Carnegie Mellon University Forbes Avenue Bridge Sidewalk Improvements Community Listening Session November 6, 2023



Existing Conditions

Discussion

- Main concerns with bridge
 - Narrow sidewalks
 - Deteriorated fencing
 - Inadequate lighting





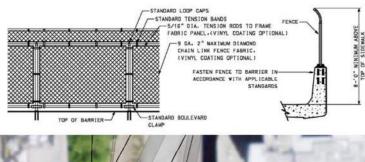
Design Constraints

- Bridge condition
- Right-of-way
- Railroad regulations
- Crash proof barrier

V. PROTECTIVE FENCING:

All highway structures including controlled access highways shall have a protective barrier fence to extend at least 8'-0" from the top of the sidewalk or driving surface adjacent to the barrier wall. The fence may be placed on top of the barrier wall. The fence shall be capable of preventing pedestrians from dropping debris onto CSX's right-of-way, and in particular, passing trains.

Openings in the fence hall not exceed 2" x 2". Fencing should also include anti-climbshields or be of a configuration to minimize the likelihood of climbing on the outside of the protective fencing. A chain link fence option is shown below:









Inspections

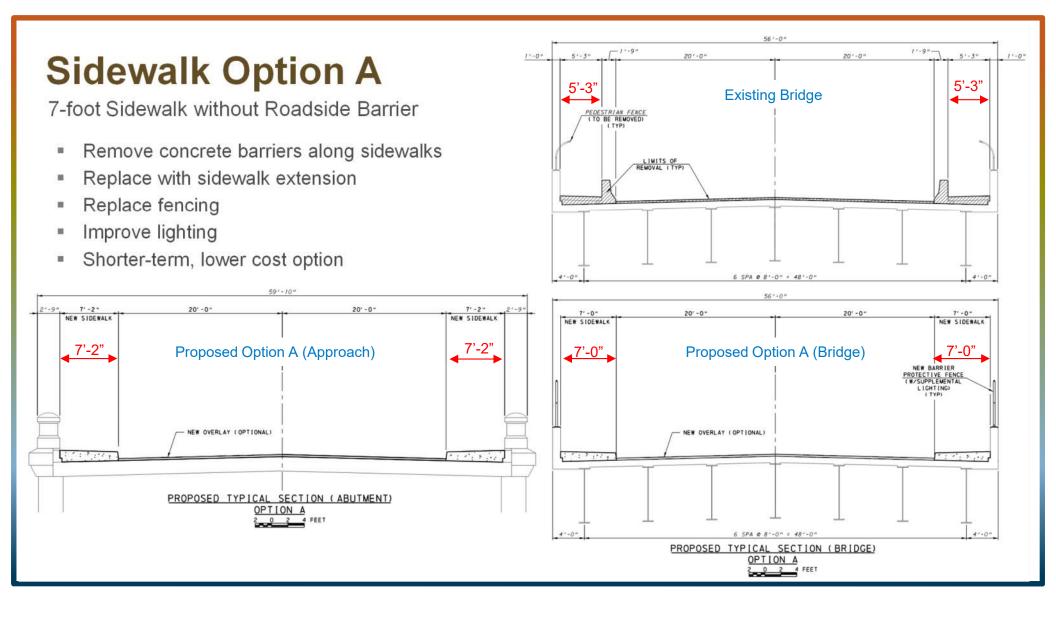
Inspection Date 1/1/22 Deck Satisfactory

