

Northern Avenue Bridge Mayoral Advisory Task Force May 2019 Meeting

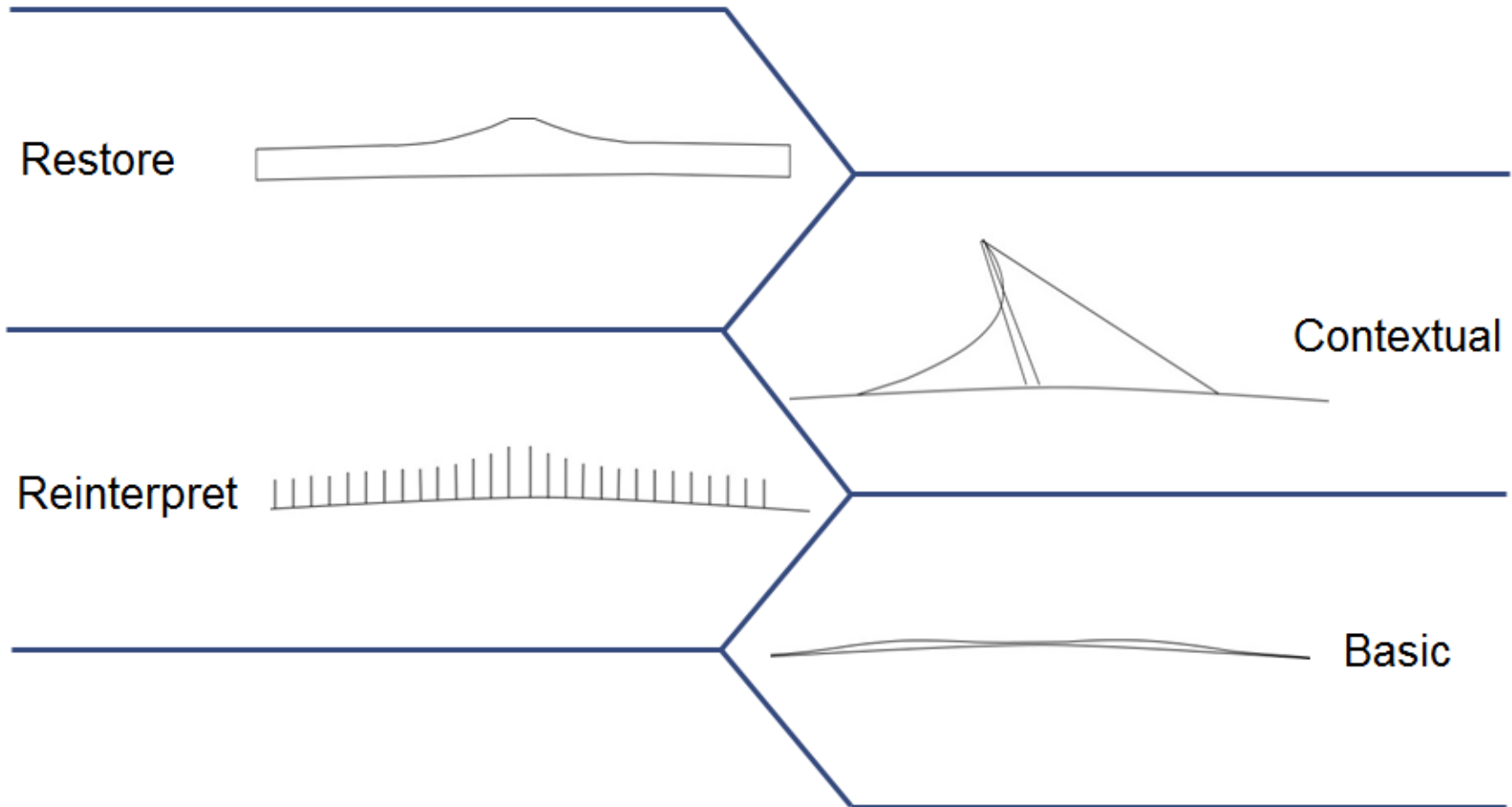


May 23, 2019

- **Welcome and Approval of Meeting Minutes, April 25, 2019**
- **Options Presented in April**
- **Additional Options**
- **Schedule and Next Steps**
- **Discussion and Questions**

