

# Colorado Street Bridge – Suicide Mitigation Enhancements Temporary Mock-up Panels

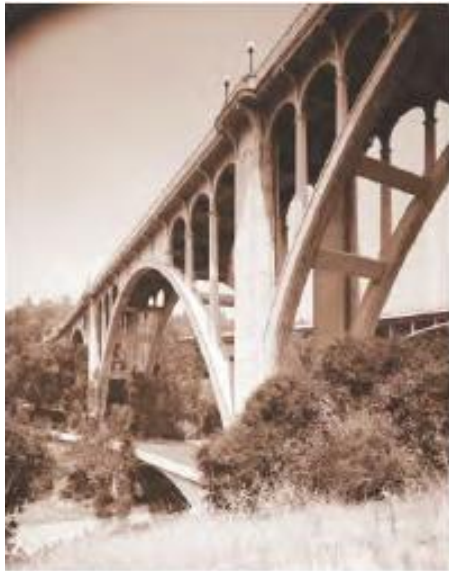
City Council  
September 16, 2020  
Item #9





# Project Background

## Department of Public Works



- November 19, 2019 – Historic Preservation Commission (Advisory Review) – unanimously favored mesh over rods/pickets and agreed that full-scale mock-ups should be constructed in order to more adequately assess the options
- November 26, 2019- Design Commission (Advisory Review) – preferred mesh over pickets, agreed that alcoves should remain open, and that full-scale models should be constructed for better visualization and evaluation
- February 3, 2020, Public Safety Committee (Informational Item) – directed staff to fabricate and install full-scale mock-ups on the bridge for public viewing. Return to Committee to present public comments received.



# Project Meetings

Department of Public Works

- September 9, 2019 – Stakeholder Meeting
- September 26, 2019 – Community Meeting – Solicit comments and public input
- October 29, 2019 – Community Meeting – Present various concepts and solicit feedback
- November 15, 2019 – Pasadena Heritage and stakeholders
- November 19, 2019 – Historic Preservation Commission (Advisory Review)
- November 26, 2019 – Design Commission (Advisory Review)
- February 3, 2020 – Public Safety Committee



# Community Consensus

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- Keep all alcoves open
- Position the barrier on top of the existing balustrade
- Position the barrier on the bridge side of the light poles (in front of light posts) to increase effectiveness
- Keep the existing light fixture but modify the height to maintain visibility on the bridge



