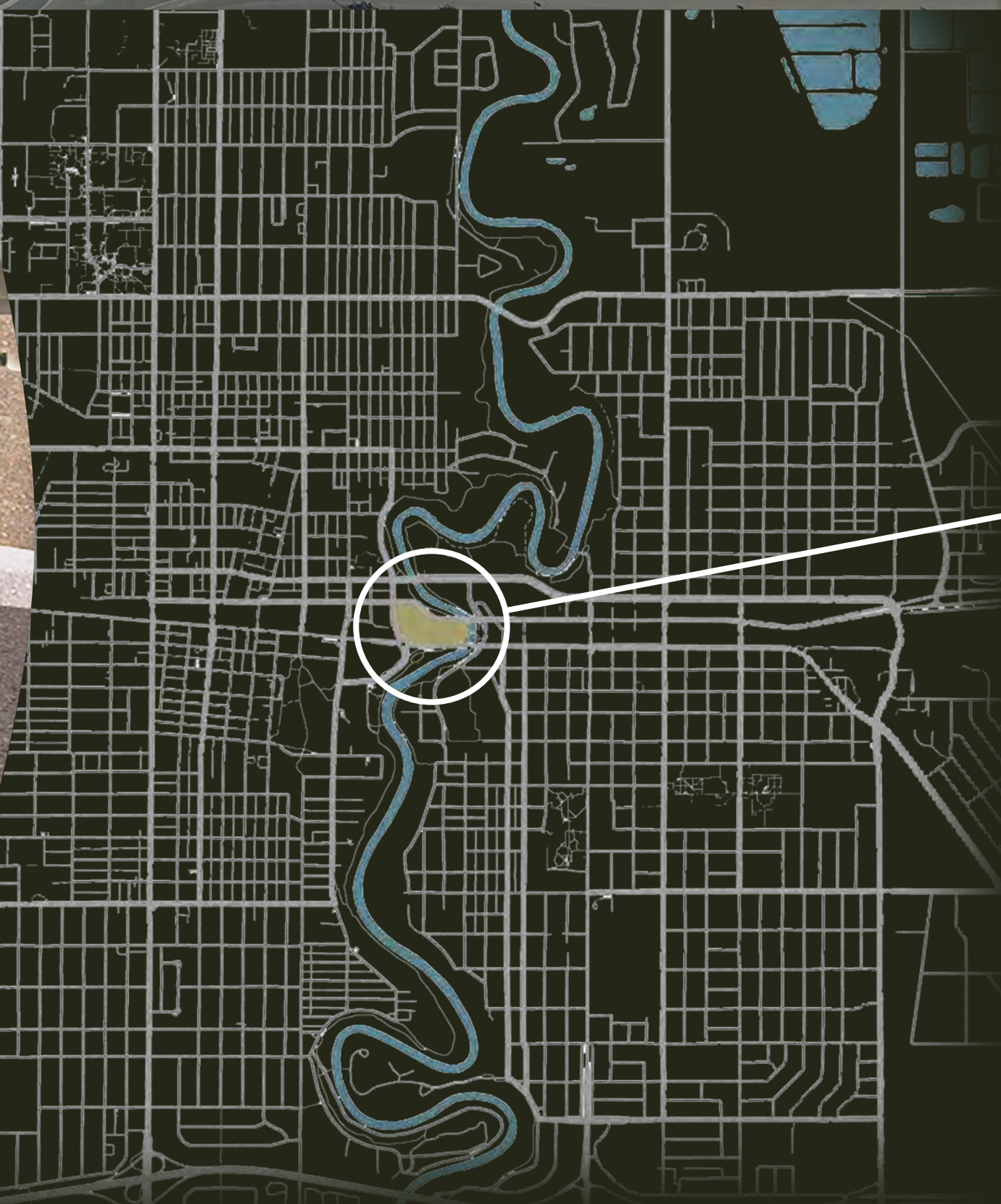
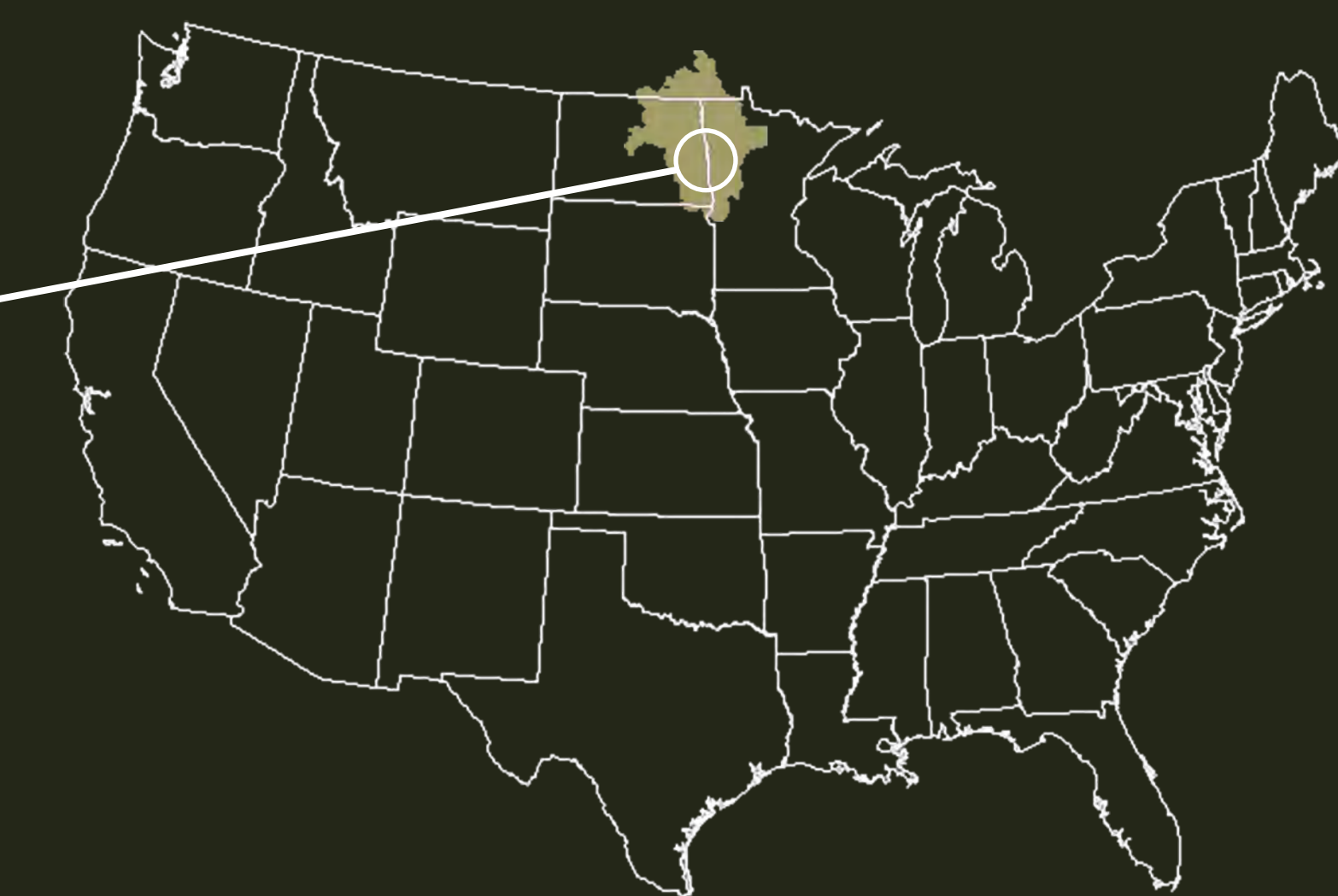


