just isn't even a little bit cool. I don't think you should raise the walkways at Waterplace Park at this time. IT would be a huge and costly construction project that would keep Providence residents from enjoying the park for a long time and when complete, you would be so high above the water that I can't imagine it would have any of the same charm of the current walkways along the river. Maybe that would be a great project very far down the line, but it seems premature and ill advised. Waterplace park is already beautiful - it just needs good maintenance and landscaping. The ONLY problem with Waterplace Park is that there's almost nothing to do there. If you could bring in concerts and food vendors and events, then people would have a reason to use the park and it would instantly become a nicer place to be. No re-design will make the park more vibrant than inviting people in to use the park.
362	Social interactive and expressive hub at park social services and outreach off centered but close to hub.

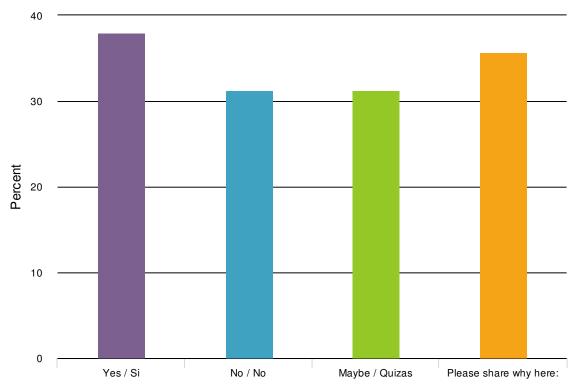
ResponseID	Response	
364	More focus on IMPROVING transit, and encouraging people to take RIPTA rather than driving their private vehicles into downtown. We are a small city in a small state; people should not have to commute in their private vehicles. Get rid of parking! Shrink the highways!!! Reclaim space from the massive HIGHWAYS that break up our city! Pay people to take transit rather than the other way around!! Incentive mass transit and active transit!	
375	More comprehensive public transportation to help downtown attract more residence and business	
376	Scrap everything except for the welcome center and bathrooms. This is totally off the mark.	
379	Don't ruin the Kennedy Plaza Bus Hub. It was already just rebuilt, so you are wasting money. You are also displacing thousands of riders that now will have to make multiple transfers rather than just one, as most buses run through kennedy plaza. I understand that the state government problably wants to push out the homless people that hang out there, and increase property values, which is the real reason you are pushing this.	
381	Keep Washington Street open to maintain existing RIPTA bus service.	
382	Eliminate skatepark and basketball court - this is not the place for that, too noisy and disruptive. Make it easier to walk between the basin and the park. I understand the tunnels will be eliminated but the ridge will not be large enough to accomodate people without their having to cross Memorial Blvd. I am not convinced the splash park adds Will passersby necessarily get wet? I walk that way to shop at the Mall. The fountain seems contrived, verging on Disneyland.	
385	allow places for street vendors to sell local goods, foods	
More pop-up events (food trucks, etc) and more permanent facilities a wine bar/beer garden, a carousel or something for kids); taking instruction many park spaces in European cities		
390	So far none of the people I've talked to about this are excited about the mist ring. Seems odd, and not a great of use of energy or the space. I hope the splash park won't take up too much of the main Kennedy plaza area, because most adults will not use that space. I also hope there will be bike lanes.	
395	I think it would be detrimental to tourism in this city to take away the one buys hub in the state without moving it somewhere as a unit. Public transit is extremely important if we want people to visit and enjoy rhode island and that's not possible with a hard to navigate RIPTA	

ResponseID	Response
400	Everything looks great. Do propose the public library and children's museum open up again soon.
403	eliminate water features such as water parks and mist rings maintenance costs will result in neglect relocate social service outlets does not belong adjacent to entertainment space
404	I urge the design team to treat the functionality of the space as the large, supportive, core of the project and bring whimsy, fun, and creativity to that core. The project team gathered and presented data which shows that the space is primarily used as transit and a hub, and proposed a concept of "rooms" of entertainment, with no articulation of corridors and wayfinding around those rooms. It strikes me as trying to make ball-rooms and chill-out rooms in Penn Station, so that people like it as much as Grand Central. Kennedy Plaza is a great opportunity of space in downtown Providence, but it is not a living room and it is not honoring the framing questions you presented of what it would look like to center marginalized people's experiences and needs to try to make it the coolest living room ever. Kennedy Plaza is our Penn station, and I'd love to see it become more like Grand Central. And that is not done by ignoring the transit and service provision space it provides. I wish the presentation had (or over the past two months had been developed to) center bus shelter design, create multiple shaded spaces that allow for different uses and groups of the shaded space, highlight wayfinding, housing for services, consideration of staffing, innovative and attractive public toilets, and edifices for use by local groups for pop-ups. And, on an even simpler note, a cross-walk at the transition of Cookson Place to Exchange Street across Exchange Terrace. The current project design takes a space which is used primarily as transit and transient space and decided that was a problem - I'd like a design proposal that serves and honors the current needs of the community, and makes doing that beautiful and fun.
408	Keep in mind the residents of WaterPlace and the noise levels.
411	Perhaps 'walk-over' types of sidewalks that will allow for better access and egress fro park at times when there will be huge crowds due to lager entertainment events. So crossing both Fulton St and Exchange Terrace into and out of the reimagined spaces.
415	To keep the downtown Providence area attractive, artistic and welcoming to all!
417	It makes no sense to have a social service center for the homeless adjacent to a cafe. Social services should not be located in the park, but rather nearby.
419	What is the point of getting rid of these streets if there is still so much concrete on the ground? Add grass to the area that is currently a street and also the area that is currently KP.

ResponseID	Response
420	I am worried that the Free Space is an invitation for graffiti. I am also confused why the elevated walkway crosses both Exchange Terrace and Memorial Boulevard at street level but is raised above a parking lot. Shouldn't it be raised above traffic and at ground level where there is none?
424	1. This project should better leverage the food and culinary culture of Providence. We have one of the BEST culinary schools in the country and an incredible DIVERSITY of small, amazing, restaurants. New graduates and immigrant cooks, need affordable space to begin their careers, and food brings people together. There should be a food-grade kitchen and popup spaces that cooks can share with outdoor eating areas. Perhaps instead of the single cafe? 2. The Waterfire mist feature is a touristy misconception of Providence public life. Look beyond waterfire to find Providence culture.
425	1. This project should better leverage the food and culinary culture of Providence. We have one of the BEST culinary schools in the country and an incredible DIVERSITY of small, amazing, restaurants. New graduates and immigrant cooks, need affordable space to begin their careers, and food brings people together. There should be a food-grade kitchen and popup spaces that cooks can share with outdoor eating areas. Perhaps instead of the single cafe? 2. The Waterfire mist feature is a touristy misconception of Providence public life. Look beyond waterfire to find Providence culture.
427	Do you really need a fog machine?
431	please please make sure its a bit safer! :)
432	none it looks very nice
433	more space
434	Get people to pick up trash
435	Don't have any at the moment. I love all proposals already made.
436	A art wall like more drawings around
437	idk
439	Having a space where you could go while waiting for your bus on a bad weather.
442	security
445	I think the team covered majority of it, I can' think of anything more to add.
451	I would suggest to create places for artists.

452	I agree on the improvement of the tunnel connecting the Alex and Ani Skating Rink to the RiverWalk.
454	More stuff to help our environment/planet
455	The bus location and nearby routes need to be a subject of importance since they're proposing to decrease the number of buses, and I believe moving the stop, which may create problems for many who use it on a daily basis.

8. Do you think the proposal can make public spaces of downtown Providence inviting, accessible, and available to all? ¿Piensas que la propuesta puede hacer que los espacios públicos del centro de Providence sean atractivos, accesibles y estén disponibles para todos?



Value	Percent	Responses
Yes / Si	37.9%	86
No / No	31.3%	71
Maybe / Quizas	31.3%	71
Please share why here:	35.7%	81

Please share why here:	Count
It could with my suggested modifications	2
A huge improvement. Your plans will make the downtown area much more inviting.	1
A reason to go downtown other than just the utility of passing through is key. Looking at what is already successful: food truck days, public art tours, etc. and imagining more, building on rather than replacing.	1

Totals 79

Please share why here:	Count
Because it'll be a pretty environment with fun spaces to explore	1
Bus riders need convenient service. Don't push them out.	1
Continuing to spend money downtown to make it more attractive when the rest of the city languishes is just nonsense.	1
Destroying the bus system will negatively impact accessibility and equity	1
Diversity of activities that are planned for the space. You'll have shaded parks with waterfalls, open Physical fitness spaces, lounging spaces, cafes, etc	1
For the reasons above inviting, accessible	1
Getting to Kennedy Plaza is inconvenient. There's no parking. People don't want to go there, because of the homeless and dirtiness of the area. You don't feel safe down there at night. Your plan hasn't addressed this. Maybe you should spend the \$140 million on helping the homeless.	1
Having attractions such as fountains/ice skating, etc. near downtown theaters and restaurants will attract visitors as long as it is safe and free of drugs and homeless.	1
I don't have enough information to answer this question.	1
I feel like if the public places are inviting more people would want to come here	1
I feel like we need safety especially for kid 14 and younger	1
I have seen large numbers of people at PVD Fest, First Night (back in the day), bike gatherings, even PRONK, not sure what this would accomplish.	1
I just know that neurodiverse and those with differences are often not consulted properly. I think you should engage more with people with learning differences, anxiety/adhd/stress/learning conditions as well as reach out to one of the RI schools for the deaf and blind. Maybe speak to a group home for the elderly or those with developmental differences and bring on more people on the autism spectrum to share their ideas (which are often exceptionally brilliant)	1
I sag "maybe" because I have seen too many ideas, dreams, charrettes, discussions, plans, promises, and proposals fail around here.	1
I see it as inviting for all, but want to reiterate that the bus system needs to be easily accessible.	1
Totals	79

I think it is possible to do this, and I don't think this project proposal does this, because it ignores the functionality of the space. Treating a transit and movement heavy space as "rooms" and not thinking of corridors and wayfinding leads to underserved needs and frustrating attempts to walk around elements/people.

1

I think keeping buses will be crucial to making this an equitable, diverse and ultimately sustainable space. You can't let realtors try to create a yuppie playground to exclude the less affluent and nonwhite.

1

I think the proposal definitely does a lot to include young people and families which is awesome, but it should be accessible for older people and people with disabilities too (ramps, easily navigable).

I think this connects lovely public spaces that are already enjoyed in a way that thoughtfully engages how a pedestrian or bike rider would be able to move through the space more comfortably. It leaves room for public transportation, play, socializing, and outreach. It will be super important to name the funding streams that will allow for the maintenance and security of these spaces.

1

I understand the plan seeks to consider equity in the final design. Including social services offices is one way of doing so. Unfortunately, I think the inherent assumption of who may be around that area to get those social services may deter other visitors.

1

I was born, raised, lived and worked in PVD. It wend downhill fast. I got out. After years on off Benefit, I moved to the suburbs. I still worked in city, would go to venues and restaurants, but wife, family and I were getting hassled by hoodlums on Fed Hill, punks Downcity. No longer a safe place. Shootings, stabbings, bike gangs. Sit at Julians and get bothered by thugs, no more. We stay in the suburbs. Nobody getting shot in East Greenwich. PVD a shithole. Good luck. Maybe with some leadership you have a chance. Otherwise you're giong to continue to attract criminals and gangs.

1

I would avoid due to the noise of the skatepark and the basketball court. Unpleasant for a walk. I now avoid because of the noisy buses and crossing so many streets. I take Westminster or walk along the river.

1

I'm all for improving public spaces. Making a public transit hub less functional is not an improvement.

If you eliminated that gathering of homeless people there.

1

If you leave the bus terminal intact and update how it is conveyed, make it more easily understandable with clearer markings, maps of routs with stops highlighted, and reduced fares. Improve what exists because this will disrupt so many peoples lives and make transportation needlessly harder for the people who have the least access to better transport.

1

Totals

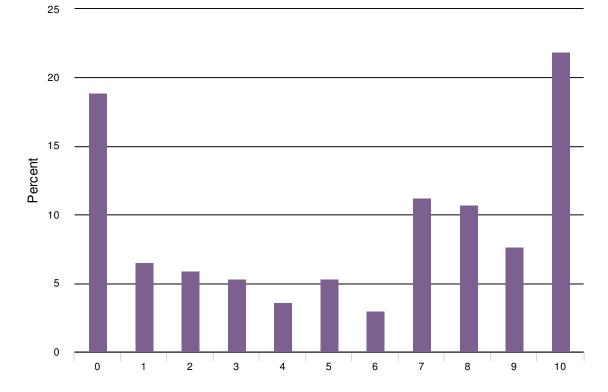
79

Please share why here:	Count
Inviting once, but not repeatedly	1
Is it really for the residents of Providence? Will the buses travel there more frequently and at convenient times? Is a three-hub bus station really "accesible to all"?	1
It feels like the proposal is just shoving RIPTA and its riders out to the margins. Put us front and center and be proud of us!! Incentive mass transit use!! We are a tiny state with a huge asthma problem! De-incentivize private vehicle travel.	1
It has to include people that already need and utilize the area. More help needs to be brought to residents that rely on the already existing and stretched services. Help what's there.	1
It is clear that transferring between buses will be more time-consuming, terrible in bad weather, and generally inaccessible. Any one of us could be disabled at any point! So many Covid survivors have disabilities now too.	1
It is pushing people out who need transportation	1
It looks like something designed for upscale populations, not our underserved underclasses.	1
It looks vibrant and inviting	1
It will be inviting but if there's no big hub, it ain't be accessable	1
It will disperse bus riders from the area	1
It's a start but still really halfbaked/pie-in-the-sky, particularly given an iffy maintenance record of what's already there.	1
Its stupid	1
Less convenient to get to Providence by bus	1
Make it a hindrance for cars to cut through downtown, keep it safe and local traffic only	1
More inviting	1
Moving most of the buses further away from the space presents physical and psychological barriers. See my answer to question 7 for more.	1
No one is interested in sitting under a gas station canopy.	1
Totals	79

Please share why here:	Count
Not as it is currently set up.	1
Not sure balance between spending on "fun" (read; costly and hard to maintain) projects and actual clean, manageable improvements is right	1
People aren't going to go downtown to use Kennedy Plaza. They have to be downtown first.	1
Politics	1
RI DOT continually focuses on vehicles and not pedestrians and bicycles QED EBBP in Barrington - abandoned - extension of Wash Sec path into CT abandoned	1
See previous answer. While transportation is claimed to be a central concern of the designers, it is clearly less important in this plan than the amenities aimed at upscale users of the park. Since bus riders are primarily low income people of color, this is discriminatory.	1
The buses are threatening.	1
The current proposal makes the entire city less accessible to people with disabilities	1
The homeless people and the trash they leave behind is what makes Providence less inviting. Otherwise I think it is a great little city.	1
The lack of public transport means it seems like they want only the college students and the rich people from the East Side to enjoy the space.	1
The plan seems people-centric. It is exciting.	1
The plan would make it more difficult for people to access the plaza on the bus.	1
The proposal does not go far enough to address racial justice and equity, especially around homelessness and transit. Much work to be done.	1
The success of this plan is dependent on maintaining a secure funding source for programming spaces. If this is not done, there's a rush that these open spaces will become vacant void of people most of the day and potentially dangerous. Examples: Cathedral Square, Waterside Park when a WaterFire of concert is not happening (90% of the time its empty)	1
There's a lot of space for the handicap to just take a stroll there's a play area where kids can have fun. We can eat and chill while waiting. It's just gonna be something that all ages will be able to enjoy.	1
Totals	79

Please share why here:	
They can and should. The ripta riders need better and more services	1
This is a design for tourists and bringing in people from outside this doesn't serve the city at all.	1
This makes it less accessible for people who need to use the bus system.	1
This plan seems to have ignored the needs of people who need to use transit to get to Kennedy Plaza or anywhere else, for that matter. Very disappointing to have transit users needs so completely ignored.	1
Very poor website.	1
What are you going to do with the people that will be displaced by this redesign? What is meant by "social services" and will people who frequent this area actually get the help they need (housing, food, drug rehabilitation, etc)	1
Will it feel inviting to people without kids? Older couples? Skateboards are loud. Also, Superman is a hulking menace while empty.	1
With caveats above.	1
YOU'VE RUINED THE BUS HUB. This whole project is a title 6 violation.	1
Yes as long as a serious transportation strategy is devised	1
You need to make sure parking is free/available.	1
You're pushing out poor people and people of color. Rich white property owners aren't 'all'.	1
general concepts seem appealing, but they also disrupts the existing uses of the space, i.e. transit hub	1
it would be better if you better connected to the woon greenway under the Providence place mall	1
lost bus access to KP will hurt	1
possibility that this wil result in much needed road repair, sidewalk replacement, ADA access issues maybe resolved	1
some groups will see nothign for them. And be right, seems like you are alreadey excluding bus transferers.	1
transit for residents is displaced.	1
Totals	79

9. Drag the slide scale below to tell us how enthusiastic you are about the "Transit and Pedestrian Improvements to Kennedy Plaza"? (Explain your answer in the next question) Mueva la escala a continuación para decirnos qué tan entusiasmado está con las "Mejoras de tránsito y peatones en Kennedy Plaza". (Explique su respuesta en la siguiente pregunta)



10. What else would you like the design team to know about "Transit and Pedestrian Improvements to Kennedy Plaza"? If you answered that you only want to implement a portion of the project - which part would you prioritize and why? ¿Qué más le gustaría que el equipo de diseño supiera sobre "Mejoras de tránsito y peatones en Kennedy Plaza"? Si respondió que solo desea implementar una parte del proyecto, ¿qué parte priorizaría y por qué?



ResponseID	Response
17	Prioritize connection to Woonasquatucket River Greenway, prioritize ADA access to all spaces
19	It is important this remain user friendly and central to downtown
28	Make the area truly accessable for ALL.
30	Make sure lighting is bright at night
35	Look at my answer to #7 for more, but the transit "Improvements" are anything but. The pedestrian improvements are fine themselves (though I'd like to see an expanded vision for traffic calming downtown), but I'd rather keep everything the way it is if "improving" means dealing such a huge blow to transit.
38	As long as the elderly can easily reach the buses, I'm okay with everything as proposed.
39	Explaining where all the public transportation is going.

ResponseID	Response
42	Get rid of the rogue motorcycles.
43	moving the bus terminals and captuing all that space is key. i love it!
46	Keep a way to cross Memorial Blvd. without having to cross the street (tunnel)
47	The Big Shade, well maintained bathrooms. I love the skating rink that turns into a fountain—but could be perceived as a luxurious add-on. Another caveat; more attention to detail needs to be emphasized for the public to understand why The Big Shade would be beneficial to the climate at KP.
48	The project seems like a great way to prepare downtown for changing climate challenging and create a great space for the community
56	Self-cleaning public restrooms kiosks, adding trees and vegetation and open grass area. Improving safety by discouraging homeless from gathering and panhandling. Providence needs to address the larger issue of littering within the city so that it remains clean and beautiful. Trash on streets needs to be cleaned even during winter.
67	NO mist ring - too expensive and we will never have enough money to maintain it *Please listen to the people who take the bus as a daily part of their lives. I would rather KP be an authentic reflection of our city than commercialized. KP is for the people of Providence. Not tourists. No tax breaks/structured plans that essentially mean developers end up paying little to no taxes.
70	I don't support the location of a bus hub in the Jewelry District. I do support closing Washington St.
72	Ithink the transit system needs to move, I am very much in favor of that, I don't like the activation plan. If you're going to build something like that for the community OK cool. But why are you gonna build that right in the center of downtown? Would you want to build that in a different part of the city, one that needs more development rather than reworking an already developed area? If you're looking into developing the city, why don't we look for a light rail system much like the eco-friendly one that Denver has? Move the bus terminal completely out of the city, and have the light rail system connect to it? Ultimately it would be developing infrastructure, going more green, and expanding the Providence suburbs As far as the walk goes unfortunately at sea levels will rise, that should happen
76	Pedestrian improvements are well intentioned. The bus changes are not improvements at all.
77	Keep Kennedy Plaza as a single bus hub!

ResponseID	Response
78	The pedestrian improvements seem interesting, but the other stuff seems calculated only to get a headline. A fountain is worth a single visit, but a city square is a place where people travel every day. Also, the other features seem expensive to maintain and Providence is already crying broke all the time.
80	Better pedestrian access is a good idea, but keep all the bus lines there.
84	KP has been redesigned around12 times in my lifetime. This is not an issue with urban design, this is an issue with the enforcing laws and keeping the place safe. I fondly remember being in KP Park in 1960, it was lovely. It's gone downhill since. First it's ugly, second it's filed with criminals and vagrants. the biggest criminal sits across the plaza in City Hall.
86	You seem to be exiling transit. Yes the state wants to, but they are foolsonly interested in the value of money, not the life of the community. Lots of fun stuff, but needs to be at least as good for bus riders as walkers.
88	If you don't get it by now why I disagree and feel you are wasting money than you are never going to get it. Which people like myself know you will do because those with money always get what they want and screw the majority because we don't have the money!
90	Will we still have the same amount of public transportation available?
95	Modernize the RIPTA and expand access before making a suspended mist ring
99	Keep Washington Street OPEN to vehicular traffic, but DO move the bus stops to Fulton Street and the periphery. Do NOT move the old Soldiers'/Sailors' Monument. The existing Welcome Center is a crappy building - that could use replacing, tied in tandem /oppostion to the proposed Stage Structure, with a new rink/water feature between, but tighter/more elegantly constrained. This is an URBAN park, folksall the cutesy freeform moves only work at Olmsted scalethey look trivial in a formal urban square bounded by substantial buildings on all sidestake cues from things like Bryant Square in NYC or Post Office Square in Bostonolder work now, but very solid and they've endured.
100	How can it be a "transit improvement" when the plan makes transit more confusing and less convenient with harder transfers, less access to indoor amenities, security, and most buses going to less desirable locations than KP
103	Please ensure residents are more included regardless of socioeconomics. With our arts community, and respect for our neighbors, I think we can do better.

ResponseID	Response
108	Please do not list this section as Transit Improvements. This plan will worsen public transit.
110	Make it safe, don't make people climb stairs or walk over unrealistic Bridges to get from one place to another.
111	If you want to make people want to come down to this area, then you need to move the bus hub somewhere else. Maybe over to the parking lot next to the Citizens building, or the large empty space between the mall and train station. Connecting the bus and train station would help travellers.
113	All those areas work fine now. Don't mess with them. If you want to try to improve downtown Providence, get some real anchor stores into the Providence place Mall
114	Only like the overhead walkway. Current one is scary
116	WASTE OF MONEY. Fix the schools and roads!!!! Providence is filthy!!!! Neighborhoods are suffering!!!!!!!!!
119	Scrap the entire plan and start with the goal of making RIPTA service better, not worse.
121	That it should not happen and whatever the taxpayers have paid for this is already too much.
122	Leave it alone. Fix the traffic pattern
123	Safe areas to walk and wait for public transportation
126	Kennedy plaza should stay where it is. This part of the project is tied to the dissolution of KP by turning it into a string of bus stops spread out across downtown. Therefore, I don't support its implementation. If you decouple it from the dissolution of kp, it'd be a worthwhile endeavor.
128	The people who have been negatively impacted the most by the Pandemic are the people who rely on public transportation the most. As a voter I believe affordable public transportation is a priority! My friends and family believe it also.
131	I'd modernise the river walk and make sure theres a lot of well thought out green infrastructure. I'd send the buses underground to free up greenspace. I'd power any lighting needed with green energy, and maybe do the whole project with electric construction equipment. I'm pretty sure none of this matters though in the long term. I think kennedy plaza is supposed to be underwater in 50-100 years, so any improvements made to the space would be forgotten rather quickly.

ResponseID	Response
134	If eel as though this design process has been used to promote the ideas of some downtown property owners who want to get rid of the bus hub in Kennedy Plaza. I don't mean that the design team is intentionally complicit, but they certainly weren't attentive to the needs of transit riders who are currently the most consistent users of Kennedy Plaza.
136	We should not be rerouting busses away from Kennedy Plaza and making it harder for people to use RIPTA.
138	The bus terminal needs to be prioritized as integral to the welfare of the people of this city and state.
139	Transit riders are not having a problem with the hub. So why are we trying to fix that?
140	I think the suggested improvements will benefit tourists and more privileged folks rather than those who rely on public transit
141	Making public transit better and more accessible would increase ridership
143	If anything the transit hub should be expanded not disbanded.
144	Disruption of centralized transit offsets many of the benefits of the pedestrian improvements.
146	I like the pedestrian improvements but the transit plan is terrible. I'd rather keep it as is if RIPTA isn't one downtown hub.
148	Calling it "improvements" is unfair to the many bus riders who will lose more hours from their week due to missing their newly remote transfers. Putting in more trees, public facilities, and renovating Waterplace Park would be great.
149	If eel like monuments and show pieces are not the important work tax money could go to. I agree with making a better transportation hub, but not at the expense of taking space away from it? The video didn't really talk about the impact to transportation. How will that work going forward?
156	Don't break up the bus hub if there isn't a new single hub to replace it. Otherwise, the plan is good.
157	Art, including theater needs to be a priority.
160	Currently Providence's public transit is not useful. It is very difficult not to have a car in the greater Providence area to get around.

ResponseID	Response
162	The pedestrian improvements look great. The transit improvements can work, but it seems like the proposal should go farther. If KP is no longer really going to be the hub, then the full plan for the new transit hub should be shared. I am agnostic about KP being the transit hub for the city, but the city does need a hib somewhere. I would also hope that the investments made in the DTC project are not wasted and that transit continues to be made more efficient downtown.
164	Reconsider this.
166	I was hit by a car while walking a few years ago. Spent months in a wheelchair and had to learn no walk again. Make this space safer for pedestrians.
169	The last "improvements" to Kennedy plaza made it bleaker, and these will just keep making it more like the soulless spaces seen in "modern" city plazas worldwide.
174	How is a differently-abled person supposed to get to work across town if they will have to make a transfer like those this current plan will demand?
181	I myself take the busses & I'm disabled/handicapped. I use a walker & I've been having more issues w my eyes so it makes it harder for me to see. How am i or other people who are blind or deaf supposed to know where the busses that we need to take are if u moved them away from the centralized hub which is kennedy plaza?
182	Needs visible safety presence
185	Your web site is not very usable and causes crashes and hang ups - using MS Edge.
187	I don't commute anymore and probably would not take buses. I like the idea of the pedestrian overpass connecting the riverwalk to Kennedy Plaza area.
190	Not having a centralized bus hub will make commuting difficult as all connections currently run through this area. Spreading them out will make an already time consuming process (taking the bus) even longer and more inconvenient. Also the fences in the riverwalk rendering look like chain link which is really cheap and ugly.
194	Consider making main bus hub inside Providence Place Mall
195	I don't know enough about transportation and pedestrian issues to comment strongly. I do appreciate connecting Kennedy Plaza to Waterplace Park. I just

hope that it will help the Union Station area of businesses behind the RI Foundation and not act as a bypass, further discouraging patronage.

•	1105 01130
202	For transit recreate a transit bus hub where all bus transfers can take place. This doesn't have to be in center of plaza as it is today. There's no question that RIDOT's three hub plan will be a miserable failure and create enormous hardship for bus passengers (many of whom are low-income city residents). Bus mass-transit is more than just for poor people. The downtown business community relies on it and will rely on it more, especially in the future as Millennia's (who want to live in walkable cities without cars), rail commuters from Boston (includes reverse commuters who work in Providence), and the general public statewide that looks for alternatives to driving, especially with the effects of climate change that are rapidly approaching. If it's not possible with this plan to accommodate a central bus hub where all transfers may be made, at or near Kennedy Plaza or Burnside Park here are possible alternatives: 1) Move all bus transfers to Fountain Street, possibly including Sabin Street. This could be a temporary or permanent solution. This solution could happen almost immediately, which could clear the way to start demolition on the plaza renovation. 2) The City of Providence MUST advocate to the Governor, the General Assembly, and the business and institutional community to create a new central masstransit bus hub at Providence Station. There are several possible locations, such as decking over the Northeast Corridor tracks between the train station and Smith Street, or putting the hub in an underground facility under the statehouse lawn, or on or under Station Park to the west of Providence Station. The former speaker blocked this plan. He's gone. This plan needs to be revived. Advocating for a central bus hub is critical for the city's future and the City of Providence must do this!
205	This plan ignores the thousands of people who rely on KP transit every day. You are demolishing transit for what? Some bistro tables and hexagons and a flex play space? Shame on you. Please go back to the drawing boards and listen to the people who have been speaking out at these meetings. Also our city is practically broke. Why are we spending over 140 million on something with such little benefit? Instead of a new water feature or ice rink why don't we invest in some more substantial programs to help the folks experiencing homelessness at KP?
208	Ifeel that the bathrooms, although desperately needed, will be a problem. What is the plan for monitoring, cleaning and safety?
209	They don't address the issues Fix transit & infrastructure & call it a day
213	I suggest that the people who are proposing these changes a) talk to the bus drivers, in depth; b) spend a week taking the buses; c) talk to the people on the buses in depth, and listen to their suggestions.
217	I know a lot of people are upset about moving the central hub that is Kennedy Plaza, but I think the changes can still be made there with hope that they keep the hub centralized at another place (train station). The ongoing disagreement about the multi-hub doesn't have to impact the KP redesign.

ResponseID	Response
219	Moving busses to the exterior of the space is great for safely walking and attending events at Kennedy Plaza. At the same time, there should still be easy access for bus users in the area. This also helps with traffic as driving through Kennedy Plaza is almost as nerve-wracking as walking through.
222	I think it's a huge improvement and it should all be implemented.
224	I share the concerns of local Transit advocates that replacing a centralized transit exchange with a multi-hub one will negatively impact those who rely on the bus as their primary mode of transportation. I like the overall vision this design team has presented for Kennedy Plaza. It has some playful and unexpected elements that I do think would add dynamism to DownCity. However, without a more coherent, thoughtful plan from the city/state about the future shape of the city's transit system, its hard for me to judge the improvement plan this team has presented.
236	Bike lanes extending beyond the nearest neighborhoods to connect all providence bike lanes to downtown.
240	I need more detail about how transit would exactly work and the pros and cons versus the current system.
242	Implement phase 1& 3. Revise 2. Consider upkeep, reasonableness of water park in middle of city center. Not good use of space.
243	Do not move forward with this until there is a firm commitment from RIDOT not to break up the central bus hub. The central bus hub does not have to be at Kennedy Plaza, but there must be one place where all transfers can be easily made in a convenient place. A multi hub plan is a no hub plan. If you assist them in making a more difficult transit system, especially for elders and people with disabilities, then this project is nothing more than greenwashing and empty words for equity.
244	My problem is that we're fundamentally missing what we need: a SINGLE hub. I travel a lot in Europe, and what really works is having ONE hub in front of the train station. Given that our train also connects to the airport, we're only a tenth of a mile from having a perfect solution that is based on what WORKS in other parts of the world. Keeping KP and the train station completely split feels like a Pyrrhic victory. (Maybe at least add lightweight rapid transit between the two? That needs to be part of the "design": design a *solution*, not a *space*.)
252	Please expand the play spaces and play structures for kids
255	Washington St. and East Approach should definitely be closed.
258	I think GKP should have no streets or cars or buses in it or circling it. It should be a park/designed plaza as in Paris. A

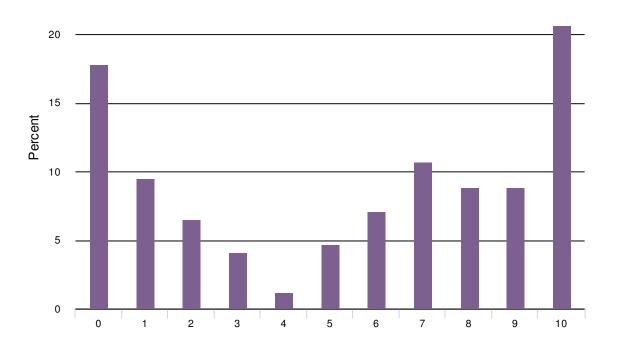
ResponseID	Response
261	I love the idea of connecting Burnside Park and Kennedy Plaza - to me that a must. But I think we need to really re-think our transportation hub. We need a coherent plan here. Perhaps put it underground near the train station and have a bus that loops people downtown every 5 min.
262	having a central location will make it easier for all. Make the improvements sustainable in design and with decor
265	Again, area needs daily-use non-residential attractionsbars, restaurants, entertainment venues, museums, etcplus increase in residential density.
274	I am wondering how moving the buses along the street is going to change the dynamic of Kennedy Plaza in any real way. And how will the homeless population be served? Physical removal? Families want to feel safe and welcome as do singles. It is such an important space for our city. If the homeless, vagrant, drug dealing and crime are still present, no amount of plantings or lighting will make a difference. Let's hope!! Would love to see this change and we can all join together.
278	How will people, not familiar with Kennedy Plaza, quickly be able to find their way to their next bus?
283	If you don't deal with pan handling, homelessness and other safety issues people won't feel safe.
285	As stated above, I believe a larger unified public space would be very well used and enjoyed by everyone but if you are taking the bus hub out of KP, please replace it with another single hub (at the train station would be ideal). I would prioritize raising the riverwalk and instead of building a new elevated walkway (which would require more maintenance in the future) I would improve the existing connections.
288	Do not implement the multi bus hub. One hub in Kennedy Plaza or at the Train Station.
293	I heavily support closing the middle streets but am nervous the plan removes too many of the bus stops and will make bus travel untenable for working people.
300	How much is this going to cost and how long will it take to realize this plan? If Washington street is going to be closed, where is that Washington street traffic going to go? This could turn into a logistical traffic nightmare while under construction.
305	Prioritize the closing of washington st and the east approach, allowing the square to prioritize people over vehicles, but make sure bus access is still easy and convenient.

310	Definitely close Washington Street.
322	The current proposal is terrible for transit. Transit needs to be the priority.
327	Do not expect people to go to the train station to get downtown - distance, weather , elevation, contourage, disability, Memorial Drive crossing
329	I am interested in a better bus system and routes, but do not think the Kennedy Plaza plan alone will improve the whole system enough to be worth while. RIPTA the city and state should be working together to look across the whole map to make improvements, not focus on one place.
331	Less bums
339	Clean, safe, monitored public restrooms would be the biggest improvement I can think of to this entire area.
341	I believe a great city needs a great transit hub. If you are trying to create a unifying central space (not to mention equitable and convenient transit), don't disperse the buses.
343	This revitalization will create more foot traffic which means the public transportation should be readily available and parallel to the increase in foot traffic
357	I don't see any details on involving groups with exceptional or different abilities so its hard to say. I would like to make sure that any alternative access for these people is not segregated, but well integrated. I think you need a committee composed of a group of around 10 people with different abilities who meets with your planners during every stage to evaluate their groups effective inclusion. I also don't see anything about the ecological impact of this.
361	I take the bus to work every day and I have been very well served by the improvements of the DTC project. As long as RIPTA continues to offer such convenient lines and connections, Kennedy Plaza the bus hub will not be missed.
362	Prepare downdown for the changes of climate, electric car charging, alternate modes of transit(bikes, scooters, tram) and prepare for flooding and increased heat issues.
364	I appreciate the pedestrian-focused parts of the projects; however, please do not move buses out of Kennedy Plaza. Moving buses is a waste of energy and would make bus riders' lives more difficult. Kennedy Plaza already functions well as a central transit hub!!

ResponseID	Response
376	As I said before. It is a complete lie to call destroying the bus hub 'pedestrian improvements.' The Kennedy Plaza central hub is the best thing there. It's functional and necessary. I am enraged that you're wasting my tax money to benefit a few rich people at a great cost to the rest of us.
379	Once again, under this project an intermodal bus hub would be turned into a park for tourists. Hello? Any planner with a brain would know that public transit should be valued, not destroyed. What is this, the 1960's again?
381	Improved pedestrian access between Kennedy Plaza, Burnside Park, and the WaterFire Basin is needed. Washington Street and Fulton Street must retain their existing configuration to enable existing RIPTA bus service and future improvements.
382	Good to get rid of the bus lanes and design a more coherent and beautiful park. I would prefer a traditional garden approach with open spaces more like Lafayette Square in Washington DC. As noted earlier it still appears difficult to walk all the way from downtown to the river without crossing a street. Need a "high line" that goes the whole way. Make it a beautiful, walking adventure.
385	the fewer the buses the better
386	I think transitioning as many of the boundary streets to pedestrians only would make the whole area seem much more enjoyable, not having to deal with cars.
390	Support this part of the proposal very much
395	Keep one centralized bus hub
403	There is no info about the relocation of bustops multihub? the sidewalks around the city need extensive repair ADA issues- consider ADA-wheelchair, blind pedestrians
404	I want more/better bus stations, shelters, and washrooms. Not one big shaded area far from unshown bus stops. Kennedy Plaza should be the centralized transfer point for downtown Providence. Multi-modal connections should be at other further removed areas. I like the articulated river walk and crossing ideas. I am ambivalent about closing streets - stronger preference for successful multiple use and an additional crosswalk at the actual Exchange corner (not just middle of block where it already exists)
411	N/A
417	I strongly support all three projects, as long as the budget includes ongoing support for policing and for maintenance of the grounds and facilities.

419	More grass! Make this area an urban green oasis.
427	unclear how transit will be integrated in redesigned GKP. plans too conceptual
431	will buses also be changing especially for pollution problems
432	a speaker announcing when buses come
433	have people that can help you find what you need or how to find a bus
434	Nothing really
436	The windows for the stop. They should make new ones because its dirty and scratch up and some are broken by a bullet.
437	Sanitation, so if kp was gonna have new benches; cushioned would not be the best idea
445	I have nothing else to say, it's all great.
452	I was concerned about RIPTA being moved out of Kennedy Plaza but it's a very bland and non exciting place right now so it'll be cool to see the improvements and new transformation!
455	The routes, because I remember hearing that the routes will be closed around the Kennedy plaza. I'm concerned, since it's a very used route, especially since it's in the downtown area. As a result, I feel like the extra crowdedness that will be expected on the nearby routes will cause major problems for travelers.

11. Drag the slide scale below to tell us how enthusiastic you are about the "Activation Plan for Greater Kennedy Plaza." (Explain your answer in the next question) Mueva la escala a continuación para decirnos qué tan entusiasmado está con el "Plan de activación para Greater Kennedy Plaza". (Explique su respuesta en la siguiente pregunta)



12. What else would you like the design team to know about the "Activation Plan for Greater Kennedy Plaza"? If you answered above that you only want to implement a portion of the project - which part would you prioritize and why? ¿Qué más le gustaría que el equipo de diseño supiera sobre el "Plan de activación para Greater Kennedy Plaza"? Si respondió anteriormente que solo desea implementar una parte del proyecto, ¿qué parte priorizaría y por qué?



ResponseID	Response
16	I am worried about how the "Big Shade" will block the Federal Building which is a really nice complement to City Hall and how the "Free Space" will limit views of the old station. I do support removing the ice rink building which makes the space feel necessarily crowded.
17	Water park/splash pad/ice rink will really make the place special and a focus of activity.
35	I'm more or less fine with most of the ideas for activation, but I'm not ok with how they take the place of transit. See answers to #7 and #10.
39	It seems more like NYC which is nice.
42	Get rid of the rogue motorcycles.
43	nothing else other than i like what i saw.
47	Teenagers need a spot for activities that's not a playground! Give our young people something to meaningfully occupy their time.

ResponseID	Response
70	I like the big shade and rink relocation ideas. The teen area feels very vague and potentially like a repeat of what we already have, an unprogrammed space.
75	As I mentioned earlier. I'd like to see the splash pad scaled back. I'd like to see more opportunity for small businesses
78	The elevation of surface features over the important factors is one that urban planners should be embarrassed about. KP is in poor shape because of the businesses (and government) that have fled the city and state policy that encourages them to do so. Making the plaza into a theme park won't change that, not matter how pretty.
80	Promote retail space around KP, increasing foot traffic. All thee is now is a 7-11 and a CVS that's well hidden.
82	Add retail and commercial buildings
84	Bring it back to 1960
86	Keep the buses in KP
88	Leave that entire area alone and actually put the monies to better use!
90	Love all elements of it.
99	See abovetighten and formalize the design more/inject some reality over the loopy charrette ideas.
100	Undecided if people will come to KP in sifficient numbers to make it worthwhile, due to the difficulty of parking and the downgrading of transit
108	The Big Shade would be a great addition to Kennedy Plaza, but otherwise Kennedy should stay as is in my opinion.
110	Keep out the drug dealers and drunk people getting into fights, and let people figure out how they want to use the space.
111	I like the idea of creating a better community space down there, but how you have proposed is a failure. You are still going to have a mix of bus travelers, homeless and people trying to enjoy the park.
113	Again it all works fine don't break it
114	X
115	Again, ease do not break up the bus hub.

ResponseID	Response
116	I would like them to know this is a total waste of money. It's like putting lipstick on a pig. Has any of these "designers" stepped outside the city into the run down neighborhoods that really need help? How about fixing the schools and building community centers for the youth that have nowhere to go and nothing to do? How about getting new chromebooks for the city school kids? How about building new schools to replace the ones that are falling down???? How about that? We don't need a freakin splash pad!!!!!
119	A performance space might be a good way to engage people and bring them downtown, but it should not happen at the expense of the bus hub.
121	This is a waste of taxpayer dollars just as the mayors spending on bike lanes was earlier.
122	None
123	Don't need a playground or splash pool in that area
126	Again, I do not wish to KP "activated", a garbage consultant-fed, marketing "chic" word, used to shroud the actual plan. Which is destruction. Kind of the opposite of creation, activation, etc. It reminds me of that gorgeous part of American history when we changed the name of the War Department to the Department of Defense, at the exact moment when we stopped fighting defensive wars and have literally only been fighting offensive, interventionist wars since. The very few people who are "advocating" for this plan are doing so because their in Paolino's pocket (McGee, Elorza, Hiiiiiiiii), are Paolino or his kin, or are the poor scamps in government who have to take the fall and or enact these initiatives (Jess pfaulmer, I'm looking at you). The majority of the very few people in the state who act like this plan is a good idea don't even and never have had to take public transit in their life. You're out of touch, cruel, and woefully misguided. Truly don't know how you sleep at night.
134	I was surprised to see the plan refers to "reclaiming" this space in the city center. Who is it being reclaimed from? Transit users who need and use this space now? The homeless? The elderly and disabled who may not drive and depend on transit?
138	Does not center the needs of the people using the service (buses)
139	Why not just a great interactive public sculpture like the Cloud Sculpture in Chicago? Why not just set up a games and food area like in Bryant Park in NYC.
143	Relatively neutral
144	Rethinking the layout for modern uses is interesting, and should be balanced with existing functions

Response
I like the idea of having a big park but the plan does not address policing, equity, justice, and housing.
Planning for sea level rise, and improving bus facilities not destroying accessibility should be priorities.
The spirit is good, but as mentioned above, at the risk of losing a transportation hub? Perhaps just the rink area / burnside park could be revitalized instead?
It needs more than a single restaurant at one end. If the adjacent buildings could put in restaurants, that would be one thing, but they can't easily it seems. So put the opportunity for more in KP, even if they are "temporary" buildings like the Dune Bros.
No real thoughts.
Mmhmmm
Currently Kennwdy Plaza I'd an uncomfortable place. It has become a space for people in need of public service (who are not receiving it) to spend their days. It feel does not feel like and inviting and safe public space.
Reconsider this.
Ok
It will suck for everybody who relies on taking the busses cause they don't or can't drive a vehicle or b able to afford 1
Poorly designed website causes problems while viewing it.
By activation plan, do you mean opening the space up to make it more unified? I'm in full support. I'm a little unsure of what the shade area is to be used for. Is it for visitors to learn about what to see and do in Providence? That would be a good idea. Maybe notices regarding the upcoming events to be held in Providence.
The idea is nice for Kennedy Plaza but I don't think people will gather here and it is not well explained what will happen to the people who already use this area ("social services" is cited but if these people aren't provided adequate housing, food, drug rehabilitation where will they go instead?) Take some of the money from this plan and actually use it to help this population, we don't need a mist ring we need help for the people of our city.

ResponseID	Response
195	I think there are a lot of great ideas. I think successful activation includes outreach, getting local organizations to commit to program activities, as well as artists/ performers. If it is just left as a wonderful space to be activated without that outreach and kind of primer, I fear it will not reach its potential. I don't know if this is the right spot to say this, but I like the idea of play for any age. In Boston, the Lawn on D for example.
202	My enthusiasm is tempered by the elimination of the central bus hub without a viable alternative (RIDOT's multi-hub plan is NOT a viable option) and lack of clarity as to a funding stream to support programming of the improved open spaces at Kennedy Plaza and the old skating rink location.
205	There are some interesting ideas, but it feels like you're blowing up everything to start from scratch, only to vaguely rearrange the pieces. The rink in the middle makes no sense, and will be a money pit. Why are you moving it? What are all these flexible spaces going to be used for? What is the transit capacity of this new design? Work with some of the existing pieces - this plan reads as the hubris of designers trying to make their mark on a public space.
208	I love moving the rink, and adding a skate park.
209	You are designing this space for one very small part of our population who are young, don't work & can hang out in KP when & if they want
213	Is this really for the people of Providence or for tourists? I think that if the people of Providence are enjoying the space, that's a plus.
217	Seems like a great multi-purpose space!
219	Moving the ice rink will help more people utilize this space and will help this area along Fulton St. to be much safer. The wrong crowd sticks around and makes it incredibly unattractive on a daily basis. I do like the reuse of the current ice rink location for recreation as well.
236	More art space for pop ups and markets
243	Bus riders currently activate Kennedy Plaza. If we remove them, then extra programming will be necessary to prevent the space from being empty. This seems so counter productive to the goals of it being a thriving, dynamic space.
244	I must admit I don't fully understand it.
255	I wish there was more grass on the currently paved side. This feels like getting rid of cars but still keeping 3/4 of the area as pavement.

Ilove the idea of activating Kennedy Plaza - hopefully, we can entice someone to activate Superman next! All good! Needs curation and frequent programming. Prioritize making Kennedy Plaza safe. Take Out the cross street and build the park. Mixing buses and parks just doesn't seem to be a solution but just crowding the transportation into a smaller space. It is not totally clear to me where all of the bus stops will be. What is the greatest distance to make a bus transfer in the proposed plan versus what the existing arrangement allows? What are the implications if Fulton Street becomes busy with buses? Splash pad is great for families as long as there are bathrooms and changing rooms, I saw the words "wading pool" somewhere - please do not do this! Too much maintenance, trouble with animals, trash/cleaning, water treatment, drowning hazard, etc. Also love the teen area, performance spaces, and skating rink. I assume Burnside will be aimed at the younger kids? Can we add more trees and natural play elements (boulders, wooden structures, etc?) I also do not like the mister - I don't want to detract from waterfire and it seems like the money it would cost could be used better elsewhere. Heavily support the social services and bathrooms. Would love to see spaces for children to enjoy. Only criticism is I would prefer more green space and less concrete. Kennedy Plaza could be a great public square like you see in the great cities of Europe and Latin America. Please focus on bringing out its great bones and making it a quality public space. Trying to shove too many 'amenities' into the space to activate it gives me concern about the long-term maintenance liability we are creating. Honestly, some of the big thinking here looks more like a theme park than a public square. And please please get rid of that shading station and just	ResponseID	Response
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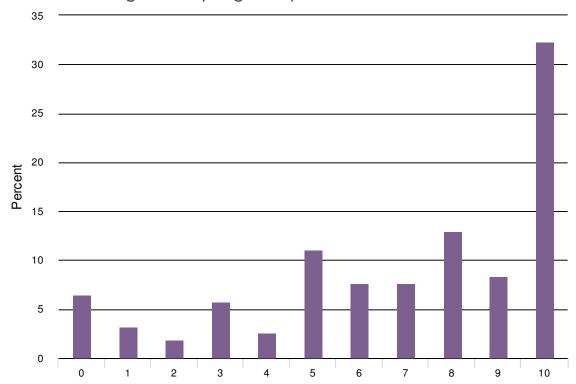
ResponseID	Response
310	I am unsure about the "activation plan." My primary concern is with the "big shade" which seems out of scale and my second is with the "free space" which seems like it would accumulate graffiti. I would also like to see less concrete in the Kennedy Plaza area.
311	The whole "free space" as a way to attract teens so that they can break dance and beatbox feels patronizing and removed from any youth experience.
327	More opportunities for children's play, biking, nature trail, birds of prey, oratory, perfornanceand quiet seating
329	Some of these ideas seem nice, but so many other parts of the city need improvement first.
330	There needs to be lots of green spaces.
331	Waste of money
339	The Riverwalk is gorgeous. Dollars are not needed to modify it physically, dollars are needed to patrol it and maintain it. Stop spending money to build nice new things only to let them fall apart! It's tempting to reimagine things that have fallen into disrepair, but it's bad investment. How about some funds to reclaim what we already have, instead of reimagining it!
341	Definitely like unifying park and plaza. Not sure whether moving buses to the edges is really convenient - perhaps save some space for a smaller bus exchange. I would put more emphasis on large public sculptures and other dramatic visual attractions. Also, I would add a water table for children. See Queen Anne's Park in Newport.
356	The park still seems too inorganic, with insufficient attention to the possibility of including nature into the design. But I love the idea of moving the bus stops and creating more space for a park.
357	I am very excited! I just want to help make sure all stakeholders are considered and consulted because Providence is the central hub of our small state and this is a HUGE opportunity to do things right re: climate change, economic and social equity, etc. The new structures should have green roofs with native plants as well as emergency beacons of sorts
361	As I mentioned with Waterplace Park, you need to give people a reason to be in the park. Food & Drink Kiosks would be a great way to invite office workers, students, and tourists to spend a moment in the park. They have them all over Europe and in many great urban parks all over the USA. A park with nothing to do will attract no one.

ResponseID	Response
364	Prioritize pedestrians over cars. But do MORE to de-incentivize private vehicle travel. Get rid of parking, block off more streets to private cars. Prioritize RIPTA and riders more. More bus-only streets!
375	Hire public transit supporting planners like Portland Oregon
376	I have no idea what this means.
379	This project is a title 6 lawsuit waiting to happen. Kennedy plaza is fine how it is. Just because the wealthy building owners don't like the people that hang out there doesn't mean that you should ruin all the commuter's travel times (adding extra transfer as listed in the multimodal hub project). What a waste.
381	More trees and canopies are beneficial but must be done without changes to the existing street configuration.
382	Dislike the hokey aspects and the noisy bball/skatepark plan. A playground would be better. Downtown has young families with small children who need open space not skateboarding areas etc which in fact might frighten them due to the noise and rough play.
385	except the water featurethat's too much,
390	Very excited about having space downtown to walk around, hang outside, enjoy concerts, grab food and drink, and bathrooms available. Would not prioritize a bigger ice rink or splash park. Services for people in need are a priority. Murals would make the space more beautiful and creative and give space for local artists and movements.
395	I can't be excited for it knowing there's no plan to move the one centralized bus hub
403	eliminate water features and SKATE PARKS liability to CTY, maintenance cost
404	I think storage space/buildings for lots of mobile and easily maintained activation elements is a much better idea than what has currently been proposed. I think the large scale infrastructure festival space type proposals are misguided and will not be able to create either an enjoyable transit or play experience as there has been no communicated thoughtfulness about these two different space use and movement patterns.
411	N/A
415	Please allow Providence to keep its edge as a city and please don't make it

boring like Boston is

ResponseID	Response
417	As previously commented, social services should not be located in the Greater Plaza (and definitely not adjacent to a cafe!), but rather in a nearby location.
419	Maybe make the area more seating friendly? A massive open concrete area seems like it could feel exposed, get windy.
427	still needs lots of benches for people waiting for the bus
431	nothing more
433	it doesn't matter
434	nun
436	I know its cool that yall are making a difference but people will dirty it soon
437	Ifeel there should be more murals around kp
445	I have nothing else to say, it's all great.
452	I think all of the ideas were great, as long as the improvements are unique, interesting, and are pleasing to the eye I think pedestrians will be drawn to certain spaces and over time some of the spaces might become very popular even out of state.
455	Nothing else, I think I'm only concerned in how traffic/buses would look like if this proposal passes. Other than that, I'm actually very excited about this, if it happens, of course.

13. Drag the slide scale below to tell us how enthusiastic you are about the "Riverwalk Modernization." (Explain your answer in the next question) Mueva la escala a continuación para decirnos qué tan entusiasmado está con la "Modernización de Riverwalk". (Explique su respuesta en la siguiente pregunta)



14. What else would you like the design team to know about "Riverwalk Modernization" project? If you answered above that you only want to implement a portion of the project - which part would you prioritize and why? ¿Qué más le gustaría que el equipo de diseño supiera sobre el proyecto "Modernización de Riverwalk"? Si respondió anteriormente que solo desea implementar una parte del proyecto, ¿qué parte priorizaría y por qué?



ResponseID	Response
16	I am worried about the grade level crossing of Memorial Boulevard.
17	Water place park mimics the Great Salt Cove that was the gathering of the eastern native woodland tribes every summer and the name Woonasquatucket, where the tide ends, refers to the incredible productivity of the area. The native use of the area and its habitat and human gathering uses must be acknowledged and aimed for as we improve the riverwalk.
19	River walk does not need any improvements at this time
27	this is much needed
35	The resiliency stuff is great, a must. The landscaping also looks lovely. I like waterplace how it is now and will be sad to see it go, but there's not much we can do about the water rising. If possible, keeping the stonework and cobblestones would be nice it always has this really solid and stable feel which I like a lot. Not sure about the fog machine seems like it could be cool but also seems like it could be a flop, and would look kinda weird when not in use.

38	Love the idea for the amphitheatre
39	I love the inclusion of more trees and plants. It can get really hot downtown.
42	Get rid of the rogue motorcycles.
43	it looked good. i don't spend too much time there other than the occasional waterfire but that is a nice feature to leverage for the city
47	Connection to GKP is my priority. Riverwalk improvements would be amazing, but it seems like a big part of the project with the least positive outcomes socially.
56	The Riverwalk area currently abruptly stops behind the Riverhouse to connect onto Point Street. This needs to be fixed to connect the Jewelry District river area to downtown.
75	I think the river wall from the basin to Kennedy plaza is fine. I believe it could use improvements but I would also argue the funds needed to make those improvements would be better used elsewhere.
76	Exciting, but I'd dump the fog halo.
78	Raising the walkways is important to consider, but raising them 11 feet would destroy some of the nicest features of the current park.
80	As above, if Riverwalk needs to be raised for sea level rise, what about the rest of Providence when the river floods?
82	Drive more traffic to downcity
84	Spend the money on something useful.
86	put in tide gauges so people can see the changes daily and remember they are on the shore. Oneof the best things that happened to me was I used to nearly daily walk through downtown and I could watch the tides go up and down and see the life use the area based on the tides.
88	Only slightly more thrilled because I do realize as climate change is a very real danger to Rhode Island, so raising the sidewalks would be a smart investment, but again the rest of the plan is all flash and no substance!
90	Keeps the best parts of what we have and adds to it.
95	Prioritizing the changes for climate change makes sense. The mist ring doesnt

ResponseID	Response
99	Love the idea, make sure things are done durably, and I think it's a solid scheme - love the Mist Ring
100	not convinced the cost is worth the expense since I don't think the will be that much use, and I have little confidence in the prospects for maintenance. Also a surface crossing of Memorial Blvd seems somewhat daunting
108	I appreciate the part of the plan to improve the riverwalk area and raise the walkways to prevent flooding. I think the mist ring is a giant waste of money, and knowing RI it will likely function for a few months to a year before something breaks and it sits dormant waiting for a repair that will never come.
111	Raising the riverwalk is good idea. The mist ring is stupid. The island in the middle is not a good idea either.
114	X
116	It all sucks. IMPROVE the schools!!!!!!!!! Neighborhoods!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!
119	The climate resilience aspect of the river walk plan is essential. Maybe leave out the mist fountain, though.
122	None
123	To improve the Riverwalk I think there should be better lighting, rigorous clean up of trash and graffiti and emergency phones installed
126	I think providence would spend this money better on school, building and maintaining affordable housing, and dismantling the port of providence. Rather than this river walk. Actually dealing with climate change is more important than retrofitting a tourist destination, one would think.
134	I am glad to see a plan for revising the Riverwalk as needed to allow for the changes needed as a result of climate change.
138	Seems fine
139	Why does the Riverwalk need modernization? Why not just ensure that the river is adequately dredged to prevent flooding? Why not build a marsh on vacant I-195 land to capture rising seas? Why all those fences the lack of fences now is one of the charming features
143	The river walk is beautiful. I'd be relatively neutral to any changes, provided that they don't create a sense of commercialization

144	Interesting concept.
146	Very tourist centered. I don't care about tourists. I'd like this space to feel like a place residents can gather.
148	The sea level is rising, and responding sooner rather than later makes sense! There are cracks in the current facilities. These things require maintenance. European cities have lots of people working to maintain sidewalks and such things constantly, it is not a periodic thing.
149	This seems pretty useful especially given the impending issues related to climate change. I would be more open to these changes that completely gutting KP. Mist ring I could take or leave, but overall spirit of the riverwalk modernization seems compelling in general.
156	Yes to accessibility and raised above flood level and native plants, though the city probably can't afford to keep them alive. The walkway across memorial is good. Doubtful about the new design of the riverwalk because I like the current traditional design.
157	Safety is key!!
160	The Riverwalk is a nice and inviting place. Spending public tax money here doesn't seem like we'll spend public dollars.
162	Raising the level of riverwalk is an excellent idea. I would hope that the restaurant space on the north side of the river can remain, but in general it would be great to make the walk feel more like a part and less like a sidewalk.
164	Reconsider this.
166	It's fine but there's so much more to do
169	Maintain the existing riverwalk, instead of breaking the connection from the walk to the river by raising the walk 11' and ruining the character with flimsy chain link looking railings.
181	I'd say upgrade waterplace park is fine cause i know the water levels keep rising
182	Love the basin ideas Only reason that this is rated less than the first two questions is because the Kennedy plaza is deplorable and needs attention immediately
185	Make a better - user friendlier - web site.

ResponseID	Response
187	I would like to know more about the Riverwalk Modernization. I'm not sure what it entails. How will it impact Waterfire?
190	The fence looks like cheap chainlink in the rendering and the mist ring is such a terrible idea. Expensive, doesn't look great, and you don't get a choice if you're a pedestrian whether to interact with it or not if it's always on it will get blown onto the riverwalk and people will avoid the riverwalk to avoid getting wet. This is a downtown not a waterpark. If people want a waterpark they can visit the water feature in the kennedy plaza ice rink redesign.
194	If current tunnel is removed, how will people using the proposed new food court get to Riverwalk
195	I do like the forward thinking regarding sea level rise, but the current river walk is beautiful and this just seems wasteful to totally redo. I also think the renderings have that sterile almost IKEA sensibility.
202	To keep Waterside Park viable, the raising of walkway levels is a critical improvement. The bridge connecting Waterside Park to Burnside Park with reinforce the current tenuous connection between the two public spaces. There need to be a more robust fund to create programming to activate the park.
205	I think it has a lot of good pieces - I like that it connects more towards the city center via an above ground connection and that it steps down more gradually so it doesn't feel as channelized. The wildness would be a nice addition to PVD. However, it still feels disconnected from the water. Sea level rise will be gradual, so why not have the steps go down lower in the meantime so people can actually get right to the edge of the river?
208	As I had previously mentioned, this aspect of the redesign needs some serious work. Walkways are tough, and need to be more ADA compliant, for sure. But moving them away from the water is a bad idea. Drug use along those walkways is out of control, so we need to open up the entire area and not have it so isolated, somehow. The mist ring? Awful. How are we supposed to utilize the river/basin with mist and walkways across the water? That's a public waterway, you can't obstruct access.
209	Deal with the river walk, fix the basin area, deal with sea level rise, source beautiful fencing & connect it to the rest of the river walk so it respects the architecture of the Crawford & College St bridges under the brilliant design of architect Bill Warner who respected & celebrated our history.
213	The river is a wonderful and underutilized attraction.
217	No so sure about the mister- I like the idea of a multisensory experience, but I'm not sure a mister that will be off for 3/4 of the year is a great use of that space. Reminds me of the fountains that are unused most of the year in Providence. Try again.

219	Waterplace definitely needs some lovin'. I think modernizing it has some nice aspects, but the current materials and style should be retained to some degree as they truly represent Providence and its history as the "Renaissance City".
222	I would get rid of the mist ring aspect of the plan
224	This plan seems great to me, and presents less complication than the KP plan.
236	I love walking the riverwalk, but it can be short. I am very excited about connecting more safe paths for pedestrians
243	Love this. I wish you would implement this part of the project first.
244	Riverwalk is *almost* there, but still doesn't have the vibrancy of its counterparts in other cities. We can get there.
255	I like the introduction of plants and landscaping but am worried that the higher riverwalk will not be well shielded from traffic and/or will make the water feel too far away.
258	I see great potential for River Walk in bringing community together and for linking neighborhoods.
261	HELL YES!! So pumped!
263	Eliminate the mist ring and elevated walkway.
264	Be sure to include maintenance!
265	Direct access is good. Widening pathways is important for Waterfire. Additional uses and programming would help.
270	Eliminate the new bridge over Memorial Blvd
274	This is a huge economic driver and brings hundreds of thousands of people Into Providenceour crown jewel. It's beautiful and accessible for all people and I would make this priority #1
278	Areas along the rivers sometimes feel sterile or barren. The chain fence is not appealing.

ResponseID	Response
285	I definitely agree we should raise the riverwalk and invest in its full length as an asset for downtown. As stated above, I do not believe we need an elevated walkway.
293	Heavily support modernizing the riverwalk. It has so much potential and is really only used during waterfire. I like the elevated bridge and think if it is similar to the new pedestrian bridge it will be very popular and a great community space.
300	What are you going to do about the drug addicts in Kennedy Plaza? Are they going to go to that social space you have set aside for social services?
305	The riverwalk is one of the greatest things to happen in the past 50 years in this city. It is internationally recognized for its success and is beloved by the people for the old world charm it brings to our city. If it isn't broke, don't fix it. The Riverwalk may eventually need to be raised due to global warming, but let's wait to invest that money until we have a better picture of what that will look like and what needs will be. Right now, all the riverwalk needs is some investment in decaying infrastructure. Rebuilding the riverwalk as proposed with even cheaper materials (wooden boardwalk and ugly wire fence?) would result in more frequent and expensive maintenance needs in the long term while degrading the experience of the place. The firm that conceptualized this has no clue about Providence. The wooden boardwalk and ugly metal fence would be a huge downgrade from what we have now, and are both cheap materials that will decay far quicker than the wonderful cobblestone and bollards that currently line the riverfront. Please don't destroy one of our cities best assets. Let's start saving up now so we can afford to raise the riverwalk when it IS actually necessary with enduring materials that will last for generations
306	I'm not so sure about the mist ring.
310	Maybe also create a plan to minimize trash in the river.
322	The mist ring is a stupid waste of money.
329	I would like this area to be in good shape but think it can wait to focus on other areas of the city first. I also really do not like the fountain in the turning basin at all.
330	Again, lots of greenery and things to draw people to utilize the river walk. Vendors (food/wine/beer).
339	The idea of spending millions of dollars to rebuild & raise a few pedestrian walkways against rising sea levels, when that money should clearly be going to beefing up the one structure that protects ALL OF DOWNTOWN against rising sea levels makes no sense! Please explain to me why the planning department would even consider such a ridiculous, ineffective use of funds! Thank you

341	Take a couple of lanes out of Memorial to expand pedestrian and cafe space on the south side of the river.
356	Love the plan for RI native plants. Non-RI native plants can also be included. I'd love to learn more about your plans.
357	Where is the integration of sea level rise which will consume this space in the event of a 100 year flood/projections for the next 50 years? Is there a way to incorporate ecological restoration of the river by using native plants? Please see here to know the history of the space you are working in which will undoubdetly affect the future https://artinruins.com/property/covebasin-and-waterplace/ and please consult this tool from URI https://stormtools-for-beginners-crc-uri.hub.arcgis.com/ to incorporate a flood mitigation strategy with the basin. The case of 7ft sea level rise will consume this space and that should be considered if it isnt. levies, bioswales, natural runoff filtration and watershed return should be implemented to some degree, as welll as emergency access points. There is plenty of local talent that could create these with native plants at low cost to help stimulate local economy and provide jobs. There are community ag groups that could do this too.
361	This is a bad idea, please focus on landscaping, maintenance and providing things to do in the park. Buying municipal kayaks or canoes that residents and tourists could rent would be a way better use of money and bring more people to the park.
362	design beyond waterfire, be able to incorporate increased social use of riverwalk
364	Flooding is bad along the river walk, so something probably should be done to mitigate that.
375	Make it a destination for visitors, residence and parks
376	Some upgrades to the riverwalk could be nice. The mist is silly. Connecting it to Burnside could be nice too.
379	Don't touch Kennedy Plaza. Hopefully this project is shut down. What a waste of time.

