
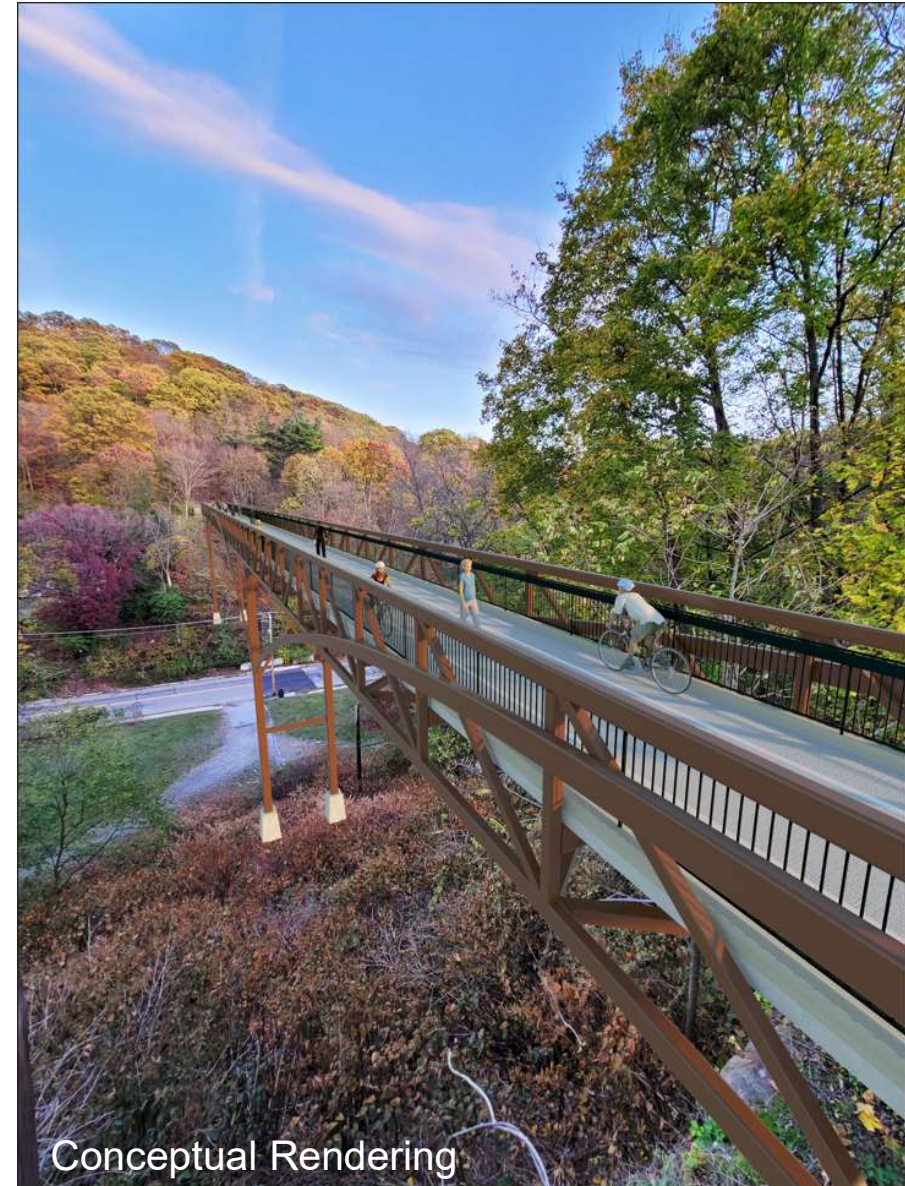


# WELCOME!

- Welcome to the Davis Avenue Pedestrian Bridge Preliminary Engineering Public Meeting
- Presentation: 7:00-8:00pm
- Q&A/Feedback: 8:00-8:30pm
- Please mute (  ) your microphone during the presentation.