THE INTERSECTION OF NATURE AND KNOWLEDGE: RED RIVER VALLEY SCIENCE CENTER



Site Plan
1/64" = 1'-0"



Site Selection

Located at the heart of the Red River Valley in Fargo, North Dakota. The Site is a reused brownfield site where the Mid-America Steel company used to be located.

Concept Process

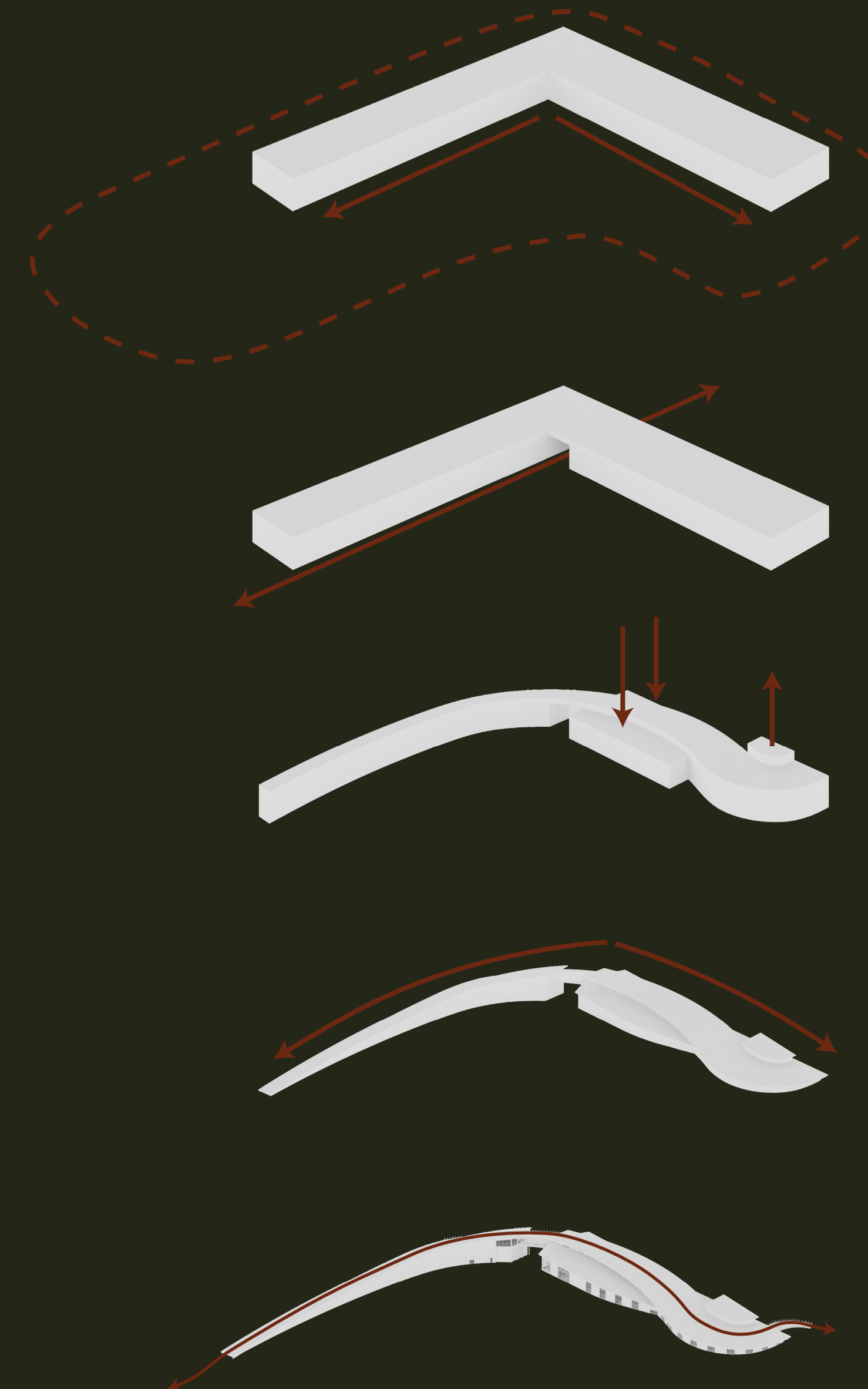
An elongated form spans along the southwest corner, fitting into the site's lengthy curved shape

A cut through the mass to account for the train tracks splitting the site into two

