NASHUA GATEWAY OPTIONS WORKSHOP

AUGUST 15, 2018







AGENDA

- 1. Project Overview
- 2. Role of the Steering Committee
- 3. Study Tasks & Status
- 4. Listening Session Feedback
- 5. Presentation of Alternatives
- 6. Rating of Alternatives
- 7. Project Schedule
- 8. Questions & Answers









PROJECT OVERVIEW









ROLE OF STEERING COMMITTEE

- Develop Project Goals / Vision Purpose and Need
- Act as a Conduit for Stakeholders
- Build Consensus
- Recommendation of Preferred Alternative







STEERING COMMITTEE MEMBERS

CITY of NASHUA:

Finance Manager J. Graziano

Downtown Specialist J. Vayo

Ward 7 Alderman J. Caron

P. Kohalmi **Deputy City Engineer**

S. Marchant **Director Community Development**

J. Chizmas **Transportation Planner**

W. Husband Senior Traffic Engineer

T. Cummings Director of Economic Development

Peter Schaefer

Resident

Makelt Labs: A. Shrey

SMC Management Corp: S. Riley

TOWN of HUDSON: E. Dhima Town Engineer

> **Town Administrator** S. Malizia







PROJECT SCOPE / GOALS

- ✓ Address All Modes of Transportation
- ✓ Not Make Traffic Conditions Worse
- ✓ Not a Regional Traffic Project
- ✓ Build on Previous Planning Studies









PROJECT DEVELOPMENT

NHDOT LPA PROGRAM

- A. Engineering Study (
- B. Preliminary Design
- C. Final Design
- D. Construction







ENGINEERING STUDY

Study Tasks

- A. Information Gathering/Base Maps
- B. Detailed Survey
- C. Resource Identification
- D. Project Definition
- E. Alternatives Development
- F. Abstracting
- G. Public Involvement
- H. Utility Coordination









STUDY TASKS / STATUS

Public Involvement

- Project Steering Committee
- Public Listening Session (4/4/18)
- Alternatives Workshop (8/15/18)
- Public Informational Meeting
- Board of Aldermen & Board of Public Works Presentation
- Property Owner/Citizen Meetings
- Project Website: www.nashuagatewayproject.com
- Social Media