# DAVIS AVENUE PEDESTRIAN BRIDGE

Final Design Public Meeting  
September 2022





# INTRODUCTIONS

Department of Mobility and Infrastructure

Zachary Workman, P.E.- Project Manager

HNTB Corporation

Ryan Whittington, P.E.- Design Team Project Manager

UpStudio Landscapes LLC

Lisa Dugan, PLA, ASLA, LEED AP- Landscape Architect



# AGENDA

- Introductions
- Project Overview
- Project Purpose and Need
- Design Process and Anticipated Timeline
- Existing Conditions
- Design Features
  - Approaches
  - Bridge
- Next Steps
- Questions and Feedback



# PROJECT OVERVIEW



## Brighton Heights Approach

- Streetscape
- Landscaping
- ADA Ramps
- Stormwater Control

## Riverview Park Approach

- Pedestrian/Bike Pathway
- Pedestrian Scale Lighting
- Stormwater Control
- Landscaping

## Pedestrian Bridge

- Pedestrians & Bicyclists
- Pedestrian Scale Lighting
- Light service vehicles

# PURPOSE AND NEED

## **Purpose -Overarching statement of what the project is intended to accomplish**

To reconnect pedestrians and bicyclists with Riverview Park

## **Needs- Identifies specific problems or deficiencies**

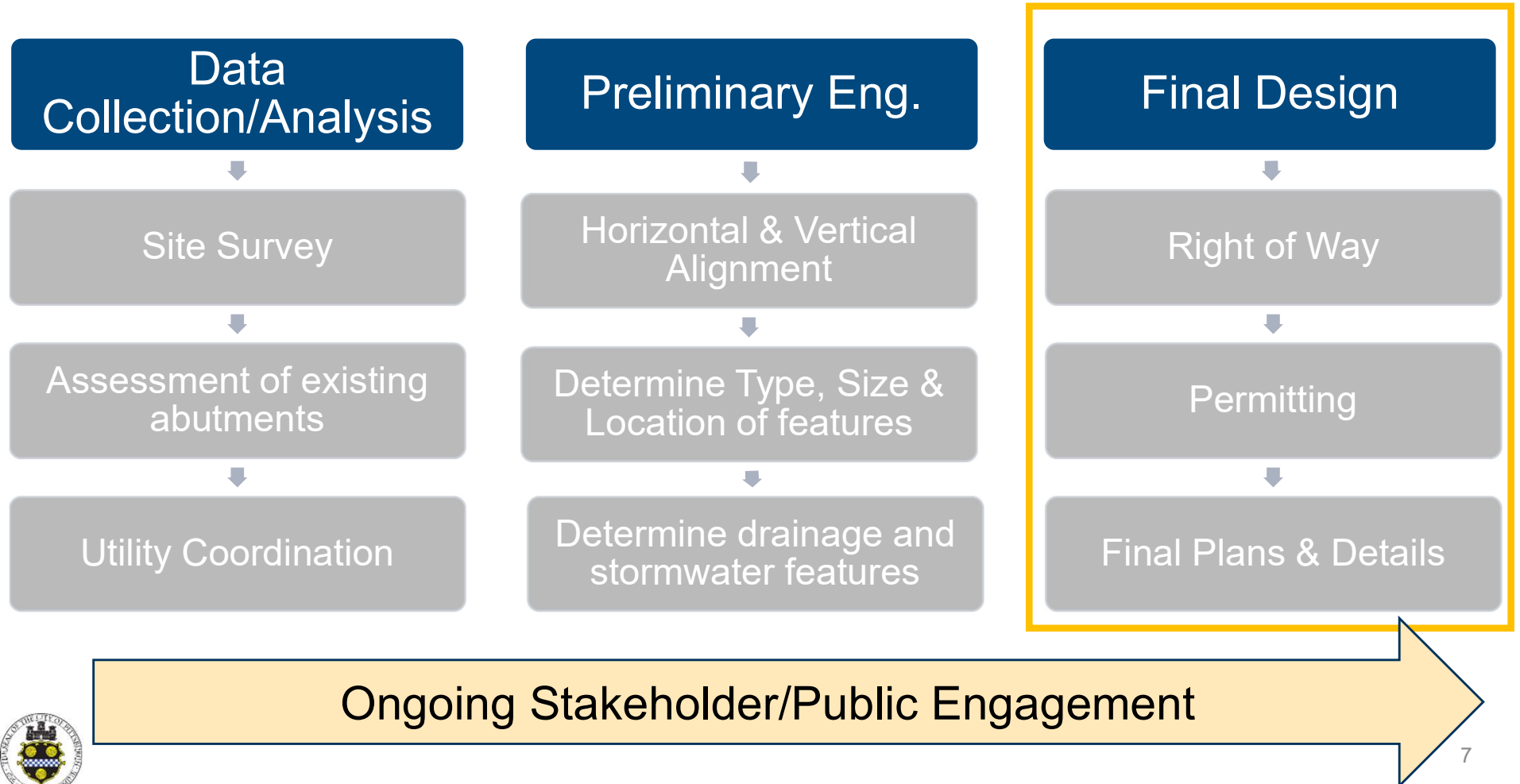
The existing Davis Avenue Bridge, which served as the most direct connection to Riverview Park, was demolished in 2009. With the demolition of the Davis Avenue bridge, the nearest connections to the park are over 1 mile away.

