

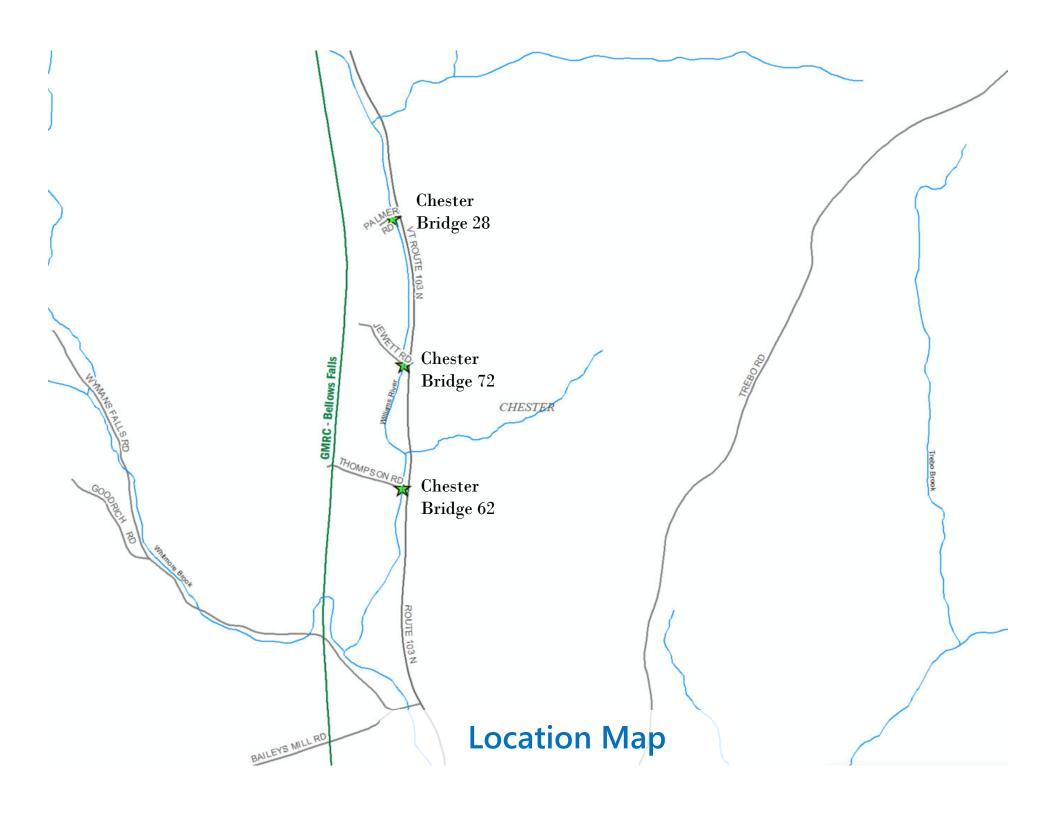
Chester BO 1442(39) Property Owner Meeting