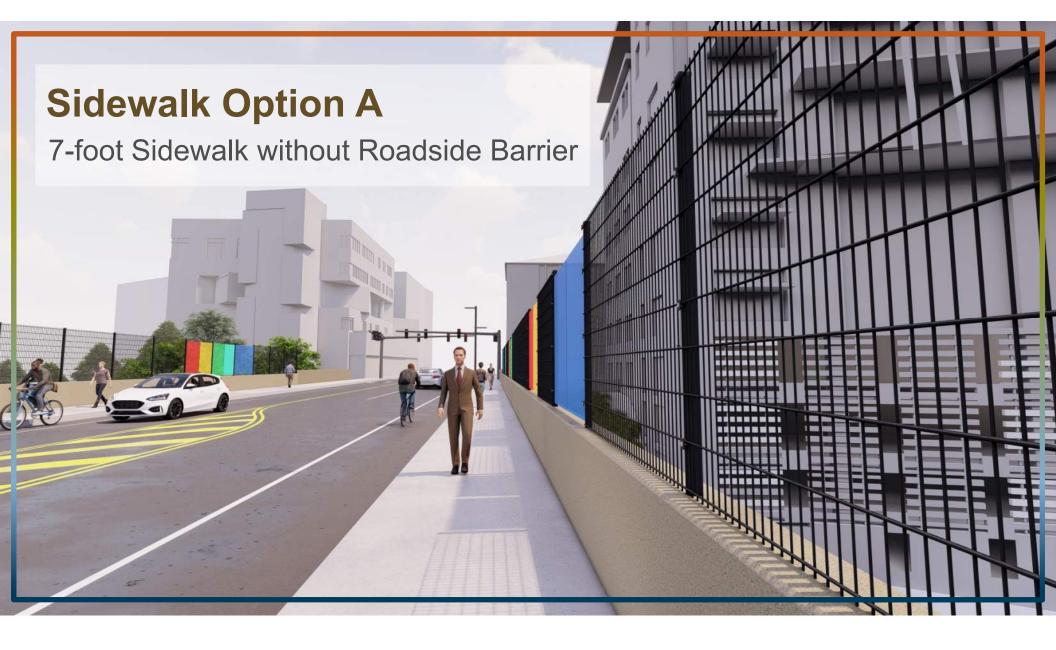
Overall Condition Fair Superstructure

Substructure Good

Good Rating 94.9











9-foot Sidewalk with Roadside Barrier & Outriggers

- Install outriggers to widen sidewalk
- Replace existing concrete barrier in kind

63 -4%

Proposed Option B (Approach)

PROPOSED TYPICAL SECTION (ABUTMENT)

NEW OVERLAY (OPTIONAL)

1'-8% " BARRIER-

20' -0

- Replace fencing
- Improve lighting

9'-0" NEW SIDEWALK

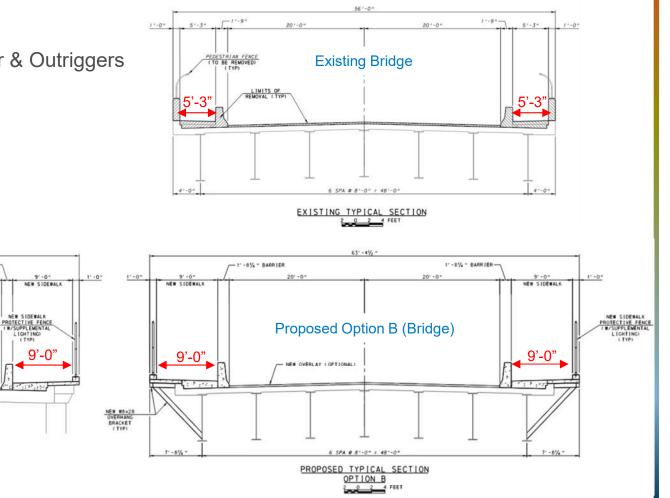
9'-0"