## **Goals – Secondary Objectives**

- Foster a sense of transition to Riverview Park
- Incorporate community driven art
- Improve accessibility
- Additional community driven considerations



# DESIGN PROCESS



# PROJECT TIMELINE

Activity	Anticipated Timing
Preliminary Engineering <ul style="list-style-type: none"><li>Public Meeting- December 13, 2021</li></ul>	Summer 2021- Spring 2022
Final Design <ul style="list-style-type: none"><li>Public Meeting- September 29<sup>th</sup>, 2022</li></ul>	Spring 2022- Fall 2022
Construction	Starting Spring 2023







## **EXISTING CONDITIONS**



# EXISTING CONDITIONS- APPROACHES

## Davis Avenue Connection





# EXISTING CONDITIONS- APPROACHES

## Riverview Drive Connection





# EXISTING CONDITIONS- APPROACHES

Park Gateway, Signage & Wayfinding Elements







## **DESIGN FEATURES- APPROACHES**



# Overall Plan



# DESIGN FEATURES- APPROACHES

## Davis Avenue Connection



### LEGEND:

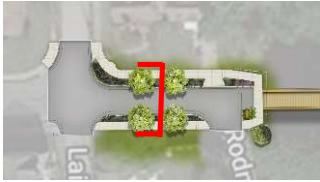
- A. Sidewalk & ADA ramp
- B. Curb bump-out with planting (narrows road width)
- C. Street trees
- D. Directional sign

- E. Bollard to restrict vehicular access
- F. Proposed bridge - pedestrian & bicycle access only
- G. Riverview Park trail connection
- H. ADA accessible seating area
- I. Existing tree to remain

