

OLD LYME LIEUTENANT RIVER TRAIL

OLD LYME, CT



Engineers
Improving Life. By Design.



TAVELLA DESIGN GROUP, LLC
LANDSCAPE ARCHITECTS

WILLIAM KENNY ASSOCIATES
LANDSCAPE ARCHITECTURE • ECOLOGICAL SERVICES
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Vote with Coins Exercise
Each visitor was given 25 coins to drop into any of the 9 category bags to vote for which elements were of interest to them. This is the tally from our 2 open houses held June 15th & August 3rd, 2019



108



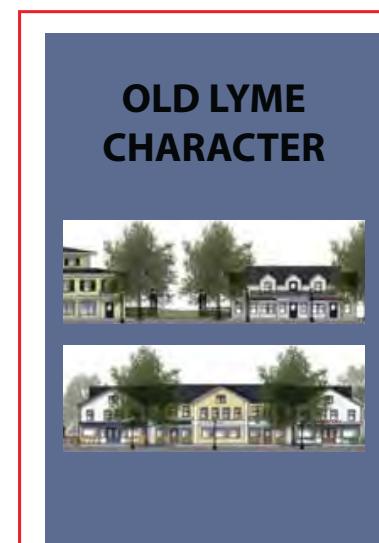
155



86



38



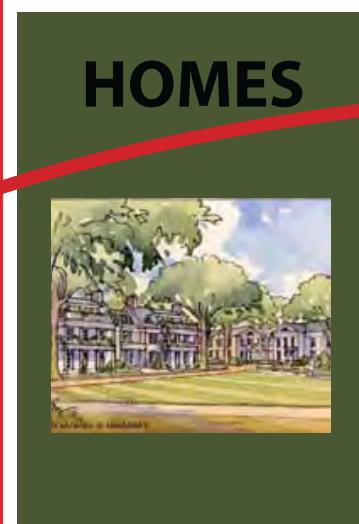
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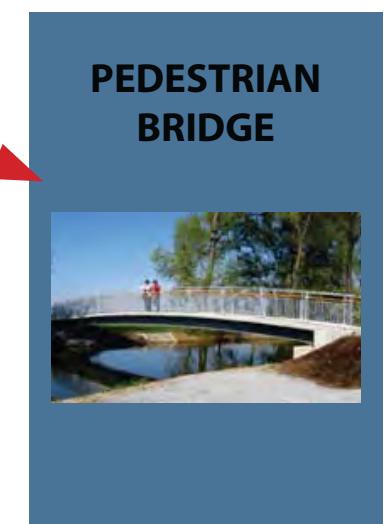
142