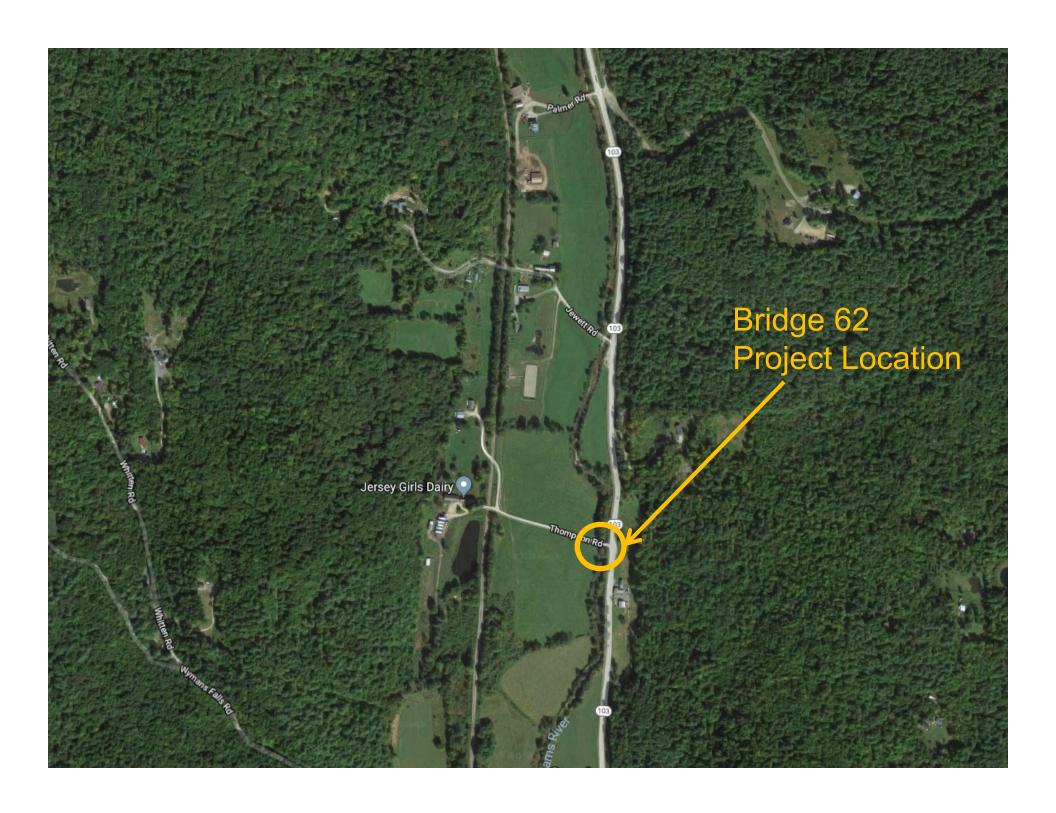
Town Highway 18 (Thompson Road) – Bridge #62 over Williams River

VERMONT

AGENCY OF TRANSPORTATION

April 25, 2019









Existing Conditions – Bridge #62 (Thompson Road)

