STEERING COMMITTEE ALTERNATIVES WORKSHOP MEETING #1 MAY 22, 2018







AGENDA

- 1. Review Input Received at Listening Sessions
- 2. Purpose & Need Statement
- 3. Existing Traffic Analysis
- 4. Proposed Alternative Discussion
- 5. Streetscape Alternative Discussion
- 6. Decision Matrix Discussion
- 7. Questions & Answers
- 8. Adjourn









LISTENING SESSIONS

Safety

- Vehicles
- Pedestrians
- Bicycles
- Merging Issues

Traffic

- A lot of Traffic
- Side Road Cut-through
- Left Turns to Side Roads
- D StreetSignal

Access

- Northern Development
- Crown St. Area
- River

Aesthetics

- Gateway
- Garden
- River walk
- Trees
- Green Space







PURPOSE & NEED STATEMENT









PURPOSE

Improve Mobility of All Users

Improve Access

Facilitate Land Use

Not Adversely Impact Traffic

Provide Aesthetically Pleasing Gateway







NEEDS

Daily Traffic Congestion, Queues, & Delay

Lack of Bike & Ped Accommodations

Merging Vehicles Creates Safety Concerns

Limited Access to Crown St. & New Development

Not a Welcoming Gateway Into the City







EXISTING TRAFFIC MODEL









PREVIOUS STUDIES

- East Hollis Street Area Plan
- 2015 STV Traffic Study



		S		3 5	3	Winner 12: Reputition and Strado IRUI		X		
	Existing Conditions	No-Build	"Minimal" Build	4-Legged Roundabout	5-Legged Roundabout	Asymmetrical Circle	4-Legged Signal	5-Legged Signal	Twin Signals	One-Way Couplet
ey (s)	AM PM	AM PM	AM PM	AM PM	AM PM	AM PM	AM PM	AM PM	AM PM	AM PM
Ferry Street	15 11	20 20 21	13 13	6	(Similar to 4-legged roundabout)	198	25 25	26 3:		(Multiple intersections affected.
Thro	2	1 5	3 2		100		13 11	34 4	1 12 1	Delays typically in the 10-20 secon
Left	25 1	9 31 4	21 21				35 36	44 4		range for each intersection. Additi
Right	6	200	0222 St	0.00	4	100000	13 13	15 2:		travel time for Bridge Street and Fe
Bencroft Street Thro				>685 90		380	35 4	35 4	3 39 4	Street approaches due to out-of- direction travel)
Right	6									
Bridge Street	15 5	0 19 30	17 16	>919 >566	5	100	32 35	27 3	7 40 4	11
Thro			17 16			1000	32 3	27 8	7	
Left	t e						39 44	32 54	4 43 4	19
Right	rt e		15 14				32 35	27 3	7 40 4	11
E. Hollis Street	1	1 1	4 1	3 1		32	19 4	27 3	7 32 4	10
Thro Left							34 53 34 53	27 3 39 5	5	
Crown Street	4					73	19 43	27 3:	3 31 4	
Thre Left Right								-		
Intersection total	12 1	9 19 1				140	26 34	27 3:		14
Access	Poor	Poor	Fair	Fair	Good	Good	Fair	Good	Good	Feir
Delay	Good	Good	Good	Pour	Poor	Pour	Fair	Fair	Fair	Fair
Footprint	Fair	Fair	Fair or good	Fair	Fair	Fair	Poor	Poor	Poor	Good
Notes	No access to Remainsance or Crown Street. Low delay except for Bridge St in PM Minimal hardscaping but creates dead space in interior	overall delay.		Direct access to Renwissance. Not to Crown Street. Unacceptable delays. Moderate hardscaping, but creates dead space in leterior	Provides acces to Renatissance and Crown Street Unacceptable Delays Moderate hardscaping, but creates dead space in interior	Provides acces to Renatisance and Crown Street Unacceptable Delays Moderate hardscaping, but creates dead space in Interior	Provides acces to Renatisance. Not to Crown Street Acceptable Delays Intensive hardscaping	Provides acces to Remaissance and Crown Street Acceptable Delays Intensive hardscaping	Provides accent to Renaissance and Crown Street Acceptable Delays Internive hardscaping	Provides access to finansisance an Crown Street, but increases travel distances. Low control delay from signals, but increased travel time for out-of- direction travel. Minimal hardscaping. Potential secondary impacts from conversion to one-way streets.







