

Guiding America's Brilliance into the Future

The star is oriented so that the observation deck points directly East away from D.C. This allows for a scenic panorama of the Nation's Capital, looking out over the rest of the site grounds and down East Capitol Street NE towards the U.S. Capitol building. Doing so grants a view over Kingman Lake and the Anacostia River, as well as a view up East Capitol St. SE.

Design Process

Difficult definitions of what's valuable → ^{more than} ~~value~~ ^{self value}

Pros:	Cons:
<ul style="list-style-type: none"> References available in person → Japans doc, pictures Difficulties for admission class & studying Liberty to be the S_{ij} & t_{ij} Relevant to our generation's future Suggests to learn a lot on it Good for improve design & culture subjects teacher Lot of research available Contributions massive 	<ul style="list-style-type: none"> Site selection difficult Extremely detailed requirements → updating our gen. 1 JUSTIFICATION STRIKE It may be daunting Unfamiliar subject Have to do a lot and make last art & materials Disrupting the ecosystem Displacement

→ **Food Museum**

↑ **Service education to specific**
 = Learning / Samples / determine others

- Dome Food Studio

- NASA

- salt
- freeze

- IVEA walk-through Multi-course meal

- Bioscience / **Antibiotics** in **debris** **virus** & **cell**

→ **Self** & **value**

A map of the area around the RFK Stadium in Washington, D.C. The stadium is marked with a green pin and labeled 'RFK Stadium'. Surrounding streets include '22nd St NE', 'C St NE', 'E Capitol St SE', and 'Anacostia Park SE'. A blue pin marks the 'Armory' location. The map shows a mix of green spaces and urban areas.

[illegible]

envision the middle of a 16-sided polygon w/ 75 foot sides

• **PIVOTING POINT LANDMARK: BIGGER EYE STAR**
 - Made of 75 foot equilateral triangles
 - Equal to 75 feet
 - 8 underneath
 - 415

• Each PILLING REPRESENTS A DIFFERENT ASPECT OF AMERICAN SOCIETY IN THE 21ST CENTURY
 - ~~Science, Technology, Innovation, and~~
 - ~~These 5 categories represent~~ ~~different~~ ~~aspects~~
 - need to change which each pillar

• the star is supported but by grass & concrete "open space"... nothing obstructing the view of the landscape for a 75 foot distance from the star site

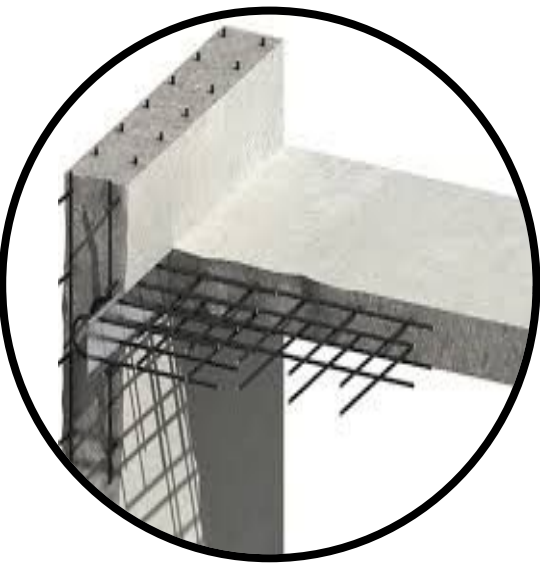
• **CONCEPTUAL, NOT TO SCALE**
 - Perimeter via optimization
 - 2, 4, 6, 8, 10, 12, 14, 16

• **each pillar is filled on the inside by an elevator and a ramp**
 - **entrance** for access to the top level observation deck
 - angled ramp
 - allows structural supports
 - glass for observation floor
 - glass panels
 - 1100 ft

A map of Washington, D.C. showing a route from the Lincoln Memorial to RFK Stadium. The route is marked with a blue dashed line and mile markers. Key landmarks labeled include the Lincoln Memorial, Washington Monument, U.S. Capitol, and RFK Stadium. The map also shows the Federal Triangle, Capitol Hill, and Lincoln Park.

Observation Deck: The observation deck at the top of the tallest pillar represents the future in the vertical progression of time; the images from the past decades in the murals transition to the blank canvas that is the present, to the transparent observation deck. The people standing on the observation deck are people who will be part of the future; they serve to represent it as a diverse, living and ever-changing part of the pavilion's symbolism.

Materials



Reinforced Concrete
Cast-in-place reinforced concrete to be used for the tower structure.

By adding the reinforced steel bars within the concrete the building becomes stronger in tension and more cost effective.