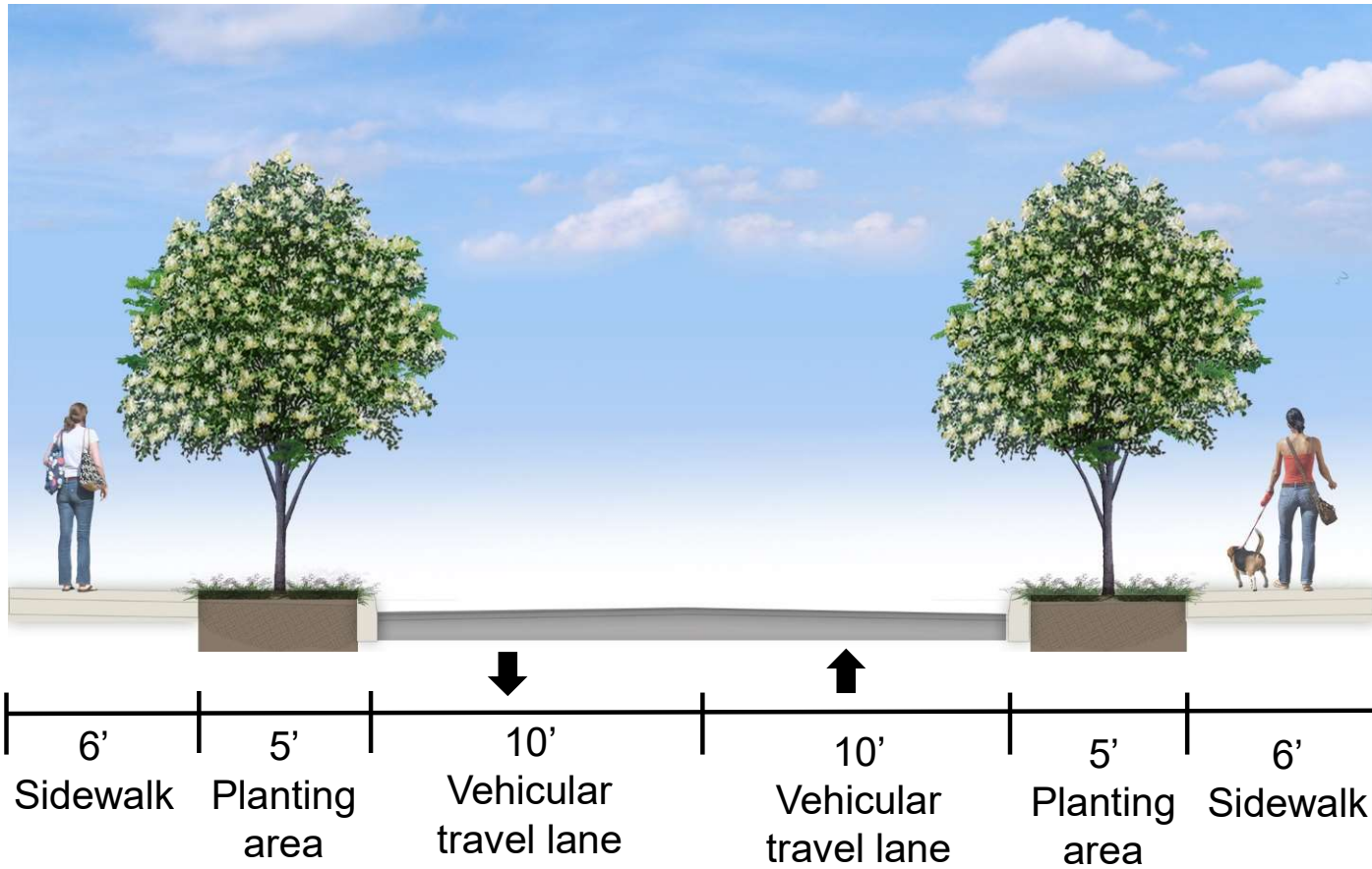


# DESIGN FEATURES- APPROACHES

## Typical Davis Avenue Streetscape Section



Key Plan





# DESIGN FEATURES- APPROACHES

## Riverview Park Connection

### LEGEND:

- A. Proposed bridge - pedestrian & bicycle access only
- B. Shade trees
- C. Trail connection (to Violet Lane Trail)
- D. Directional sign
- E. Paved trail connection to Riverview Park Loop
- F. Ornamental Trees
- G. Understory planting- Native/adapted grasses, shrubs & perennials
- H. ADA accessible seating area



Key Plan



# DESIGN FEATURES- APPROACHES

## Riverview Park Connection

### LEGEND:

- A. Paved trail connection to Riverview Park Loop
- B. Ornamental trees
- C. Directional sign
- D. Shade Tree
- E. Understory Planting - Native/adapted grasses, shrubs & perennials
- F. Bench seating



Key Plan

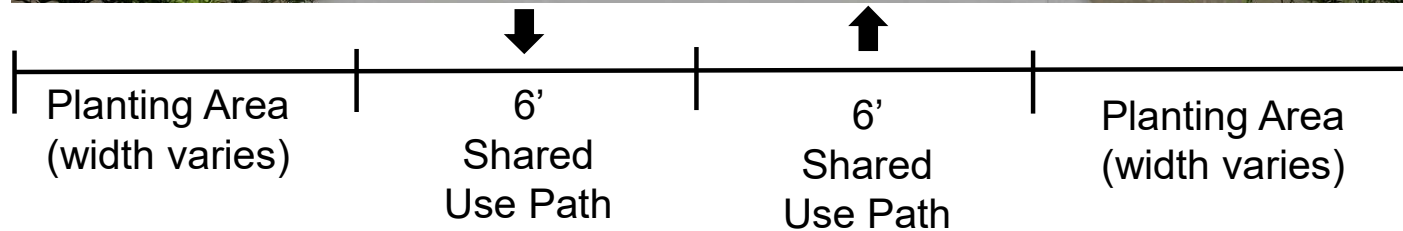


# DESIGN FEATURES- APPROACHES

## Typical Riverview Park Trail Section



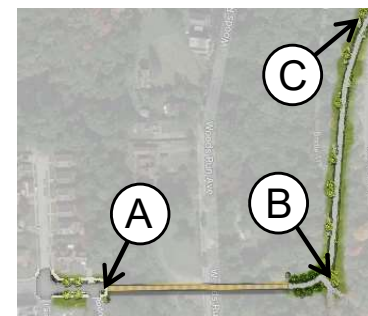
Key Plan





# DESIGN FEATURES- APPROACHES

## Wayfinding – Directional Signage



Key Plan



Directional sign A



Directional sign B



Directional sign C





# DESIGN FEATURES- MATERIALS

## Site Furnishings

Riverview Park Approach Only



Bench seating - 6' length  
(City of Pittsburgh standard)