# Barrier Mock-up Installation

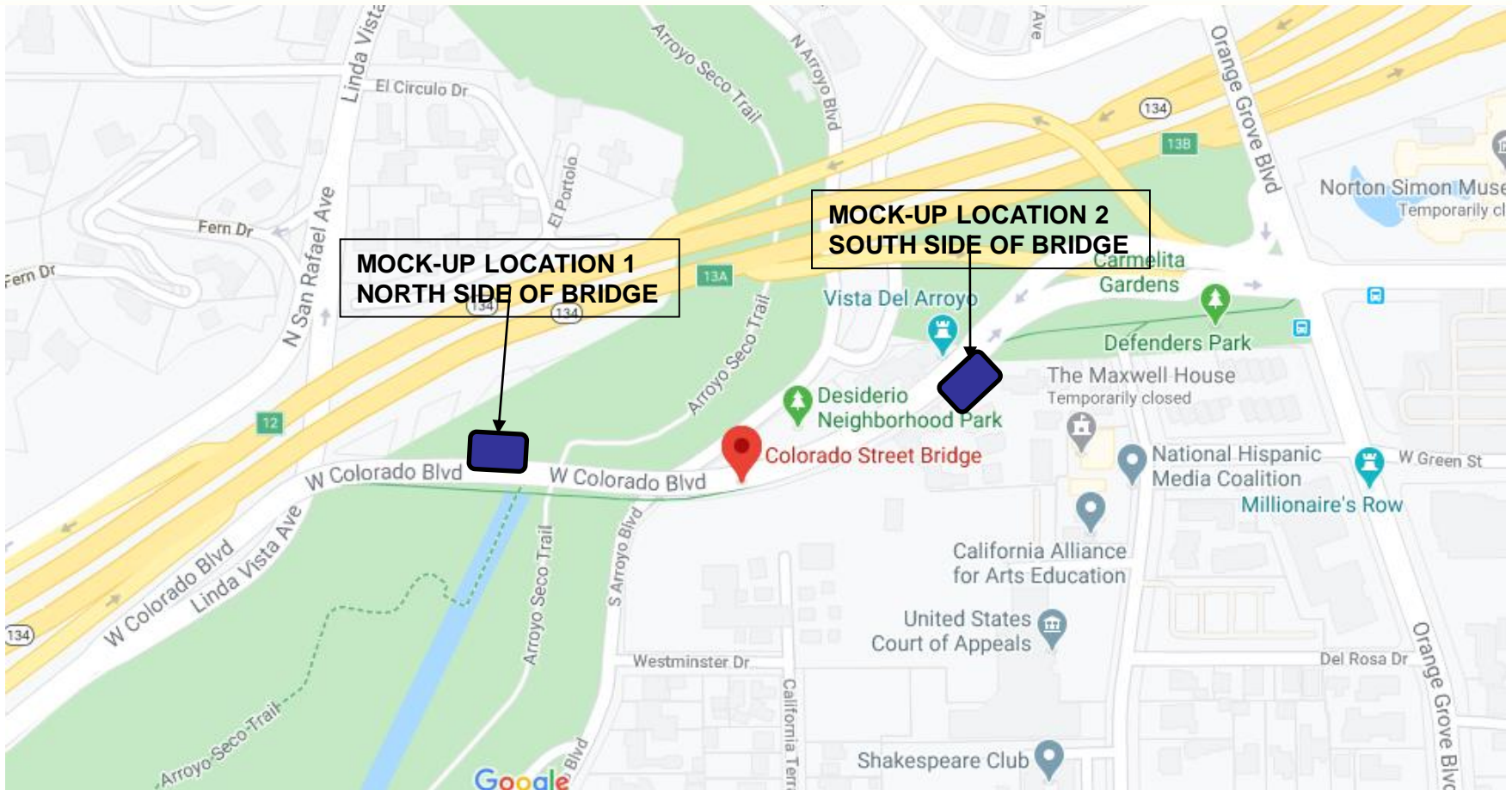
## Department of Public Works

- Three design options chosen for mock-up fabrication, displaying two types of mesh patterns
- Install a total of five (5) full-size temporary mock-up panels at two locations on the bridge that are independently supported on top of the bridge balustrade
- Adjust existing bridge light poles to accommodate panels
- Weave existing temporary fence with mock-up installation to maintain continuous vertical barrier
- Mock-up displayed for two to three weeks for public viewing and survey
- Once community viewing period has passed, uninstall mock-up panels and return bridge to existing conditions



# Mock-up Locations

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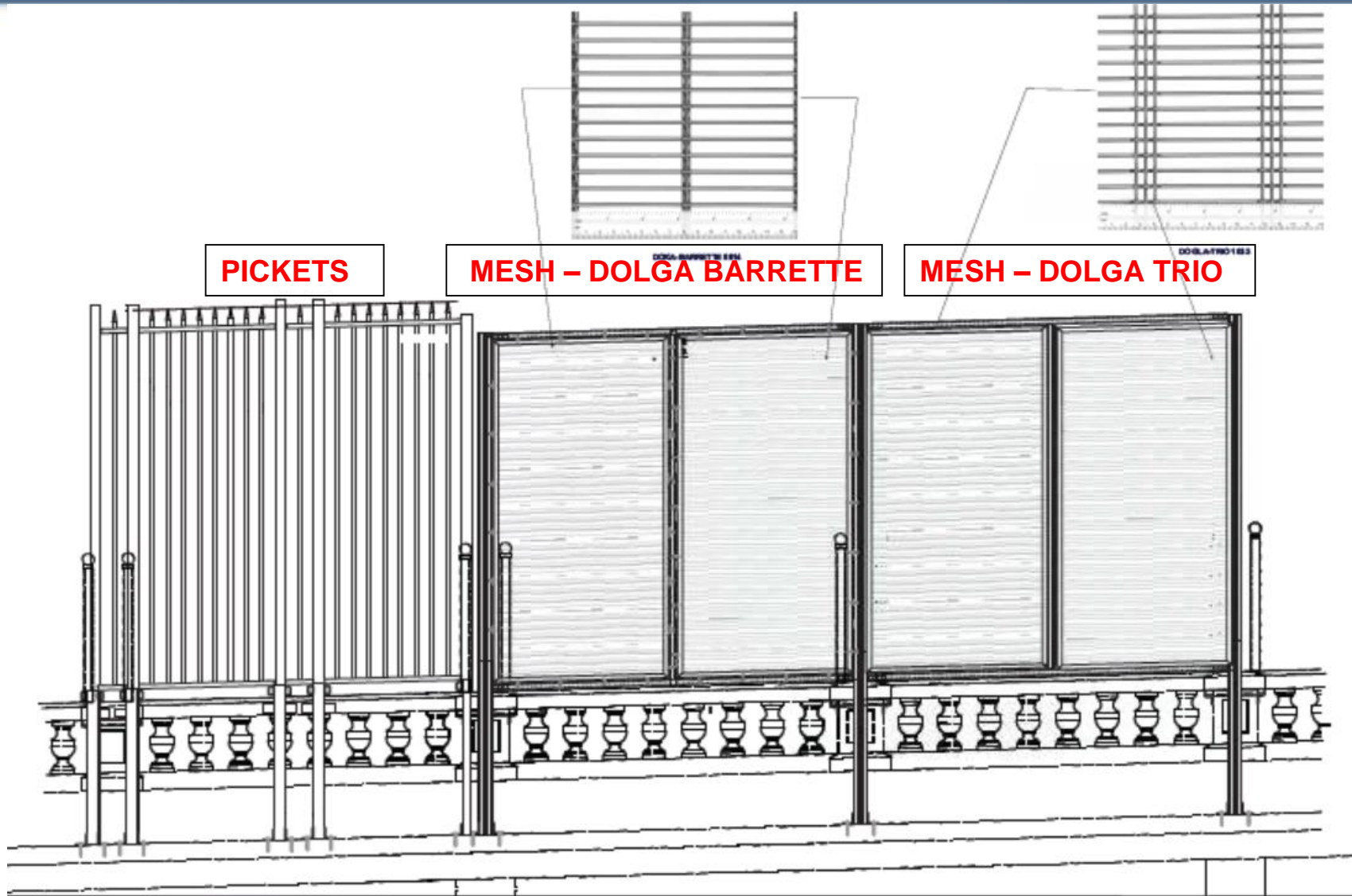