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







PREVIOUS STUDIES

- East Hollis Street Area Plan
- 2015 STV Traffic Study

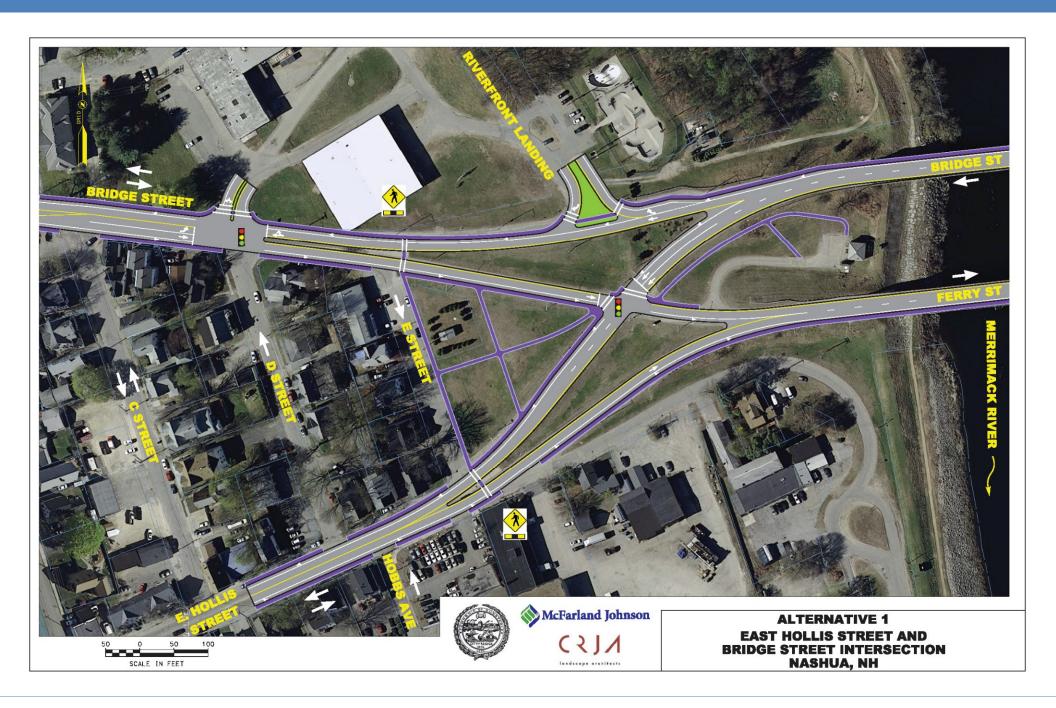


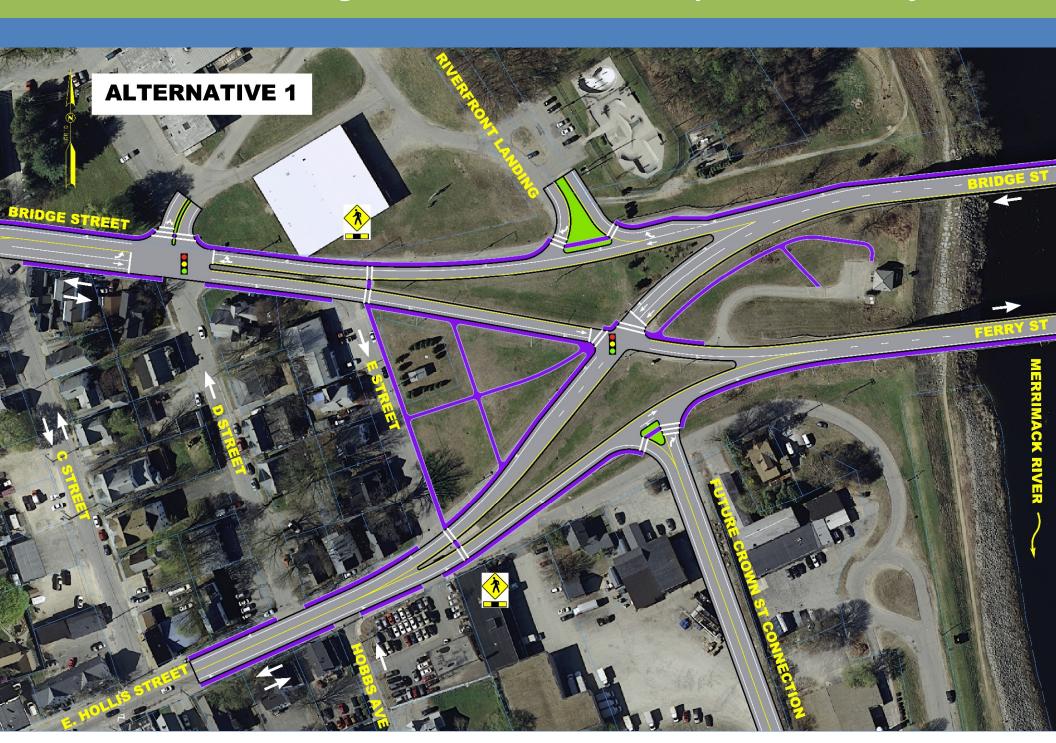
		S. C.				Jera de Jera d	步	X	K	
	Existing Conditions	No-Build	"Minimal" Build	4-Legged Roundabout	5-Legged Roundabout	Asymmetrical Circle	4-Legged Signal	5-Legged Signal	Twin Signals	One-Way Couplet
setay (s)	AM PM	AM PM	AM PM	AM PM	AM PM	AM PM	AM PM	AM PM	AM PM	AM PM
Ferry Street	15 11	20	26 13 1	3 6	(Similar to 4-legged roundabout)	198	25 25	26 33	25	(Multiple intersections affected.
The	u 2 :	5	4 3	2	N 10		13 12	34 43		10 Delays typically in the 10-20 second
Lef	h 25 15	31	41 21 2	1			35 36	44 43		14 range for each intersection. Addition
Righ	vit	800	500000			0.000	15 13	15 23		travel time for Bridge Street and Fer
Bancroft Street Thr Let	u h			>685 90		380	35 4	35 4	39	Street approaches due to out-of- direction travel)
Bridge Street	15 50	19	30 17 1	6 >919 >560	4	100	32 35	27 37	40	
Thr	77777		17 17	7917	1	200	32 3	27 3		
Est	in the second		12				39 44	32 54	43	19
Righ	we we		15 1	4			32 35	27 31	40	11
E. Hollis Street		4		4 1		32	19 4	27 30	32	10
Thr Lef Righ	u e					//-	34 55 34 55 19 44	27 35 39 58 27 39		
Crown Street			1			73	570. 37	32 40	31	ы
Thr Let Righ Intersection total	ft.	19	19 12 1	3 128 100		140	26 3	27 39	30	
Access	Popr	Book	Tair	Fair	Good	Cond	East	Good	Good	fair
Delay	Good	Good	Good	Pogr	Poor	Poor	Fair	Far	Fair	Pair
Footprint	Fair	Fair	Fair or good	Fair	Fair	Fair	Poor	Pogr	Poor	Good
Notes	No access to Remaissance or Crown Street. Low delay except for Bridge St in PM. Minimal hardscaping but creates dead space in interior	overall delay.	in Accommodates movements between Renaissance (went entrance) and £. Holls. Low delay for all movements. Minimal hardicaping, Possible to reduce dead space in interior.	Direct access to Renaissance. Not to Crown Street. Unacceptable delays. Moderate hardscaping, but creates dead space in interior	Provides acces to Renaissance and Crows Street Unacceptable Delays Moderate hardscaping, but creates dead space in interior	Provides acces to Renaissance and Crown Street Unacceptable Delays Moderate hardscaping, but creates dead space in interior	Provides acces to Renaissance. Not to Crows Street Acceptable Delays Internive hardscaping	Provides acces to Renaissance and Crown Street Acceptable Delays Intensive handscaping	Provides acces to Renaissance and Crown Street Acceptable Delays Internive hardscaping	Provides access to Renaissance and Crows 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