\*image credit: Architectural Iron Company

Davis Avenue and Riverview Park Approaches



Aluminum ornamental fencing - 6' height  
(3 rail, classic top design)

\*image shown for conceptual purposes only



# DESIGN FEATURES- PLANTING

Utility Compatible Street Tree - Davis Avenue Approach



Japanese Tree Lilac 'Ivory Silk'

\*Utility compatible street tree selected from City of Pittsburgh "Approved Tree Species for Pittsburgh's Streets" list dated January 8, 2020.





# DESIGN FEATURES- PLANTING

Perennials, Groundcovers & Grasses - Davis Avenue Approach



Karl Foerster Feather Reed Grass



Purple de Oro Daylily



Silvery Sunproof Liriope





# DESIGN FEATURES- PLANTING

## Park Trail Trees - Riverview Park Approach



Common Serviceberry



Allegheny Serviceberry



Mountain Silverbell



American Hophornbeam

\*All park trees selected from City of Pittsburgh "Approved Tree Species for Pittsburgh's Parks & Open Spaces" list dated February 26, 2020.





# DESIGN FEATURES- PLANTING

## Trail Understory Planting - Riverview Park Approach



Partially Shaded Roadside Seed Mix  
\*image shown for conceptual purposes only

Primary seed mix components pictured  
to the right.



Little Bluestem (49.7%)



Virginia Wildrye (16.8%)



Echinacea purpurea (9.0%)



Bottlebrush Grass  
(6.5%)



Partridge Pea (3.5%)



Blackeyed Susan (3.0%)



Oxeye Sunflower  
(2.0%)