# Location 1 – Mid-Span, North Side

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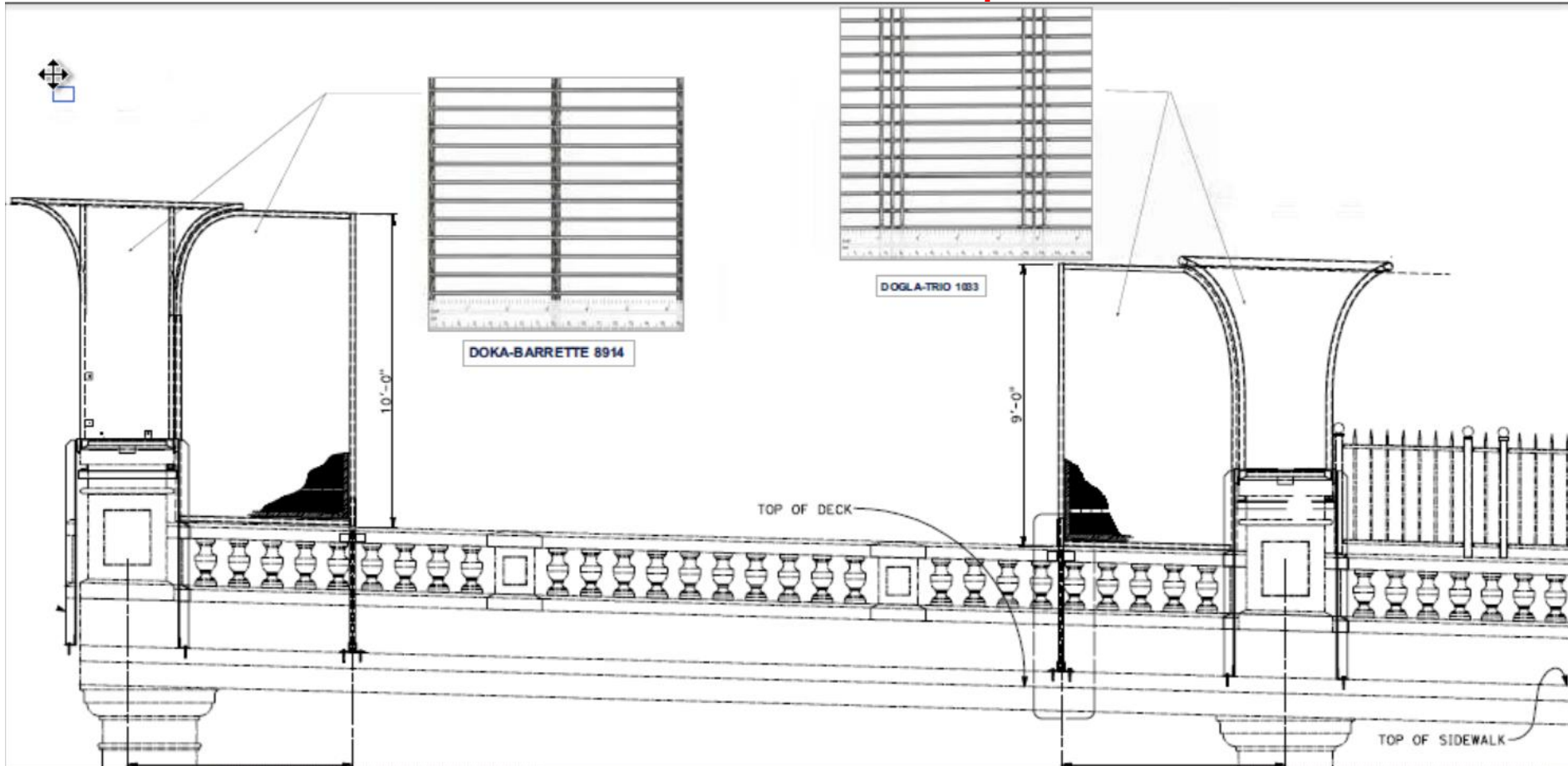