2 NEW PEDESTRAIN SIDEWALKS

3 OPEN GREEN SPACE

4 EXISTING BUILDINGS TO REMAIN

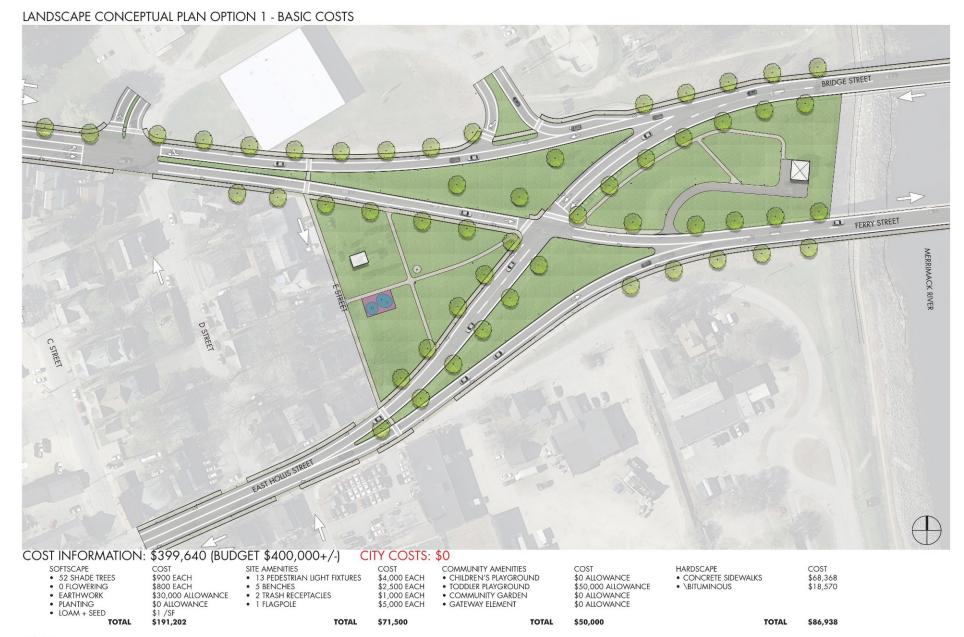
5 ACCESS DRIVE

6 PEDESTRIAN CROSSWALKS TODDLER PLAYGROUND WITH FENCING

















- 1 NEW STREET TREES
- (2) GATEWAY STRUCTURE
- 3 BUFFER PLANTING
- (4) FLAG POLE
- 5 CHILDREN'S PLAYGROUND WITH FENCING
- (6) COMMUNITY GARDEN
- 7) OPEN GREEN SPACE
- 8 NEW PEDESTRAIN SIDEWALKS
- (9) EXISTING BUILDINGS TO REMAIN (11)
- 10 LANDSCAPED BERM WITH PLANTING TO HELP SCREEN TRAFFIC
- SCULPTED LAWN LAND FORM FOR GATHERING / PLAY
-) PEDESTRIAN CONNECTION TO THE MERRIMACK RIVER
- ACCESS DRIVE
 - VE (15) DOG PARK/OPEN GREEN SPACE



