Recycled Rebar
At least 25% recycled steel used as rebar in the concrete.

Very strong and durable material used in a variety of ways to protect and ensure safety of visitors.



Limestone
Aesthetically pleasing flooring for the monument.

A durable and cost-effective material for its life cycle while also having a “monumental” aesthetic similar to other landmarks in D.C.

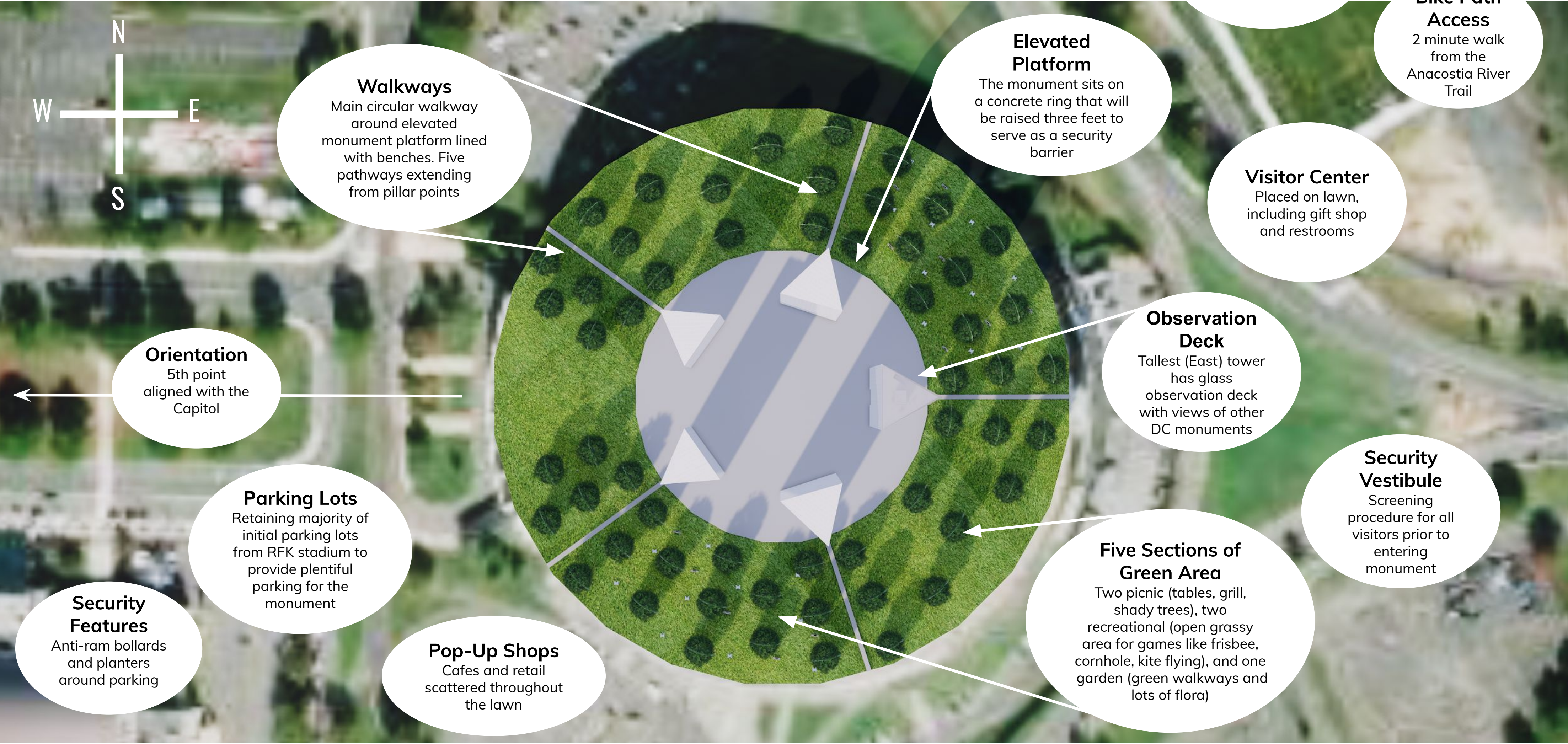
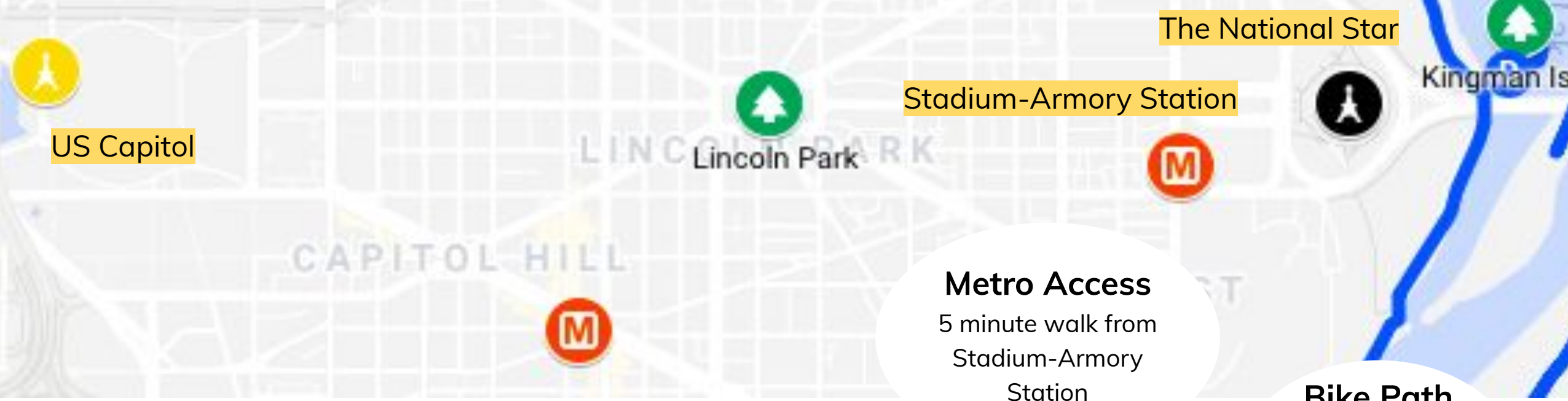