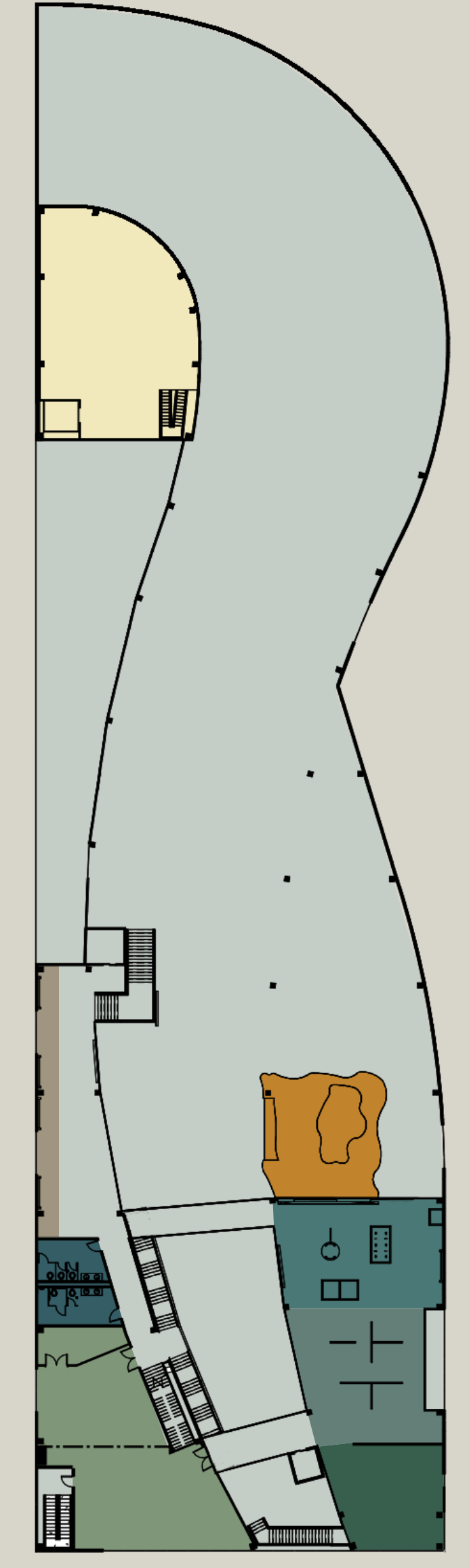
Defining shape with pushing and pulling of heights

Sloping of roofs and creating a walkway across the main green roof to connect the two halves of the site