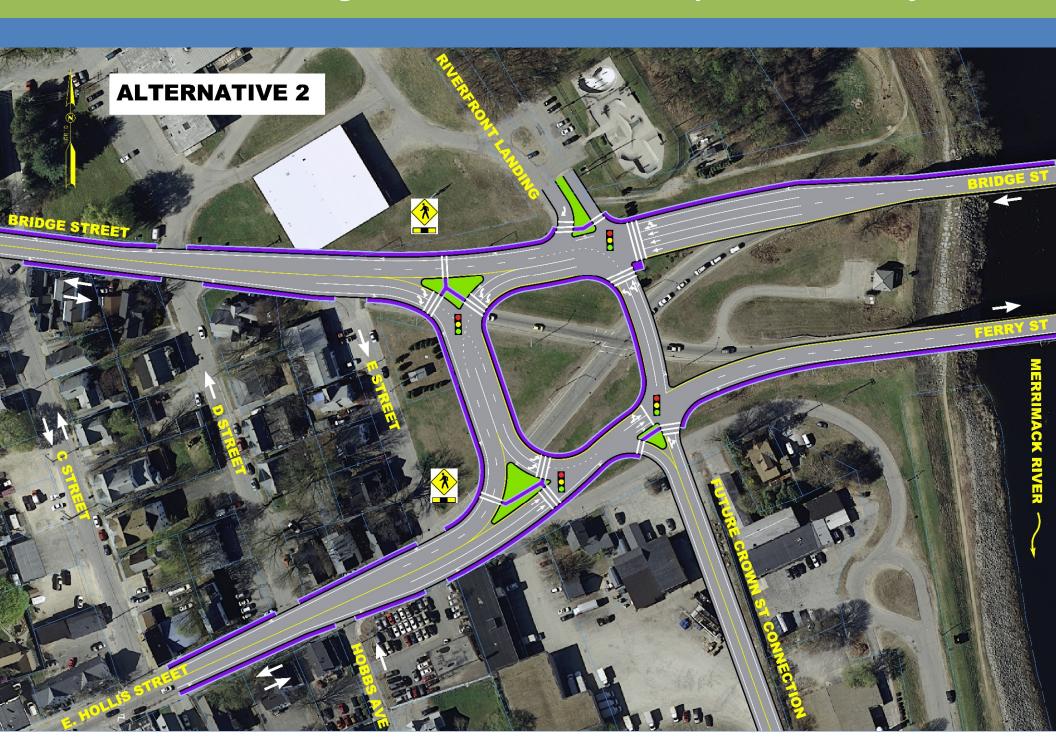
















- 1) STREET TREES
- 2 NEW PEDESTRIAN
- 3 EXISTING BUILDINGS TO REMAIN
- ACCESS DRIVE
- 5 PEDESTRIAN CROSSWALKS
- (6) OPEN GREEN SPACE



















- 1 NEW STREET TREES
- (2) GATEWAY STRUCTURE
- 3 BUFFER PLANTING
- (4) FLAG POLE
- WITH FENCING

 (6) COMMUNITY GARDEN

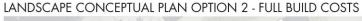
CHILDREN'S PLAYGROUD

- 7 OPEN GREEN SPACE
- 8 NEW PEDESTRIAN SIDEWALKS
- SPACE 9 EXISTING BUILDINGS TO REMAIN
 - (10) LANDSCAPED BERM WITH PLANTING TO HELP SCREEN TRAFFIC
- SCULPTED LAWN LAND FORM FOR GATHERING / PLAY
- 12) PEDESTRIAN CONNECTION TO THE MERRIMACK RIVER
- 13 ACCESS DRIVE
 - PEDESTRIAN CROSSWALKS
- DOG PARK / OPEN GREEN SPACE
- 16 TODDLER PLAYGROUND WITH FENCING











