Transportation Planning Study

Draft Recommendations



February 2, 2012

Meeting with Passaic County

- They are adding left turn lanes to Paterson-Hamburg Turnpike by College Drive – this will alleviate potential capacity issues at this location
- They will be implementing a "Road Diet" on Valley Road adjacent to 1,600 Valley Road (this is a narrowing of four lanes to two lanes)
- The County is open to a new traffic signal on Pompton Road, but require that a left turn lane be added

Existing Level of Service

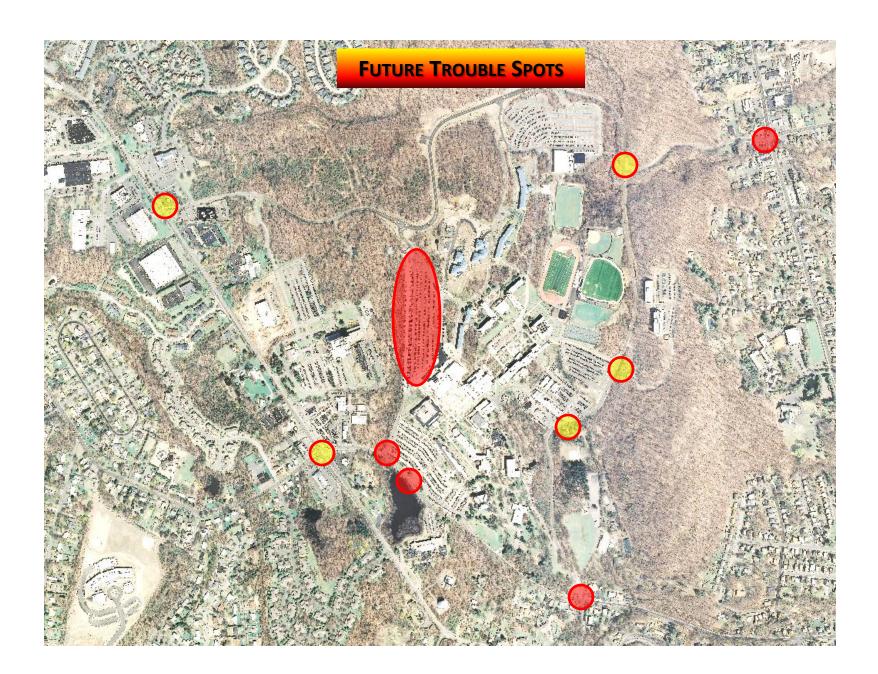
Intersection	Approach	8:30-9	8:30-9:30 am		4:30-5:30 pm	
		Delay	LOS	Delay	LOS	
Paterson Hamburg Tpke &	NB Left	47.8	D	56.0	Е	
Ratzer Rd/Pompton Rd	NB Through-Right	19.2	В	21.3	С	
(signalized)	SB Left	43.6	D	50.3	D	
	SB Through-Right	15.5	В	25.6	С	
	EB Approach	38.7	D	45.2	D	
	WB Left-Through	25.0	С	46.1	D	
	WB Right	5.0	Α	4.9	Α	
	Overall	26.0	С	33.9	С	
Paterson Hamburg Tpke &	NB Approach	18.9	В	7.2	Α	
College Rd	SB Approach	5.3	Α	29.6	С	
(signalized)	EB Approach	33.5	С	23.5	С	
	WB Left-Through	49.5	D	66.8	E	
	WB Right	12.8	В	7.4	Α	
	Overall	13.2	В	24.0	С	
Belmont Av &	NB Approach	12.2	В	10.8	В	
Overlook Av	SB Approach	15.2	В	13.9	В	
(signalized)	EB Left	32.7	С	38.0	D	
	EB Through-Right	22.1	С	29.3	С	
	WB Left	23.4	С	31.5	С	
	WB Through-Right	29.3	С	24.7	С	
	Overall	19.7	В	22.1	С	
Pompton Rd &	EB Approach	11.6	В	9.1	Α	
West Rd (Entry 4)	SB Left	1145.2	F	9999	F	
	SB Right	15.1	С	29.5	D	