90



136

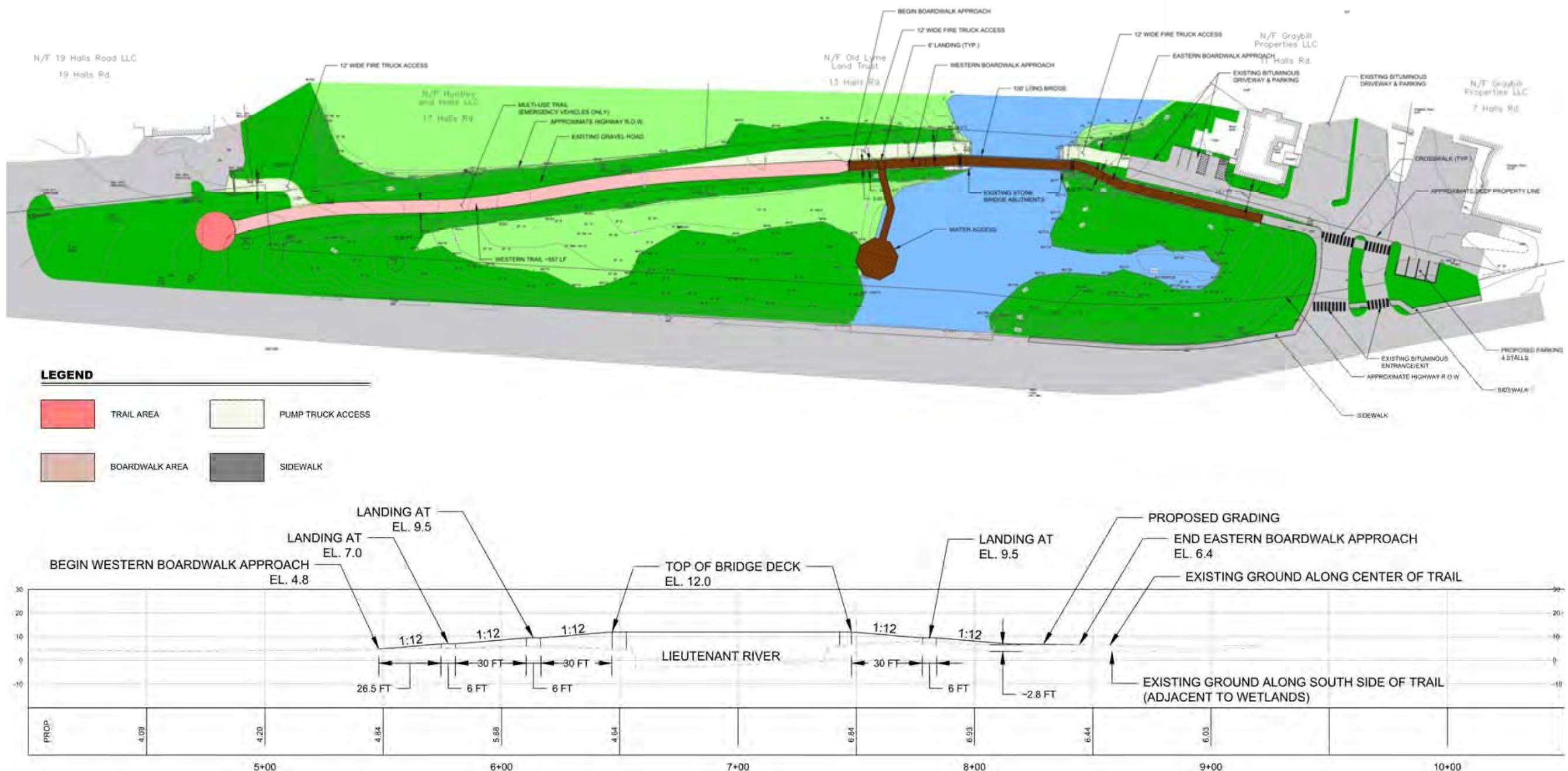


253

The most popular category for the Halls Road Vision Proposal was to build a Pedestrian Bridge

Numbers indicate votes per category

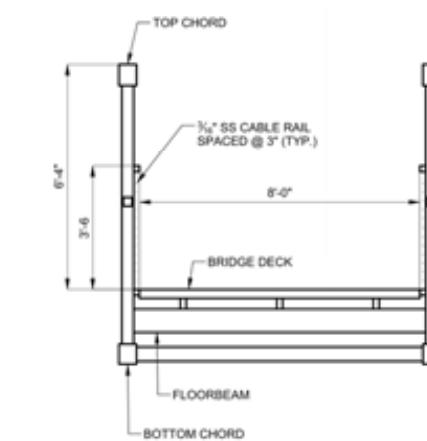
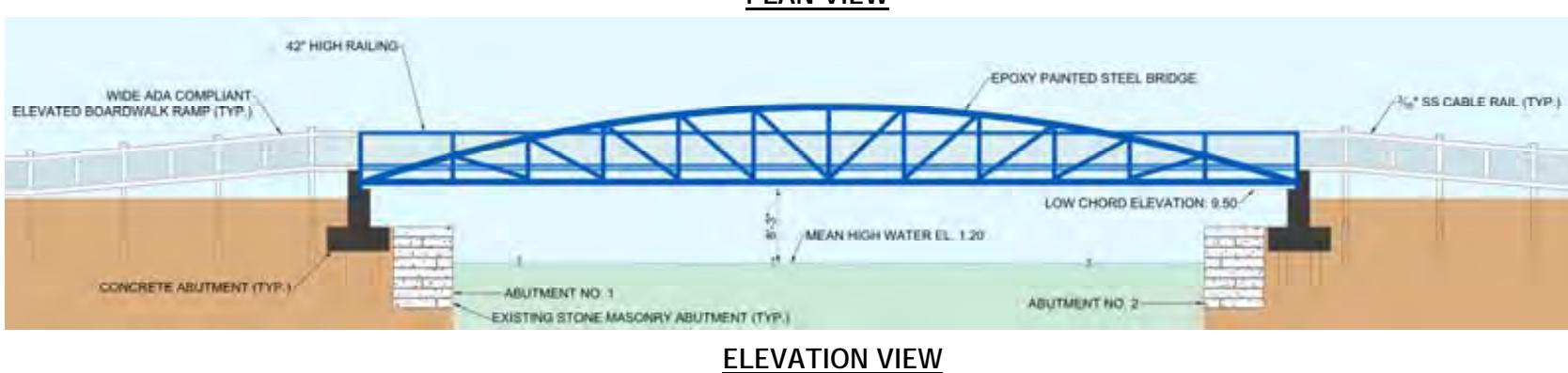
OVERALL TRAIL AND BRIDGE PLAN & PROFILE