Cut out of openings and connection to existing paths

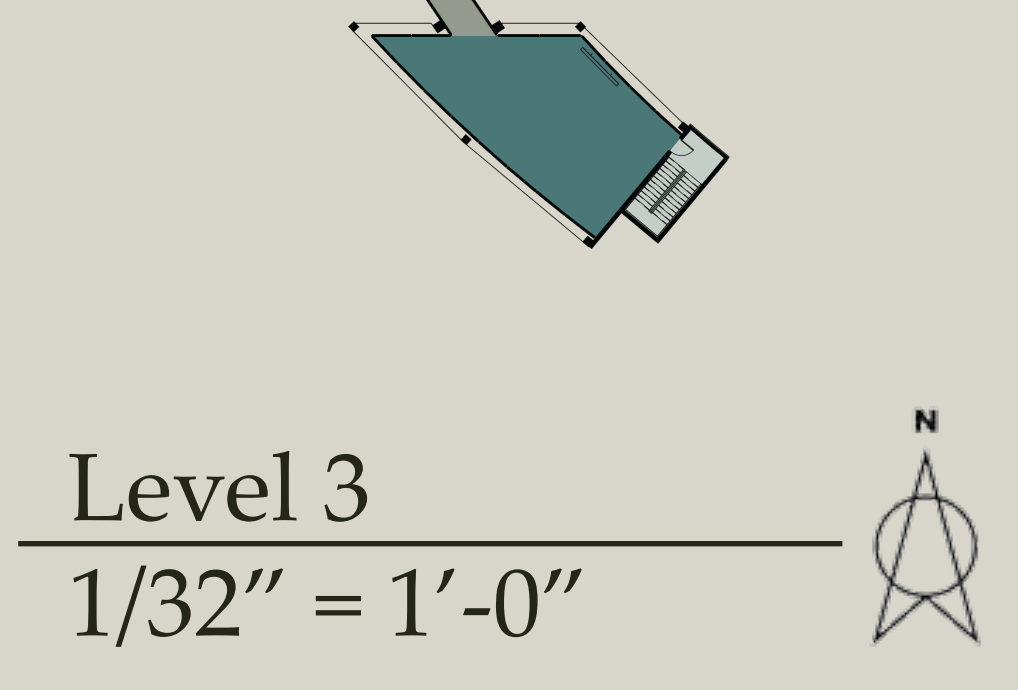