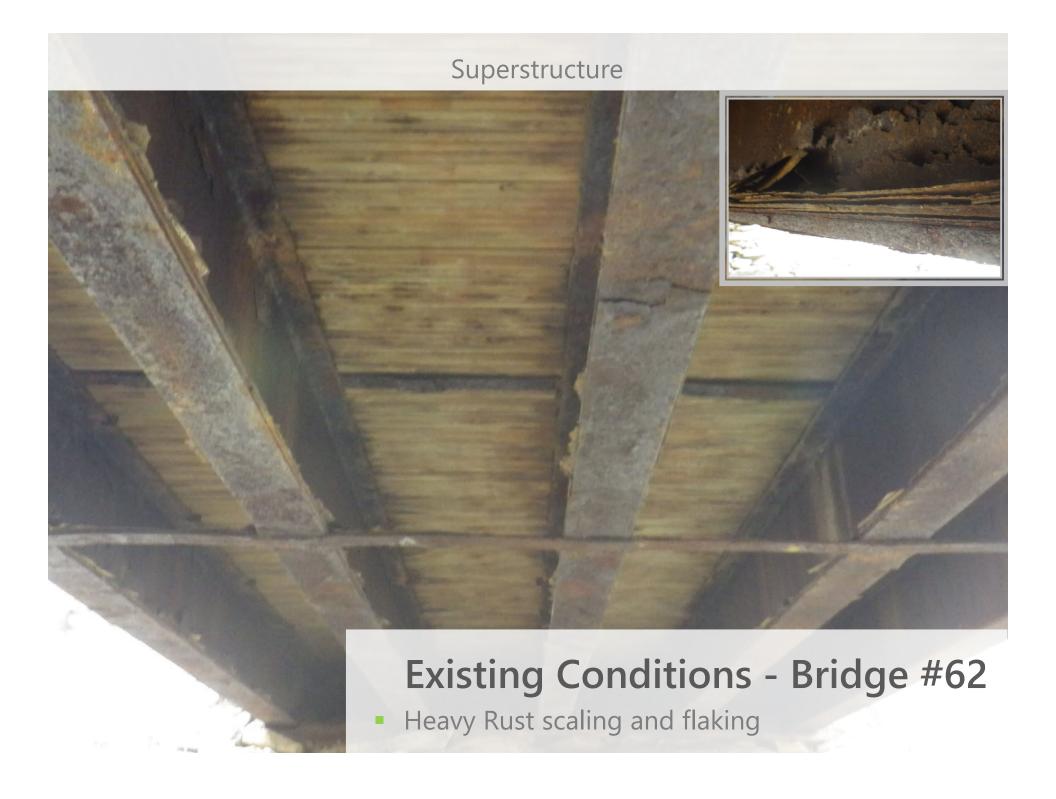
- Roadway Classification Local Road, Class 3 TH, Unpaved
- Bridge Type 41' Span Timber Deck on Rolled Steel
 Beams and dry stone masonry abutments
- Ownership Town of Chester
- Year Built: Unknown