## **DESIGN FEATURES- BRIDGE**





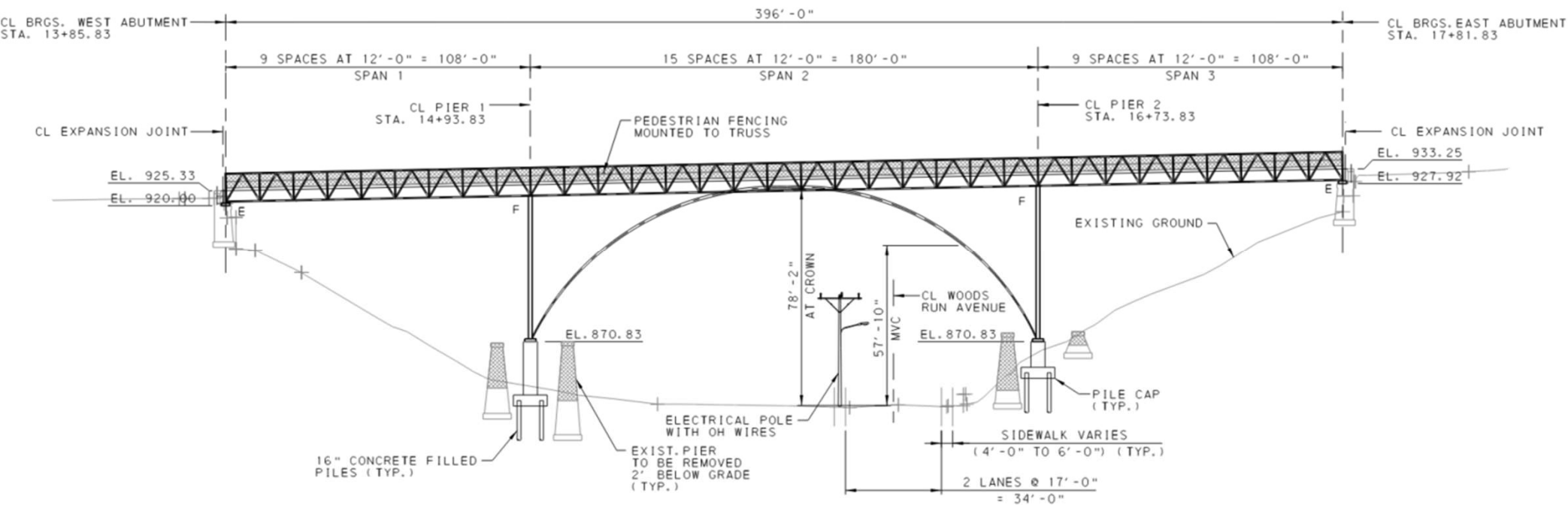


12 ft. wide pathway for  
pedestrian/bicycle  
usage

Steel Truss with  
Weathered Finish

Pedestrian lights set into  
railing

# PRELIMINARY BRIDGE ELEVATION





# FINAL DESIGN BRIDGE ELEVATION

The drawing is a detailed elevation of a three-span truss bridge. The spans are labeled SPAN 1, SPAN 2, and SPAN 3, each with a length of 132'-0" (11 spaces at 12'-0"). The bridge is supported by three piers: CL PIER 1 (STA. 15+17.64), CL PIER 2 (STA. 16+61.64), and CL PIER 3 (STA. 17+55.64). The bridge deck is 34'-0" wide, consisting of two 17'-0" lanes. The structure is a truss with a depth of 66'-0" at the crown. The bridge is shown crossing CL WOODS RUN AVENUE. The drawing includes various elevations: EL. 859.00, EL. 849.00, EL. 861.70, and EL. 846.50. It also shows existing ground, existing piers, and a railing mounted on top of the sidewalk. The bridge is supported by 16" concrete filled piles. The drawing is a technical drawing with dimensions in feet and inches, and elevations in feet above sea level.

CL PIER 1  
STA. 15+17.64

CL PIER 2  
STA. 16+61.64

CL PIER 3  
STA. 17+55.64

11 SPACES AT 12'-0" = 132'-0"  
SPAN 1

11 SPACES AT 12'-0" = 132'-0"  
SPAN 2

11 SPACES AT 12'-0" = 132'-0"  
SPAN 3

66'-0"

66'-0"

66'-0"

NT

13

22

E

F

F

E

EXISTING GROUND

RAILING MOUNTED ON TOP OF SIDEWALK

EXIST. PIER TO BE REMOVED 2' BELOW GRADE (TYP.)

EXISTING PIER PREVIOUSLY REMOVED (TYP.)

EL. 859.00

EL. 849.00

EL. 861.70

EL. 846.50

ELECTRICAL POLE WITH OH WIRES

CL WOODS RUN AVENUE

16" CONCRETE FILLED PILES (TYP.)

75'-9" AT CROWN

66'-10" MVC

SIDEWALK VARIES (4'-0" TO 6'-0") (TYP.)