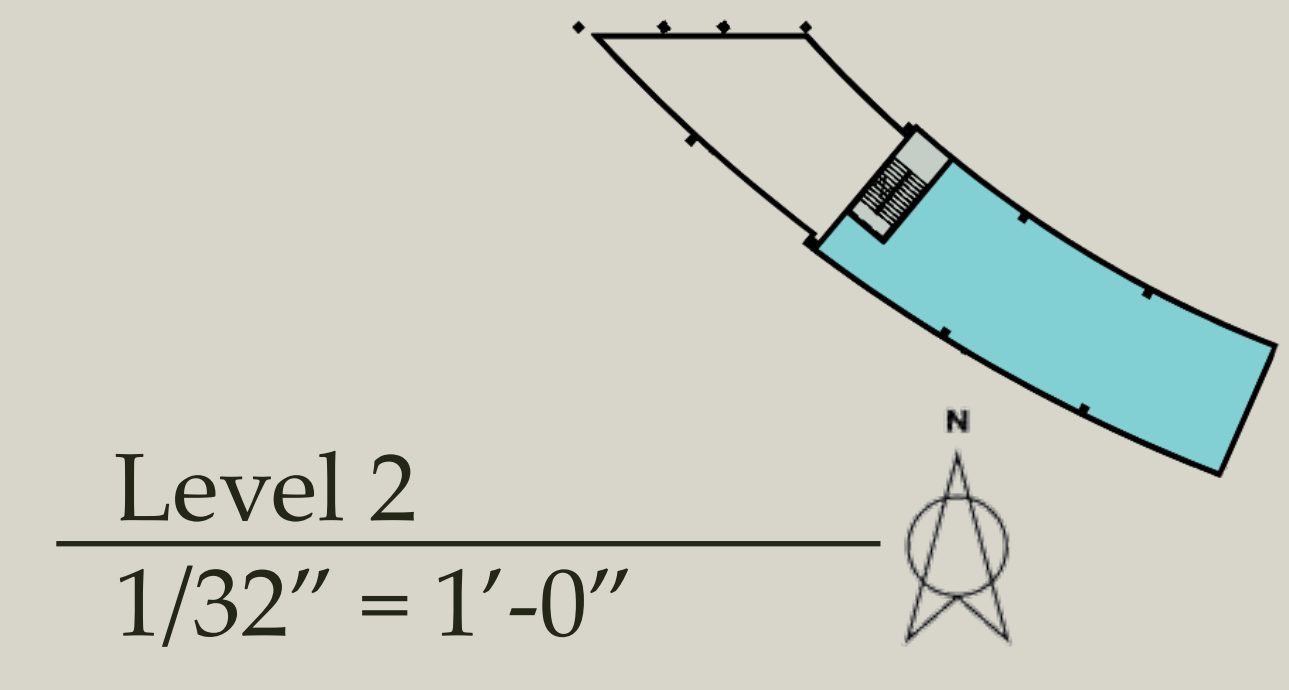
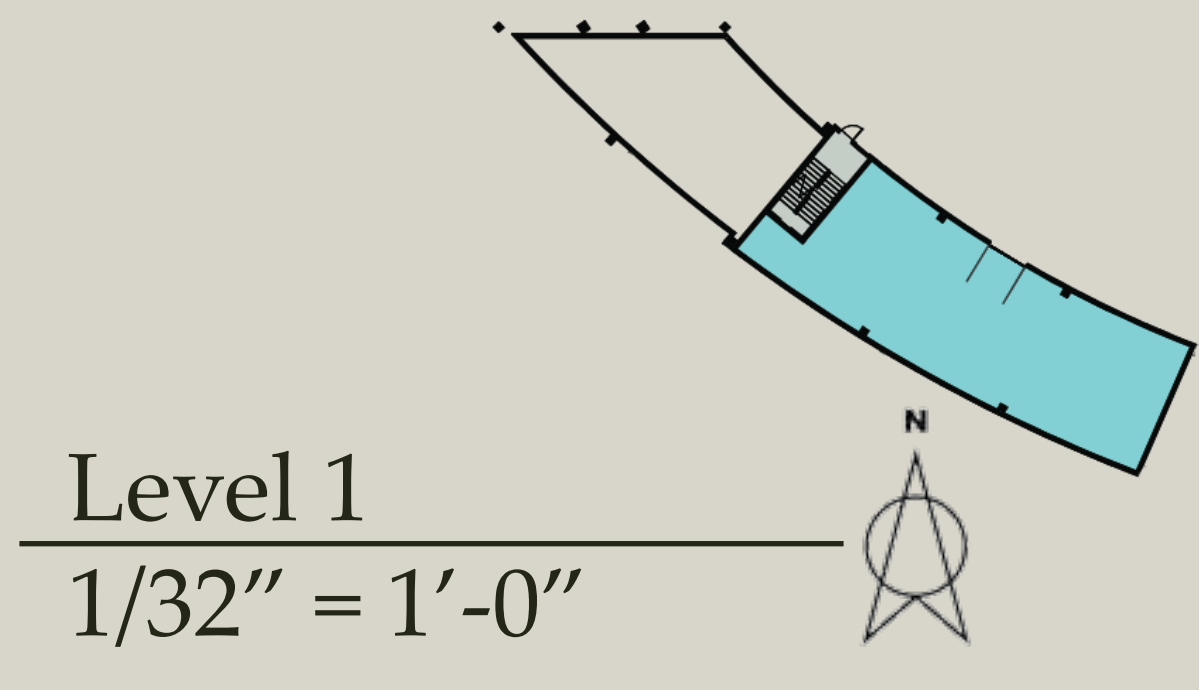