Looking East over Bridge

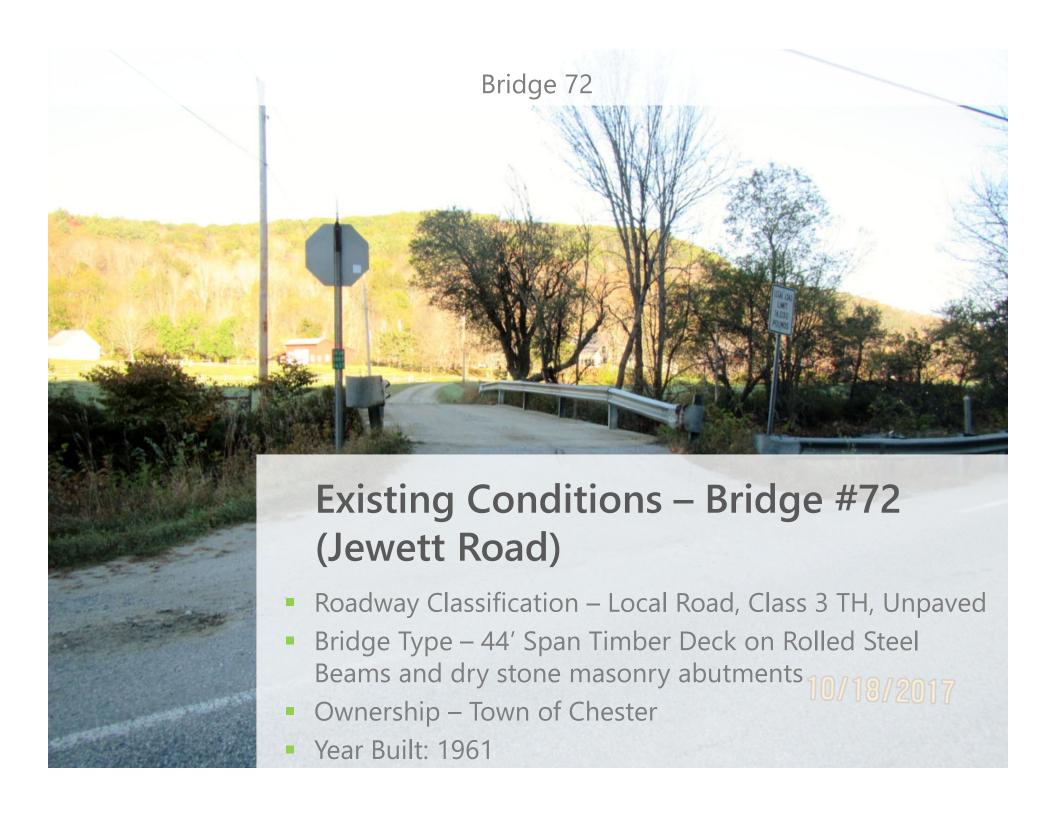


Condition Ratings



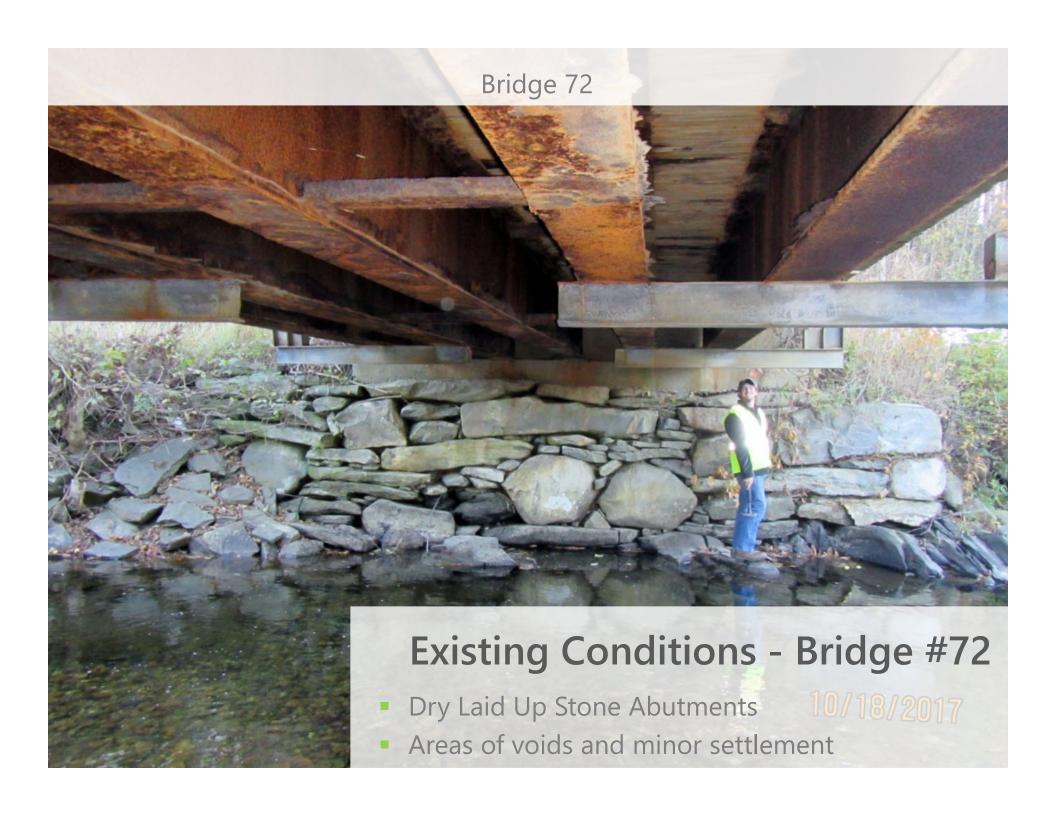






Bridge 72







Existing Conditions – Bridge #28 (Palmer Road)

- Roadway Classification Local Road, Class 3 TH, Unpaved
- Bridge Type 67' Span Rolled Thru Beam Bridge
- Ownership Town of Chester
- Year Built: 1949