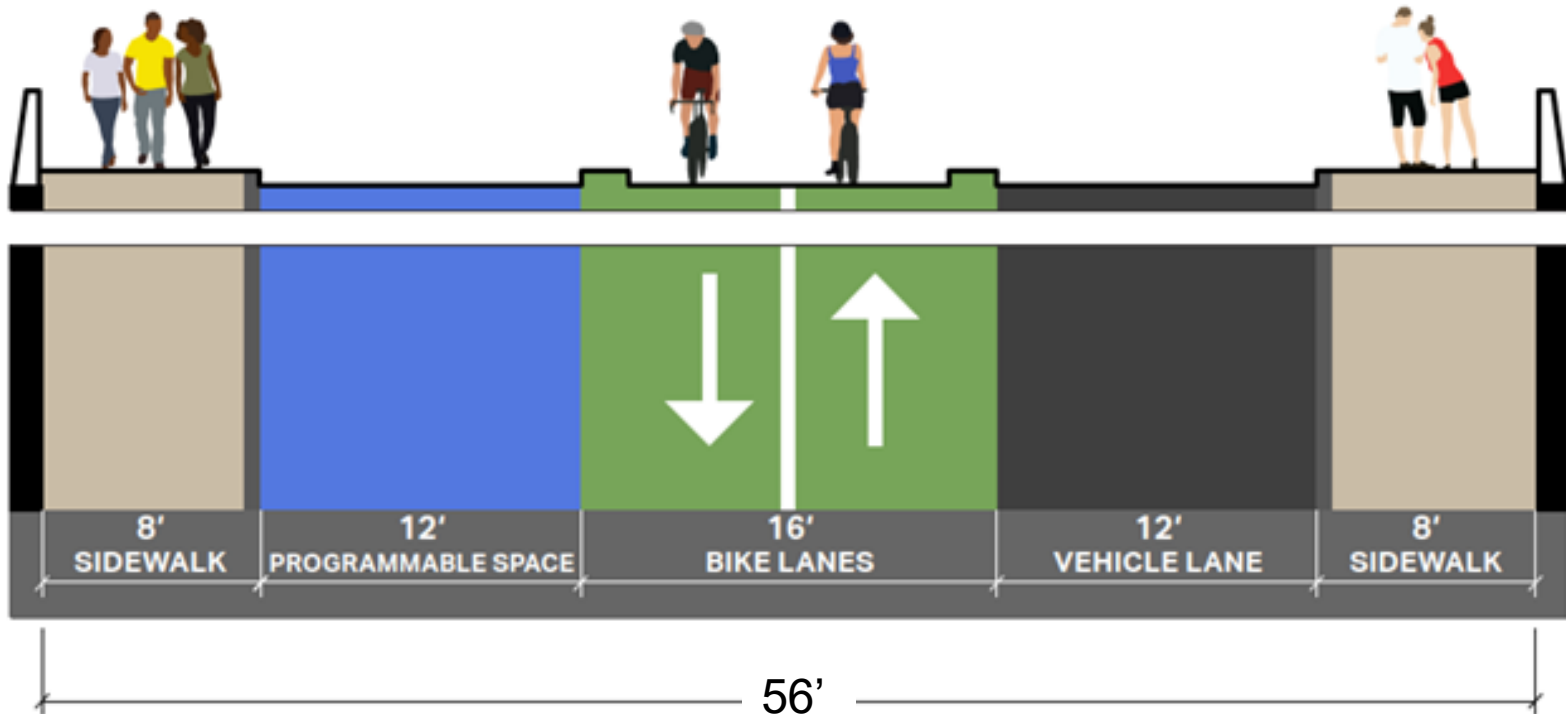
PREVIOUSLY PRESENTED OPTIONS STYLES

Four Styles presented in April

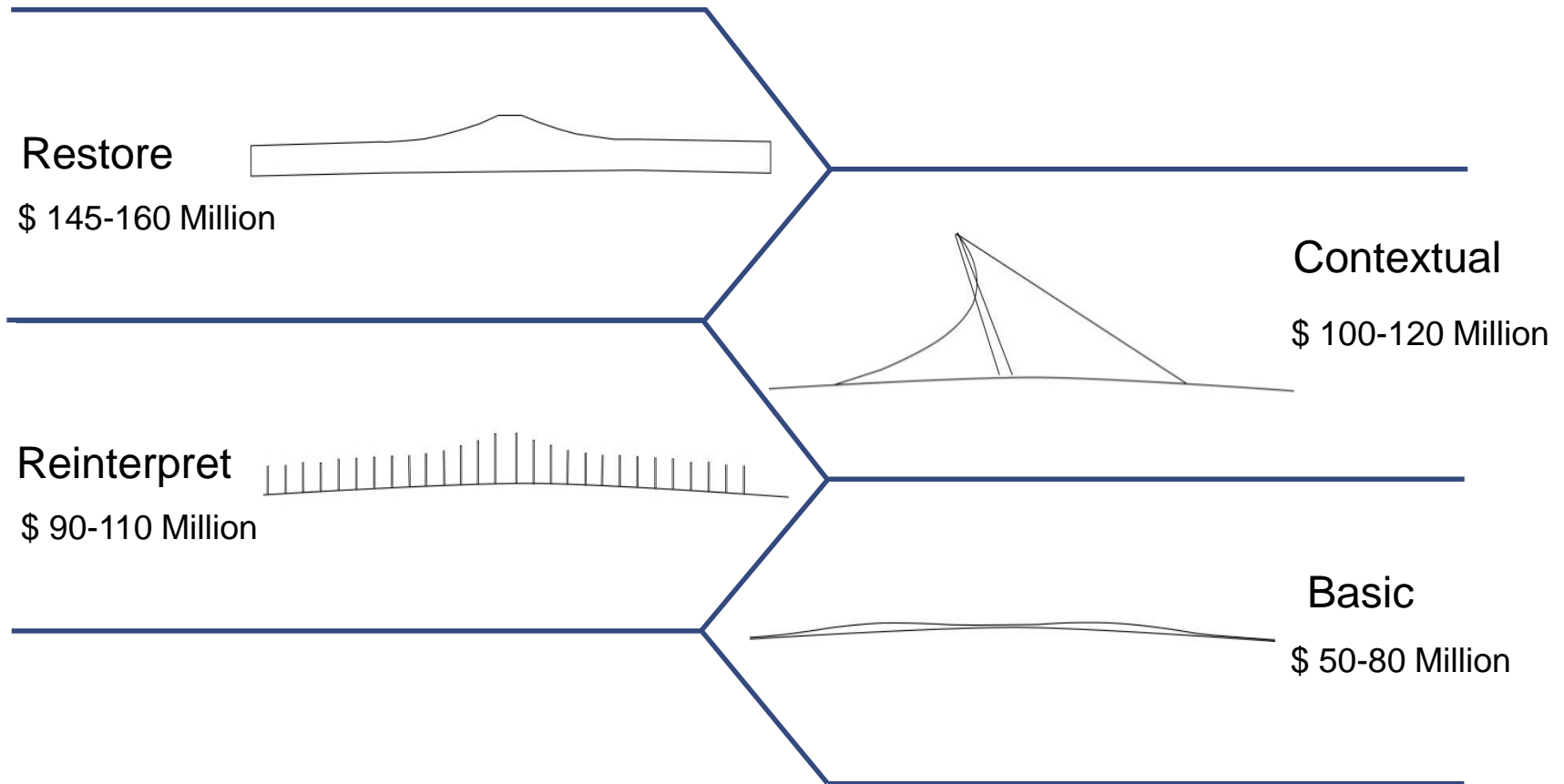


PREVIOUSLY PRESENTED OPTIONS SIZE

56 FT WIDE



Costs for the 4 Options were presented



56 FT SIZE OPTIONS

COSTS			
Min Clear Width:	56 Feet		
Out to Out Width:	65 Feet		
Approximate SF:	44,200		
	BRIDGE STYLE		
	Basic	Reinterpret	Contextual
“Sunk” Costs			
Removal	\$ 20 M	\$ 20 M	\$ 20 M
Foundation Reuse	\$ 10 M	\$ 20 M	\$ 25 M
Approaches	\$ 15 M	\$ 15 M	\$ 15 M
Sub-Total	\$ 45 M	\$ 55 M	\$ 60 M
Bridge Superstructure	\$ 20 M	\$ 45 M	\$ 50 M
Total	\$ 65 M	\$ 100 M	\$ 110 M

56 FT WIDE OPPORTUNITIES & CHALLENGES

56 FT WIDE

OPPORTUNITIES

Dedicated bicycle and pedestrian usage (suitable for projected volumes)