2 LANES @ 17'-0" = 34'-0"

## Decorative steel arch elements

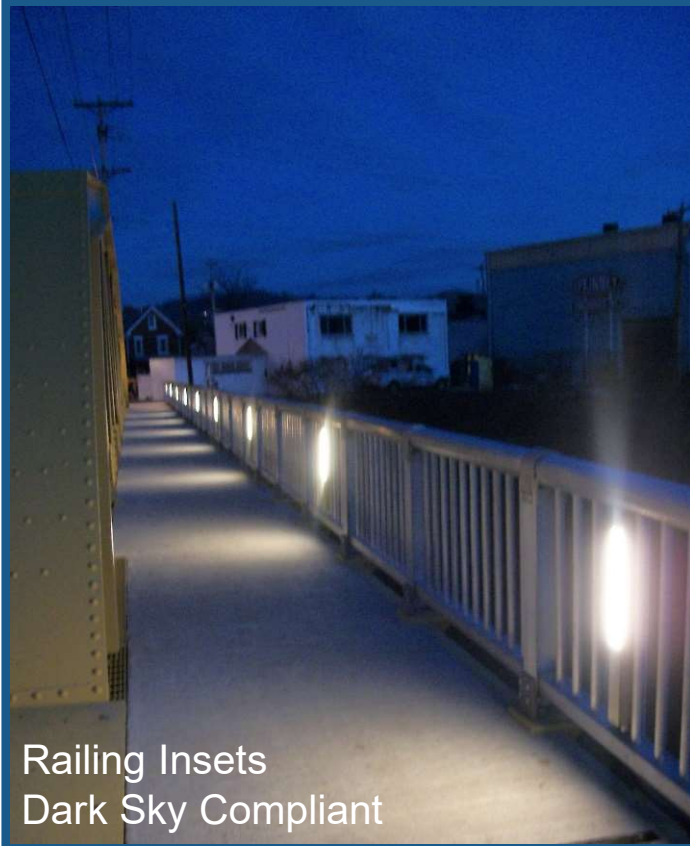






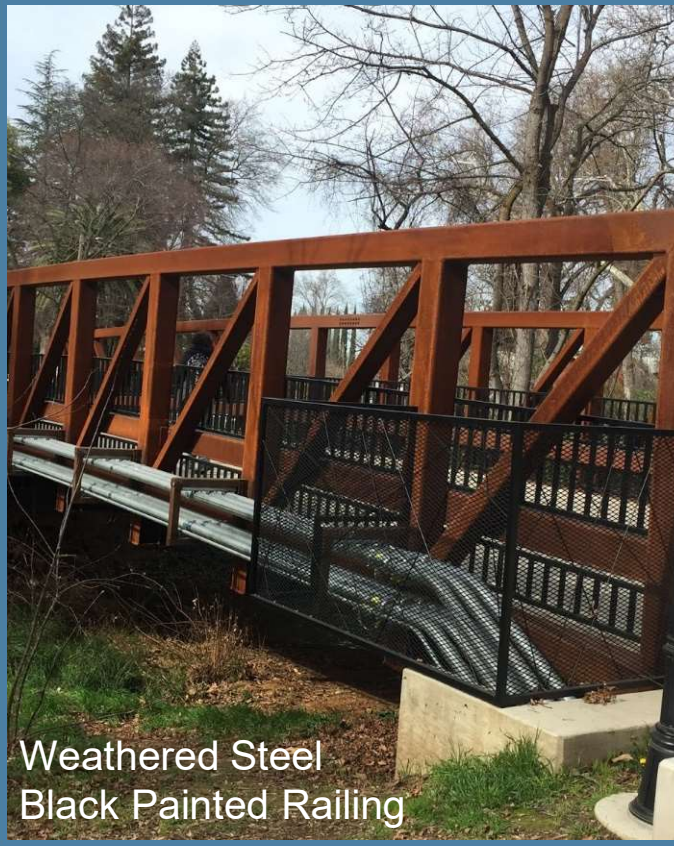
# Bridge Aesthetic Features

## Bridge Lighting



Railing Insets  
Dark Sky Compliant

## Finish



Weathered Steel  
Black Painted Railing

## Concrete Formliner



Ashlar Cut Stone  
\*final formliner pattern may vary



## **NEXT STEPS AND Q&A**





# NEXT STEPS

## **Final Design:**

- Finalize design plans, details, specifications and estimate
- Artist Coordination
- Advertise to contractors and select a bid
- Pre-Construction announcement

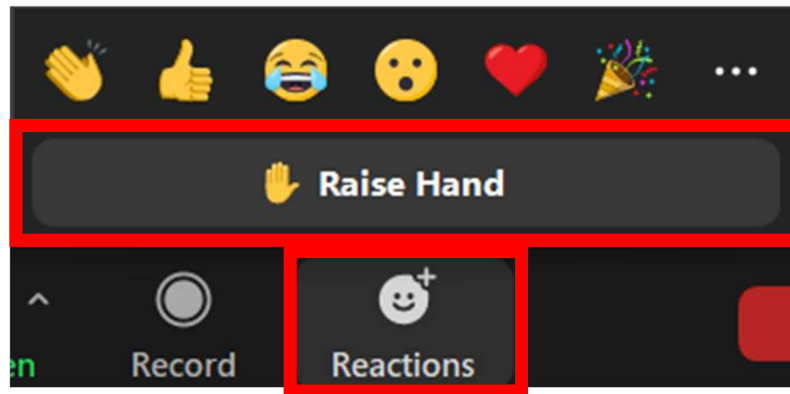
## **Construction:**

- Start construction Spring 2023
- Conclude construction Fall 2023

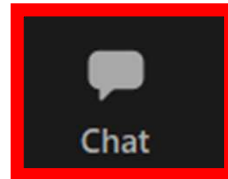


# Q&A AND FEEDBACK

- Click the “Raise Hand” button if you’d like to ask a question or provide a comment:



- Type your question into Chat:



- Email your question or comment: [rwhittington@hntb.com](mailto:rwhittington@hntb.com)





# Thank you for your attendance and feedback!

## Contact Information

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[zachary.workman@pittsburghpa.gov](mailto:zachary.workman@pittsburghpa.gov)

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[rwhittington@hntb.com](mailto:rwhittington@hntb.com)

## Project Updates

<https://engage.pittsburghpa.gov/davis-avenue-bridge>