GENERAL DESIGN NOTES:

- NEW CONCRETE ABUTMENTS TO BE INSTALLED BEHIND EXISTING STONE ABUTMENTS
- NEW PREFABRICATED BRIDGE WILL BE CRANED INTO PLACE ON NEW ABUTMENTS
- NEW ADA COMPLIANT RAMPS AND BOARDWALKS INSTALLED ON SUPPORT PILES TO MINIMIZE DISTURBANCE
- WIDTH OF BRIDGE IS 8' (CLEAR)
- WIDTH OF BOARDWALKS IS 10' THEN TRANSITIONS TO 8' JUST BEFORE BRIDGE
- BICYCLES ARE ALLOWED ON THE BRIDGE BUT MUST BE WALKED ACCROSS
- ELEVATIONS SHOWN ARE BASED ON "MEAN SEA LEVEL"
- FISHING NOT ALLOWED OFF THE BRIDGE

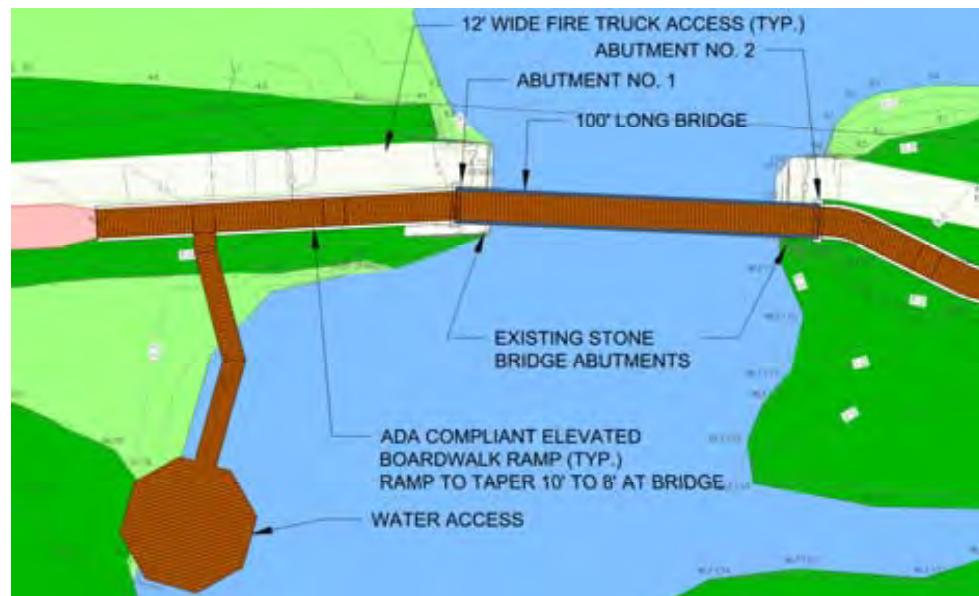
OPTION 'A' - STEEL BOW STRING BRIDGE



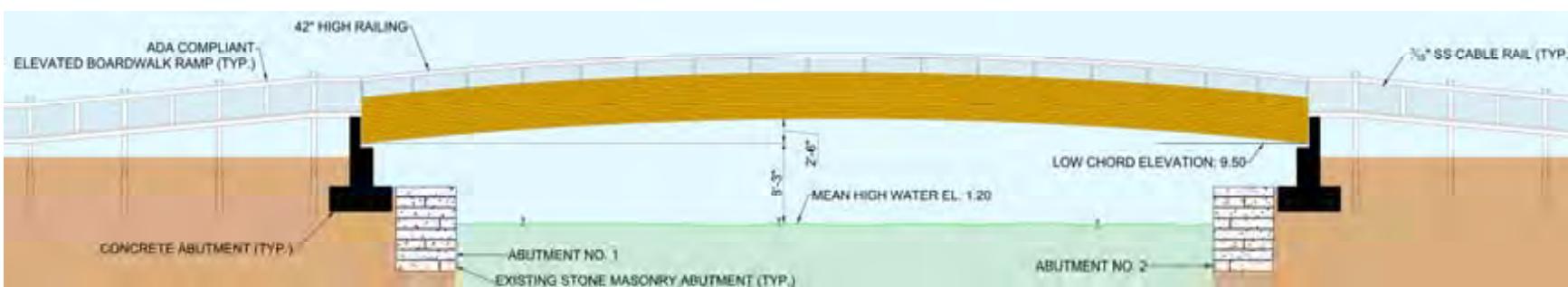
OPTION 'B' - TIMBER GLULAM ARCH BRIDGE



GLULAM GIRDER BRIDGE