SOFTSCAPE 124 SHADE TREES

 33 FLOWERING EARTHWORK

 PLANTING LOAM + SEED

\$900 EACH \$800 EACH

\$30,000 ALLOWANCE \$50,000 ALLOWANCE \$274,315

SITE AMENITIES 42 PEDESTRIAN LIGHT FIXTURES • 11 BENCHES

 3 TRASH RECEPTACLES • 1 FLAGPOLE

\$2,500 EACH \$1,000 EACH \$5,000 EACH TOTAL \$203,500

\$4,000 EACH

COMMUNITY AMENITIES CHILDREN'S PLAYGROUND TODDLER PLAYGROUND COMMUNITY GARDEN

GATEWAY ELEMENT

\$200,000 ALLOWANCE \$50,000 ALLOWANCE \$80,000 ALLOWANCE \$100,000 ALLOWANCE

\$430,000

HARDSCAPE COST CONCRETE SIDEWALKS \$60,512 \$19,330 BITUMINOUS

> TOTAL \$79,842







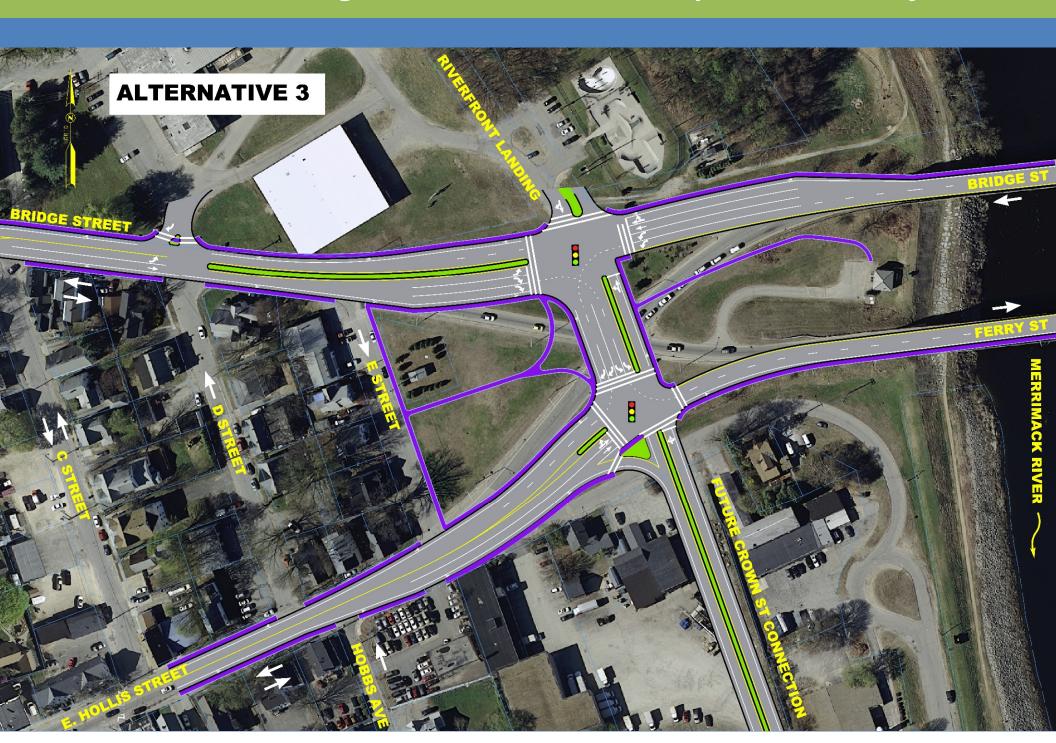
















- 1 NEW STREET TREES
- OPEN GREEN SPACE
- 3 NEW PEDESTRIAN SIDEWALKS
- (4) EXISTING BUILDINGS TO REMAIN
- 5 ACCESS DRIVE
- 6 PEDESTRIAN CROSSWALKS











COST INFORMATION: \$302,994 (BUDGET \$300,000+/-)