ResponseID	Response
381	Riverwalk modernization is the most beneficial part of the project. The sidewalk network needs to be repaired and expanded.
382	Need more information. Is this necessary right now? Raising sidewalk so much will really change the sense of connection to the water and separation from the traffic. It would markedly harm the pedestrian experience.
390	I think the Riverwalk is alright as-is, already inviting to pedestrians, whereas Kennedy plaza really needs to be reimagined to make it inviting.
395	Having a place to enjoy the river will be great for residents and tourism alike
403	maintain the 'look' if possible keep true to the RENAISSANCE mantra ELIMINATE THE WATER MIST RING Why would you install a water mist ring in a locationwhere peple walk, where WATERFIRE operates? Adjacent to restaurants. Where is the water sourced from?? Dirty Providence River?? ALSO please include a DREDGE of the RIVER BED especially in the areas that FLOOD
404	Seems good, I like the thoughtfulness about water level rise. I think it's not entirely mindful of other service and infrastructure needs that could be addressed. But overall unproblematic
408	I am not sure about the stage and what it will be used for other than how it is currently used. I am more concerned about safety, noise and keeping it clean.
411	N/A
417	The Riverwalk is deteriorating, flooding regularly, awash in drugs, and is has a lot of graffiti. We need an ongoing budget for policing and for maintenance going forward.
419	Riverwalk looks nice. I am worried though that the water will feel too low.
420	I am also confused why the elevated walkway crosses both Exchange Terrace and Memorial Boulevard at street level but is raised above a parking lot. Shouldn't it be raised above traffic and at ground level where there is none?
427	great that it will become green; too many hard edges now
431	what can it change
432	im just excited
433	didn't hear about it

436	make sure is gated well so people can't jump over
437	idk
445	I have nothing else to say, it's all great.
452	I love the ideas for the RiverWalk. The RiverWalk path is really dull right now and I would like to see what could be done with it to make it more inviting and prettier.
455	No comment

INDEX

SHEET NO.

SV-100 OVERVIEW PLAN SV-100 WP-1 SURVEY PLAN SV-100 WP-2 SURVEY PLAN

SV-100 KP-1 SURVEY PLAN SV-100 KP-2 SURVEY PLAN UAV GROUND CONTROL POINT TABLE- ARUP

PT. #	NORTHING	EASTING	EL.	GCP	1			
1	270479.8384	351847.9684	19.91	GCP.1				
2	270250.3723	352035.7666	8.71	GCP.2				
3	269951.9967	352018.7641	13.61	GCP.3				
4	270418.6309	352205.5144	9.75	GCP.4	TARON IN ACAIT TAE	1.5		
5	270495.1166	352320.4051	10.98	GCP.5	MONUMENT TAE	3LE		
6	270382.4438	352316.9135	12.27	GCP.6	DESCRIPTION	NORTHING	EASTING	ELEVATION
7	270383.7960	352407.5005	12.80	GCP.7	RIHB.1 FND &	271286.0620	351907.5240	21.96
8	270741.6975	351565.9773	18.63	GCP.8	RIHB.2 FND &			
9	270950.8665	351418.1078	10.10	GCP.9	HELD	271268.8931	351905.1947	22.20
10	270916.9387	351706.4644	14.34	GCP.10	RIHB.3 FND &	271094.4906	351997.4323	19.56
11	270886.1340	352006.3279	12.92	GCP.11	HELD	27 100 11 1000	001337.4020	13.00
12	271081.5143	351998.6262	18.73	GCP.12	DH.1 FIND &	271037.3271	352545.6430	10.92
13	271068.1259	351998.3131	17.96	GCP.13	DH.2 FND & HELD	071001 1000	250402 4240	12.06
14	270838.6892	351678.6932	17.76	GCP.14	DH.2 FND & HELD	271001.1209	352493.4319	13.06
15	271214.6846	351404.9143	37.40	GCP.15	DH.3 FND & HELD	270365.5183	352472.0317	7.83
16	271148.0813	352248.9373	10.29	GCP.16	RIHB.4 FND &	270692.6019	352116.0895	13.03
17	271013.0856	352514.5629	12.32	GCP.17	HELD			

STATE OF RHODE ISLAND



CITY OF PROVIDENCE

SURVEY PLAN UNIFIED VISION FOR DOWNTOWN PUBLIC SPACES WATER PLACE PARK & KENNEDY PLAZA

30% DESIGN SURVEY

3-3-2021

COORDINATE SYSTEM IS RI3800 / NAVD 88.

TOPOGRAPHY IS MIX OF ON GROUND SHOTS, RECORD DATA AND UAV DATA.

LIMITED TOPOGRAPHY SHOWN- PROJECT AOC ONLY ORTHO PHOTO PER PRIVATE UAV FLIGHT. SEE UAV NOTE FOR DETAILS

ELECTRIC - SURFACE FEATURES SHOWN PER FIELD DATA & PLAN REFERENCES. SUBSURFACE FEATURES SHOWN APPROXIMATELY PER PLAN REFERENCES

SUBSURFACE SURVEY AND INVERT MEASUREMENT, ETC. THE PURPOSE OF THIS SURVEY IS TO AID IN 30% DESIGN FOR THE PROVIDENCE UNIFIED VISION PROJECT. THIS SURVEY IS NOT SUITABLE FOR FINAL

11. ABUTTING PROPERTY LINE AND PROPERTY LINE INFORMATION SHOWN PER CITY OF PROVIDENCE GIS AND TAX ASSESSORS

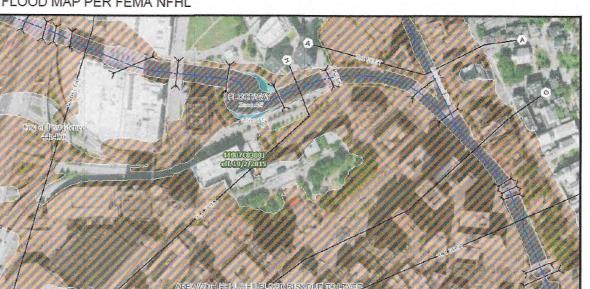
12. ELEMENTS FORMING LIMITS OF OCCUPATION ARE AS SHOWN (CURBS, FENCES, WALLS, ETC) SITES ABUT PUBLIC ROW AS SHOWN.

NO.	PLAT	LOT	BOOK	PAGE	OWNER OF RECORD	PLAN	DEED	DATE FILED
1	19	131	3656	317	CITY OF PROVIDENCE		X	10/20/1997
2	19	140	12223	316	CITY OF PROVIDENCE		X	11/30/2018
3	19	129	N/A		RHODE ISLAND COMMUNITY FOUNDATION		X	
4	19	13	12675	207	PROVIDENCE PUBLIC BLDG AUTHORITY		X	3/26/2020
5	19	31	N/A		CITY OF PROVIDENCE		X	
6	19	7	N/A		PROVIDENCE PUBLIC BLDG AUTHORITY		X	
7	19	130	N/A		FIFTY SIX EXCHANGE TERRACE ASSOCIATES LP		X	
8	19	33	N/A		STATE OF RHODE ISLAND		X	
9	19	138	N/A		LLC UNION STREET PARKING		X	and a property of the second second
10	19	102	N/A		WATER PLACE LLC		X	
11	19	103	N/A		BLUE BELL CITIZENS PLAZA LLC		X	
12	19	114	7731	273	CAPITAL PROPERTIES INC		X	12/5/2005
13	19	118	7731	273	CAPITAL PROPERTIES INC		X	38691
14	19	109	12247	102	TFG PROVIDENCE CENTER PROPERTY LLC		X	12/27/2018
15	19	137	10825	282	PROVIDENCE LLC ARC HOSPITALITY		X	41724
16	19	139	7881	48	36 EXCHANGE TERRACE LLC		X	2/21/2006
17	19	49	N/A		GP CHAMBER REALTY LLC		X	
18	20	18	9034	124	ROBERT DAY LLC		X	3/12/2008
19	20	16 REVO	9883	134	70 KENNEDY PLAZA INVESTORS LLC		X	40527
20	20	14	8993	234	HIGH ROCK WESTMINSTER STREET		X	1/31/2008
21	20	15	10961	272	68 FULTON LLC		X	41906
22	20	12	10789	47	WESTMINSTER PARTNERS LLC		X	1/30/2014
23	20	8	10788	343	30 KENNEDY PARTNERS LLC		X	41669
24	20	5	12131	301	PROVIDENCE FINANCIAL PLAZA LLC		X	8/20/2018
25	20	35	N/A		UNITED STATES OF AMERICA		X	
26	20	33	N/A		SMITH KEEN PARTNERS		X	
27	19		50	10	CAPITAL CENTER REVISED DEC. 1982, SHEET 1 OF 5	X		1986
28	19				CAPITAL CENTER AMENDED APRIL. 1986, SHEET 2 OF 3 SET "B" FROM PROVIDENCE DOT SURVEY DIVISION	X		6/8/1905
29	19				CAPITAL CENTER AMENDED APRIL. 1986, SHEET 1 OF 3 SET "B" FROM PROVIDENCE DOT SURVEY DIVISION	X		1986
30	19	102	79	1	PLAN FOR INTERCONTINENTAL FUND IV WATER PLACE, LLC.	Χ		1/11/2008
31	19		PLAT 2526	1	RHODE ISLAND DEPARTMENT OF TRANSPORTATION PLAT	X		36245
32	19		PLAT 2126	1	RHODE ISLAND DEPARTMENT OF TRANSPORTATION PLAT	X		9/1/1987
33	19		CARD 11A	1	UNION STATION SUBPARCEL II ASSOCIATES	X		32129
34			CARD 11	1	UNION STATION SUBPARCEL II ASSOCIATES	Χ		12/18/1987
35			CARD 10C		CAPITAL CENTER AMENDED APRIL. 1986, SHEET 1 OF 3 SET "B" FROM PROVIDENCE DOT SURVEY DIVISION	X		1982
36			CARD 10B		CAPITAL CENTER REVISED DEC. 1982, SHEET 3 OF 5 FROM PROVIDENCE DOT SURVEY DIVISION	X		6/4/1905
37			CARD 10A		CAPITAL CENTER REVISED DEC. 1982, SHEET 2 OF 5 FROM PROVIDENCE DOT SURVEY DIVISION	X		1982
38			CARD 10D		CAPITAL CENTER REVISED DEC. 1982, SHEET 5 OF 5 FROM PROVIDENCE DOT SURVEY DIVISION	X		6/4/1905

NO.	PLAN TITLE	DATE FILED					
ELECT	RIC						
1	"DORRANCE STREET, FOUNTAIN ST. TO WASHINGTON ST. SHOWING LOCATION OF CONDUIT " PREPARED BY ELECTRIC LIGHTING COMPANY	6/18/2004					
2	"EXCHANGE STREET SHOWING LOCATION OF CONDUIT" PREPARED BY THE NARRAGANSETT ELECTRIC COMPANY						
3	"EXCHANGE TERRACE SHOWING LOCATION OF CONDUIT, FRANCIS ST. TO EXCHANGE ST." PREPARED BY THE NARRAGANSETT ELECTRIC COMPANY						
4	"FINANCE WAY SHOWING LOCATION OF CONDUIT" PREPARED BY THE NARRAGANSETT ELECTRIC COMPANY	6/4/2004					
5	"NATIONAL GRID MAPS & RECORDS N.E." PREPARED BY NATIONAL GRID	11/19/2020					
6	FRANCIS STREET, WEST EXCHANGE ST. TO WOONASQUATUCKET RIVER SHOWING LOCATION OF CONDUIT" PREPARED BY NATIONAL GRID	2/15/2006					
7	"KENNEDY PLAZA, DORRANCE STREET TO ARCADE STREET SHOWING LOCATION OF CONDUIT" PREPARED BY NARRAGANSETT ELECTRIC LIGHTING COMPANY	NO DATE					
8	"MEMORIAL BLVD. SHOWING LOCATION OF CONDUIT, FRANCIS ST. TO 650 FT. EAST OF FRANCIS ST." PREPARED BY NATIONAL GRID	1/9/2006					
9	"CANAL STREET, ELIZABETH ST. TO WASHINGTON ST. SHOWING LOCATION OF CONDUIT" PREPARED BY NATIONAL GRID	10/4/2017					
SEWE	R & STORMWATER						
10	"WESTMINSTER AND WEYBOSETT STS." PREPARED BY CITY ENGINEER'S OFFICE SEWER DEPARTMENT	11/5/1897					
11	"COVE AND DORRANCE STREETS" PREPARED BY CITY ENGINEER'S OFFICE SEWER DEPARTMENT	2/6/1893					
12	"GASPEE ST." PREPARED BY CITY ENGINEER'S OFFICE SEWER DEPARTMENT	NO DATE					
13	"EXCHANGE PLACE" PREPARED BY CITY ENGINEER'S OFFICE SEWER DEPARTMENT DRAWER 174 SHEET 21	9/11/1906					
14	PLAN PREPARED BY CITY ENGINEERS OFFICE SEWER DEPARTMENT. DRAWER 157 SHEET 16	6/8/1898					
GAS							
15	NATIONAL GRID GIS PLANS DATED 1-13-2021						
16	"FRANSIS ST., EXCHANGE ST, WASHINGTON ST& FULTON ST. PROVIDENCE 1"						
17	"FRANSIS ST., EXCHANGE ST, WASHINGTON ST& FULTON ST. PROVIDENCE 1"						
WATE							
18	KENNEDY PLAZA INTERMODAL TRANSIT CENTER- SKETCH PROVIDED BY WATER DEPT 1-19-21	2001					
19	ICE RINK 1 & 2 SKETCHES PROVIDED BY WATER DEPT. 1-19-21. NO TITLE INFORMATION PROVIDED						
20	PROVIDENCE WATER DEPARTMENT GIS SKETCH						
GIS IN	FORMATION						
21	CITY OF PROVIDENCE STORM DRAIN GIS SHAPEFILE						
22	NARRAGANSETT BAY COMMISION SEWER GIS SHAPEFILE						
23	CITY OF PROVIDENCE WATER DEPARTMENT GIS SHAPEFILE						
VERIZ	ON & COX COMMUNICATIONS						
24	REQUEST DENIED: PROPRIETARTY INFORMATION NOT RELEASED						
MISCE	LLANEOUS						
25	"DOWNTOWN SIDEWALKS ADA ACCESSIBILITY IMPROVEMENTS, CONTRACT 3" PREPARED BY RHODE ISLAND DEPARTMENT OF TRANSPORTATION & BRYANT ASSOCIATES	3/25/2016					







UAV SL	JRFACE TOLERA	ANCE TEST- ARUI	P VIA PIX4D	(4)	
LIIMITE	D SAMPLE SEL	ECECTED POINT	S FOR T-2 TOPO		
POINT#	DESCRIPTION	SURVEYED EL.	SURFACE EL.	VERTICAL DIFFERENCE	HORIZONTA DIFFERENC
10	GCP.10	14.34	14.38	-0.04	0.05
1011	DMH.5	12.83	12.90	-0.07	0.01
170	1X1CB	3.22	3.28	-0.06	0.06
175	ELHH	3.77	3.89	-0.12	0.15
37	ELEC PAD	4.98	5.10	-0.12	0.15
66	MH.1	9.28	9.31	-0.03	0.02
339	ELEC-HH	13.26	13.34	-0.08	0.06
569	ELMH	9.61	9.68	-0.07	0.1
			Std. Dev.	0.033	0.054
			Root Mean Square Error	0.226	0.255



PROJECT AREA OF CONCERN

USING PHOTOGRAMMETRY SOFTWARE AND TESTED AGAINST FOUR GROUND CONTROL POINTS WITH AN AVERAGE VERTICAL ACCURACY OF .08 ft. THERE MAY BE ANOMALIES IN THE DATA AND SHOULD BE FIELD VERIFIE

PRIOR TO CONSTRUCTION. ORTHOGRAPHY PHOTO DEVELOPED BY DATA AND PICTURES COLLECTED BY THE UAV TO ACCURATELY INTERPOLATE ANI

UAV FLOWN BY FAA CERTIFIED PILOT AND WAS PROPERLY INSURED DURING FLIGHT

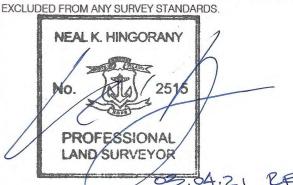
CERTIFICATION THIS SURVEY HAS BEEN CONDUCTED AND THE PLAN HAS BEEN PREPARED PURSUANT TO 435-RICR00-00-1,9 OF THE RULES AND REGULATIONS ADOPTED BY THE RHODE ISLAND STATE BOARD OF REGISTRATION FOR PROFESSIONAL LAND SURVEYORS ON JANUAR 15тн___, 2021, AS FOLLOWS:

LIMITED CONTENT BOUNDARY SURVEY -CLASS I DATA ACCUMULATION SURVEY - CLASS III

TOPOGRAPHIC SURVEY T-2 ACCURACY (§1.9.9(D)) **

THE PURPOSE FOR THE CONDUCT OF THE SURVEY AND FOR THE PREPARATION OF THE PLAN IS AS FOLLOWS: TO CONDUCT A METES AND BOUNDS SURVEY AND LOCATED PERTINENT SITE FEATURES AND SITE TOPOGRAPHY FOR USE IN 30% DESIGN.

* LIMITED CONTENT BOUNDARY SURVEY NOT PREFORMED ON PLAT 20 LOT 31- KENNEDY PLAZA. DEEDS COULD NOT BE OBTAINED THROUGH LAND EVIDENCE RESEARCH. NEI RECOMMENDS TITLE SEARCH TO BE PREFORMED TO OBTAIN TITLE RECORDS FOR PROPERTY. PROPERTY LINES SHOWN PER CITY OF PROVIDENCE GIS ONLY AND EXCLUDED FROM ANY SURVEY STANDARDS.



NEAL HINGORANY REG. 2515

COA: A38

REVISIONS: ELUR NOTE ADDED, 70"SEWER LINE RE-ADDED, DATED 3-3-2021



Civil - Survey Structural Environmental Design 3102 East Main Road, Portsmouth RI 02871 www.nei-cds.com

Tel. 401.683.6630

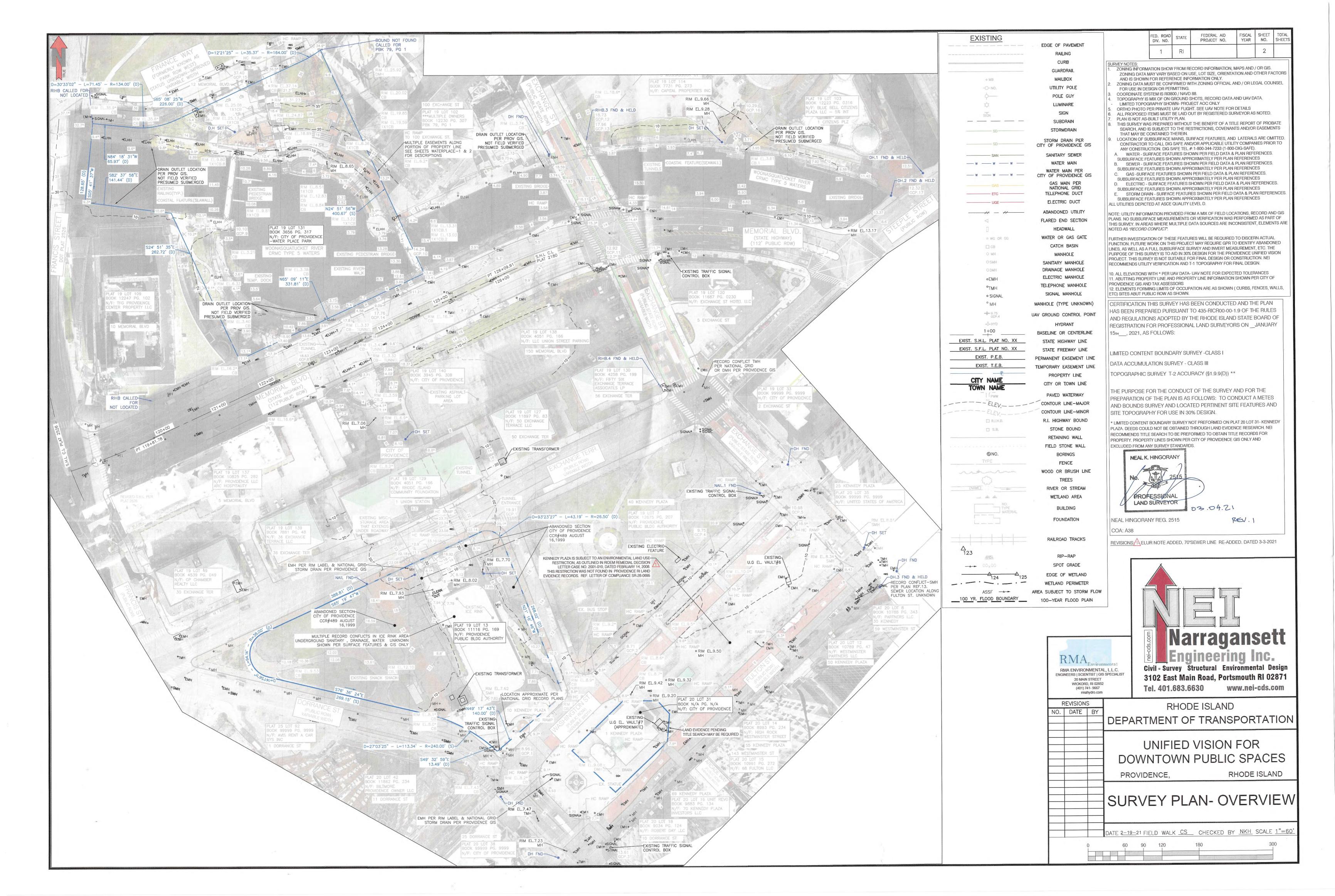
THIS PLAN SHALL BE FILED UNDER

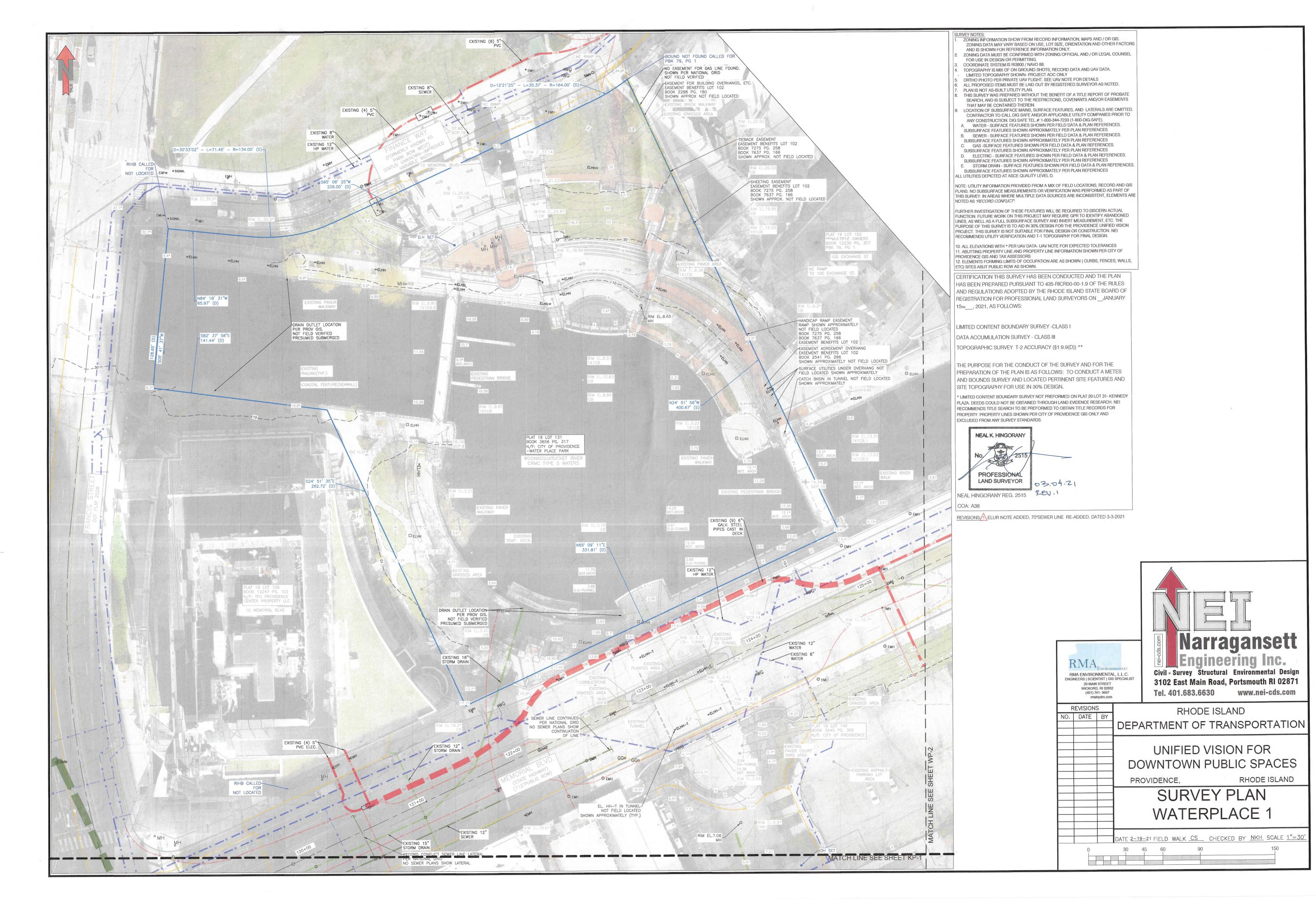
RMA ENVIRONMENTAL, L.L.C. ENGINEERS | SCIENTIST | GIS SPECIALIST

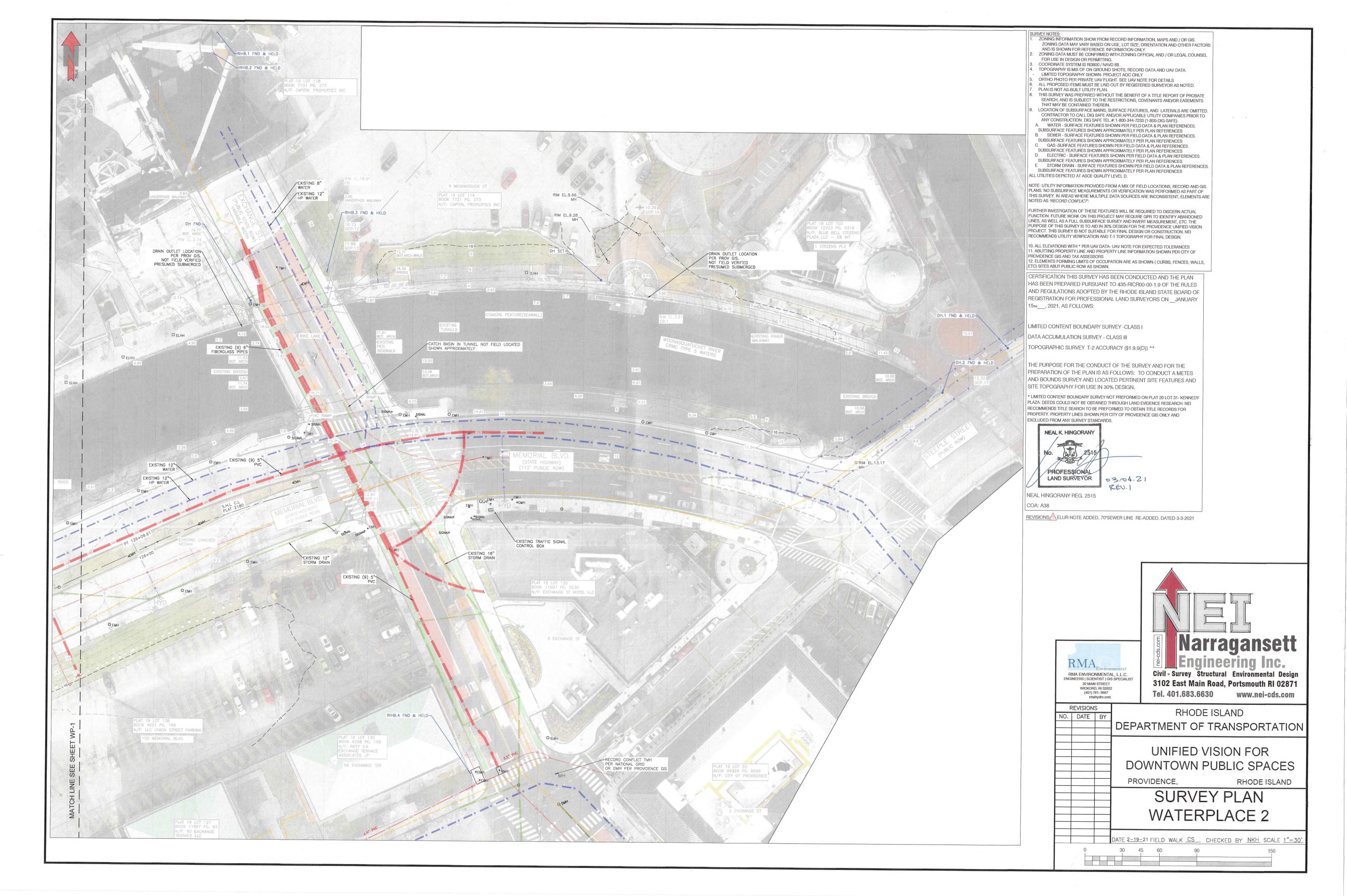
> 20 MAIN STREET WICKORD, RI 02852

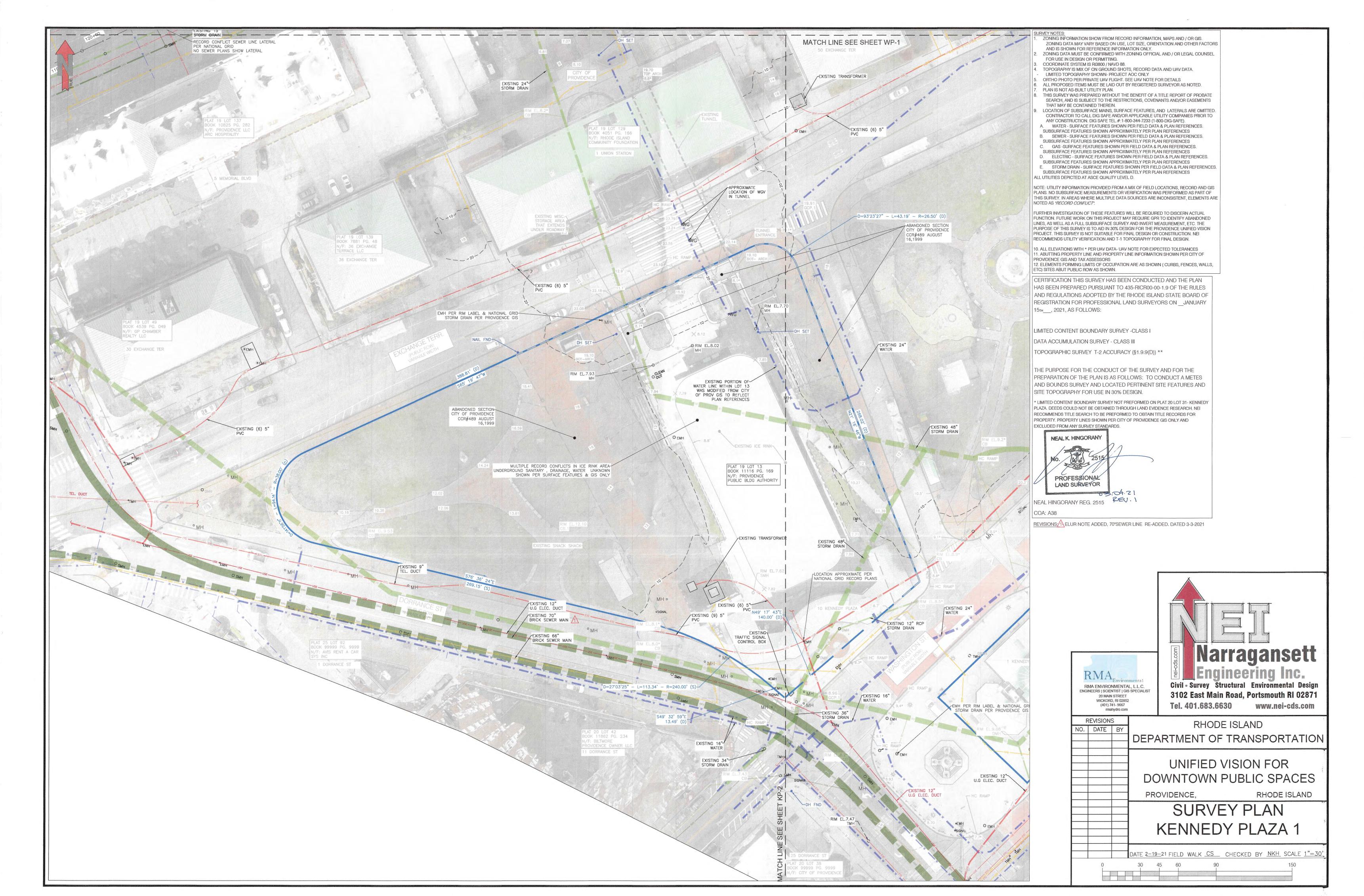
(401) 741-9667 rmahydro.com

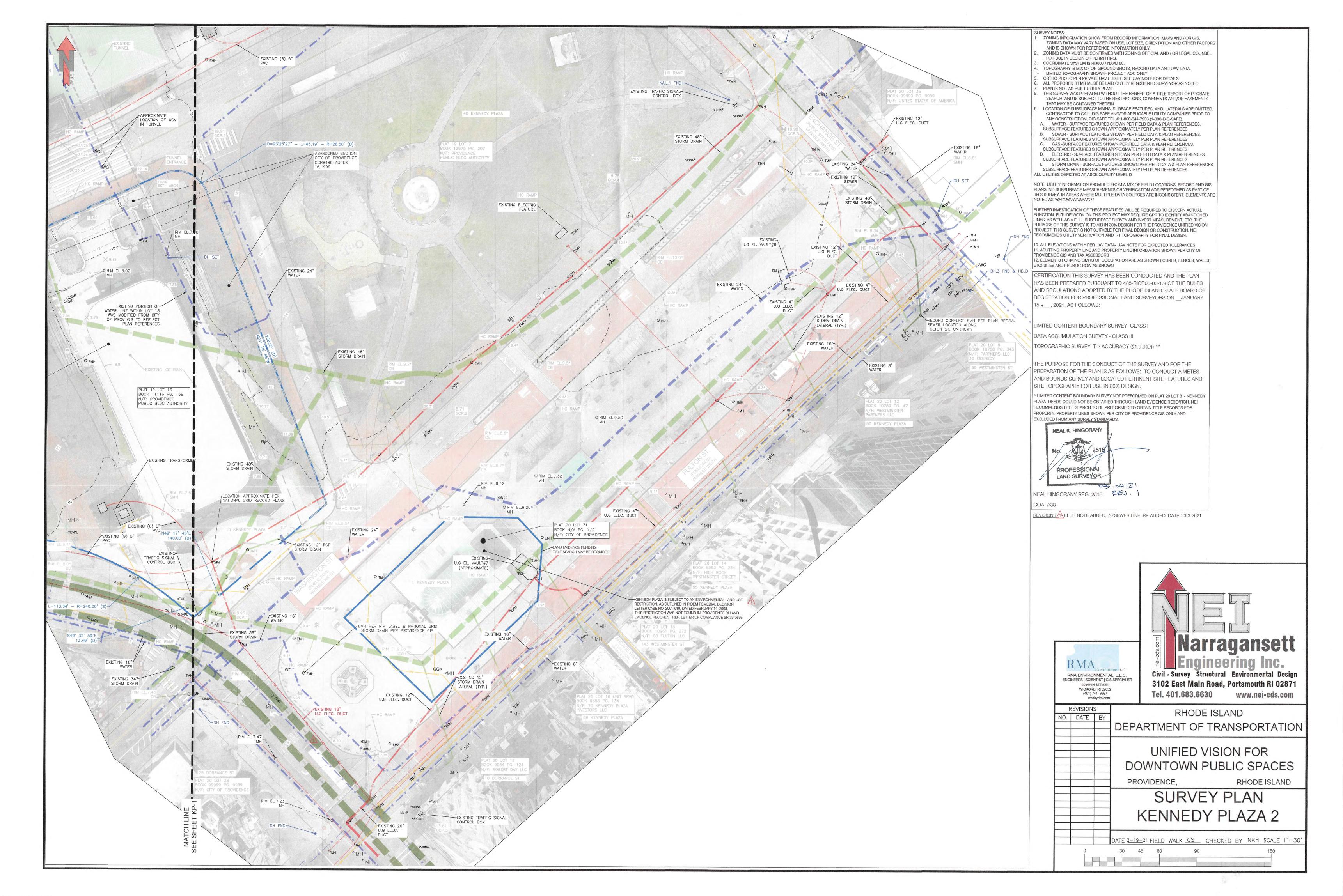
-U.S. ROUTE 1 -FRANCIS STREET -FINANCE WAY -STILLMAN STREET -MEMORIAL BOULEVARD -EXCHANGE TERRACE -EXCHANGE STREET -WASHINGTON STREET -DORRANCE STREET -FULTON STREET -STEEPLE STREET











Providence Unified Vision

Welcome Center
Big Shade
Exchange Terrace Storage
Youth Park Café
New Elevated Crossing Platform
Water Park Basin Bridge Expansion
Rink Building
Rink
Water Feature at Kennedy Plaza
Water Feature at the Waterpark Basin
Greater Kennedy Plaza
Digital Pilons
Riverwalk
Providence, RI

30% Design Document Estimate June 11, 2021

Client

ARUP
60 State Street, 10th Floor
Boston, MA 02109
www.ARUP.com

Cost Estimator:

Miyakoda Consulting Inc.
PO Box 120731
Boston, MA 02111
(617) 799-5832



Providence Unified Vision

Providence, RI

Introduction

Basis For The Estimate:

- 1 The project consists of a reuse of the riverwalks in Providence Rhode Island
- 2 This project will be built in multiple phases, but the exact phasing and time frame are still evolving. Note, all prices are today's dollars with information on the effect with escalation.

Project Particulars:

- **1** Estimate is based on 30% Design Documents along with conversations with the design team. The following are the documents used to produce this estimate:
 - 1. KP Update Material from Ultramoderne, received on May 26, 2021 (no date printed on design)

Assumptions:

- 1 The project will be publicly bid built. At this present time, it is assumed General Contractor will build this project. And it will be multiple contracts.
- 2 Our costs assume that there will be competitive bidding in all trades and sub-trades i.e. at least three bids per trade or sub-trade
- **3** Unit rates are based on current dollars (prevailing wage rates)
- 4 Design Contingency is an allowance for unforeseen design issues, design detail development and specification clarifications
- **5** General Conditions and Requirements value covers Construction Manager's site office overhead and on-site supervision
- **6** Fee markup is calculated on a percentage of direct construction costs.
- 7 Escalation has been included, on a running basis
- **8** Digital Pylons Assumptions:
 - Estimates include final design, production, fabrication, systems integration, software implementation and content template development.
 - Projection Mapping capability power, data and mounting infrastructure to be included at top of Digital Pylon Towers. Projection equipment not included, assumed to be rented on a per event basis.

Exclusions within the Estimate:

- 1 Design fees and other soft costs
- 2 Interest expense
- **3** Owner's project administration
- **4** Construction of temporary facilities
- 5 Printing and advertising
- **6** Specialties, loose furnishings, fixtures and equipment beyond what is noted
- 7 Site or existing condition surveys and investigations
- **8** Hazardous Abatement
- 9 Rock excavation
- **10** Maintenance and operational fee
- **11** Maintenance and operational fee for digital, low voltage, infrastructure, etc
- **12** Closing Washington Street and creating new operations within the city.

START OF CONSTRUCTION MIDPOINT OF CONSTRUCTION INCLUDED

Building Kennedy Including Riverwalk

\$120,468,150

TO

\$160,624,200



				TOTAL	ESCALATIO	N PER YEA	R	
Riverwalk Providence Rhode Island Unified Vision	ıte - 202	- 2021 \$	2022	2023	2024	2025	2026	2027
Pages: Welcome Center; Big Shade; Exchange SIZE (GSF)	Ä	SF						
	Esti	\$/6						

				Est	9/\$						
	T	Gross Flo	or Area								
	Location	Main Building	Site Area								
Page 7	Rink Site		44,900 GSF	\$398,739	· ·	\$416,700	\$433,400	\$450,700	\$468,700	\$487,400	\$506,900
Page 12	Site Utilities Infrastructure			\$1,447,925	4.95 \$/GSF	\$1,513,100	\$1,573,600	\$1,636,500	\$1,702,000	\$1,770,100	\$1,840,900
Page 17	Rink Building & Rink		23,033 GSF	\$4,451,297	193.26 \$/GSF	\$4,651,600	\$4,837,700	\$5,031,200	\$5,232,400	\$5,441,700	\$5,659,400
Page 22	Kennedy Plaza Surfacing, Utilities & Lighting		225,110 GSF	\$15,609,067	69.34 \$/GSF	\$4,077,900	\$4,241,000	\$4,410,600	\$4,587,000	\$19,082,100	\$19,845,400
Page 28	Water Feature at Kennedy Plaza			\$3,447,921		\$3,603,100	\$3,747,200	\$3,897,100	\$4,053,000	\$4,215,100	\$4,383,700
Page 32	Liner Building	3,684 GSF		\$4,160,884	1,129.45 \$/GSF	\$2,174,100	\$2,261,100	\$4,702,900	\$4,891,000	\$5,086,600	\$5,290,100
	RIPTA Shelter Station Demolition			\$210,000		\$219,500	\$228,300	\$237,400	\$246,900	\$256,800	\$267,100
Page 45	Kennedy Plaza Rink Paving			\$1,336,960		\$1,397,100	\$1,453,000	\$1,511,100	\$1,571,500	\$1,634,400	\$1,699,800
Page 49	Welcome Center	7,941 GSF		\$5,366,314	675.77 \$/GSF	\$5,607,800	\$5,832,100	\$6,065,400	\$6,308,000	\$6,560,300	\$6,822,700
Page 66	Big Shade	1,488 GSF		\$3,214,370	2,160.19 \$/GSF	\$3,359,000	\$3,493,400	\$3,633,100	\$3,778,400	\$3,929,500	\$4,086,700
	IT Distribution			\$673,423		\$703,700	\$731,800	\$761,100	\$791,500	\$823,200	\$856,100
Page 83	Learn Island		5,828 GSF	\$788,835	135.35 \$/GSF	\$824,300	\$857,300	\$891,600	\$927,300	\$964,400	\$1,003,000
						_					
	Monument Dismantling/Remounting (ALLOV	VANCE)		\$500,000		\$522,500	\$543,400	\$565,100	\$587,700	\$611,200	\$635,600
Page 88	Big Shade Canopy			\$2,577,418		\$2,693,400	\$2,801,100	\$2,913,100	\$3,029,600	\$3,150,800	\$3,276,800
	Kennedy Plaza Venue Infrastructure			\$538,738		\$563,000	\$585,500	\$608,900	\$633,300	\$658,600	\$684,900
	Kennedy Plaza AV Equipment			\$323,243		\$337,800	\$351,300	\$365,400	\$380,000	\$395,200	\$411,000
	Kennedy Plaza Street Lighting (w/Sitework f	or KP Estimate)									
	New Vegetation (Outside the Island w/ Sitew	ork for KP Estima	-								
Page 94	Meet Island		15,422 GSF	\$1,498,236	97.15 \$/GSF	\$1,565,700	\$1,628,300	\$1,693,400	\$1,761,100	\$1,831,500	\$1,904,800
Page 99	Shade Island		3,790 GSF	\$493,080	130.10 \$/GSF	\$515,300	\$535,900	\$557,300	\$579,600	\$602,800	\$626,900
Page 104	Meadow Island		3,218 GSF	\$505,898	157.21 \$/GSF	\$528,700	\$549,800	\$571,800	\$594,700	\$618,500	\$643,200
Page 109	Hang Island		5,277 GSF	\$655,808	124.28 \$/GSF	\$685,300	\$712,700	\$741,200	\$770,800	\$801,600	\$833,700
_	Eat Island		6,639 GSF	\$1,102,869	166.12 \$/GSF	\$1,152,500	\$1,198,600	\$1,246,500	\$1,296,400	\$1,348,300	\$1,402,200
_	Overlook Island		3,733 GSF	\$438,013	•	\$457,700	\$476,000	\$495,000	\$514,800	\$535,400	\$556,800
Page 124		300 GSF	,		2,531.40 \$/GSF	\$793,600	\$825,300	\$858,300	\$892,600	\$928,300	\$965,400
_				\$979,507	, .,	\$1,023,600	\$1,064,500	\$1,107,100	\$1,151,400	\$1,197,500	\$1,245,400
	Imagination Center	454 GSF		\$450,312	991.88 \$/GSF	\$470,600	\$489,400	\$509,000	\$529,400	\$550,600	\$572,600
_	Free Space Surface, Vegetation, Lights, Utilitie		22,790 GSF	\$1,196,143	52.49 \$/GSF	\$1,250,000	\$1,300,000	\$1,352,000	\$1,406,100	\$1,462,300	\$1,520,800
_			8,050 GSF	\$946,308	117.55 \$/GSF	\$988,900	\$1,028,500	\$1,069,600	\$1,112,400	\$1,156,900	\$1,203,200
	Exchange Terrace	8,588 GSF	-	\$2,642,845	307.74 \$/GSF	\$2,761,800	\$2,872,300	\$2,987,200	\$3,106,700	\$3,231,000	\$3,360,200
G	Rink Demolition	,		\$161,621	.,	\$168,900	\$175,700	\$182,700	\$190,000	\$197,600	\$205,500
	Free Space Venue Infrastructure			\$235,698		\$246,300	\$256,200	\$266,400	\$277,100	\$288,200	\$299,700
	Free Space AV Equipment			\$323,243		\$337,800	\$351,300	\$365,400	\$380,000	\$395,200	\$411,000
Page 183	New Elevated Crossing Platform	12,500 GSF		\$8,670,685	693.65 \$/GSF	\$9,060,900	\$4,711,700	\$4,900,200	\$9,800,300	\$10,192,300	\$10,600,000
1.60 200	New Vegetation	,		\$673,423		\$703,700	\$365,900	\$380,500	\$761,100	\$791,500	\$823,200
	-0			. ,					• •	,	• •



						TOTAL	L ESCALATION	ON PER YEA	R	
	Riverwalk Providence Rhode Isla	and Unified Vision	te - 202	- 2021 \$	2022	2023	2024	2025	2026	2027
Pages:	Welcome Center; Big Shade; Exchange	SIZE (GSF)	mate	SF						
	Photovoltaic Panels & Support		\$1,077,476	\	\$1,126,000	\$585,500	\$608,900	\$1,217,900	\$1,266,600	\$1,317,300
	Memorial Crossing		\$2,677,399		\$2,797,900	\$1,454,900	\$1,513,100	\$3,026,200	\$3,147,200	\$3,273,100
	Memorial Boulevard Re-Alignment		\$3,500,000		\$3,657,500	\$1,901,900	\$1,978,000	\$3,956,000	\$4,114,200	\$4,278,800
Page 191	Water Park Basin Bridge Expansion	1,950 GSF	\$2,677,399	1,373.03 \$/GSF	\$2,797,900	\$2,909,800	\$3,026,200	\$3,147,200	\$3,273,100	\$3,404,000
Page 198	Water Feature Mist Ring		\$6,801,563		\$7,107,600	\$7,391,900	\$7,687,600	\$7,995,100	\$8,314,900	\$8,647,500
	Water Feature Mist Ring Lighting		\$808,107		\$844,500	\$878,300	\$913,400	\$949,900	\$987,900	\$1,027,400
Page 202	Digital Pilons		\$3,501,795		\$3,659,400	\$3,805,800	\$3,958,000	\$4,116,300	\$4,281,000	\$4,452,200
Page 207	Miscellaneous Demolition		\$441,765		\$461,600	\$480,100	\$499,300	\$519,300	\$540,100	\$561,700
Page 212	Riverwalk Phase 1A	118,911 GSF	\$14,554,842	122.40 \$/GSF	\$15,209,800	\$15,818,200	\$16,450,900	\$17,108,900	\$8,896,600	\$9,252,500
Page 219	Riverwalk Phase 1B	17,887 GSF	\$4,029,664	225.28 \$/GSF	\$4,211,000	\$4,379,400	\$4,554,600	\$4,736,800	\$2,463,100	\$2,561,600
Page 225	Riverwalk Phase 2	18,366 GSF	\$9,505,501	517.56 \$/GSF	\$9,933,200	\$10,330,500	\$10,743,700	\$11,173,400	\$5,810,200	\$6,042,600
	TOTALS	31,271 GSF 231,861 GSF	\$85,290,960		\$89,129,200	\$83,674,300	\$87,021,000	\$99,507,300	\$86,317,600	\$89,770,100
	Year 2022				\$19,581,100					
	Year 2023					\$31,842,800				
	Year 2024						\$13,791,300			
	Year 2025							\$16,214,700		
	Year 2027								\$34,566,900	
	Year 2028									\$17,856,700

\$133,853,500

CONSTRUCTION TOTAL INCLUDING PHASING



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Providence, RI 44,900 GSF

MAIN SUMMARY - GREATER KENNEDY PLAZA RINK AREA

<u>DESCRIPTION</u>			<u>TOTAL</u>	<u>COST/SF</u>
1 Direct Trade Costs With Site				
2 Site Development			\$296,054	\$6.59
3 Direct Trade Cost SubTotal			\$296,054	\$6.59
4 Pricing Contingency	15.00%	\$296,054	\$44,408	\$0.99
5 Trade Cost SubTotal			\$340,462	\$7.58
6 General Conditions	5.75%	\$340,462	\$19,577	\$0.44
7 General Requirements	5.25%	\$360,039	\$18,902	\$0.42
8 Insurance	1.50%	\$378,941	\$5,684	\$0.13
9 Bond	0.65%	\$384,625	\$2,500	\$0.06
10 Permit	0.00%	\$387,125	\$0	\$0.00
11 Fee	3.00%	\$387,125	\$11,614	\$0.26
12 Estimated Construction Cost Total		_	\$398,739	\$8.88



Providence, RI 44,900 GSF

DIRECT COST SUMMARY - GREATER KENNEDY PLAZA RINK AREA

	<u>ELEMENT</u>	<u>TOTAL</u>
11 12	F20 FACILITY REMEDIATION	\$0
13 14	F30 DEMOLITION	\$0
	G10 SITE PREPARATION	\$154,554
17 18	G20 SITE IMPROVEMENTS	\$24,000
19 20	G30 SITE CIVIL/MECHANICAL UTILITIES	\$20,000
	G40 SITE ELECTRICAL UTILITIES	\$97,500
<i>23</i>	TOTAL	<u>\$296,054</u>
25 26	TOTAL	<u>9270,037</u>
27 28		
29 30		
31 32		
33 34		
35 36		
37 38		
39 40		
41 42		
43 44		
45 46		



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Providence Unified Vision Greater Kennedy Plaza

Providence, RI 44,900 GSF

SITEWORK DETAILS - GREATER KENNEDY PLAZA RINK AREA

	<u>DESCRIPTION</u>	QUANTITY	<u>UNIT</u>	<u>UNIT COST</u>	<u>TOTAL</u>
11	F20 FACILITY REMEDIATION				
<i>12</i>					
<i>13</i>	F2010 Hazardous Materials Remediation				
14	Hazmat abatement/Soil Remediation				NIC
15	F20 FACILITY REMEDIATION TOTAL				\$0
16					
<i>17</i>					
18	F30 DEMOLITION				
19					
20	F3010 Structure Demolition				
21	Building demolition				NIC
<i>22</i>	F30 DEMOLITION TOTAL				\$0
<i>23</i>					
24					
25	G10 SITE PREPARATION				
<i>26</i>					
<i>27</i>	G1010 Site Clearing				
<i>28</i>	31 10 00 Site Clearing				
<i>29</i>	Site clearing	1.03	ACRES	\$10,000.00	\$10,300
<i>30</i>	Construction fence, install, maintain, remove & reinstall;	1,055	LF	\$12.00	\$12,660
<i>31</i>	Double construction gate	4	PR	\$2,500.00	\$10,000
<i>32</i>	Temporary construction entrance	2	LOC	\$7,000.00	\$14,000
<i>33</i>	Contractor parking				W/General Con
<i>34</i>	Contractor staging and laydown area	2,245	SF	\$2.00	\$4,490
<i>35</i>	Temp signs	1	LS	\$1,000.00	\$1,000
<i>36</i>	Wash down/re-fueling/parking allowance				W/General Con
<i>37</i>	31 23 19 Dewatering and Drainage				
<i>38</i>	31 25 00 Erosion and Sedimentation Controls				
<i>39</i>	Temporary seed cover	1	AL	\$500.00	\$500
40	Compost sock	317	LF	\$14.00	\$4,431
41	Allow for temporary greeting tent	1	AL	\$10,000.00	\$10,000
<i>42</i>					
<i>43</i>	G1020 Site Demolition and Relocation				
44	02 41 00 Demolition				
<i>45</i>	Saw cut existing pavement	1,055	LF	\$5.00	\$5,275
46					
<i>47</i>	Protection of existing	1	AL	\$5,000.00	\$5,000
48	Protect drain and sewer line	500	LF		Incl above
49	Protect tree	23	EA		Incl above
50					
	PUV Budget 30 Matrix 11 June 2021				nate Rink Site

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Providence, RI 44,900 GSF

SITEWORK DETAILS - GREATER KENNEDY PLAZA RINK AREA

	<u>DESCRIPTION</u>	QUANTITY	<u>UNIT</u>	<u>UNIT COST</u>	<u>TOTAL</u>
51 52 53 54 55 56 57 58 59 60	Remove & dispose Remove drain line Remove control valves Remove surface edging Remove sewer line Remove concrete pad Remove tree Silt sock	1	AL	\$35,000.00	\$35,000 Incl above
61	02 30 00 Building Demolition				G Al
62 63	Building demoltion				See Above
64	G1030 Site Earthwork				
65	Rough grading	4,989	SY	\$1.50	\$7,484
66	Cut and fill	1,663	CY	\$9.00	\$14,967
<i>67</i>	Gravel base	446	CY	\$38.00	\$16,948
<i>68</i>	Temporary parking				NIC
69	Allow for miscellaneous repairs during construction	1	LS	\$2,500.00	\$2,500
70 71 72 73	G10 SITE PREPARATION TOTAL				\$154,554
74	G20 SITE IMPROVEMENTS				
<i>75</i>					
<i>76</i>	G2010 Paving				
77 78	Misc. marking other than above	1	LS	\$1,500.00	\$1,500
79	G2030 Pedestrian Paving				
80	32 13 10 Rigid Paving				NIC
81	Concrete Paving				Different Phase
82 83	G2040 Site Development				
84	G2040.02 Site and Street Furnishes				
85	Signage	1	EA	\$2,500.00	\$2,500
86	Trees, Bushes, Shrubs, Plantings	1	LS	\$10,000.00	\$10,000
87	Miscellaneous site improvements	1	LS	\$10,000.00	\$10,000
88	r	_	-	. :,::::30	. = 2,2 2 3
89	G2050.02 Lawns and Grasses				
	32 92 00 Turfs and Grasses PUV Budget 30 Matrix 11 June 2021 Printed 6/11/2021				NIC nate Rink Site age 10 of 231

Providence, RI 44,900 GSF

SITEWORK DETAILS - GREATER KENNEDY PLAZA RINK AREA

	<u>DESCRIPTION</u>	<u>QUANTITY</u>	<u>UNIT</u>	<u>UNIT COST</u>	<u>TOTAL</u>
91 92	Sod G2050.03 Trees, Plants and Ground Covers				NIC NIC
93 94 95	G20 SITE IMPROVEMENTS TOTAL				\$24,000
96 97 98	G30 SITE CIVIL/MECHANICAL UTILITIES				
99 100	G3010 Water Utilities	1	AL	\$15,000.00	\$15,000
101 102	G3020 Sanitary Sewerage Utilities				
103 104	G3030 Storm Drainage Utilities	1	LS	\$5,000.00	\$5,000
<i>105</i>	G3040 Gas Utilities				
106	33 50 00 Gas Service				
<i>107</i>	Connection to existing gas main				NIC
<i>108</i>	Gas Line Trench				NIC
109					
<i>110</i>	G30 SITE CIVIL/MECHANICAL UTILITIES TOTAL				\$20,000
111					
112					
113	G40 SITE ELECTRICAL UTILITIES				
114					
115	G4010 Site Electrical Utilities				
116	Site lighting	1	AL	\$15,000.00	\$15,000
	Event power and trenching:				
118	1" Pvc, 4#8 UG	500	LF	\$50.00	·
119	Empty conduit	500	LF	\$75.00	\$37,500
<i>120</i>	Site Lighting Controls	1	LS	\$5,000.00	\$5,000
<i>121</i>					
122	Site Utilities	1	LS	\$15,000.00	\$15,000
123					
124	G40 SITE ELECTRICAL UTILITIES TOTAL				\$97,500
125					
126		momer			4001071
127		TOTAL S	SITEWC	ORK SUMMARY	\$296,054
<i>128</i>					



Providence, RI 247,900 GSF

MAIN SUMMARY - GREATER KENNEDY PLAZA UTILITIES

	<u>DESCRIPTION</u>			<u>TOTAL</u>	<u>COST/SF</u>
1	Direct Trade Costs With Site				
2	Site Development		_	\$1,075,050	\$4.34
3	Direct Trade Cost SubTotal			\$1,075,050	\$4.34
4	Pricing Contingency	15.00%	\$1,075,050	\$161,258	\$0.65
5	Trade Cost SubTotal		_	\$1,236,308	\$4.99
6	General Conditions	5.75%	\$1,236,308	\$71,088	\$0.29
7	General Requirements	5.25%	\$1,307,395	\$68,638	\$0.28
8	Insurance	1.50%	\$1,376,033	\$20,641	\$0.08
9	Bond	0.65%	\$1,396,674	\$9,078	\$0.04
10	Permit	0.00%	\$1,405,752	\$0	\$0.00
11	Fee	3.00%	\$1,405,752	\$42,173	\$0.17
<i>12</i>	Estimated Construction Cost Total		_	\$1,447,925	\$5.84



Providence, RI 247,900 GSF

DIRECT COST SUMMARY - GREATER KENNEDY PLAZA UTILITIES

	<u>ELEMENT</u>	<u>TOTAL</u>
11 12	F20 FACILITY REMEDIATION	\$0
13 14	F30 DEMOLITION	\$0
15 16	G10 SITE PREPARATION	\$205,800
17 18	G20 SITE IMPROVEMENTS	\$19,250
19 20	G30 SITE CIVIL/MECHANICAL UTILITIES	\$700,000
21 22	G40 SITE ELECTRICAL UTILITIES	\$150,000
23 24	TOTAL	<u>\$1,075,050</u>
25 26		2210701000
27 28		
29 30		
31 32		
33 34		
35 36 37		
38 39		
40 41		
42 43		
44 45		
46		



Providence Unified Vision Greater Kennedy Plaza

Providence, RI 247,900 GSF

SITEWORK DETAILS - GREATER KENNEDY PLAZA UTILITIES

	<u>DESCRIPTION</u>	QUANTITY	<u>UNIT</u>	<u>UNIT COST</u>	<u>TOTAL</u>
11	F20 FACILITY REMEDIATION				
<i>12</i>					
<i>13</i>	F2010 Hazardous Materials Remediation				
14	Hazmat abatement/Soil Remediation				NIC
15	F20 FACILITY REMEDIATION TOTAL				\$0
16					
<i>17</i>					
18	F30 DEMOLITION				
19					
20	F3010 Structure Demolition				
21	Building demolition				NIC
<i>22</i>	F30 DEMOLITION TOTAL				\$0
<i>23</i>					
24					
25	G10 SITE PREPARATION				
26	04.04.0.6% (0)				
27	G1010 Site Clearing				
28	31 10 00 Site Clearing	4 000	ır	¢12.00	¢12.000
29	Construction fence, install, maintain, remove & reinstall;	1,000	LF	\$12.00	\$12,000
30	Temporary construction entrance	2	LOC	\$7,000.00	\$14,000
31	Contractor parking	2 500	CE	ቀ2 00	W/General Con
32 33	Contractor staging and laydown area	2,500 1	SF LS	\$2.00	\$5,000 \$3,000
33 34	Temp signs Wash down (re-fueling (parking allowance)	1	ГЭ	\$3,000.00	\$3,000 W/General Con
35	Wash down/re-fueling/parking allowance 31 23 19 Dewatering and Drainage				W/General Con
<i>36</i>	Dewatering for sitework excavation; allow	1	LS	\$15,000.00	\$15,000
<i>37</i>	31 25 00 Erosion and Sedimentation Controls	1	ЦЭ	Ψ13,000.00	Ψ13,000
38	Temporary seed cover	1	AL	\$5,000.00	\$5,000
39	Compost sock	200	LF	\$14.00	\$2,800
40	Compose sock	200	ш.	Ψ11.00	Ψ2,000
41	G1020 Site Demolition and Relocation				
42	02 41 00 Demolition				
<i>43</i>	Saw cut existing pavement	1	LS	\$5,000.00	\$5,000
44					•
45	Protection of existing	1	AL	\$15,000.00	\$15,000
46					
47	Remove & dispose	1	AL	\$10,000.00	\$10,000
48	Remove drain line				Incl above
49	Remove control valves				Incl above
50	Remove surface edging				Incl above
	PUV Budget 30 Matrix 11 June 2021			Detailed Est Kenne	•
]	Printed 6/11/2021			Pa	age 14 of 231