Intersection	Approach	8:30-9:	30 am	4:30-5:	30 pm
		Delay	LOS	Delay	LOS
Pompton Rd &	EB Approach	4.2	Α	2.4	Α
East Rd (Entry 1) /	WB Approach	1.3	Α	0.8	Α
Allsa Av	NB Approach	443.3	F	158.4	F
	SB Left-Through	316.6	F	782.1	F
	SB Right	16.3	С	17.1	С
Pompton Rd &	SB Left	27.3	D	107.8	F
Lot 3 Exit	SB Right	14.7	В	18.3	С
Valley Rd &	EB Approach	0.8	Α	0.4	Α
1600 Valley Rd Dwy	SB Left	37.0	Е	72.0	F
	SB Right	16.0	С	11.2	В
College Rd &	EB Through	10.7	В	16.5	С
West Rd	EB Right	8.8	Α	8.4	Α
(all way stop)	WB Left	10.6	В	10.3	В
	WB Through	13.4	В	14.0	В
	NB Left	10.4	В	12.3	В
	NB Right	9.4	Α	10.2	В
W Overlook Av &	WB Approach	18.7	С	14.9	В
East Rd	NB Approach	9.8	Α	10.7	В
(all way stop)	SB Approach	12.4	В	26.4	D
College Rd &	EB Approach	10.4	В	14.8	В
Lot 6 Entrance	WB Left	7.7	Α	7.5	Α
(all way stop)	WB Through	14.8	В	12.2	В
College Rd &	EB Approach	9.3	Α	15.6	С
Lot 6 Exit	WB Approach	14.7	В	12.6	В
(all way stop)	NB Left	8.8	Α	10.1	В
	NB Right	7.4	Α	8.2	Α
East Rd &	EB Approach	2.0	Α	0.7	Α
Lot 1	SB Approach	11.5	В	10.4	В
East Rd &	NB Approach	3.7	Α	1.8	Α
Lot 2	EB Approach	10.6	В	10.4	В
East Rd &	NB Approach	1.1	Α	0.3	Α
Access Rd	EB Approach	9.9	Α	10.1	В

Future Level of Service

Intersection	Approach	8:30-9	:30 am	4:30-5	30 pm
		Delay	LOS	Delay	LOS
Paterson Hamburg Tpke &	NB Left	48.9	D	57.8	E
Ratzer Rd/Pompton Rd	NB Through-Right	20.4	С	22.1	С
(signalized)	SB Left	45.0	D	53.4	D
	SB Through-Right	16.3	В	27.1	С
	EB Approach	40.2	D	48.9	D
	WB Left-Through	25.0	С	50.0	D
	WB Right	4.9	Α	4.8	Α
	Overall	27.0	С	36.3	D
Paterson Hamburg Tpke &	NB Left	13.0	В	13.5	В
College Rd	NB Through-Right	18.9	В	17.2	В
(signalized)	SB Left	19.8	В	18.3	В
	SB Through-Right	4.2	Α	10.7	В
	EB Approach	32.0	С	23.5	С
	WB Left-Through	49.0	D	70.1	E
	WB Right	12.2	В	10.6	В
	Overall	15.4	В	19.2	В
Belmont Av &	NB Approach	12.7	В	10.9	В
Overlook Av	SB Approach	17.2	В	14.2	В
(signalized)	EB Left	80.5	F	43.7	D
	EB Through-Right	22.8	С	30.4	С
	WB Left	23.9	С	34.1	С
	WB Through-Right	35.9	D	25.2	С
	Overall	25.7	С	23.5	С
Pompton Rd &	EB Approach	13.8	В	9.9	Α
West Rd (Entry 4)	SB Left	9999	F	9999	F
	SB Right	15.7	С	30.9	D