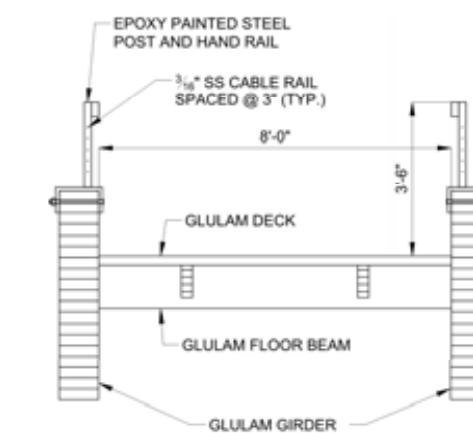
PLAN VIEW



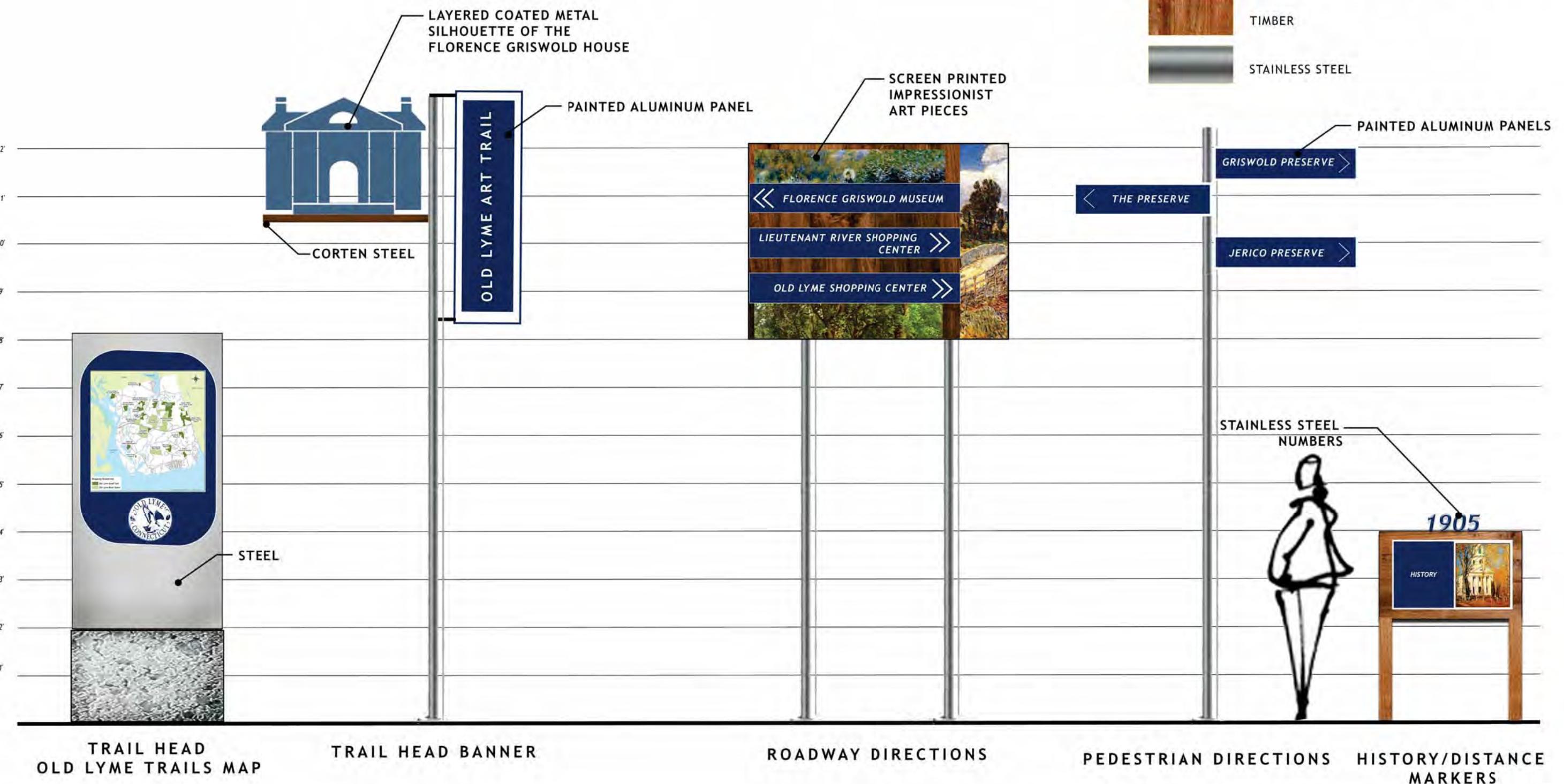
ELEVATION VIEW



EXAMPLE PHOTO



TYPICAL BRIDGE SECTION



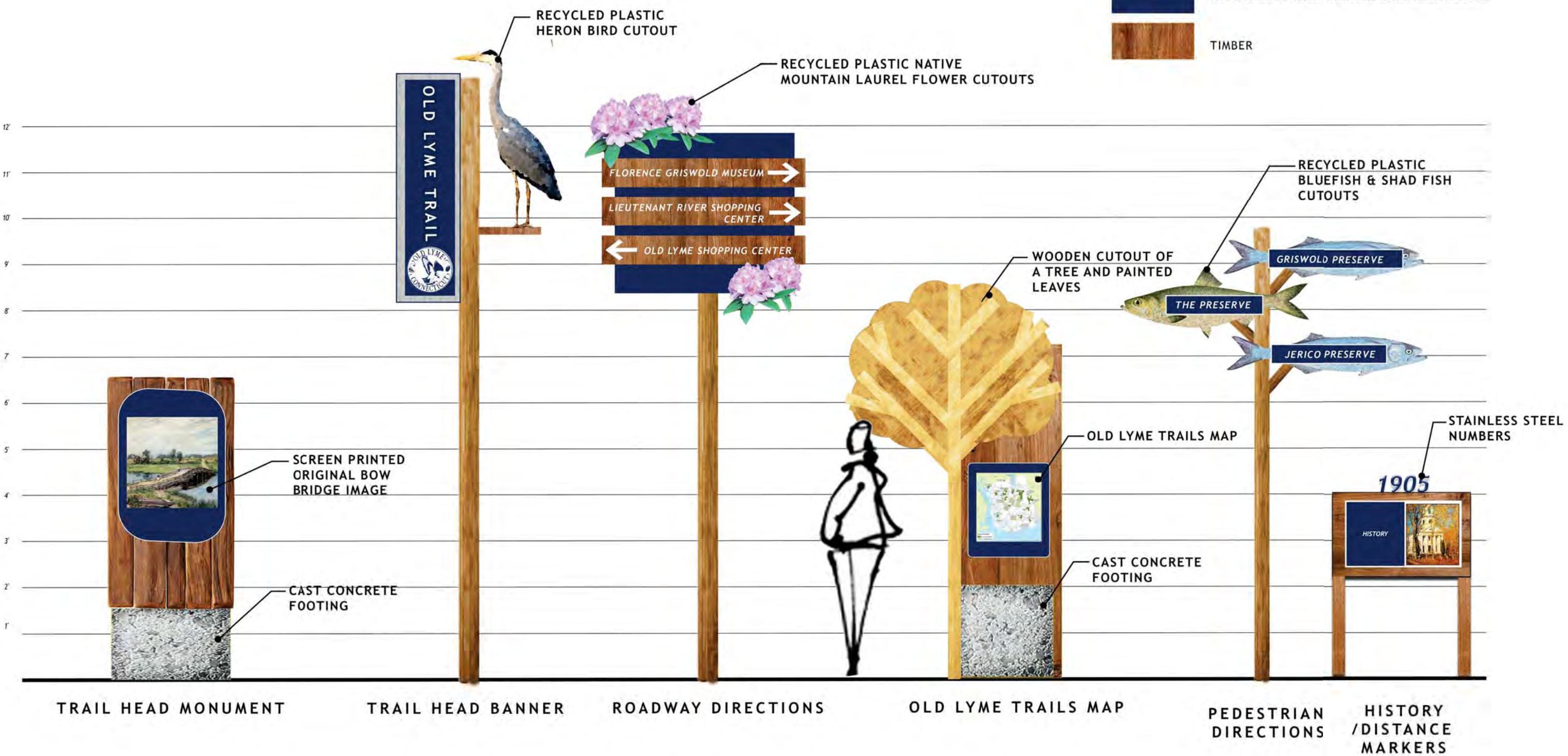


PRIMARY MATERIALS



POWDER COATED OR PAINTED ALUMINUM PANELS

TIMBER



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NATURE THEMED WAYFINDING

OLD LYME MULTI-USE TRAIL
OLD LYME, CT

SCALE: 10' 10.5'

REF. NO. 5501



PRELIMINARY CONSTRUCTION COST ESTIMATES

OPTION 'A' - STEEL BOW STRING BRIDGE

Bridge & Foundation Construction:	\$525k to \$575k
East & West Boardwalks Approaches:	\$325k to \$520k
Water Access:	\$300k to \$400k
Themed Trail Work:	\$375k to \$440k