Providence, RI 247,900 GSF

SITEWORK DETAILS - GREATER KENNEDY PLAZA UTILITIES

	<u>DESCRIPTION</u>	QUANTITY L	<u>UNIT</u>	<u>UNIT COST</u>	<u>TOTAL</u>
51 52 53 54 55	Remove sewer line Remove concrete pad Remove tree Silt sock				Incl above Incl above Incl above Incl above
56 57 58 59	G1020.01 Building Demolition 02 30 00 Building Demolition Building demoltion				See Above
60 61 62 63	G1030 Site Earthwork Earthwork Gravel base	1 500	AL CY	\$100,000.00 \$38.00	\$100,000 \$19,000
64 65 66 67	G10 SITE PREPARATION TOTAL G20 SITE IMPROVEMENTS				\$205,800
68 69 70 71	G2020 Roadways Asphalt repairs as necessary G2050.03 Trees, Plants and Ground Covers	5,000	SF	\$3.85	\$19,250 NIC
72 73 74 75	G20 SITE IMPROVEMENTS TOTAL				\$19,250
76 77	G30 SITE CIVIL/MECHANICAL UTILITIES				
78 79	G3010 Water Utilities	1	AL	\$200,000.00	\$200,000
80 81	G3020 Sanitary Sewerage Utilities	1	AL	\$300,000.00	\$300,000
82 83	G3030 Storm Drainage Utilities	1	LS	\$200,000.00	\$200,000
84 85	G3040 Gas Utilities 33 50 00 Gas Service				
86 87 88	Connection to existing gas main Gas Line Trench				NIC NIC
89 90	G30 SITE CIVIL/MECHANICAL UTILITIES TOTAL				\$700,000



Providence, RI 247,900 GSF

SITEWORK DETAILS - GREATER KENNEDY PLAZA UTILITIES

	<u>DESCRIPTION</u>	QUANTITY UNIT	UNIT COST	<u>TOTAL</u>
91				
92	G40 SITE ELECTRICAL UTILITIES			
93				
94	G4010 Site Electrical Utilities			
95				
96	Site Utilities	1 LS	\$150,000.00	\$150,000
97			_	
98	G40 SITE ELECTRICAL UTILITIES TOTAL			\$150,000
99				
<i>100</i>			_	
<i>101</i>		TOTAL SITEW	ORK SUMMARY	\$1,075,050
<i>102</i>			_	



Providence Unified Vision Rink Building

Providence, RI 23,033 GSF

MAIN SUMMARY - RINK BUILDING

<u>DESCRIPTION</u> <u>TOTAL</u>

1 Direct Trade Costs With Site

	Site Development Direct Trade Cost SubTotal			\$3,304,983 \$3,304,983
	Pricing Contingency Trade Cost SubTotal	15.00%	\$3,304,983	\$495,747 \$3,800,730
	General Conditions	5.75% 5.25%	\$3,800,730 \$4,019,272	\$218,542 \$211,012
	General Requirements Insurance	1.50%	\$4,019,272	\$63,454
9	Bond	0.65%	\$4,293,739	\$27,909
10	Permit	0.00%	\$4,321,648	\$0
11	Fee	3.00%	\$4,321,648	\$129,649
12	Estimated Construction Cost Total			\$4,451,297



Providence, RI 23,033 GSF

DIRECT COST SUMMARY - RINK BUILDING

	<u>ELEMENT</u>	_ <u>TOTAL</u>
11	F20 FACILITY REMEDIATION	\$0
12		
13	F30 DEMOLITION	\$0
14		
15	G10 SITE PREPARATION	\$0
16		
17	G20 SITE IMPROVEMENTS	\$2,915,875
18		
19	G30 SITE CIVIL/MECHANICAL UTILITIES	\$327,700
20		
21	G40 SITE ELECTRICAL UTILITIES	\$61,408
<i>22</i>		
<i>23</i>		
24	TOTAL	<u>\$3,304,983</u>
25		
26		
<i>27</i>		
28		
29		
30		
31		
32 33		
34		
3 4		
<i>36</i>		
<i>37</i>		
<i>38</i>		
<i>39</i>		
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45		
46		



Providence, RI 23,033 GSF

SITEWORK DETAILS - RINK BUILDING

	<u>DESCRIPTION</u>	QUANTITY UNIT	<u>UNIT COST</u>	<u>TOTAL</u>
11	F20 FACILITY REMEDIATION			
12				
<i>13</i>	F2010 Hazardous Materials Remediation			
14	Hazmat abatement/Soil Remediation			NIC
15	F20 FACILITY REMEDIATION TOTAL			\$0
16				
<i>17</i>				
18	F30 DEMOLITION			
19				
20	F3010 Structure Demolition			
21	Building demolition			NIC
<i>22</i>	F30 DEMOLITION TOTAL			\$0
<i>23</i>				
24				
25	G10 SITE PREPARATION			
26	94949 St St L			
27	G1010 Site Clearing			
28	31 10 00 Site Clearing			
<i>29</i>				
30	C1020 Site Domelition and Pole action			
31 32	G1020 Site Demolition and Relocation 02 41 00 Demolition			
32 33	No work in this section			
34	NO WOLK III THIS SECTION			
35	G1030 Site Earthwork			
36	No work in this section			
<i>37</i>				
<i>38</i>	G10 SITE PREPARATION TOTAL			\$0
<i>39</i>				
40				
41	G20 SITE IMPROVEMENTS			
<i>42</i>				
<i>43</i>	G2020 Roadways			
44	No work in this section			
45				
46	G2030 Pedestrian Paving			
<i>47</i>	No work in this section			
48				
49	G2040 Site Development			



50

32 31 00 Fences and Gates PUV Budget 30 Matrix 11 June 2021

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Providence, RI 23,033 GSF

SITEWORK DETAILS - RINK BUILDING

	<u>DESCRIPTION</u>	<u>QUANTITY</u>	<u>UNIT</u>	<u>UNIT COST</u>	<u>TOTAL</u>
51	Rink Floor	1	AL	\$1,095,500.00	\$1,095,500
<i>52</i>	Railing/Dasher System	1	AL	\$371,875.00	\$371,875
53	Signage	1	EA	\$10,000.00	\$10,000
54	Concrete bollard	1	LS	\$5,000.00	\$5,000
<i>55</i>	Miscellaneous site improvements	1	LS	\$25,000.00	\$25,000
56	Refrigeration	1	LS	\$1,408,500.00	\$1,408,500
<i>57</i>	G2050.02 Lawns and Grasses				
58	No work in this section				
59					
<i>60</i>	G2050.03 Trees, Plants and Ground Covers				
61	No work in this section				
<i>62</i>				_	
<i>63</i>	G20 SITE IMPROVEMENTS TOTAL			_	\$2,915,875
<i>64</i>					
65					
66	G30 SITE CIVIL/MECHANICAL UTILITIES				
67					
<i>68</i>	G3010 Water Utilities				
69	33 10 00 Water Utilities				
70	4" domestic water service pipe	800	LF	\$70.00	\$56,000
<i>71</i>	6" fire protection service pipe	800	LF	\$85.00	\$68,000
<i>72</i>	CLDI water line	800	LF	\$25.00	\$20,000
<i>73</i>	Connect to existing	1	EA	\$2,500.00	\$2,500
<i>74</i>	Hydrant	1	LS	\$15,000.00	\$15,000
<i>75</i>	Thrust blocks - force main	1	LS	\$3,000.00	\$3,000
<i>76</i>					
<i>77</i>	G3020 Sanitary Sewerage Utilities				
<i>78</i>	33 31 00 Sanitary Sewerage				
<i>7</i> 9	Connect to existing SMH	1	LS	\$25,000.00	\$25,000
80	PVC sewer line	800	LF	\$82.00	\$65,600
81	SMH	2	EA	\$4,000.00	\$8,000
<i>82</i>					
<i>83</i>	G3030 Storm Drainage Utilities				
84	33 41 00 Storm Utility Drainage				
85	12" dia CPE storm drain pipe, corriugated polyethylene pipe	800	LF	\$35.00	\$28,000
<i>86</i>	AD	5	EA	\$1,750.00	\$8,750
<i>87</i>	CB	3	EA	\$3,200.00	\$9,600
88	Connect to existing DMH	1	EA	\$1,750.00	\$1,750
89	DMH	3	EA	\$4,000.00	\$12,000
90	Outlet control structure	1	EA	\$4,500.00	\$4,500
	PUV Budget 30 Matrix 11 June 2021 Printed 6/11/2021			Detailed Est Rin Page	k Building 20 of 231

Providence, RI 23,033 GSF

SITEWORK DETAILS - RINK BUILDING

	<u>DESCRIPTION</u>	QUANTITY	<u>UNIT</u>	<u>UNIT COST</u>	<u>TOTAL</u>
91					
92	G3040 Gas Utilities				
93	33 50 00 Gas Service				
94	Connection to existing gas main				NIC
95	Gas Line Trench				NIC
96	das Eme Trenen				MG
97	G30 SITE CIVIL/MECHANICAL UTILITIES TOTAL			_	\$327,700
98	do one of the order				4027,700
99					
100	G40 SITE ELECTRICAL UTILITIES				
101					
102	G4010 Site Electrical Utilities				
103	Site Lighting: (ALLOW)	1	AL	\$15,000.00	\$15,000
104	Pedestrian Walway Light Pole	1	LS	\$10,000.00	\$10,000
<i>105</i>	1" Pvc, 4#8 UG	1,000	LF	\$16.41	\$16,408
106	Site Lighting Controls	1	LS	\$5,000.00	\$5,000
<i>107</i>					·
108	Site Utilities	1	LS	\$15,000.00	\$15,000
109					
<i>110</i>	G40 SITE ELECTRICAL UTILITIES TOTAL			_	\$61,408
111					
112		TOTAL	SITEW	ORK SUMMARY	\$3,304,983
113				=	



Providence, RI 225,110 GSF

MAIN SUMMARY - GREATER KENNEDY PLAZA SURFACING, UTILITIES & LIGHTING

	<u>DESCRIPTION</u>			<u>TOTAL</u>	COST/SF
1	Direct Trade Costs With Site				
2	Site Development		_	\$11,589,363	\$51.48
3	Direct Trade Cost SubTotal		_	\$11,589,363	\$51.48
4	Pricing Contingency	15.00%	\$11,589,363	\$1,738,404	\$7.72
5	Trade Cost SubTotal		_	\$13,327,767	\$59.21
6	General Conditions	5.75%	\$13,327,767	\$766,347	\$3.40
7	General Requirements	5.25%	\$14,094,114	\$739,941	\$3.29
8	Insurance	1.50%	\$14,834,055	\$222,511	\$0.99
9	Bond	0.65%	\$15,056,566	\$97,868	\$0.43
10	Permit	0.00%	\$15,154,434	\$0	\$0.00
11	Fee	3.00%	\$15,154,434	\$454,633	\$2.02
12	Estimated Construction Cost Total		_	\$15,609,067	\$69.34



Providence, RI 225,110 GSF

DIRECT SUMMARY - GREATER KENNEDY PLAZA SURFACING, UTILITIES & LIGHTING

	<u>ELEMENT</u>	<u>TOTAL</u>
11 12	F20 FACILITY REMEDIATION	\$0
13 14	F30 DEMOLITION	\$0
	G10 SITE PREPARATION	\$1,198,710
17 18	G20 SITE IMPROVEMENTS	\$6,913,153
19 20	G30 SITE CIVIL/MECHANICAL UTILITIES	\$1,950,000
	G40 SITE ELECTRICAL UTILITIES	\$1,527,500
<i>23</i>	TOTAL	<u>\$11,589,363</u>
25 26		<u> </u>
27 28		
29 30		
31 32		
33 34		
35 36 37		
38 39		
40 41		
42 43		
44 45		
46		



Providence Unified Vision Greater Kennedy Plaza

Providence, RI 225,110 GSF

DETAILED ESTIMATE - GREATER KENNEDY PLAZA SURFACING, UTILITIES & LIGHTING

	<u>DESCRIPTION</u>	QUANTITY	<u>UNIT</u>	<u>UNIT COST</u>	<u>TOTAL</u>
11	F20 FACILITY REMEDIATION				
12					
<i>13</i>	F2010 Hazardous Materials Remediation				
14	Hazmat abatement/Soil Remediation				NIC
15	F20 FACILITY REMEDIATION TOTAL				\$0
16					
<i>17</i>					
18	F30 DEMOLITION				
19					
20	F3010 Structure Demolition				
21	Building demolition				NIC
<i>22</i>	F30 DEMOLITION TOTAL				\$0
<i>23</i>					
24					
<i>25</i>	G10 SITE PREPARATION				
<i>26</i>					
<i>27</i>	G1010 Site Clearing				
<i>28</i>	31 10 00 Site Clearing				
<i>29</i>	Site clearing	5.17	ACRES	\$10,000.00	\$51,700
<i>30</i>	Construction fence, install, maintain, remove & reinstall;	427	LF	\$12.00	\$5,125
<i>31</i>	Double construction gate	4	PR	\$2,500.00	\$10,000
<i>32</i>	Temporary construction entrance	2	LOC	\$7,000.00	\$14,000
<i>33</i>	Contractor parking				W/General Con
<i>34</i>	Contractor staging and laydown area	11,256	SF	\$2.00	\$22,511
<i>35</i>	Temp signs	1	LS	\$7,500.00	\$7,500
<i>36</i>	Wash down/re-fueling/parking allowance				W/General Con
<i>37</i>	31 23 19 Dewatering and Drainage				
38	Dewatering for sitework excavation; allow	1	LS	\$35,000.00	\$35,000
39	31 25 00 Erosion and Sedimentation Controls	_		±0 = 00 00	±0 =00
40	Temporary seed cover	1	AL	\$3,500.00	\$3,500
41 42	Compost sock	141	LF	\$14.00	\$1,973
43	G1020 Site Demolition and Relocation				
44	02 41 00 Demolition				
45	Saw cut existing pavement	1	LS	\$10,000.00	\$10,000
46					
<i>47</i>	Protection of existing	1	AL	\$50,000.00	\$50,000
48	Protect drain and sewer line	500	LF		Incl above
49	Protect tree	23	EA		Incl above
50	HW Dudget 20 Metric 11 June 2021			Datailed Venn	- J D



Providence, RI 225,110 GSF

DETAILED ESTIMATE - GREATER KENNEDY PLAZA SURFACING, UTILITIES & LIGHTING

	<u>DESCRIPTION</u>	QUANTITY	<u>UNIT</u>	<u>UNIT COST</u>	<u>TOTAL</u>
51	Remove & dispose	1	AL	\$125,000.00	\$125,000
<i>52</i>	Remove drain line				Incl above
<i>53</i>	Remove control valves				Incl above
54	Remove surface edging				Incl above
55	Remove sewer line				Incl above
56	Remove concrete pad				Incl above
<i>57</i>	Remove tree				Incl above
58	Silt sock				Incl above
59					
60	G1020.01 Building Demolition				
61	02 30 00 Building Demolition				
<i>62</i>	Building demoltion				See Above
<i>63</i>					
64	G1030 Site Earthwork				
65	Soils Characterization and Disposal; allowance	1	AL	\$125,000.00	\$125,000
<i>66</i>	Rock excavation				NIC
<i>67</i>	Rough grading	25,012	SY	\$1.50	\$37,518
68	Fine grading	225,110	SF	\$1.00	\$225,110
69	Cut and fill	25,012	CY	\$9.00	\$225,110
70	Gravel base	3,258	CY	\$38.00	\$123,804
<i>71</i>	Temporary swales w/check dams	1	AL	\$35,000.00	\$35,000
72	Spread loam	4,169	CY	\$11.00	\$45,859
<i>73</i>	Temporary parking				NIC
74	Allow for miscellaneous repairs during construction	1	LS	\$45,000.00	\$45,000
<i>75</i>					
76 	G10 SITE PREPARATION TOTAL				\$1,198,710
77					
<i>78</i>	COO CUTT IMPROVEMENTS				
79	G20 SITE IMPROVEMENTS				
80	C2020 D I				
81	G2020 Roadways				
82	32 17 00 Paving Specialties	1	1.0	¢10 000 00	¢10.000
83 84	Misc. marking other than above	1	LS	\$10,000.00	\$10,000
	C2020 Redestrien Paving				
85 96	G2030 Pedestrian Paving				NIC
86 87	32 13 10 Rigid Paving	175 020	SF	\$35.00	NIC \$6.157.400
88	Paving	175,928	Sr	\$55.00	\$6,157,480
89	<u>Circle Surface</u>				
90	Brick paving	0	SF	\$45.00	\$0
	UV Budget 30 Matrix 11 June 2021	U	ЭГ	Detailed Kenne	
	rinted 6/11/2021				age 25 of 231

Providence, RI 225,110 GSF

DETAILED ESTIMATE - GREATER KENNEDY PLAZA SURFACING, UTILITIES & LIGHTING

	<u>DESCRIPTION</u>	QUANTITY	<u>UNIT</u>	<u>UNIT COST</u>	<u>TOTAL</u>
91	Recycled rubber flooring	0	SF	\$30.00	\$0
92	Granite unit pavers	0	SF	\$65.00	\$0
93	Stabilized Decomposed Granite	0	CY	\$500.00	\$0
94		_		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	, -
95	G2040 Site Development				
96	G2040.01 Fences and Gates				
97	32 31 00 Fences and Gates				
98	Fences and gates	1	AL	\$90,000.00	\$90,000
99					
100	G2040.02 Site and Street Furnishes				
101	Signage	1	EA	\$5,000.00	\$5,000
<i>102</i>	Traffic signs	1	AL	\$2,500.00	\$2,500
<i>103</i>	Remove & reinstall Soldier & Sailor Moment				NIC
<i>104</i>	Tree planters	17	EA	\$1,200.00	\$20,400
<i>105</i>	Basketball Backstop and pole	2	EA	\$3,500.00	\$7,000
<i>106</i>	Benches	9	EA	\$8,000.00	\$72,000
<i>107</i>	Trees, Bushes, Shrubs, Plantings	1	LS	\$225,000.00	\$225,000
<i>108</i>	Miscellaneous site improvements	1	LS	\$250,000.00	\$250,000
109					
<i>110</i>	G2050.02 Lawns and Grasses				
111	32 92 00 Turfs and Grasses				NIC
<i>112</i>	Sod	49,182	SF	\$1.50	\$73,773
113	G2050.03 Trees, Plants and Ground Covers				NIC
114					
115	G20 SITE IMPROVEMENTS TOTAL				\$6,913,153
116					
117					
	G30 SITE CIVIL/MECHANICAL UTILITIES				
119	G0040 M/ · M/11/1	4	A T	# 000 000 00	ф000 000
120	G3010 Water Utilities	1	AL	\$900,000.00	\$900,000
121	C2020 Comitowy Covyomogo Utilities	1	ΑТ	¢700 000 00	¢700.000
122 123	G3020 Sanitary Sewerage Utilities	1	AL	\$700,000.00	\$700,000
123 124	G3030 Storm Drainage Utilities	1	LS	\$350,000.00	\$350,000
125	d3030 Storm Dramage Othities	1	ъЭ	\$330,000.00	\$330,000
12 <i>5</i>	G3040 Gas Utilities				
120 127	33 50 00 Gas Service				
128	Connection to existing gas main				NIC
129	Gas Line Trench				NIC
130					1110
	UV Budget 30 Matrix 11 June 2021			Detailed Kenne	edy Pavement



Providence, RI 225,110 GSF

DETAILED ESTIMATE - GREATER KENNEDY PLAZA SURFACING, UTILITIES & LIGHTING

	<u>DESCRIPTION</u>	QUANTITY	<u>UNIT</u>	<u>UNIT COST</u>	<u>TOTAL</u>
131 132	G30 SITE CIVIL/MECHANICAL UTILITIES TOTAL			-	\$1,950,000
133					
134	G40 SITE ELECTRICAL UTILITIES				
135	CAOAO C'. The car lawying				
136	G4010 Site Electrical Utilities				
137	Site lighting	62	EA	\$2,500.00	\$155,000
<i>138</i>	Event power and trenching:				
139	Site Lighting: (ALLOW)	1	AL	\$350,000.00	\$350,000
140	1" Pvc, 4#8 UG	7,500	LF	\$50.00	\$375,000
<i>141</i>	Empty conduit	3,500	LF	\$75.00	\$262,500
<i>142</i>	Site Lighting Controls	1	LS	\$35,000.00	\$35,000
<i>143</i>					
144	Site Utilities	1	LS	\$350,000.00	\$350,000
<i>145</i>				_	
146	G40 SITE ELECTRICAL UTILITIES TOTAL			_	\$1,527,500
<i>147</i>					
<i>148</i>				_	
149	TOTAL SITEWORK SUMMARY				\$11,589,363
150				•	



Providence Unified Vision Water Feature at Kennedy Plaza

Providence, RI

MAIN SUMMARY - WATER FEATURE AT KENNEDY PLAZA

<u>DESCRIPTION</u> <u>TOTAL</u>

1 Direct Trade Costs With Site

	Site Development Direct Trade Cost SubTotal		-	\$2,560,000 \$2,560,000
	Pricing Contingency Trade Cost SubTotal	15.00%	\$2,560,000	\$384,000 \$2,944,000
7 8 9	General Conditions General Requirements Insurance Bond	5.75% 5.25% 1.50% 0.65%	\$2,944,000 \$3,113,280 \$3,276,727 \$3,325,878	\$169,280 \$163,447 \$49,151 \$21,618
	Permit	0.00%	\$3,347,496	\$0
	Fee Estimated Construction Cost Total	3.00%	\$3,347,496	\$100,425 \$3,447,921



Providence Unified Vision Water Feature at Kennedy Plaza

Providence, RI

DIRECT COST SUMMARY - WATER FEATURE AT KENNEDY PLAZA

	<u>ELEMENT</u>	_TOTAL
	F20 FACILITY REMEDIATION	\$0
11		40
12 13	F30 DEMOLITION	\$0
	G10 SITE PREPARATION	\$60,000
15		Ψ00,000
	G20 SITE IMPROVEMENTS	\$2,500,000
<i>17</i>		
18	G40 SITE ELECTRICAL UTILITIES	\$0
19		
20		
21 22	TOTAL	<i>\$2,560,000</i>
23		
24		
25		
26		
27		
28 29		
30		
<i>31</i>		
<i>32</i>		
33		
34 35		
<i>36</i>		
<i>37</i>		
<i>38</i>		
39		
40 41		
41 42		
43		



Providence Unified Vision Water Feature at Kennedy Plaza

Providence, RI

SITEWORK DETAILS - WATER FEATURE AT KENNEDY PLAZA

	<u>DESCRIPTION</u>	QUANTITY U	<u> INIT</u>	<u>UNIT COST</u>	<u>TOTAL</u>
10	F20 FACILITY REMEDIATION				
11					
<i>12</i>	F2010 Hazardous Materials Remediation				
<i>13</i>	Hazmat abatement/Soil Remediation				NIC
14	F20 FACILITY REMEDIATION TOTAL				\$0
15					
16					
17	F30 DEMOLITION				
18					
19	F3010 Demolition				
20	Demolition in Demo Estimate				NIC
21	F30 DEMOLITION TOTAL				\$0
22					
23	C10 CITE DDED AD ATION				
24 25	G10 SITE PREPARATION				
25 26	G1010 Site Clearing				
27	Site clearing				W/General Con
28	Construction fence, install, maintain, remove & reinstall;				W/General Con
29	Double construction gate				W/General Con
30	Temporary construction entrance				W/General Con
31	Contractor parking				W/General Con
32	Contractor staging and laydown area				Incl w/Kennedy
33	Temp signs				Incl w/Kennedy
<i>34</i>	Wash down/re-fueling/parking allowance				Incl w/Kennedy
35	, 3,1				, ,
<i>36</i>	Dewatering for sitework excavation; allow				Incl w/Kennedy
<i>37</i>					
<i>38</i>	Temporary seed cover				Incl w/Kennedy
<i>39</i>	Compost sock				Incl w/Kennedy
40					
41	G1020 Site Demolition and Relocation				
<i>42</i>	02 41 00 Demolition				
<i>43</i>	Saw cut existing pavement	1	LS	\$35,000.00	\$35,000
44					
45	Protection of existing	1	AL	\$25,000.00	\$25,000
46	Protect drain and sewer line				Incl above
47	Protect tree				Incl above
48	D 0 1:				T 1 1/2
49	Remove & dispose				Incl wi/Demo
50					



TOTAL

Providence Unified Vision Water Feature at Kennedy Plaza

Providence, RI

SITEWORK DETAILS - WATER FEATURE AT KENNEDY PLAZA

QUANTITY UNIT UNIT COST

DESCRIPTION

		
51	G1020.01 Building Demolition	
<i>52</i>	02 30 00 Building Demolition	
<i>53</i>	Building demoltion	Incl wi/Demo
54		
<i>55</i>	G1030 Site Earthwork	
56	Soils Characterization and Disposal; allowance	Incl w/Kennedy
<i>57</i>	Rock excavation	NIC
58	Rough grading	Incl w/Kennedy
59	Fine grading	Incl w/Kennedy
<i>60</i>	Cut and fill	Incl w/Kennedy
61	Gravel base	Incl w/Kennedy
<i>62</i>	Allow for miscellaneous repairs during construction	Incl w/Kennedy
63		
64	G10 SITE PREPARATION TOTAL	\$60,000
65		
66 67	G20 SITE IMPROVEMENTS	
68	GZU SITE IMPROVEMENTS	
69	G2040 Site Development	
70	For interim level budgeting purposes, here is where our current concepts sit. These are rough budgets for the WET	nortions—meaning
71	feature engineering, field services to test/adjust and get the feature up and running after installation by the contracto specialized fountain equipment (controls, nozzles, fog manifolds, lights, filtration, pumps/compressors etc.) These f construction and installation. We have not figured a cost for the fog ring or pole structure yet. We don't know if that v item or contractor supplied item yet.	r, choreography and all igures do not include
<i>72</i>	Kennedy Plaza \$2.5m WET 1 AL \$2,500,000.00	\$2,500,000
<i>73</i>	G20 SITE IMPROVEMENTS TOTAL	\$2,500,000
<i>74</i>		
<i>75</i>		
<i>76</i>	G40 SITE ELECTRICAL UTILITIES	
77		
<i>78</i>	G4010 Site Electrical Utilities	
<i>79</i>	Power	Included Abov
80	CAO CIME EL ECADICAL LIMILIMIEC MOMAL	
81	G40 SITE ELECTRICAL UTILITIES TOTAL	\$0
82 83	TOTAL SITEWORK SUMMARY	\$2,560,000
os 84	TOTAL SITEWORK SUMMARY	<i>\$2,300,000</i>
04		



Providence, RI 3,684 GSF

MAIN SUMMARY - LINER BUILDING

	<u>DESCRIPTION</u>			<u>TOTAL</u>	<u>COST/SF</u>
10	Direct Trade Costs With Site				
11	Liner Building	3,684	GSF	\$3,089,358	\$838.59
<i>12</i>	Site Development			Part of Kennedy I	Plaza
<i>13</i>					
14	Direct Trade Cost SubTotal			\$3,089,358	\$838.59
15					
16	Pricing Contingency	15.00%	\$3,089,358	\$463,404	\$125.79
<i>17</i>					
18	Direct Trade Cost Total			\$3,552,762	\$1.15
19					
20	General Conditions	5.75%	\$3,552,762	\$204,284	\$55.45
21	General Requirements	5.25%	\$3,757,045	\$197,245	\$53.54
<i>22</i>	Insurance	1.50%	\$3,954,290	\$59,314	\$16.10
<i>23</i>	Bonds	0.65%	\$4,013,605	\$26,088	\$7.08
24	Permits	0.00%	\$4,039,693	\$0	\$0.00
25	Fee	3.00%	\$4,039,693	\$121,191	\$32.90
<i>26</i>					
<i>27</i>	Estimated Construction Cost Total			\$4,160,884	\$1,129.45
<i>28</i>					
29					
<i>30</i>					
<i>31</i>					



Providence, RI 3,684 GSF

	<u>ELEMENT</u>	<u>TOTAL</u>	COST/SF
9 10	A10 FOUNDATIONS	\$885,852	\$240.46
11 12	B10 STRUCTURE	\$604,090	\$163.98
13 14	B20 EXTERIOR CLOSURE	\$376,620	\$102.23
15			
16 17	B30 ROOFING	\$359,520	\$97.59
18	C10 INTERIOR CONSTRUCTION	\$158,022	\$42.89
19 20	C20 STAIRCASES	\$30,000	\$8.14
21 22	C30 INTERIOR FINISHES	\$141,834	\$38.50
23	D10 CONVEYING CYCTEM	ф44 Г ОО	¢12.00
24 25	D10 CONVEYING SYSTEM	\$44,500	\$12.08
26 27	D20 PLUMBING	\$55,260	\$15.00
28	D30 HVAC	\$176,832	\$48.00
29 30	D40 FIRE PROTECTION	\$25,788	\$7.00
31 32	D50 ELECTRICAL	\$184,200	\$50.00
<i>33</i>			
34 35	E10 EQUIPMENT	\$10,000	\$2.71
36 37	E20 FURNISHINGS	\$36,840	\$10.00
<i>38</i>	F10 SPECIAL CONSTRUCTION	\$0	\$0.00
39 40	F20 SELECTIVE DEMOLITION	\$0	\$0.00
41	TOTAL	¢2.000.250	¢020 F0
42 43	TOTAL	<u>\$3,089,358</u>	<u>\$838.59</u>
44			



Providence, RI 3,684 GSF

	DIV.NO.	<u>ELEMENTS</u>	<u>TOTAL</u>
10	A10	FOUNDATIONS	
11	-	Foundations	\$781,557
<i>12</i>		Slab on Grade	\$104,294
<i>13</i>		FOUNDATIONS TOTAL	\$885,852
14			
15			
16	B10	STRUCTURE	
<i>17</i>		Upper Floor Construction	\$313,893
18		Roof Construction	\$290,197
19		STRUCTURE TOTAL	\$604,090
20			
21			
<i>22</i>	B20	EXTERIOR CLOSURE	
<i>23</i>		Exterior walls	\$252,720
24		Exterior windows	\$86,400
<i>25</i>		Exterior Doors	\$37,500
26		EXTERIOR CLOSURE TOTAL	\$376,620
27			
28	D0.0	DOGENIA	
29	B30	ROOFING	#250 F20
30		Roof Coverings	\$359,520
31		ROOFING TOTAL	\$359,520
32 33			
33 34	C10	INTERIOR CONSTRUCTION	
3 4 35	C10	Partitions	\$93,873
36		Interior Doors, frames & Hardware	\$36,295
37		Fittings	\$27,854
<i>38</i>		INTERIOR CONSTRUCTION TOTAL	\$158,022
<i>39</i>		INTERIOR GONSTRUCTION TOTAL	\$130,022
40	C20	STAIRS	
41	320	Stairs	\$30,000
42		STAIRS TOTAL	\$30,000
43		3	423,233
44			
45	C30	INTERIOR FINISHES	
46		Wall finishes	\$9,210
47		Floor finishes	\$73,680
48		Ceiling finishes	\$58,944
	Budget 30 Ma ed 6/11/202	atrix 11 June 2021	Summary Liner Bldg Page 34 of 231

Providence, RI 3,684 GSF

	<u>DIV.NO.</u>	<u>ELEMENTS</u>	<u>TOTAL</u>
10	A10	FOUNDATIONS	
49	7110	INTERIOR FINISHES TOTAL	
50		THE TOTAL	\$11,001
51			
<i>52</i>	D10	CONVEYING SYSTEM	
<i>53</i>		Elevator	\$44,500_
54		CONVEYING SYSTEM TOTAL	\$44,500
<i>55</i>			
56			
<i>57</i>	D20	PLUMBING	
58		Plumbing	<u>\$55,260</u>
59		PLUMBING TOTAL	\$55,260
60			
61	D20	INVAC	
62	D30	HVAC	¢177.022
63		HVAC	\$176,832
64 65		HVAC TOTAL	\$176,832
66			
67	D40	FIRE PROTECTION	
68	D 10	Fire Protection	\$25,788
69		FIRE PROTECTION TOTAL	\$25,788
70			, ,,
<i>71</i>			
<i>72</i>	D50	ELECTRICAL	
<i>73</i>		Service and distribution	\$184,200_
74		ELECTRICAL TOTAL	\$184,200
<i>75</i>			
<i>76</i>			
77	E10	EQUIPMENT	
78		Institutional Equipment	\$10,000
<i>79</i>		EQUIPMENT TOTAL	\$10,000
80			
81	E20	FURNISHINGS	
82 83	EZU	Specialties / Millwork	¢27 040
84		FURNISHINGS TOTAL	\$36,840 \$36,840
85		I OMNISHINGS TOTAL	\$30,0 4 0
86			
00			



Providence, RI 3,684 GSF

	<u>DIV.NO.</u>	<u>ELEMENTS</u>	<u>TOTAL</u>
10	A10	FOUNDATIONS	
87	F10	SPECIAL CONSTRUCTION	
88	110	Special construction	\$0
89		SPECIAL CONSTRUCTION TOTAL	<u>***</u>
90			40
91			
92	F20	SELECTIVE DEMOLITION	
93		Selective Demolition	\$0
94		SELECTIVE DEMOLITION TOTAL	<u> </u>
95			
96			
97			
98	BUILDING	G TOTAL TRADE CONSTRUCTION COST	\$3,089,358
99			



Providence, RI 3,684 GSF

DETAILED ESTIMATE - LINEAR BUILDING

	DESCRIPTION QUANTITY UNIT		<u>UNIT</u>	RATE/UNIT	TOTAL
10	A10 FOUNDATIONS				
11					
<i>12</i>	A1010 FOUNDATIONS				
<i>13</i>	Earthwork				
14	Slab-on-Grade platform preparation in Sitework Tab	2,381	SF		
15	Continuous footing w/foundation wall	300	LF		
16	Excavation	440.9	CY	\$12.00	See below
<i>17</i>	Backfill from import	311.9	CY	\$20.00	See below
18	Spread footings	11	EA		
19	Excavation	30.0	CY	\$12.00	See below
20	Backfill from import		CY	\$20.00	See below
21	Elevator pits - 8'-0"W x 8'-0"L x 5'-0"D	0	EA		
<i>22</i>	Excavation	0	CY	\$12.00	See below
<i>23</i>	Backfill from import	0.0	CY	\$20.00	See below
24	Disposal				
25	Cast to off-site waste	159	CY	\$22.00	See below
26	Grade & compact	2,381	SF	\$1.00	See below
<i>27</i>	12" base course sand & gravel below slab on grade	88.2	CY	\$25.00	See below
28					
29	Building over excavation:				
<i>30</i>	Over-excavation to remove topsoil	44	CY	\$8.00	\$353
31	Over-excavation (Removed off site)	2,646	CY	\$7.50	\$19,845
32	Dispose materials	2,690	CY	\$18.00	\$48,422
33 34	Structural fill	1,059	CY	\$28.00	\$29,652
34 35	Building Area:				
36	Cut and fill for building	88	CY	\$9.00	\$794
37	Gravel base to building	88	CY	\$38.00	\$3,351
38	draver base to building	00	G1	Ψ30.00	ψ3,331
39	Perimeter foundation drain	240	LF	\$18.00	\$4,320
40		_			, ,-
41	Concrete				
42	Continuous footings; 3' x 1' 0" typ.	300	LF		
<i>43</i>	Concrete; material	35.0	CY	\$150.00	\$5,250
44	Concrete; place (combination of pumping/trucking)	35.0	CY	\$95.00	\$3,325
45	Reinforcement w/ftn wall dowels (10#/lf)	3,000	LB	\$1.15	\$3,450
46	Formwork	600	SF	\$12.00	\$7,200
47	Spread footings	11	EA	,	. ,
48	Concrete; material	52.0	CY	\$150.00	\$7,800
49	Concrete; place	52.0	CY	\$95.00	\$4,940
		52.0		4,5.55	, 1,, 10

Providence, RI 3,684 GSF

DETAILED ESTIMATE - LINEAR BUILDING

	DESCRIPTION	QUANTITY UNIT		RATE/UNIT	TOTAL
10	A10 FOUNDATIONS				
50	Reinforcement (150#/cy)	7,800	LB	\$1.15	\$8,970
51	Formwork	751	SF	\$12.00	\$9,012
52	Foundation/Basement walls; 12" thick	202	SF		
<i>53</i>	Concrete; material	94	CY	\$150.00	\$14,100
54	Concrete; place	94	CY	\$95.00	\$8,930
<i>55</i>	Reinforcement (150#/cy)	14,100	LB	\$1.15	\$16,215
56	Formwork	2,003	SF	\$20.00	\$40,060
<i>57</i>	Anchor bolts	42	SET	\$35.00	\$1,473
58	Foundation walls; 12" thick	98	LF		
59	Concrete; material	15	CY	\$150.00	\$2,250
60	Concrete; place	15	CY	\$95.00	\$1,425
61	Reinforcement (150#/cy)	2,250	LB	\$1.15	\$2,588
<i>62</i>	Formwork	784	SF	\$25.00	\$19,600
<i>63</i>					
64	Miscellaneous concrete	1	LS	\$10,000.00	\$10,000
65	The second O Mariet on Production				
66	Thermal & Moisture Protection	202	CE	42.55	455 6
67	2" rigid insulation at foundation walls	202	SF	\$2.75	\$556
68 69	Damp proofing to foundation walls	202	SF	\$5.00	\$1,010
70	Special Foundation Conditions				
70 71	Special Foundation Conditions Soil improvements	2,381	SF	\$28.00	\$66,668
71 72	Shoring	5,400	SF	\$75.00	\$405,000
73	Dewatering during excavation	3,400	LS	\$35,000.00	\$35,000
73 74	A1010 FOUNDATIONS TOTAL	1	цЭ	\$33,000.00 <u> </u>	\$781,557
75	AIUIUI UUNDAIIUNS IUIAE				\$701,337
<i>76</i>					
77	A1030 SLAB ON GRADE				
<i>78</i>	Concrete				
79	Slab on grade	2,381	SF		
80	Concrete; material	59	CY	\$150.00	\$8,850
81	Concrete; place & finish	2,381	SF	\$2.75	\$6,548
82	Reinforcement (6x6 mesh)	2,738	SF	\$1.15	\$3,149
83	Slab depressions	10	LF	\$300.00	\$3,000
84	Slab thickening at stair 2'x2'x1' deep		LOC	\$250.00	\$60,000
85	Miscellaneous				-
<i>86</i>	Housekeeping & mechanical equipment pads	1	LS	\$5,000.00	\$5,000
<i>87</i>	Miscellaneous concrete	1	LS	\$8,700.00	\$8,700



Providence, RI 3,684 GSF

	DESCRIPTION	QUANTITY	<u>UNIT</u>	RATE/UNIT	TOTAL
10	A10 FOUNDATIONS				
88	ATOTOGRAPHONS				
89	Thermal & Moisture Protection				
90	2" rigid insulation under slab	2,381	SF	\$2.65	\$6,310
91	Vapor retarder under slab	2,738	SF	\$1.00	\$2,738
92	A1030 SLAB ON GRADE TOTAL	•		_	\$104,294
93					
94	A10 FOUNDATIONS TOTAL			_	\$885,852
95				_	
96					
97	B10 STRUCTURE				
98					
99	B1010 UPPER FLOOR CONSTRUCTION				
<i>100</i>	Concrete				
<i>101</i>	Upper Slab	2,619	SF		
<i>102</i>	Concrete; material	65	CY	\$150.00	\$9,750
<i>103</i>	Concrete; place & finish	2,619	SF	\$2.75	\$7,202
<i>104</i>	Reinforcement (6x6 mesh)	3,012	SF	\$1.15	\$3,464
<i>105</i>	Snowmelt Pit	1	AL	\$25,000.00	\$25,000
106					
107	Structural steel		TNS	\$4,500.00	\$234,000
108	Moment connections	1	AL	\$8,000.00	\$8,000
109	W . 11 1	0.640	O.D.	40.05	44.0.000
110	Metal deck	2,619	SF	\$3.85	\$10,083
111	Mina Matala				
112 113	Misc. Metals Misc. metals	3,684	CE	\$2.50	¢ በ 210
113	Misc. metals	3,004	SF	\$2.50	\$9,210
	Thermal & Moisture Protection				
116	Firestopping	3,684	GSF	\$1.00	\$3,684
117	Fireproofing	1	LS	\$3,500.00	\$3,500
118	B1010 UPPER FLOOR CONSTRUCTION TOTAL	_	20		\$313,893
119					40 20,000
120	B1020 ROOF CONSTRUCTION				
121	Concrete				
122	Roof Slab	2,619	SF		
<i>123</i>	Concrete; material	65	CY	\$150.00	\$9,750
<i>124</i>	Concrete; place & finish	2,619	SF	\$100.00	\$261,900
<i>125</i>	Reinforcement (6x6 mesh)	3,012	SF	\$1.15	\$3,464

Providence, RI 3,684 GSF

	DESCRIPTION	QUANTITY	<u>UNIT</u>	RATE/UNIT	TOTAL
10	A10 FOUNDATIONS				
<i>126</i>					
<i>127</i>	Roof deck	2,619	SF	\$3.85	\$10,083
<i>128</i>	Other misc plates, connections	2,619	SF	\$1.00	\$2,619
129	Rough blocking to roof	2,381	SF	\$1.00	\$2,381
<i>130</i>					
<i>131</i>	Mechanical roof top equipment				
<i>132</i>	Roof screen, galv, assume 13' high; HSS shapes				NIC
<i>133</i>	B1020 ROOF CONSTRUCTION TOTAL				\$290,197
<i>134</i>					
<i>135</i>	TOTAL SYSTEM B10 SUPERSTRUCTURE				\$604,090
<i>136</i>					
<i>137</i>					
<i>138</i>	B20 EXTERIOR CLOSURE				
139					
140	B2010 EXTERIOR WALLS				
141	Exterior walls	3,888	SF	\$65.00	\$252,720
<i>142</i>	B2010 EXTERIOR WALLS TOTAL				\$252,720
<i>143</i>					
144	B2020 EXTERIOR WINDOWS				
<i>145</i>	Windows/storefront	432	SF	\$200.00	\$86,400
146	B2020 EXTERIOR WINDOWS TOTAL				\$86,400
<i>147</i>					
<i>148</i>	B2030 EXTERIOR DOORS				
149	Doors	3	LVS	\$5,000.00	\$15,000
<i>150</i>					
<i>151</i>	Overhead doors	3	EA	\$7,500.00	\$22,500
<i>152</i>	B2030 EXTERIOR DOORS TOTAL				\$37,500
<i>153</i>					
<i>154</i>	TOTAL SYSTEM B20 EXTERIOR CLOSURE				\$376,620
<i>155</i>					
156					
	B30 ROOFING				
<i>158</i>					
<i>159</i>	B3010 ROOF COVERINGS				
<i>160</i>	Roof	4,494	SF	\$80.00	\$359,520
<i>161</i>	B3010 ROOF COVERINGS TOTAL				\$359,520
<i>162</i>					
163	TOTAL SYSTEM B30 ROOFING				\$359,520



Providence, RI 3,684 GSF

	DESCRIPTION	<u>QUANTITY</u>	<u>UNIT</u>	RATE/UNIT	TOTAL
10	A10 FOUNDATIONS				
164					
165					
166	C10 INTERIOR CONSTRUCTION				
<i>167</i>					
168	C1010 PARTITIONS				
169					
<i>170</i>	Partitions	3,150	SF	\$25.00	\$78,750
<i>171</i>	Chasewalls	200	SF	\$16.50	\$3,300
<i>172</i>	Rough carpentry internal partitions and ceilings	3,684	SF	\$1.50	\$5,526
<i>173</i>	Misc metals for interior masonry (lintels, restraint)	3,350	SF	\$1.00	\$3,350
<i>174</i>					
<i>175</i>	Interior penetration firestopping				
176	Interior caulking	3,684		\$0.50	\$1,842
<i>177</i>	Top-of-partition firestopping	3,684	GSF	\$0.30	\$1,105
<i>178</i>	C1010 PARTITIONS TOTAL				\$93,873
179					
180	C1020 INTERIOR DOORS, FRAMES & HARDWARE				
181	Hollow Metal Doors and Frames:			400000	* 4 0 0 0
182	Door frames	14	EA	\$300.00	\$4,200
183	Door frames for pair doors	4	EA	\$350.00	\$1,400
184	Doors	22	EA	\$325.00	\$7,150
185	Handrian	22	CET	¢750.00	¢1.6 F00
186	Hardware	22	SET	\$750.00	\$16,500
187	Paint door frames	18 22	EA EA	\$80.00	\$1,440 \$1,540
188	Paint door		EA LF	\$70.00	\$1,540
189 190	Blocking at doors Door Installation	306 22	Lr EA	\$2.50 \$150.00	\$765
190 191	C1020 INTERIOR DOORS, FRAMES & HARDWARE TOTA		ĽА	\$130.00	\$3,300 \$36,295
191	C1020 IN TERIOR DOORS, FRAMES & HARDWARE TOTA	1L			\$30, 2 93
193	C1030 FITTINGS				
194	C103011111114G5				
195	Paint/finish	3,684	SF	\$3.00	\$11,052
196	Tame, misi	3,001	51	ψ3.00	Ψ11,032
197	Signage				
198	Miscellaneous signage	3,684	GSF	\$3.00	\$11,052
199		-,		7	,
200	Fire extinguisher cabinets				
<i>201</i>	Fully recessed/non-rated	1	EA	\$450.00	\$450
	•				•



Providence, RI 3,684 GSF

	DESCRIPTION	QUANTITY	<u>UNIT</u>	RATE/UNIT	TOTAL
10	A10 FOUNDATIONS				
<i>202</i>	Semi-recessed/non-rated	1	EA	\$300.00	\$300
<i>203</i>					
204	Miscellaneous fittings	1	LS	\$5,000.00	\$5,000
205	C1030 FITTINGS TOTAL			_	\$27,854
<i>206</i>					
<i>207</i>	TOTAL SYSTEM C10 INTERIOR CONSTRUCTION			_	\$158,022
<i>208</i>					
<i>209</i>					
<i>210</i>	C20 STAIRCASES				
211					
212	C2010 Stairs	_		±0= 000 00	±0= 000
213	Stairs		FLT	\$25,000.00	\$25,000
214	Concrete	1	FLT	\$5,000.00	\$5,000
215	TOTAL				\$30,000
216	TOTAL CUCTEM COOCTAIDS				<u> </u>
217 218	TOTAL SYSTEM C20 STAIRS			=	\$30,000
218 219					
219	C30 INTERIOR FINISHES				
221	CSU INTERIOR FINISITES				
222	C3010 WALL FINISHES				
223	Paint	3,684	GSF	\$2.50	\$9,210
224	C3010 WALL FINISHES TOTAL	5,001	dbi	Ψ2.30	\$9,210
225					47,==0
226	C3020 FLOOR FINISHES				
227	Flooring	3,684	SF	\$20.00	\$73,680
<i>228</i>	5	•		_	\$73,680
229					
<i>230</i>	C3030 CEILING FINISHES				
<i>231</i>	Ceiling	3,684	SF	\$16.00	\$58,944
<i>232</i>	C3030 CEILING FINISHES TOTAL				\$58,944
<i>233</i>					
<i>234</i>	TOTAL SYSTEM C30 INTERIOR FINISHES			_	\$141,834
<i>235</i>				_	
<i>236</i>					
<i>237</i>	D10 CONVEYING SYSTEM				
<i>238</i>					
239	D1010 ELEVATORS				



Providence, RI 3,684 GSF

	DESCRIPTION	QUANTITY	QUANTITY UNIT		TOTAL
10	A10 FOUNDATIONS				
240	Elevator	1	FLT	\$25,000.00	\$25,000
241	Pit Ladder	1	EA	\$1,000.00	\$1,000
242	Sill Angles	70	LF	\$50.00	\$3,500
243	Sump Pump; complete	1	EA	\$10,000.00	\$10,000
244	Hoist Beam	1	EA	\$5,000.00	\$5,000
<i>245</i>	D10 CONVEYING SYSTEM TOTAL			_	\$44,500
246					
<i>247</i>	TOTAL SYSTEM C20 STAIRS			_	\$44,500
<i>248</i>					
<i>249</i>					
<i>250</i>	D15 MECHANICAL				
<i>251</i>					
<i>252</i>	D20 PLUMBING				
<i>253</i>	Plumbing	3,684	SF	\$15.00 <u> </u>	\$55,260
<i>254</i>	D20 PLUMBING TOTAL				\$55,260
<i>255</i>					
<i>256</i>	D30 HVAC				
<i>257</i>	HVAC	3,684	SF	\$48.00	\$176,832
258	D30 HVAC TOTAL				\$176,832
259					
260	D40 FIRE PROTECTION	2.604	CE	45.00	*** *
261	Sprinkler Coverage	3,684	SF	\$7.00_	\$25,788
262	D40 FIRE PROTECTION TOTAL				\$25,788
263	TOTAL CUCTEM DAE MECHANICAL				¢255.000
264	TOTAL SYSTEM D15 MECHANICAL			_	\$257,880
265					
266	D50 ELECTRICAL				
268	D50 ELECTRICAL				
	D5011 SERVICE & DISTRIBUTION				
270	Interior Electrical	3,684	SF	\$50.00	\$184,200
271	D5011 SERVICE & DISTRIBUTION TOTAL	3,004	51	Ψ30.00	\$184,200
272	D3011 3ERVICE & DISTRIBUTION TOTAL				\$10 1 ,200
273	TOTAL SYSTEM D50 ELECTRICAL				\$184,200
274	10 THE OTOTAL POOP BEHOLIKUME			_	ΨΙΟ 1,200
275					
276	E10 EQUIPMENT				
277					



Providence, RI 3,684 GSF

	<u>DESCRIPTION</u>	QUANTITY U	<u>JNIT</u>	RATE/UNIT	TOTAL
10	A10 FOUNDATIONS				
<i>278</i>	E1020 INSTITUTIONAL EQUIPMENT				
<i>279</i>	Miscellaneous equipment	1	AL	\$10,000.00	\$10,000
<i>280</i>	E1020 INSTITUTIONAL EQUIPMENT TOTAL				\$10,000
<i>281</i>					
<i>282</i>	TOTAL SYSTEM E10 FITTINGS & EQUIPMENT				\$10,000
<i>283</i>					
284					
<i>285</i>	E20 FURNISHINGS				
286					
	E2020 SPECIALTIES / MILLWORK	0.404	an.	44000	40.6040
288	Miscellaneous specialties	3,684	SF	\$10.00	\$36,840
289 290	E2020 SPECIALTIES / MILLWORK TOTAL				\$36,840
290 291	TOTAL SYSTEM E20 FURNISHINGS				\$26,940
292	TOTAL STSTEM EZU FURNISHINGS				\$36,840
293					
294	F10 SPECIAL CONSTRUCTION				
295	TIO STEERIE CONSTRUCTION				
	F1010 SPECIAL CONSTRUCTION				
297	No anticipated work				\$0
298	F1010 SPECIAL CONSTRUCTION TOTAL				\$0
299					, -
<i>300</i>	TOTAL SYSTEM F10 SPECIAL CONSTRUCTION				\$0
<i>301</i>					
<i>302</i>					
<i>303</i>	F20 SELECTIVE DEMOLITION				
<i>304</i>					
<i>305</i>	F2020 SELECTIVE DEMOLITION				
<i>306</i>	Demolition of existing building allowance		SF		Main Summary
<i>307</i>	Haz mat removal allowance				Main Summary
<i>308</i>	F2020 SELECTIVE DEMOLITION TOTAL				\$0
<i>309</i>					
<i>310</i>	TOTAL SYSTEM F20 DEMOLITION				<u>\$0</u>
311					
<i>312</i>		Т	OTAL	TO SUMMARY	#REF!
<i>313</i>					



Providence, RI 44,900 GSF

MAIN SUMMARY - GREATER KENNEDY PLAZA RINK PAVING

	<u>DESCRIPTION</u>			<u>TOTAL</u>	<u>COST/SF</u>
1	Direct Trade Costs With Site				
2	Site Development		_	\$992,661	\$22.11
3	Direct Trade Cost SubTotal		_	\$992,661	\$22.11
4	Pricing Contingency	15.00%	\$992,661	\$148,899	\$3.32
5	Trade Cost SubTotal		_	\$1,141,560	\$25.42
6	General Conditions	5.75%	\$1,141,560	\$65,640	\$1.46
7	General Requirements	5.25%	\$1,207,200	\$63,378	\$1.41
8	Insurance	1.50%	\$1,270,578	\$19,059	\$0.42
9	Bond	0.65%	\$1,289,637	\$8,383	\$0.19
10	Permit	0.00%	\$1,298,019	\$0	\$0.00
11	Fee	3.00%	\$1,298,019	\$38,941	\$0.87
12	Estimated Construction Cost Total		_	\$1,336,960	\$29.78



Providence, RI 44,900 GSF

DIRECT COST SUMMARY - GREATER KENNEDY PLAZA RINK PAVING

	<u>ELEMENT</u>	<u>TOTAL</u>
	F20 FACILITY REMEDIATION	\$0
	F30 DEMOLITION	\$0
14 15	G10 SITE PREPARATION	\$182,961
	G20 SITE IMPROVEMENTS	\$809,700
18 19		1000 111
20 21	TOTAL	<u>\$992,661</u>
22 23 24		
25 26		
27 28		
29 30		
31 32		
33 34		
35 36		
37 38		
39 40 41		
41 42		



Providence, RI 44,900 GSF

SITEWORK DETAILS - GREATER KENNEDY PLAZA RINK PAVING

	<u>DESCRIPTION</u>	<u>QUANTITY</u>	<u>UNIT</u>	<u>UNIT COST</u>	<u>TOTAL</u>
11	F20 FACILITY REMEDIATION				
12					
13	F2010 Hazardous Materials Remediation				
14	Hazmat abatement/Soil Remediation				NIC
15	F20 FACILITY REMEDIATION TOTAL				\$0
16					
<i>17</i>					
18	F30 DEMOLITION				
19	70040 G				
20	F3010 Structure Demolition				NIC
21 22	Building demolition F30 DEMOLITION TOTAL				NIC \$0
23	PSU DEMOLITION TOTAL				φU
24					
25	G10 SITE PREPARATION				
26					
27	G1020 Site Demolition and Relocation				
28	02 41 00 Demolition				
29	Saw cut existing pavement	500	LF	\$5.00	\$2,500
<i>30</i>					
31	Protection of existing	1	AL	\$5,000.00	\$5,000
<i>32</i>					
<i>33</i>	Remove & dispose	1	AL	\$5,000.00	\$5,000
<i>34</i>	Remove drain line				Incl above
35	Remove control valves				Incl above
36	Remove surface edging				Incl above
37	Remove sewer line				Incl above Incl above
<i>38 39</i>	Remove concrete pad Remove tree				Incl above
<i>40</i>	Silt sock				Incl above
41	SHE SOCK				inci above
42	G1020.01 Building Demolition				
43	02 30 00 Building Demolition				
44	Building demoltion				See Above
45	<u> </u>				
46	G1030 Site Earthwork				
<i>47</i>	Rough grading	4,989	SY	\$1.50	\$7,484
48	Fine grading	44,900	SF	\$1.00	\$44,900
49	Cut and fill	5,820	CY	\$9.00	\$52,383
50	Gravel base	1,663	CY	\$38.00	\$63,194
	PUV Budget 30 Matrix 11 June 2021 Printed 6/11/2021	\odot		Detail Estimate Pa	e Rink Paving age 47 of 231

Providence, RI 44,900 GSF

SITEWORK DETAILS - GREATER KENNEDY PLAZA RINK PAVING

	<u>DESCRIPTION</u>	QUANTITY	<u>UNIT</u>	<u>UNIT COST</u>	<u>TOTAL</u>
51 52	Allow for miscellaneous repairs during construction	1	LS	\$2,500.00	\$2,500
53 54	G10 SITE PREPARATION TOTAL				\$182,961
55 56 57	G20 SITE IMPROVEMENTS				
58	G2010 Paving				
59	Misc. marking other than above	1	LS	\$1,500.00	\$1,500
60 61	G2030 Pedestrian Paving				NIC
62 63	32 13 10 Rigid Paving Concrete Paving	44,900	SF	\$18.00	NIC \$808,200
64 65	G20 SITE IMPROVEMENTS TOTAL				\$809,700
66 67					
68 69		TOTAL	SITEWO	ORK SUMMARY	\$992,661



Providence, RI 7,941 GSF

MAIN SUMMARY - WELCOME CENTER

	<u>DESCRIPTION</u>			<u>TOTAL</u>	COST/SF
11	Direct Trade Costs With Site				
<i>12</i>	New Construction	7,941	GSF	\$4,213,462	\$530.60
<i>13</i>	Site Development			Part of Kennedy P	laza
14					
15	Direct Trade Cost SubTotal			\$4,213,462	\$530.60
16					
<i>17</i>	Pricing Contingency	15.00%	\$4,213,462	\$632,019	\$79.59
18					
19	Direct Trade Cost Total			\$4,845,481	\$1.15
20					
21	General Conditions	5.25%	\$4,845,481	\$254,388	\$32.03
<i>22</i>	General Requirements	1.50%	\$5,099,869	\$76,498	\$9.63
<i>23</i>	Insurance	0.65%	\$5,176,367	\$33,646	\$4.24
24	Bonds	0.00%	\$5,210,013	\$0	\$0.00
25	Permits	3.00%	\$5,210,013	\$156,300	\$19.68
26	Fee	0.00%	\$5,366,314	\$0	\$0.00
<i>27</i>					
<i>28</i>	Estimated Construction Cost Total			\$5,366,314	\$675.77
29					
<i>30</i>					
<i>31</i>					
<i>32</i>					
<i>33</i>					
<i>34</i>					



Providence, RI 7,941 GSF

10	<u>ELEMENT</u>	<u>TOTAL</u>	COST/SF
11	A10 FOUNDATIONS	\$566,588	\$71.35
12 13	A20 BASEMENT	\$0	\$0.00
14 15	B10 STRUCTURE	\$336,822	\$42.42
16 17	B20 EXTERIOR CLOSURE	\$1,015,628	\$127.90
18 19	B30 ROOFING	\$197,805	\$24.91
20 21	C10 INTERIOR CONSTRUCTION	\$439,357	\$55.33
22 23	C20 STAIRCASES	\$0	\$0.00
24 25	C30 INTERIOR FINISHES		\$37.51
26		\$297,899	
27 28	D10 CONVEYING SYSTEMS	\$0	\$0.00
29 30	D20 PLUMBING	\$119,115	\$15.00
31 32	D30 HVAC	\$436,755	\$55.00
33 34	D40 FIRE PROTECTION	\$55,587	\$7.00
35	D50 ELECTRICAL	\$412,932	\$52.00
36 37	E10 EQUIPMENT	\$200,000	\$25.19
38 39	E20 FURNISHINGS	\$134,975	\$17.00
40 41	F10 SPECIAL CONSTRUCTION	\$0	\$0.00
42 43	F20 SELECTIVE DEMOLITION	\$0	\$0.00
44 45	TOTAL	\$4,213,462	<u>\$530.60</u>
46 47		<u> </u>	2220.00



Providence, RI 7,941 GSF

	<u>DIV.NO.</u>	<u>ELEMENTS</u>	<u>TOTAL</u>
11	A10	FOUNDATIONS	
<i>12</i>		Foundations	\$417,302
<i>13</i>		Slab on Grade	\$149,286
14		FOUNDATIONS TOTAL	\$566,588
15			
16			
<i>17</i>	A20	BASEMENT CONSTRUCTION	\$0
18			
19			
<i>20</i>	B10	STRUCTURE	
21		Upper Floor Construction	\$260,310
<i>22</i>		Roof Construction	\$76,512
<i>23</i>		STRUCTURE TOTAL	\$336,822
24			
<i>25</i>			
26	B20	EXTERIOR CLOSURE	
<i>27</i>		Exterior walls	\$548,488
28		Exterior windows	\$456,340
29		Exterior Doors	\$10,800
<i>30</i>		EXTERIOR CLOSURE TOTAL	\$1,015,628
<i>31</i>			
<i>32</i>			
<i>33</i>	B30	ROOFING	
34		Roof Coverings	\$197,805
<i>35</i>		ROOFING TOTAL	\$197,805
<i>36</i>			
<i>37</i>			
<i>38</i>	C10	INTERIOR CONSTRUCTION	
<i>39</i>		Partitions	\$161,455
40		Interior Doors, frames & Hardware	\$88,825
41		Fittings	\$189,077
<i>42</i>		INTERIOR CONSTRUCTION TOTAL	\$439,357
<i>43</i>			
44			
<i>45</i>	C20	STAIRCASES	
46		Staircases	\$0
<i>47</i>		STAIRCASES TOTAL	\$0
48			



Providence, RI 7,941 GSF

	DIV.NO.	<u>ELEMENTS</u>	<u>TOTAL</u>
49			
50	C30	INTERIOR FINISHES	
51	950	Wall finishes	\$97,853
<i>52</i>		Floor finishes	\$147,279
<i>53</i>		Ceiling finishes	\$52,768
54		INTERIOR FINISHES TOTAL	\$297,899
<i>55</i>			
56			
<i>57</i>	D10	VERTICAL MOVEMENT	
58		Conveying System	\$0
59		VERTICAL MOVEMENT TOTAL	\$0
<i>60</i>			
61			
62	D20	PLUMBING	†440.44 ■
63		Plumbing	\$119,115
64		PLUMBING TOTAL	\$119,115
65			
66 67	D30	HVAC	
68	שטט	HVAC	\$436,755
69		HVAC TOTAL	\$436,755
70		TIVILO TOTAL	Ψ130,733
71			
<i>72</i>	D40	FIRE PROTECTION	
<i>73</i>		Fire Protection	\$55,587
<i>74</i>		FIRE PROTECTION TOTAL	\$55,587
<i>75</i>			
76			
<i>77</i>	D50	ELECTRICAL	
<i>78</i>		Service and distribution	\$412,932
<i>79</i>		ELECTRICAL TOTAL	\$412,932
80			
81	5 40		
82	E10	EQUIPMENT	# 000 000
83		Institutional Equipment	\$200,000
84 05		EQUIPMENT TOTAL	\$200,000
85 86			
σo			



Providence, RI 7,941 GSF

	DIV.NO.	<u>ELEMENTS</u>	<u>_TOTAL</u>
87	E20	FURNISHINGS	
88	1120	Specialties / Millwork	\$134,975
89		FURNISHINGS TOTAL	\$134,975
90		TOMNISHINGS TOTAL	\$13 1 ,773
91			
92	F10	SPECIAL CONSTRUCTION	
93	F10		\$0
93 94		Special construction SPECIAL CONSTRUCTION TOTAL	\$0
		SPECIAL CONSTRUCTION TOTAL	20
95			
96	TO 0	CEL EGENTE DEMONTENON	
97	F20	SELECTIVE DEMOLITION	
98		Selective Demolition	\$0
99		SELECTIVE DEMOLITION TOTAL	\$0
<i>100</i>			
<i>101</i>			
102			
103	BUILDING	G TOTAL TRADE CONSTRUCTION COST	\$4,213,462
104			