Intersection	Approach	8:30-9:	8:30-9:30 am		4:30-5:30 pm	
		Delay	LOS	Delay	LOS	
Pompton Rd &	EB Approach	6.4	Α	3.6	Α	
East Rd (Entry 1) /	WB Approach	1.3	Α	0.8	Α	
Allsa Av	NB Approach	9999	F	399.0	F	
	SB Left-Through	9999	F	9999	F	
	SB Right	17.6	С	20.7	С	
Pompton Rd &	SB Left	34.2	D	108.4	F	
Lot 3 Exit	SB Right	15.1	С	16.7	С	
Valley Rd &	EB Approach	1.9	Α	0.7	Α	
1600 Valley Rd Dwy	SB Left	53.9	F	263.5	F	
	SB Right	18.2	С	14.2	В	
College Rd &	EB Through	12.0	В	18.4	С	
West Rd	EB Right	8.7	Α	8.3	Α	
(all way stop)	WB Left	10.6	В	10.0	В	
	WB Through	14.3	В	16.0	С	
	NB Left	10.5	В	12.2	В	
	NB Right	9.7	Α	10.5	В	
W Overlook Av &	WB Approach	31.7	D	18.4	С	
East Rd	NB Approach	10.9	В	13.7	В	
(all way stop)	SB Approach	17.5	С	36.7	E	
College Rd &	EB Approach	11.9	В	16.2	С	
Lot 6 Entrance	WB Left	7.4	Α	7.4	Α	
(all way stop)	WB Through	16.3	С	13.2	В	
College Rd &	EB Approach	10.7	В	16.7	С	
Lot 6 Exit	WB Approach	14.4	В	13.3	В	
(all way stop)	NB Left	8.9	Α	10.0	В	
	NB Right	7.6	Α	8.2	Α	
East Rd &	EB Approach	0.4	Α	0.2	Α	
Lot 1	SB Approach	12.0	В	11.7	В	
East Rd &	NB Approach	7.0	Α	4.2	Α	
Access Rd	EB Approach	17.1	С	26.9	D	



Transit Issues

- Circulation Issues through campus, especially in Lot 5 and Entry 4
- Need for a transit terminal with capacity for 4-5 buses
- High potential for increased service, which could reduce future traffic and parking needs

Bicycle and Pedestrian Issues

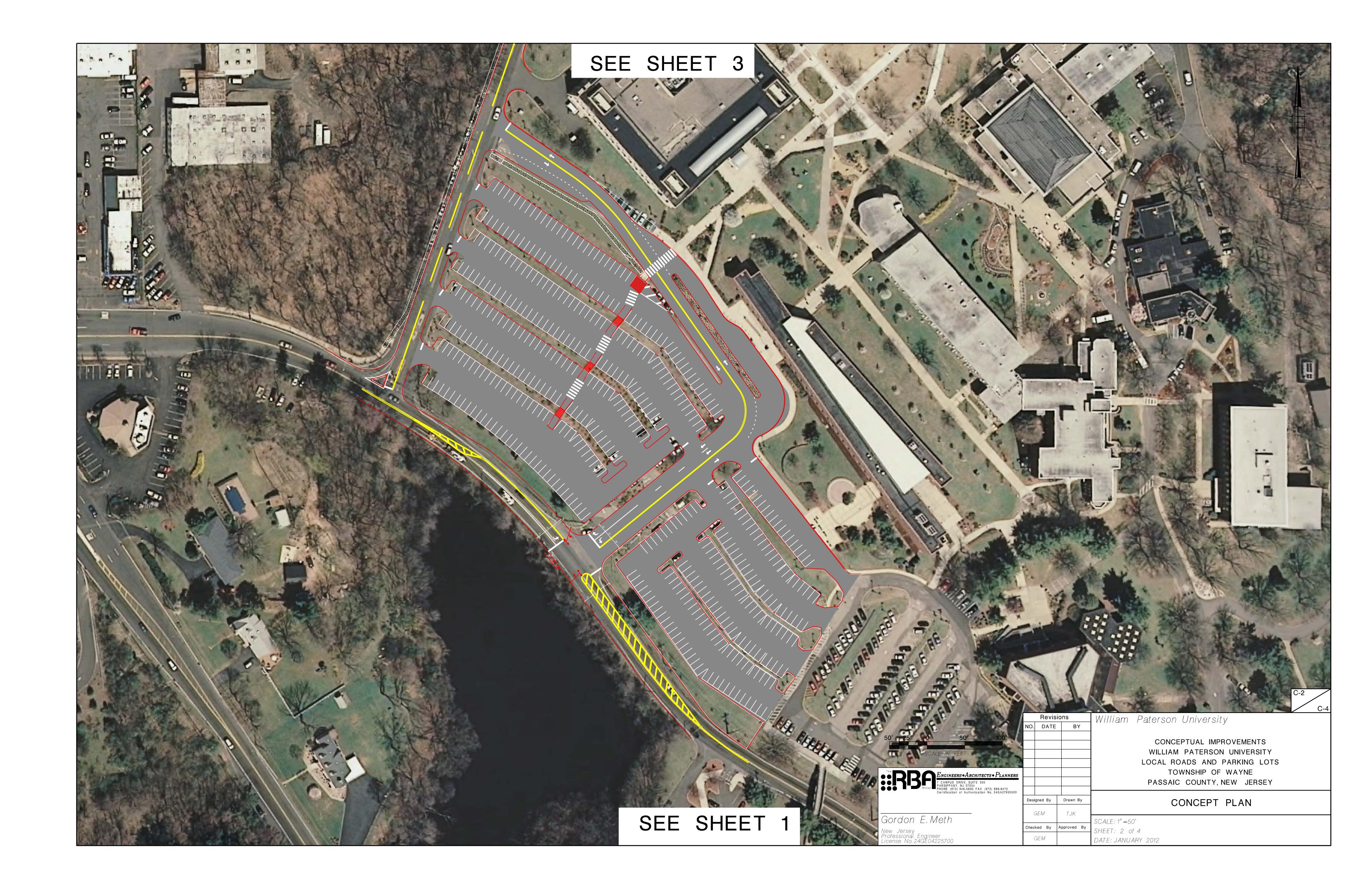
- Need for bicycle storage in dorms
- Need for sidewalk connection to Pompton Road
- Lot 6 stairs
- Lot 5 pedestrian accommodation
- No sidewalks on College Drive or W Overlook, but need is not significant