Site Work (demo, erosion control, etc.):	\$275k to \$350k
Overhead Utility Work (Approx.):	\$150k to \$225k

Preliminary Cost: \$1.95 to \$2.51 mil

Bridge Lifespan:	50 yrs +
Fiber Reinforced Decking:	50 yrs + (\$\$\$)
IPE Wood Decking:	20 yrs + (\$\$)(\$40k replacement cost)
Paint Finish:	20 to 25 yrs
Annual Maintenance Requirements -	
• Bi-annual inspections recommended	
• Keep bridge seats clean (ie. leaf blower, brush, etc.)	
• Winter snow clearing	
• Power wash bridge (only of salts are used)	

OPTION 'B' - GLULAM GIRDER BRIDGE

Bridge & Foundation Construction:	\$500k to \$550k
East & West Boardwalks Approaches:	\$325k to \$520k
Water Access:	\$300k to \$400k
Themed Trail Work:	\$375k to \$440k
Site Work (demo, erosion control, etc.):	\$275k to \$350k
Overhead Utility Work (Approx.):	\$150k to \$225k

Preliminary Cost: \$1.93 to \$2.49 mil

Bridge Lifespan:	50 to 75 yrs
Fiber Grate Decking:	50 to 75 yrs (\$\$\$)
Sawn Glulam Decking	25 yrs + (\$\$)(\$40k replacement cost)
Wood Finish:	75 yrs (turns 'silver gray' over time)
Annual Maintenance Requirements -	
• Bi-annual inspections recommended	
• Keep bridge seats clean (ie. leaf blower, brush, etc.)	
• Winter snow clearing	

All funding for the Lieutenant River Trails & Bridge design project are provided by grants from the **American Rescue Plan Allocation** (ARPA by the town of Old Lyme) and the **Connecticut Recreational Trails Program**.