CITY COSTS: \$2,994 +/-

SOFTSCAPE 40 SHADE TREES

\$1,000 EACH 0 FLOWERING TREES \$800 EACH

\$30,000 ALLOWANCE EARTHWORK PLANTING \$0 ALLOWANCE LOAM + SEED

\$1.60/SF \$171,152 SITE AMENITIES 16 PEDESTRIAN LIGHT FIXTURES

 4 BENCHES 2 TRASH RECEPTACLES

TOTAL

1 FLAGPOLE

COST \$4,000 EACH \$2,500 EACH \$1,000 EACH \$5,000 EACH

\$81,000

COMMUNITY AMENITIES CHILDREN'S PLAYGROUND TODDLER PLAYGROUND COMMUNITY GARDEN

TOTAL

GATEWAY ELEMENT

\$0 ALLOWANCE \$0 ALLOWANCE \$0 ALLOWANCE \$0 ALLOWANCE

HARDSCAPE CONCRETE SIDEWALKS BITUMINOUS

COST \$31,512 \$19,330

TOTAL \$50,842











- **NEW STREET TREES**
- (2) GATEWAY STRUCTURE
- 3 BUFFER PLANTING 5 CHILDREN'S PLAYGROUD

(4) FLAG POLE

- WITH FENCING
- COMMUNITY GARDEN
- (7) OPEN GREEN SPACE
 - NEW PEDESTRIAN SIDEWALKS
- EXISTING BUILDINGS TO REMAIN
 - LANDSCAPED BERM WITH PLANTING TO HELP SCREEN

TRAFFIC

- SCULPTED LAWN LAND FORM FOR GATHERING / PLAY
 - PEDESTRIAN CONNECTION TO THE MERRIMACK RIVER
- ACCESS DRIVE
- **PEDESTRIAN** CROSSWALKS
- DOG PARK / OPEN GREEN SPACE
- TODDLER PLAYGROUND WITH FENCING











COST INFORMATION: \$1,045,928 (BUDGET \$300,000+/-)

SOFTSCAPE 125 SHADE TREES

33 FLOWERING TREES

EARTHWORK

 PLANTING LOAM + SEED

\$30,000 ALLOWANCE \$50,000 ALLOWANCE \$1.60/SF

\$272,810

\$900 EACH

\$800 EACH

SITE AMENITIES 54 PEDESTRIAN LIGHT FIXTURES

• 11 BENCHES 3 TRASH RECEPTACLES • 1 FLAGPOLE

TOTAL

CITY COSTS: \$745,928 +/-

\$4,000 EACH \$2,500 EACH \$1,000 EACH \$5,000 EACH

\$251,500

COMMUNITY AMENITIES CHILDREN'S PLAYGROUND TODDLER PLAYGROUND COMMUNITY GARDEN GATEWAY ELEMENT

\$200,000 ALLOWANCE \$50,000 ALLOWANCE \$80,000 ALLOWANCE \$100,000 ALLOWANCE

\$430,000

HARDSCAPE

 CONCRETE SIDEWALKS BITUMINOUS

COST \$72,288 \$19,330

TOTAL \$91,618







LANDSCAPE CONCEPTUAL PLAN OPTION 3 - FULL BUILD PERSPECTIVE









DECISION MATRIX DISCUSSION

Mobility

Bicycle & Pedestrian Facilities Enhanced

High

Access

 Connections to North & South of Intersection

Land Use

Improvements Support Future Vision

Traffic

Impact to Delay, Queues, & LOS

Neutral

Aesthetics

- Improved Gateway
- Additional Greenspace

Neighborhood

 Improvements Provide Amenities to Neighborhood



Cost

- What is Total Estimated Cost?
- Within Budget







LANDSCAPE CONCEPTUAL DESIGN - SITE AMENITIES















TRADITIONAL VERSUS CONTEMPORARY?





















LANDSCAPE CONCEPTUAL DESIGN - GATEWAY ELEMENT























WHAT SHOULD IT BE / LOOK LIKE?









PROJECT SCHEDULE

Resource Identification & Traffic Spring

Today **Public Listening Session**

May-July **Alternatives Development**

(2 Steering Committee Meetings)

Mid August **Alternatives Workshop**

Steering Committee Meeting

Public Informational Meeting

BoA & BoPW Presentations

Survey

Mid September

Late September

October

Summer







QUESTIONS / COMMENTS

www.nashuagatewayproject.com