Tempered Glass
Durable construction glass used for the observation deck.

It is impact-resistant and presents a low risk to visitors in the event of failure.

Site Plan

To the right is a map of the DC area showing existing landmarks located directly to the West of the project site. The Stadium-Armory Metro Station and Anacostia Bike Trail are each less than a 5 minute walk to the monument. It is expected that people will access the site by driving (and parking in one of the two existing, resurfaced parking lots), via public transit, or by biking/walking. Below is a digital rendering of the model on top of a concrete base with five pathways extending through the surrounding green area connecting visitors to transportation options.



Construction Techniques

This monument will be a design-build project built with traditional and modern building methods using a wide variety of subcontractors. This will also be a DC First project, creating more local jobs rather than outsourcing.

Structure & Architecture

The star-shaped monument comprises a decagon with each side being 75 feet long. Each point of the star is a reinforced concrete tower sloping 28 degrees at the top, with steel framing at the observation deck. The sloped pillars allow the star design to be visible and easily recognizable from a distance.

Strategy for Sustainability

The monument will be constructed out of sustainable and long lasting materials, such as low-carbon emission concrete and recycled steel reinforcement. The development of the surrounding area will expand DC's green space and promote an environmentally sustainable culture.

Size and Scale of the Project

The pavilion will be a welcome addition to the Washington, DC skyline with the tallest pillar towering 300 feet in height. The two western pillars are 200 feet while the middle pillars stand 250 feet tall. These heights are similar to many other buildings in DC as limited by the city building code. By comparison the Washington Monument is twice the height as the tallest tower of the National Star.

Security

To protect the people visiting the monument, basic security features such as cameras, security guards and proper lighting will be implemented throughout the site. To secure the observation deck, the monument entrance will contain a screening vestibule containing x-ray machines and metal detectors. A capacity limit will additionally be provided to prevent overcrowding. To protect both pedestrians and the structure from vehicular threats, anti-ram bollards and planters will be placed around the designated parking areas.

Construction Timeline



The first star represents the completion of the first pillar and the second is for the start of the planting season

Cost Estimate / Feasibility Study

Categories	Cost Total
Demo of RFK Stadium	\$ 9,425,000
Site Development	\$ 4,010,000
Structure	\$ 17,304,200
Exterior	\$ 12,625,000
Building Systems	\$ 5,416,500
Finishes	\$ 2,019,780
Landscaping	\$ 10,867,200
Total Construction Cost	\$61,667,680
Total Construction Cost Per Square Foot of Site* Developed	\$140
*Total Square Footage of Site = 442,000 Sq Ft	

During the feasibility study, access and location were strongly considered when determining the project site. Selling points for this site included existing parking lots and public transportation to ease the barrier of access for visitors. We considered built in retail space and contrasted it with pop-up shops. The cost estimate aligns with pre-existing memorials in D.C.