1--0-

-1' +81/4 " BARRIER

Longer-term, higher-cost option

20' -0



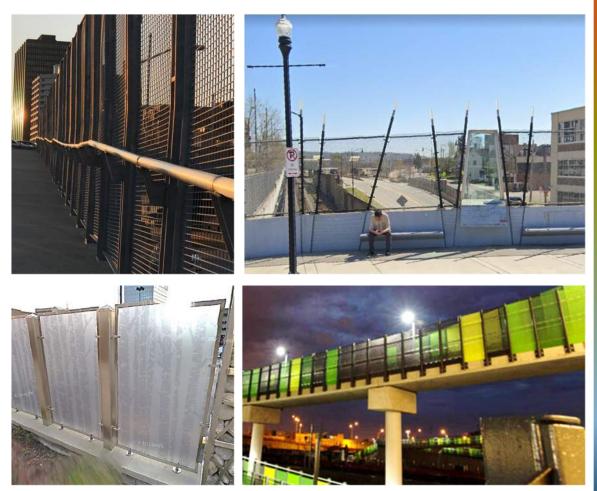


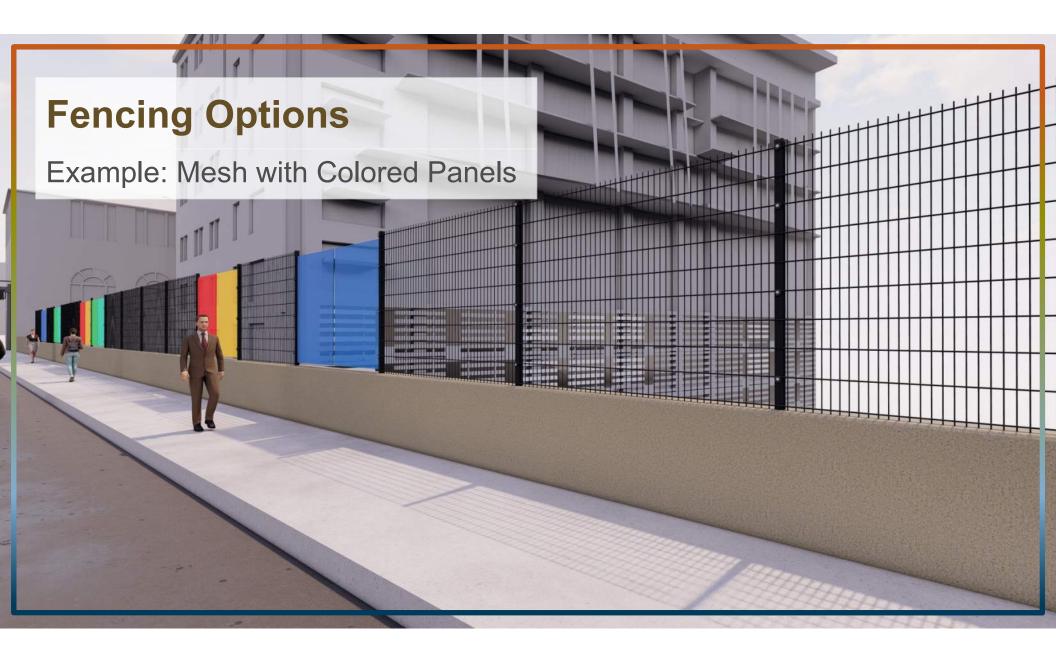


Fencing Options

Traditional Mesh

- More attractive than chain link
- Straightforward design used elsewhere in Pittsburgh
- Colored or stamped plexiglass panels could add more interest
- Lighting elements can be added to fenceposts





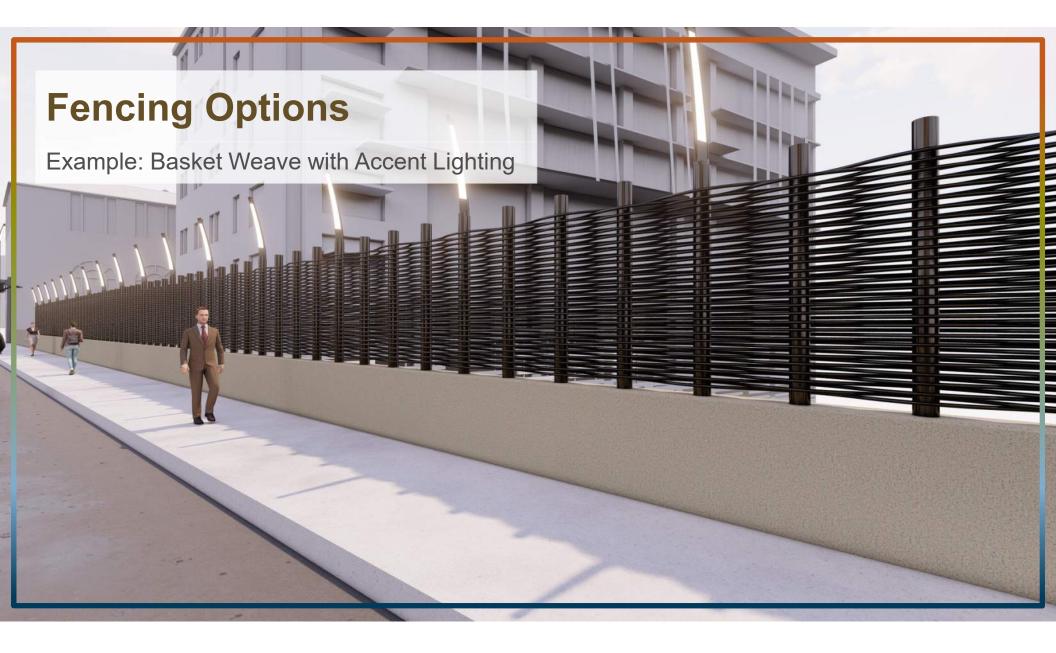


Fencing Options

Decorative Mesh

- Aesthetic mesh patterns
- 2"x2" maximum opening limits possibilities
- Unique design opportunities
- Lighting elements can be added