Adequate width for emergency vehicles

Allows for vehicular lane and programming space

Most flexible for future temporary or permanent needs

CHALLENGES

Reduced bicycle/pedestrian experience due to possible motorized vehicles

- Bicycle and Pedestrian Accommodation
- Emergency Vehicle Access



- Shared use paths can accommodate low volumes of pedestrians and bicycles with widths as small as 12 feet
- Some Local examples include the Markey Bridge (Wonderland- Revere), North Bank Bridge (Charlestown)



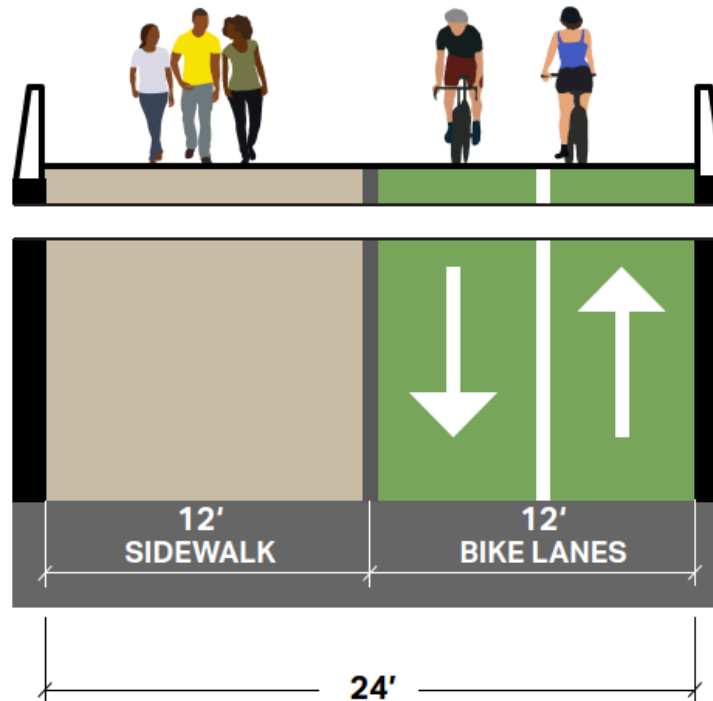
12 FT WIDE OPPORTUNITIES & CHALLENGES

12 FT WIDE	
OPPORTUNITIES	CHALLENGES
Bicycle/pedestrian only experience (i.e. no motorized vehicles)	Too narrow for pedestrian and bicycle volumes (i.e. lack of dedicated lanes)
	Too narrow for emergency vehicles
	No vehicle or programming dedicated lanes
	Provides no flexibility for future temporary needs

12 FT SIZE OPTIONS

COSTS			
Min Clear Width:	12 Feet		
Out to Out Width:	16 Feet		
Approximate SF:	10,900		
	BRIDGE STYLE		
	Basic	Reinterpret	Contextual
“Sunk” Costs			
Removal	\$ 20 M	\$ 20 M	\$ 20 M
Foundation Reuse	\$ 7 M	\$ 10 M	\$ 18 M
Approaches	\$ 7 M	\$ 7 M	\$ 7 M
Subtotal	\$ 34 M	\$ 37 M	\$ 45 M
Bridge Superstructure	\$ 6 M	\$ 20 M	\$ 28 M
Total	\$ 40 M	\$ 57 M	\$ 73 M

- Allows dedicated bicycle and pedestrian lanes to support the high projected volumes
- Configuration of pedestrians and bikes could be re-arranged



