#### 2019 State Street Reconstruction

03

Putnam Heights Neighborhood Meeting St. Marks Lutheran Church January 24, 2019

#### Agenda

03

- Revised Project Schedule
- **™** Feedback
- Recommendations & 
   Analysis
- **Questions**



#### **Project Information**



- Garfield Ave to ~ 300 ft. South of Hamilton Ave
- □ Full Reconstruction (Utilities + Pavement)

- Maintain or Improve Existing Traffic Capacity & Flow



#### Revised Project Schedule

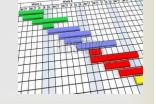


#### **≈** 2018

- Spring, Summer, Fall
  - Rublic Outreach
- November & December
- Public Open House & Neighborhood Meetings

#### **≈** 2019

- **3** January
  - City Council Work Session (Jan. 8)
  - CR TWNA (Jan. 9)
  - BPAC (Jan 15)
  - Putnam Heights Open House (Jan 24)
- March 12 City Council Vote
- June Construction Start
- 😘 Late Fall Majority of Project Complete



#### Feedback



- Initial Feedback
  - G8 Increased pedestrian safety & comfort, wider sidewalks, reduced vehicle speeds, bicycle connectivity, improve intersections at Roosevelt Ave and Lexington Blvd.
- Open House / Neighborhood Association Feedback
  - Maintain vehicular capacity throughout corridor.
  - Mark Improve Lexington Boulevard intersection, use Jaycette Park if necessary.
  - [32] Improve pedestrian safety, especially at Roosevelt Ave.
  - Wider sidewalks / trails on the State Street Hill.
  - Roundabouts seen as acceptable at Hamilton, MacArthur, and Lexington intersections in Putnam Heights, but reservations of a roundabout at Roosevelt Avenue.
  - Concerns with two lanes of traffic on State Street Hill vs. the current 3 lanes of traffic.

## 

#### **Draft Recommendations**



- Roundabouts at Hamilton Avenue, MacArthur Avenue, and Lexington Boulevard (offset option)
- $\,$  Two vehicular lanes between Bartlett Court and Lexington Boulevard with turn lanes being added at Lexington Boulevard RAB to total 4 lanes at the intersection.
- Roosevelt Avenue Safety Improvements
  - Os Dedicated Left-Turn Only Lane
  - Pedestrian Refuge Island on North Leg of Intersection
  - Roosevelt to Garfield
    - □ Unchanged Layout
    - Ravement Marking Changes
- Additional Recommendations
  - Bike Lanes (Bartlett Court to South Project Limits), Speed Feedback Signs, Pedestrian Beacon in Third Ward, Pedestrian Only Phase for Signals at Garfield.



#### Hamilton Avenue

Roundabout operates at Level of Service (LOS A).

Significantly reduces delay vs. existing 4 way stop.



#### MacArthur Avenue

Roundabout operates at Level of Service (LOS A).

Significantly reduces delay, and improves safety, for left turn onto State Street.



### Lexington Boulevard

Existing Intersection LOS is E. Proposed RAB LOS is B.

RAB Level of Service (LOS) A for North, West, and East Legs. Level of Service C for South Leg (NB traffic) during afternoon rush hour. All A's during other times.

Significantly reduces overall intersection delay vs. existing conditions.

Only right of way required comes from City owned lands.



#### Roosevelt Avenue

<u>Initial Roundabout (RAB) layout not recommended.</u>

Small RAB has potential of significant delays on State Street

RAB designed to accommodate traffic volumes would require right of way purchase, likely two houses.

Any RAB would improve turning movements from Roosevelt Avenue onto State Street, and also slow traffic.



#### Roosevelt Avenue

**Draft Recommendations** 

Left Turn Only Lane from Northbound State Street onto Roosevelt Avenue.

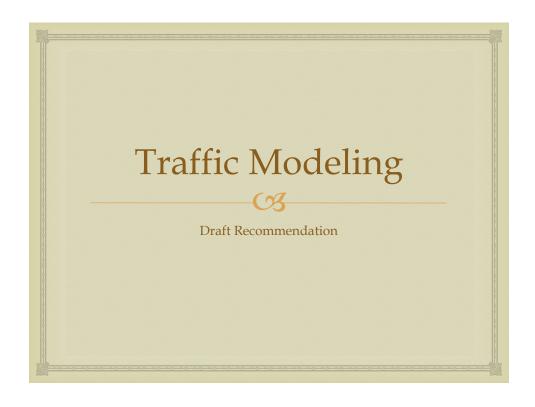
Pedestrian Refuge Island for crosswalk on North leg of intersection.