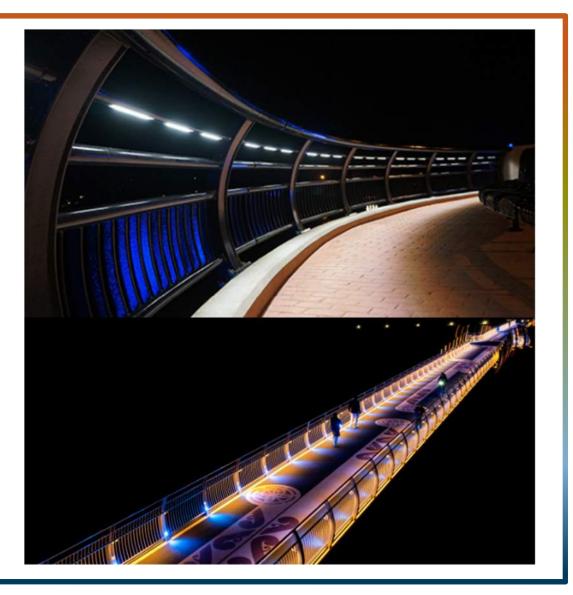


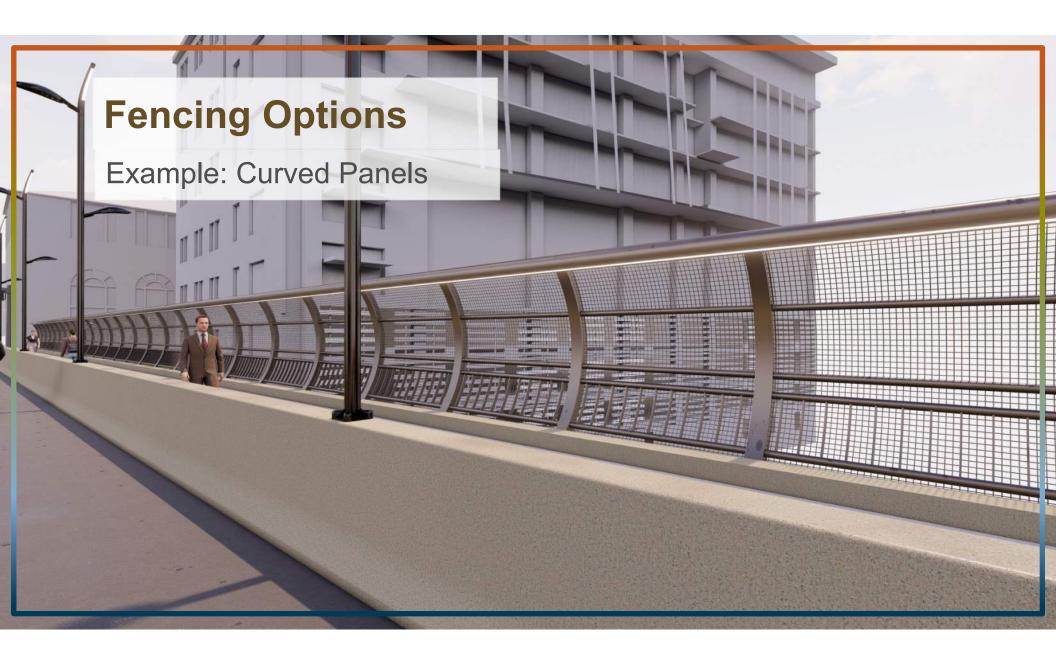


Fencing Options

Curved Panels

- Curved fencing increases pedestrian shoulder room
- Lighting elements can be recessed into fencing
- Possible right-of-way and railroad limitations







Anticipated Schedule

- November 10th Last day for public survey <u>https://www.cmu.edu/cdfd/buildings/forbes-bridge/index.html</u>
- Winter 2024 Refine conceptual design from public involvement
- 2025 Engineering design (if funded)
- 2025 Set schedule based on coordination with other projects
- 2026-27 Earliest construction timeframe (if funded)



Discussion

https://www.cmu.edu/cdfd/buildings/forbes-bridge/index.html