- Workshops
- Mechanical
- Janitorial
- Storage
- Offices
- Restrooms
- Nursing Room
- Coat Room
- Cafe
- Front Desk
- Work Room
- Gift Shop
- Animal Food Prep
- Duck Pond
- Exhibit Storage
- Veterinarian
- Classroom
- Regional Geography Exhibit
- Regional Animals
- Channel Fish
- Flooded Forest
- Information Desk
- Conservation Lab
- Circulation Space



- Mechanical
- Interactive Wall
- Restrooms
- Indoor Prairie
- Makers Space/Multi-Purpose Room
- Regional Forces Exhibit
- Historical Exhibit
- Special Exhibit
- Storage
- Circulation Space

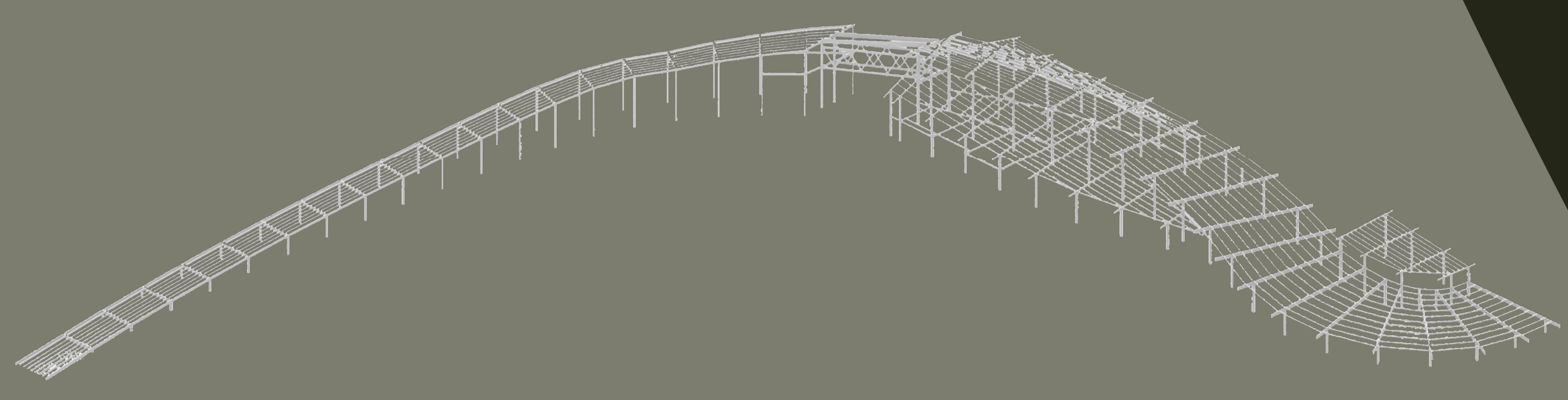
- Circulation Space
- Observation Room
- Skyway