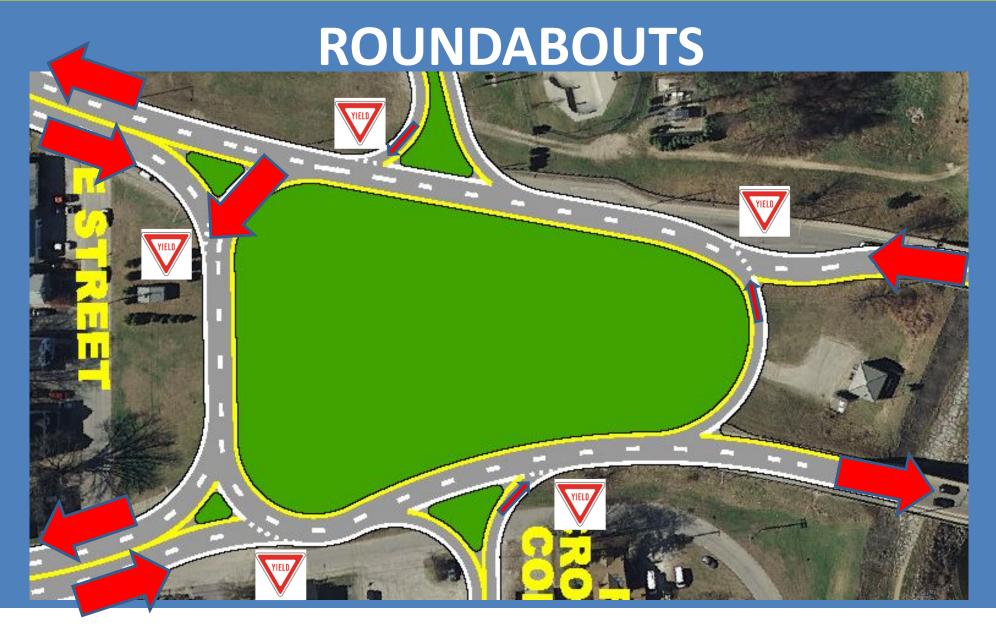
ALTERNATIVES DEVELOPMENT

















ROUNDABOUTS w/ METERING









PURPOSE

Improve Mobility of All Users

Improve Access

Facilitate Land Use

Not Adversely Impact Traffic

Provide Aesthetically Pleasing Gateway







SIGNALIZED INTERSECTIONS









SIGNALIZED INTERSECTIONS









SIGNALIZED INTERSECTIONS







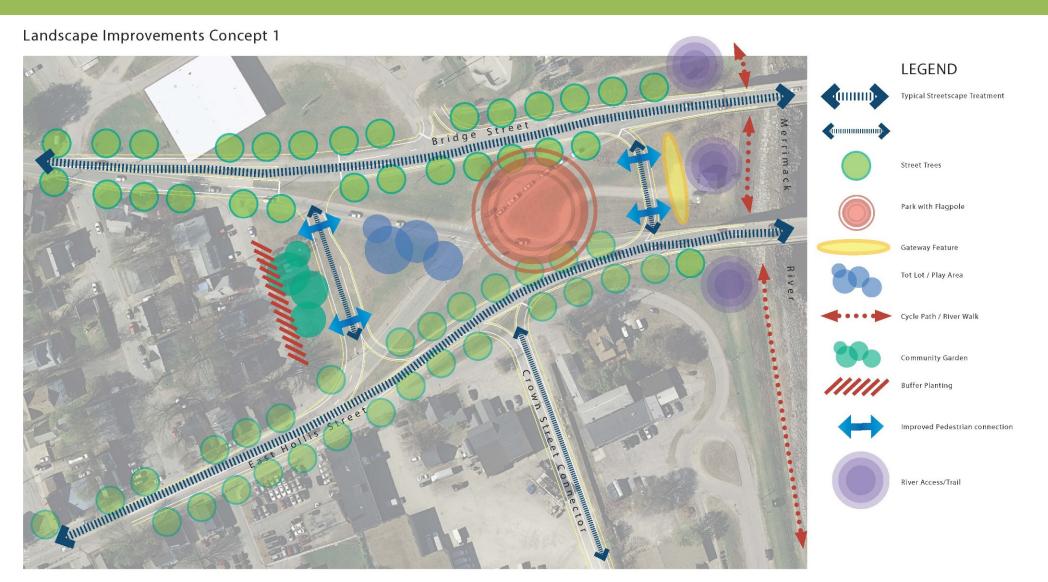








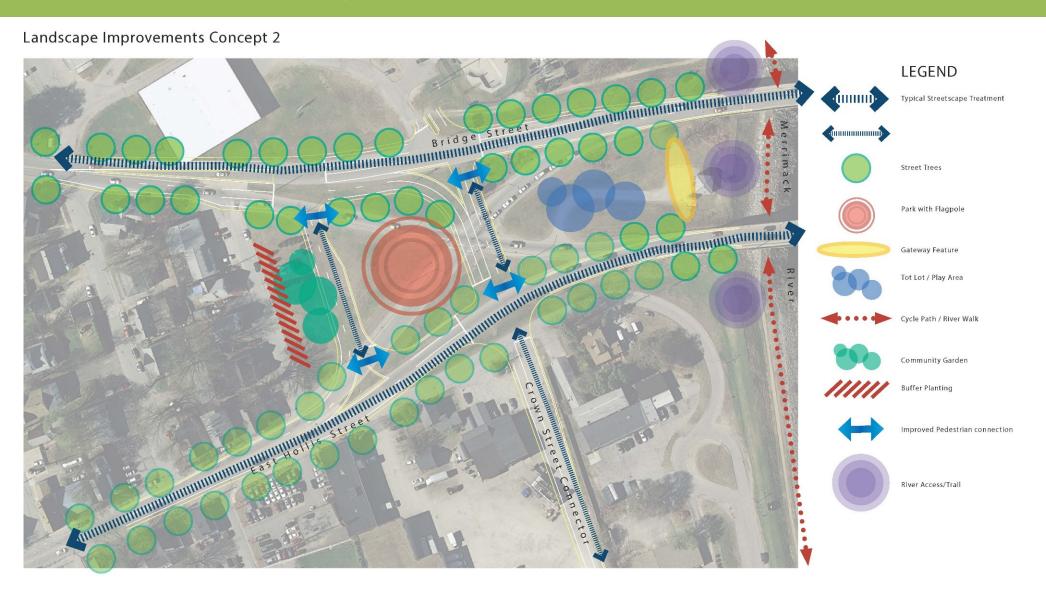














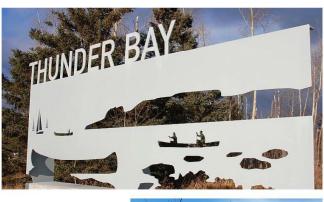




Gateways / Art Elements / Historical Features































Streetscape and Park Imagery





























Typical Street Trees and Planting



















Comus florida







DECIDUOUS TREES -

Acer x freemanii: Armstrong Red Maple

Ginkgo biloba: Ginkgo

Gleditsia triacanthos "Skyline": Skyline Honeylocust

Platanus x acerifolia: London Plane Tree

ORNAMENTAL TREES-

Cercis canadensis: Eastern redbud Cornus florida: Dogwood

GROUNDCOVER AND PERENNIALS-

Juniperus Horizontalis 'Wiltonii': Blue Rug Juniper

Liriope Muscari: Blue Lilyturf Hemerocallis: Daylillies

Pennisetum alopecuroides: Fountain Grass Rudbeckia fulgida 'Goldstrum': Blackeyed Susan













SITE AMENITIES - Contemporary