Bridge 28



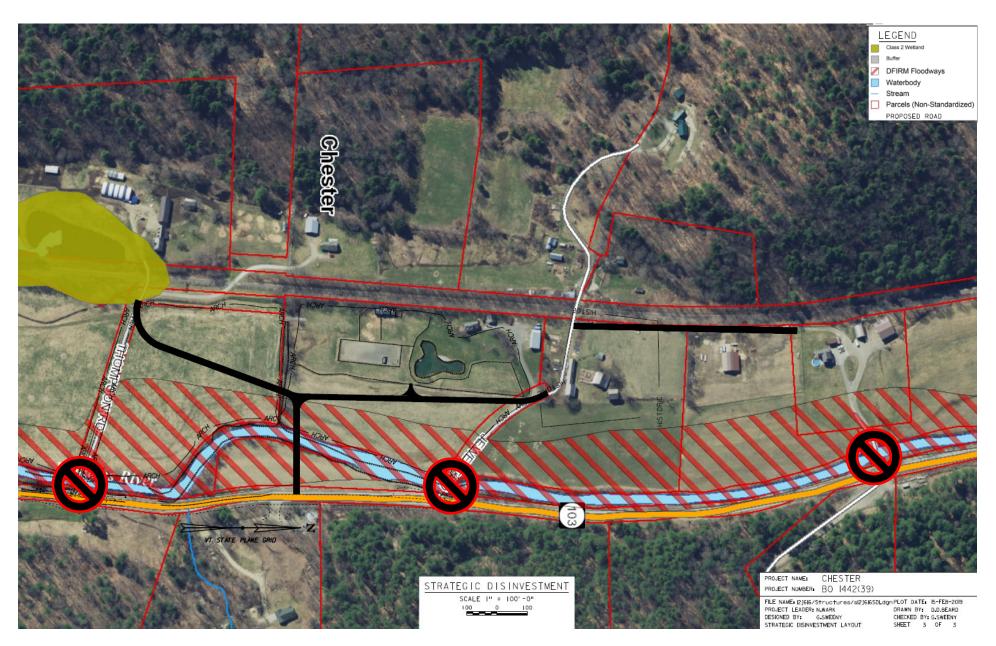






Proposed Layout – option 3





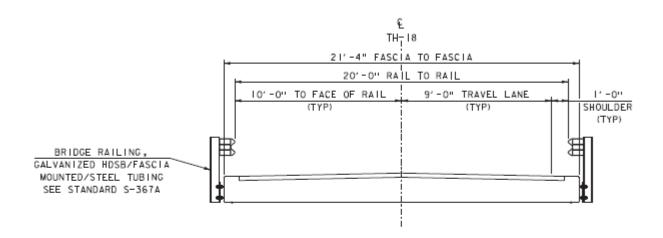
Future Costs of Individual Replacement In-Kind

- Bridge 62: \$1.4 Million
- Bridge 72: \$1.4 Million
- Bridge 28: \$1.5 Million (or \$900,000 for superstructure replacement only)
- Total Anticipated Costs in the near future for in-kind replacement: \$4.3 Million
- Cost of Full Bridge Replacement Off-Alignment & Removal of Bridges 62, 72 & 28: \$1.8 Million
 - Savings in future maintenance costs only 1 bridge to maintain