Entry 4 / Lot 3 Exit

ISSUE:

- Capacity problems
- Need sidewalk to Pompton Rd
- Need bus terminal

- Add traffic signal at Lot 3 Exit
- Create new roadway and bus terminal
- Add sidewalk to Pompton Road
- Cost of signal \$470,000
- Cost of other improvements \$360,000
- Loss of approx. 110 parking spaces

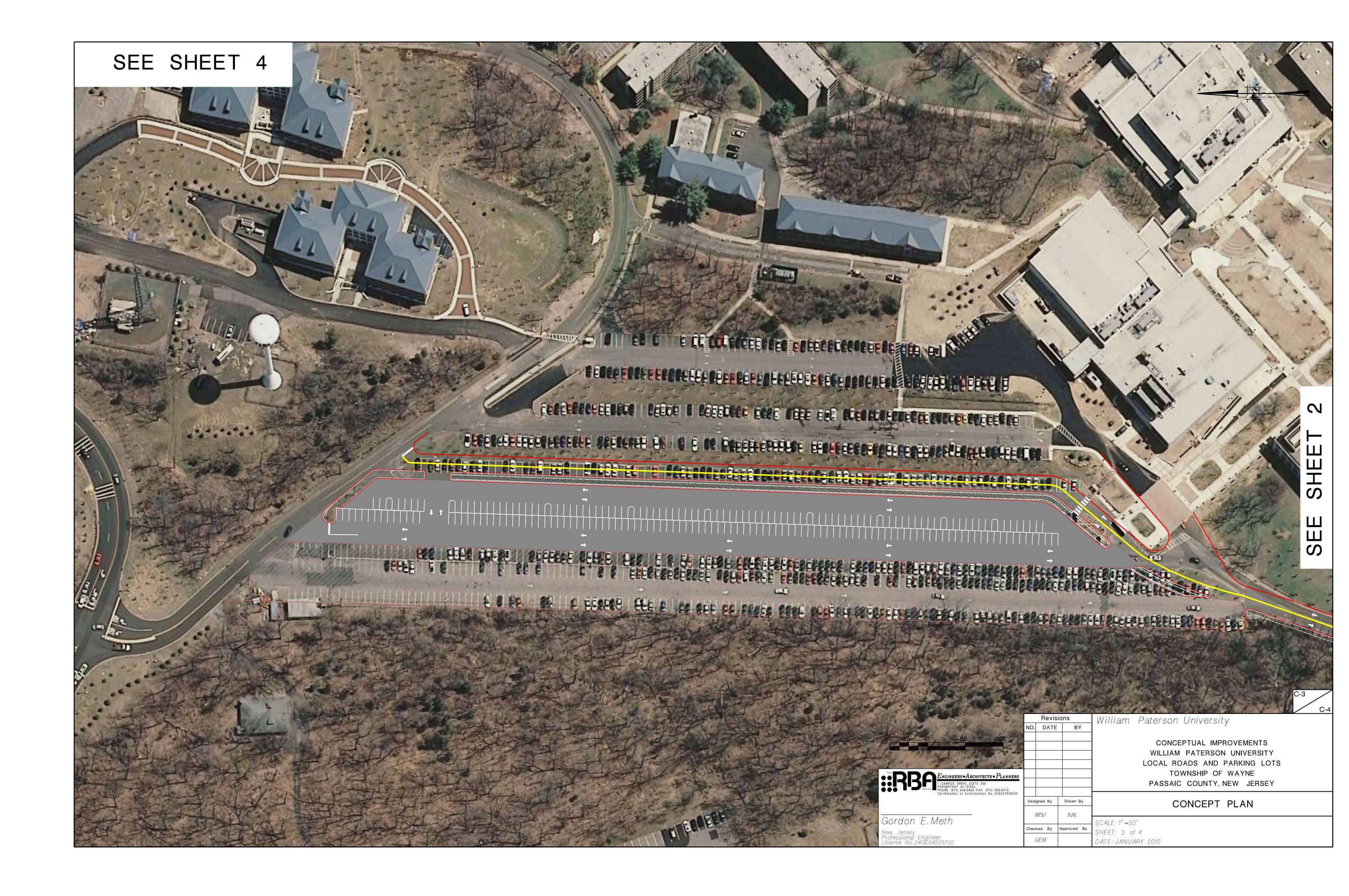


Lot 5

ISSUE:

- Conflicts between through traffic, parking maneuvers, pedestrians, and transit
- High degree of cruising for parking (due to proximity to campus)
- High number of crashes (158 in nearly 6 years –
 46% of crashes on campus)

- Move bus stop to Lot 3
- Meter parking in this lot reduces cruising and adds revenue
- Create "through" street and sidewalk
- Cost \$430,000; Loss of approx. 140 spaces



Entry 1

ISSUE:

- Capacity problems
- Sight distance issues
- Conflicts with Alisa Dr
- Parking lot next to driveway
- Existing case approx. 80 left/through out/hr
- Future case approx. 100 left/through out/hr

- Re-route left turns and through traffic to other driveways (Belmont Av or Exit from Lot 3)
- Use islands to separate parking / separate from Alisa Dr
- Cost = \$30,000



W. Overlook & East Dr

ISSUE:

Capacity problems in peaks