Additional grant funding will be applied for project construction and maintenance.

Anticipated Environmental Permits:

- U.S. Army Corps of Engineers (SV)
- DEEP Stormwater General Permit
- Old Lyme Conservation Commission
- Section 401 Clean Water Act (CWA)
- Harbor Management Commission
- Inland Wetland Commission

Project Element Options

1. Main Trail Paving Options

**A**

Asphalt with Chip Seal

**B**

Asphalt with Color Seal

2. Bridge Railing Options

**A**

Cable Steel with wood toprail

**B**

Cast Aluminum

3. Woodland Boardwalk Options

**A**

Trex Decking

**B**

Natural Wood

4. Water Access Options

**A**

Fishing Access

**B**

Boating Access

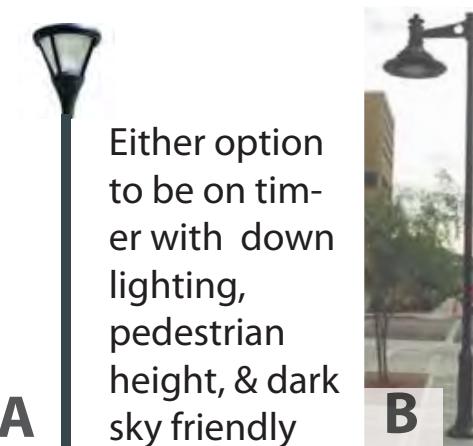


A
Art Theme



B
Nature Theme

5. Bench Options

**A**

6. Solar Light Fixtures



A Art Theme



B Nature Theme

7. Trash Barrel Options



BONUS: Concert Grounds similar to Flo Gris Museum

8. Bridge Options



STEEL BOW TRUSS BRIDGE

A Steel Bow Truss Bridge



GLULAM GIRDER BRIDGE

B Glulam Girder Bridge



Tally from 2 open houses for the Lieutenant River Trails Bridge Design
9/30/2023 and 10/5/2023

Tally of votes from 09/39/23, 10/05/23, and additional from HRIC town web site. 64 voters & 92 attendees

		A	B	comments	issues	A	OUT COME
1	Paving Material		51	More Natual Visually Pleasing Flo Gris similarity Pervious material looking	Natural	Asphalt toxins Need a bike lane in A	Drainage chip seal
2	Bridge & Boardwalk Railings		55	More Natual Visually Pleasing Wood Posts & cable Cable/Steel w/wood cap			cable with wood rail
3	Woodland Boardwalk		37	Wood More Natual Trex more durable Flo Gris similarity Duarbility	8 6 2 5		Natural and durable Trex
4	Water Access		26	No to both Unattractive Enviromentally friendly Fishing	2 1 2	too small an area See long note from Mary Devins on fishing	Boat Access Fishing
5	Benches		31	Flo Gris similarity More Natual 1	4 5	Wood if durable enough therwise use trex	Wood if durable enough
6	Lighting		11	No to both motion detectors down lights Flo Gris similarity Durability yellow light better of bugs 1 OFF 11 - 6am 19th century look 1	1 4 3 1 1 1	Historic District style 1 wildlife friendly 1 from ground 1	B more traditional
7	Trash Bins		29	More Natural Durability	2 3	Public Works should have a say	Wood if durable enough
8	Bridge Style		14	Aaesthetics glulam Aaesthetics steel truss Make bowed as possible A discourages fishing B suitable to OL	1 1 2 .2	Glulam with bowed railing to make more bow to appearance	Glulam girder
		yes	no				
9	Bonus Gathering		21	Don't compete with FGM Noise from road Spontaneous gathering 1	1 2		
	A Art theme		13	More Durable w/ natural elements carving into wood is too easy on wood	6 4 3	Mixture of art and nature	FGM standards repeatedly referenced
	B Nature Theme		18	More Natural Like trail head monument! Wildlife cutouts & imprss. Art Nature trail layout best		Mixture of art, history, and nature	Natural was asked for repeatedly