Landscape Forms: Neoliviano Bench

TRASH/RECYCLING RECEPTACLE -Landscape Forms: FGP Trash Receptacle

BIKE RACK -

Landscape Forms: MultipliCITY Bike Rack

TREE GRATE -

Urban Accessories: Jamison Tree Grate

LIGHT -

Landscape Forms: FGP Pedestrian Light

















SITE AMENITIES - Traditional / Contemporary











Landscape Forms: Scarborough Bench

TRASH/RECYCLING RECEPTACLE - Landscape Forms: Scarborough Trash Receptacle

BIKE RACK-

Forms + Surfaces: Trio Bike Rack

TREE GRATES -

Urban Accessories: Coho Tree Grate

LIGHT -

Landscape Forms: Alcott Pedestrian Light















SITE AMENITIES - Traditional









Landscape Forms: Plainwell Bench

TRASH/RECYCLING RECEPTACLE -

Landscape Forms: Plainwell Litter

BIKE RACK -Victor Stanley: BK - 4 TREE GRATE -

Urban Accessories: Fan Tree Grate

LIGHT -

Sentry Electric: SBP Battery Park



















DECISION MATRIX DISCUSSION

Mobility

 Bicycle & Pedestrian Facilities Enhanced



Access

 Connections to North & South of Intersection

Land Use

 Improvements Support Future Vision



Traffic

Impact to Delay, Queues, & LOS



- Improved Gateway
- Additional Greenspace

Poor

Cost

- What is Total Estimated Cost?
- Within Budget







QUESTIONS / COMMENTS

www.nashuagatewayproject.com