- Add channelized right turn lane
- Cost \$60,000



Existing Passaic County Signals

ISSUE:

Some capacity problems in peaks

- Add eastbound left turn arrow at Belmont and West Overlook
- Cost \$30,000 (worst case assumes new pole needed)
- Timing changes at Paterson-Hamburg Turnpike intersections (negligible costs)

1600 Valley Rd

ISSUE:

- Capacity problems in peaks, particularly afternoon
- Exacerbated by narrowing of Valley Rd
- 35 crashes in nearly 6 years (10% of total)

- Signalize Driveway
- Cost \$300,000
- Alternatively provide traffic control during peak departure times

Other

ISSUE:

- Minor access issues
- Pedestrian path / stairs through Lot 6

- Modify entrance to Lot 1 with Parking Deck
- Modify main entrance to Lot 2 with Parking Deck
- All way stop at Parking Deck access and East Dr
- All way stop by Police HQ
- Eliminate stops by Lot 6 Entrance
- Repair stairs in Lot 6

Total Program

Location	Cost	Priority		
Entry 1	\$ 30,000	Medium		
Pompton Rd Signal	\$ 470,000	High		
Entry 4/Lot 3 Exit	\$ 360,000	High		
Lot 5	\$ 430,000	Medium		
W Overlook & East Dr	\$ 60,000	Low		
Passaic County Signals	\$ 30,000	Medium		
1600 Valley Rd	\$ 300,000	Medium		
<u>Other</u>	\$ 5,000	Low		
TOTAL	\$1,685,000			