# Location 2 – East End, South Side

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**Option A – Curved-Straight**

**Option B – Curved-Curved**







# Option A – Mesh (Curved-Straight)

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- Straight barrier over the spans between the alcoves and curved barrier at the alcoves
- Barrier is made of stainless steel mesh
- Light poles will need to be lengthened 3' to accommodate barrier

**VIEW FROM THE BRIDGE**



# Option A – Mesh (Curved-Straight)

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**VIEW OF THE BRIDGE**



# Option B – Mesh (Curved-Curved)

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**VIEW FROM THE BRIDGE**

- Barrier curves inward towards the bridge between and at the alcoves
- Barrier is made of stainless steel mesh
- Light poles will need to be lengthened 1' to accommodate barrier





# Option B – Mesh (Curved-Curved)

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**VIEW OF THE BRIDGE**



# Option C – Pickets (Straight-Straight)

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- Straight barrier over the spans between and at the alcoves
- Barrier is made of pickets
- Requires horizontal member at the base of panels to provide structural support, which could be used as a foothold, thus pedestals lowered to maintain effectiveness
- Light poles lengthened 3'-7"

VIEW FROM THE BRIDGE





# Option C – Pickets (Straight-Straight)

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**VIEW OF THE BRIDGE**



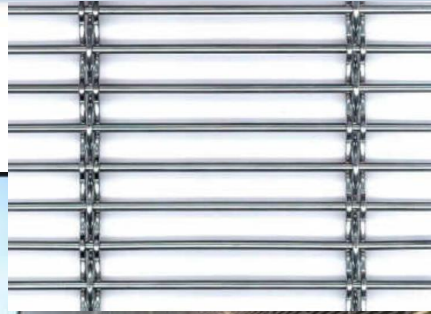
# Materials

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## MESH

- Low maintenance, provides good transparency, eliminates handholds and footholds