Providence, RI 7,941 GSF

	DESCRIPTION	QUANTITY	<u>UNIT</u>	RATE/UNIT	TOTAL
11	A10 FOUNDATIONS				
<i>12</i>					
13	A1010 FOUNDATIONS				
14	Earthwork				
15	Slab-on-Grade platform preparation in Sitework Tab	7,941	SF		
16	Continuous footing w/foundation wall	465	LF		
<i>17</i>	Excavation	294.1	CY	\$12.00	See below
18	Backfill from import	189.1	CY	\$20.00	See below
19	Spread footings	21	EA		
20	Excavation	60.0	CY	\$12.00	See below
21	Backfill from import		CY	\$20.00	See below
<i>22</i>	Elevator pits - 8'-0"W x 8'-0"L x 5'-0"D	0	EA		
<i>23</i>	Excavation	0	CY	\$12.00	See below
24	Backfill from import	0.0	CY	\$20.00	See below
25	Disposal				
26	Cast to off-site waste	165	CY	\$22.00	See below
<i>27</i>	Grade & compact	7,941	SF	\$1.00	See below
28	12" base course sand & gravel below slab on grade	294.1	CY	\$25.00	See below
29					
<i>30</i>	Building over excavation:				
31	Over-excavation to remove topsoil	147	CY	\$8.00	\$1,176
<i>32</i>	50% Over-excavation Reused (stockpile on site)	74	CY	\$7.50	\$551
<i>33</i>	Dispose materials	74	CY	\$18.00	\$1,324
34	Structural fill	74	CY	\$28.00	\$2,059
35	D. H.P A				
36	Building Area:	204	CV	¢0.00	¢2.647
37	Cut and fill for building	294	CY	\$9.00	\$2,647
38 39	Gravel base to building	294	CY	\$38.00	\$11,176
40	Perimeter foundation drain	372	LF	\$18.00	\$6,696
41	Termieter roundation drain	372	DI.	\$10.00	ФО,О УО
42	Concrete				
43	Continuous footings; 3' x 1' 0" typ.	279	LF		
44	Concrete; material	33.0	CY	\$150.00	\$4,950
45	Concrete; material Concrete; place (combination of pumping/trucking)	33.0	CY	\$95.00	\$3,135
46	Reinforcement w/ftn wall dowels (10#/lf)	2,790	LB	\$1.15	\$3,133 \$3,209
47	Formwork	558	SF	\$1.13 \$12.00	\$5,209 \$6,696
47 48	Spread footings	21	Sr EA	φ12.UU	Ф 0,070
40 49	Concrete; material	103.0	CY	\$150.00	\$15,450
47	Concrete, indicinal	103.0	C1	\$130.00	φ13, 4 30



Providence, RI 7,941 GSF

	<u>DESCRIPTION</u>	QUANTITY	<u>UNIT</u>	RATE/UNIT	TOTAL
50	Concrete; place	103.0	CY	\$95.00	\$9,785
51	Reinforcement (150#/cy)	15,450	LB	\$1.15	\$17,768
<i>52</i>	Formwork	1,483	SF	\$12.00	\$17,796
<i>53</i>	Foundation/Basement walls; 12" thick	1,860	SF		
54	Concrete; material	72	CY	\$150.00	\$10,800
<i>55</i>	Concrete; place	72	CY	\$95.00	\$6,840
56	Reinforcement (150#/cy)	10,800	LB	\$1.15	\$12,420
<i>57</i>	Formwork	3,906	SF	\$9.00	\$35,154
58	Anchor bolts	83	SET	\$35.00	\$2,908
59	Miscellaneous concrete	1	LS	\$3,000.00	\$3,000
60					
61	Thermal & Moisture Protection				
<i>62</i>	2" rigid insulation at foundation walls	1,860	SF	\$2.75	\$5,115
<i>63</i>	Damp proofing to foundation walls	1,860	SF	\$5.00	\$9,300
64					
65	Special Foundation Conditions				
<i>66</i>	Soil improvements	7,941	SF	\$28.00	\$222,348
<i>67</i>	Dewatering during excavation	1	LS	\$5,000.00	\$5,000
68	A1010 FOUNDATIONS TOTAL				\$417,302
<i>69</i>					
0,					
70					
70 71	A1030 SLAB ON GRADE				
70	A1030 SLAB ON GRADE Concrete				
70 71		7,941	SF		
70 71 72 73 74	Concrete Slab on grade, 5" thick, WWF, top of slab 314' 0" Concrete; material	124	CY	\$150.00	\$18,529
70 71 72 73	Concrete Slab on grade, 5" thick, WWF, top of slab 314' 0" Concrete; material Concrete; place & finish	•	CY SF	\$150.00 \$2.75	\$18,529 \$21,838
70 71 72 73 74 75 76	Concrete Slab on grade, 5" thick, WWF, top of slab 314' 0" Concrete; material Concrete; place & finish Reinforcement (6x6 mesh)	124 7,941 9,132	CY SF SF	\$2.75 \$1.15	\$21,838 \$10,502
70 71 72 73 74 75	Concrete Slab on grade, 5" thick, WWF, top of slab 314' 0" Concrete; material Concrete; place & finish	124 7,941	CY SF	\$2.75 \$1.15 \$300.00	\$21,838
70 71 72 73 74 75 76	Concrete Slab on grade, 5" thick, WWF, top of slab 314' 0" Concrete; material Concrete; place & finish Reinforcement (6x6 mesh) Slab depressions Slab thickening at stair 5'x2'x1' deep	124 7,941 9,132	CY SF SF	\$2.75 \$1.15	\$21,838 \$10,502
70 71 72 73 74 75 76 77 78 79	Concrete Slab on grade, 5" thick, WWF, top of slab 314' 0" Concrete; material Concrete; place & finish Reinforcement (6x6 mesh) Slab depressions Slab thickening at stair 5'x2'x1' deep Slab on grade at loading dock, 6" thick, #4 bars	124 7,941 9,132 200 0 600	CY SF SF LF LOC SF	\$2.75 \$1.15 \$300.00 \$2,500.00	\$21,838 \$10,502 \$60,000 \$0
70 71 72 73 74 75 76 77	Concrete Slab on grade, 5" thick, WWF, top of slab 314' 0" Concrete; material Concrete; place & finish Reinforcement (6x6 mesh) Slab depressions Slab thickening at stair 5'x2'x1' deep	124 7,941 9,132 200 0	CY SF SF LF LOC	\$2.75 \$1.15 \$300.00	\$21,838 \$10,502 \$60,000
70 71 72 73 74 75 76 77 78 79	Concrete Slab on grade, 5" thick, WWF, top of slab 314' 0" Concrete; material Concrete; place & finish Reinforcement (6x6 mesh) Slab depressions Slab thickening at stair 5'x2'x1' deep Slab on grade at loading dock, 6" thick, #4 bars Concrete; material Concrete; place & finish	124 7,941 9,132 200 0 600	CY SF SF LF LOC SF	\$2.75 \$1.15 \$300.00 \$2,500.00	\$21,838 \$10,502 \$60,000 \$0
70 71 72 73 74 75 76 77 78 79 80 81 82	Concrete Slab on grade, 5" thick, WWF, top of slab 314' 0" Concrete; material Concrete; place & finish Reinforcement (6x6 mesh) Slab depressions Slab thickening at stair 5'x2'x1' deep Slab on grade at loading dock, 6" thick, #4 bars Concrete; material Concrete; place & finish Reinforcement; #4@12"bew	124 7,941 9,132 200 0 600 11.1	CY SF SF LF LOC SF CY	\$2.75 \$1.15 \$300.00 \$2,500.00 \$150.00	\$21,838 \$10,502 \$60,000 \$0 \$1,667
70 71 72 73 74 75 76 77 78 79 80 81 82 83	Concrete Slab on grade, 5" thick, WWF, top of slab 314' 0" Concrete; material Concrete; place & finish Reinforcement (6x6 mesh) Slab depressions Slab thickening at stair 5'x2'x1' deep Slab on grade at loading dock, 6" thick, #4 bars Concrete; material Concrete; place & finish Reinforcement; #4@12"bew Miscellaneous	124 7,941 9,132 200 0 600 11.1	CY SF SF LF LOC SF CY SF LBS	\$2.75 \$1.15 \$300.00 \$2,500.00 \$150.00 \$2.75 \$1.15	\$21,838 \$10,502 \$60,000 \$0 \$1,667 \$1,650 \$925
70 71 72 73 74 75 76 77 78 79 80 81 82 83 84	Concrete Slab on grade, 5" thick, WWF, top of slab 314' 0" Concrete; material Concrete; place & finish Reinforcement (6x6 mesh) Slab depressions Slab thickening at stair 5'x2'x1' deep Slab on grade at loading dock, 6" thick, #4 bars Concrete; material Concrete; place & finish Reinforcement; #4@12"bew Miscellaneous Housekeeping & mechanical equipment pads	124 7,941 9,132 200 0 600 11.1 600 804	CY SF SF LF LOC SF CY SF LBS	\$2.75 \$1.15 \$300.00 \$2,500.00 \$150.00 \$2.75 \$1.15	\$21,838 \$10,502 \$60,000 \$0 \$1,667 \$1,650 \$925
70 71 72 73 74 75 76 77 78 79 80 81 82 83 84 85	Concrete Slab on grade, 5" thick, WWF, top of slab 314' 0" Concrete; material Concrete; place & finish Reinforcement (6x6 mesh) Slab depressions Slab thickening at stair 5'x2'x1' deep Slab on grade at loading dock, 6" thick, #4 bars Concrete; material Concrete; place & finish Reinforcement; #4@12"bew Miscellaneous	124 7,941 9,132 200 0 600 11.1 600 804	CY SF SF LF LOC SF CY SF LBS	\$2.75 \$1.15 \$300.00 \$2,500.00 \$150.00 \$2.75 \$1.15	\$21,838 \$10,502 \$60,000 \$0 \$1,667 \$1,650 \$925
70 71 72 73 74 75 76 77 78 79 80 81 82 83 84	Concrete Slab on grade, 5" thick, WWF, top of slab 314' 0" Concrete; material Concrete; place & finish Reinforcement (6x6 mesh) Slab depressions Slab thickening at stair 5'x2'x1' deep Slab on grade at loading dock, 6" thick, #4 bars Concrete; material Concrete; place & finish Reinforcement; #4@12"bew Miscellaneous Housekeeping & mechanical equipment pads	124 7,941 9,132 200 0 600 11.1 600 804	CY SF SF LF LOC SF CY SF LBS	\$2.75 \$1.15 \$300.00 \$2,500.00 \$150.00 \$2.75 \$1.15	\$21,838 \$10,502 \$60,000 \$0 \$1,667 \$1,650 \$925

Providence, RI 7,941 GSF

	DESCRIPTION	QUANTITY	<u>UNIT</u>	RATE/UNIT	TOTAL
88	2" rigid insulation under slab	7,941	SF	\$2.65	\$21,044
89	Vapor retarder under slab	9,132	SF	\$1.00	\$9,132
90	A1030 SLAB ON GRADE TOTAL	•		_	\$149,286
91					
92	A10 FOUNDATIONS TOTAL			_	\$566,588
93				=	
94					
95	A20 BASEMENT				
96					
97	No anticipated work				
98					
99	TOTAL SYSTEM A20 BASEMENT			_	\$0
100				_	
101					
<i>102</i>	B10 STRUCTURE				
<i>103</i>					
104	B1010 UPPER FLOOR CONSTRUCTION				
105	Concrete				
<i>106</i>	Slab on deck topping, 2½" normal weight, WWF	0	SF		
<i>107</i>	Concrete; material	0.0	CY	\$150.00	\$0
<i>108</i>	Reinforcement (6x6 mesh)	0	SF	\$1.00	\$0
<i>109</i>	Rebar at corners and openings	0	LBS	\$1.15	\$0
<i>110</i>	Concrete; place & finish	0	SF	\$2.75	\$0
111					
112	Steel Framing	59	TNS		
113	Wide flange beams	31.0	TNS	\$3,700.00	\$114,700
114	W-shapes >100#/lf	4.0	TNS	\$4,200.00	\$16,800
115	WT-shapes		TNS	\$4,100.00	\$20,500
116	HSS-shapes	4.0	TNS	\$4,150.00	\$16,600
117	HSS columns	8.0	TNS	\$4,150.00	\$33,200
118	HSS brace frames	7.0	TNS	\$4,300.00	\$30,100
119	Plates, bent plates and angles	21	EA	\$75.00	\$1,558
120	Moment connections	1	LS	\$5,000.00	\$5,000
<i>121</i>	Shear studs	0	EA	\$5.00	\$0
122	2" deep x 20ga galv composite floor deck	0	SF	\$3.85	\$0
123	Mr. M. J.				
124	Miss. Metals	7.044	CE	ተ1 ୮ ቦ	¢11 012
125	Misc. metals	7,941	SF	\$1.50	\$11,912

Providence, RI 7,941 GSF

	DESCRIPTION	QUANTITY	<u>UNIT</u>	RATE/UNIT	TOTAL
126					
127	Thermal & Moisture Protection				
128	Firestopping	7,941	GSF	\$1.00	\$7,941
129	Fireproofing	1	LS	\$2,000.00	\$2,000
130	B1010 UPPER FLOOR CONSTRUCTION TOTAL			, _,	\$260,310
131					, , .
132	B1020 ROOF CONSTRUCTION				
133	Structural steel				
134	Roof deck	8,735	SF	\$3.85	\$33,630
<i>135</i>	Premium for galv acoustic roof deck	8,735	sf	\$3.00	\$26,205
136	Other misc plates, connections	8,735	SF	\$1.00	\$8,735
<i>137</i>	Rough blocking to roof	7,941	SF	\$1.00	\$7,941
138					
139	Mechanical roof top equipment				
<i>140</i>	Roof screen, galv, assume 13' high; HSS shapes				NIC
141	B1020 ROOF CONSTRUCTION TOTAL				\$76,512
142					
<i>143</i>	TOTAL SYSTEM B10 SUPERSTRUCTURE				\$336,822
144					
<i>145</i>					
146	B20 EXTERIOR CLOSURE	8,556 SF			
<i>147</i>					
<i>148</i>	B2010 EXTERIOR WALLS	4,092	sf		
149					
150	Exterior Veneer	1,414	SF	\$75.00	\$106,020
<i>151</i>	Insulation	1,414	SF	\$4.00	\$5,654
<i>152</i>	Air vapor barrier	1,414	SF	\$6.50	\$9,188
<i>153</i>	Gypsum sheathing	1,414	SF	\$3.35	\$4,736
<i>154</i>	Light Gage Metal Framing	1,414	SF	\$9.00	\$12,722
<i>155</i>	GWB to interior of exterior	1,414	SF	\$4.25	\$6,008
156	Caulking and sealants	1,414	SF	\$0.65	\$919
<i>157</i>					
<i>158</i>	Masonry	1,786	SF	\$35.00	\$62,496
159	Insulation	1,786	SF	\$4.00	\$7,142
<i>160</i>	Air vapor barrier	1,786	SF	\$5.50	\$9,821
161	Gypsum sheathing	1,786	SF	\$2.00	\$3,571
162	Light Gage Metal Framing	1,786	SF	\$8.00	\$14,285
163	GWB to interior of exterior	1,786	SF	\$2.25	\$4,018

Providence, RI 7,941 GSF

	DESCRIPTION	QUANTITY	<u>UNIT</u>	RATE/UNIT	TOTAL
164	Caulking and sealants	1,786	SF	\$0.65	\$1,161
<i>165</i>					
166	Exterior Veneer	893	SF	\$82.00	\$73,210
167	Insulation	893	SF	\$4.00	\$3,571
168	Air vapor barrier	893	SF	\$5.50	\$4,910
169	Gypsum sheathing	893	SF	\$2.00	\$1,786
170	Light Gage Metal Framing	893	SF	\$8.00	\$7,142
171 172	GWB to interior of exterior	893 893	SF SF	\$2.25 \$0.65	\$2,009 \$580
173	Caulking and sealants	093	SI	φ0.03	\$300
174	Miscellaneous				
175	Allow for precast trim pieces	1	LS	\$20,000.00	\$20,000
176	Allow for repairs to historical building	3,705	SF	\$35.00	\$129,675
177	Soffits	558	LS	\$7.00	\$3,906
178	Sills	298	LF	\$75.00	\$22,320
179	Miscellaneous metals in exterior closure	4,092	SF	\$1.00	\$4,092
180	Through wall sheet mtl flashing sheathing & rigid insul.	4,092	SF	\$0.50	\$2,046
181	Louvers	300	SF	\$85.00	\$25,500
182	B2010 EXTERIOR WALLS TOTAL			-	\$548,488
183					,
184	B2020 EXTERIOR WINDOWS	4,464	SF		
<i>185</i>	Curtain wall	1,860	SF	\$115.00	\$213,900
186	Storefront; Exterior	1,116	SF	\$95.00	\$106,020
<i>187</i>	Windows	1,488	SF	\$90.00	\$133,920
188	Blocking for windows	1	LS	\$1,500.00	\$1,500
189					
<i>190</i>	Mechanical louvers in exterior closure				
191	Window caulking	1	LS	\$1,000.00	\$1,000
192	B2020 EXTERIOR WINDOWS TOTAL				\$456,340
193					
194	B2030 EXTERIOR DOORS				
195	Aluminum entry doors including hardware	6	LEAF	\$3,800.00	\$22,800
196	Exterior; Overhead coiling door				\$0
<i>197</i>	Exterior doors; complete	6	LEAF	\$1,800.00	\$10,800
198	B2030 EXTERIOR DOORS TOTAL				\$10,800
199				_	
<i>200</i>	TOTAL SYSTEM B20 EXTERIOR CLOSURE			=	\$1,015,628
<i>201</i>					_



Providence, RI 7,941 GSF

	<u>DESCRIPTION</u> <u>QUANTITY</u> <u>UNIT</u>		RATE/UNIT	TOTAL	
202					
202 203	B30 ROOFING				
203 204	BSU RUUFING				
204	B3010 ROOF COVERINGS				
206	BJ010 R001 COVERINGS				
207	Roofing				
208	Roof System	8,735	SF	\$14.50	\$126,659
209	1/2" cover board	8,735	SF	\$1.85	\$16,160
210	6" insulation	8,735	SF	\$2.65	\$23,148
211	Vapor retarder	8,735	SF	\$0.65	\$5,678
212	1/2" substrate board	8,735	SF	\$1.85	\$16,160
<i>213</i>					
214	Roofing Accessories				
<i>215</i>	Miscellaneous roof accessories	1	LS	\$10,000.00	\$10,000
216	Roof screens				NIC
<i>217</i>	B3010 ROOF COVERINGS TOTAL				\$197,805
<i>218</i>					
219	TOTAL SYSTEM B30 ROOFING				\$197,805
<i>220</i>					
221					
222	C10 INTERIOR CONSTRUCTION				
223	C4 O4 O DA DENTINONO				
224	C1010 PARTITIONS				
225	Massymynautitions				
226	Masonry partitions Split food CMI partitions (masonry)	0	SF	¢24.00	¢ሰ
227 228	Split faced CMU partitions/masonry 8" CMU interior partitions	U	SF SF	\$34.00 \$25.00	\$0 \$0
	8" CMU elevator shaft wall	0	SF	\$23.00	\$0 \$0
230	o GMO elevator shart wan	U	JI.	\$20.00	φ0
231	Gypsum board partitions				
232	Drywall partitions	2,978	SF	\$14.00	\$41,690
233	Chasewalls	0	SF	\$16.50	\$0
234	Rough carpentry internal partitions and ceilings	7,941	SF	\$1.50	\$11,912
235	Misc metals for interior masonry (lintels, restraint)	0	SF	\$1.00	\$0
236		_			
237	Operable partition				
<i>238</i>	Folding partitions	1,000	SF	\$75.00	\$75,000
<i>239</i>					



Providence, RI 7,941 GSF

	<u>DESCRIPTION</u>	QUANTITY	<u>UNIT</u>	RATE/UNIT	TOTAL
240	Interior windows				
241	Interior window	300	SF	\$60.00	\$18,000
242					
243	Interior storefront				
244	Interior storefront	100	SF	\$85.00	\$8,500
245					
246	Interior penetration firestopping				
<i>247</i>	Interior caulking	7,941	GSF	\$0.50	\$3,971
248	Top-of-partition firestopping	7,941	GSF	\$0.30	\$2,382
249	C1010 PARTITIONS TOTAL			_	\$161,455
250					
251	C1020 INTERIOR DOORS, FRAMES & HARDWARE				
252	Hollow Metal Doors and Frames:				
<i>253</i>	Door frames	10	EA	\$300.00	\$3,000
254	Door frames for pair doors	4	EA	\$350.00	\$1,400
<i>255</i>	Doors	18	EA	\$325.00	\$5,850
256	Premium cost for acoustical doors	1	LS	\$1,500.00	\$1,500
<i>257</i>					
<i>258</i>	Aluminum-Framed Entrances and Storefronts:				
<i>259</i>	Interior aluminum entry doors	6	LVS	\$3,650.00	\$21,900
260					
261	Access Doors and Frames				
<i>262</i>	Access doors	10	EA	\$300.00	\$3,000
<i>263</i>	Powered door openers	4	LOC	\$3,500.00	\$14,000
264					
<i>265</i>	Door sidelights	500	SF	\$35.00	\$17,500
266	Glazing to doors	1	AL	\$1,500.00	\$1,500
<i>267</i>					
<i>268</i>	Hardware	18	SET	\$750.00	\$13,500
269	Paint door frames	14	EA	\$80.00	\$1,120
<i>270</i>	Paint door	18	EA	\$70.00	\$1,260
271	Blocking at doors	238	LF	\$2.50	\$595
272	Door Installation	18	EA	\$150.00	\$2,700
273	C1020 INTERIOR DOORS, FRAMES & HARDWARE TOTA	\L			\$88,825
274	24222				
275	C1030 FITTINGS				
276	TAY D.C. + 1	= 0.0	O.F.	400.00	444000
277	Wall finish	500	SF	\$22.00	\$11,000



Providence, RI 7,941 GSF

	DESCRIPTION	QUANTITY	<u>UNIT</u>	RATE/UNIT	TOTAL
278	Markerboards	500	SF	\$28.00	\$14,000
279	Combination Boards	200	SF	\$25.00	\$5,000
280				,	, , , , , , ,
281	Interior guardrails				
282	Guardrail	75	LF	\$550.00	\$41,250
<i>283</i>					
284	Signage				
285	Commemorative plaque	2	LOC	\$1,500.00	\$3,000
<i>286</i>	Dimensional characters; name	1	AL	\$5,000.00	\$5,000
287	Plastic panel signs for room identification, way finding, hazard identification	1	AL	\$7,500.00	\$7,500
<i>288</i>	Framed paper signs	1	AL	\$2,500.00	\$2,500
<i>289</i>	Miscellaneous signage	7,941	GSF	\$1.35	\$10,720
<i>290</i>					
291	Wall & corner guards				
292 293	Stainless steel corner guards	1	LS	\$1,000.00	\$1,000
294	Toilet compartments (Solid Polymer)				
295	Toilet compartments	2	EA	\$1,200.00	\$2,400
296	Toilet compartments - ADA	2	EA	\$1,400.00	\$2,800
297	•			. ,	,
298	Metal lockers				
299	Lockers	1	AL	\$10,000.00	\$10,000
<i>300</i>	Staff lockers, single tier, 12" x 12" x 6' high	6	EA	\$250.00	\$1,500
<i>301</i>					
<i>302</i>	Toilet accessories				
<i>303</i>	Combination PTD/WR unit	2	EA	\$150.00	\$300
<i>304</i>	Paper towel dispensers	1	EA	\$100.00	\$100
<i>305</i>	Soap dispensers	1	EA	\$35.00	\$35
<i>306</i>	Toilet paper dispensers	1	EA	\$65.00	\$65
<i>307</i>	Sanitary napkin disposal units	1	EA	\$250.00	\$167
<i>308</i>	Robe hook	2	EA	\$25.00	\$50
<i>309</i>	Grab bars	4	PR	\$160.00	\$640
<i>310</i>	Mirrors - in gang bathrooms	1	EA	\$300.00	\$300
<i>311</i>	Mirrors - in private bathrooms	1	EA	\$150.00	\$150
<i>312</i>	Mop holder w/shelf (Janitors)	3	EA	\$200.00	\$600
<i>313</i>					
<i>314</i>	Fire extinguisher cabinets				

Providence, RI 7,941 GSF

	<u>DESCRIPTION</u>	QUANTITY	<u>UNIT</u>	RATE/UNIT	TOTAL
315	Fully recessed/non-rated	2	EA	\$450.00	\$900
316	Semi-recessed/non-rated	2	EA	\$300.00	\$600
317	•				
318	Projection screens				
319	Motorized projection screen	1	EA	\$7,500.00	\$7,500
<i>320</i>					
<i>321</i>	Residential appliance				
<i>322</i>	Allow for appliances	1	LS	\$50,000.00	\$50,000
<i>323</i>					
<i>324</i>	Miscellaneous fittings	1	LS	\$10,000.00	\$10,000
<i>325</i>	C1030 FITTINGS TOTAL				\$189,077
<i>326</i>					
<i>327</i>	TOTAL SYSTEM C10 INTERIOR CONSTRUCTION				\$439,357
<i>328</i>					
<i>329</i>					
<i>330</i>	C20 STAIRCASES				
331					
<i>332</i>	C2010 STAIRCASES				
333	Interior stairs				
<i>334</i>	Egress stairs				NIC
335	Concrete to metal pan stairs				NIC
336					
337	Stair finishes				
338	Railings	1	LS		NIC
339	Rubber flooring	0	SF	\$8.00	NIC
340	Rubber flooring (Risers)	0	LF	\$15.50	NIC
341	C2010 STAIRCASES TOTAL				\$0
342					
	TOTAL C20 STAIRCASES				<u>\$0</u>
344					
345	COO INTERNOR TINIGHTS				
346	C30 INTERIOR FINISHES				
347	C2040 MALL FINICHES				
348	C3010 WALL FINISHES	4 000	CE	#10.00	#10.000
349	Ceramic tile walls	1,000	SF	\$18.00	\$18,000
350 251	Column covers	5	EA	\$3,500.00	\$17,500
351 252	Composite panels	500	SF	\$35.00	\$17,500
<i>352</i>	Fabric wrapped fiberglass panels		SF	\$15.00	NIC



Providence, RI 7,941 GSF

	DESCRIPTION	QUANTITY	<u>UNIT</u>	RATE/UNIT	TOTAL
353 354 355 356	Fixed sound -absorbing wood fiber/fabric Miscellaneous wall finish Paint C3010 WALL FINISHES TOTAL	1,000 7,941	SF SF GSF	\$15.00 \$25.00 \$2.50	NIC \$25,000 \$19,853 \$97,853
357 358	C3020 FLOOR FINISHES	7,941			
<i>359</i>	Tile:				
<i>360</i>	Ceramic/porcelain tile floors	718	SF	\$25.00	\$17,950
<i>361</i>					
<i>362</i>	Flooring				
363	Flooring	7,089	SF	\$6.00	\$42,534
364	Base	1	LS	\$50,000.00	\$50,000
365 366	Dainting				
367	Painting Sealed concrete	4,650	SF	\$1.50	\$6,975
368	Scaled controle	4,030	JI	Ψ1.50	Ψ0,773
369	Entrance mats				
<i>370</i>	Mat	852	SF	\$35.00	\$29,820
<i>371</i>	C3020 FLOOR FINISHES TOTAL				\$147,279
<i>372</i>					
<i>373</i>	C3030 CEILING FINISHES				
<i>374</i>	Acoustical ceilings	6,829	SF	\$6.00	\$40,976
<i>375</i>	GWB ceilings	715	SF	\$15.00	\$10,720
<i>376</i>	Paint GWB ceilings	715	SF	\$1.50	\$1,072
377	C3030 CEILING FINISHES TOTAL				\$52,768
378					
379	TOTAL SYSTEM C30 INTERIOR FINISHES				\$297,899
380 381					
382	D10 CONVEYING SYSTEMS				
383	DIO CONVETING SISTEMS				
384	D1010 CONVEYING SYSTEMS				
385	Elevators	0	EA		\$0
386	Elevator pit ladder	0	EA		\$0
387	Sill angles	0	LF		\$0
388	Hoist beam	0	EA		\$0
389	D1010 CONVEYING SYSTEMS TOTAL				\$0
<i>390</i>					



Providence, RI 7,941 GSF

	DESCRIPTION QUANTITY UNIT		RATE/UNIT	TOTAL	
391 392	TOTAL SYSTEM D10 CONVEYING SYSTEMS				\$0
393					
394	D15 MECHANICAL				
<i>395</i>					
396	D20 PLUMBING				
<i>397</i>	Plumbing	7,941	SF	\$15.00	\$119,115
<i>398</i>	D20 PLUMBING TOTAL			_	\$119,115
399					
400	D30 HVAC				
401	HVAC	7,941	SF	\$55.00 <u> </u>	\$436,755
<i>402</i>	D30 HVAC TOTAL				\$436,755
<i>403</i>					
		7,941	SF	\$7.00 <u> </u>	\$55,587
	D40 FIRE PROTECTION TOTAL				\$55,587
				_	
	TOTAL SYSTEM D15 MECHANICAL			_	\$611,457
	D50 ELECTRICAL				
	DE044 CEDUICE & DICEDIDITION				
_		7 041	CE	¢E2.00	ф412 O22
		7,941	3F	\$52.00_	
	DSUIT SERVICE & DISTRIBUTION TOTAL				\$412,93 2
	TOTAL SYSTEM DEA ELECTRICAL			_	\$412 022
	TOTAL STSTEM DOUBLECTRICAL			=	\$412,93 <u>2</u>
	E10 FOHIPMENT				
	ETO EGOT MENT				
	E1020 INSTITUTIONAL EQUIPMENT				
	~	1	AL	\$200.000.00	\$200,000
				_	\$200,000
425	•				• • • •
	TOTAL SYSTEM E10 FITTINGS & EQUIPMENT			_	\$200,000
427	, and the second se			=	· · ·
<i>428</i>					
403 404 405 406 407 408 409 410 411 412 413 414 415 416 417 418 419 420 421 422 423 424 425 426 427	D30 HVAC TOTAL D40 FIRE PROTECTION Sprinkler Coverage D40 FIRE PROTECTION TOTAL TOTAL SYSTEM D15 MECHANICAL D50 ELECTRICAL D5011 SERVICE & DISTRIBUTION Interior Electrical D5011 SERVICE & DISTRIBUTION TOTAL TOTAL SYSTEM D50 ELECTRICAL E10 EQUIPMENT E1020 INSTITUTIONAL EQUIPMENT Allow for equipment E1020 INSTITUTIONAL EQUIPMENT TOTAL TOTAL SYSTEM E10 FITTINGS & EQUIPMENT	7,941	SF SF	\$7.00 \$52.00 \$200,000.00	\$436,7 \$55,5 \$55,5 \$611,4 \$412,9 \$412,9 \$412,9 \$200,0 \$200,0



Providence, RI 7,941 GSF

	<u>DESCRIPTION</u>	PTION QUANTITY UNIT		RATE/UNIT	TOTAL
429	E20 FURNISHINGS				
430					
431	E2020 SPECIALTIES / MILLWORK				
432	Finish Carpentry				
433	Misc millwork standing and running trim	7,941	SF	\$4.00	\$31,764
434					
435	<u>Furnishings</u>				
436	Casework	7,941	SF	\$6.00	\$47,646
437					
<i>438</i>	Furnishings miscellaneous metals	7,941	SF	\$2.50	\$19,853
439					
<i>440</i>	Window treatment	4,464	SF	\$8.00	\$35,712
441					
442	E2020 SPECIALTIES / MILLWORK TOTAL				\$134,975
443					
444	TOTAL SYSTEM E20 FURNISHINGS				<u>\$134,975</u>
445					
446					
447	F10 SPECIAL CONSTRUCTION				
448	TAGAG CONTOUR				
449	F1010 SPECIAL CONSTRUCTION				† 0
450	No work in this section				\$0
451	F1010 SPECIAL CONSTRUCTION TOTAL				\$0
452	TOTAL OVERTIME TAR OFFICIAL CONCERNATION				
453	TOTAL SYSTEM F10 SPECIAL CONSTRUCTION				<u>\$0</u>
454					
455	FOR CELECTIVE DEMOLITION				
	F20 SELECTIVE DEMOLITION				
457 458	F2020 SELECTIVE DEMOLITION				
450 459	Demolition of existing building allowance		SF		Main Cummany
460	Haz mat removal allowance		SI,		Main Summary Main Summary
461	F2020 SELECTIVE DEMOLITION TOTAL				\$0
462	12020 SELECTIVE DEMOLITION TOTAL				ΨU
463	TOTAL SYSTEM F20 DEMOLITION				\$0
464	TO THE STOTE OF TWO DEPOSITION				0
465			ΓΩΤΔΙ	TO SUMMARY	\$4,213,462
466			IUIAL	10 John Mi	ΨΤ,ΔΙΟ,ΤΟΔ
100					



Providence, RI 1,488 GSF

MAIN SUMMARY - BIG SHADE

	<u>DESCRIPTION</u>			<u>TOTAL</u>	COST/SF
11	Direct Trade Costs With Site				
12	New Construction	1,488	GSF	\$2,523,823	\$1,696.12
<i>13</i>	Site Development			Part of Kennedy I	Plaza
14					
15	Direct Trade Cost SubTotal			\$2,523,823	\$1,696.12
16					
<i>17</i>	Pricing Contingency	15.00%	\$2,523,823	\$378,573	\$254.42
18					
19	Direct Trade Cost Total			\$2,902,396	\$1.15
20					
21	General Conditions	5.25%	\$2,902,396	\$152,376	\$102.40
<i>22</i>	General Requirements	1.50%	\$3,054,772	\$45,822	\$30.79
<i>23</i>	Insurance	0.65%	\$3,100,594	\$20,154	\$13.54
24	Bonds	0.00%	\$3,120,748	\$0	\$0.00
25	Permits	3.00%	\$3,120,748	\$93,622	\$62.92
<i>26</i>	Fee	0.00%	\$3,214,370	\$0	\$0.00
<i>27</i>					
<i>28</i>	Estimated Construction Cost Total			\$3,214,370	\$2,160.19
<i>29</i>					
<i>30</i>					
<i>31</i>					
<i>32</i>					
<i>33</i>					



Providence, RI 1,488 GSF

DIRECT COST SUMMARY - BIG SHADE

	<u>ELEMENT</u>	<u>TOTAL</u>	COST/SF
10 11	A10 FOUNDATIONS	\$332,378	\$223.37
12 13	B10 STRUCTURE	\$208,602	\$140.19
14 15	B20 EXTERIOR CLOSURE	\$638,124	\$428.85
16 17	B30 ROOFING	\$88,566	\$59.52
18 19	C10 INTERIOR CONSTRUCTION	\$407,023	\$273.54
20 21	C20 STAIRCASES	\$0	\$0.00
22 23	C30 INTERIOR FINISHES	\$231,333	\$155.47
24 25	D10 CONVEYING SYSTEMS	\$0	\$0.00
26 27	D20 PLUMBING	\$22,320	\$15.00
28 29	D30 HVAC	\$81,840	\$55.00
30 31	D40 FIRE PROTECTION	\$10,416	\$7.00
32 33	D50 ELECTRICAL	\$92,256	\$62.00
34 35	E10 EQUIPMENT	\$300,000	\$201.61
36 37	E20 FURNISHINGS	\$110,964	\$74.57
38 39	F10 SPECIAL CONSTRUCTION	\$0	\$0.00
40 41	F20 SELECTIVE DEMOLITION	\$0	\$0.00
42 43	TOTAL	<u>\$2.523,823</u>	<u>#######</u>
44 45			



Providence Unified Vision Big ShadeProvidence, RI

1,488 GSF

DIRECT COST SUMMARY - BIG SHADE

	<u>DIV.NO.</u>	<u>ELEMENTS</u>	_TOTAL
11	A10	FOUNDATIONS	
<i>12</i>		Foundations	\$245,013
<i>13</i>		Slab on Grade	\$87,365
14		FOUNDATIONS TOTAL	\$332,378
15			
16			
<i>17</i>	B10	STRUCTURE	
18		Upper Floor Construction	\$198,548
19		Roof Construction	\$10,054
20		STRUCTURE TOTAL	\$208,602
21			
<i>22</i>			
<i>23</i>	B20	EXTERIOR CLOSURE	
24		Exterior walls	\$303,904
<i>25</i>		Exterior windows	\$323,420
<i>26</i>		Exterior Doors	\$10,800
<i>27</i>		EXTERIOR CLOSURE TOTAL	\$638,124
28			
29			
<i>30</i>	B30	ROOFING	
31		Roof Coverings	\$88,566
32		ROOFING TOTAL	\$88,566
33			
34	64.0	INTERPLOD CONCERNICATION	
35	C10	INTERIOR CONSTRUCTION	¢10F 020
<i>36</i>		Partitions	\$195,930
37		Interior Doors, frames & Hardware	\$78,078
38		Fittings INTERIOR CONSTRUCTION TOTAL	\$133,015
39 40		INTERIOR CONSTRUCTION TOTAL	\$407,023
40 41			
42	C20	STAIRCASES	
43	C20	Staircases	\$0
43 44		STAIRCASES TOTAL	\$0
44 45		JIMMONJEJ IVINE	φU
46			
47	C30	INTERIOR FINISHES	
48	350	Wall finishes	\$81,720
	Rudgat 20 Ma		Summary Big Shade
1011	Juuget 30 Ma	atrix 11 June 2021 miyakoda	Summary Dig Shaue

Printed 6/11/2021



Providence, RI 1,488 GSF

DIRECT COST SUMMARY - BIG SHADE

	<u>DIV.NO.</u>	<u>ELEMENTS</u>	<u>TOTAL</u>
49		Floor finishes	\$139,725
50		Ceiling finishes	\$9,888
51		INTERIOR FINISHES TOTAL	\$231,333
<i>52</i>			
<i>53</i>			
54	D10	VERTICAL MOVEMENT	
<i>55</i>		Conveying System	\$0
56		VERTICAL MOVEMENT TOTAL	\$0
<i>57</i>			
58			
59	D20	PLUMBING	.
60		Plumbing	\$22,320
61		PLUMBING TOTAL	\$22,320
62			
63 64	D30	HVAC	
65	שטט	HVAC	\$81,840
66		HVAC TOTAL	\$81,840
67		HVIIG TOTAL	Ψ01,040
68			
69	D40	FIRE PROTECTION	
70	2.10	Fire Protection	\$10,416
<i>71</i>		FIRE PROTECTION TOTAL	\$10,416
<i>72</i>			·
<i>73</i>			
74	D50	ELECTRICAL	
<i>75</i>		Service and distribution	\$92,256
<i>76</i>		ELECTRICAL TOTAL	\$92,256
<i>77</i>			
<i>78</i>			
<i>79</i>	E10	EQUIPMENT	
80		Institutional Equipment	\$300,000
81		EQUIPMENT TOTAL	\$300,000
82			
83	EOO	ELIDNICHINGC	
84 05	E20	FURNISHINGS Specialties / Millwork	¢110.074
85 86		Specialties / Millwork FURNISHINGS TOTAL	\$110,964 \$110,964
	D., deat 20 M		
PUV I	buaget 30 Ma	atrix 11 June 2021 miyakoda	Summary Big Shade

PUV Budget 30 Matrix 11 June 2021 Printed 6/11/2021



Providence, RI 1,488 GSF

DIRECT COST SUMMARY - BIG SHADE

	DIV.NO.	<u>ELEMENTS</u>	<u>TOTAL</u>
87			
88			
	Г10	CDECIAL CONCEDITORION	
89	F10	SPECIAL CONSTRUCTION	
90		Special construction	\$0
91		SPECIAL CONSTRUCTION TOTAL	
92			
93			
94	F20	SELECTIVE DEMOLITION	
95		Selective Demolition	\$0
96		SELECTIVE DEMOLITION TOTAL	
97			
98			
99			
100	BUILDING	G TOTAL TRADE CONSTRUCTION COST	\$2,523,823
101			



Providence, RI 1,488 GSF

	ESCRIPTION QUANTITY UNIT		<u>UNIT</u>	RATE/UNIT	TOTAL
11	A10 FOUNDATIONS				
12					
<i>13</i>	A1010 FOUNDATIONS				
14	Earthwork				
15	Slab-on-Grade platform preparation in Sitework Tab	992	SF		
16	Continuous footing w/foundation wall	288	LF		
<i>17</i>	Excavation	367.4	CY	\$12.00	See below
18	Backfill from import	199.4	CY	\$20.00	See below
19	Spread footings	10	EA		
20	Excavation	29.0	CY	\$12.00	See below
21	Backfill from import		CY	\$20.00	See below
<i>22</i>	Elevator pits - 8'-0"W x 8'-0"L x 5'-0"D	0	EA		
<i>23</i>	Excavation	0	CY	\$12.00	See below
24	Backfill from import	0.0	CY	\$20.00	See below
25	Disposal				
<i>26</i>	Cast to off-site waste	197	CY	\$22.00	See below
<i>27</i>	Grade & compact	992	SF	\$1.00	See below
28	12" base course sand & gravel below slab on grade	36.7	CY	\$25.00	See below
29					
<i>30</i>	Building over excavation:				
<i>31</i>	Over-excavation to remove topsoil	18	CY	\$8.00	\$147
32	50% Over-excavation Reused (stockpile on site)	9	CY	\$7.50	\$69
33	Dispose materials	9	CY	\$18.00	\$165
34	Structural fill	9	CY	\$28.00	\$257
<i>35</i>	Duilding Aron				
36 37	Building Area:	37	CY	\$9.00	\$331
38	Cut and fill for building Gravel base to building	37 37	CY	\$38.00	\$331 \$1,396
<i>39</i>	draver base to building	37	CI	Ψ30.00	Ψ1,570
40	Perimeter foundation drain	230	LF	\$18.00	\$4,140
41				410.00	+ 1,1 10
42	Concrete				
43	Continuous footings; 3' x 1' 0" typ.	288	LF		
44	Concrete; material	34.0	CY	\$150.00	\$5,100
45	Concrete; place (combination of pumping/trucking)	34.0	CY	\$95.00	\$3,230
46	Reinforcement w/ftn wall dowels (10#/lf)	2,875	LB	\$1.15	\$3,306
47	Formwork	575	SF	\$12.00	\$6,900
48	Spread footings	10	EA	7.2.00	, 3,7 3 0
49	Concrete; material	50.0	CY	\$150.00	\$7,500
		22.0		, 200.00	, , , , , , ,



Providence, RI 1,488 GSF

	DESCRIPTION	QUANTITY	<u>UNIT</u>	RATE/UNIT	TOTAL
50	Concrete; place	50.0	CY	\$95.00	\$4,750
51	Reinforcement (150#/cy)	7,500	LB	\$1.15	\$8,625
<i>52</i>	Formwork	716	SF	\$12.00	\$8,592
<i>53</i>	Foundation/Basement walls; 12" thick	3,450	SF		
54	Concrete; material	134	CY	\$150.00	\$20,100
<i>55</i>	Concrete; place	134	CY	\$95.00	\$12,730
56	Reinforcement (150#/cy)	20,100	LB	\$1.15	\$23,115
<i>57</i>	Formwork	7,245	SF	\$9.00	\$65,205
58	Brick shelf	288	LF	\$5.00	\$1,438
59	Anchor bolts	40	SET	\$35.00	\$1,403
<i>60</i>	Miscellaneous concrete	1	LS	\$10,000.00	\$10,000
61					
<i>62</i>	Thermal & Moisture Protection				
<i>63</i>	2" rigid insulation at foundation walls	3,450	SF	\$2.75	\$9,488
64	Damp proofing to foundation walls	3,450	SF	\$5.00	\$17,250
65					
<i>66</i>	Special Foundation Conditions				
<i>67</i>	Soil improvements	992	SF	\$28.00	\$27,776
68	Dewatering during excavation	1	LS	\$2,000.00	\$2,000
<i>69</i>	A1010 FOUNDATIONS TOTAL				\$245,013
<i>70</i>					
71					
<i>72</i>	A1030 SLAB ON GRADE				
<i>73</i>	Concrete				
<i>74</i>	Slab on grade, 5" thick, WWF, top of slab 314' 0"	992	SF		
<i>75</i>	Concrete; material	15	CY	\$150.00	\$2,315
76	Concrete; place & finish	992	SF	\$2.75	\$2,728
77	Reinforcement (6x6 mesh)	1,141	SF	\$1.15	\$1,312
<i>78</i>	Slab depressions	200	LF	\$300.00	\$60,000
79	Slab thickening at stair 5'x2'x1' deep	0	LOC	\$2,500.00	\$0
80	Slab on grade at loading dock, 6" thick, #4 bars	600	SF		**
81	Concrete; material	11.1	CY	\$150.00	\$1,667
82	Concrete; place & finish	600	SF	\$2.75	\$1,650
83	Reinforcement; #4@12"bew	804	LBS	\$1.15	\$925
84	Miscellaneous		1.0	#2.000.00	40.000
85	Housekeeping & mechanical equipment pads	1	LS	\$3,000.00	\$3,000
86	Miscellaneous concrete	1	LS	\$10,000.00	\$10,000
<i>87</i>					

Providence, RI 1,488 GSF

	DESCRIPTION	QUANTITY	<u>UNIT</u>	RATE/UNIT	TOTAL
88	Thermal & Moisture Protection				
89	2" rigid insulation under slab	992	SF	\$2.65	\$2,629
90	Vapor retarder under slab	1,141	SF	\$1.00	\$1,141
91	A1030 SLAB ON GRADE TOTAL	,		· <u> </u>	\$87,365
92					·
93	A10 FOUNDATIONS TOTAL			_	\$332,378
94					· · · · · · · · · · · · · · · · · · ·
95					
96	B10 STRUCTURE				
97					
98	B1010 UPPER FLOOR CONSTRUCTION				
99	Concrete				
100	Slab on deck topping, 2½" normal weight, WWF	496	SF		
101	Concrete; material	6.9	CY	\$150.00	\$1,033
<i>102</i>	Reinforcement (6x6 mesh)	546	SF	\$1.00	\$546
103	Rebar at corners and openings	27	LBS	\$1.15	\$31
104	Concrete; place & finish	496	SF	\$2.75	\$1,364
105					
<i>106</i>	Steel Framing	40	TNS		
<i>107</i>	Wide flange beams	25.0	TNS	\$3,700.00	\$92,500
<i>108</i>	W-shapes >100#/lf	4.0	TNS	\$4,200.00	\$16,800
<i>109</i>	WT-shapes	2.0	TNS	\$4,100.00	\$8,200
110	HSS-shapes	1.0	TNS	\$4,150.00	\$4,150
111	HSS columns	4.0	TNS	\$4,150.00	\$16,600
<i>112</i>	HSS brace frames	4.0	TNS	\$4,300.00	\$17,200
113	Plates, bent plates and angles	10	EA	\$75.00	\$752
114	Moment connections	1	LS	\$5,000.00	\$5,000
115	Shear studs	70	EA	\$5.00	\$350
116	2" deep x 20ga galv composite floor deck	496	SF	\$3.85	\$1,910
117					
118	Misc. Metals	4.400	C.F.	#10.00	#1.4.000
119	Misc. metals	1,488	SF	\$10.00	\$14,880
120	The second O Merica on Description				
121	Thermal & Moisture Protection	1 400	CCE	¢1 F0	ቀ ጋ ጋጋጋ
122	Firestopping	1,488		\$1.50	\$2,232
123	Fireproofing	1	LS	\$15,000.00	\$15,000
124	B1010 UPPER FLOOR CONSTRUCTION TOTAL				\$198,548
<i>125</i>					

Providence, RI 1,488 GSF

	DESCRIPTION	QUANTITY	<u>UNIT</u>	RATE/UNIT	TOTAL
126	B1020 ROOF CONSTRUCTION				
<i>127</i>	Structural steel				
<i>128</i>	Roof deck	1,091	SF	\$3.85	\$4,201
129	Premium for galv acoustic roof deck	1,091	sf	\$3.00	\$3,274
<i>130</i>	Other misc plates, connections	1,091	SF	\$1.00	\$1,091
131	Rough blocking to roof	1,488	SF	\$1.00	\$1,488
132					
133	Mechanical roof top equipment				
134	Roof screen, galv, assume 13' high; HSS shapes				NIC
<i>135</i>	B1020 ROOF CONSTRUCTION TOTAL				\$10,054
136					
<i>137</i>	TOTAL SYSTEM B10 SUPERSTRUCTURE				\$208,602
138					
139					
<i>140</i>	B20 EXTERIOR CLOSURE	6,003 SF			
141					
142	B2010 EXTERIOR WALLS	2,871	sf		
<i>143</i>					
144	Exterior Veneer	992	SF	\$85.00	\$84,303
145	Insulation	992	SF	\$4.00	\$3,967
146	Air vapor barrier	992	SF	\$6.50	\$6,447
<i>147</i>	Gypsum sheathing	992	SF	\$3.35	\$3,323
<i>148</i>	Light Gage Metal Framing	992	SF	\$9.00	\$8,926
149	GWB to interior of exterior	992	SF	\$4.25	\$4,215
150	Caulking and sealants	992	SF	\$0.65	\$645
151					
<i>152</i>	Masonry	1,253	SF	\$38.00	\$47,606
<i>153</i>	Insulation	1,253	SF	\$4.00	\$5,011
154	Air vapor barrier	1,253	SF	\$5.50	\$6,890
155	Gypsum sheathing	1,253	SF	\$2.00	\$2,506
<i>156</i>	Light Gage Metal Framing	1,253	SF	\$8.00	\$10,022
<i>157</i>	GWB to interior of exterior	1,253	SF	\$2.25	\$2,819
<i>158</i>	Caulking and sealants	1,253	SF	\$0.65	\$814
159					
<i>160</i>	Exterior Veneer	626	SF	\$87.00	\$54,497
161	Insulation	626	SF	\$4.00	\$2,506
162	Air vapor barrier	626	SF	\$5.50	\$3,445
163	Gypsum sheathing	626	SF	\$2.00	\$1,253



Providence, RI 1,488 GSF

	DESCRIPTION	QUANTITY	<u>UNIT</u>	RATE/UNIT	TOTAL
164	Light Gage Metal Framing	626	SF	\$8.00	\$5,011
165	GWB to interior of exterior	626	SF	\$2.25	\$1,409
166	Caulking and sealants	626	SF	\$0.65	\$407
167				,	
168	Miscellaneous				
169	Allow for precast trim pieces	1	LS	\$0.00	\$0
<i>170</i>	Soffits	345	LS	\$7.00	\$2,415
171	Sills	209	LF	\$75.00	\$15,660
<i>172</i>	Miscellaneous metals in exterior closure	2,871	SF	\$1.00	\$2,871
<i>173</i>	Through wall sheet mtl flashing sheathing & rigid insul.	2,871	SF	\$0.50	\$1,436
<i>174</i>	Louvers	300	SF	\$85.00	\$25,500
<i>175</i>	B2010 EXTERIOR WALLS TOTAL			_	\$303,904
<i>176</i>					
<i>177</i>	B2020 EXTERIOR WINDOWS	3,132	SF		
<i>178</i>	Curtain wall	1,305	SF	\$115.00	\$150,075
<i>179</i>	Storefront; Exterior	783	SF	\$95.00	\$74,385
180	Windows	1,044	SF	\$90.00	\$93,960
181	Blocking for windows	1	LS	\$2,000.00	\$2,000
<i>182</i>					
<i>183</i>	Mechanical louvers in exterior closure				
184	Window caulking	1	LS	\$3,000.00	\$3,000
185	B2020 EXTERIOR WINDOWS TOTAL				\$323,420
<i>186</i>					
<i>187</i>	B2030 EXTERIOR DOORS				
188	Aluminum entry doors including hardware	6	LEAF	\$3,800.00	\$22,800
189	Exterior; Overhead coiling door				\$0
190	Exterior doors; complete	6	LEAF	\$1,800.00	\$10,800
191	B2030 EXTERIOR DOORS TOTAL				\$10,800
192				_	
193	TOTAL SYSTEM B20 EXTERIOR CLOSURE			_	\$638,124
194					
195					
	B30 ROOFING				
<i>197</i>					
198	B3010 ROOF COVERINGS				
199					
	Roofing				
<i>201</i>	Roof System	1,091	SF	\$65.00	\$70,928

Providence, RI 1,488 GSF

	DESCRIPTION	QUANTITY	<u>UNIT</u>	RATE/UNIT	TOTAL
202	1/2" cover board	1,091	SF	\$1.85	\$2,019
203	6" insulation	1,091	SF	\$2.65	\$2,892
204	Vapor retarder	1,091	SF	\$0.65	\$709
205	1/2" substrate board	1,091	SF	\$1.85	\$2,019
206	,	,		•	. ,
<i>207</i>	Roofing Accessories				
208	Miscellaneous roof accessories	1	LS	\$10,000.00	\$10,000
209	Roof screens				NIC
210	B3010 ROOF COVERINGS TOTAL				\$88,566
211					
<i>212</i>	TOTAL SYSTEM B30 ROOFING				\$88,566
<i>213</i>					
<i>214</i>					
<i>215</i>	C10 INTERIOR CONSTRUCTION				
216					
<i>217</i>	C1010 PARTITIONS				
<i>218</i>					
219	Masonry partitions				
<i>220</i>	Split faced CMU partitions/masonry	0	SF	\$34.00	\$0
<i>221</i>	8" CMU interior partitions	558	SF	\$25.00	\$13,950
<i>222</i>	8" CMU elevator shaft wall	0	SF	\$28.00	\$0
<i>223</i>					
224	Gypsum board partitions				
225	Drywall partitions	0	SF	\$14.00	\$0
226	Chasewalls	0	SF	\$16.50	\$0
227	Rough carpentry internal partitions and ceilings	1,488	SF	\$1.50	\$2,232
228	Misc metals for interior masonry (lintels, restraint)	558	SF	\$1.00	\$558
229	0 11				
230	Operable partition	1 000	CE	Ф7 Г 00	φ 7 Ε 000
231	Folding partitions	1,000	SF	\$75.00	\$75,000
232	Interview windows				
233	Interior windows	200	CE	¢(0,00	¢10.000
234 235	Interior window	300	SF	\$60.00	\$18,000
	Interior storefront				
236 237	Interior storefront Interior storefront	1,000	SF	\$85.00	\$85,000
238	interior storenout	1,000)I	\$00.UU	φο 3, 000
239	Interior penetration firestopping				
437	πιτεποι μεπετιατιοπ μι επομριπία				



Providence, RI 1,488 GSF

	<u>DESCRIPTION</u>	QUANTITY	<u>UNIT</u>	RATE/UNIT	TOTAL
240	Interior caulking	1,488	GSF	\$0.50	\$744
241	Top-of-partition firestopping	1,488		\$0.30	\$446
242	C1010 PARTITIONS TOTAL			_	\$195,930
243					
244	C1020 INTERIOR DOORS, FRAMES & HARDWARE				
245	Hollow Metal Doors and Frames:				
246	Door frames	8	EA	\$300.00	\$2,400
<i>247</i>	Door frames for pair doors	3	EA	\$350.00	\$1,050
<i>248</i>	Doors	14	EA	\$325.00	\$4,550
<i>249</i>	Premium cost for acoustical doors	1	LS	\$1,500.00	\$1,500
250					
<i>251</i>	Aluminum-Framed Entrances and Storefronts:				
<i>252</i>	Interior aluminum entry doors	5	LVS	\$3,650.00	\$18,250
<i>253</i>					
254	Access Doors and Frames				
255	Access doors	8	EA	\$300.00	\$2,400
<i>256</i>	Powered door openers	4	LOC	\$3,500.00	\$14,000
<i>257</i>					
<i>258</i>	Door sidelights	500	SF	\$35.00	\$17,500
<i>259</i>	Glazing to doors	1	AL	\$1,500.00	\$1,500
<i>260</i>					
261	Hardware		SET	\$750.00	\$10,500
<i>262</i>	Paint door frames	11	EA	\$80.00	\$880
<i>263</i>	Paint door	14	EA	\$70.00	\$980
264	Blocking at doors	187	LF	\$2.50	\$468
<i>265</i>	Door Installation	14	EA	\$150.00	\$2,100
266	C1020 INTERIOR DOORS, FRAMES & HARDWARE TOTA	L			\$78,078
267					
	C1030 FITTINGS				
269	W. N.C	200	an	400.00	.
270	Wall finish	300	SF	\$22.00	\$6,600
271	Markerboards	350	SF	\$28.00	\$9,800
272273	Combination Boards	100	SF	\$25.00	\$2,500
273 274	Interior guardrails				
274 275	Guardrail	0	LF	\$550.00	\$0
275 276	duai di dii	U	ΠI.	Ψ330.00	ΨΟ
277 277	Signage				
	- U - U -				



Providence, RI 1,488 GSF

	<u>DESCRIPTION</u>	QUANTITY	<u>UNIT</u>	RATE/UNIT	TOTAL
278	Commemorative plaque	2	LOC	\$1,500.00	\$3,000
<i>279</i>	Dimensional characters; name	1	AL	\$5,000.00	\$5,000
280	Plastic panel signs for room identification, way finding,	1	AL	\$7,500.00	\$7,500
	hazard identification	4			
281	Framed paper signs	1 400	AL	\$2,500.00	\$2,500
282 283	Miscellaneous signage	1,488	GSF	\$1.35	\$2,009
284	Wall & corner guards				
285	Stainless steel corner guards	1	LS	\$1,000.00	\$1,000
286	Statificss steer corner guards	•	Ц	Ψ1,000.00	Ψ1,000
287	Toilet compartments (Solid Polymer)				
288	Toilet compartments	2	EA	\$1,200.00	\$2,400
289	Toilet compartments - ADA	2	EA	\$1,400.00	\$2,800
<i>290</i>	•				
<i>291</i>	Metal lockers				
<i>292</i>	Lockers	1	AL	\$10,000.00	\$10,000
<i>293</i>	Staff lockers, single tier, 12" x 12" x 6' high	6	EA	\$250.00	\$1,500
294					
<i>295</i>	Toilet accessories				
<i>296</i>	Combination PTD/WR unit	2	EA	\$150.00	\$300
<i>297</i>	Paper towel dispensers	1	EA	\$100.00	\$100
298	Soap dispensers	1	EA	\$35.00	\$35
299	Toilet paper dispensers	1	EA	\$65.00	\$65
300	Sanitary napkin disposal units	1	EA	\$250.00	\$167
301	Robe hook	2	EA	\$25.00	\$50
<i>302 303</i>	Grab bars Mirrors - in gang bathrooms	4 1	PR EA	\$160.00 \$300.00	\$640 \$300
304	Mirrors - in gaing bathrooms Mirrors - in private bathrooms	1	EA	\$300.00 \$150.00	\$300 \$150
	Mop holder w/shelf (Janitors)	3	EA	\$200.00	\$600
306	Mop holder Wyshen (uniters)	3	ши	Ψ200.00	ΨΟΟΟ
307	Fire extinguisher cabinets				
308	Fully recessed/non-rated	2	EA	\$450.00	\$900
309	Semi-recessed/non-rated	2	EA	\$300.00	\$600
<i>310</i>	•				
<i>311</i>	Projection screens				
<i>312</i>	Motorized projection screen	1	EA	\$7,500.00	\$7,500
<i>313</i>					
314	Residential appliance				

Providence, RI 1,488 GSF

	DESCRIPTION	QUANTITY	<u>UNIT</u>	RATE/UNIT	<u>]</u>	ΓΟΤΑL
315	Allow for appliances	1	LS	\$50,000.00		\$50,000
316	• •			·		·
317	Miscellaneous fittings	1	LS	\$15,000.00		\$15,000
318	C1030 FITTINGS TOTAL					5133,015
319						
<i>320</i>	TOTAL SYSTEM C10 INTERIOR CONSTRUCTION				5	407,023
<i>321</i>						
<i>322</i>						
<i>323</i>	C20 STAIRCASES					
<i>324</i>						
<i>325</i>	C2010 STAIRCASES					
<i>326</i>	Interior stairs					
<i>327</i>	Egress stairs				NIC	
<i>328</i>	Concrete to metal pan stairs				NIC	
<i>329</i>						
<i>330</i>	Stair finishes					
331	Railings	1	_		NIC	
<i>332</i>	Rubber flooring	0	SF	\$8.00	NIC	
333	Rubber flooring (Risers)	0	LF	\$15.50	NIC	
334	C2010 STAIRCASES TOTAL					\$0
<i>335</i>						
336	TOTAL C20 STAIRCASES					\$0
337						
338						
339	C30 INTERIOR FINISHES					
340						
341	C3010 WALL FINISHES	4 000	an.	44000		440000
342		1,000	SF	\$18.00		\$18,000
343	Column covers	5	EA	\$3,500.00		\$17,500
344	Composite panels	500	SF	\$35.00	NIC	\$17,500
345	Fabric wrapped fiberglass panels		SF	\$15.00		
346	Fixed sound -absorbing wood fiber/fabric	1 000	SF	\$15.00	NIC	ተ ጋሮ <u></u>
347	Miscellaneous wall finish	1,000	SF	\$25.00		\$25,000
348	Paint C2010 WALL FINISHES TOTAL	1,488	GSF	\$2.50		\$3,720
349 350	C3010 WALL FINISHES TOTAL					\$81,720
350 351	C3020 FLOOR FINISHES	1,488				
351 352	Tile:	1,400				
334	1116.					