24 FT WIDE OPPORTUNITIES & CHALLENGES

24 FT WIDE

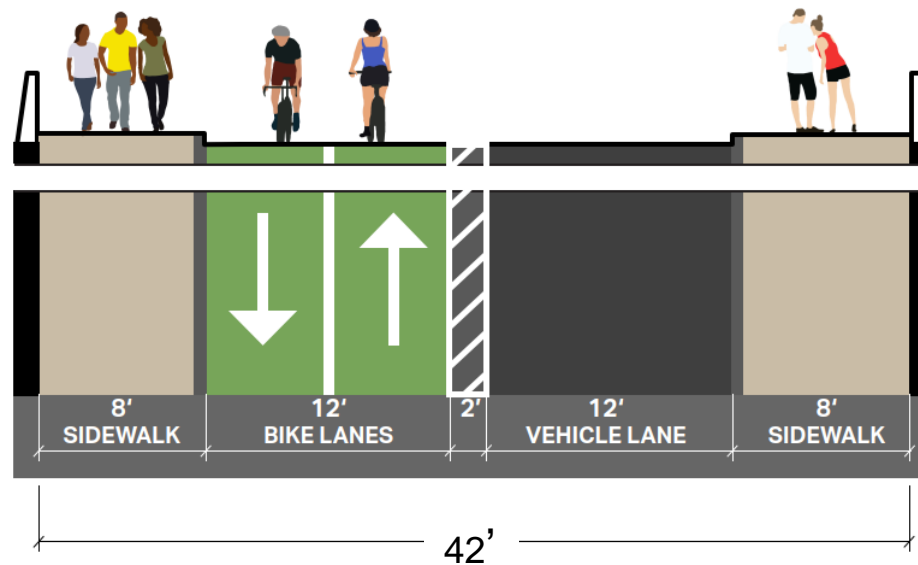
OPPORTUNITIES	CHALLENGES
Bicycle/pedestrian only experience (i.e. no motorized vehicles)	No dedicated vehicle lane
Dedicated bicycle and pedestrian usage (suitable for projected volumes)	No dedicated programming space
Improved width for emergency vehicles	
Limited flexibility for future temporary needs	

24 FT SIZE OPTIONS

COSTS			
Min Clear Width:	24 Feet		
Out to Out Width:	28 Feet		
Approximate SF:	19,040		
	BRIDGE STYLE		
	Basic	Reinterpret	Contextual
“Sunk” Costs			
Removal	\$ 20 M	\$ 20 M	\$ 20 M
Foundation Reuse	\$ 8 M	\$ 12 M	\$ 20 M
Approaches	\$ 8 M	\$ 8 M	\$ 8 M
Subtotal	\$ 36 M	\$ 40 M	\$ 48 M
Bridge Superstructure	\$ 10 M	\$ 28 M	\$ 35 M
Total	\$ 46 M	\$ 68 M	\$ 83 M

Width needed to accommodate one traffic or programming lane now or in the future

- Minimum Width to provide additional flexibility
- Provides separation between bikes and vehicles
- Configuration of space could be re-arranged to suit the architecture and could remain flexible



42 FT WIDE OPPORTUNITIES & CHALLENGES

42 FT WIDE

OPPORTUNITIES

Dedicated bicycle and pedestrian usage (suitable for projected volumes)

Adequate width for emergency vehicles

Provides improved flexibility for future and temporary needs

CHALLENGES

Reduced bicycle/pedestrian experience due to possible motorized vehicles

Too narrow for both programming and vehicle use simultaneously

42 FT SIZE OPTIONS

COSTS			
Min Clear Width:	42 Feet		
Out to Out Width:	46 Feet		
Approximate SF:	31,300		
	BRIDGE STYLE		
	Basic	Reinterpret	Contextual
“Sunk” Costs			
Removal	\$ 20 M	\$ 20 M	\$ 20 M
Foundation Reuse	\$ 10 M	\$ 18 M	\$ 22 M
Approaches	\$ 10 M	\$ 10 M	\$ 10 M
Subtotal	\$ 40 M	\$ 48 M	\$ 52 M
Bridge Superstructure	\$ 16 M	\$ 38 M	\$ 48 M
Total	\$ 56 M	\$ 86 M	\$ 100 M

BRIDGE OPTIONS OPPORTUNITIES & CHALLENGES

SUMMARY

BRIDGE USES	WIDTH			
	12 FT	24 FT	42 FT	56 FT
Shared Use Bike & Ped	✓			
Dedicated Bike & Ped		✓	✓	✓
Emergency Vehicles		✓	✓	✓
Expanded Ped, Bike, Vehicle OR Program			✓	✓
Expanded Bike, Ped, Vehicle & Program				✓

SUMMARY

SIZE	STYLE			
	Basic	Reinterpret	Contextual	Restore
64 FT	-	-	-	\$150
56 FT	\$ 65	\$ 100	\$ 110	-
42 FT	\$ 56	\$ 86	\$ 100	-
24 FT	\$ 46	\$ 68	\$ 83	-
12 FT	\$ 40	\$ 57	\$ 73	-

Costs in \$ Millions

Milestone	Duration Date
Community Meeting	June 3, 2019
June MATF Meeting	June 27, 2019
Design & Permitting	18 Months December, 2020
Construction Contract Award	2021

- For more information about the project and to sign up to receive emails about meetings and updates, please visit the website at <https://www.boston.gov/northern-ave>
- To submit comment or questions, please write the project team at Team@NorthernAveBridgeBos.com