MESH - DOLGA BARRETTE



## PICKETS

- Fairly transparent, but can produce “stacking effect” when at an angle

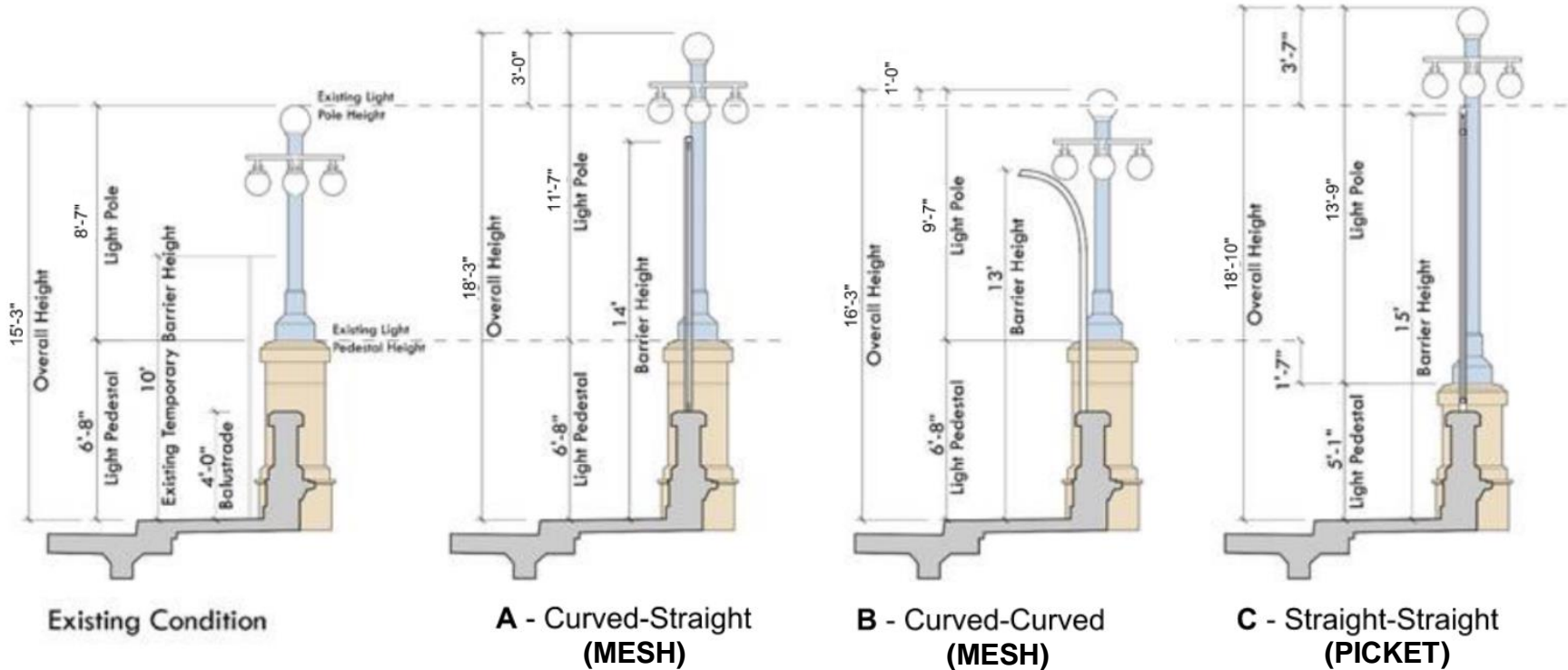


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# Comparison of Options

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# Cost Comparison of Options

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- Preliminary total cost if fully implemented on the Colorado Street Bridge

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<b>Option A – Curved lamp post treatments at alcoves with straight stainless steel mesh for length of bridge</b>	<b>\$ 4.4 Million</b>
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<b>Option B – Curved lamp post treatments at alcoves with curved stainless steel mesh for length of bridge</b>	<b>\$ 4.6 Million</b>
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<b>Option C – Straight pickets at alcoves and length of bridge</b>	<b>\$ 2.5 Million</b>
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- Based on Public Safety Committee's inquiry, the project team assessed the cost of an additional design option that would fully enclose the bridge via arched fencing extending from side to side along the length of the bridge. Based on preliminary evaluation, full enclosure of the bridge is estimated to cost approximately \$5 Million.
- These estimates are preliminary and rough until material selection and detailing are finalized.





# Next Steps

Department of Public Works

DESCRIPTION	DATE
Full-Scale Mock-Up Installation	November 2020
Viewing Period/Gather Public Opinion through Survey Monkey	November 2020
Historic Preservation Commission: Follow-Up Review	November 2020
Design Commission: Follow-Up Review	December 2020
Public Safety Committee/ City Council: Design Recommendation and Approval	December 2020/January 2020





# Recommendation

## Department of Public Works

- Find the contract proposed herein to be categorically exempt under the California Environmental Quality Act (CEQA) Guidelines in accordance with Title 14, Chapter 3, Article 19, Section 15301, Class 1 – *Existing Facilities* and that there are no features that distinguish this project from others in the exempt class, and therefore, there are no unusual circumstances;
- Authorize the City Manager to enter into a purchase order contract for an amount not to exceed \$160,210 which includes the base contract amount of \$150,210, and a contingency of \$10,000 to provide for any necessary change orders with Custom Design Iron Works, Inc. for the fabrication and installation of temporary mock-up panels for Colorado Street Bridge – Suicide Mitigation project. Competitive bidding is not required pursuant to City Charter Section 1002 (F) contracts for professional or unique services;
- Grant the proposed purchase order contract an exemption from the competitive selection process pursuant to Pasadena Municipal Code Section 4.08.049(B), contracts for which the City's best interests are served.