Providence, RI 1,488 GSF

	<u>DESCRIPTION</u>	QUANTITY	<u>UNIT</u>	RATE/UNIT	TOTAL
<i>353</i>	Ceramic/porcelain tile floors	718	SF	\$25.00	\$17,950
<i>354</i>					
<i>355</i>	Flooring				
<i>356</i>	Flooring	636	SF	\$55.00	\$34,980
<i>357</i>	Base	1	LS	\$50,000.00	\$50,000
<i>358</i>					
<i>359</i>	Painting				
<i>360</i>	Sealed concrete	4,650	SF	\$1.50	\$6,975
361					
<i>362</i>	Entrance mats				
<i>363</i>	Mat	852	SF	\$35.00	\$29,820
<i>364</i>	C3020 FLOOR FINISHES TOTAL				\$139,725
<i>365</i>					
366	C3030 CEILING FINISHES				
<i>367</i>	Acoustical ceilings	1,280		\$6.00	\$7,678
368	GWB ceilings	134		\$15.00	\$2,009
369	Paint GWB ceilings	134	SF	\$1.50	\$201
<i>370</i>	C3030 CEILING FINISHES TOTAL				\$9,888
<i>371</i>				_	
<i>372</i>	TOTAL SYSTEM C30 INTERIOR FINISHES			=	\$231,333
<i>373</i>					
<i>374</i>					
<i>375</i>	D10 CONVEYING SYSTEMS				
<i>376</i>					
377	D1010 CONVEYING SYSTEMS				
<i>378</i>	Elevators	0			\$0
<i>379</i>	Elevator pit ladder	0	EA		\$0
<i>380</i>	Sill angles	0	LF		\$0
	Hoist beam	0	EA	_	\$0
382	D1010 CONVEYING SYSTEMS TOTAL				\$0
383				_	
384	TOTAL SYSTEM D10 CONVEYING SYSTEMS			=	\$0
385					
386					
387	D15 MECHANICAL				
388					
389	D20 PLUMBING		C.T.	44 = 00	
390	Plumbing	1,488	SF	\$15.00	\$22,320



Providence, RI 1,488 GSF

	DESCRIPTION	QUANTITY	<u>UNIT</u>	RATE/UNIT	TOTAL
391	D20 PLUMBING TOTAL			_	\$22,320
<i>392</i>					
<i>393</i>	D30 HVAC				
<i>394</i>	HVAC	1,488	SF	\$55.00_	\$81,840
<i>395</i>	D30 HVAC TOTAL				\$81,840
<i>396</i>					
<i>397</i>	D40 FIRE PROTECTION				
<i>398</i>	Sprinkler Coverage	1,488	SF	\$7.00_	\$10,416
399	D40 FIRE PROTECTION TOTAL				\$10,416
400				_	
<i>401</i>	TOTAL SYSTEM D15 MECHANICAL			=	\$114,576
<i>402</i>					
<i>403</i>					
	D50 ELECTRICAL				
<i>405</i>					
406	D5011 SERVICE & DISTRIBUTION				
<i>407</i>	Interior Electrical	1,488	SF	\$62.00 _	\$92,256
<i>408</i>	D5011 SERVICE & DISTRIBUTION TOTAL				\$92,256
409				_	
<i>410</i>	TOTAL SYSTEM D50 ELECTRICAL			=	\$92,256
411					
412					
413	E10 EQUIPMENT				
414					
415	E1020 INSTITUTIONAL EQUIPMENT			+00000000	+
416	Allow for equipment	1	AL	\$300,000.00	\$300,000
	E1020 INSTITUTIONAL EQUIPMENT TOTAL				\$300,000
418	TOTAL OVERTILE DATE DISTRICT OF TOTAL DATE.			_	4222
	TOTAL SYSTEM E10 FITTINGS & EQUIPMENT			=	\$300,000
420					
421	F20 PHDMICHINGS				
422	E20 FURNISHINGS				
423	E2020 CDECIALTIES / MILLWODY				
	E2020 SPECIALTIES / MILLWORK				
425 426	Finish Carpentry Miss millwork standing and running trim	1,488	SF	\$20.00	¢20.760
426 427	Misc millwork standing and running trim	1,468	ЭГ	\$ 4 0.00	\$29,760
427 428	<u>Furnishings</u>				



Providence, RI 1,488 GSF

	DESCRIPTION	QUANTITY	<u>UNIT</u>	RATE/UNIT	TOTAL
429	Casework	1,488	SF	\$20.00	\$29,760
430 431 432	Furnishings miscellaneous metals	1,488	SF	\$3.00	\$4,464
432 433 434	Window treatment	3,132	SF	\$15.00	\$46,980
435 436	E2020 SPECIALTIES / MILLWORK TOTAL				\$110,964
437 438	TOTAL SYSTEM E20 FURNISHINGS				\$110,964
439 440 441	F10 SPECIAL CONSTRUCTION				
442	F1010 SPECIAL CONSTRUCTION				
443	No work in this section				\$0
	F1010 SPECIAL CONSTRUCTION TOTAL				\$0
445 446 447	TOTAL SYSTEM F10 SPECIAL CONSTRUCTION				\$0
	F20 SELECTIVE DEMOLITION				
450 451	F2020 SELECTIVE DEMOLITION				
452	Demolition of existing building allowance		SF		Main Summary
453 454 455	Haz mat removal allowance F2020 SELECTIVE DEMOLITION TOTAL				Main Summary \$0
456 457	TOTAL SYSTEM F20 DEMOLITION				\$0
458			TOTAL	TO SUMMARY	#REF!
<i>459</i>					



Providence, RI 5,828 GSF

MAIN SUMMARY - GREATER KENNEDY PLAZA LEARN ISLAND

	<u>DESCRIPTION</u>			<u>TOTAL</u>	COST/SF
1	Direct Trade Costs With Site				
2	Site Development			\$585,691	\$100.50
3	Direct Trade Cost SubTotal			\$585,691	\$100.50
4	Pricing Contingency	15.00%	\$585,691	\$87,854	\$15.07
5	Trade Cost SubTotal		_	\$673,545	\$115.57
6	General Conditions	5.75%	\$673,545	\$38,729	\$6.65
7	General Requirements	5.25%	\$712,273	\$37,394	\$6.42
8	Insurance	1.50%	\$749,668	\$11,245	\$1.93
9	Bond	0.65%	\$760,913	\$4,946	\$0.85
10	Permit	0.00%	\$765,859	\$0	\$0.00
11	Fee	3.00%	\$765,859	\$22,976	\$3.94
<i>12</i>	Estimated Construction Cost Total		_	\$788,835	\$135.35



Providence, RI 5,828 GSF

<u>DIRECT COST SUMMARY - GREATER KENNEDY PLAZA NEW LEARN ISLAND</u>

	<u>ELEMENT</u>	<u>TOTAL</u>
11 12	F20 FACILITY REMEDIATION	\$0
13 14	F30 DEMOLITION	\$0
	G10 SITE PREPARATION	\$26,401
17 18	G20 SITE IMPROVEMENTS	\$544,290
19 20	G30 SITE CIVIL/MECHANICAL UTILITIES	\$15,000
	G40 SITE ELECTRICAL UTILITIES	\$0
<i>23</i>	TOTAL	<u>\$585,691</u>
25 26		
27 28		
29 30		
31 32		
33 34 35		
36 37		
38 39		
40 41		
42 43		
44 45		
46		



Providence, RI 5,828 GSF

SITEWORK DETAILS - GREATER KENNEDY PLAZA LEARN ISLAND

	<u>DESCRIPTION</u>	QUANTITY	<u>UNIT</u>	<u>UNIT COST</u>	<u>TOTAL</u>
11	F20 FACILITY REMEDIATION				
<i>12</i>					
<i>13</i>	F2010 Hazardous Materials Remediation				
14	Hazmat abatement/Soil Remediation				NIC
15	F20 FACILITY REMEDIATION TOTAL				\$0
16					
<i>17</i>					
18	F30 DEMOLITION				
19					
20	F3010 Structure Demolition				
21	Building demolition				NIC
22	F30 DEMOLITION TOTAL				\$0
23					
24	CAO CITE DDEDADATION				
25 26	G10 SITE PREPARATION				
20 27	G1010 Site Clearing				
28	31 10 00 Site Clearing				
29	Construction fence, install, maintain, remove & reinstall;	431	LF	\$12.00	\$5,172
30	Double construction gate	1	PR	\$2,500.00	\$2,500
31	Contractor parking	•	1 1	Ψ2,500.00	W/General Con
<i>32</i>	Contractor staging and laydown area	583	SF	\$2.00	\$1,166
33	Temp signs	1	LS	\$500.00	\$500
34	Wash down/re-fueling/parking allowance	_	20	4500.00	W/General Con
35	wasin as wife rationally parising and wante				my delicitud deli
36	G1020 Site Demolition and Relocation				
<i>37</i>	02 41 00 Demolition				
<i>38</i>	Protection of existing	1	AL	\$2,000.00	\$2,000
<i>39</i>					
40	Cutting and patching	1	AL	\$1,000.00	\$1,000
41					
<i>42</i>	G1030 Site Earthwork				
<i>43</i>	Soils Characterization and Disposal; allowance				W/Kennedy
<i>44</i>	Rock excavation				NIC
45	Rough grading	648	SY	\$1.50	\$972
46	Fine grading	5,828	SF	\$1.00	\$5,828
47	Cut and fill	108	CY	\$9.00	\$971
48	Gravel base	108	CY	\$38.00	\$4,104
49	Spread loam	108	CY	\$11.00	\$1,188
50	Allow for miscellaneous repairs during construction	1	LS	\$1,000.00	\$1,000
	PUV Budget 30 Matrix 11 June 2021 Printed 6/11/2021		De	etail Est Kennedy Pa	Learn Island
1				1 (-5- 00 01 201

Providence, RI 5,828 GSF

SITEWORK DETAILS - GREATER KENNEDY PLAZA LEARN ISLAND

	<u>DESCRIPTION</u>	<u>QUANTITY</u>	<u>UNIT</u>	<u>UNIT COST</u>	<u>TOTAL</u>	
51 52 53	G10 SITE PREPARATION TOTAL				\$26,401	<u> </u>
54 55	G20 SITE IMPROVEMENTS					
56						
<i>57</i>	G2030 Pedestrian Paving					
58	32 13 10 Rigid Paving				NIC	
59	Granite unit pavers	1,500	SF	\$65.00	\$97,500)
<i>60</i>	Wood Deck	4,328	SF	\$55.00	\$238,040)
61	Brick Paving	0	SF	\$50.00	\$0)
<i>62</i>	Stabilized Decomposed Granite Paving	0	SF	\$65.00	\$0)
<i>63</i>						
64	G2040 Site Development					
65	G2040.01 Fences and Gates					
<i>66</i>						
<i>67</i>	G2040.02 Site and Street Furnishes					
68	Signage	1	EA	\$500.00	\$500)
<i>69</i>	Remove & reinstall Soldier & Sailor Moment					
70	Tree planters	0	EA	\$1,200.00	\$0)
<i>71</i>	Long Benches	0	LF	\$250.00	\$0)
<i>72</i>	Long Curved benches	147	LF	\$500.00	\$73,500)
<i>73</i>	Communal table	0	AL	\$15,000.00	\$0)
<i>74</i>	Café Seating	9	EA	\$5,000.00	\$45,000)
<i>75</i>	Brick bench at Overlook	0	EA	\$7,500.00	\$0)
76	Curved bench at Overlook	0	EA	\$20,000.00	\$0)
<i>77</i>	Platform	243	SF	\$250.00	\$60,750)
<i>78</i>	Elevated edge seating	0	LF	\$500.00	\$0)
<i>7</i> 9	Miscellaneous site improvements	1	LS	\$5,000.00	\$5,000)
80						
81	G2050.02 Lawns and Grasses					
<i>82</i>	32 92 00 Turfs and Grasses				NIC	
<i>83</i>	Sod	0	SF	\$1.50	\$0)
84						
85	G2050.03 Trees, Plants and Ground Covers				NIC	
<i>86</i>	Trees	16	EA	\$1,500.00	\$24,000)
<i>87</i>	Bioswale planting	0	SF	\$35.00	\$0)
88	Raised planters	0	SF	\$20.00	\$0)
89						
90	G20 SITE IMPROVEMENTS TOTAL				\$544,290)
I	PUV Budget 30 Matrix 11 June 2021		De	etail Est Kennedy	Learn Island	



Providence, RI 5,828 GSF

<u>SITEWORK DETAILS - GREATER KENNEDY PLAZA LEARN ISLAND</u>

	<u>DESCRIPTION</u>	<u>QUANTITY</u>	<u>UNIT</u>	<u>UNIT COST</u>	<u>TOTAL</u>
91					
92					
93	G30 SITE CIVIL/MECHANICAL UTILITIES				
94					
95	G3010 Water Utilities				W/Kennedy
96					
<i>97</i>	G3020 Sanitary Sewerage Utilities				\$0
98					
99	G3030 Storm Drainage Utilities	1	LS	\$15,000.00	\$15,000
100	GOOD GO WILLIAM				
101	G3040 Gas Utilities				
102	33 50 00 Gas Service				NIC
103 104	Connection to existing gas main Gas Line Trench				NIC NIC
104 105	Gas Line Hench				NIC
105	G30 SITE CIVIL/MECHANICAL UTILITIES TOTAL				\$15,000
107	diso site civily meditividie offerings forme				Ψ13,000
108					
109	G40 SITE ELECTRICAL UTILITIES				
110					
111	G4010 Site Electrical Utilities				
112	Site lighting				W/Kennedy
<i>113</i>					
114	G40 SITE ELECTRICAL UTILITIES TOTAL				\$0
<i>115</i>					
116					
<i>117</i>		TOTAL S	SITEWC	ORK SUMMARY	\$585,691
118					



Providence, RI 8,139 GSF

MAIN SUMMARY - BIG SHADE CANOPY

	<u>DESCRIPTION</u>			<u>TOTAL</u>	COST/SF
11	Direct Trade Costs With Site				
<i>12</i>	New Construction	8,139	GSF	\$2,023,708	\$248.64
<i>13</i>	Site Development			Part of Kennedy P	laza
14					
15	Direct Trade Cost SubTotal			\$2,023,708	\$248.64
16					
<i>17</i>	Pricing Contingency	15.00%	\$2,023,708	\$303,556	\$37.30
18					
19	Direct Trade Cost Total			\$2,327,264	\$1.15
20			to oo= o	+100101	.
21	General Conditions	5.25%	\$2,327,264	\$122,181	\$15.01
<i>22</i>	General Requirements	1.50%	\$2,449,446	\$36,742	\$4.51
<i>23</i>	Insurance	0.65%	\$2,486,187	\$16,160	\$1.99
24	Bonds	0.00%	\$2,502,347	\$0	\$0.00
<i>25</i>	Permits	3.00%	\$2,502,347	\$75,070	\$9.22
26	Fee	0.00%	\$2,577,418	\$0	\$0.00
<i>27</i>				_	
<i>28</i>	Estimated Construction Cost Total			\$2,577,418	\$316.68
29					
<i>30</i>					
<i>31</i>					
<i>32</i>					





Providence, RI 8,139 GSF

DIRECT COST SUMMARY - BIG SHADE CANOPY

	<u>ELEMENT</u>	<u>TOTAL</u>	COST/SF
10			
11	A10 FOUNDATIONS	\$250,714	\$30.80
12		+ •	+
13	A20 BASEMENT	\$0	\$0.00
14 15	B10 STRUCTURE	\$748,788	\$92.00
16		4. 20,. 00	77 = 10 0
17	B30 ROOFING	\$698,646	\$85.84
18			
19	D50 ELECTRICAL	\$162,780	\$20.00
20			
21	E10 EQUIPMENT	\$0	\$0.00
<i>22</i>			
<i>23</i>	E20 FURNISHINGS	\$162,780	\$20.00
24			
<i>25</i>	TOTAL	<u>\$2,023,708</u>	<u>\$248.64</u>
<i>26</i>			
<i>27</i>			



Providence, RI 8,139 GSF

DIRECT COST SUMMARY - BIG SHADE CANOPY

	<u>DIV.NO.</u>	<u>ELEMENTS</u>	_TOTAL
11	A10	FOUNDATIONS	
12		Foundations	\$250,714
<i>13</i>		FOUNDATIONS TOTAL	\$250,714
14			
15			
16	A20	BASEMENT CONSTRUCTION	\$0
<i>17</i>			
18			
19	B10	STRUCTURE	
20		Roof Construction	\$748,788_
21		STRUCTURE TOTAL	\$748,788
22			
23	D00	DOOFFING	
24	B30	ROOFING	¢(00 (4(
25 26		Roof Coverings ROOFING TOTAL	\$698,646
26 27		ROOFING TOTAL	\$698,646
28			
29	D50	ELECTRICAL	
30	D30	Service and distribution	\$162,780
31		ELECTRICAL TOTAL	\$162,780
32			\$10 2, 7.00
33			
<i>34</i>	E10	EQUIPMENT	
<i>35</i>		Institutional Equipment	NIC
<i>36</i>		EQUIPMENT TOTAL	<u>**0</u>
<i>37</i>			
<i>38</i>			
<i>39</i>	E20	FURNISHINGS	
40		Specialties / Millwork	\$162,780
41		FURNISHINGS TOTAL	\$162,780
42			
43	D	C TOTAL TRADE CONCERNATION COST	40.000 700
44	BUILDING	G TOTAL TRADE CONSTRUCTION COST	\$2,023,708
45			



Providence, RI 8,139 GSF

DETAILED ESTIMATE - BIG SHADE CANOPY

	<u>DESCRIPTION</u>	QUANTITY UNIT		RATE/UNIT	TOTAL
11	A10 FOUNDATIONS				
<i>12</i>					
<i>13</i>	A1010 FOUNDATIONS				
14	Sonotube and excavation	9.0	EA	\$1,000.00	\$9,000
	Perimeter drain	401	LF	\$22.00	\$8,822
16					
<i>17</i>	Special Foundation Conditions				
18	Soil improvements	8,139	SF	\$28.00	\$227,892
19	Dewatering during excavation	1	LS	\$5,000.00	\$5,000
20	A1010 FOUNDATIONS TOTAL				\$250,714
21					
<i>22</i>	A10 FOUNDATIONS TOTAL				\$250,714
<i>23</i>					
24					
25	A20 BASEMENT				
26					
<i>27</i>	No anticipated work				
28					
29	TOTAL SYSTEM A20 BASEMENT				\$0
<i>30</i>					
31					
<i>32</i>	B10 STRUCTURE				
<i>33</i>					
34	B1020 ROOF CONSTRUCTION				
<i>35</i>	Structure	8,139	SF	\$85.00	\$691,815
<i>36</i>	Misc. metals	8,139	SF	\$5.00	\$40,695
<i>37</i>	Rough blocking to roof	8,139	SF	\$2.00	\$16,278
<i>38</i>					
<i>39</i>	Mechanical roof top equipment				
40	Roof screen, galv, assume 13' high; HSS shapes				NIC
41	B1020 ROOF CONSTRUCTION TOTAL				\$748,788
<i>42</i>					
<i>43</i>	TOTAL SYSTEM B10 SUPERSTRUCTURE				\$748,788
44				•	
45					
46	B30 ROOFING				
<i>47</i>					
48	B3010 ROOF COVERINGS				



Providence, RI 8,139 GSF

DETAILED ESTIMATE - BIG SHADE CANOPY

	DESCRIPTION	QUANTITY	<u>UNIT</u>	RATE/UNIT	TOTAL
40					
49 50	Doofing				
50 51	Roofing Roof System	9,930	SF	\$65.00	\$645,450
<i>52</i>	1/2" cover board	9,930	SF	\$1.85	\$18,371
<i>53</i>	Vapor retarder	9,930	SF	\$0.65	\$6,455
54	1/2" substrate board	9,930	SF	\$1.85	\$18,371
<i>55</i>	1/2 Substrace board	3,750	01	Ψ1.00	Ψ10,071
56	Roofing Accessories				
<i>57</i>	Miscellaneous roof accessories	1	LS	\$10,000.00	\$10,000
58	Roof screens			,	NIC
59	B3010 ROOF COVERINGS TOTAL				\$698,646
<i>60</i>					
61	TOTAL SYSTEM B30 ROOFING				\$698,646
<i>62</i>					
<i>63</i>					
64	D50 ELECTRICAL				
65					
<i>66</i>	D5011 SERVICE & DISTRIBUTION				
<i>67</i>	Allow for lighting	8,139	SF	\$20.00	\$162,780
68	D5011 SERVICE & DISTRIBUTION TOTAL				\$162,780
<i>69</i>					
70	TOTAL SYSTEM D50 ELECTRICAL				\$162,780
<i>71</i>					
<i>72</i>					
73	E10 EQUIPMENT				
74					
<i>75</i>	E1020 INSTITUTIONAL EQUIPMENT				NA C
76	Allow for equipment				NIC
77 70	E1020 INSTITUTIONAL EQUIPMENT TOTAL				NIC
78 79	TOTAL SYSTEM E10 FITTINGS & EQUIPMENT				\$0
80	TOTAL STSTEM ETO FITTINGS & EQUIPMENT				<u> </u>
81					
81 82	E20 FURNISHINGS				
<i>83</i>	EZU FUMNISHINUS				
os 84	E2020 SPECIALTIES / MILLWORK				
85	Finish Carpentry				
86	Misc millwork standing and running trim	8,139	SF	\$20.00	\$162,780
00	and running trin	0,107	01	Ψ20.00	Ψ102,700



Providence, RI 8,139 GSF

DETAILED ESTIMATE - BIG SHADE CANOPY

	DESCRIPTION	QUANTITY UNIT	RATE/UNIT	TOTAL
87	E2020 SPECIALTIES / MILLWORK TOTAL		-	\$162,780
88 89	TOTAL SYSTEM E20 FURNISHINGS		-	\$162,780
90			-	
91			_	
92		TOTAL	TO SUMMARY	\$2,023,708
93			_	



Providence, RI 15,422 GSF

MAIN SUMMARY - GREATER KENNEDY PLAZA MEET ISLAND

	<u>DESCRIPTION</u>			<u>TOTAL</u>	COST/SF
1	Direct Trade Costs With Site				
2	Site Development			\$1,112,405	\$72.13
<i>3</i>	Direct Trade Cost SubTotal		_	\$1,112,405	\$72.13
<i>4 5</i>	Pricing Contingency Trade Cost SubTotal	15.00%	\$1,112,405 _	\$166,861 \$1,279,266	\$10.82 \$82.95
6	General Conditions	5.75%	\$1,279,266	\$73,558	\$4.77
7	General Requirements	5.25%	\$1,352,824	\$71,023	\$4.61
8	Insurance	1.50%	\$1,423,847	\$21,358	\$1.38
9	Bond	0.65%	\$1,445,204	\$9,394	\$0.61
10	Permit	0.00%	\$1,454,598	\$0	\$0.00
11	Fee	3.00%	\$1,454,598	\$43,638	\$2.83
<i>12</i>	Estimated Construction Cost Total			\$1,498,236	\$97.15



Providence, RI 15,422 GSF

<u>DIRECT COST SUMMARY - GREATER KENNEDY PLAZA NEW MEET ISLAND</u>

	<u>ELEMENT</u>	<u>TOTAL</u>
11 12	F20 FACILITY REMEDIATION	\$0
13 14	F30 DEMOLITION	\$0
	G10 SITE PREPARATION	\$49,510
17 18	G20 SITE IMPROVEMENTS	\$1,047,895
19 20	G30 SITE CIVIL/MECHANICAL UTILITIES	\$15,000
	G40 SITE ELECTRICAL UTILITIES	\$0
<i>23</i>	TOTAL	<u>\$1,112,405</u>
25 26	TOTAL	<u>\$1,112,405</u>
27 28		
29 30		
31 32		
33 34		
35 36		
37 38		
39 40		
41 42		
43 44		
45 46		



Providence, RI 15,422 GSF

SITEWORK DETAILS - GREATER KENNEDY PLAZA MEET ISLAND

	<u>DESCRIPTION</u>	<u>QUANTITY</u>	<u>UNIT</u>	<u>UNIT COST</u>	<u>TOTAL</u>
11	F20 FACILITY REMEDIATION				
<i>12</i>					
<i>13</i>	F2010 Hazardous Materials Remediation				
14	Hazmat abatement/Soil Remediation				NIC
15	F20 FACILITY REMEDIATION TOTAL				\$0
16					
<i>17</i>					
18	F30 DEMOLITION				
19					
20	F3010 Structure Demolition				
21	Building demolition				NIC
<i>22</i>	F30 DEMOLITION TOTAL				\$0
<i>23</i>					
24					
<i>25</i>	G10 SITE PREPARATION				
<i>26</i>					
<i>27</i>	G1010 Site Clearing				
28	31 10 00 Site Clearing				
29	Construction fence, install, maintain, remove & reinstall;	404	LF	\$12.00	\$4,848
<i>30</i>	Double construction gate	1	PR	\$2,500.00	\$2,500
31	Contractor parking			+0.00	W/General Con
32	Contractor staging and laydown area	1,542	SF	\$2.00	\$3,084
33	Temp signs	1	LS	\$500.00	\$500
34	Wash down/re-fueling/parking allowance				W/General Con
35	CARROLL B. Hall I.B. L. H.				
36	G1020 Site Demolition and Relocation				
<i>37</i>	02 41 00 Demolition	4	A T	¢2.000.00	¢2.000
38	Protection of existing	1	AL	\$2,000.00	\$2,000
39 40	Cutting and natahing	1	ΑТ	\$1,000.00	\$1,000
40 41	Cutting and patching	1	AL	\$1,000.00	\$1,000
41 42	G1030 Site Earthwork				
43	Soils Characterization and Disposal; allowance				W/Kennedy
44	Rock excavation				NIC
45	Rough grading	1,714	SY	\$1.50	\$2,571
46	Fine grading	15,422	SF	\$1.00	\$15,422
47	Cut and fill	286	CY	\$9.00	\$2,570
48	Gravel base	286	CY	\$38.00	\$10,868
49	Spread loam	286	CY	\$11.00	\$3,146
50	Allow for miscellaneous repairs during construction	1	LS	\$1,000.00	\$1,000
	PUV Budget 30 Matrix 11 June 2021	_		Detail Est Kenned	•
F	Printed 6/11/2021			Pa	age 96 of 231

Providence, RI 15,422 GSF

SITEWORK DETAILS - GREATER KENNEDY PLAZA MEET ISLAND

	<u>DESCRIPTION</u>	QUANTITY	<u>UNIT</u>	<u>UNIT COST</u>	<u>TOTAL</u>
51					
<i>52</i>	G10 SITE PREPARATION TOTAL				\$49,510
53					
54	COO CUMP IMPROVEMENTS				
55	G20 SITE IMPROVEMENTS				
<i>56</i>	C2020 P. J. staling Product				
57 50	G2030 Pedestrian Paving				NIC
58 50	32 13 10 Rigid Paving	12.040	CE	¢65.00	NIC #041 60F
<i>59</i>	Granite unit pavers	12,949	SF	\$65.00	\$841,685
60	Wood Deck	0	SF	\$55.00	\$0 \$0
61 62	Brick Paving Stabilized Decembered Creatite Paving	0	SF SF	\$50.00 \$65.00	\$0 \$0
63	Stabilized Decomposed Granite Paving	0	SF	\$65.00	\$0
64	G2040 Site Development				
65	G2040.01 Fences and Gates				
66	d2040.01 Pences and dates				
67	G2040.02 Site and Street Furnishes				
68	Signage	1	EA	\$500.00	\$500
69	Remove & reinstall Soldier & Sailor Moment	-	ш		eparate Estimate
<i>70</i>	Tree planters	0	EA	\$1,200.00	\$0
71	Long Benches	167	LF	\$250.00	\$41,750
72	Long Curved benches	45	LF	\$500.00	\$22,500
<i>73</i>	Communal table	0	AL	\$15,000.00	\$0
<i>74</i>	Café Seating	9	EA	\$5,000.00	\$45,000
<i>75</i>	Brick bench at Overlook	0	EA	\$7,500.00	\$0
76	Curved bench at Overlook	0	EA	\$20,000.00	\$0
77	Platform	0	SF	\$250.00	\$0
<i>78</i>	Elevated edge seating	45	LF	\$500.00	\$22,500
<i>7</i> 9	Miscellaneous site improvements	1	LS	\$5,000.00	\$5,000
<i>80</i>					
81	G2050.02 Lawns and Grasses				
<i>82</i>	32 92 00 Turfs and Grasses				NIC
<i>83</i>	Sod	0	SF	\$1.50	\$0
<i>84</i>					
85	G2050.03 Trees, Plants and Ground Covers				NIC
<i>86</i>	Trees	13	EA	\$1,500.00	\$19,500
<i>87</i>	Bioswale planting	0	SF	\$35.00	\$0
88	Raised planters	2,473	SF	\$20.00	\$49,460
<i>89</i>					
90	G20 SITE IMPROVEMENTS TOTAL PIV Rudget 30 Matrix 11 June 2021		Γ	etail Est Kennedy	\$1,047,895 Meet Island



Providence, RI 15,422 GSF

SITEWORK DETAILS - GREATER KENNEDY PLAZA MEET ISLAND

	<u>DESCRIPTION</u>	QUANTITY UNIT	<u>UNIT COST</u>	<u>TOTAL</u>
91				
92				
93	G30 SITE CIVIL/MECHANICAL UTILITIES			
94				
95	G3010 Water Utilities			W/Kennedy
96				
97	G3020 Sanitary Sewerage Utilities			\$0
98				
99	G3030 Storm Drainage Utilities	1 LS	\$15,000.00	\$15,000
100	GOOD G. WITH			
101 102	G3040 Gas Utilities			
102 103	33 50 00 Gas Service Connection to existing gas main			NIC
103 104	Gas Line Trench			NIC
104	das Ellie Treffeli			NIC
106	G30 SITE CIVIL/MECHANICAL UTILITIES TOTAL			\$15,000
107	450 5112 61112, 1-1261111116112 6 11211126 1 6 1112			\$15,000
108				
109	G40 SITE ELECTRICAL UTILITIES			
110				
111	G4010 Site Electrical Utilities			
112	Site lighting			W/Kennedy
<i>113</i>				
114	G40 SITE ELECTRICAL UTILITIES TOTAL			\$0
<i>115</i>				
116				
117		TOTAL SITEWO	ORK SUMMARY	\$1,112,405
118				



Providence, RI 3,790 GSF

<u>MAIN SUMMARY - GREATER KENNEDY PLAZA SHADE ISLAND</u>

	<u>DESCRIPTION</u>			<u>TOTAL</u>	<u>COST/SF</u>
1	Direct Trade Costs With Site				
2	Site Development			\$366,100	\$96.60
3	Direct Trade Cost SubTotal			\$366,100	\$96.60
4	Pricing Contingency	15.00%	\$366,100	\$54,915	\$14.49
5	Trade Cost SubTotal			\$421,015	\$111.09
6	General Conditions	5.75%	\$421,015	\$24,208	\$6.39
7	General Requirements	5.25%	\$445,223	\$23,374	\$6.17
8	Insurance	1.50%	\$468,598	\$7,029	\$1.85
9	Bond	0.65%	\$475,627	\$3,092	\$0.82
10	Permit	0.00%	\$478,718	\$0	\$0.00
11	Fee	3.00%	\$478,718	\$14,362	\$3.79
12	Estimated Construction Cost Total			\$493,080	\$130.10



Providence, RI 3,790 GSF

<u>DIRECT COST SUMMARY - GREATER KENNEDY PLAZA NEW SHADE ISLAND</u>

	<u>ELEMENT</u>	<u>TOTAL</u>
11 12	F20 FACILITY REMEDIATION	\$0
	F30 DEMOLITION	\$0
	G10 SITE PREPARATION	\$19,000
17 18	G20 SITE IMPROVEMENTS	\$332,100
19 20	G30 SITE CIVIL/MECHANICAL UTILITIES	\$15,000
21 22	G40 SITE ELECTRICAL UTILITIES	\$0
23 24	TOTAL	<u>\$366,100</u>
25 26		
27 28		
29 30		
31 32 33		
34 35		
36 37		
38 39		
40 41		
42 43		
44 45 46		
70		



Providence, RI 3,790 GSF

SITEWORK DETAILS - GREATER KENNEDY PLAZA SHADE ISLAND

	<u>DESCRIPTION</u>	QUANTITY	<u>UNIT</u>	<u>UNIT COST</u>	<u>TOTAL</u>
11	F20 FACILITY REMEDIATION				
<i>12</i>					
<i>13</i>	F2010 Hazardous Materials Remediation				
14	Hazmat abatement/Soil Remediation				NIC
15	F20 FACILITY REMEDIATION TOTAL				\$0
16					
<i>17</i>					
18	F30 DEMOLITION				
19					
20	F3010 Structure Demolition				
21	Building demolition				NIC
<i>22</i>	F30 DEMOLITION TOTAL				\$0
<i>23</i>					
24					
25	G10 SITE PREPARATION				
26					
27	G1010 Site Clearing				
28	31 10 00 Site Clearing			+40.00	to ==0
29	Construction fence, install, maintain, remove & reinstall;	230	LF	\$12.00	\$2,759
30	Double construction gate	1	PR	\$2,500.00	\$2,500
31	Contractor parking			+0.00	W/General Con
32	Contractor staging and laydown area	379	SF	\$2.00	\$758
33	Temp signs	1	LS	\$500.00	\$500
34	Wash down/re-fueling/parking allowance				W/General Con
		4	A T	#2.000.00	#2.000
	Protection of existing	1	AL	\$2,000.00	\$2,000
	Costing and matching	1	A T	¢1 000 00	¢1 000
	Cutting and patching	1	AL	\$1,000.00	\$1,000
	G1030 Site Farthwork				
					W/Kennedy
		421	ςv	\$1.50	
		•			
	-				
	PUV Budget 30 Matrix 11 June 2021	*		etail Est Kennedy	•
	Printed 6/11/2021				ge 101 of 231
	•	1 421 3,790 70 70 70	AL SY SF CY CY CY LS De		

Providence, RI 3,790 GSF

SITEWORK DETAILS - GREATER KENNEDY PLAZA SHADE ISLAND

	<u>DESCRIPTION</u>	QUANTITY	<u>UNIT</u>	<u>UNIT COST</u>	-	<u>TOTAL</u>
51						
<i>52</i>	G10 SITE PREPARATION TOTAL					\$19,000
<i>53</i>						
54						
<i>55</i>	G20 SITE IMPROVEMENTS					
56						
<i>57</i>	G2030 Pedestrian Paving					
58	32 13 10 Rigid Paving				NIC	
<i>59</i>	Granite unit pavers	2,139	SF	\$65.00		\$139,035
<i>60</i>	Wood Deck	0	SF	\$55.00		\$0
61	Brick Paving	0	SF	\$50.00		\$0
<i>62</i>	Stabilized Decomposed Granite Paving	1,651	SF	\$65.00		\$107,315
<i>63</i>						
64	G2040 Site Development					
65	G2040.01 Fences and Gates					
66						
67	G2040.02 Site and Street Furnishes					
68	Signage	1	EA	\$500.00		\$500
69	Remove & reinstall Soldier & Sailor Moment					
70	Tree planters	0	EA	\$1,200.00		\$0
71	Long Benches	45	LF	\$250.00		\$11,250
<i>72</i>	Long Curved benches	0	LF	\$500.00		\$0
<i>73</i>	Communal table	0	AL	\$15,000.00		\$0
74	Café Seating	9	EA	\$5,000.00		\$45,000
<i>75</i>	Brick bench at Overlook	0	EA	\$7,500.00		\$0
<i>76</i>	Curved bench at Overlook	0	EA	\$20,000.00		\$0
<i>77</i>	Platform	0	SF	\$250.00		\$0
<i>78</i>	Kiosk					\$0
<i>79</i>	Elevated edge seating	0	LF	\$500.00		\$0
80	Miscellaneous site improvements	1	LS	\$5,000.00		\$5,000
81						
82	G2050.02 Lawns and Grasses					
<i>83</i>	32 92 00 Turfs and Grasses				NIC	
84	Sod	0	SF	\$1.50		\$0
85						
86	G2050.03 Trees, Plants and Ground Covers				NIC	
<i>87</i>	Trees	16	EA	\$1,500.00		\$24,000
88	Bioswale planting	0	SF	\$35.00		\$0
89	Raised planters	0	SF	\$20.00		\$0
90						
F	PUV Budget 30 Matrix 11 June 2021		Dε	etail Est Kennedy	Shade	Island



Providence, RI 3,790 GSF

SITEWORK DETAILS - GREATER KENNEDY PLAZA SHADE ISLAND

	<u>DESCRIPTION</u>	QUANTITY UNIT	<u>UNIT COST</u>	<u>TOTAL</u>
91	G20 SITE IMPROVEMENTS TOTAL			\$332,100
92				
93				
94	G30 SITE CIVIL/MECHANICAL UTILITIES			
95				
96	G3010 Water Utilities			W/Kennedy
97				
98	G3020 Sanitary Sewerage Utilities			\$0
99				
100	G3030 Storm Drainage Utilities	1 LS	\$15,000.00	\$15,000
101	GOOD G. WITH			
102	G3040 Gas Utilities			
103	33 50 00 Gas Service			
104	Connection to existing gas main			NIC
<i>105</i>	Gas Line Trench			NIC
<i>106</i>				
<i>107</i>	G30 SITE CIVIL/MECHANICAL UTILITIES TOTAL			\$15,000
108				
109				
110	G40 SITE ELECTRICAL UTILITIES			
111				
112	G4010 Site Electrical Utilities			
113	Site lighting			W/Kennedy
114				
115	G40 SITE ELECTRICAL UTILITIES TOTAL			\$0
116				
117				
118		TOTAL SITEV	VORK SUMMARY	\$366,100
119				



Providence, RI 3,218 GSF

MAIN SUMMARY - GREATER KENNEDY PLAZA MEADOW ISLAND

	<u>DESCRIPTION</u>			<u>TOTAL</u>	COST/SF
1	Direct Trade Costs With Site				
2	Site Development			\$375,617	\$116.72
3	Direct Trade Cost SubTotal			\$375,617	\$116.72
4 5	Pricing Contingency Trade Cost SubTotal	15.00%	\$375,617	\$56,343 \$431,960	\$17.51 \$134.23
6	General Conditions	5.75%	\$431,960	\$24,838	\$7.72
7	General Requirements	5.25%	\$456,797	\$23,982	\$7.45
8	Insurance	1.50%	\$480,779	\$7,212	\$2.24
9	Bond	0.65%	\$487,991	\$3,172	\$0.99
10	Permit	0.00%	\$491,163	\$0	\$0.00
11	Fee	3.00%	\$491,163	\$14,735	\$4.58
12	Estimated Construction Cost Total		_	\$505,898	\$157.21



Providence, RI 3,218 GSF

<u>DIRECT COST SUMMARY - GREATER KENNEDY PLAZA NEW MEADOW ISLAND</u>

	<u>ELEMENT</u>	<u>TOTAL</u>
11 12	F20 FACILITY REMEDIATION	\$0
13 14	F30 DEMOLITION	\$0
	G10 SITE PREPARATION	\$20,047
17 18	G20 SITE IMPROVEMENTS	\$343,570
19 20	G30 SITE CIVIL/MECHANICAL UTILITIES	\$12,000
	G40 SITE ELECTRICAL UTILITIES	\$0
<i>23</i>	TOTAL	<u>\$375,617</u>
25 26		
27 28		
29 30		
31 32		
33 34 35		
36 37		
38 39		
40 41		
42 43		
44 45		
46		



Providence, RI 3,218 GSF

SITEWORK DETAILS - GREATER KENNEDY PLAZA MEADDOW ISLAND

	<u>DESCRIPTION</u>	<u>QUANTITY</u>	<u>UNIT</u>	<u>UNIT COST</u>	<u>TOTAL</u>
11	F20 FACILITY REMEDIATION				
<i>12</i>					
<i>13</i>	F2010 Hazardous Materials Remediation				
14	Hazmat abatement/Soil Remediation				NIC
15	F20 FACILITY REMEDIATION TOTAL				\$0
16					
<i>17</i>					
18	F30 DEMOLITION				
19					
20	F3010 Structure Demolition				
21	Building demolition				NIC
<i>22</i>	F30 DEMOLITION TOTAL				\$0
<i>23</i>					
24					
<i>25</i>	G10 SITE PREPARATION				
26					
27	G1010 Site Clearing				
28	31 10 00 Site Clearing	404		† 40.00	h= 4=0
29	Construction fence, install, maintain, remove & reinstall;	431	LF	\$12.00	\$5,172
30	Double construction gate	1	PR	\$2,500.00	\$2,500
31	Contractor parking	000	O.D.	40.00	W/General Con
32	Contractor staging and laydown area	322	SF	\$2.00	\$644
33	Temp signs	1	LS	\$500.00	\$500
34	Wash down/re-fueling/parking allowance				W/General Con
35 36	G1020 Site Demolition and Relocation				
30 37	02 41 00 Demolition				
<i>38</i>	Protection of existing	1	AL	\$2,000.00	\$2,000
<i>39</i>	1 rotection of existing	1	ЛL	\$2,000.00	\$2,000
40	Cutting and patching	1	AL	\$1,000.00	\$1,000
41	Gutting and patering	•	7111	Ψ1,000.00	Ψ1,000
42	G1030 Site Earthwork				
43	Soils Characterization and Disposal; allowance				W/Kennedy
44	Rock excavation				NIC
45	Rough grading	358	SY	\$1.50	\$537
46	Fine grading	3,218	SF	\$1.00	\$3,218
47	Cut and fill	60	CY	\$9.00	\$536
48	Gravel base	60	CY	\$38.00	\$2,280
49	Spread loam	60	CY	\$11.00	\$660
50	Allow for miscellaneous repairs during construction	1	LS	\$1,000.00	\$1,000
	PUV Budget 30 Matrix 11 June 2021 Printed 6/11/2021		Det	ail Est Kennedy N Pag	Meadow Islan ge 106 of 231

Providence, RI 3,218 GSF

SITEWORK DETAILS - GREATER KENNEDY PLAZA MEADDOW ISLAND

	<u>DESCRIPTION</u>	<u>QUANTITY</u>	<u>UNIT</u>	<u>UNIT COST</u>	<u>TOTAL</u>
51					
<i>52</i>	G10 SITE PREPARATION TOTAL				\$20,047
53					
54	COO CYME IMPROVEMENTS				
55	G20 SITE IMPROVEMENTS				
56	C2020 Redestries Revine				
57 58	G2030 Pedestrian Paving 32 13 10 Rigid Paving				NIC
50 59	Granite unit pavers	1,488	SF	\$65.00	\$96,720
60	Wood Deck	0	SF	\$55.00	\$90,720
61	Brick Paving	0	SF	\$50.00	\$0 \$0
62	Stabilized Decomposed Granite Paving	0	SF	\$65.00	\$0 \$0
63	Stabilized Decomposed drainte I aving	o	51	Ψ03.00	ΨΟ
64	G2040 Site Development				
65	G2040.01 Fences and Gates				
66					
<i>67</i>	G2040.02 Site and Street Furnishes				
68	Signage	1	EA	\$500.00	\$500
<i>69</i>	Remove & reinstall Soldier & Sailor Moment				
70	Tree planters	0	EA	\$1,200.00	\$0
<i>71</i>	Long Benches	45	LF	\$250.00	\$11,250
<i>72</i>	Long Curved benches	0	LF	\$500.00	\$0
<i>73</i>	Communal table	0	AL	\$15,000.00	\$0
<i>74</i>	Café Seating	9	EA	\$5,000.00	\$45,000
<i>75</i>	Brick bench at Overlook	0	EA	\$7,500.00	\$0
<i>76</i>	Curved bench at Overlook	0	EA	\$20,000.00	\$0
<i>77</i>	Platform	0	SF	\$250.00	\$0
<i>78</i>	Kiosk				\$0
<i>79</i>	Lilypad bench extenstion	90	SF	\$175.00	\$15,750
80	Seating alcove	96	SF	\$175.00	\$16,800
81	Elevated edge seating	136	LF	\$500.00	\$68,000
<i>82</i>	Miscellaneous site improvements	1	LS	\$5,000.00	\$5,000
<i>83</i>					
84	G2050.02 Lawns and Grasses				
85	32 92 00 Turfs and Grasses			±4 =0	NIC
86	Sod	0	SF	\$1.50	\$0
87 88	G2050.03 Trees, Plants and Ground Covers				NIC
89	Trees	16	EA	\$1,500.00	\$24,000
90	Bioswale planting	1,730	SF	\$35.00	\$60,550
	PUV Budget 30 Matrix 11 June 2021	2,. 50		ail Est Kennedy M	•
	Printed 6/11/2021				ge 107 of 231

Providence, RI 3,218 GSF

<u>SITEWORK DETAILS - GREATER KENNEDY PLAZA MEADDOW ISLAND</u>

	<u>DESCRIPTION</u>	<u>QUANTITY</u>	<u>UNIT</u>	<u>UNIT COST</u>	<u>TOTAL</u>
91	Raised planters	0	SF	\$20.00	\$0
92					
93	G20 SITE IMPROVEMENTS TOTAL				\$343,570
94					
95					
96	G30 SITE CIVIL/MECHANICAL UTILITIES				
97					
98	G3010 Water Utilities				W/Kennedy
99					+ 0
100	G3020 Sanitary Sewerage Utilities				\$0
101	C2020 Charma Durain and Hailitein	1	1.0	¢12.000.00	ф12 000
102 103	G3030 Storm Drainage Utilities	1	LS	\$12,000.00	\$12,000
103 104	G3040 Gas Utilities				
104	33 50 00 Gas Service				
106	Connection to existing gas main				NIC
107	Gas Line Trench				NIC
108					
109	G30 SITE CIVIL/MECHANICAL UTILITIES TOTAL				\$12,000
<i>110</i>					
111					
<i>112</i>	G40 SITE ELECTRICAL UTILITIES				
<i>113</i>					
114	G4010 Site Electrical Utilities				
115	Site lighting				W/Kennedy
116					
117	G40 SITE ELECTRICAL UTILITIES TOTAL				\$0
118					
119			OIMPY	ND17 CHIP434 4 77	4055 (45
120		TOTAL	SITEW(ORK SUMMARY	\$375,617
<i>121</i>					



Providence, RI 5,277 GSF

MAIN SUMMARY - GREATER KENNEDY PLAZA HANG ISLAND

<i>12</i>	Estimated Construction Cost Total		_	\$655,808	\$124.28
11	Fee	3.00%	\$636,707	\$19,101	\$3.62
10	Permit	0.00%	\$636,707	\$0	\$0.00
9	Bond	0.65%	\$632,595	\$4,112	\$0.78
8	Insurance	1.50%	\$623,246	\$9,349	\$1.77
7	General Requirements	5.25%	\$592,158	\$31,088	\$5.89
6	General Conditions	5.75%	\$559,960	\$32,198	\$6.10
5	Trade Cost SubTotal			\$559,960	\$106.11
4	Pricing Contingency	15.00%	\$486,922	\$73,038	\$13.84
3	Direct Trade Cost SubTotal		_	\$486,922	\$92.27
2	Site Development			\$486,922	\$92.27
1	Direct Trade Costs With Site				
	<u>DESCRIPTION</u>			<u>TOTAL</u>	<u>COST/SF</u>



Providence, RI 5,277 GSF

<u>DIRECT COST SUMMARY - GREATER KENNEDY PLAZA NEW HANG ISLAND</u>

	<u>ELEMENT</u>	<u>TOTAL</u>
11 12	F20 FACILITY REMEDIATION	\$0
13 14	F30 DEMOLITION	\$0
	G10 SITE PREPARATION	\$23,467
17 18	G20 SITE IMPROVEMENTS	\$451,455
19 20	G30 SITE CIVIL/MECHANICAL UTILITIES	\$12,000
21 22	G40 SITE ELECTRICAL UTILITIES	\$0
23 24	TOTAL	<u>\$486,922</u>
25 26		<u> </u>
27 28		
29 30		
31 32		
33 34		
35 36		
37 38		
39 40		
41 42 43		
43 44 45		
45 46		



Providence, RI 5,277 GSF

SITEWORK DETAILS - GREATER KENNEDY PLAZA HANG ISLAND

	<u>DESCRIPTION</u>	QUANTITY	<u>UNIT</u>	<u>UNIT COST</u>	<u>TOTAL</u>
11	F20 FACILITY REMEDIATION				
<i>12</i>					
<i>13</i>	F2010 Hazardous Materials Remediation				
14	Hazmat abatement/Soil Remediation				NIC
15	F20 FACILITY REMEDIATION TOTAL				\$0
16					
<i>17</i>					
18	F30 DEMOLITION				
19					
20	F3010 Structure Demolition				
21	Building demolition				NIC
<i>22</i>	F30 DEMOLITION TOTAL				\$0
<i>23</i>					
24					
25	G10 SITE PREPARATION				
<i>26</i>					
<i>27</i>	G1010 Site Clearing				
<i>28</i>	31 10 00 Site Clearing				
<i>29</i>	Construction fence, install, maintain, remove & reinstall;	298	LF	\$12.00	\$3,574
<i>30</i>	Double construction gate	1	PR	\$2,500.00	\$2,500
<i>31</i>	Contractor parking				W/General Con
<i>32</i>	Contractor staging and laydown area	528	SF	\$2.00	\$1,055
<i>33</i>	Temp signs	1	LS	\$500.00	\$500
<i>34</i>	Wash down/re-fueling/parking allowance				W/General Con
<i>35</i>					
<i>36</i>	G1020 Site Demolition and Relocation				
<i>37</i>	02 41 00 Demolition				
<i>38</i>	Protection of existing	1	AL	\$2,000.00	\$2,000
<i>39</i>					
40	Cutting and patching	1	AL	\$1,000.00	\$1,000
41					
<i>42</i>	G1030 Site Earthwork				
<i>43</i>	Soils Characterization and Disposal; allowance				W/Kennedy
44	Rock excavation				NIC
45	Rough grading	586	SY	\$1.50	\$879
46	Fine grading	5,277	SF	\$1.00	\$5,277
47	Cut and fill	98	CY	\$9.00	\$880
48	Gravel base	98	CY	\$38.00	\$3,724
49	Spread loam	98	CY	\$11.00	\$1,078
50	Allow for miscellaneous repairs during construction	1	LS	\$1,000.00	\$1,000
	PUV Budget 30 Matrix 11 June 2021 Printed 6/11/2021		J	Detail Est Kennedy Pag	y Hang Island ge 111 of 231

Providence, RI 5,277 GSF

SITEWORK DETAILS - GREATER KENNEDY PLAZA HANG ISLAND

	<u>DESCRIPTION</u>	<u>QUANTITY</u>	<u>UNIT</u>	<u>UNIT COST</u>	<u>TOTAL</u>
51					
<i>52</i>	G10 SITE PREPARATION TOTAL				\$23,467
53					
54	COO CUME IMPROVEMENTS				
55 56	G20 SITE IMPROVEMENTS				
56	C2020 Redestries Revine				
<i>57</i> <i>58</i>	G2030 Pedestrian Paving 32 13 10 Rigid Paving				NIC
50 59	Granite unit pavers	0	SF	\$65.00	\$0
60	Wood Deck	0	SF	\$55.00	\$0 \$0
61	Brick Paving	0	SF	\$50.00	\$0 \$0
<i>62</i>	Stabilized Decomposed Granite Paving	5,277	SF	\$65.00	\$343,005
63	Stabilized Becomposed drainte Laving	3,277	51	ψ03.00	ψ3 13,003
64	G2040 Site Development				
65	G2040.01 Fences and Gates				
66					
<i>67</i>	G2040.02 Site and Street Furnishes				
68	Signage	1	EA	\$500.00	\$500
<i>69</i>	Remove & reinstall Soldier & Sailor Moment				
70	Tree planters	6	EA	\$1,200.00	\$7,200
<i>71</i>	Long Benches	0	LF	\$250.00	\$0
<i>72</i>	Long Curved benches	0	LF	\$500.00	\$0
<i>73</i>	Communal table	0	AL	\$15,000.00	\$0
<i>74</i>	Café Seating	9	EA	\$5,000.00	\$45,000
<i>75</i>	Brick bench at Overlook	0	EA	\$7,500.00	\$0
<i>76</i>	Curved bench at Overlook	0	EA	\$20,000.00	\$0
<i>77</i>	Platform	167	SF	\$250.00	\$41,750
<i>78</i>	Kiosk				\$0
<i>7</i> 9	Lilypad bench extenstion	0	SF	\$175.00	\$0
80	Seating alcove	0	SF	\$175.00	\$0
81	Elevated edge seating	0	LF	\$500.00	\$0
<i>82</i>	Miscellaneous site improvements	1	LS	\$5,000.00	\$5,000
83					
84	G2050.02 Lawns and Grasses				
85	32 92 00 Turfs and Grasses	•	a n		NIC
86	Sod	0	SF	\$1.50	\$0
87	C20F0 02 Tuess Disaste and Cassard Cassard				NIC
88 89	G2050.03 Trees, Plants and Ground Covers	6	EA	¢1 E00 00	NIC \$9,000
90	Trees Bioswale planting	0	SF	\$1,500.00 \$35.00	\$9,000 \$0
	PUV Budget 30 Matrix 11 June 2021	U		\$35.00 Detail Est Kennedy	
	Printed 6/11/2021		L		e 112 of 231

Providence, RI 5,277 GSF

SITEWORK DETAILS - GREATER KENNEDY PLAZA HANG ISLAND

	<u>DESCRIPTION</u>	<u>QUANTITY</u>	<u>UNIT</u>	<u>UNIT COST</u>	<u>TOTAL</u>
91	Raised planters	0	SF	\$20.00	\$0
92					
93	G20 SITE IMPROVEMENTS TOTAL				\$451,455
94					
95					
96	G30 SITE CIVIL/MECHANICAL UTILITIES				
97					
98	G3010 Water Utilities				W/Kennedy
99					
100	G3020 Sanitary Sewerage Utilities				\$0
101	C2020 Storm Dusings Htilities	1	I C	¢12 000 00	¢12.000
102 103	G3030 Storm Drainage Utilities	1	LS	\$12,000.00	\$12,000
103 104	G3040 Gas Utilities				
104	33 50 00 Gas Service				
106	Connection to existing gas main				NIC
107	Gas Line Trench				NIC
108					
109	G30 SITE CIVIL/MECHANICAL UTILITIES TOTAL				\$12,000
<i>110</i>					
111					
<i>112</i>	G40 SITE ELECTRICAL UTILITIES				
<i>113</i>					
114	G4010 Site Electrical Utilities				
115	Site lighting				W/Kennedy
116					
117	G40 SITE ELECTRICAL UTILITIES TOTAL				\$0
118					
119			OIMPY	ND17 CHIP434 4 77	4404.000
120		TOTAL	SITEW(ORK SUMMARY	\$486,922
<i>121</i>					



Providence, RI 6,639 GSF

MAIN SUMMARY - GREATER KENNEDY PLAZA EAT ISLAND

	<u>DESCRIPTION</u>			<u>TOTAL</u>	<u>COST/SF</u>
1	Direct Trade Costs With Site				
2	Site Development		_	\$818,854	\$123.34
3	Direct Trade Cost SubTotal			\$818,854	\$123.34
4	Pricing Contingency	15.00%	\$818,854	\$122,828	\$18.50
5	Trade Cost SubTotal			\$941,682	\$141.84
6	General Conditions	5.75%	\$941,682	\$54,147	\$8.16
7	General Requirements	5.25%	\$995,829	\$52,281	\$7.87
8	Insurance	1.50%	\$1,048,110	\$15,722	\$2.37
9	Bond	0.65%	\$1,063,831	\$6,915	\$1.04
10	Permit	0.00%	\$1,070,746	\$0	\$0.00
11	Fee	3.00%	\$1,070,746	\$32,122	\$4.84
<i>12</i>	Estimated Construction Cost Total		_	\$1,102,869	\$166.12



Providence, RI 6,639 GSF

<u>DIRECT COST SUMMARY - GREATER KENNEDY PLAZA NEW EAT ISLAND</u>

	<u>ELEMENT</u>	<u>TOTAL</u>
11 12	F20 FACILITY REMEDIATION	\$0
13 14	F30 DEMOLITION	\$0
	G10 SITE PREPARATION	\$27,209
17 18	G20 SITE IMPROVEMENTS	\$779,645
19 20	G30 SITE CIVIL/MECHANICAL UTILITIES	\$12,000
21 22	G40 SITE ELECTRICAL UTILITIES	\$0
23 24	TOTAL	\$010 0E4
25 26	TOTAL	<u>\$818,854</u>
27 28		
29 30		
31 32		
33 34		
35 36		
37 38		
39 40		
41 42		
43 44		
45 46		



Providence, RI 6,639 GSF

SITEWORK DETAILS - GREATER KENNEDY PLAZA EAT ISLAND

	<u>DESCRIPTION</u>	QUANTITY	<u>UNIT</u>	<u>UNIT COST</u>	<u>TOTAL</u>
11	F20 FACILITY REMEDIATION				
<i>12</i>					
<i>13</i>	F2010 Hazardous Materials Remediation				
14	Hazmat abatement/Soil Remediation				NIC
15	F20 FACILITY REMEDIATION TOTAL				\$0
16					
<i>17</i>					
18	F30 DEMOLITION				
19					
20	F3010 Structure Demolition				
21	Building demolition				NIC
<i>22</i>	F30 DEMOLITION TOTAL				\$0
<i>23</i>					
24					
<i>25</i>	G10 SITE PREPARATION				
26					
<i>27</i>	G1010 Site Clearing				
<i>28</i>	31 10 00 Site Clearing				
29	Construction fence, install, maintain, remove & reinstall;	334	LF	\$12.00	\$4,002
<i>30</i>	Double construction gate	1	PR	\$2,500.00	\$2,500
<i>31</i>	Contractor parking				W/General Con
<i>32</i>	Contractor staging and laydown area	664	SF	\$2.00	\$1,328
<i>33</i>	Temp signs	1	LS	\$500.00	\$500
34	Wash down/re-fueling/parking allowance				W/General Con
<i>35</i>					
<i>36</i>	G1020 Site Demolition and Relocation				
<i>37</i>	02 41 00 Demolition				
<i>38</i>	Protection of existing	1	AL	\$2,000.00	\$2,000
<i>39</i>					
40	Cutting and patching	1	AL	\$1,000.00	\$1,000
41					
<i>42</i>	G1030 Site Earthwork				
<i>43</i>	Soils Characterization and Disposal; allowance				W/Kennedy
44	Rock excavation				NIC
45	Rough grading	738	SY	\$1.50	\$1,107
46	Fine grading	6,639	SF	\$1.00	\$6,639
47	Cut and fill	123	CY	\$9.00	\$1,107
48	Gravel base	123	CY	\$38.00	\$4,674
49	Spread loam	123	CY	\$11.00	\$1,353
50	Allow for miscellaneous repairs during construction	1	LS	\$1,000.00	\$1,000
	PUV Budget 30 Matrix 11 June 2021 Printed 6/11/2021			Detail Est Kenne Pag	dy Eat Island ge 116 of 231

Providence, RI 6,639 GSF

SITEWORK DETAILS - GREATER KENNEDY PLAZA EAT ISLAND

	<u>DESCRIPTION</u>	QUANTITY	<u>UNIT</u>	<u>UNIT COST</u>	<u>TOTAL</u>
51				_	407.000
<i>52</i>	G10 SITE PREPARATION TOTAL				\$27,209
53 54					
55	G20 SITE IMPROVEMENTS				
<i>56</i>	dzo SITE IMI KOVEMENTS				
<i>57</i>	G2030 Pedestrian Paving				
58	32 13 10 Rigid Paving			1	NIC
59	Granite unit pavers	0	SF	\$65.00	\$0
60	Wood Deck	6,639	SF	\$55.00	\$365,145
61	Brick Paving	0	SF	\$50.00	\$0
<i>62</i>	Stabilized Decomposed Granite Paving	0	SF	\$65.00	\$0
<i>63</i>					
64	G2040 Site Development				
65	G2040.01 Fences and Gates				
66					
<i>67</i>	G2040.02 Site and Street Furnishes				
68	Signage	1	EA	\$500.00	\$500
<i>69</i>	New Imagination Center			S	Separate
70	Tree planters	0	EA	\$1,200.00	\$0
<i>71</i>	Long Benches	0	LF	\$250.00	\$0
<i>72</i>	Long Curved benches	0	LF	\$500.00	\$0
<i>73</i>	Communal table	1	AL	\$25,000.00	\$25,000
74	Café Table	5	EA	\$5,000.00	\$25,000
<i>75</i>	Brick bench at Overlook	0	EA	\$7,500.00	\$0
<i>76</i>	Curved bench at Overlook	0	EA	\$20,000.00	\$0
77	Platform	0	SF	\$250.00	\$0
<i>78</i>	Kiosk	1	LS	\$350,000.00	\$350,000
<i>79</i>	Lilypad bench extenstion	0	SF	\$175.00	\$0
80	Seating alcove	0	SF	\$175.00	\$0
81	Elevated edge seating	0	LF	\$500.00	\$0
82	Miscellaneous site improvements	1	LS	\$5,000.00	\$5,000
83					
84	G2050.02 Lawns and Grasses			,	NI C
85	32 92 00 Turfs and Grasses	0	CE		NIC
86	Sod	0	SF	\$1.50	\$0
87	C20F0 02 Tuess Plants and Cround Covers			,	NIC
88 89	G2050.03 Trees, Plants and Ground Covers	6	ΕΛ		NIC \$0,000
90	Trees Riogwale planting	0	EA SF	\$1,500.00 \$35.00	\$9,000 \$0
	Bioswale planting PUV Budget 30 Matrix 11 June 2021	U	ЭГ	\$35.00 Detail Est Kennedy	
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Providence, RI 6,639 GSF

SITEWORK DETAILS - GREATER KENNEDY PLAZA EAT ISLAND

	<u>DESCRIPTION</u>	QUANTITY	<u>UNIT</u>	<u>UNIT COST</u>	<u>TOTAL</u>
91	Raised planters	0	SF	\$20.00	\$0
92					
93	G20 SITE IMPROVEMENTS TOTAL				\$779,645
94					
95					
96	G30 SITE CIVIL/MECHANICAL UTILITIES				
97					
98	G3010 Water Utilities				W/Kennedy
99	C2020 Carita and Carrana and Heller				φo
100 101	G3020 Sanitary Sewerage Utilities				\$0
101	G3030 Storm Drainage Utilities	1	LS	\$12,000.00	\$12,000
103	d3030 Storm Dramage offices	-	Ц	Ψ12,000.00	Ψ12,000
104	G3040 Gas Utilities				
105	33 50 00 Gas Service				
106	Connection to existing gas main				NIC
<i>107</i>	Gas Line Trench				NIC
<i>108</i>					
<i>109</i>	G30 SITE CIVIL/MECHANICAL UTILITIES TOTAL				\$12,000
<i>110</i>					
111					
112	G40 SITE ELECTRICAL UTILITIES				
113	CAOAO C'. El IVIII.				
114	G4010 Site Electrical Utilities				TAT /TZ
115 116	Site lighting				W/Kennedy
117	G40 SITE ELECTRICAL UTILITIES TOTAL				\$0
117	WTO SITE EEECTIMONE OTHERTIES TOTAL				φU
119					
120		TOTAL	SITEWO	ORK SUMMARY	\$818,854
121					



Providence, RI 3,733 GSF

MAIN SUMMARY - GREATER KENNEDY PLAZA OVERLOOK ISLAND

	<u>DESCRIPTION</u>			<u>TOTAL</u>	<u>COST/SF</u>
1	Direct Trade Costs With Site				
2	Site Development		_	\$325,214	\$87.12
3	Direct Trade Cost SubTotal			\$325,214	\$87.12
4	Pricing Contingency	15.00%	\$325,214	\$48,782	\$13.07
5	Trade Cost SubTotal		_	\$373,996	\$100.19
6	General Conditions	5.75%	\$373,996	\$21,505	\$5.76
7	General Requirements	5.25%	\$395,501	\$20,764	\$5.56
8	Insurance	1.50%	\$416,265	\$6,244	\$1.67
9	Bond	0.65%	\$422,509	\$2,746	\$0.74
10	Permit	0.00%	\$425,255	\$0	\$0.00
11	Fee	3.00%	\$425,255	\$12,758	\$3.42
<i>12</i>	Estimated Construction Cost Total		_	\$438,013	\$117.34



Providence, RI 3,733 GSF

<u>DIRECT COST SUMMARY - GREATER KENNEDY PLAZA NEW OVERLOOK ISLAND</u>

	<u>ELEMENT</u>	<u>TOTAL</u>
11 12	F20 FACILITY REMEDIATION	\$0
13 14	F30 DEMOLITION	\$0
	G10 SITE PREPARATION	\$19,114
	G20 SITE IMPROVEMENTS	\$301,100
19 20	G30 SITE CIVIL/MECHANICAL UTILITIES	\$5,000
	G40 SITE ELECTRICAL UTILITIES	\$0
<i>23</i>	TOTAL	<u>\$325,214</u>
25 26	TOTAL	<u> </u>
27 28		
29 30		
31 32		
33 34		
35 36		
37 38		
39 40		
41 42		
43 44		
45 46		