Orthographic View



East Elevation

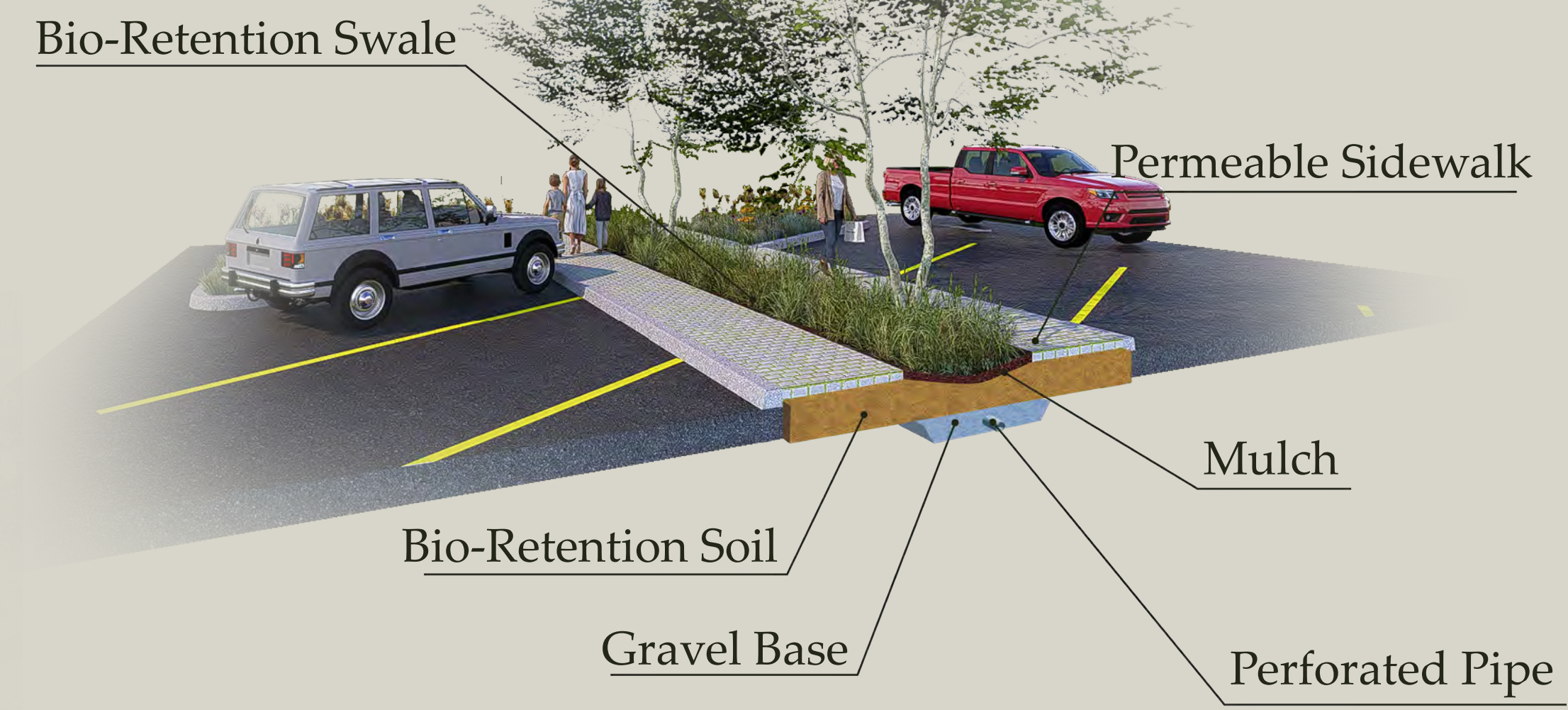


Heavy Timber Structure

The structure is made completely out of heavy mass timber, consisting of 97 columns spaced 30 feet apart and over 600 different beams



3D Section



Bio-Retention Swale Section

The parking area is equipped with bio-retention swales. These swales are strategically designed to manage rainwater runoff, facilitating the filtration and recharge of groundwater, while also remedying the contamination left by the historical industrial use of the site.

This transformative project revitalizes a former brownfield site, once home to the Mid America Steel plant, into a vibrant green space. Winding over the Science Center is an expansive green roof that extends over 1,000 feet, stretching from one end of the site to the other. This living roof not only connects the site's corners but also gracefully arches over a train track, integrating a pathway that invites visitors to explore the lush surroundings.

West of the Science Center is a forest park, featuring prairie outcroppings that seamlessly blend with the wooded landscape, enhancing biodiversity and providing a habitat for local wildlife.