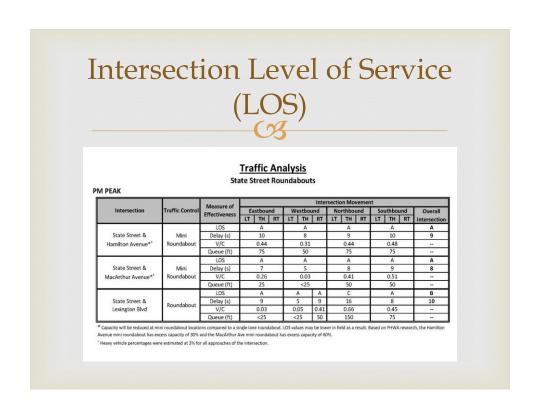
Protected Left Turn Lane from Refuge Island to Garfield Avenue Intersection.

Optimize Signal Timing at Garfield

Does not provide any improvement for turning movements from Roosevelt Avenue onto State Street.

In essence maintains existing traffic patterns from Bartlett Court to Garfield Avenue with pedestrian safety improvements.





#### Lexington Boulevard



2018 PM Peak Hour

Intersection	Traffic Control	Measure of Effectiveness	Intersection Movement												
			Eastbound			Westbound			Northbound			Southbound			Overall
			LT	TH	RT	LT	TH	RT	LT	TH	RT	LT	TH	RT	Intersection
			5	5	5	35	10	350	10	330	160	515	520	15	1,960 enterin vehicles
State Street & Lexington Blvd	TWSC	LOS	F		F		A	A		Α	В	- 1		E	
		Delay (s)	212			>300		0	9		0	11			37
		v/c	0.526		2.3			0.01			0.47			**	
		Queue (ft)	50		175			0			75				
	Roundabout	LOS	A 9			A		Α	С			A			В
		Delay (s)				5 9 0.05 0.41		9	16				8	10	
		v/c	0.03		0.66			0.45			- 2				
		Queue (ft)	<25			<	25	50	150			75			

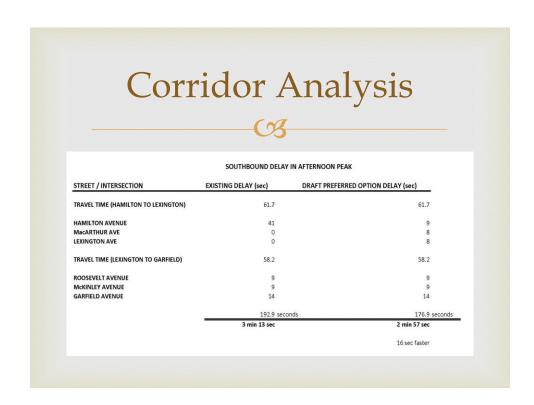
#### Roosevelt Intersection



2018 PM Peak Hour

Intersection	Traffic Control	Measure of Effectiveness	Intersection Movement												
			Eastbound			Westbound			Northbound			Southbound			Overall
			LT	TH	RT	LT	TH	RT	LT	TH	RT	LT	TH	RT	Intersection
		Traffic Volume	45	5	110	10	5	10	65	520	15	5	865	20	1,675 entering vehicles
State Street & Roosevelt Avenue	TWSC	LOS	F 117		D	F		В	A 1		A 9			A	
		Delay (s/veh)			27	69		10						6	
		v/c	0.52		0.35	0.35			0.09	- 5		0.01			
		Queue (ft)	7	5	50	25			<25	-		<25			
	Mini- Roundabout*	LOS*	С		- 9	В			В			D			С
		Delay (s/veh)	16-25			10-15			10-15			26-35			16-25
		V/C	0.3		- 1	0.01			0.54			0.82			-
		Queue (ft)	25			<25			80			400-500**			
	Ped Refuge	LOS	F D		D	F			В	A		A			A
	Island NB Left +	Delay (s/veh)	241		27	62		11		1	9			6	
	Thru/Right, SB	v/c	0.	96	0.43		0.21		0.11				0.01		-
	Single Lane	Queue (ft)	10	00	50		25		<25			<25			-

<sup>\*\*</sup> Estimates from models
+ Heavy vehicle percentages were estimated at 3% for all approaches fo the intersection.



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