Providence, RI 3,733 GSF

<u>SITEWORK DETAILS - GREATER KENNEDY PLAZA OVERLOOK ISLAND</u>

	<u>DESCRIPTION</u>	QUANTITY	<u>UNIT</u>	<u>UNIT COST</u>	<u>TOTAL</u>
11	F20 FACILITY REMEDIATION				
12					
<i>13</i>	F2010 Hazardous Materials Remediation				
14	Hazmat abatement/Soil Remediation				NIC
15	F20 FACILITY REMEDIATION TOTAL				\$0
16					
<i>17</i>					
18	F30 DEMOLITION				
19					
20	F3010 Structure Demolition				
21	Building demolition				NIC
<i>22</i>	F30 DEMOLITION TOTAL				\$0
<i>23</i>					
24					
25	G10 SITE PREPARATION				
26					
<i>27</i>	G1010 Site Clearing				
28	31 10 00 Site Clearing				
29	Construction fence, install, maintain, remove & reinstall;	251	LF	\$12.00	\$3,008
<i>30</i>	Double construction gate	1	PR	\$2,500.00	\$2,500
31	Contractor parking				W/General Con
<i>32</i>	Contractor staging and laydown area	373	SF	\$2.00	\$747
<i>33</i>	Temp signs	1	LS	\$500.00	\$500
34	Wash down/re-fueling/parking allowance				W/General Con
<i>35</i>					
<i>36</i>	G1020 Site Demolition and Relocation				
<i>37</i>	02 41 00 Demolition				
<i>38</i>	Protection of existing	1	AL	\$2,000.00	\$2,000
<i>39</i>					
40	Cutting and patching	1	AL	\$1,000.00	\$1,000
41					
<i>42</i>	G1030 Site Earthwork				
<i>43</i>	Soils Characterization and Disposal; allowance				W/Kennedy
44	Rock excavation				NIC
<i>45</i>	Rough grading	415	SY	\$1.50	\$623
46	Fine grading	3,733	SF	\$1.00	\$3,733
<i>47</i>	Cut and fill	69	CY	\$9.00	\$622
48	Gravel base	69	CY	\$38.00	\$2,622
49	Spread loam	69	CY	\$11.00	\$759
50	Allow for miscellaneous repairs during construction	1	LS	\$1,000.00	\$1,000
	PUV Budget 30 Matrix 11 June 2021 Printed 6/11/2021			Detail Est Kennedy Pag	v Overlook Isl ge 121 of 231

Providence, RI 3,733 GSF

SITEWORK DETAILS - GREATER KENNEDY PLAZA OVERLOOK ISLAND

	<u>DESCRIPTION</u>	<u>QUANTITY</u>	<u>UNIT</u>	<u>UNIT COST</u>	<u>TOTAL</u>
51					
<i>52</i>	G10 SITE PREPARATION TOTAL				\$19,114
<i>53</i>					
54					
<i>55</i>	G20 SITE IMPROVEMENTS				
56					
<i>57</i>	G2030 Pedestrian Paving				NIC
<i>58</i>	32 13 10 Rigid Paving	0	CE	Φ . Ε.Ο.Ο.	NIC
59	Granite unit pavers	0	SF	\$65.00	\$0
60	Wood Deck	0	SF	\$55.00	\$0
61	Brick Paving	3,733	SF	\$50.00	\$186,650
62 63	Stabilized Decomposed Granite Paving	0	SF	\$65.00	\$0
64	G2040 Site Development				
65	G2040.01 Fences and Gates				
66					
<i>67</i>	G2040.02 Site and Street Furnishes				
68	Signage	1	EA	\$500.00	\$500
<i>69</i>	Remove & reinstall Soldier & Sailor Moment				
70	Tree planters	6	EA	\$1,200.00	\$7,200
<i>71</i>	Small bench	5	EA	\$2,500.00	\$12,500
<i>72</i>	Long Curved benches	38	LF	\$500.00	\$19,000
<i>73</i>	Communal table	1	AL	\$25,000.00	\$25,000
<i>74</i>	Café Table	5	EA	\$5,000.00	\$25,000
<i>75</i>	Brick bench at Overlook	0	EA	\$7,500.00	\$0
<i>76</i>	Curved bench at Overlook	0	EA	\$20,000.00	\$0
<i>77</i>	Platform	0	SF	\$250.00	\$0
<i>78</i>	Kiosk				\$0
<i>79</i>	Lilypad bench	45	SF	\$250.00	\$11,250
80	Seating alcove	0	SF	\$175.00	\$0
81	Elevated edge seating	0	LF	\$500.00	\$0
<i>82</i>	Miscellaneous site improvements	1	LS	\$5,000.00	\$5,000
<i>83</i>					
84	G2050.02 Lawns and Grasses				
85	32 92 00 Turfs and Grasses				NIC
86	Sod	0	SF	\$1.50	\$0
87 88	G2050.03 Trees, Plants and Ground Covers				NIC
89	Trees	6	EA	\$1,500.00	\$9,000
90	Bioswale planting	0	SF	\$35.00	\$0
	PUV Budget 30 Matrix 11 June 2021	J		etail Est Kennedy	
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Providence, RI 3,733 GSF

SITEWORK DETAILS - GREATER KENNEDY PLAZA OVERLOOK ISLAND

	<u>DESCRIPTION</u>	<u>QUANTITY</u>	<u>UNIT</u>	<u>UNIT COST</u>	<u>TOTAL</u>
91	Raised planters	0	SF	\$20.00	\$0
92	-				
93	G20 SITE IMPROVEMENTS TOTAL				\$301,100
94					
95					
96	G30 SITE CIVIL/MECHANICAL UTILITIES				
<i>97</i>					
98	G3010 Water Utilities				W/Kennedy
99					
100	G3020 Sanitary Sewerage Utilities				\$0
101	C2020 Channa Davin and Hallistan	4	1.0	ΦΕ 000 00	φ τ 000
102 103	G3030 Storm Drainage Utilities	1	LS	\$5,000.00	\$5,000
103 104	G3040 Gas Utilities				
104	33 50 00 Gas Service				
106	Connection to existing gas main				NIC
107	Gas Line Trench				NIC
108					-1
109	G30 SITE CIVIL/MECHANICAL UTILITIES TOTAL				\$5,000
<i>110</i>	•				
111					
<i>112</i>	G40 SITE ELECTRICAL UTILITIES				
<i>113</i>					
114	G4010 Site Electrical Utilities				
115	Site lighting				W/Kennedy
116					
117	G40 SITE ELECTRICAL UTILITIES TOTAL				\$0
118					
119		mor	CIMPIA		4005044
120		TOTAL	SITEW	ORK SUMMARY	\$325,214
<i>121</i>					



Providence, RI 300 GSF

MAIN SUMMARY - KENNEDY PLAZA KIOSK

	<u>DESCRIPTION</u>			<u>TOTAL</u>	COST/SF
11	Direct Trade Costs With Site				
<i>12</i>	New Construction	300	GSF	\$596,272	\$1,987.57
<i>13</i>	Site Development			Part of Kennedy I	Plaza
14	•			-	
15	Direct Trade Cost SubTotal			\$596,272	\$1,987.57
16					
<i>17</i>	Pricing Contingency	15.00%	\$596,272	\$89,441	\$298.14
18					
19	Direct Trade Cost Total			\$685,713	\$1.15
20					
21	General Conditions	5.25%	\$685,713	\$36,000	\$120.00
<i>22</i>	General Requirements	1.50%	\$721,713	\$10,826	\$36.09
<i>23</i>	Insurance	0.65%	\$732,538	\$4,761	\$15.87
24	Bonds	0.00%	\$737,300	\$0	\$0.00
25	Permits	3.00%	\$737,300	\$22,119	\$73.73
<i>26</i>	Fee	0.00%	\$759,419	\$0	\$0.00
<i>27</i>					
<i>28</i>	Estimated Construction Cost Total			\$759,419	\$2,531.40
<i>29</i>					
<i>30</i>					
31					
32					
33					
34					
<i>35</i>					



Providence, RI 300 GSF

<u>DIRECT COST SUMMARY - KENNEDY PLAZA KIOSK</u>

	<u>ELEMENT</u>	<u>TOTAL</u>	COST/SF
10 11	A10 FOUNDATIONS	\$91,335	\$304.45
12		Ψ71,000	Ψ501.15
13	B10 STRUCTURE	\$27,128	\$90.43
14		+40404 =	+ . o . o
15 16	B20 EXTERIOR CLOSURE	\$121,215	\$404.05
	B30 ROOFING	\$33,721	\$112.40
18		, , , , , , ,	,
19	C10 INTERIOR CONSTRUCTION	\$171,968	\$573.23
20	COO CWAIDC ACEC	φo	ф0.00
21 22	C20 STAIRCASES	\$0	\$0.00
23	C30 INTERIOR FINISHES	\$91,494	\$304.98
24			
	D10 CONVEYING SYSTEMS	\$0	\$0.00
26 27	D20 PLUMBING	\$4,500	\$15.00
28	D20 I LOMDING	Ψ4,300	Ψ13.00
29	D30 HVAC	\$17,400	\$58.00
<i>30</i>			
31	D40 FIRE PROTECTION	\$2,100	\$7.00
<i>32 33</i>	D50 ELECTRICAL	\$16,500	\$55.00
34	D30 EBECTRICAL	Ψ10,500	Ψ33.00
35	E10 EQUIPMENT	\$0	\$0.00
36		* 40.040	h.co.o.1
37 38	E20 FURNISHINGS	\$18,912	\$63.04
	F10 SPECIAL CONSTRUCTION	\$0	\$0.00
40		, -	,
	F20 SELECTIVE DEMOLITION	\$0	\$0.00
42	TOTAL	¢E04 272	¢1 007 57
43 44	TOTAL	<u>\$596,272</u>	<u>\$1.987.57</u>
45			



Providence, RI 300 GSF

DIRECT COST SUMMARY - KENNEDY PLAZA KIOSK

	DIV.NO.	<u>ELEMENTS</u>	<u>TOTAL</u>
11	A10	FOUNDATIONS	
<i>12</i>		Foundations	\$70,257
<i>13</i>		Slab on Grade	\$21,078
14		FOUNDATIONS TOTAL	\$91,335
15			·
16			
<i>17</i>	B10	STRUCTURE	
18		Upper Floor Construction	\$18,167
19		Roof Construction	\$8,961_
20		STRUCTURE TOTAL	\$27,128
21			
<i>22</i>			
<i>23</i>	B20	EXTERIOR CLOSURE	
24		Exterior walls	\$51,055
<i>25</i>		Exterior windows	\$64,560
<i>26</i>		Exterior Doors	\$5,600
<i>27</i>		EXTERIOR CLOSURE TOTAL	\$121,215
28			
29			
<i>30</i>	B30	ROOFING	
31		Roof Coverings	\$33,721
32		ROOFING TOTAL	\$33,721
33			
34	64.0	INTERNAL CONCERNAL	
35	C10	INTERIOR CONSTRUCTION	¢20.615
<i>36</i>		Partitions	\$38,615
37		Interior Doors, frames & Hardware	\$54,348 \$70,005
38		Fittings	\$79,005 \$171,069
39 40		INTERIOR CONSTRUCTION TOTAL	\$171,968
41			
42	C20	STAIRCASES	
43	G20	Staircases	\$0
44		STAIRCASES TOTAL	*** ***
45		OTTAK GROUD TOTTLE	40
46			
47	C30	INTERIOR FINISHES	
48	300	Wall finishes	\$77,000
	Budget 30 Ma	atrix 11 June 2021 miyakoda	Detailed Summary Kiosk

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Providence, RI 300 GSF

DIRECT COST SUMMARY - KENNEDY PLAZA KIOSK

	DIV.NO.	<u>ELEMENTS</u>	<u>TOTAL</u>
49		Floor finishes	\$12,500
50		Ceiling finishes	\$1,994
51		INTERIOR FINISHES TOTAL	\$91,494
<i>52</i>			
<i>53</i>			
54	D10	VERTICAL MOVEMENT	
55		Conveying System	\$0
56		VERTICAL MOVEMENT TOTAL	\$0
<i>57</i>			
58			
59	D20	PLUMBING	
60		Plumbing	\$4,500_
61		PLUMBING TOTAL	\$4,500
62			
63	D20	INVAC	
64	D30	HVAC	¢17.400
65		HVAC HVAC TOTAL	\$17,400
66 67		HVAC TOTAL	\$17,400
68			
69	D40	FIRE PROTECTION	
<i>70</i>	DTU	Fire Protection	\$2,100
71		FIRE PROTECTION TOTAL	\$2,100
72			42,1 00
73			
74	D50	ELECTRICAL	
<i>75</i>		Service and distribution	\$16,500
<i>76</i>		ELECTRICAL TOTAL	\$16,500
<i>77</i>			
<i>78</i>			
<i>79</i>	E10	EQUIPMENT	
80		Institutional Equipment	\$0
81		EQUIPMENT TOTAL	\$0
<i>82</i>			
<i>83</i>			
84	E20	FURNISHINGS	
85		Specialties / Millwork	\$18,912
86		FURNISHINGS TOTAL	\$18,912
PUV I	Budget 30 M	atrix 11 June 2021	Detailed Summary Kiosk

PUV Budget 30 Matrix 11 June 2021 Printed 6/11/2021



Providence, RI 300 GSF

DIRECT COST SUMMARY - KENNEDY PLAZA KIOSK

	DIV.NO.	<u>ELEMENTS</u>	<u>TOTAL</u>
<i>87</i>			
88			
89	F10	SPECIAL CONSTRUCTION	
<i>90</i>		Special construction	\$0
91		SPECIAL CONSTRUCTION TOTAL	\$0
92			
93			
94	F20	SELECTIVE DEMOLITION	
95		Selective Demolition	\$0
96		SELECTIVE DEMOLITION TOTAL	\$0
97			
98			
99			
100	BUILDING	G TOTAL TRADE CONSTRUCTION COST	\$596,272
<i>101</i>			



Providence, RI 300 GSF

	DESCRIPTION	QUANTITY UNIT		RATE/UNIT	TOTAL
11	A10 FOUNDATIONS				
<i>12</i>					
13	A1010 FOUNDATIONS				
14	Earthwork				
15	Slab-on-Grade platform preparation in Sitework Tab	1,003	SF		
16	Continuous footing w/foundation wall	100	LF		
<i>17</i>	Excavation	111.4	CY	\$12.00	See below
18	Backfill from import	83.4	CY	\$20.00	See below
19	Spread footings	4	EA		
20	Excavation	12.0	CY	\$12.00	See below
21	Backfill from import		CY	\$20.00	See below
<i>22</i>	Elevator pits - 8'-0"W x 8'-0"L x 5'-0"D	0	EA		
23	Excavation	0	CY	\$12.00	See below
24	Backfill from import	0.0	CY	\$20.00	See below
25	Disposal				
26	Cast to off-site waste	40	CY	\$22.00	See below
<i>27</i>	Grade & compact	1,003	SF	\$1.00	See below
28	12" base course sand & gravel below slab on grade	37.1	CY	\$25.00	See below
29					
<i>30</i>	Building over excavation:				
31	Over-excavation to remove topsoil	19	CY	\$8.00	\$149
32	50% Over-excavation Reused (stockpile on site)	9	CY	\$7.50	\$70
33	Dispose materials	9	CY	\$18.00	\$167
<i>34</i>	Structural fill	9	CY	\$28.00	\$260
35 36	Building Area:				
37	Cut and fill for building	37	CY	\$9.00	\$334
<i>38</i>	Gravel base to building	37	CY	\$38.00	\$1,412
39	draver base to building	37	G1	Ψ30.00	Ψ1,112
40	Perimeter foundation drain	80	LF	\$18.00	\$1,440
41				·	. ,
<i>42</i>	Concrete				
<i>43</i>	Continuous footings; 3' x 1' 0" typ.	100	LF		
44	Concrete; material	12.0	CY	\$150.00	\$1,800
45	Concrete; place (combination of pumping/trucking)	12.0	CY	\$95.00	\$1,140
46	Reinforcement w/ftn wall dowels (10#/lf)	1,000	LB	\$1.15	\$1,150
47	Formwork	200	SF	\$12.00	\$2,400
48	Spread footings	4	EA		
49	Concrete; material	21.0	CY	\$150.00	\$3,150



Providence, RI 300 GSF

	DESCRIPTION	QUANTITY	<u>UNIT</u>	RATE/UNIT	TOTAL
50	Concrete; place	21.0	CY	\$95.00	\$1,995
51	Reinforcement (150#/cy)	3,150	LB	\$1.15	\$3,623
<i>52</i>	Formwork	304	SF	\$12.00	\$3,648
<i>53</i>	Foundation/Basement walls; 12" thick	400	SF		
54	Concrete; material	16	CY	\$150.00	\$2,400
<i>55</i>	Concrete; place	16	CY	\$95.00	\$1,520
56	Reinforcement (150#/cy)	2,400	LB	\$1.15	\$2,760
<i>57</i>	Formwork	840	SF	\$9.00	\$7,560
58	Brick shelf	100	LF	\$5.00	\$500
59	Anchor bolts	17	SET	\$35.00	\$596
<i>60</i>	Miscellaneous concrete	1	LS	\$0.00	\$0
61					
<i>62</i>	Thermal & Moisture Protection				
<i>63</i>	2" rigid insulation at foundation walls	400	SF	\$2.75	\$1,100
64	Damp proofing to foundation walls	400	SF	\$5.00	\$2,000
65					
<i>66</i>	Special Foundation Conditions				
67	Soil improvements	1,003	SF	\$28.00	\$28,084
68	Dewatering during excavation	1	LS	\$1,000.00	\$1,000
69	A1010 FOUNDATIONS TOTAL				\$70,257
70					
<i>71</i>					
<i>72</i>	A1030 SLAB ON GRADE				
<i>73</i>	Concrete				
<i>74</i>	Slab on grade, 5" thick, WWF, top of slab 314' 0"	1,003	SF		
<i>75</i>	Concrete; material	16	CY	\$150.00	\$2,340
76	Concrete; place & finish	1,003	SF	\$2.75	\$2,758
<i>77</i>	Reinforcement (6x6 mesh)	1,153	SF	\$1.15	\$1,326
<i>78</i>	Slab depressions	10	LF	\$300.00	\$3,000
<i>79</i>	Slab thickening at stair 5'x2'x1' deep	0	LOC	\$2,500.00	\$0
80	Slab on grade at loading dock, 6" thick, #4 bars	600	SF		
81	Concrete; material	11.1	CY	\$150.00	\$1,667
<i>82</i>	Concrete; place & finish	600	SF	\$2.75	\$1,650
<i>83</i>	Reinforcement; #4@12"bew	804	LBS	\$1.15	\$925
84	Miscellaneous				
85	Housekeeping & mechanical equipment pads	1	LS	\$2,000.00	\$2,000
86	Miscellaneous concrete	1	LS	\$1,600.00	\$1,600
<i>87</i>					

Providence, RI 300 GSF

	DESCRIPTION	QUANTITY UNIT		RATE/UNIT	TOTAL
88	Thermal & Moisture Protection				
89	2" rigid insulation under slab	1,003	SF	\$2.65	\$2,658
90	Vapor retarder under slab	1,153	SF	\$1.00	\$1,153
91	A1030 SLAB ON GRADE TOTAL	•		_	\$21,078
92					
93	A10 FOUNDATIONS TOTAL			_	\$91,335
94				=	
95					
96	A20 BASEMENT				
97					
98	No anticipated work				
99					
<i>100</i>	TOTAL SYSTEM A20 BASEMENT			_	\$0
101				_	_
<i>102</i>					
<i>103</i>	B10 STRUCTURE				
104					
<i>105</i>	B1010 UPPER FLOOR CONSTRUCTION				
<i>106</i>	Concrete				
<i>107</i>	Slab on deck topping, 2½" normal weight, WWF	(703)	SF		
<i>108</i>	Concrete; material	(9.8)	CY	\$150.00	(\$1,465)
109	Reinforcement (6x6 mesh)	(773)	SF	\$1.00	(\$773)
<i>110</i>	Rebar at corners and openings	(39)	LBS	\$1.15	(\$44)
111	Concrete; place & finish	(703)	SF	\$2.75	(\$1,933)
112		_			
113	Steel Framing	6	TNS	to = 0 0 0 0	+10=0
114	Wide flange beams	5.0	TNS	\$3,700.00	\$18,500
115	WT-shapes	0.0	TNS	\$4,100.00	\$0
116	HSS-shapes		TNS	\$4,150.00	\$830
117	HSS columns	0.2	TNS	\$4,150.00	\$830
118	HSS brace frames	0.2	TNS	\$4,300.00	\$860
119	Plates, bent plates and angles	4	EA	\$75.00	\$319
120 121	Moment connections Shear studs	(100)	LS E A	\$3,000.00	\$3,000
		(100)	EA	\$5.00	(\$500)
122 123	2" deep x 20ga galv composite floor deck	(703)	SF	\$3.85	(\$2,707)
123 124	Misc. Metals				
125	Misc. metals	300	SF	\$1.50	\$450
		500	J.	Ψ1.00	Ψ100



Providence, RI 300 GSF

	DESCRIPTION QUANTITY UNIT		<u>UNIT</u>	RATE/UNIT	TOTAL
126					
127	Thermal & Moisture Protection				
128	Firestopping	300	GSF	\$1.00	\$300
129	Fireproofing	1	LS	\$500.00	\$500
130	B1010 UPPER FLOOR CONSTRUCTION TOTAL			·	\$18,167
131					, -, -
132	B1020 ROOF CONSTRUCTION				
133	Structural steel				
134	Roof deck	1,103	SF	\$3.85	\$4,248
135	Premium for galv acoustic roof deck	1,103	sf	\$3.00	\$3,310
136	Other misc plates, connections	1,103	SF	\$1.00	\$1,103
137	Rough blocking to roof	300	SF	\$1.00	\$300
138					
139	Mechanical roof top equipment				
140	Roof screen, galv, assume 13' high; HSS shapes				NIC
141	B1020 ROOF CONSTRUCTION TOTAL				\$8,961
142					
143	TOTAL SYSTEM B10 SUPERSTRUCTURE				\$27,128
144					
<i>145</i>					
146	B20 EXTERIOR CLOSURE	1,104 SF			
<i>147</i>					
<i>148</i>	B2010 EXTERIOR WALLS	528	sf		
149					
<i>150</i>	Exterior Veneer	182	SF	\$75.00	\$13,680
<i>151</i>	Insulation	182	SF	\$4.00	\$730
<i>152</i>	Air vapor barrier	182	SF	\$6.50	\$1,186
<i>153</i>	Gypsum sheathing	182	SF	\$3.35	\$611
154	Light Gage Metal Framing	182	SF	\$9.00	\$1,642
<i>155</i>	GWB to interior of exterior	182	SF	\$4.25	\$775
156	Caulking and sealants	182	SF	\$0.65	\$119
<i>157</i>					
158	Masonry	230	SF	\$35.00	\$8,064
<i>159</i>	Insulation	230	SF	\$4.00	\$922
<i>160</i>	Air vapor barrier	230	SF	\$5.50	\$1,267
161	Gypsum sheathing	230	SF	\$2.00	\$461
<i>162</i>	Light Gage Metal Framing	230	SF	\$8.00	\$1,843
<i>163</i>	GWB to interior of exterior	230	SF	\$2.25	\$518



Providence, RI 300 GSF

	<u>DESCRIPTION</u>	QUANTITY UNIT		RATE/UNIT	TOTAL
164	Caulking and sealants	230	SF	\$0.65	\$150
165	S				
166	Exterior Veneer	115	SF	\$82.00	\$9,446
<i>167</i>	Insulation	115	SF	\$4.00	\$461
168	Air vapor barrier	115	SF	\$5.50	\$634
169	Gypsum sheathing	115	SF	\$2.00	\$230
<i>170</i>	Light Gage Metal Framing	115	SF	\$8.00	\$922
171	GWB to interior of exterior	115	SF	\$2.25	\$259
<i>172</i>	Caulking and sealants	115	SF	\$0.65	\$75
173					
174	Miscellaneous				
<i>175</i>	Allow for precast trim pieces	1	LS	\$0.00	\$0
<i>176</i>	Soffits	120	LF	\$7.00	\$840
177	Sills	38	LF	\$75.00	\$2,880
178	Miscellaneous metals in exterior closure	528	SF	\$1.00	\$528
<i>179</i>	Through wall sheet mtl flashing sheathing & rigid insul.	528	SF	\$0.50	\$264
180	Louvers	30	SF	\$85.00	\$2,550
181	B2010 EXTERIOR WALLS TOTAL				\$51,055
<i>182</i>					
<i>183</i>	B2020 EXTERIOR WINDOWS	<i>576</i>	SF		
184	Curtain wall	240	SF	\$115.00	\$27,600
<i>185</i>	Storefront; Exterior	144	SF	\$95.00	\$13,680
186	Windows	192	SF	\$90.00	\$17,280
<i>187</i>	Blocking for windows	1	LS	\$1,000.00	\$1,000
188					
189	Mechanical louvers in exterior closure				
190	Window caulking	1	LS	\$5,000.00	\$5,000
191	B2020 EXTERIOR WINDOWS TOTAL			_	\$64,560
192					•
193	B2030 EXTERIOR DOORS				
194	Aluminum entry doors including hardware	1	LEAF	\$3,800.00	\$3,800
195	Exterior; Overhead coiling door			, , , , , , , , , , , , , , , , , , , ,	\$0
196	Exterior doors; complete	1	LEAF	\$1,800.00	\$1,800
197	B2030 EXTERIOR DOORS TOTAL	_		<u></u>	\$5,600
198	2200 Billion 20010 IUIII				45,000
199	TOTAL SYSTEM B20 EXTERIOR CLOSURE			_	\$121,215
200				_	-,
201					



Providence, RI 300 GSF

	<u>DESCRIPTION</u>	QUANTITY UNIT		RATE/UNIT	TOTAL
202	B30 ROOFING				
<i>203</i>					
204	B3010 ROOF COVERINGS				
205					
206	Roofing				
<i>207</i>	Roof System	1,103	SF	\$14.50	\$15,998
<i>208</i>	1/2" cover board	1,103	SF	\$1.85	\$2,041
<i>209</i>	6" insulation	1,103	SF	\$2.65	\$2,924
210	Vapor retarder	1,103	SF	\$0.65	\$717
211	1/2" substrate board	1,103	SF	\$1.85	\$2,041
<i>212</i>					
<i>213</i>	Roofing Accessories				
214	Miscellaneous roof accessories	1	LS	\$10,000.00	\$10,000
<i>215</i>	Roof screens				NIC
216	B3010 ROOF COVERINGS TOTAL				\$33,721
<i>217</i>					
<i>218</i>	TOTAL SYSTEM B30 ROOFING				\$33,721
<i>219</i>					
<i>220</i>					
<i>221</i>	C10 INTERIOR CONSTRUCTION				
<i>222</i>					
<i>223</i>	C1010 PARTITIONS				
<i>224</i>					
<i>225</i>	Masonry partitions				
<i>226</i>	Split faced CMU partitions/masonry	0	SF	\$34.00	\$0
<i>227</i>	8" CMU interior partitions	113	SF	\$25.00	\$2,813
<i>228</i>	8" CMU elevator shaft wall	0	SF	\$28.00	\$0
<i>229</i>					
<i>230</i>	Gypsum board partitions				
<i>231</i>	Drywall partitions	0	SF	\$14.00	\$0
<i>232</i>	Chasewalls	0	SF	\$16.50	\$0
<i>233</i>	Rough carpentry internal partitions and ceilings	300	SF	\$1.50	\$450
<i>234</i>	Misc metals for interior masonry (lintels, restraint)	113	SF	\$1.00	\$113
<i>235</i>					
<i>236</i>	Interior windows				
<i>237</i>	Interior window	300	SF	\$60.00	\$18,000
<i>238</i>					
<i>239</i>	Interior storefront				



Providence, RI 300 GSF

	<u>DESCRIPTION</u>	QUANTITY	<u>UNIT</u>	RATE/UNIT	TOTAL
240	Interior storefront	200	SF	\$85.00	\$17,000
241					
242	Interior penetration firestopping				
243	Interior caulking	300	GSF	\$0.50	\$150
244	Top-of-partition firestopping	300	GSF	\$0.30	\$90
245	C1010 PARTITIONS TOTAL				\$38,615
246					
247	C1020 INTERIOR DOORS, FRAMES & HARDWARE				
248	Hollow Metal Doors and Frames:	_		+00000	+
249	Door frames	2	EA	\$300.00	\$600
250	Door frames for pair doors	1	EA	\$350.00	\$350
251	Doors	4	EA	\$325.00	\$1,300
252	Premium cost for acoustical doors	1	LS	\$1,500.00	\$1,500
253					
	Aluminum-Framed Entrances and Storefronts:	0	1.110	d2 (F0 00	#40 OF 0
255	Interior aluminum entry doors	3	LVS	\$3,650.00	\$10,950
256 257	Access De ove and Evanses				
257 250	Access Doors and Frames Access doors	8	EA	\$300.00	¢2.400
258 250		o 4	LOC	\$3,500.00	\$2,400 \$14,000
259 260	Powered door openers	4	LUC	\$3,300.00	\$14,000
261	Door sidelights	500	SF	\$35.00	\$17,500
262	Glazing to doors	1	AL	\$1,500.00	\$17,500
263	diazing to doors	1	ЛЦ	Ψ1,300.00	Ψ1,300
264	Hardware	4	SET	\$750.00	\$3,000
265	Paint door frames	3	EA	\$80.00	\$240
266	Paint door	4	EA	\$70.00	\$280
	Blocking at doors	51	LF	\$2.50	\$128
	Door Installation	4	EA	\$150.00	\$600
269	C1020 INTERIOR DOORS, FRAMES & HARDWARE TOTA	L		_	\$54,348
<i>270</i>					·
271	C1030 FITTINGS				
272					
<i>273</i>	Wall finish	1,000	SF	\$22.00	\$22,000
274	Markerboards	500	SF	\$28.00	\$14,000
<i>275</i>	Combination Boards	200	SF	\$25.00	\$5,000
<i>276</i>					
277	Interior guardrails				



Providence, RI 300 GSF

	<u>DESCRIPTION</u>	QUANTITY	<u>UNIT</u>	RATE/UNIT	TOTAL
278	Guardrail	0	LF	\$550.00	\$0
<i>279</i>					
280	Signage				
281	Commemorative plaque	2	LOC	\$1,500.00	\$3,000
282	Dimensional characters; name	1	AL	\$5,000.00	\$5,000
283	Plastic panel signs for room identification, way finding, hazard identification	1	AL	\$7,500.00	\$7,500
284	Framed paper signs	1	AL	\$2,500.00	\$2,500
<i>285</i>	Miscellaneous signage	300	GSF	\$1.35	\$405
<i>286</i>					
<i>287</i>	Wall & corner guards				
288	Stainless steel corner guards	1	LS	\$1,000.00	\$1,000
<i>289</i>					
<i>290</i>	Toilet compartments (Solid Polymer)				
291	Toilet compartments	0	EA	\$1,200.00	\$0
292	Toilet compartments - ADA	0	EA	\$1,400.00	\$0
<i>293</i>					
294	Metal lockers				
<i>295</i>	Staff lockers, single tier, 12" x 12" x 6' high	6	EA	\$250.00	\$1,500
296					
297	Toilet accessories				
<i>298</i>	Combination PTD/WR unit	0	EA	\$150.00	\$0
299	Paper towel dispensers	0	EA	\$100.00	\$0
<i>300</i>	Soap dispensers	0	EA	\$35.00	\$0
<i>301</i>	Toilet paper dispensers	0	EA	\$65.00	\$0
<i>302</i>	Sanitary napkin disposal units	0	EA	\$250.00	\$0
<i>303</i>	Robe hook	0	EA	\$25.00	\$0
<i>304</i>	Grab bars	0	PR	\$160.00	\$0
<i>305</i>	Mirrors - in gang bathrooms	0	EA	\$300.00	\$0
<i>306</i>	Mirrors - in private bathrooms	0	EA	\$150.00	\$0
<i>307</i>	Mop holder w/shelf (Janitors)	3	EA	\$200.00	\$600
<i>308</i>					
<i>309</i>	Fire extinguisher cabinets				
<i>310</i>	Fully recessed/non-rated	2	EA	\$450.00	\$900
311	Semi-recessed/non-rated	2	EA	\$300.00	\$600
312					
313	Projection screens				
314	Motorized projection screen	0	EA	\$7,500.00	\$0



Providence, RI 300 GSF

	<u>DESCRIPTION</u>	QUANTITY	<u>UNIT</u>	RATE/UNIT]	<u>rotal</u>
315						
316	Miscellaneous fittings	1	LS	\$15,000.00		\$15,000
317	C1030 FITTINGS TOTAL			, -,		\$79,005
318						•
319	TOTAL SYSTEM C10 INTERIOR CONSTRUCTION					5171,968
<i>320</i>						<u> </u>
321						
<i>322</i>	C20 STAIRCASES					
<i>323</i>						
<i>324</i>	C2010 STAIRCASES					
<i>325</i>	Interior stairs					
<i>326</i>	Egress stairs				NIC	
<i>327</i>	Concrete to metal pan stairs				NIC	
<i>328</i>						
329	Stair finishes					
<i>330</i>	Railings	1	LS		NIC	
331	Rubber flooring	0	SF		NIC	
<i>332</i>	Rubber flooring (Risers)	0	LF	\$15.50	NIC	
333	C2010 STAIRCASES TOTAL					\$0
334						
335	TOTAL C20 STAIRCASES					\$0
336						
337	GOO INTERNOOD HINIGHING					
338	C30 INTERIOR FINISHES					
339	C2040 MALL FINICHES					
340	C3010 WALL FINISHES	500	CE	ф10.00		¢0.000
341	Ceramic tile walls	500	SF	\$18.00		\$9,000
	Column covers	2	EA	\$3,500.00		\$7,000
	Composite panels	650	SF SF	\$35.00	NIC	\$22,750
344 345	Fabric wrapped fiberglass panels Fixed sound -absorbing wood fiber/fabric		SF SF	\$15.00 \$15.00		
346	Miscellaneous wall finish	1,500	SF	\$25.00	NIC	\$37,500
347	Paint	300		\$25.00		\$37,300 \$750
347	C3010 WALL FINISHES TOTAL	300	GSF	\$4.50		\$750 \$77,000
349	GOTO WALL PHUSHES TOTAL					Ψ11,000
350	C3020 FLOOR FINISHES	300				
351	Tile:	300				
<i>352</i>	Ceramic/porcelain tile floors	300	SF	\$25.00		\$7,500
	oramo, por colum die noord	500	0.	Ψ25.00		Ψ.,500



Providence, RI 300 GSF

	<u>DESCRIPTION</u>	QUANTITY UNIT		RATE/UNIT	TOTAL
353					
354	Flooring				
<i>355</i>	Flooring	0	SF	\$6.00	\$0
<i>356</i>	Base	1	LS	\$5,000.00	\$5,000
<i>357</i>					
<i>358</i>	Painting				
<i>359</i>	Sealed concrete	0	SF	\$1.50	\$0
<i>360</i>					
<i>361</i>	Entrance mats				
<i>362</i>	Mat	0	SF	\$35.00	\$0
<i>363</i>	C3020 FLOOR FINISHES TOTAL			_	\$12,500
<i>364</i>					
<i>365</i>	C3030 CEILING FINISHES				
<i>366</i>	Acoustical ceilings	258	SF	\$6.00	\$1,548
<i>367</i>	S .	27	SF	\$15.00	\$405
<i>368</i>	Paint GWB ceilings	27	SF	\$1.50	\$41
369	C3030 CEILING FINISHES TOTAL				\$1,994
<i>370</i>				<u> </u>	
<i>371</i>	TOTAL SYSTEM C30 INTERIOR FINISHES			_	\$91,494
<i>372</i>					
<i>373</i>					
<i>374</i>	D10 CONVEYING SYSTEMS				
<i>375</i>					
<i>376</i>	D1010 CONVEYING SYSTEMS				
377	Elevators	0	EA		\$0
<i>378</i>	Elevator pit ladder	0	EA		\$0
379	Sill angles	0	LF		\$0
<i>380</i>	Hoist beam	0	EA	_	\$0
381	D1010 CONVEYING SYSTEMS TOTAL				\$0
382				_	
383	TOTAL SYSTEM D10 CONVEYING SYSTEMS			_	\$0
384					
385					
386	D15 MECHANICAL				
387	DOO DI HIMDING				
388	D20 PLUMBING	202	CF	ተ1 ፫ በበ	4.500
389	Plumbing	300	SF	\$15.00	\$4,500
390	D20 PLUMBING TOTAL				\$4,500



Providence, RI 300 GSF

	<u>DESCRIPTION</u>	QUANTITY UNIT		RATE/UNIT	TOTAL
391					
<i>392</i>	D30 HVAC				
<i>393</i>	HVAC	300	SF	\$58.00_	\$17,400
<i>394</i>	D30 HVAC TOTAL			_	\$17,400
<i>395</i>					
<i>396</i>	D40 FIRE PROTECTION				
<i>397</i>	Sprinkler Coverage	300	SF	\$7.00	\$2,100
<i>398</i>	D40 FIRE PROTECTION TOTAL				\$2,100
399					
<i>400</i>	TOTAL SYSTEM D15 MECHANICAL			_	\$24,000
<i>401</i>					
<i>402</i>					
<i>403</i>	D50 ELECTRICAL				
404					
	D5011 SERVICE & DISTRIBUTION				
406	Interior Electrical	300	SF	\$55.00	\$16,500
407	D5011 SERVICE & DISTRIBUTION TOTAL				\$16,500
408				_	
409	TOTAL SYSTEM D50 ELECTRICAL			_	\$16,500
410					
411	E4.0 FOLUDATIVE				
412	E10 EQUIPMENT				
413	E4020 INCREMENTAL FOLLOWENT				
	E1020 INSTITUTIONAL EQUIPMENT				¢Ω
	Kitchen Equipment E1020 INSTITUTIONAL EQUIPMENT TOTAL			_	\$0 \$0
410	E1020 INSTITUTIONAL EQUIPMENT TOTAL				\$ 0
	TOTAL SYSTEM E10 FITTINGS & EQUIPMENT				\$0
419	TOTAL STSTEM ETO FITTINGS & EQUIT MENT			=	30
420					
421	E20 FURNISHINGS				
422	220 TORNISHINGS				
423	E2020 SPECIALTIES / MILLWORK				
424	Finish Carpentry				
425	Misc millwork standing and running trim	300	SF	\$25.00	\$7,500
426	0 - 0 -				. ,
427	<u>Furnishings</u>				
428	Casework	300	SF	\$12.00	\$3,600



Providence, RI 300 GSF

	DESCRIPTION	QUANTITY UNIT		RATE/UNIT	TOTAL
429					
<i>430</i>	Furnishings miscellaneous metals	300	SF	\$3.00	\$900
<i>431</i>					
<i>432</i>	Window treatment	576	SF	\$12.00	\$6,912
<i>433</i>					
434	E2020 SPECIALTIES / MILLWORK TOTAL				\$18,912
435					
436	TOTAL SYSTEM E20 FURNISHINGS				\$18,912
437					
438	TAO ODEGLAY CONCERNACION				
439	F10 SPECIAL CONSTRUCTION				
440	F4.04.0 CDF.CIAL CONCEDUCTION				
441	F1010 SPECIAL CONSTRUCTION No work in this section				¢Ω
442					\$0
443 444	F1010 SPECIAL CONSTRUCTION TOTAL				\$0
444	TOTAL SYSTEM F10 SPECIAL CONSTRUCTION				\$0
445 446	TOTAL SYSTEM FIG SPECIAL CONSTRUCTION				<u> </u>
440					
448	F20 SELECTIVE DEMOLITION				
449	120 SELECTIVE DEMOLITION				
	F2020 SELECTIVE DEMOLITION				
451	Demolition of existing building allowance		SF		Main Summary
452	Haz mat removal allowance		O1		Main Summary
453	F2020 SELECTIVE DEMOLITION TOTAL				\$0
454					Ψ0
455	TOTAL SYSTEM F20 DEMOLITION				<u>*0</u>
456					
457		•	ГОТАL	TO SUMMARY	\$596,272
458					,



Providence, RI 6,639 GSF

MAIN SUMMARY - GREATER KENNEDY PLAZA PERGOLA

	<u>DESCRIPTION</u>			<u>TOTAL</u>	<u>COST/SF</u>
1	Direct Trade Costs With Site				
2	Site Development			\$727,261	\$109.54
3	Direct Trade Cost SubTotal			\$727,261	\$109.54
4	Pricing Contingency	15.00%	\$727,261	\$109,089	\$16.43
5	Trade Cost SubTotal		_	\$836,350	\$125.98
6	General Conditions	5.75%	\$836,350	\$48,090	\$7.24
7	General Requirements	5.25%	\$884,440	\$46,433	\$6.99
8	Insurance	1.50%	\$930,873	\$13,963	\$2.10
9	Bond	0.65%	\$944,836	\$6,141	\$0.93
10	Permit	0.00%	\$950,978	\$0	\$0.00
11	Fee	3.00%	\$950,978	\$28,529	\$4.30
<i>12</i>	Estimated Construction Cost Total		_	\$979,507	\$147.54



Providence, RI 6,639 GSF

DIRECT COST SUMMARY - GREATER KENNEDY PLAZA PERGOLA

	<u>ELEMENT</u>	<u>TOTAL</u>
11 12	F20 FACILITY REMEDIATION	\$0
	F30 DEMOLITION	\$0
	G10 SITE PREPARATION	\$9,666
	G20 SITE IMPROVEMENTS	\$702,595
	G40 SITE ELECTRICAL UTILITIES	\$15,000
21 22		<u>\$727,261</u>
23 24		
25 26		
27 28		
29 30 31		
32 33		
34 35		
36 37		
38 39		
40 41		
42 43 44		



Providence Unified Vision Greater Kennedy Plaza

Providence, RI 6,639 GSF

SITEWORK DETAILS - GREATER KENNEDY PERGOLA

	<u>DESCRIPTION</u>	<u>QUANTITY</u>	<u>UNIT</u>	<u>UNIT COST</u>	<u>TOTAL</u>
11	F20 FACILITY REMEDIATION				
<i>12</i>					
<i>13</i>	F2010 Hazardous Materials Remediation				
14	Hazmat abatement/Soil Remediation				NIC
15	F20 FACILITY REMEDIATION TOTAL				\$0
16					
<i>17</i>					
18	F30 DEMOLITION				
19					
20	F3010 Structure Demolition				
21	Building demolition				NIC
<i>22</i>	F30 DEMOLITION TOTAL				\$0
<i>23</i>					
24					
25	G10 SITE PREPARATION				
26					
<i>27</i>	G1010 Site Clearing				
<i>28</i>	31 10 00 Site Clearing				
<i>29</i>	Construction fence, install, maintain, remove & reinstall;	334	LF	\$12.00	\$4,002
<i>30</i>	Double construction gate	1	PR	\$2,500.00	\$2,500
<i>31</i>	Contractor parking				W/General Con
<i>32</i>	Contractor staging and laydown area	332	SF	\$2.00	\$664
<i>33</i>	Temp signs	1	LS	\$500.00	\$500
<i>34</i>	Wash down/re-fueling/parking allowance				W/General Con
35					
<i>36</i>	G1020 Site Demolition and Relocation				
37	02 41 00 Demolition	_		+	
38	Protection of existing	1	AL	\$1,000.00	\$1,000
39				44.000.00	44.000
40	Cutting and patching	1	AL	\$1,000.00	\$1,000
41	CAO CIME DDEDADAMION MOMAI				<u> </u>
42	G10 SITE PREPARATION TOTAL				\$9,666
43					
44	C20 CITE IMPROVEMENTS				
45	G20 SITE IMPROVEMENTS				
46 47	C2040 Sita Davidanment				
47 48	G2040 Site Development G2040.02 Site and Street Furnishes				
48 49		1	EA	\$500.00	\$500
49 50	Signage Pergola	6,971	EA SF	\$100.00	\$697,095
	PUV Budget 30 Matrix 11 June 2021	0,971	SГ	\$100.00 Detail Est Ken	•
	Printed 6/11/2021				ge 143 of 231

Providence, RI 6,639 GSF

SITEWORK DETAILS - GREATER KENNEDY PERGOLA

	<u>DESCRIPTION</u>	QUANTITY	<u>UNIT</u>	<u>UNIT COST</u>	<u>TOTAL</u>
51	Miscellaneous site improvements	1	LS	\$5,000.00	\$5,000
<i>52</i>					
<i>53</i>	G20 SITE IMPROVEMENTS TOTAL				\$702,595
54					
<i>55</i>					
56	G40 SITE ELECTRICAL UTILITIES				
<i>57</i>					
58	G4010 Site Electrical Utilities				
59	Site lighting	1	LS	\$15,000.00	\$15,000
<i>60</i>					
<i>61</i>	G40 SITE ELECTRICAL UTILITIES TOTAL			_	\$15,000
<i>62</i>					
<i>63</i>					
64		TOTAL S	ITEWO	RK SUMMARY	\$727,261
65					<u> </u>



Providence Unified Vision Rink Building

Providence, RI 454 GSF

MAIN SUMMARY - IMAGINATION CENTER

	<u>DESCRIPTION</u>			<u>TOTAL</u>	COST/SF
11	Direct Trade Costs With Site				
<i>12</i>	Liner Building	454	GSF	\$334,346	\$736.44
<i>13</i>	Site Development			Part of Kennedy P	laza
14					
15	Direct Trade Cost SubTotal			\$334,346	\$736.44
16					
<i>17</i>	Pricing Contingency	15.00%	\$334,346	\$50,152	\$110.47
18					
19	Direct Trade Cost Total			\$384,498	\$1.15
20					
21	General Conditions	5.75%	\$384,498	\$22,109	\$48.70
<i>22</i>	General Requirements	5.25%	\$406,607	\$21,347	\$47.02
<i>23</i>	Insurance	1.50%	\$427,953	\$6,419	\$14.14
24	Bonds	0.65%	\$434,373	\$2,823	\$6.22
<i>25</i>	Permits	0.00%	\$437,196	\$0	\$0.00
26	Fee	3.00%	\$437,196	\$13,116	\$28.89
<i>27</i>					
<i>28</i>	Estimated Construction Cost Total			\$450,312	\$991.88
<i>29</i>					
<i>30</i>					
<i>31</i>					
<i>32</i>					



Providence Unified Vision Rink Building

Providence, RI 454 GSF

DIRECT COST SUMMARY - IMAGINATION CENTER

40	<u>ELEMENT</u>	<u>TOTAL</u>	COST/SF
10 11	A10 FOUNDATIONS	\$99,117	\$218.32
12 13	A20 BASEMENT	\$0	\$0.00
14 15	B10 STRUCTURE	\$31,353	\$69.06
16 17	B20 EXTERIOR CLOSURE	\$87,896	\$193.60
18 19	B30 ROOFING	·	
20		\$33,240	\$73.22
21 22	C10 INTERIOR CONSTRUCTION	\$10,321	\$22.73
23 24	C30 INTERIOR FINISHES	\$12,939	\$28.50
25 26	D20 PLUMBING	\$6,810	\$15.00
<i>27</i>	D30 HVAC	\$0	\$0.00
28 29	D40 FIRE PROTECTION	\$0	\$0.00
30 31	D50 ELECTRICAL	\$18,160	\$40.00
<i>32 33</i>	E10 EQUIPMENT	\$5,000	\$11.01
34 35	E20 FURNISHINGS	\$4,540	\$10.00
36 37	F10 SPECIAL CONSTRUCTION		\$55.00
<i>38</i>		\$24,970	
39 40	F20 SELECTIVE DEMOLITION	\$0	\$0.00
41 42	TOTAL	<u>\$334,346</u>	<u>\$736.44</u>
<i>43</i>			



Providence, RI 454 GSF

DIRECT COST SUMMARY - IMAGINATION CENTER

	DIV.NO.	<u>ELEMENTS</u>	_TOTAL
11	A10	FOUNDATIONS	
12		Foundations	\$56,340
13		Slab on Grade	\$42,776_
14		FOUNDATIONS TOTAL	\$99,117
15			
16			
17	A20	BASEMENT CONSTRUCTION	\$0
18			
19	D4.0	CERTICETING	
20	B10	STRUCTURE	427.22 F
21 22		Upper Floor Construction Roof Construction	\$27,335 \$4,018
23		STRUCTURE TOTAL	\$31,353
23 24		STRUCTURE TOTAL	Ф31,333
25			
26	B20	EXTERIOR CLOSURE	
27		Exterior walls	\$71,280
28		Exterior windows	\$11,616
<i>29</i>		Exterior Doors	\$5,000_
<i>30</i>		EXTERIOR CLOSURE TOTAL	\$87,896
31			
<i>32</i>			
<i>33</i>	B30	ROOFING	
34		Roof Coverings	\$33,240
35		ROOFING TOTAL	\$33,240
36			
37 38	C10	INTERIOR CONSTRUCTION	
30 39	C10	Partitions	\$1,362
40		Interior Doors, frames & Hardware	\$3,435
41		Fittings	\$5,524
42		INTERIOR CONSTRUCTION TOTAL	\$10,321
43			4-0,0
44			
<i>45</i>	C30	INTERIOR FINISHES	
46		Wall finishes	\$1,135
<i>47</i>		Floor finishes	\$4,540
48		Ceiling finishes	\$7,264
	Budget 30 Ma ed 6/11/202	atrix 11 June 2021 1 italian in a series	Summary Imagination Page 147 of 231

Providence, RI 454 GSF

DIRECT COST SUMMARY - IMAGINATION CENTER

	<u>DIV.NO.</u>	<u>ELEMENTS</u>	<u>TOTAL</u>
49 50		INTERIOR FINISHES TOTAL	\$12,939
51			
<i>52</i>	D20	PLUMBING	
<i>53</i>		Plumbing	\$6,810
54		PLUMBING TOTAL	\$6,810
55			
56	D20	INVAC	
57	D30	HVAC	¢Ω
58 59		HVAC HVAC TOTAL	\$0 \$0
60		HVAC TOTAL	30
61			
62	D40	FIRE PROTECTION	
63		Fire Protection	\$0
64		FIRE PROTECTION TOTAL	\$0
65			
66			
<i>67</i>	D50	ELECTRICAL	
68		Service and distribution	\$18,160
69		ELECTRICAL TOTAL	\$18,160
70			
71	740		
72	E10	EQUIPMENT	#F 000
73		Institutional Equipment	\$5,000
74 75		EQUIPMENT TOTAL	\$5,000
75 76			
77	E20	FURNISHINGS	
<i>78</i>	1120	Specialties / Millwork	\$4,540
79		FURNISHINGS TOTAL	\$4,540
80			, , -
81			
<i>82</i>	F10	SPECIAL CONSTRUCTION	
<i>83</i>		Special construction	\$24,970
84		SPECIAL CONSTRUCTION TOTAL	\$24,970
85			
86			



Providence, RI 454 GSF

DIRECT COST SUMMARY - IMAGINATION CENTER

	DIV.NO.	<u>ELEMENTS</u>	<u>TOTAL</u>
87	F20	SELECTIVE DEMOLITION	
-	120		40
88		Selective Demolition	\$0
89		SELECTIVE DEMOLITION TOTAL	\$0
90			
91			
92			
93	BUILDING	G TOTAL TRADE CONSTRUCTION COST	\$334,346
94			



Providence, RI 454 GSF

	<u>DESCRIPTION</u>	QUANTITY	<u>UNIT</u>	RATE/UNIT	TOTAL
11	A10 FOUNDATIONS				
<i>12</i>					
13	A1010 FOUNDATIONS				
14	Earthwork				
15	Slab-on-Grade platform preparation in Sitework Tab	454	SF		
16	Continuous footing w/foundation wall	110	LF		
<i>17</i>	Excavation	33.6	CY	\$12.00	See below
18	Backfill from import	3.6	CY	\$20.00	See below
19	Spread footings	4	EA		
20	Excavation	12.0	CY	\$12.00	See below
21	Backfill from import		CY	\$20.00	See below
<i>22</i>	Elevator pits - 8'-0"W x 8'-0"L x 5'-0"D	0	EA		
23	Excavation	0	CY	\$12.00	See below
24	Backfill from import	0.0	CY	\$20.00	See below
25	Disposal				
26	Cast to off-site waste	42	CY	\$22.00	See below
<i>27</i>	Grade & compact	454	SF	\$1.00	See below
28	12" base course sand & gravel below slab on grade	16.8	CY	\$25.00	See below
29					
<i>30</i>	Building over excavation:				
31	Over-excavation to remove topsoil	8	CY	\$8.00	\$67
32	50% Over-excavation Reused (stockpile on site)	4	CY	\$7.50	\$32
33	Dispose materials	4	CY	\$18.00	\$76
34 35	Structural fill	4	CY	\$28.00	\$118
35 36	Building Area:				
37	Cut and fill for building	17	CY	\$9.00	\$151
38	Gravel base to building	17	CY	\$38.00	\$639
39	draver base to banama		G.	Ψ00100	φ003
40	Perimeter foundation drain	88	LF	\$18.00	\$1,584
41					·
<i>42</i>	Concrete				
<i>43</i>	Continuous footings; 3' x 1' 0" typ.	110	LF		
44	Concrete; material	13.0	CY	\$150.00	\$1,950
<i>45</i>	Concrete; place (combination of pumping/trucking)	13.0	CY	\$95.00	\$1,235
46	Reinforcement w/ftn wall dowels (10#/lf)	1,100	LB	\$1.15	\$1,265
<i>47</i>	Formwork	220	SF	\$12.00	\$2,640
48	Spread footings	4	EA		
49	Concrete; material	22.0	CY	\$150.00	\$3,300



Providence, RI 454 GSF

	DESCRIPTION		<u>UNIT</u>	RATE/UNIT	TOTAL
<i>50</i>	Concrete; place	22.0	CY	\$95.00	\$2,090
51	Reinforcement (150#/cy)	3,300	LB	\$1.15	\$3,795
<i>52</i>	Formwork	309	SF	\$12.00	\$3,708
<i>53</i>	Foundation/Basement walls; 12" thick	440	SF		
54	Concrete; material	17	CY	\$150.00	\$2,550
<i>55</i>	Concrete; place	17	CY	\$95.00	\$1,615
56	Reinforcement (150#/cy)	2,550	LB	\$1.15	\$2,933
<i>57</i>	Formwork	924	SF	\$9.00	\$8,316
58	Brick shelf	110	LF	\$5.00	\$550
59	Anchor bolts	17	SET	\$35.00	\$605
60	Miscellaneous concrete	1	LS	\$0.00	\$0
61					
<i>62</i>	Thermal & Moisture Protection				
<i>63</i>	2" rigid insulation at foundation walls	440	SF	\$2.75	\$1,210
64	Damp proofing to foundation walls	440	SF	\$5.00	\$2,200
65					
<i>66</i>	Special Foundation Conditions				
<i>67</i>	Soil improvements	454	SF	\$28.00	\$12,712
68	Dewatering during excavation	1	LS	\$1,000.00	\$1,000
69	A1010 FOUNDATIONS TOTAL				\$56,340
70					
71					
<i>72</i>	A1030 SLAB ON GRADE				
<i>73</i>	Concrete				
<i>74</i>	Slab on grade	454	SF		
<i>75</i>	Concrete; material	8	CY	\$150.00	\$1,261
76	Concrete; place & finish	454	SF	\$2.75	\$1,249
<i>77</i>	Reinforcement (6x6 mesh)	522	SF	\$1.15	\$600
<i>78</i>	Slab depressions	10	LF	\$300.00	\$3,000
<i>79</i>	Slab thickening at stair 2'x2'x1' deep	88	LOC	\$250.00	\$22,000
80	Slab on grade at loading dock, 6" thick, #4 bars	600	SF		
81	Concrete; material	11.1	CY	\$150.00	\$1,667
<i>82</i>	Concrete; place & finish	600	SF	\$2.75	\$1,650
<i>83</i>	Reinforcement; #4@12"bew	804	LBS	\$1.15	\$925
84	Miscellaneous				
85	Housekeeping & mechanical equipment pads	1	LS	\$5,000.00	\$5,000
86	Miscellaneous concrete	1	LS	\$3,700.00	\$3,700
87					

Providence, RI 454 GSF

	<u>DESCRIPTION</u>	QUANTITY UNI	T RATE/UNIT	TOTAL
88	Thermal & Moisture Protection			
89	2" rigid insulation under slab	454 SF	\$2.65	\$1,203
90	Vapor retarder under slab	522 SF		• •
91	A1030 SLAB ON GRADE TOTAL		·	\$42,776
92				
93	A10 FOUNDATIONS TOTAL			\$99,117
94				
95				
96	A20 BASEMENT			
97				
98	No anticipated work			
99	-			
100	TOTAL SYSTEM A20 BASEMENT			\$0
<i>101</i>				
<i>102</i>				
<i>103</i>	B10 STRUCTURE			
<i>104</i>				
<i>105</i>	B1010 UPPER FLOOR CONSTRUCTION			
<i>106</i>	Structure	454 SF	\$50.00	\$22,700
<i>107</i>	Misc. Metals			
<i>108</i>	Misc. metals	454 SF	\$1.50	\$681
<i>109</i>				
<i>110</i>	Thermal & Moisture Protection			
111	Firestopping	454 GSF		\$454
112	Fireproofing	1 LS	\$3,500.00	\$3,500
113	B1010 UPPER FLOOR CONSTRUCTION TOTAL			\$27,335
114				
	B1020 ROOF CONSTRUCTION			
116	Structural steel			
117	Roof deck	454 SF		\$1,748
118	Premium for galv acoustic roof deck	454 sf	\$3.00	\$1,362
119	Other misc plates, connections	454 SF		\$454
120	Rough blocking to roof	454 SF	\$1.00	\$454
121				
122	Mechanical roof top equipment			NUC
123	Roof screen, galv, assume 13' high; HSS shapes			NIC
124	B1020 ROOF CONSTRUCTION TOTAL			\$4,018
<i>125</i>				



Providence, RI 454 GSF

	DESCRIPTION QUANTITY UNIT		RATE/UNIT	TOTAL	
126	TOTAL SYSTEM B10 SUPERSTRUCTURE			•	\$31,353
<i>127</i>				:	· ,
128					
129	B20 EXTERIOR CLOSURE				
130					
131	B2010 EXTERIOR WALLS				
132	Exterior walls	950	SF	\$75.00	\$71,280
133	B2010 EXTERIOR WALLS TOTAL			•	\$71,280
<i>134</i>					
<i>135</i>	B2020 EXTERIOR WINDOWS				
<i>136</i>	Windows/storefront	106	SF	\$110.00	\$11,616
<i>137</i>	B2020 EXTERIOR WINDOWS TOTAL				\$11,616
<i>138</i>					
139	B2030 EXTERIOR DOORS				
140	Doors	1	LVS	\$5,000.00	\$5,000
141	B2030 EXTERIOR DOORS TOTAL				\$5,000
<i>142</i>					
<i>143</i>	TOTAL SYSTEM B20 EXTERIOR CLOSURE				\$87,896
144					_
<i>145</i>					
146	B30 ROOFING				
<i>147</i>					
148	B3010 ROOF COVERINGS				
		554	SF	\$60.00	\$33,240
150	B3010 ROOF COVERINGS TOTAL				\$33,240
151					
<i>152</i>	TOTAL SYSTEM B30 ROOFING			:	\$33,240
<i>153</i>					
154					
155	C10 INTERIOR CONSTRUCTION				
156					
157	C1010 PARTITIONS				
158					.
159	Rough carpentry internal partitions and ceilings	454	SF	\$1.50	\$681
160	Misc metals for interior masonry (lintels, restraint)	454	SF	\$1.00	\$454
161	Later to a constant to Constant to				
162	Interior penetration firestopping	4= 4	CCE	#0 F0	4005
163	Interior caulking	454	GSF	\$0.50	\$227



Providence, RI 454 GSF

	<u>DESCRIPTION</u> <u>QUANTITY UNIT</u>		RATE/UNIT	TOTAL	
164	C1010 PARTITIONS TOTAL			_	\$1,362
165					
166	C1020 INTERIOR DOORS, FRAMES & HARDWARE				
<i>167</i>	Hollow Metal Doors and Frames:				
<i>168</i>	Door frames	2	EA	\$300.00	\$600
169	Door frames for pair doors	0	EA	\$350.00	\$0
<i>170</i>	Doors	2	EA	\$325.00	\$650
<i>171</i>					
<i>172</i>	Hardware	2	SET	\$750.00	\$1,500
<i>173</i>	Paint door frames	2	EA	\$80.00	\$160
174	Paint door	2	EA	\$70.00	\$140
<i>175</i>	Blocking at doors	34	LF	\$2.50	\$85
<i>176</i>	Door Installation	2	EA	\$150.00	\$300
177	C1020 INTERIOR DOORS, FRAMES & HARDWARE TOTAL	AL			\$3,435
<i>178</i>					
179	C1030 FITTINGS				
<i>180</i>					
181	Paint/finish	454	SF	\$3.00	\$1,362
182					
183	Signage				
184	Miscellaneous signage	454	GSF	\$3.00	\$1,362
<i>185</i>					
186	Fire extinguisher cabinets				
<i>187</i>	Semi-recessed/non-rated	1	EA	\$300.00	\$300
188					
189	Miscellaneous fittings	1	LS	\$2,500.00	\$2,500
190	C1030 FITTINGS TOTAL				\$5,524
191				_	
	TOTAL SYSTEM C10 INTERIOR CONSTRUCTION			=	\$10,321
193					
194					
	C20 STAIRCASES				
196					
197	C30 INTERIOR FINISHES				
198	60040 WAY F TWY GVPG				
	C3010 WALL FINISHES		COF	#0 = 0	h4 40=
	Paint Grand WALL DIVISION TO TAK	454	GSF	\$2.50 _	\$1,135
<i>201</i>	C3010 WALL FINISHES TOTAL				\$1,135



Providence, RI 454 GSF

	<u>DESCRIPTION</u>	QUANTITY UNIT		RATE/UNIT	TOTAL
202					
203	C3020 FLOOR FINISHES				
204	Flooring	454	SF	\$10.00	\$4,540
205					, ,-
206	Entrance mats				
<i>207</i>	Walk off mat	0	SF	\$35.00	\$0
<i>208</i>	C3020 FLOOR FINISHES TOTAL				\$4,540
<i>209</i>					
210	C3030 CEILING FINISHES				
211	Ceiling	454	SF	\$16.00 <u> </u>	\$7,264
212	C3030 CEILING FINISHES TOTAL				\$7,264
213					
214	TOTAL SYSTEM C30 INTERIOR FINISHES			<u> </u>	\$12,939
<i>215</i>					
216					
217	D15 MECHANICAL				
218					
219	D20 PLUMBING		CD	ф1 Г ОО	+
220	Plumbing	454	SF	\$15.00	\$6,810
221	D20 PLUMBING TOTAL				\$6,810
222	DOO MAAC				
223	D30 HVAC		CE	ф40.00	¢Ω
224	HVAC		SF	\$48.00	\$0
225 226	D30 HVAC TOTAL				\$0
226 227	D40 FIRE PROTECTION				
228	Sprinkler Coverage		SF	\$7.00	\$0
	D40 FIRE PROTECTION TOTAL		JI	\$7.00	\$0 \$0
230	D-TO TIME I NOT LETTON TO TAL				40
231	TOTAL SYSTEM D15 MECHANICAL				\$6,810
232	TO THE STOTE OF DESCRIPTIONE			_	Ψ0,010
233					
234	D50 ELECTRICAL				
235					
	D5011 SERVICE & DISTRIBUTION				
237	Interior Electrical	454	SF	\$40.00	\$18,160
238	D5011 SERVICE & DISTRIBUTION TOTAL			_	\$18,160
239					