Typical Section



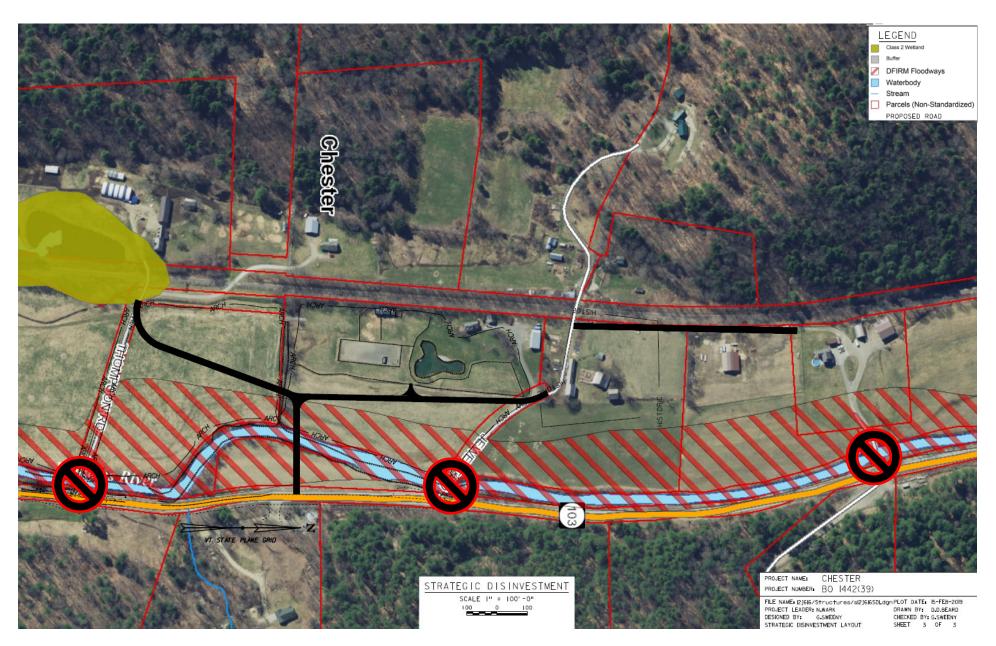


ALTERNATIVE 3 BRIDGE TYPICAL SECTION

SCALE %" = 1'-0"

Proposed Layout – option 3





Recommended Scope

- Full Bridge Replacement Off-Alignment & Removal of Bridges 62, 72 & 28 with Traffic Maintained on the Existing Structures
 - 9'/1' typical
 - 75 year design life
 - Savings in future maintenance and replacement costs of bridges 72 and 28
 - Right of Way Needed
 - Archaeological study needed
 - Construction Year: 2023



Alternatives Matrix

	Alternative 1	Alternative 2		Alternative 3	Alternative 4	Alternative 5
Chester BO 1442(39)	Rehabilitation	Full Bridge Replacement On-Alignment		Full Bridge Replacement Off- Alignment - Removal of Bridge 62	Full Bridge Replacement Off- Alignment - Removal of Bridges 62 and 72	Full Bridge Replacement Off- Alignment - Removal of Bridge 62, 72, and 28
	Offsite Detour	a. Offsite Detour	b. Temporary Bridge	Existing Bridge	Existing Bridge	Existing Bridge
Total Project Costs	895,480	1,186,774	1,438,845	1,467,635	1,620,751	1,821,063
Annualized Costs	44,774.00	15,823.65	19,184.59	19,568.47	21,610.01	24,280.84
Town %	2.50%	5%	10%	10%	10%	10%
Town Share	22,387.00	59,338.68	143,884.45	146,763.50	162,075.05	182,106.30
Project Development Duration ³	2 years	4 years	4 years	4 years	4 years	4 years
Construction Duration	4 months	6 months	9 months	6 months	6 months	6 months
Closure Duration (If Applicable)	2 months	3 months	N/A	N/A	N/A	N/A
Typical Section - Roadway (feet)	14'	14'	14'	18'	18'	18'
Typical Section - Bridge (feet)	1'-12'-1'	1'-9'-9'-1'	1'-9'-9'-1'	1'-9'-9'-1'	1'-9'-9'-1'	1'-9'-9'-1'
Geometric Design Criteria	Substandard Width	Meets Standard	Meets Standard	Meets Standard	Meets Standard	Meets Standard
Traffic Safety	Improved	Improved	Improved	Improved	Improved	Improved
Alignment Change	No	No	No	Yes	Yes	Yes
Bicycle Access	No Change	Improved	Improved	Improved	Improved	Improved
Pedestrian Access	No Change	Improved	Improved	Improved	Improved	Improved
Hydraulics	Substandard BFW	Meets Standard	Meets Standard	Meets Standard	Meets Standard	Meets Standard
Utilities	No Change	No Change	No Change	No Change	No Change	No Change
ROW Acquisition	Yes	Yes	Yes	Yes	Yes	Yes
Road Closure	Yes	Yes	No	No	No	No
Design Life (years)	20	75	75	75	75	75



Chester BO 1442(39) Questions and Comments

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