

Town of Peterborough



Main Street Bridge, US 202 & Retaining Wall Project Temporary North Crossing Discussion

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Outline

- Potential Bridge Locations
- Comparison of Locations
- Comparison of Traffic Control Options



Location No. 1



Looking East Through A.W. Peters Driveway



Poor Sight Distance to North
on Summer Street



Location No. 1



Looking South on Concord Street –
Poor Sight Distance



Looking North on Concord Street



Location No. 1

- Bridge Span = 120 feet +/-
- Requires 4 feet to 6 feet of fill in flood plain.
- Bottom of steel above Q_{50} .
- Poor sight distance to south on Concord Street.
- Limited room on Concord Street end for abutment.
- Overhead wires along bank at Concord Street.
- Poor sight distance to north at Summer Street.



Location No. 2



Possible Route at North End of
69 Summer Street Property



Possible Route Between
67 and 69 Summer Street Properties



Location No. 2



Looking South on Summer Street



Looking North on Summer Street



Location No. 2



Looking South on Concord Street



Looking North on Concord Street



Location No. 2



Looking West Across Contoocook River



Looking East to Animal Hospital



Location No. 2

- Bridge Span = 130 feet +/-
- Good sight distance north and south on Summer Street.
- Good sight distance north and south on Concord Street.
- Requires 0 feet to 3 feet of fill in flood plain.
- Bottom of steel at 10 year flood stage +/-.
 - Bridge and approach is a “dam” in 10 year + storms.
 - Permitting may be an issue.
 - Construction could cause upstream flooding.



Location No. 3



Looking South on Summer Street



Looking North on Summer Street



Location No. 3



Looking East to Strand Building from
Common Path



Looking South on Concord Street



Location No. 3



Looking North on Concord Street



Looking West Through
Strand Building Driveway



Location No. 3



Looking West Across Contoocook River



Looking East Through
Strand Building Driveway



Location No. 3

- Bridge Span = 120 feet +/-
- Requires 3 feet or more of fill in flood plain.
- Mill and overlay Strand driveway pavement 150 feet +/-.
- Reasonable sight distance north and south on Concord Street.
- Overhead wires along bank at Concord Street.
- Limited sight distance to north and south on Summer Street.
- Impacts to common path / wetlands on west side.
- Two options evaluated:
 - #1 – Over 10 year storm
 - #2 – Over 50 year storm



Comparison of Traffic Control Options

	Approximate Construction Cost \$\$	Minimum Main Street Bridge Width	Construction Duration of Main Street Bridge *	Other Considerations
Location #1	\$750k	43' +/- (Existing Width)	45 Weeks +/-	-Intersection with 202 -Fill in Flood Plain -Permitting, Hydraulics -Temporary ROW Impacts -Increased Traffic on Summer Street
Location #2	\$500k	43' +/- (Existing Width)	45 Weeks +/-	
Location #3 – Option #1	\$575k	43' +/- (Existing Width)	45 Weeks +/-	
Location #3 – Option #2	\$600k			
Phased Construction	\$1.25 M	53'-6" (10'-6" Wider)	88 Weeks +/-	
Temporary Bridge Upstream	\$750k - \$1.0 M	43' +/- Existing Width	50 Weeks +/-	-Temporary ROW Impacts -Tough Intersection with Granite Street

* To get bridge open to traffic