Providence, RI 454 GSF

	DESCRIPTION	QUANTITY UNIT	RATE/UNIT	TOTAL
240 241	TOTAL SYSTEM D50 ELECTRICAL			\$18,160
242 243 244	E10 EQUIPMENT			
245 246 247 248 249 250	E1020 INSTITUTIONAL EQUIPMENT Miscellaneous equipment E1020 INSTITUTIONAL EQUIPMENT TOTAL TOTAL SYSTEM E10 FITTINGS & EQUIPMENT	1 AL	\$5,000.00	\$5,000 \$5,000 \$5,000
251 252 253 254 255 256 257 258	E20 FURNISHINGS E2020 SPECIALTIES / MILLWORK Miscellaneous specialties E2020 SPECIALTIES / MILLWORK TOTAL TOTAL SYSTEM E20 FURNISHINGS	454 SF	\$10.00	\$4,540 \$4,540 \$4,540
259 260 261 262 263 264 265 266 267 268	F10 SPECIAL CONSTRUCTION F1010 SPECIAL CONSTRUCTION Allow for relocation F1010 SPECIAL CONSTRUCTION TOTAL TOTAL SYSTEM F10 SPECIAL CONSTRUCTION	454 SF	\$55.00	\$24,970 \$24,970 \$24,970
269 270 271 272 273 274 275 276 277	F2020 SELECTIVE DEMOLITION Demolition of existing building allowance Haz mat removal allowance F2020 SELECTIVE DEMOLITION TOTAL TOTAL SYSTEM F20 DEMOLITION	SF		Main Summary Main Summary \$0 \$0



Providence, RI 454 GSF

<u>DESCRIPTION</u>	QUANTITY UNIT RATE/UNIT	TOTAL
278		
279	TOTAL TO SUMMARY	\$334,346
280	-	



Providence, RI 22,790 GSF

MAIN SUMMARY - GREATER KENNEDY PLAZA FREE SPACE PAVEMENT

	<u>DESCRIPTION</u>			<u>TOTAL</u>	COST/SF
1	Direct Trade Costs With Site				
2	Site Development		_	\$888,108	\$38.97
3	Direct Trade Cost SubTotal			\$888,108	\$38.97
4	Pricing Contingency	15.00%	\$888,108	\$133,216	\$5.85
5	Trade Cost SubTotal		_	\$1,021,324	\$44.81
6	General Conditions	5.75%	\$1,021,324	\$58,726	\$2.58
7	General Requirements	5.25%	\$1,080,050	\$56,703	\$2.49
8	Insurance	1.50%	\$1,136,753	\$17,051	\$0.75
9	Bond	0.65%	\$1,153,804	\$7,500	\$0.33
10	Permit	0.00%	\$1,161,304	\$0	\$0.00
11	Fee	3.00%	\$1,161,304	\$34,839	\$1.53
12	Estimated Construction Cost Total		_	\$1,196,143	\$52.49



Providence, RI 22,790 GSF

<u>DIRECT COST SUMMARY - GREATER KENNEDY PLAZA FREE SPACE NEW PAVEMENT</u>

	<u>ELEMENT</u>	<u>TOTAL</u>
11 12	F20 FACILITY REMEDIATION	\$0
13 14	F30 DEMOLITION	\$0
	G10 SITE PREPARATION	\$232,368
17 18		\$433,240
19 20		\$45,000
	G40 SITE ELECTRICAL UTILITIES	\$177,500
<i>23</i>	TOTAL	<u>\$888,108</u>
25 26		\$0001200
27 28		
29 30		
31 32		
33 34		
35 36		
37 38		
39 40		
41 42		
43 44		
45 46		



Providence, RI 22,790 GSF

SITEWORK DETAILS - GREATER KENNEDY PLAZA FREE SPACE NEW PAVEMENT

	<u>DESCRIPTION</u>	QUANTITY	<u>UNIT</u>	<u>UNIT COST</u>	<u>TOTAL</u>
11	F20 FACILITY REMEDIATION				
<i>12</i>					
<i>13</i>	F2010 Hazardous Materials Remediation				
14	Hazmat abatement/Soil Remediation				NIC
15	F20 FACILITY REMEDIATION TOTAL				\$0
16					
<i>17</i>					
18	F30 DEMOLITION				
19					
20	F3010 Structure Demolition				
21	Building demolition				NIC
<i>22</i>	F30 DEMOLITION TOTAL				\$0
<i>23</i>					
24					
25	G10 SITE PREPARATION				
<i>26</i>					
<i>27</i>	G1010 Site Clearing				
<i>28</i>	31 10 00 Site Clearing				
<i>29</i>	Site clearing		ACRES	\$10,000.00	\$5,200
<i>30</i>	Construction fence, install, maintain, remove & reinstall;	712	LF	\$12.00	\$8,544
<i>31</i>	Double construction gate	4	PR	\$2,500.00	\$10,000
<i>32</i>	Temporary construction entrance	2	LOC	\$7,000.00	\$14,000
<i>33</i>	Contractor parking				W/General Con
34	Contractor staging and laydown area	1,140	SF	\$2.00	\$2,279
<i>35</i>	Temp signs	1	LS	\$7,500.00	\$7,500
36	Wash down/re-fueling/parking allowance				W/General Con
37	31 23 19 Dewatering and Drainage	4	1.0	#4 5 000 00	₫4 ₽ 000
38	Dewatering for sitework excavation; allow	1	LS	\$15,000.00	\$15,000
39	31 25 00 Erosion and Sedimentation Controls	4	A T	#1 F00 00	¢1 500
40	Temporary seed cover	1	AL	\$1,500.00	\$1,500
41 42	Compost sock	235	LF	\$14.00	\$3,289
42 43	G1020 Site Demolition and Relocation				
43 44	02 41 00 Demolition				
44 45		1	LS	\$5,000.00	\$5,000
45 46	Saw cut existing pavement	1	ь		\$5,000
40 47	Protection of existing	1	AL	\$10,000.00	\$10,000
48	Protect drain and sewer line	500	LF	Ψ10,000.00	Incl above
49	Protect tree	23	EA		Incl above
<i>50</i>	110000000000000000000000000000000000000	23	ш		inci above
50	DIIV Rudget 20 Matrix 11 June 2021		ī	Datailad Kannady F	Davomont



Providence, RI 22,790 GSF

<u>SITEWORK DETAILS - GREATER KENNEDY PLAZA FREE SPACE NEW PAVEMENT</u>

	<u>DESCRIPTION</u>	<u>QUANTITY</u>	<u>UNIT</u>	<u>UNIT COST</u>	<u>TOTAL</u>
51 52 53 54 55 56 57 58 59 60	Remove & dispose Remove drain line Remove control valves Remove surface edging Remove sewer line Remove concrete pad Remove tree Silt sock G1020.01 Building Demolition	1	AL	\$10,000.00	\$10,000 Incl above
61 62	02 30 00 Building Demolition Building demoltion				See Above
63					
64 65 66	G1030 Site Earthwork Soils Characterization and Disposal; allowance Rock excavation	1	AL	\$15,000.00	\$15,000 NIC
<i>67</i>	Rough grading	2,532	SY	\$1.50	\$3,798
<i>68</i>	Fine grading	22,790	SF	\$1.00	\$22,790
<i>69</i>	Cut and fill	2,532	CY	\$9.00	\$22,790
70	Gravel base	422	CY	\$38.00	\$16,036
71	Temporary swales w/check dams	1	AL	\$50,000.00	\$50,000
<i>72</i>	Spread loam	422	CY	\$11.00	\$4,642
<i>73</i>	Temporary parking				NIC
74	Allow for miscellaneous repairs during construction	1	LS	\$5,000.00	\$5,000
<i>75</i>					
76	G10 SITE PREPARATION TOTAL				\$232,368
77					
78 79	C20 CITE IMPROVEMENTS				
80	G20 SITE IMPROVEMENTS				
81	G2020 Roadways				
82	Basketball Court Asphalt	4,700	SF	\$4.00	\$18,800
83	32 16 00 Curbs and Gutters	4,700	JI		NIC
84	52 To vo darbs and datters				1110
85	32 17 00 Paving Specialties				
86	Basketball court markings	1	AL	\$1,500.00	\$1,500
<i>87</i>	J			. ,	. ,
88	G2030 Pedestrian Paving				
89	32 13 10 Rigid Paving				NIC
90	Paving	18,090	SF	\$16.00	\$289,440
	PUV Budget 30 Matrix 11 June 2021 Printed 6/11/2021			Detailed Kennedy FS Page 2	Pavement 161 of 231

Providence, RI 22,790 GSF

<u>SITEWORK DETAILS - GREATER KENNEDY PLAZA FREE SPACE NEW PAVEMENT</u>

	<u>DESCRIPTION</u>	<u>QUANTITY</u>	<u>UNIT</u>	<u>UNIT COST</u>	<u>TOTAL</u>
91					
92	G2040 Site Development				
93	G2040.01 Fences and Gates				
94	32 31 00 Fences and Gates				
95	Fences and gates	1	AL	\$100,000.00	\$100,000
96					
97	G2040.02 Site and Street Furnishes				
98	Signage	1	EA	\$1,500.00	\$1,500
99	Basketball Backstop and pole	2	EA	\$3,500.00	\$7,000
100	Miscellaneous site improvements	1	LS	\$15,000.00	\$15,000
101	G0070 00 7				
102	G2050.02 Lawns and Grasses				
103	32 92 00 Turfs and Grasses				
104	No work in this section				
105 106	G2050.03 Trees, Plants and Ground Covers				
107	G20 SITE IMPROVEMENTS TOTAL				\$433,240
107	UZU SITE IMI KOVEMENTS TOTAL				\$ 1 33,240
100					
110	G30 SITE CIVIL/MECHANICAL UTILITIES				
111					
112	G3010 Water Utilities	1	AL	\$15,000.00	\$15,000
113					·
114	G3020 Sanitary Sewerage Utilities	1	AL	\$15,000.00	\$15,000
<i>115</i>					
116	G3030 Storm Drainage Utilities	1	LS	\$15,000.00	\$15,000
117					
118					
119	33 50 00 Gas Service				
120	Connection to existing gas main				NIC
121	Gas Line Trench				NIC
122	COO CUTE CHAIL (MECHANICAL LUTH UTIEC TOTAL			_	#45.000
123	G30 SITE CIVIL/MECHANICAL UTILITIES TOTAL				\$45,000
124 125					
125 126	G40 SITE ELECTRICAL UTILITIES				
120 127	GTO SITE ELECTRICAL UTILITIES				
128	G4010 Site Electrical Utilities				
129	Site lighting	4	EA	\$25,000.00	\$100,000
130	Event power and trenching:	•		+= 0,000.00	+ 200,000
_50	PUV Budget 30 Matrix 11 June 2021 Printed 6/11/2021	0		Detailed Kennedy FS P Page 16	avement 52 of 231

Providence, RI 22,790 GSF

SITEWORK DETAILS - GREATER KENNEDY PLAZA FREE SPACE NEW PAVEMENT

	<u>DESCRIPTION</u>	<u>QUANTITY</u>	<u>UNIT</u>	<u>UNIT COST</u>	<u>TOTAL</u>
131	1" Pvc, 4#8 UG	500	LF	\$50.00	\$25,000
<i>132</i>	Empty conduit	500	LF	\$75.00	\$37,500
<i>133</i>	Site Lighting Controls	1	LS	\$15,000.00	\$15,000
<i>134</i>					
<i>135</i>	G40 SITE ELECTRICAL UTILITIES TOTAL				\$177,500
<i>136</i>					
<i>137</i>					
<i>138</i>		TOT	AL SITE	WORK SUMMARY	\$888,108
<i>139</i>				_	



Providence, RI 8,050 GSF

MAIN SUMMARY - GREATER KENNEDY PLAZA FREE SPACE CATENARY

	<u>DESCRIPTION</u>			<u>TOTAL</u>	<u>COST/SF</u>
1	Direct Trade Costs With Site				
2	Site Development			\$702,611	\$87.28
3	Direct Trade Cost SubTotal			\$702,611	\$87.28
4	Pricing Contingency	15.00%	\$702,611	\$105,392	\$13.09
5	Trade Cost SubTotal		· <u>-</u>	\$808,003	\$100.37
6	General Conditions	5.75%	\$808,003	\$46,460	\$5.77
7	General Requirements	5.25%	\$854,463	\$44,859	\$5.57
8	Insurance	1.50%	\$899,322	\$13,490	\$1.68
9	Bond	0.65%	\$912,812	\$5,933	\$0.74
10	Permit	0.00%	\$918,745	\$0	\$0.00
11	Fee	3.00%	\$918,745	\$27,562	\$3.42
<i>12</i>	Estimated Construction Cost Total		_	\$946,308	\$117.55
13	Escalation			\$42,584	\$5.29
14	Estimated Construction Cost Total With Escalation		_	\$1,035,877	\$128.68



Providence, RI 8,050 GSF

DIRECT COST SUMMARY - GREATER KENNEDY PLAZA CATENARY

	<u>ELEMENT</u>	<u>TOTAL</u>
11 12	A10 FOUNDATIONS	\$61,233
	B10 STRUCTURE	\$130,000
	G10 SITE PREPARATION	\$15,828
	G20 SITE IMPROVEMENTS	\$366,750
19 20	G40 SITE ELECTRICAL UTILITIES	\$128,800
21 22	TOTAL	<u>\$702,611</u>
23 24		
25 26		
27 28		
29 30 31		
32 33		
34 35		
36 37		
38 39		
40 41		
42 43		
44		



Providence, RI 8,050 GSF

SITEWORK DETAILS - GREATER KENNEDY PLAZA FREE SPACE CATENARY

	<u>DESCRIPTION</u>	QUANTITY UN	<u>VIT</u>	<u>UNIT COST</u>	<u>TOTAL</u>
11	A10 FOUNDATIONS				
12					
13	A1010 FOUNDATIONS				
14	Earthwork				
15	Footings		EΑ		
16	Excavation		CY	\$12.00	See below
<i>17</i>	Backfill from import		CY	\$20.00	See below
18	Cast to off-site waste		CY	\$22.00	See below
19	Grade & compact	•	SF	\$1.00	See below
20	12" base course sand & gravel	298.1 C	CY	\$25.00	See below
21					
<i>22</i>	Building over excavation:				
<i>23</i>	Over-excavation to remove topsoil		CY	\$8.00	\$400
24	Dispose materials		CY	\$18.00	\$450
<i>25</i>	Structural fill	24 C	CY	\$28.00	\$672
<i>26</i>					
<i>27</i>	Perimeter foundation drain	407 L	LF	\$18.00	\$7,326
<i>28</i>					
<i>29</i>	Footings	4 E			
<i>30</i>	Concrete; material		CY	\$150.00	\$7,500
<i>31</i>	Concrete; place	50.0 C	CY	\$95.00	\$4,750
<i>32</i>	Reinforcement (150#/cy)	•	ъВ	\$1.15	\$8,625
<i>33</i>	Formwork		SF	\$25.00	\$17,850
34	Anchor bolts	16 SI	ET	\$35.00	\$560
<i>35</i>	Miscellaneous concrete	1 I	LS	\$3,100.00	\$3,100
<i>36</i>					
<i>37</i>	Special Foundation Conditions				
<i>38</i>	Dewatering during excavation	1 I	LS	\$10,000.00	\$10,000
<i>39</i>	A1010 FOUNDATIONS TOTAL				\$61,233
40					
41	A10 FOUNDATIONS TOTAL				\$61,233
<i>42</i>					
<i>43</i>					
44	B10 STRUCTURE				
<i>45</i>					
46	B1020 ROOF CONSTRUCTION				
<i>47</i>	Structural steel				
48	Poles		EΑ	\$30,000.00	\$120,000
49	Other misc plates, connections	1 A	AL	\$10,000.00	\$10,000
50					
I	PUV Budget 30 Matrix 11 June 2021			Detail Est Kennedy	Catenary



Providence, RI 8,050 GSF

SITEWORK DETAILS - GREATER KENNEDY PLAZA FREE SPACE CATENARY

	<u>DESCRIPTION</u>	<u>QUANTITY</u>	<u>UNIT</u>	<u>UNIT COST</u>	<u>TOTAL</u>
51	Mechanical roof top equipment				
<i>52</i>	Roof screen, galv, assume 13' high; HSS shapes				NIC
<i>53</i>	B1020 ROOF CONSTRUCTION TOTAL				\$130,000
54					
<i>55</i>	B10 STRUCTURE TOTAL				\$130,000
56					
<i>57</i>					
<i>58</i>	G10 SITE PREPARATION				
59	64040 6'' 61 '				
60	G1010 Site Clearing				
61	31 10 00 Site Clearing	444	ır	¢12.00	ቀ ሮ 220
62	Construction fence, install, maintain, remove & reinstall;	444	LF	\$12.00	\$5,328
63	Double construction gate	2	PR	\$2,500.00	\$5,000
64 65	Contractor storing and lawdown area				W/General Con
66	Contractor staging and laydown area Temp signs	1	LS	\$500.00	W/General Con \$500
67	Wash down/re-fueling/parking allowance	1	LS	\$300.00	W/General Con
68	wash down/re-ruening/parking anowance				w/deficial con
69	G1020 Site Demolition and Relocation				
<i>70</i>	02 41 00 Demolition				
71	Cutting and patching	1	AL	\$5,000.00	\$5,000
72	G1010 Site Clearing Total	_	112	45,000100	\$15,828
73					4-5,5-5
<i>74</i>	G10 SITE PREPARATION TOTAL				\$15,828
<i>75</i>					
<i>76</i>					
<i>77</i>	G20 SITE IMPROVEMENTS				
<i>78</i>					
<i>7</i> 9	G2040 Site Development				
80	G2040.02 Site and Street Furnishes				
81	Signage	1	EA	\$1,000.00	\$1,000
<i>82</i>	Fabric	4,025	SF	\$90.00	\$362,250
<i>83</i>	Miscellaneous site improvements	1	LS	\$3,500.00	\$3,500
84	G2040 Site Development Total				\$366,750
85					
86	G20 SITE IMPROVEMENTS TOTAL				\$366,750
<i>87</i>					
88					
89	G40 SITE ELECTRICAL UTILITIES				



Providence, RI 8,050 GSF

SITEWORK DETAILS - GREATER KENNEDY PLAZA FREE SPACE CATENARY

	<u>DESCRIPTION</u>	QUANTITY	<u>UNIT</u>	<u>UNIT COST</u>	<u>TOTAL</u>
91	G4010 Site Electrical Utilities				
92	Site lighting	8,050	SF	\$16.00	\$128,800
93	G4010 Site Electrical Utilities Total				\$128,800
94					
95	G40 SITE ELECTRICAL UTILITIES TOTAL				\$128,800
96					
97					
98			TOT	TAL SUMMARY	\$702,611
99				-	



Providence Unified Vision Exchange Terrace Storage Providence, RI

8,588 GSF

MAIN SUMMARY - EXCHANGE TERRACE STORAGE

	<u>DESCRIPTION</u>			<u>TOTAL</u>	COST/SF
11	Direct Trade Costs With Site				
<i>12</i>	Rehabilitation	8,588	GSF	\$2,075,079	\$241.63
<i>13</i>	Site Development			Part of Kennedy F	Plaza
14					
15	Direct Trade Cost SubTotal			\$2,075,079	\$241.63
16					
<i>17</i>	Pricing Contingency	15.00%	\$2,075,079	\$311,262	\$36.24
18					
19	Direct Trade Cost Total			\$2,386,341	\$1.15
20					
21	General Conditions	5.25%	\$2,386,341	\$125,283	\$14.59
<i>22</i>	General Requirements	1.50%	\$2,511,624	\$37,674	\$4.39
<i>23</i>	Insurance	0.65%	\$2,549,298	\$16,570	\$1.93
24	Bonds	0.00%	\$2,565,869	\$0	\$0.00
<i>25</i>	Permits	3.00%	\$2,565,869	\$76,976	\$8.96
<i>26</i>	Fee	0.00%	\$2,642,845	\$0	\$0.00
<i>27</i>					
<i>28</i>	Estimated Construction Cost Total			\$2,642,845	\$307.74
<i>29</i>					
<i>30</i>					
<i>31</i>					
<i>32</i>					
33					
34					
35					
<i>36</i>					



37 38 39

Providence, RI 8,588 GSF

<u>DIRECT COST SUMMARY - EXCHANGE TERRACE STORAGE</u>

	<u>ELEMENT</u>	<u>TOTAL</u>	COST/SF
10 11 12	A10 FOUNDATIONS	\$90,264	\$10.51
13 14	A20 BASEMENT	\$0	\$0.00
15 16	B10 STRUCTURE	\$25,764	\$3.00
17 18	B20 EXTERIOR CLOSURE	\$274,140	\$31.92
19 20	B30 ROOFING	\$78,704	\$9.16
21 22	C10 INTERIOR CONSTRUCTION	\$542,901	\$63.22
23 24	C20 STAIRCASES	\$0	\$0.00
25 26	C30 INTERIOR FINISHES	\$109,448	\$12.74
27 28	D10 CONVEYING SYSTEMS	\$0	\$0.00
29 30	D20 PLUMBING	\$154,584	\$18.00
31 32	D30 HVAC	\$171,760	\$20.00
33 34	D40 FIRE PROTECTION	\$60,116	\$7.00
35 36	D50 ELECTRICAL	\$429,400	\$50.00
37 38	E10 EQUIPMENT	\$65,000	\$7.57
39 40	E20 FURNISHINGS	\$72,998	\$8.50
41 42	F10 SPECIAL CONSTRUCTION	\$0	\$0.00
43 44	F20 SELECTIVE DEMOLITION	\$0	\$0.00
45 46 47	TOTAL	<u>\$2,075,079</u>	<u>\$241.63</u>



Providence, RI 8,588 GSF

DIRECT COST SUMMARY - EXCHANGE TERRACE STORAGE

	DIV.NO.	<u>ELEMENTS</u>	<u>TOTAL</u>
11	A10	FOUNDATIONS	
<i>12</i>	-	Foundations	\$64,500
<i>13</i>		Slab on Grade	\$25,764
14		FOUNDATIONS TOTAL	\$90,264
15			
16			
<i>17</i>	A20	BASEMENT CONSTRUCTION	\$0
18			
19			
20	B10	STRUCTURE	
21		Upper Floor Construction	\$0
<i>22</i>		Roof Construction	\$25,764
<i>23</i>		STRUCTURE TOTAL	\$25,764
24			
<i>25</i>			
26	B20	EXTERIOR CLOSURE	
<i>27</i>		Exterior walls	\$274,140
<i>28</i>		Exterior windows	\$0
29		Exterior Doors	\$0
<i>30</i>		EXTERIOR CLOSURE TOTAL	\$274,140
31			
<i>32</i>			
<i>33</i>	B30	ROOFING	
34		Roof Coverings	\$78,704
<i>35</i>		ROOFING TOTAL	\$78,704
<i>36</i>			
<i>37</i>			
<i>38</i>	C10	INTERIOR CONSTRUCTION	
<i>39</i>		Partitions	\$237,252
40		Interior Doors, frames & Hardware	\$88,705
41		Fittings	\$216,944
42		INTERIOR CONSTRUCTION TOTAL	\$542,901
<i>43</i>			
44	600	aman a a a a a a	
45	C20	STAIRCASES	
46		Staircases	\$0
47		STAIRCASES TOTAL	\$0
48			



Providence, RI 8,588 GSF

DIRECT COST SUMMARY - EXCHANGE TERRACE STORAGE

	DIV.NO.	<u>ELEMENTS</u>	<u>TOTAL</u>
40			
49 50	C30	INTERIOR FINISHES	
50 51	C30	Wall finishes	\$41,470
52		Floor finishes	\$40,453
<i>53</i>		Ceiling finishes	\$27,525
<i>54</i>		INTERIOR FINISHES TOTAL	\$109,448
<i>55</i>			4-00,000
56			
<i>57</i>	D10	VERTICAL MOVEMENT	
58		Conveying System	\$0
59		VERTICAL MOVEMENT TOTAL	\$0
60			
61			
<i>62</i>	D20	PLUMBING	
63		Plumbing	\$154,584
64		PLUMBING TOTAL	\$154,584
65			
66 67	D30	HVAC	
68	טטע	HVAC	\$171,760
69		HVAC TOTAL	\$171,760
<i>70</i>		IIVIIG TOTILL	Ψ1/1,/00
71			
<i>72</i>	D40	FIRE PROTECTION	
<i>73</i>		Fire Protection	\$60,116
74		FIRE PROTECTION TOTAL	\$60,116
<i>75</i>			
76			
<i>77</i>	D50	ELECTRICAL	
<i>78</i>		Service and distribution	\$429,400
79		ELECTRICAL TOTAL	\$429,400
80			
81 92	E10	EQUIDMENT	
82 83	E10	EQUIPMENT Institutional Equipment	¢65 000
84		EQUIPMENT TOTAL	\$65,000 \$65,000
85		EQUITMENT TOTAL	\$03,000
86			
50			



Providence, RI 8,588 GSF

DIRECT COST SUMMARY - EXCHANGE TERRACE STORAGE

	DIV.NO.	<u>ELEMENTS</u>	<u>TOTAL</u>
87	E20	FURNISHINGS	
88		Specialties / Millwork	\$72,998
89		FURNISHINGS TOTAL	\$72,998
90			,
91			
92	F10	SPECIAL CONSTRUCTION	
93		Special construction	\$0
94		SPECIAL CONSTRUCTION TOTAL	\$0
95			
96			
97	F20	SELECTIVE DEMOLITION	
98		Selective Demolition	\$0
99		SELECTIVE DEMOLITION TOTAL	\$0
<i>100</i>			
101			
<i>102</i>			
<i>103</i>	BUILDING	G TOTAL TRADE CONSTRUCTION COST	\$2,075,079
104			



Providence, RI 8,588 GSF

	<u>DESCRIPTION</u>	QUANTITY	<u>UNIT</u>	RATE/UNIT	TOTAL
11	A10 FOUNDATIONS				
<i>12</i>					
<i>13</i>	A1010 FOUNDATIONS				
14	Allow for minimal amount of earthwork	1	LS	\$15,000.00	\$15,000
15	D. 1111 A				
16	Building Area:				NIC
17 18	Cut and fill for building Gravel base to building				NIC NIC
10 19	Graver base to building				NIC
20	Allow for perimeter foundation drainage system added	1,000	LF	\$26.00	\$26,000
21		,		•	, ,
<i>22</i>	Concrete				
<i>23</i>	Minimal work in concrete	1	LS	\$15,000.00	\$15,000
24					
<i>25</i>	Special Foundation Conditions				
<i>26</i>	Soil improvements				NIC
<i>27</i>	Dewatering during excavation	1	LS	\$8,500.00	\$8,500
28	A1010 FOUNDATIONS TOTAL				\$64,500
29					
30	A4020 CLAD ON CDADE				
31 32	Allow for golf leveling	0 500	CE	¢2 00	¢25 764
32 33	Allow for self leveling A1030 SLAB ON GRADE TOTAL	8,588	SF	\$3.00	\$25,764 \$25,764
34	A1030 SLAD ON GRADE TOTAL				\$23,704
<i>35</i>	A10 FOUNDATIONS TOTAL			-	\$90,264
36				=	470,201
<i>37</i>					
<i>38</i>	A20 BASEMENT				
<i>39</i>					
40	No anticipated work				
41				<u>-</u>	
<i>42</i>	TOTAL SYSTEM A20 BASEMENT			<u>=</u>	\$0
<i>43</i>					
44	D.4.0 (PPD-1/2PV)				
45	B10 STRUCTURE				
46	B1010 UPPER FLOOR CONSTRUCTION				
47 48					
40	No anticipated work				



Providence, RI 8,588 GSF

	ESCRIPTION QUANTITY UNIT		RATE/UNIT	TOTAL		
49	B1010 UPPER FLOOR CONSTRUCTION TOTAL					\$0
50						
51	B1020 ROOF CONSTRUCTION					
<i>52</i>	Structural steel					
53	Roof deck		SF	\$3.85		
54	Premium for galv acoustic roof deck		sf	\$3.00	NIC	
<i>55</i>	Other misc plates, connections	8,588	SF	\$2.00		\$17,176
56	Rough blocking to roof	8,588	SF	\$1.00		\$8,588
<i>57</i>						
58	Mechanical roof top equipment					
59	Roof screen, galv, assume 13' high; HSS shapes				NIC	
<i>60</i>	B1020 ROOF CONSTRUCTION TOTAL					\$25,764
61						
<i>62</i>	TOTAL SYSTEM B10 SUPERSTRUCTURE					\$25,764
<i>63</i>						
64						
65	B20 EXTERIOR CLOSURE					
<i>66</i>						
<i>67</i>	B2010 EXTERIOR WALLS					
68						
69	Allow for miscellaneous exterior wall patching/new	8,588	SF	\$30.00		\$257,640
70	Caulking and sealants	1	LS	\$3,000.00		\$3,000
<i>71</i>						
<i>72</i>	Miscellaneous					
<i>73</i>	Allow for precast trim pieces	1	LS	\$5,000.00		\$5,000
74	Louvers	100	SF	\$85.00		\$8,500
<i>75</i>	B2010 EXTERIOR WALLS TOTAL				\$	274,140
<i>76</i>						
77	B2020 EXTERIOR WINDOWS					
<i>78</i>	No anticipated work					
<i>79</i>	B2020 EXTERIOR WINDOWS TOTAL					\$0
80						
81	B2030 EXTERIOR DOORS					
<i>82</i>	No anticipated work					
<i>83</i>	B2030 EXTERIOR DOORS TOTAL					\$0
84						
85	TOTAL SYSTEM B20 EXTERIOR CLOSURE				\$	274,140
86						



Providence, RI 8,588 GSF

	<u>DESCRIPTION</u>	QUANTITY	<u>UNIT</u>	RATE/UNIT	TOTAL
07					
87	D20 D00FING				
88 89	B30 ROOFING				
90	B3010 ROOF COVERINGS				
91	DS010 ROOT COVERINGS				
92	Roofing				
93	Allow for miscellaneous repairs as necessary	8,588	SF	\$8.00	\$68,704
94		5,555	-	,	400,000
95	Roofing Accessories				
96	Miscellaneous roof accessories	1	LS	\$10,000.00	\$10,000
97	Roof screens				NIC
98	B3010 ROOF COVERINGS TOTAL				\$78,704
99					
<i>100</i>	TOTAL SYSTEM B30 ROOFING				\$78,704
<i>101</i>					
<i>102</i>					
<i>103</i>	C10 INTERIOR CONSTRUCTION				
104					
105	C1010 PARTITIONS				
106	Management				
107 108	Masonry partitions Partitions	5,500	SF	\$25.00	¢127 E00
100	Partitions	5,500	Sr	\$25.00	\$137,500
110	Gypsum board partitions				
111	Drywall partitions	2,000	SF	\$16.00	\$32,000
112	Rough carpentry internal partitions and ceilings	8,588	SF	\$1.50	\$12,882
113	Misc metals for interior masonry (lintels, restraint)	5,500	SF	\$1.00	\$5,500
114	,	-,		,	, , , , , ,
115	Interior storefront				
<i>116</i>	Interior storefront	500	SF	\$85.00	\$42,500
<i>117</i>					
118	Interior penetration firestopping				
119	Interior caulking	8,588	GSF	\$0.50	\$4,294
<i>120</i>	Top-of-partition firestopping	8,588	GSF	\$0.30	\$2,576
121	C1010 PARTITIONS TOTAL				\$237,252
<i>122</i>					
123	C1020 INTERIOR DOORS, FRAMES & HARDWARE				
<i>124</i>	Hollow Metal Doors and Frames:				



Providence, RI 8,588 GSF

	DESCRIPTION	QUANTITY	<u>UNIT</u>	RATE/UNIT	TOTAL
125	Door frames	16	EA	\$300.00	\$4,800
126	Door frames for pair doors	6	EA	\$350.00	\$2,100
<i>127</i>	Doors	28	EA	\$325.00	\$9,100
<i>128</i>	Premium cost for acoustical doors	1	LS	\$1,500.00	\$1,500
129					
<i>130</i>	Aluminum-Framed Entrances and Storefronts:				
<i>131</i>	Interior aluminum entry doors	4	LVS	\$3,650.00	\$14,600
<i>132</i>					
133	Access Doors and Frames				
134	Access doors	10	EA	\$300.00	\$3,000
<i>135</i>	Powered door openers	4	LOC	\$3,500.00	\$14,000
136					
137	Door sidelights	250	SF	\$35.00	\$8,750
138	Glazing to doors	1	AL	\$1,000.00	\$1,000
139	** 1	20	OP.	ф пг о оо	404.000
140	Hardware	28		\$750.00	\$21,000
141	Paint door frames	22	EA	\$80.00	\$1,760
142	Paint door	28	EA	\$70.00	\$1,960
143	Blocking at doors	374	LF	\$2.50	\$935
144	Door Installation	28	EA	\$150.00 _	\$4,200
145 146	C1020 INTERIOR DOORS, FRAMES & HARDWARE TOTAL	AL			\$88,705
140	C1030 FITTINGS				
148	C1030 FIT TINUS				
149	Markerboards	500	SF	\$28.00	\$14,000
150	Combination Boards	200	SF	\$25.00	\$5,000
151	dombination boards	200	O1	Ψ20.00	Ψ3,000
152	Signage				
153	Commemorative plaque	1	LOC	\$1,500.00	\$1,500
154	Dimensional characters; name	1	AL	\$5,000.00	\$5,000
155	Plastic panel signs for room identification, way finding,	1	Λī		
155	hazard identification	1	AL	\$7,500.00	\$7,500
156	Framed paper signs	1	AL	\$2,500.00	\$2,500
<i>157</i>	Miscellaneous signage	8,588	GSF	\$1.35	\$11,594
158					
159	Wall & corner guards				
160	Stainless steel corner guards	1	LS	\$1,000.00	\$1,000
161					



Providence, RI 8,588 GSF

	DESCRIPTION	QUANTITY	<u>UNIT</u>	RATE/UNIT	TOTAL
162	Toilet compartments (Solid Polymer)			+4.000.00	+0
163	Toilet compartments	20	EA	\$1,200.00	\$24,000
164	Toilet compartments - ADA	20	EA	\$1,400.00	\$28,000
<i>165</i>					
166	Metal lockers				
167	Lockers	1	AL	\$50,000.00	\$50,000
168	Staff lockers, single tier, 12" x 12" x 6' high	6	EA	\$250.00	\$1,500
169					
170	Toilet accessories				
171	Combination PTD/WR unit	50	EA	\$150.00	\$7,500
172	Paper towel dispensers	20	EA	\$100.00	\$2,000
173	Soap dispensers	20	EA	\$35.00	\$700
174	Toilet paper dispensers	20	EA	\$65.00	\$1,300
<i>175</i>	Sanitary napkin disposal units	14	EA	\$250.00	\$3,500
<i>176</i>	Robe hook	50	EA	\$25.00	\$1,250
<i>177</i>	Grab bars	60	PR	\$160.00	\$9,600
<i>178</i>	Mirrors - in gang bathrooms	20	EA	\$300.00	\$6,000
179	Mirrors - in private bathrooms	20	EA	\$150.00	\$3,000
<i>180</i>	Mop holder w/shelf (Janitors)	5	EA	\$200.00	\$1,000
181					
<i>182</i>	Fire extinguisher cabinets				
183	Fully recessed/non-rated	6	EA	\$450.00	\$2,700
184	Semi-recessed/non-rated	6	EA	\$300.00	\$1,800
<i>185</i>					
186	Miscellaneous fittings	1	LS	\$25,000.00	\$25,000
<i>187</i>	C1030 FITTINGS TOTAL				\$216,944
188					
189	TOTAL SYSTEM C10 INTERIOR CONSTRUCTION				\$542,901
<i>190</i>					
191					
192	C20 STAIRCASES				
193					
194					
195	Interior stairs				
	Egress stairs				NIC
197	Concrete to metal pan stairs				NIC
198					
199	Stair finishes				

Providence, RI 8,588 GSF

	<u>DESCRIPTION</u>	QUANTITY	<u>UNIT</u>	RATE/UNIT	1	<u>rotal</u>
200	Deilings	0	I C		NIC	
200 201	Railings Rubber flooring	0	LS SF	\$8.00	NIC NIC	
201	Rubber flooring (Risers)	0	Sr LF	\$6.00 \$15.50		
202	C2010 STAIRCASES TOTAL	U	PI.	\$13.30	IVIC	\$0
203	CZUIU STAIRCASES TOTAL					φU
205	TOTAL C20 STAIRCASES					\$0
206	TO THE C20 STARCASES					Ψ0
207						
208	C30 INTERIOR FINISHES					
209						
210	C3010 WALL FINISHES					
211	Fabric wrapped fiberglass panels	500	SF	\$15.00		\$7,500
212	Miscellaneous wall finish	500	SF	\$25.00		\$12,500
<i>213</i>	Paint	8,588	GSF	\$2.50		\$21,470
<i>214</i>	C3010 WALL FINISHES TOTAL				•	\$41,470
<i>215</i>						
216	C3020 FLOOR FINISHES	8,588				
<i>217</i>	Flooring					
<i>218</i>	Flooring	5,738	SF	\$6.00		\$34,428
219						
<i>220</i>	Painting					
<i>221</i>	Sealed concrete	2,500	SF	\$1.50		\$3,750
<i>222</i>						
<i>223</i>	Entrance mats					
224	Walk off mat	350	SF	\$6.50		\$2,275
<i>225</i>	C3020 FLOOR FINISHES TOTAL					\$40,453
226						
	C3030 CEILING FINISHES	- 224	a n	40.00		h4 4 ==4
	Paint exposed ceilings	7,386	SF	\$2.00		\$14,771
229	GWB ceilings	773	SF	\$15.00		\$11,594
230	Paint GWB ceilings	773	SF	\$1.50	-	\$1,159
231	C3030 CEILING FINISHES TOTAL					\$27,525
232 233	TOTAL SYSTEM C30 INTERIOR FINISHES					5109,448
233 234	TOTAL STSTEM CSU INTERIOR FINISHES					109,440
235						
236	D10 CONVEYING SYSTEMS					
237	DIO CONVETING SISTEMS					
437						



Providence, RI 8,588 GSF

	DESCRIPTION	QUANTITY	<u>UNIT</u>	RATE/UNIT	TOTAL
238	D1010 CONVEYING SYSTEMS				
239	Elevators		EA		\$0
240	Elevator pit ladder		EA		\$0
241	Sill angles		LF		\$0
242	Hoist beam		EA		\$0
243	D1010 CONVEYING SYSTEMS TOTAL			_	\$0
244					
245	TOTAL SYSTEM D10 CONVEYING SYSTEMS			_	\$0
246				=	
247					
248	D15 MECHANICAL				
249					
<i>250</i>	D20 PLUMBING				
<i>251</i>	Plumbing	8,588	SF	\$18.00_	\$154,584
<i>252</i>	D20 PLUMBING TOTAL				\$154,584
<i>253</i>					
254	D30 HVAC				
<i>255</i>	HVAC	8,588	SF	\$20.00	\$171,760
256	D30 HVAC TOTAL				\$171,760
<i>257</i>					
<i>258</i>	D40 FIRE PROTECTION				
<i>259</i>	Sprinkler Coverage	8,588	SF	\$7.00_	\$60,116
<i>260</i>	D40 FIRE PROTECTION TOTAL				\$60,116
<i>261</i>				_	
<i>262</i>	TOTAL SYSTEM D15 MECHANICAL			_	\$386,460
<i>263</i>					
264					
	D50 ELECTRICAL				
266					
	D5011 SERVICE & DISTRIBUTION	0.700		±=- 0 0 0	
268	Interior Electrical	8,588	SF	\$50.00 <u> </u>	\$429,400
269	D5011 SERVICE & DISTRIBUTION TOTAL				\$429,400
270				_	* * * * * * * * * *
271	TOTAL SYSTEM D50 ELECTRICAL			=	\$429,400
272					
273	E4.0 FOUNDMENT				
274	E10 EQUIPMENT				
<i>275</i>					



Providence, RI 8,588 GSF

	<u>DESCRIPTION</u>	QUANTITY UN	IT RATE/UNIT	TOTAL
276 277 278 279	E1020 INSTITUTIONAL EQUIPMENT Allow for equipment E1020 INSTITUTIONAL EQUIPMENT TOTAL	1 AI	\$65,000.00	\$65,000 \$65,000
280 281 282	TOTAL SYSTEM E10 FITTINGS & EQUIPMENT			\$65,000
283 284	E20 FURNISHINGS			
285 286	E2020 SPECIALTIES / MILLWORK Finish Carpentry			
287 288	Misc millwork standing and running trim	8,588 SI	\$4.00	\$34,352
289	<u>Furnishings</u>			
290 291	Casework	8,588 SI	\$2.00	\$17,176
292 293	Furnishings miscellaneous metals	8,588 SI	\$2.50	\$21,470
294 295	Window treatment			
296 297	E2020 SPECIALTIES / MILLWORK TOTAL			\$72,998
298 299 300	TOTAL SYSTEM E20 FURNISHINGS			\$72,998
301 302	F10 SPECIAL CONSTRUCTION			
	F1010 SPECIAL CONSTRUCTION			
304	No work in this section			\$0
305 306	F1010 SPECIAL CONSTRUCTION TOTAL			\$0
307 308 309	TOTAL SYSTEM F10 SPECIAL CONSTRUCTION			\$0
310 311	F20 SELECTIVE DEMOLITION			
312	F2020 SELECTIVE DEMOLITION			
313	Demolition of existing building allowance	SI	ì	Main Summary



Providence, RI 8,588 GSF

	DESCRIPTION	QUANTITY UNIT	RATE/UNIT	TOTAL
314	Haz mat removal allowance			Main Summary
<i>315</i>	F2020 SELECTIVE DEMOLITION TOTAL			\$0
<i>316</i>				
<i>317</i>	TOTAL SYSTEM F20 DEMOLITION			\$0
318				
319		TOTAL	TO SUMMARY	\$2,075,079
<i>320</i>				



Providence, RI 12,500 GSF

MAIN SUMMARY - NEW ELEVATED CROSSING PLATFORM

	<u>DESCRIPTION</u>			<u>TOTAL</u>	COST/SF
11	Direct Trade Costs With Site				
<i>12</i>	New Construction	12,500	GSF	\$6,807,951	\$544.64
<i>13</i>	Site Development			Part of Kennedy P	laza
14					
15	Direct Trade Cost SubTotal			\$6,807,951	\$544.64
16					
<i>17</i>	Pricing Contingency	15.00%	\$6,807,951	\$1,021,193	\$81.70
18					
19	Direct Trade Cost Total			\$7,829,144	\$1.15
20					
21	General Conditions	5.25%	\$7,829,144	\$411,030	\$32.88
<i>22</i>	General Requirements	1.50%	\$8,240,174	\$123,603	\$9.89
<i>23</i>	Insurance	0.65%	\$8,363,776	\$54,365	\$4.35
24	Bonds	0.00%	\$8,418,141	\$0	\$0.00
<i>25</i>	Permits	3.00%	\$8,418,141	\$252,544	\$20.20
26	Fee	0.00%	\$8,670,685	\$0	\$0.00
<i>27</i>					
<i>28</i>	Estimated Construction Cost Total			\$8,670,685	\$693.65
<i>29</i>					
<i>30</i>					
<i>31</i>					
<i>32</i>					
<i>33</i>					
<i>34</i>					



Providence, RI 12,500 GSF

<u>DIRECT COST SUMMARY - NEW ELEVATED CROSSING PLATFORM</u>

	<u>ELEMENT</u>	<u>TOTAL</u>	COST/SF
10			
11	A10 FOUNDATIONS	\$0	\$0.00
<i>12</i>			
<i>13</i>	A20 BASEMENT	\$0	\$0.00
14			
15	B10 STRUCTURE	\$4,969,721	\$397.58
16			
<i>17</i>	B20 EXTERIOR CLOSURE	\$0	\$0.00
18			
19	B30 ROOFING	\$0	\$0.00
20			
21	C20 STAIRCASES	\$345,000	\$27.60
<i>22</i>			
<i>23</i>	D10 CONVEYING SYSTEMS	\$782,000	\$62.56
24			
<i>25</i>	E10 EQUIPMENT	\$100,000	\$8.00
<i>26</i>			
<i>27</i>	G20 SITE IMPROVEMENTS	\$611,230	\$48.90
<i>28</i>			
<i>29</i>	_		
<i>30</i>	TOTAL	<u>\$6,807,951</u>	<u>\$544.64</u>
<i>31</i>			
<i>32</i>			



Providence, RI 12,500 GSF

DIRECT COST SUMMARY - NEW ELEVATED CROSSING PLATFORM

	<u>DIV.NO.</u>	<u>ELEMENTS</u>	_TOTAL
11	A10	FOUNDATIONS	
12		Foundations	\$0
13		FOUNDATIONS TOTAL	\$0
14			
15			
16	A20	BASEMENT CONSTRUCTION	\$0
<i>17</i>			
18			
19	B10	STRUCTURE	
20		Upper Floor Construction	\$4,969,721
21		Roof Construction	\$0
<i>22</i>		STRUCTURE TOTAL	\$4,969,721
<i>23</i>			
24			
<i>25</i>	B20	EXTERIOR CLOSURE	
<i>26</i>		Exterior walls	\$0
<i>27</i>		Exterior windows	\$0
<i>28</i>		Exterior Doors	\$0
<i>29</i>		EXTERIOR CLOSURE TOTAL	\$0
<i>30</i>			
<i>31</i>			
<i>32</i>	B30	ROOFING	
<i>33</i>		Roof Coverings	\$0
<i>34</i>		ROOFING TOTAL	\$0
<i>35</i>			
<i>36</i>			
<i>37</i>	C20	STAIRS	
<i>38</i>		Stairs	\$345,000
<i>39</i>		STAIRS TOTAL	\$345,000
40			
41			
<i>42</i>	D10	CONVEYING SYSTEM	
<i>43</i>		Elevators	\$782,000
44		CONVEYING SYSTEM TOTAL	\$782,000
<i>45</i>			
46	E10	EQUIPMENT	
47		Institutional Equipment	\$100,000
48		EQUIPMENT TOTAL	\$100,000
PUV	Budget 30 M	Iatrix 11 June 2021	Summary Elevated Xing Platform

PUV Budget 30 Matrix 11 June 2021 Printed 6/11/2021



Providence, RI 12,500 GSF

DIRECT COST SUMMARY - NEW ELEVATED CROSSING PLATFORM

	DIV.NO.	<u>ELEMENTS</u>	<u>TOTAL</u>
40			
49			
50			
51	F10	SPECIAL CONSTRUCTION	
<i>52</i>		Special construction	\$0
<i>53</i>		SPECIAL CONSTRUCTION TOTAL	\$0
54			
<i>55</i>	G20	SITE IMPROVEMENTS	
56		Site Development	\$611,230
<i>57</i>		SITE IMPROVEMENTS TOTAL	\$611,230
58			
59		_	
60	BUILDING	G TOTAL TRADE CONSTRUCTION COST	\$6,807,951
61			



Providence, RI 12,500 GSF

	DESCRIPTION	QUANTITY 1	<u>UNIT</u>	RATE/UNIT	TOTAL
11	A10 FOUNDATIONS				
12					
<i>13</i>	A1010 FOUNDATIONS				
14	Existing foundations				
15	A1010 FOUNDATIONS TOTAL				\$0
16					
<i>17</i>	A10 FOUNDATIONS TOTAL			<u> </u>	\$0
18					
19					
20	A20 BASEMENT				
21					
<i>22</i>	No anticipated work				
<i>23</i>					
24	A20 BASEMENT TOTAL			_	\$0
25					
26	D4.0 00000000000000000000000000000000000				
27	B10 STRUCTURE				
28	D4 04 0 UDDED EL OOD CONCEDUCTION				
29 30	B1010 UPPER FLOOR CONSTRUCTION				
30 31	Concrete	12 500	CE		
31 32	Slab topping Concrete; material	<i>12,500</i> 463.0	SF CY	\$150.00	\$69,444
33	Concrete; material Concrete; place	463.0	CY	\$100.00	\$46,296
34	Reinforcement	115,741		\$1.15	\$133,102
3 5	Rebar at corners and openings	231,481		\$1.15 \$1.15	\$266,204
<i>36</i>	Concrete; place & finish	12,500	SF	\$2.85	\$35,625
<i>37</i>	donerete, place a milan	12,300	J1	Ψ2.05	Ψ55,025
38	Steel Framing	810	TNS		
39	Brace beams	313.0		\$3,700.00	\$1,158,100
40	W-shapes >100#/lf		TNS	\$4,200.00	\$655,200
41	WT-shapes	63.0	TNS	\$4,100.00	\$258,300
<i>42</i>	HSS-shapes	59.0	TNS	\$4,150.00	\$244,850
<i>43</i>	HSS columns	94.0	TNS	\$4,150.00	\$390,100
44	HSS brace frames	125.0	TNS	\$4,300.00	\$537,500
45	Plates, bent plates and angles	1	LS	\$15,000.00	\$15,000
46	Connections	1	LS	\$10,000.00	\$10,000
<i>47</i>	Decking	12,500	SF	\$65.00	\$812,500
48					



Providence, RI 12,500 GSF

	DESCRIPTION	QUANTITY	<u>UNIT</u>	RATE/UNIT	TOTAL
49	Ramp	1	LS	\$150,000.00	\$150,000
50					
51	Misc. Metals				
<i>52</i>	Misc. metals	12,500	SF	\$15.00	\$187,500
<i>53</i>					
54	B1010 UPPER FLOOR CONSTRUCTION TOTAL				\$4,969,721
<i>55</i>					
56	B1020 ROOF CONSTRUCTION				
<i>57</i>	Structural steel				Included
58					
59	Mechanical roof top equipment				
60	Roof screen, galv, assume 13' high; HSS shapes				NIC
61	B1020 ROOF CONSTRUCTION TOTAL				\$0
<i>62</i>					
<i>63</i>	B10 STRUCTURE TOTAL				\$4,969,721
64					
65					
66	B20 EXTERIOR CLOSURE				NIC
67					
<i>68</i>	B2010 EXTERIOR WALLS				NIC
<i>69</i>	No anticipated work				
70	B2010 EXTERIOR WALLS TOTAL				\$0
<i>71</i>					
<i>72</i>	B2020 EXTERIOR WINDOWS				
<i>73</i>	No anticipated work				
74	B2020 EXTERIOR WINDOWS TOTAL				\$0
<i>75</i>					
76	B2030 EXTERIOR DOORS				
<i>77</i>	No anticipated work				
78	B2030 EXTERIOR DOORS TOTAL				*************************************
<i>7</i> 9					
80	B20 EXTERIOR CLOSURE TOTAL				\$0
81					
<i>82</i>					
<i>83</i>	B30 ROOFING				
84					
85	B3010 ROOF COVERINGS				
86	No anticipated work				



Providence, RI 12,500 GSF

	<u>DESCRIPTION</u>	QUANTITY	<u>UNIT</u>	RATE/UNIT	TOTAL
<i>87</i>	B3010 ROOF COVERINGS TOTAL			-	\$0
88				_	
89	B30 ROOFING TOTAL			=	\$0
90					
91	000 0TAY 010TO				
92	C20 STAIRCASES				
93	C2040 CTAIDCACEC				
94 95	C2010 STAIRCASES				
95 96	Stairs Stairs	2	FLT	\$125,000.00	\$250,000
90 97	Concrete to metal pan stairs		FLT	\$5,000.00	\$10,000
98	Concrete to metal pair stairs	2	гы	φ3,000.00	φ10,000
99	Stair finishes				
100	Railings	1	LS	\$85,000.00	\$85,000
101	C2010 STAIRCASES TOTAL	_	20	_	\$345,000
102					, = -, = -
<i>103</i>	TOTAL C20 STAIRCASES			_	\$345,000
<i>104</i>				=	
<i>105</i>					
<i>106</i>	D10 CONVEYING SYSTEMS				
<i>107</i>					
<i>108</i>	D1010 CONVEYING SYSTEMS				
109	Elevators	2	EA	\$125,000.00	\$250,000
<i>110</i>	Elevator pit ladder	2	EA	\$1,000.00	\$2,000
111	Sill angles	350	LF	\$1,500.00	\$525,000
112	Hoist beam	1	EA	\$5,000.00	\$5,000
113	D1010 CONVEYING SYSTEMS TOTAL				\$782,000
114	MOMAN CHEMPIN DATA CONTINUE CHEMPING			_	φ π οο οοο
	TOTAL SYSTEM D10 CONVEYING SYSTEMS			=	\$782,000
116 117					
117	E10 EQUIPMENT				
119	ETO EQUIT MENT				
120	E1020 INSTITUTIONAL EQUIPMENT				
121	Allow for equipment	1	AL	\$100,000.00	\$100,000
122	E1020 INSTITUTIONAL EQUIPMENT TOTAL	•		_	\$100,000
123	(, 12,000
	E10 EQUIPMENT TOTAL			_	\$100,000
				=	·



Providence, RI 12,500 GSF

	DESCRIPTION	QUANTITY	<u>UNIT</u>	RATE/UNIT	TOTAL
125					
126					
127	F10 SPECIAL CONSTRUCTION				
128					
129	F1010 SPECIAL CONSTRUCTION				
<i>130</i>	No work in this section				\$0
<i>131</i>	F1010 SPECIAL CONSTRUCTION TOTAL			•	\$0
<i>132</i>					
<i>133</i>	TOTAL SYSTEM F10 SPECIAL CONSTRUCTION				\$0
<i>134</i>					
<i>135</i>					
<i>136</i>	TOTAL SYSTEM F20 DEMOLITION			:	\$0
<i>137</i>					
138					
139	G20 SITE IMPROVEMENTS				
140					
141	G2010 SITE DEVELOPMENT				
142	Allow for miscellaneous furnishings	1	LS	\$500,000.00	\$500,000
143	Planting	3,178	SF	\$35.00	\$111,230
144	G2010 SITE DEVELOPMENT TOTAL				\$611,230
145	MOMAL OVERTIME DATE OFFICIAL CONCERNATION				
146	TOTAL SYSTEM F10 SPECIAL CONSTRUCTION			:	\$611,230
147					
148 149					
149 150			ГОТАІ	TO SUMMARY	¢6 907 0F1
150 151			IUIAL	I O SUMMAKY	\$6,807,951
131					



Providence, RI 1,950 GSF

MAIN SUMMARY - WATER PARK BASIN BRIDGE EXPANSION

	<u>DESCRIPTION</u>			<u>TOTAL</u>	COST/SF
11	Direct Trade Costs With Site				
<i>12</i>	Expansion	1,950	GSF	\$2,102,210	\$1,078.06
<i>13</i>	Site Development			Part of Kennedy F	Plaza
14					
15	Direct Trade Cost SubTotal			\$2,102,210	\$1,078.06
16					
<i>17</i>	Pricing Contingency	15.00%	\$2,102,210	\$315,332	\$161.71
18					
19	Direct Trade Cost Total			\$2,417,542	\$1.15
20					
21	General Conditions	5.25%	\$2,417,542	\$126,921	\$65.09
<i>22</i>	General Requirements	1.50%	\$2,544,462	\$38,167	\$19.57
<i>23</i>	Insurance	0.65%	\$2,582,629	\$16,787	\$8.61
24	Bonds	0.00%	\$2,599,416	\$0	\$0.00
<i>25</i>	Permits	3.00%	\$2,599,416	\$77,982	\$39.99
<i>26</i>	Fee	0.00%	\$2,677,399	\$0	\$0.00
<i>27</i>					
<i>28</i>	Estimated Construction Cost Total			\$2,677,399	\$1,373.03
<i>29</i>					
<i>30</i>					
<i>31</i>					
<i>32</i>					
<i>33</i>					
<i>34</i>					



Providence Unified Vision Big Shade

Providence, RI 1,950 GSF

<u>DIRECT COST SUMMARY - WATER PARK BASIN BRIDGE EXPANSION</u>

	<u>ELEMENT</u>	<u>TOTAL</u>	COST/SF
10			
11	A10 FOUNDATIONS	\$896,655	\$459.82
<i>12</i>			
13	A20 BASEMENT	\$0	\$0.00
14	D4.0 (FFD) (FFD)	***	h
15	B10 STRUCTURE	\$1,205,555	\$618.23
16		.	40.00
17	B20 EXTERIOR CLOSURE	\$0	\$0.00
18		.	40.00
19	B30 ROOFING	\$0	\$0.00
20			
21	momay.	фо. 4.00. 0.4.0	#4.0 = 0.06
22	TOTAL	<u>\$2,102,210</u>	<u>\$1,078.06</u>
23			
24			



Providence, RI 1,950 GSF

<u>DIRECT COST SUMMARY - WATER PARK BASIN BRIDGE EXPANSION</u>

	DIV.NO.	<u>ELEMENTS</u>	<u>TOTAL</u>
11	A10	FOUNDATIONS	
12		Foundations	\$896,655
<i>13</i>		FOUNDATIONS TOTAL	\$896,655
14			
15			
16	A20	BASEMENT CONSTRUCTION	\$0
<i>17</i>			
18			
19	B10	STRUCTURE	
20		Upper Floor Construction	\$1,205,555
21		Roof Construction	\$0
<i>22</i>		STRUCTURE TOTAL	\$1,205,555
<i>23</i>			
24			
<i>25</i>	B20	EXTERIOR CLOSURE	
<i>26</i>		Exterior walls	\$0
<i>27</i>		Exterior windows	\$0
<i>28</i>		Exterior Doors	\$0
29		EXTERIOR CLOSURE TOTAL	\$0
30			
31	Dao	DOORING	
32	B30	ROOFING	d O
33		Roof Coverings	\$0
34		ROOFING TOTAL	\$0
<i>35</i>			
36 37	E10	EQUIDMENT	
38	E10	EQUIPMENT Institutional Equipment	\$500,000
<i>39</i>		EQUIPMENT TOTAL	\$500,000 \$500,000
40		EQUIFMENT TOTAL	\$300,000
41			
42	F10	SPECIAL CONSTRUCTION	
43	110	Special construction	\$0
44		SPECIAL CONSTRUCTION TOTAL	\$0
45			7.0
46			
47	BUILDIN	G TOTAL TRADE CONSTRUCTION COST	\$2,602,210
48			

Providence, RI 1,950 GSF

	DESCRIPTION	QUANTITY UNIT		RATE/UNIT	<u>TOTAL</u>
11	A10 FOUNDATIONS				
12					
<i>13</i>	A1010 FOUNDATIONS				
14	Earthwork				
15	Slab-on-Grade platform preparation in Sitework Tab	975	SF		
16	Continuous footing w/foundation wall	196	LF		
<i>17</i>	Excavation	541.7	CY	\$12.00	See below
18	Backfill from import	261.7	CY	\$20.00	See below
19	Spread footings	4	EA		
20	Excavation	11.0	CY	\$12.00	See below
21	Backfill from import		CY	\$20.00	See below
<i>22</i>	Cast to off-site waste	291	CY	\$22.00	See below
<i>23</i>	Grade & compact	975	SF	\$1.00	See below
24	12" base course sand & gravel below slab on grade	36.1	CY	\$25.00	See below
25					
<i>26</i>	Building over excavation:				
<i>27</i>	Over-excavation to remove topsoil	36	CY	\$8.00	\$289
<i>28</i>	50% Over-excavation Reused (stockpile on site)	18	CY	\$7.50	\$135
29	Dispose materials	18	CY	\$18.00	\$325
30	Structural fill	18	CY	\$28.00	\$506
31					
32	Concrete		E 4		
33	Footings	4	EA	ф1 Г О ОО	#42.000
34	Concrete; material	280.0	CY	\$150.00	\$42,000
35	Concrete; place	280.0	CY	\$100.00	\$28,000
36	Reinforcement (150#/cy)	42,000	LB	\$1.15	\$48,300
37	Formwork	1	LS	\$3,500.00	\$3,500
38	Piers	4	EA	44 = 0.00	* 4 2 2 2 2
39	Concrete; material	280.0	CY	\$150.00	\$42,000
40	Concrete; place	280.0	CY	\$100.00	\$28,000
41	Reinforcement (150#/cy)	42,000	LB	\$1.15	\$48,300
<i>42</i>	Formwork	1	LS	\$25,000.00	\$25,000
<i>43</i>	Anchor bolts	1	LS	\$8,000.00	\$8,000
44	Miscellaneous concrete	1	LS	\$30,000.00	\$30,000
<i>45</i>					
46	Special Foundation Conditions				
47	Piles	1	AL	\$500,000.00	\$500,000
<i>48</i>	Soil improvements	975	SF	\$28.00	\$27,300



Providence, RI 1,950 GSF

	DESCRIPTION	QUANTITY UNIT		RATE/UNIT	TOTAL
49	Dewatering during excavation	1	LS	\$65,000.00	\$65,000
50	A1010 FOUNDATIONS TOTAL			_	\$896,655
51					
<i>52</i>	A10 FOUNDATIONS TOTAL			_	\$896,655
53				_	
54					
<i>55</i>	A20 BASEMENT				
56					
<i>57</i>	No anticipated work				
58					
59	TOTAL SYSTEM A20 BASEMENT			_	\$0
60					
61					
<i>62</i>	B10 STRUCTURE				
<i>63</i>					
64	B1010 UPPER FLOOR CONSTRUCTION				
65	Concrete				
66	Slab topping	1,950	SF	44 = 0 0 0	440.000
67	Concrete; material	72.2	CY	\$150.00	\$10,833
68	Concrete; place	72.2	CY	\$100.00	\$7,222
69	Reinforcement	18,056	LBS	\$1.15	\$20,764
70	Rebar at corners and openings	36,111	LBS	\$1.15	\$41,528
71	Concrete; place & finish	1,950	SF	\$2.85	\$5,558
72 73	Ctaal Engmina	168	TNS		
73 74	Steel Framing Brace beams	88.0	TNS	\$5,500.00	\$484,000
7 4 75	W-shapes >100#/lf	29.0	TNS	\$6,000.00	\$174,000
7 <i>5</i>	WT-shapes	10.0		\$5,900.00	\$59,000
77	HSS-shapes		TNS	\$5,950.00	\$35,700
<i>78</i>	HSS columns	20.0		\$5,950.00	\$119,000
<i>79</i>	HSS brace frames	15.0		\$6,100.00	\$91,500
80	Plates, bent plates and angles	1	LS	\$10,000.00	\$10,000
81	Connections	1	LS	\$8,000.00	\$8,000
82	Repair/replace deck	1,950	SF	\$65.00	\$126,750
83	- r	_,,,,,	~-	+ 55.00	, 3,, 00
84	Misc. Metals				
85	Misc. metals	1,950	SF	\$6.00	\$11,700
86					



Providence, RI 1,950 GSF

	DESCRIPTION	QUANTITY UNIT	RATE/UNIT	TOTAL
<i>87</i>	B1010 UPPER FLOOR CONSTRUCTION TOTAL			\$1,205,555
88				
89	B1020 ROOF CONSTRUCTION			
90	Structural steel			Included
91				
92	Mechanical roof top equipment			
93	Roof screen, galv, assume 13' high; HSS shapes			NIC
94	B1020 ROOF CONSTRUCTION TOTAL			<u>\$0</u>
95				
96	TOTAL SYSTEM B10 SUPERSTRUCTURE			\$1,205,555
97				
98				
99	B20 EXTERIOR CLOSURE			NIC
100				
101	B2010 EXTERIOR WALLS			NIC
102	No anticipated work			
103	B2010 EXTERIOR WALLS TOTAL			\$0
104				
105	B2020 EXTERIOR WINDOWS			
<i>106</i>	No anticipated work			
<i>107</i>	B2020 EXTERIOR WINDOWS TOTAL			\$0
108				
<i>109</i>	B2030 EXTERIOR DOORS			
110	No anticipated work			
	B2030 EXTERIOR DOORS TOTAL			\$0
<i>112</i>				
	TOTAL SYSTEM B20 EXTERIOR CLOSURE			<u>\$0</u>
114				
115				
	B30 ROOFING			
117				
	B3010 ROOF COVERINGS			
	No anticipated work			
	B3010 ROOF COVERINGS TOTAL			\$0
121				
	TOTAL SYSTEM B30 ROOFING			<u>\$0</u>
123				
<i>124</i>				



Providence, RI 1,950 GSF

	<u>DESCRIPTION</u>	QUANTITY UNIT	RATE/UNIT	TOTAL
125 126	E10 EQUIPMENT			
127 128	E1020 INSTITUTIONAL EQUIPMENT Allow for equipment E1020 INSTITUTIONAL EQUIPMENT TOTAL	1 AL	\$500,000.00	\$500,000 \$500,000
132 133	TOTAL SYSTEM E10 FITTINGS & EQUIPMENT		- :	\$500,000
135	F10 SPECIAL CONSTRUCTION F1010 SPECIAL CONSTRUCTION			
_	No work in this section F1010 SPECIAL CONSTRUCTION TOTAL			\$0 \$0
140 141 142	TOTAL SYSTEM F10 SPECIAL CONSTRUCTION		:	\$0
143 144 145	TOTAL SYSTEM F20 DEMOLITION	тота	TO CHMMADY	\$0
145 146		IUIAI	TO SUMMARY	\$2,002,210



Providence, RI

MAIN SUMMARY - WATER FEATURE AT THE WATERPARK BASIN

<u>DESCRIPTION</u> <u>TOTAL</u>

1 Direct Trade Costs With Site

	Site Development Direct Trade Cost SubTotal		-	\$5,050,000 \$5,050,000
	Pricing Contingency Trade Cost SubTotal	15.00%	\$5,050,000	\$757,500 \$5,807,500
6	General Conditions	5.75%	\$5,807,500	\$333,931
7	General Requirements	5.25%	\$6,141,431	\$322,425
8	Insurance	1.50%	\$6,463,856	\$96,958
9	Bond	0.65%	\$6,560,814	\$42,645
10	Permit	0.00%	\$6,603,460	\$0
11	Fee	3.00%	\$6,603,460	\$198,104
12	Estimated Construction Cost Total		-	\$6,801,563



Providence, RI

DIRECT COST SUMMARY - WATER FEATURE AT WATER[ARL BASIN

### 120 F20 FACILITY REMEDIATION		<u>ELEMENT</u>	<u>TOTAL</u>
12 F30 DEMOLITION \$0 13 G10 SITE PREPARATION \$550,000 15 \$4,500,000 16 G20 SITE IMPROVEMENTS \$0 18 G40 SITE ELECTRICAL UTILITIES \$0 19 TOTAL \$5,050,000 22 \$5,050,000 \$5,050,000 22 \$2 \$2 26 \$2 \$2 27 \$2 \$2 28 \$2 \$3 30 \$31 \$3 31 \$3 \$3 34 \$35 \$3 36 \$3 \$3 37 \$3 \$3 38 \$3 \$3 39 \$3 \$4		F20 FACILITY REMEDIATION	\$0
14 GIO SITE PREPARATION \$550,000 15 \$4,500,000 17 \$6 18 G40 SITE ELECTRICAL UTILITIES \$0 20 TOTAL \$5,050,000 22 3 SECTION STANDARD \$5,050,000 22 4 SECTION STANDARD \$5,050,000 23 5 SECTION STANDARD \$5,050,000 24 5 SECTION STANDARD \$5,050,000 25 5 SECTION STANDARD \$5,050,000 26 5 SECTION STANDARD \$5,050,000 27 5 SECTION STANDARD \$5,050,000 28 5 SECTION STANDARD \$5,050,000 29 5 SECTION STANDARD \$5,050,000 20 6 SECTION STANDARD \$5,050,000 22 7 SECTION STANDARD \$5,050,000 23 8 SECTION STANDARD \$5,050,000 24 8 SECTION STANDARD \$5,050,000 25 8 SECTION STANDARD \$5,050,000 26 8 SECTION STANDARD \$5,050,000 27 9 SECTION STANDARD \$5,050,000 28 9 SECTION STANDARD \$5,050,000 29 9 SECTION STANDARD \$5,050,000 20 9 SECTION STANDARD \$5,050,000 20 9 SECTION STANDARD \$5,050,000 20 9 SECTION STANDARD	12	F30 DEMOLITION	\$0
16 G20 SITE IMPROVEMENTS \$4,500,000 17 \$0 18 G40 SITE ELECTRICAL UTILITIES \$0 19 \$0 20 \$5,050,000 22 \$5,050,000 23 \$5,050,000 24 \$5,050,000 25 \$6 26 \$27 28 \$29 30 \$30 31 \$30 32 \$33 33 \$34 35 \$37 36 \$37 37 \$38 39 \$4,500,000		G10 SITE PREPARATION	\$550,000
17 18 G40 SITE ELECTRICAL UTILITIES \$0 19 20 21 TOTAL \$5.050.000 22 23 24 25 26 27 28 29 30 31 31 32 33 34 35 36 37 38 39		G20 SITE IMPROVEMENTS	\$4,500,000
19 20 21 TOTAL \$5,050,000 22 23 24 25 26 27 28 29 30 31 31 32 33 34 35 36 37 38 39	<i>17</i>		
21 TOTAL 22	19	040 SITE ELECTRICAL OTTETTES	ΨU
23 24 25 26 27 28 29 30 31 31 32 33 34 35 36 37 38 39	21	TOTAL	<u>\$5,050,000</u>
25 26 27 28 29 30 31 32 33 34 35 36 37 38 39	<i>23</i>		
27 28 29 30 31 32 33 34 35 36 37 38 39	25		
29 30 31 32 33 34 35 36 37 38 39			
31 32 33 34 35 36 37 38 39			
33 34 35 36 37 38 39			
35 36 37 38 39			
36 37 38 39			
38 39	<i>36</i>		
	<i>38</i>		
41	40		
42 43	42		



Providence, RI

SITEWORK DETAILS - WATER FEATURE AT MIST RING

	<u>DESCRIPTION</u>	QUANTITY	<u>UNIT</u>	<u>UNIT COST</u>	<u>TOTAL</u>
10	F20 FACILITY REMEDIATION				
11					
<i>12</i>	F2010 Hazardous Materials Remediation				
13	Hazmat abatement/Soil Remediation				NIC
14	F20 FACILITY REMEDIATION TOTAL				\$0
15					
<i>16</i>					
<i>17</i>	F30 DEMOLITION				
18					
19	F3010 Demolition				
20	Demolition in Demo Estimate				NIC
21	F30 DEMOLITION TOTAL				\$0
<i>22</i>					
<i>23</i>					
24	G10 SITE PREPARATION				
25					
26	G1010 Site Clearing				
27	Site clearing				W/General Con
28	Construction fence, install, maintain, remove & reinstall;				W/General Con
29	Double construction gate				W/General Con
30	Temporary construction entrance				W/General Con
31	Contractor parking				W/General Con
32	Contractor staging and laydown area				Incl w/Kennedy
33	Temp signs				Incl w/Kennedy
34 35	Wash down/re-fueling/parking allowance				Incl w/Kennedy
36	Devetoring for citaveork executation, allow				Ind w/Vonnody
37	Dewatering for sitework excavation; allow				Incl w/Kennedy
<i>38</i>	Temporary seed cover				Incl w/Kennedy
<i>39</i>	Compost sock				Incl w/Kennedy
40	Compost sock				mer w/ Kennedy
41	G1020 Site Demolition and Relocation				
42	02 41 00 Demolition				
43	Protection of existing	1	AL	\$50,000.00	\$50,000
44	Protect drain and sewer line	_		+50,000.00	Incl above
45	Protect tree				Incl above
46					
47	Remove & dispose				Incl wi/Demo
48					,
49	G1020.01 Building Demolition				
50	02 30 00 Building Demolition				
51	Building demoltion				Incl wi/Demo
<i>52</i>					



Providence, RI

SITEWORK DETAILS - WATER FEATURE AT MIST RING

	<u>DESCRIPTION</u>	QUANTITY	<u>UNIT</u>	<u>UNIT COST</u>	<u>TOTAL</u>
53	G1030 Site Earthwork				
54	Soils Characterization and Disposal; allowance				Incl w/Kennedy
<i>55</i>	Rock excavation				NIC
56	Rough grading				Incl w/Kennedy
<i>57</i>	Fine grading				Incl w/Kennedy
58	Cut and fill				Incl w/Kennedy
59	Gravel base				Incl w/Kennedy
<i>60</i>	Allow for soil retention as needed	1	AL	\$500,000.00	\$500,000
61					
62	G10 SITE PREPARATION TOTAL				\$550,000
<i>63</i>					
64					
65	G20 SITE IMPROVEMENTS				
<i>66</i>					
<i>67</i>	G2040 Site Development				
68 69	For interim level budgeting purposes, here is where our current conce engineering, field services to test/adjust and get the feature up and rur fountain equipment (controls, nozzles, fog manifolds, lights, filtration, installation. We have not figured a cost for the fog ring or pole structur supplied item yet.	nning after installat pumps/compressor	ion by the s etc.) Th	e contractor, choreograph ese figures do not includ	ny and all specialized e construction and
70	Waterplace Park \$4m WET	1	AL	\$4,000,000.00	\$4,000,000
71	Miscellaneous improvements	1	AL	\$500,000.00	\$500,000
<i>72</i>	G20 SITE IMPROVEMENTS TOTAL				\$4,500,000
<i>73</i>					
74					
<i>75</i>	G40 SITE ELECTRICAL UTILITIES				
76					
77	G4010 Site Electrical Utilities				
<i>78</i>	Power	1	al	\$600,000.00	Separate Phase
<i>7</i> 9					
80	G40 SITE ELECTRICAL UTILITIES TOTAL				\$0
81 82		то:	гаі сіт	EWORK SUMMARY	<u> </u>
04		10	1 AL 31 I	EWUKK SUMMAKY	\$5,050,000



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Providence Unified Vision Digital Pilons

Providence, RI

MAIN SUMMARY - DIGITAL PILONS

<u>DESCRIPTION</u> <u>TOTAL</u>

1 Direct Trade Costs With Site

	Site Development Direct Trade Cost SubTotal			\$2,600,000 \$2,600,000
	Pricing Contingency Trade Cost SubTotal	15.00%	\$2,600,000	\$390,000 \$2,990,000
	General Conditions	5.75%	\$2,990,000	\$171,925
	General Requirements Insurance	5.25% 1.50%	\$3,161,925 \$3,327,926	\$166,001 \$49,919
9 10	Bond Permit	0.65% 0.00%	\$3,377,845 \$3,399,801	\$21,956 \$0
11	Fee	3.00%	\$3,399,801	\$101,994
<i>12</i>	Estimated Construction Cost Total			\$3,501,795



Providence Unified Vision Digital Pilons

Providence, RI

DIRECT COST SUMMARY - DIGITAL PILONS

	<u>ELEMENT</u>	_TOTAL
	F20 FACILITY REMEDIATION	\$0
	F30 DEMOLITION	\$0
	G10 SITE PREPARATION	\$275,000
	G20 SITE IMPROVEMENTS	\$1,625,000
17 18 19	G40 SITE ELECTRICAL UTILITIES	\$700,000
20 21	TOTAL	\$2,600,000
21 22 23	TOTAL	<u>\$2,600,000</u>
24 25		
26 27		
28 29		
30 31		
32 33		
34 35		
36 37		
38 39		
40 41		
<i>42 43</i>		



Providence Unified Vision Digital Pilons

Providence, RI

SITEWORK DETAILS - DIGITAL PYLONS

	<u>DESCRIPTION</u>	QUANTITY	<u>UNIT</u>	<u>UNIT COST</u>	<u>TOTAL</u>
10	F20 FACILITY REMEDIATION				
11	T0040 W				
12	F2010 Hazardous Materials Remediation				a
13	Hazmat abatement/Soil Remediation				NIC
14	F20 FACILITY REMEDIATION TOTAL				\$0
15					
16	FOO DEMOLITION				
17	F30 DEMOLITION				
18	F2040 Domolikion				
19	F3010 Demolition				NIC
20	Demolition in Demo Estimate				NIC
21	F30 DEMOLITION TOTAL				\$0
22 23					
23 24	G10 SITE PREPARATION				
25 25	GIU SITE FREFARATION				
26	G1010 Site Clearing				
27	Site clearing				W/General Con
28	Construction fence, install, maintain, remove & reinstall;				W/General Con
29	Double construction gate				W/General Con
30	Temporary construction entrance				W/General Con
31	Contractor parking				W/General Con
32	Contractor staging and laydown area	1	LS	\$5,000.00	\$5,000
33	Temp signs	1	LS	\$5,000.00	\$5,000
34	Wash down/re-fueling/parking allowance	_		40,000.00	W/General Con
35					,
36	Dewatering for sitework excavation; allow				W/General Con
<i>37</i>	,				,
<i>38</i>	Temporary seed cover				W/General Con
<i>39</i>	Compost sock				W/General Con
40					
41	G1020 Site Demolition and Relocation				
<i>42</i>	02 41 00 Demolition				
<i>43</i>	Saw cut existing pavement	1	LS	\$35,000.00	\$35,000
44					
45	Protection of existing	1	AL	\$25,000.00	\$25,000
46	Protect drain and sewer line	500	LF		Incl above
<i>47</i>	Protect tree	23	EA		Incl above
48					
49	Remove & dispose	1	AL	\$15,000.00	\$15,000
50	Remove drain line			- u -	Incl above
	PUV Budget 30 Matrix 11 June 2021 Printed 6/11/2021			Detailed Estimate l Page	Digital Pilon e 204 of 231

Providence Unified Vision Digital Pilons

Providence, RI

SITEWORK DETAILS - DIGITAL PYLONS

	<u>DESCRIPTION</u>	<u>QUANTITY</u>	<u>UNIT</u>	<u>UNIT COST</u>	<u>TOTAL</u>
51 52 53 54 55 56 57 58	Remove control valves Remove surface edging Remove sewer line Remove concrete pad Remove tree Silt sock G1020.01 Building Demolition				Incl above Incl above Incl above Incl above Incl above Incl above
59 60 61	02 30 00 Building Demolition Building demolition				See Above
<i>62</i>	G1030 Site Earthwork				
<i>63</i>	Soils Characterization and Disposal; allowance	1	AL	\$50,000.00	\$50,000
<i>64</i>	Rock excavation				NIC
65	Rough grading	10,000	SY	\$1.50	\$15,000
66	Fine grading	50,000	SF	\$1.00	\$50,000
<i>67</i>	Cut and fill	5,000	CY	\$9.00	\$45,000
<i>68</i>	Gravel base	1	LS	\$15,000.00	\$15,000
69	Allow for miscellaneous repairs during construction	1	LS	\$15,000.00	\$15,000
70				_	
71	G10 SITE PREPARATION TOTAL				\$275,000
72					
73					
<i>74</i>	G20 SITE IMPROVEMENTS				
75 76	C2040 Site Development				
76	G2040 Site Development	1	ΛΙ	¢1	¢1
77 70	Digital Pylons Main Dignlay	1	AL EA	\$1,500,000.00	\$1,500,000
78 79	Main Display Towers	1 9	EA EA		
80	Media Strip	1	EA		
81	Requires fabrication, systems integration of display and	1	LS		
	headend technology, content management system (CMS) playback and scheduling software and content templates. CMS includes open application programming interface (API) for community members to code content.	•	10		
82 83	Downtown DVD Web Precence/Unland Portal machile	1	LS	\$50,000.00	\$50,000
υS	Downtown PVD Web Presence/Upload Portal – mobile website, interface for community members to contribute content.	1	LЭ	φυ υ,υυυ.υ υ	430,000
84					



Providence Unified Vision Digital Pilons

Providence, RI

<u>SITEWORK DETAILS - DIGITAL PYLONS</u>

	<u>DESCRIPTION</u>	QUANTITY	<u>UNIT</u>	<u>UNIT COST</u>	<u>TOTAL</u>
85	Augmented Reality (AR) Gallery App – iOS and Android compatible app to receive, locate and view AR media elements on site. Include admin interface for curating/gatekeeping content.	1	LS	\$75,000.00	\$75,000
86					
87					
88 89	G20 SITE IMPROVEMENTS TOTAL			-	\$1,625,000
90	G2U SITE IMPROVEMENTS TOTAL				\$1,025,000
91					
92	G40 SITE ELECTRICAL UTILITIES				
93					
94	G4010 Site Electrical Utilities				
95	Telecommunications and Low Voltage Infrastructure	1	LS	\$400,000.00	\$400,000
96					
97	Power and data	1	LS	\$300,000.00	\$300,000
98				_	_
99	G40 SITE ELECTRICAL UTILITIES TOTAL				\$700,000
100				_	
101	TOTAL SITEWORK SUMMARY			=	\$2,600,000
<i>102</i>					



Providence Unified Vision Demolition

Providence, RI

MAIN SUMMARY - MISCELLANEOUS DEMOLITION

<u>DESCRIPTION</u> <u>TOTAL</u>

1 Direct Trade Costs With Site

	Site Development Direct Trade Cost SubTotal		_	\$328,000 \$328,000
	Pricing Contingency Trade Cost SubTotal	15.00%	\$328,000 _	\$49,200 \$377,200
6	General Conditions	5.75%	\$377,200	\$21,689
7	General Requirements	5.25%	\$398,889	\$20,942
8	Insurance	1.50%	\$419,831	\$6,297
9	Bond	0.65%	\$426,128	\$2,770
10	Permit	0.00%	\$428,898	\$0
11	Fee	3.00%	\$428,898	\$12,867
<i>12</i>	Estimated Construction Cost Total		_	\$441,765



Providence Unified Vision Demolition

Providence, RI

DIRECT COST SUMMARY - MISCELLANEOUS DEMOLTION

	<u>ELEMENT</u>	<u>TOTAL</u>
9	F20 FACILITY REMEDIATION	\$0
10 11	F30 DEMOLITION	\$153,000
12 13 14	G10 SITE PREPARATION	\$175,000
	G20 SITE IMPROVEMENTS	\$0
17 18	G30 SITE CIVIL/MECHANICAL UTILITIES	\$0
	G40 SITE ELECTRICAL UTILITIES	\$0
21 22	TOTAL	<u>\$328,000</u>
23 24	TOTAL	<u>\$328,000</u>
25 26		
27 28		
29 30		
31 32		
33 34		
35 36		
37 38		
39 40		
41 42		
43 44		



Providence Unified Vision Demolish

Providence, RI

SITEWORK DETAILS - MISCELLANEOUS DEMOLITION

	<u>DESCRIPTION</u>	QUANTITY	<u>UNIT</u>	<u>UNIT COST</u>	<u>TOTAL</u>
10	F20 FACILITY REMEDIATION				
11					
<i>12</i>	F2010 Hazardous Materials Remediation				
<i>13</i>	Hazmat abatement/Soil Remediation			_	NIC
14	F20 FACILITY REMEDIATION TOTAL				\$0
15					
16					
<i>17</i>	F30 DEMOLITION				
18					
19	F3010 Structure Demolition			.	±4 = 0.000
20	Building demolition	153,000	CF	\$1.00	\$153,000
21	F30 DEMOLITION TOTAL				\$153,000
22 23					
23 24	G10 SITE PREPARATION				
24 25	GIU SHE PREPARATION				
26	G1020 Site Demolition and Relocation				
27	02 41 00 Demolition				
28	Saw cut existing pavement	1	LS	\$15,000.00	\$15,000
29	but cut existing purement	-	Ц	Ψ13,000.00	Ψ15,000
<i>30</i>	Protection of existing	1	AL	\$25,000.00	\$25,000
31	Protect drain and sewer line		LF	. ,	Incl above
<i>32</i>	Protect tree		EA		Incl above
<i>33</i>					
<i>34</i>	G1020.01 Building Demolition				
<i>35</i>	02 30 00 Building Demolition				
<i>36</i>	Building demoltion				See Above
<i>37</i>					
<i>38</i>	G1030 Site Earthwork				
<i>39</i>	Soils Characterization and Disposal; allowance	1	AL	\$35,000.00	\$35,000
40	Gravel base	1	LS	\$25,000.00	\$25,000
41	Temporary swales w/check dams	1	AL	\$10,000.00	\$10,000
<i>42</i>	Spread loam	5,000	CY	\$11.00	\$55,000
43	Temporary parking	_			NIC
44	Allow for miscellaneous repairs during construction	1	LS	\$10,000.00	\$10,000
45	CAO CITTE DDED AD ATHON TOTAL			-	#4 55 000
46	G10 SITE PREPARATION TOTAL				\$175,000
47					
48 49	G20 SITE IMPROVEMENTS				

m

Providence Unified Vision Demolish

Providence, RI

SITEWORK DETAILS - MISCELLANEOUS DEMOLITION

	<u>DESCRIPTION</u>	<u>QUANTITY</u>	<u>UNIT</u>	<u>UNIT COST</u>	<u>TO</u>	<u>TAL</u>
51	G2020 Roadways				NIC	
<i>52</i>	Roads	41,400	SF			\$0
<i>53</i>	32 16 00 Curbs and Gutters				NIC	
54						
<i>55</i>	32 17 00 Paving Specialties					
56	Misc. marking other than above	1	LS			\$0
<i>57</i>						
58	G2030 Pedestrian Paving					
<i>59</i>	32 13 10 Rigid Paving				NIC	
60	Pavement in parks; brick	31,400				\$0
61	Playground surface	8,800	SF			\$0
62	C2040 C': D					
63	G2040 Site Development					
64	G2040.01 Fences and Gates 32 31 00 Fences and Gates					
65 66	Fences and gates	1	AL			\$0
67	rences and gates	1	AL			φU
68	G2040.02 Site and Street Furnishes					
<i>69</i>	Signage	1	EA			\$0
70	Traffic signs	1				\$ 0
71	Lighting pole	1				\$ 0
<i>72</i>	Concrete bollard	1				\$0
<i>73</i>	Miscellaneous site improvements	1				\$0
<i>74</i>						
<i>75</i>	G2050.02 Lawns and Grasses					
<i>76</i>	32 92 00 Turfs and Grasses				NIC	
<i>77</i>						
<i>78</i>	G2050.03 Trees, Plants and Ground Covers				NIC	
<i>79</i>						
80	G20 SITE IMPROVEMENTS TOTAL					\$0
81						
<i>82</i>						
<i>83</i>	G30 SITE CIVIL/MECHANICAL UTILITIES					
84	G0040 VV - VVIII-1	_				40
85	G3010 Water Utilities	1	AL			\$0
86	C2020 Carrie and Carrie and Halling	4	A T			¢ο
87	G3020 Sanitary Sewerage Utilities	1	AL			\$0
88	C2020 Storm Prainage Utilities	1	LS			¢Λ
89 90	G3030 Storm Drainage Utilities	1	L3			\$0
90 91	G3040 Gas Utilities					
71	PUV Budget 30 Matrix 11 June 2021			Detailed Es	t Demolitio	on



Providence Unified Vision Demolish

Providence, RI

SITEWORK DETAILS - MISCELLANEOUS DEMOLITION

	<u>DESCRIPTION</u>	QUANTITY	<u>UNIT</u>	<u>UNIT COST</u>	<u>TOTAL</u>	
92	33 50 00 Gas Service					
93	Connection to existing gas main				NIC	
94	Gas Line Trench				NIC	
95				_		
96	G30 SITE CIVIL/MECHANICAL UTILITIES TOTAL					\$0
97						
98						
99	G40 SITE ELECTRICAL UTILITIES					
100						
101	G4010 Site Electrical Utilities					
<i>102</i>	Site Lighting: (ALLOW)	1	AL			\$0
<i>103</i>	1" Pvc, 4#8 UG	3,500	LF			\$0
104	Site Lighting Controls	1	LS			\$0
105						
<i>106</i>	Site Utilities	1	LS			\$0
<i>107</i>				_		
<i>108</i>	G40 SITE ELECTRICAL UTILITIES TOTAL					\$0
<i>109</i>				<u>_</u>		
110		TOTA	L SITEW	ORK SUMMARY _	\$328,0	00
111						



Providence, RI 118,911 GSF

MAIN SUMMARY PHASE 1A RIVERWALK

	<u>DESCRIPTION</u>			<u>TOTAL</u>	COST/SF
1	Direct Trade Costs With Site				
	Site Development		_	\$10,806,626	\$90.88
3	Direct Trade Cost SubTotal			\$10,806,626	\$90.88
4	Pricing Contingency	15.00%	\$10,806,626	\$1,620,994	\$13.63
5	Trade Cost SubTotal		_	\$12,427,620	\$104.51
6	General Conditions	5.75%	\$12,427,620	\$714,588	\$6.01
7	General Requirements	5.25%	\$13,142,208	\$689,966	\$5.80
8	Insurance	1.50%	\$13,832,174	\$207,483	\$1.74
9	Bond	0.65%	\$14,039,657	\$91,258	\$0.77
10	Permit	0.00%	\$14,130,914	\$0	\$0.00
11	Fee	3.00%	\$14,130,914	\$423,927	\$3.57
12	Estimated Construction Cost Tot	tal	_	\$14,554,842	\$122.40



Providence, RI 118,911 GSF

DIRECT COST SUMMARY - PHASE 1A

	<u>ELEMENT</u>	<u>TOTAL</u>
11 12	F20 FACILITY REMEDIATION	\$0
13 14	F30 DEMOLITION	\$0
	G10 SITE PREPARATION	\$2,319,018
17 18	G20 SITE IMPROVEMENTS	\$5,621,282
19 20	G30 SITE CIVIL/MECHANICAL UTILITIES	\$1,402,250
21 22	G40 SITE ELECTRICAL UTILITIES	\$1,464,076
23 24	TOTAL SITEWORK	<u>\$10,806,626</u>
25 26	TOTAL STLWORK	<u>\$10,000,020</u>
27 28		
29 30		
31 32		
33 34		
35 36		
37 38		
39 40		
41 42 43		
44		
45 46		



Providence, RI 118,911 GSF

SITEWORK DETAILS - PHASE 1A

	<u>DESCRIPTION</u>	<u>QUANTITY</u>	<u>UNIT</u>	<u>UNIT COST</u>	<u>TOTAL</u>
11	F20 FACILITY REMEDIATION				
12					
13	F2010 Hazardous Materials Remediation				
14	Hazmat abatement/Soil Remediation				NIC
15	F20 FACILITY REMEDIATION TOTAL				\$0
16					
<i>17</i>					
18	F30 DEMOLITION				
19					
20	F3010 Structure Demolition				
21	Building demolition				NIC
22	F30 DEMOLITION TOTAL				\$0
23					
24	C40 CITE DDED AD ATION				
25 26	G10 SITE PREPARATION				
26 27	G1010 Site Clearing				
28	31 10 00 Site Clearing				
29	Site clearing	2 72	ACRES	\$10,000.00	\$27,300
30	Construction fence, install, maintain, remove & reinstall;	7,928	LF	\$10,000.00	\$95,136
31	Double construction gate	12	PR	\$2,500.00	\$30,000
<i>32</i>	Temporary construction entrance	10	LOC	\$7,000.00	\$70,000
33	Contractor parking	10	пос	Ψ7,000.00	W/General Con
<i>34</i>	Contractor staging and laydown area	17,837	SF	\$2.00	\$35,673
<i>35</i>	Temp signs	1	LS	\$35,000.00	\$35,000
36	Wash down/re-fueling/parking allowance			, , , , , , , , , , , , , , , , , , , ,	W/General Con
<i>37</i>	31 23 19 Dewatering and Drainage				,
<i>38</i>	Dewatering for sitework excavation; allow	1	LS	\$200,000.00	\$200,000
<i>39</i>	31 25 00 Erosion and Sedimentation Controls				
40	Temporary seed cover	1	AL	\$25,000.00	\$25,000
41	Compost sock	3,964	LF	\$14.00	\$55,496
<i>42</i>					
<i>43</i>	G1020 Site Demolition and Relocation				
44	02 41 00 Demolition				
45	Saw cut existing pavement	1	LS	\$50,000.00	\$50,000
46					
<i>47</i>	Protection of existing	1	AL	\$350,000.00	\$350,000
48	Protect drain and sewer line	500	LF		Incl above
49 50	Protect tree	23	EA		Incl above



Providence, RI 118,911 GSF

SITEWORK DETAILS - PHASE 1A

	<u>DESCRIPTION</u>	<u>QUANTITY</u>	<u>UNIT</u>	<u>UNIT COST</u>	<u>TOTAL</u>
51 52 53 54 55 56 57 58 59	Remove & dispose Remove drain line Remove control valves Remove surface edging Remove sewer line Remove concrete pad Remove tree Silt sock	1	AL	\$85,000.00	\$85,000 Incl above
60 61 62 63	G1020.01 Building Demolition 02 30 00 Building Demolition Building demoltion				See Above
64 65 66	G1030 Site Earthwork Soils Characterization and Disposal; allowance Rock excavation	1	AL	\$350,000.00	\$350,000 NIC
67 68	Rough grading Fine grading	118,911 18,285	SY SF	\$1.50 \$1.00	\$178,367 \$18,285
69 70 71	Cut and fill Gravel base Temporary swales w/check dams	2,032 677 1	CY CY AL	\$9.00 \$38.00 \$15,000.00	\$18,285 \$25,726 \$15,000
72 73 74	Spread loam Temporary parking Allow for miscellaneous repairs during construction	7,250 1	CY LS	\$11.00 \$75,000.00	\$79,750 NIC \$75,000
75 76 77	Allow for soil retention G10 SITE PREPARATION TOTAL	1	LS	\$500,000.00	\$500,000 \$2,319,018
78 79					42,021,020
80 81 82	G20 SITE IMPROVEMENTS G2020 Roadways				NIC
83 84 85	32 16 00 Curbs and Gutters				NIC
86 87 88	32 17 00 Paving Specialties Misc. marking other than above	1	LS	\$8,000.00	\$8,000
89 90	G2030 Pedestrian Paving 32 13 10 Rigid Paving PUV Budget 30 Matrix 11 June 2021		De	tailed Est Phase 1	1A Riverwalk



Printed 6/11/2021

Providence, RI 118,911 GSF

SITEWORK DETAILS - PHASE 1A

	<u>DESCRIPTION</u>	<u>QUANTITY</u>	<u>UNIT</u>	<u>UNIT COST</u>	<u>TOTAL</u>
91	Ramp	5,953	SF	\$100.00	\$595,300
92	ADA Path & Walkway; concrete	12,332	SF	\$15.00	\$184,980
93	Elevated Deck; Steel Grating	5,468	SF	\$250.00	\$1,367,000
94	IPE	220	SF	\$350.00	\$77,000
95	IPE Risers	183	LFR	\$350.00	\$64,050
96	Premium for Cobble Stone	1	AL	\$150,000.00	\$150,000
97	Access curb cut	1	LS	\$25,000.00	\$25,000
98					
99	G2040 Site Development				
<i>100</i>	G2040.01 Fences and Gates				
101	32 31 00 Fences and Gates				
<i>102</i>	Guardrails; steel	2,301	LF	\$350.00	\$805,350
<i>103</i>					
104	Granite	4,219	SF	\$300.00	\$1,265,700
<i>105</i>	Signage	1	EA	\$12,000.00	\$12,000
<i>106</i>	Traffic signs	1	AL	\$5,000.00	\$5,000
<i>107</i>	Lighting pole	1	LS	\$25,000.00	\$25,000
<i>108</i>	Concrete bollard	1	LS	\$15,000.00	\$15,000
<i>109</i>	Miscellaneous site improvements	1	LS	\$200,000.00	\$200,000
110					
111	G2050.02 Lawns and Grasses				
<i>112</i>	32 92 00 Turfs and Grasses				
<i>113</i>	Topsoil for planting beds, shrubs and perennials	1,863	CY	\$25.00	\$46,575
114	Ground cover	1	LS	\$150,000.00	\$150,000
115	Loam	4,404	SF	\$22.00	\$96,888
116	Sod	100,626	SF	\$1.50	\$150,939
117					
118	G2050.03 Trees, Plants and Ground Covers				
119	32 93 00 Plants				
<i>120</i>	Trees; 3" Cal	85	EA	\$1,500.00	\$127,500
121	Riparian Planing	5,000	SF	\$50.00	\$250,000
122				_	
123	G20 SITE IMPROVEMENTS TOTAL				\$5,621,282
124					
125					
126	G30 SITE CIVIL/MECHANICAL UTILITIES				
127	00040 VV - V-W-I				
128	G3010 Water Utilities				
129	33 10 00 Water Utilities	= 000		# #0.00	4050
130	4" domestic water service pipe	5,000	LF Do	\$70.00	\$350,000
	UV Budget 30 Matrix 11 June 2021 rinted 6/11/2021		Dе	tailed Est Phase 1A Page	216 of 231

Providence, RI 118,911 GSF

SITEWORK DETAILS - PHASE 1A

	<u>DESCRIPTION</u>	QUANTITY	<u>UNIT</u>	<u>UNIT COST</u>	<u>TOTAL</u>
131	6" fire protection service pipe	2,500	LF	\$85.00	\$212,500
<i>132</i>	CLDI water line	3,800	LF	\$25.00	\$95,000
133	Connect to existing	1	EA	\$25,000.00	\$25,000
134	Hydrant	1	LS	\$35,000.00	\$35,000
<i>135</i>	Thrust blocks - force main	1	LS	\$15,000.00	\$15,000
<i>136</i>					
<i>137</i>	G3020 Sanitary Sewerage Utilities				
<i>138</i>	33 31 00 Sanitary Sewerage				
139	Connect to existing SMH	1	LS	\$30,000.00	\$30,000
<i>140</i>	PVC sewer line	5,000	LF	\$82.00	\$410,000
141	SMH	1	LS	\$65,000.00	\$65,000
<i>142</i>					
<i>143</i>	G3030 Storm Drainage Utilities				
144	33 41 00 Storm Utility Drainage				
<i>145</i>	12" dia CPE storm drain pipe, corriugated polyethylene pipe	3,000	LF	\$35.00	\$105,000
<i>146</i>	AD	10	EA	\$1,750.00	\$17,500
<i>147</i>	CB	5	EA	\$3,200.00	\$16,000
<i>148</i>	Connect to existing DMH	1	EA	\$1,750.00	\$1,750
149	DMH	5	EA	\$4,000.00	\$20,000
<i>150</i>	Outlet control structure	1	EA	\$4,500.00	\$4,500
<i>151</i>					
<i>152</i>	G3040 Gas Utilities				
<i>153</i>	33 50 00 Gas Service				
154	Connection to existing gas main				NIC
<i>155</i>	Gas Line Trench				NIC
<i>156</i>				_	
<i>157</i>	G30 SITE CIVIL/MECHANICAL UTILITIES TOTAL				\$1,402,250
<i>158</i>					
159					
<i>160</i>	G40 SITE ELECTRICAL UTILITIES				
161					
<i>162</i>	G4010 Site Electrical Utilities				
<i>163</i>	Site Lighting: (ALLOW)	1	AL	\$750,000.00	\$750,000
164	Pedestrian Walway Light Pole	1	LS	\$150,000.00	\$150,000
165	1" Pvc, 4#8 UG	10,000	LF	\$16.41	\$164,076
166	Site Lighting Controls	1	LS	\$100,000.00	\$100,000
167					
168	Site Utilities	1	LS	\$300,000.00	\$300,000
169				_	*****
170	G40 SITE ELECTRICAL UTILITIES TOTAL PIV Budget 30 Matrix 11 June 2021		De	tailed Est Phase 1A	\$1,464,076 Riverwalk

Providence, RI 118,911 GSF

SITEWORK DETAILS - PHASE 1A

<u>DESCRIPTION</u> <u>QUANTITY</u> <u>UNIT</u> <u>UNIT COST</u> <u>TOTAL</u>

171

172 TOTAL SITEWORK SUMMARY \$10,806,626



Providence, RI 17,887 GSF

MAIN SUMMARY PHASE 1B RIVERWALK

	<u>DESCRIPTION</u>			<u>TOTAL</u>	COST/SF
1	Direct Trade Costs With Site				
2	Site Development			\$2,991,930	\$167.27
<i>3</i>	Direct Trade Cost SubTotal		_	\$2,991,930	\$167.27
<i>4 5</i>	Pricing Contingency Trade Cost SubTotal	15.00%	\$2,991,930 _	\$448,790 \$3,440,720	\$25.09 \$192.36
6	General Conditions	5.75%	\$3,440,720	\$197,841	\$11.06
7	General Requirements	5.25%	\$3,638,561	\$191,024	\$10.68
8	Insurance	1.50%	\$3,829,585	\$57,444	\$3.21
9	Bond	0.65%	\$3,887,029	\$25,266	\$1.41
10	Permit	0.00%	\$3,912,295	\$0	\$0.00
11	Fee	3.00%	\$3,912,295	\$117,369	\$6.56
12	Estimated Construction Cost Total		_	\$4,029,664	\$225.28



Providence, RI 30,551 GSF

DIRECT COST SUMMARY - PHASE 1B

	<u>ELEMENT</u>	<u>TOTAL</u>
11 12	F20 FACILITY REMEDIATION	\$0
13 14	F30 DEMOLITION	\$0
	G10 SITE PREPARATION	\$830,036
	G20 SITE IMPROVEMENTS	\$1,346,529
19 20	G30 SITE CIVIL/MECHANICAL UTILITIES	\$457,550
21 22	G40 SITE ELECTRICAL UTILITIES	\$357,815
23 24	TOTAL SITEWORK	<u>\$2,991,930</u>
25 26		*=1223123
27 28		
29 30		
31 32		
33 34		
35 36 37		
38 39		
40 41		
42 43		
44 45		
46		



Providence, RI 26,627 GSF

	<u>DESCRIPTION</u>	QUANTITY	<u>UNIT</u>	<u>UNIT COST</u>	<u>TOTAL</u>
11	F20 FACILITY REMEDIATION				
12					
<i>13</i>	F2010 Hazardous Materials Remediation				
14	Hazmat abatement/Soil Remediation				NIC
15	F20 FACILITY REMEDIATION TOTAL				\$0
16					
<i>17</i>					
18	F30 DEMOLITION				
19					
20	F3010 Structure Demolition				
21	Building demolition				NIC
<i>22</i>	F30 DEMOLITION TOTAL				\$0
<i>23</i>					
24					
25	G10 SITE PREPARATION				
26					
<i>27</i>	G1010 Site Clearing				
<i>28</i>	31 10 00 Site Clearing				
<i>29</i>	Site clearing		ACRES	\$10,000.00	\$4,100
<i>30</i>	Construction fence, install, maintain, remove & reinstall;	1,024	LF	\$12.00	\$12,282
<i>31</i>	Double construction gate	4	PR	\$2,500.00	\$10,000
<i>32</i>	Temporary construction entrance	2	LOC	\$7,000.00	\$14,000
<i>33</i>	Contractor parking				W/General Con
<i>34</i>	Contractor staging and laydown area	894	SF	\$2.00	\$1,789
<i>35</i>	Temp signs	1	LS	\$5,000.00	\$5,000
<i>36</i>	Wash down/re-fueling/parking allowance				W/General Con
<i>37</i>	31 23 19 Dewatering and Drainage				
<i>38</i>	Dewatering for sitework excavation; allow	1	LS	\$35,000.00	\$35,000
<i>39</i>	31 25 00 Erosion and Sedimentation Controls				
40	Temporary seed cover	1	AL	\$5,000.00	\$5,000
41	Compost sock	338	LF	\$14.00	\$4,729
<i>42</i>					
<i>43</i>	G1020 Site Demolition and Relocation				
44	02 41 00 Demolition				±
45	Saw cut existing pavement	1	LS	\$10,000.00	\$10,000
46		-		APP 000 00	A== 000
47	Protection of existing	1	AL	\$75,000.00	\$75,000
48	Protect drain and sewer line				Incl above
49	Protect tree				Incl above
50	DIW Rudget 30 Matrix 11 June 2021		т	Natailad Est Sita I	Divorwalls 1 B



Providence, RI 26,627 GSF

	<u>DESCRIPTION</u>	<u>QUANTITY</u>	<u>UNIT</u>	<u>UNIT COST</u>	<u>TOTAL</u>
51 52 53 54 55 56 57 58 59 60	Remove & dispose Remove drain line Remove control valves Remove surface edging Remove sewer line Remove concrete pad Remove tree Silt sock G1020.01 Building Demolition	1	AL	\$50,000.00	\$50,000 Incl above
61	02 30 00 Building Demolition				
<i>62</i>	Building demoltion				See Above
63					
64 65	G1030 Site Earthwork Soils Characterization and Disposal; allowance	1	AL	\$180,000.00	\$180,000
66	Rock excavation	1	AL	\$100,000.00	\$180,000 NIC
67	Rough grading	2,959	SY	\$1.50	\$4,439
68	Fine grading	17,887	SF	\$1.00	\$17,887
69	Cut and fill	3,312	CY	\$9.00	\$29,812
70	Gravel base	1	LS	\$25,000.00	\$25,000
<i>71</i>	Temporary swales w/check dams	1	AL	\$10,000.00	\$10,000
<i>72</i>	Spread loam	3,000	CY	\$12.00	\$36,000
<i>73</i>	Temporary parking				NIC
<i>74</i>	Allow for miscellaneous repairs during construction	1	LS	\$100,000.00	\$100,000
<i>75</i>	Allow for soil retention	1	LS	\$200,000.00	\$200,000
76 77 78 79	G10 SITE PREPARATION TOTAL			-	\$830,036
80	G20 SITE IMPROVEMENTS				
81					
<i>82</i>	G2020 Roadways				NIC
<i>83</i>					
84	32 16 00 Curbs and Gutters				NIC
85					
<i>86</i>	32 17 00 Paving Specialties				
<i>87</i>	Performance Platform	495	SF	\$50.00	\$24,750
88	Paving	6,819	SF	\$15.00	\$102,285
89	Steps	390	LFR	\$300.00	\$117,000
90	Premium for specialties deecal/decoration/recognition	1	LS	\$150,000.00	\$150,000
	PUV Budget 30 Matrix 11 June 2021 Printed 6/11/2021			Detailed Est Site R Page	iverwalk 1B e 222 of 231

Providence, RI 26,627 GSF

	<u>DESCRIPTION</u>	QUANTITY	<u>UNIT</u>	<u>UNIT COST</u>	<u>TOTAL</u>
91	ADA Ramp Cuts	1	LS	\$15,000.00	\$15,000
92					
93	G2040 Site Development				
94	G2040.01 Fences and Gates				
95	32 31 00 Fences and Gates	200	ır	¢250.00	¢1261F0
96	Guardrails; steel	389	LF	\$350.00	\$136,150
97	Retaining Wall				NIC
98	Ciama and	1	ΕΛ	¢1 ⊑ 000 00	¢1 F 000
99	Signage	1	EA	\$15,000.00	\$15,000
100	Traffic signs	1	AL LS	\$10,000.00	\$10,000
101	Lighting pole Concrete bollard	1	LS LS	\$20,000.00	\$20,000
102 103		1 1	LS LS	\$15,000.00 \$100,000.00	\$15,000 \$100,000
103 104	Miscellaneous site improvements	1	r9	\$100,000.00	\$100,000
104 105	G2050.02 Lawns and Grasses				
105	32 92 00 Turfs and Grasses				
107	Topsoil for planting beds, shrubs and perennials	545	CY	\$25.00	\$13,625
107	Ground cover	1	LS	\$50,000.00	\$50,000
100	Loam	29,426	SF	\$0.55	\$16,184
110	Sod	18,923	SF	\$1.50	\$28,385
111	300	10,723	51	Ψ1.50	Ψ20,303
112	G2050.03 Trees, Plants and Ground Covers				
113	32 93 00 Plants				
114	Trees; 3" Cal	16	EA	\$1,500.00	\$24,000
115	Riparian Planing	10,183	SF	\$50.00	\$509,150
116		10,200	01	400.00	4007,100
117	G20 SITE IMPROVEMENTS TOTAL			_	\$1,346,529
118					. ,= =,=
119					
120	G30 SITE CIVIL/MECHANICAL UTILITIES				
121	·				
122	G3010 Water Utilities				
<i>123</i>	33 10 00 Water Utilities				
124	4" domestic water service pipe	2,500	LF	\$70.00	\$175,000
<i>125</i>	6" fire protection service pipe	500	LF	\$85.00	\$42,500
<i>126</i>	CLDI water line	2,500	LF	\$25.00	\$62,500
<i>127</i>	Connect to existing	1	EA	\$2,000.00	\$2,000
<i>128</i>	Hydrant	1	LS	\$10,000.00	\$10,000
129	Thrust blocks - force main	1	LS	\$2,000.00	\$2,000
<i>130</i>					
P	PUV Budget 30 Matrix 11 June 2021]	Detailed Est Site Ri	verwalk 1B



Providence, RI 26,627 GSF

	<u>DESCRIPTION</u>	QUANTITY	<u>UNIT</u>	<u>UNIT COST</u>	<u>TOTAL</u>
131	G3020 Sanitary Sewerage Utilities				
<i>132</i>	33 31 00 Sanitary Sewerage				
133	Connect to existing SMH	1	LS	\$1,200.00	\$1,200
134	PVC sewer line	500	LF	\$82.00	\$41,000
<i>135</i>	SMH	1	EA	\$15,000.00	\$15,000
<i>136</i>					
<i>137</i>	G3030 Storm Drainage Utilities				
<i>138</i>	33 41 00 Storm Utility Drainage				
139	12" dia CPE storm drain pipe, corriugated polyethylene pipe	2,000	LF	\$35.00	\$70,000
140	AD	5	EA	\$1,750.00	\$8,750
141	СВ	3	EA	\$3,200.00	\$9,600
<i>142</i>	Connect to existing DMH	1	EA	\$1,500.00	\$1,500
<i>143</i>	DMH	3	EA	\$4,000.00	\$12,000
144	Outlet control structure	1	EA	\$4,500.00	\$4,500
<i>145</i>					
146	G3040 Gas Utilities				
<i>147</i>	33 50 00 Gas Service				
148	Connection to existing gas main				NIC
149	Gas Line Trench				NIC
150				_	
151	G30 SITE CIVIL/MECHANICAL UTILITIES TOTAL				\$457,550
<i>152</i>					
<i>153</i>					
<i>154</i>	G40 SITE ELECTRICAL UTILITIES				
<i>155</i>					
156	G4010 Site Electrical Utilities				
157	Site Lighting: (ALLOW)	1	AL	\$150,000.00	\$150,000
158	Pedestrian Walkway Light Pole	1	LS	\$100,000.00	\$100,000
159	1" Pvc, 4#8 UG	2,000	LF	\$16.41	\$32,815
160	Site Lighting Controls	1	LS	\$25,000.00	\$25,000
161	Ch. Mallar	_		φ τ ο 222 22	450.000
162	Site Utilities	1	LS	\$50,000.00	\$50,000
163	CAO CIME EL ECADICAL MAINTENES MONAS			_	#DEE 04 E
164	G40 SITE ELECTRICAL UTILITIES TOTAL				\$357,815
165		TOTAL	TTETAL	DIZ CIIMMADV	¢2 001 020
166		IUIALS	HEWC	ORK SUMMARY	\$2,991,930
<i>167</i>					



Providence, RI 18,366 GSF

MAIN SUMMARY - RIVERWALK PHASE 2

	<u>DESCRIPTION</u>			<u>TOTAL</u>	COST/SF
1	Direct Trade Costs With Site				
2	Site Development		_	\$7,057,610	\$384.28
3	Direct Trade Cost SubTotal			\$7,057,610	\$384.28
4	Pricing Contingency	15.00%	\$7,057,610	\$1,058,642	\$57.64
5	Trade Cost SubTotal			\$8,116,252	\$441.92
6	General Conditions	5.75%	\$8,116,252	\$466,684	\$25.41
7	General Requirements	5.25%	\$8,582,936	\$450,604	\$24.53
8	Insurance	1.50%	\$9,033,540	\$135,503	\$7.38
9	Bond	0.65%	\$9,169,043	\$59,599	\$3.25
10	Permit	0.00%	\$9,228,642	\$0	\$0.00
11	Fee	3.00%	\$9,228,642	\$276,859	\$15.07
<i>12</i>	Estimated Construction Cost Total		_	\$9,505,501	\$517.56



Providence, RI 18,366 GSF

DIRECT COST SUMMARY - RIVERWALK PHASE 2

	<u>ELEMENT</u>	<u>TOTAL</u>
11 12	F20 FACILITY REMEDIATION	\$0
13 14	F30 DEMOLITION	\$0
	G10 SITE PREPARATION	\$1,010,287
17 18	G20 SITE IMPROVEMENTS	\$5,259,150
19 20	G30 SITE CIVIL/MECHANICAL UTILITIES	\$538,950
21 22	G40 SITE ELECTRICAL UTILITIES	\$249,223
23 24	TOTAL FOR SITEWORK	<u>\$7,057,610</u>
25 26		<u> </u>
27 28		
29 30		
31 32		
33 34		
35 36 37		
38 39		
40 41		
42 43		
44 45		
46		



Providence, RI 40,885 GSF

SITEWORK DETAILS - RIVERWALK PHASE 2

	<u>DESCRIPTION</u>	QUANTITY	<u>UNIT</u>	<u>UNIT COST</u>	<u>TOTAL</u>
11	F20 FACILITY REMEDIATION				
12					
<i>13</i>	F2010 Hazardous Materials Remediation				
14	Hazmat abatement/Soil Remediation				NIC
15	F20 FACILITY REMEDIATION TOTAL				\$0
16					
<i>17</i>					
18	F30 DEMOLITION				
19					
20	F3010 Structure Demolition				
21	Building demolition				NIC
<i>22</i>	F30 DEMOLITION TOTAL				\$0
<i>23</i>					
24					
<i>25</i>	G10 SITE PREPARATION				
<i>26</i>					
<i>27</i>	G1010 Site Clearing				
<i>28</i>	31 10 00 Site Clearing				
<i>29</i>	Site clearing		ACRES	\$10,000.00	\$4,200
<i>30</i>	Construction fence, install, maintain, remove & reinstall;	32,985	LF	\$12.00	\$395,815
<i>31</i>	Double construction gate	4	PR	\$2,500.00	\$10,000
<i>32</i>	Temporary construction entrance	4	LOC	\$7,000.00	\$28,000
<i>33</i>	Contractor parking				W/General Con
<i>34</i>	Contractor staging and laydown area	918	SF	\$2.00	\$1,837
<i>35</i>	Temp signs	1	LS	\$15,000.00	\$15,000
36	Wash down/re-fueling/parking allowance				W/General Con
37	31 23 19 Dewatering and Drainage			*O= 000 00	 ↑○ ▼ ○ ○ ○
38	Dewatering for sitework excavation; allow	1	LS	\$35,000.00	\$35,000
39	31 25 00 Erosion and Sedimentation Controls	4	A T	#2.000.00	#2.000
40	Temporary seed cover	10.005	AL	\$3,000.00	\$3,000
41 42	Compost sock	10,885	LF	\$14.00	\$152,389
43	G1020 Site Demolition and Relocation				
44	02 41 00 Demolition				
45	Saw cut existing pavement	1	LS	\$5,000.00	\$5,000
46	baw cat existing pavement	-	Ц	ψ3,000.00	Ψ3,000
47	Protection of existing	1	AL	\$10,000.00	\$10,000
48	Protect drain and sewer line	500	LF	, , , , , , ,	Incl above
49	Protect tree	23	EA		Incl above
50		_			
	DIIV Rudget 30 Matrix 11 June 2021			Dhaca 2 Si	to Riverwalk



Providence, RI 40,885 GSF

SITEWORK DETAILS - RIVERWALK PHASE 2

	<u>DESCRIPTION</u>	QUANTITY	<u>UNIT</u>	<u>UNIT COST</u>	<u>TOTAL</u>
51 52 53 54 55 56	Remove & dispose Remove drain line Remove control valves Remove surface edging Remove sewer line Remove concrete pad	1	AL	\$10,000.00	\$10,000 Incl above Incl above Incl above Incl above Incl above
<i>57</i>	Remove tree				Incl above
58	Silt sock				Incl above
59					
60	G1020.01 Building Demolition				
61	02 30 00 Building Demolition				G A1
62	Building demoltion				See Above
63 64	G1030 Site Earthwork				
6 5	Soils Characterization and Disposal; allowance	1	AL	\$65,000.00	\$65,000
66	Rock excavation	1	7111	ψ03,000.00	NIC
67	Rough grading	4,543	SY	\$1.50	\$6,815
68	Fine grading	18,366	SF	\$1.00	\$18,366
69	Cut and fill	2,041	CY	\$9.00	\$18,366
70	Gravel base	1	LS	\$10,000.00	\$10,000
71	Temporary swales w/check dams	1	AL	\$5,000.00	\$5,000
<i>72</i>	Spread loam	1,500	CY	\$11.00	\$16,500
<i>73</i>	Temporary parking				NIC
74	Allow for miscellaneous repairs during construction	1	LS	\$50,000.00	\$50,000
<i>75</i>	Allow for soil retention	1	LS	\$150,000.00	\$150,000
76	CAO CUME PREPARATION MOMAN				#4.040.00 =
77 70	G10 SITE PREPARATION TOTAL				\$1,010,287
78 79					
80	G20 SITE IMPROVEMENTS				
81	GEO OTTE MAT NO VENERALO				
82	G2020 Roadways				
<i>83</i>	·				
84	Paving	30,466	SF	\$15.00	\$456,990
85	Ramp	1,460	SF	\$100.00	\$146,000
86	Existing stairs				NIC
<i>87</i>	Misc. marking other than above	1	LS	\$300.00	\$300
88					
89	G2030 Pedestrian Paving				
90	32 13 10 Rigid Paving			_	
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Providence, RI 40,885 GSF

<u>SITEWORK DETAILS - RIVERWALK PHASE 2</u>

	<u>DESCRIPTION</u>	QUANTITY	<u>UNIT</u>	<u>UNIT COST</u>	<u>TOTAL</u>
91	Landing Pavement; Concrete unit pavers	3,832	SF	\$55.00	\$210,760
92	Access curb cut	1	LS	\$8,500.00	\$8,500
93					
94	G2040 Site Development				
95	G2040.01 Fences and Gates				
96	32 31 00 Fences and Gates				
97	Guardrails; steel	504	LF	\$350.00	\$176,400
98					
99	Retaining Wall				NIC
100					
101	G2040.02 Site and Street Furnishes			±0=0 00	to ooo == o
102	Elevated Deck; Steel Grating	8,959	SF	\$250.00	\$2,239,750
103	Elevated Tiered Seating; IPE	4,440	SF	\$350.00	\$1,554,000
104	C:	1	Ε.Δ	¢20,000,00	¢20.000
105	Signage Traffic a signa	1	EA	\$20,000.00	\$20,000
106 107	Traffic signs	1 1	AL LS	\$15,000.00	\$15,000
107	Lighting pole Concrete bollard	50	EA	\$20,000.00 \$1,500.00	\$20,000 \$75,000
100	Miscellaneous site improvements	1	LS	\$1,500.00	\$150,000
110	Miscenaneous site improvements	1	LS	\$130,000.00	\$130,000
111	G2050.02 Lawns and Grasses				
112	32 92 00 Turfs and Grasses				
113	Topsoil for planting beds, shrubs and perennials	5,648	CY	\$25.00	\$141,200
114	Ground cover	1	LS	\$35,000.00	\$35,000
115	Loam	5,000	SF	\$0.55	\$2,750
116	Sod	5,000	SF	\$1.50	\$7,500
117		2,000		, -12 2	, , , , , , , , , , , , , , , , , , ,
118	G2050.03 Trees, Plants and Ground Covers				
119	32 93 00 Plants				
<i>120</i>	Trees; 3" Cal	0	EA	\$1,500.00	\$0
121	Riparian Planing	0	SF	\$30.00	\$0
<i>122</i>					
<i>123</i>	G20 SITE IMPROVEMENTS TOTAL			_	\$5,259,150
<i>124</i>					
<i>125</i>					
<i>126</i>	G30 SITE CIVIL/MECHANICAL UTILITIES				
<i>127</i>					
<i>128</i>	G3010 Water Utilities				
129	33 10 00 Water Utilities				
<i>130</i>	4" domestic water service pipe	2,500	LF	\$70.00	\$175,000
	PUV Budget 30 Matrix 11 June 2021 Printed 6/11/2021			Phase 2 Site Page	Riverwalk 229 of 231

Providence, RI 40,885 GSF

SITEWORK DETAILS - RIVERWALK PHASE 2

	<u>DESCRIPTION</u>	QUANTITY	<u>UNIT</u>	<u>UNIT COST</u>	<u>TOTAL</u>
131	6" fire protection service pipe	1,000	LF	\$85.00	\$85,000
132	CLDI water line	2,000	LF	\$25.00	\$50,000
133	Connect to existing	1	EA	\$3,500.00	\$3,500
134	Hydrant	1	LS	\$35,000.00	\$35,000
<i>135</i>	Thrust blocks - force main	1	LS	\$15,000.00	\$15,000
136					
<i>137</i>	G3020 Sanitary Sewerage Utilities				
<i>138</i>	33 31 00 Sanitary Sewerage				
139	Connect to existing SMH	1	LS	\$15,000.00	\$15,000
140	PVC sewer line	1,000	LF	\$82.00	\$82,000
<i>141</i>	SMH	1	EA	\$25,000.00	\$25,000
<i>142</i>					
<i>143</i>	G3030 Storm Drainage Utilities				
144	33 41 00 Storm Utility Drainage				
<i>145</i>	12" dia CPE storm drain pipe, corriugated polyethylene pipe	1,000	LF	\$35.00	\$35,000
<i>146</i>	AD	3	EA	\$1,750.00	\$5,250
<i>147</i>	CB	1	EA	\$3,200.00	\$3,200
<i>148</i>	Connect to existing DMH	1	EA	\$1,500.00	\$1,500
149	DMH	1	EA	\$4,000.00	\$4,000
150	Outlet control structure	1	EA	\$4,500.00	\$4,500
151					
152	G3040 Gas Utilities				
<i>153</i>	33 50 00 Gas Service				
<i>154</i>	Connection to existing gas main				NIC
<i>155</i>	Gas Line Trench				NIC
<i>156</i>				_	
157	G30 SITE CIVIL/MECHANICAL UTILITIES TOTAL				\$538,950
158					
159					
160	G40 SITE ELECTRICAL UTILITIES				
161	CAOAO Cha Elantainal Hallaina				
162	G4010 Site Electrical Utilities	1	ΑŢ	ф г о 000 00	ф Г О ООО
163	Site Lighting: (ALLOW)	1	AL	\$50,000.00	\$50,000
164	Pedestrian Walway Light Pole	2 000	LS	\$35,000.00	\$35,000
165 166	1" Pvc, 4#8 UG Site Lighting Controls	3,000	LF LC	\$16.41	\$49,223 \$15,000
166 167	Site Lighting Controls	1	LS	\$15,000.00	\$15,000
	Cita IItilitias	1	1.0	¢100 000 00	¢100 000
168 169	Site Utilities	1	LS	\$100,000.00	\$100,000
169 170	G40 SITE ELECTRICAL UTILITIES TOTAL			_	\$249,223
	PUV Budget 30 Matrix 11 June 2021			Phase 2 Site	•

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Providence, RI 40,885 GSF

SITEWORK DETAILS - RIVERWALK PHASE 2

	<u>DESCRIPTION</u>	<u>QUANTITY</u> <u>UNIT</u>	<u>UNIT COST</u>	<u>TOTAL</u>
171				
172		TOTAL SITEWORK SUMMARY		\$7,057,610
<i>173</i>			_	



ARUP

See corresponding Excel document for further details.

Budget Summary

Operating Incom	Operational e Revenue - Monthly Total	Operational Revenue - Non- Monthly Total	Event Rental Revenue Total	Rink Rental Total
January	\$14,500	\$0	\$10,000	\$150,000
February	\$14,500	\$0	\$8,000	\$150,000
March	\$14,500	\$0	\$8,000	\$150,000
April	\$14,500	\$0	\$8,000	\$0
May	\$14,500	\$20,325	\$18,000	\$8,000
June	\$14,500	\$46,000	\$19,000	\$8,000
July	\$14,500	\$49,000	\$26,000	\$8,000
August	\$14,500	\$55,000	\$8,000	\$8,000
September	\$14,500	\$0	\$8,000	\$8,000
October	\$14,500	\$0	\$26,000	\$0
November	\$14,500	\$0	\$8,000	\$0
December	\$14,500	\$0	\$6,000	\$150,000
	Γotal \$174,000	\$170,325	\$153,000	\$640,000

Operating Expenses	Monthly Operations Labor	City Event Labor Total	Programming Cost	Marketing / PR costs	Programming Digital Pylons	Imagination Center	Equipment Rental	Asset Maintenance	Production Maintenance Total	Artist Commissinoing	Total
January	\$64,581	\$0	\$4,200	\$4,200	\$2,100	\$4,200	\$0	\$26,700	\$0	\$10,000	\$115,981
February	\$60,591	\$0	\$9,200	\$9,200	\$4,600	\$9,200	\$0	\$23,200	\$0	\$10,000	\$125,991
March	\$68,960	\$0	\$4,600	\$4,600	\$2,300	\$4,600	\$0	\$36,700	\$12,000	\$10,000	\$143,760
April	\$63,981	\$12,800	\$4,200	\$4,200	\$2,100	\$4,200	\$0	\$127,200	\$0	\$10,000	\$228,681
May	\$66,770	\$12,800	\$4,400	\$4,400	\$2,200	\$4,400	\$0	\$24,200	\$0	\$10,000	\$129,170
June	\$67,883	\$16,000	\$10,300	\$10,300	\$8,100	\$7,300	\$74,000	\$24,200	\$12,000	\$10,000	\$240,083
July	\$69,719	\$12,800	\$4,200	\$4,200	\$2,100	\$4,200	\$0	\$27,200	\$0	\$10,000	\$134,419
August	\$70,673	\$14,400	\$4,600	\$4,600	\$2,300	\$4,600	\$0	\$24,200	\$0	\$10,000	\$135,373
September	\$66,170	\$14,400	\$4,400	\$4,400	\$2,200	\$4,400	\$0	\$31,200	\$12,000	\$10,000	\$149,170
October	\$64,581	\$12,800	\$4,200	\$4,200	\$2,100	\$4,200	\$0	\$137,700	\$0	\$10,000	\$239,781
November	\$66,170	\$0	\$4,400	\$4,400	\$2,200	\$4,400	\$0	\$40,200	\$0	\$10,000	\$131,770
December	\$66,770	\$0	\$4,400	\$4,400	\$2,200	\$4,400	\$0	\$23,200	\$12,000	\$10,000	\$127,370
Total	\$796,851	\$96,000	\$63,100	\$63,100	\$34,500	\$60,100	\$74,000	\$545,900	\$48,000	\$120,000	\$1,901,551

⁼ yellow denotes potential private sponsor or grant