

15th Avenue / Mark Morris Court Traffic Signal

City Council Meeting
October 8, 2015

Presented By: Manuel Abarca
Traffic Engineer

15th Avenue / Mark Morris Court Traffic Signal



15th Avenue / Mark Morris Court Traffic Signal

Pedestrian Data

- Approximately 200 students per hour use crossing during first and second lunch periods.
- Staff observed over 60 crossing during a one-hour period.
- Average time traffic was stopped: 22 seconds
 - shortest stop time observed: 13 seconds
 - longest stop time observed: 48 seconds

15th Avenue / Mark Morris Court Traffic Signal

Pedestrian Data

- Significant pedestrian crossings generated by transit riders
- The Mark Morris Ct. bus stop has second highest boardings in entire transit service area
 - 4,889 boardings (Feb thru August 2015)
 - Ridership generated by Winco, Triangle Center, and Mark Morris HS

15th Avenue / Mark Morris Court Traffic Signal

Vehicle Traffic Count Data

Traffic Counts 9/15/15	15th Ave	15th Ave	MM Court
	NB	SB	EB+WB
8:00 AM	149	193	246
12:00 Noon	498	333	84
3:00 PM Dismissal	482	371	188
5:00 PM	534	336	90
7:00 PM Evening Event	252	279	148
24 hour	5,429	4,055	1,377

15th Avenue / Mark Morris Court Traffic Signal

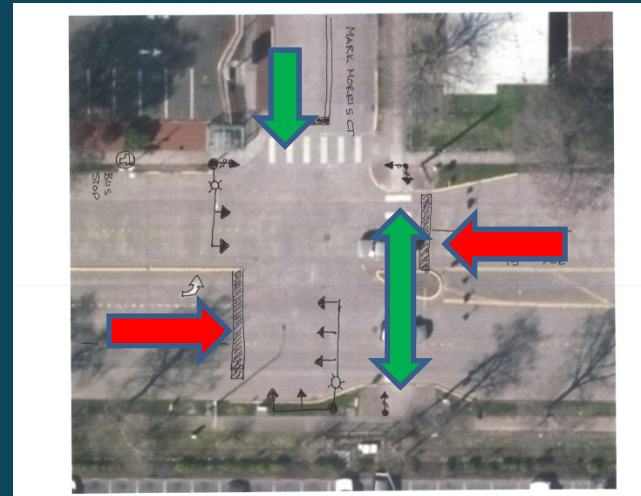
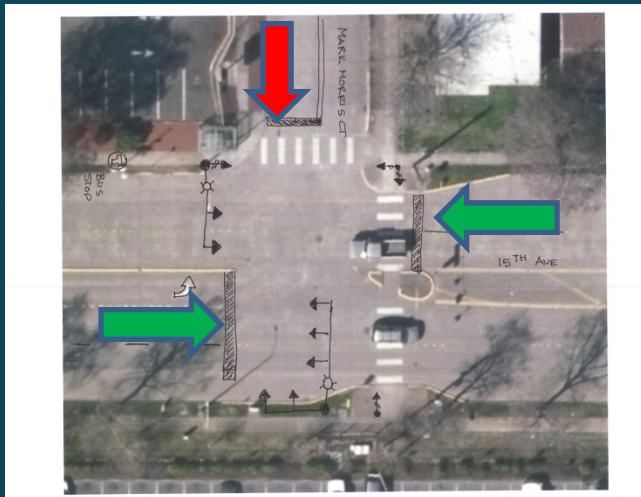
Phasing Options

2-Phase Operation

Phase 1

60 sec cycle

Phase 2



Level of Service A

Pros

Very efficient
Minimal Delay

Cons

Less protection for
pedestrians

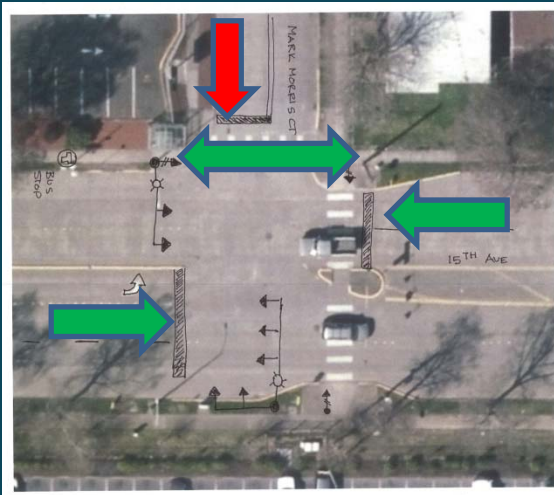
15th Avenue / Mark Morris Court Traffic Signal

Phasing Options

3-Phase Operation

80 sec cycle

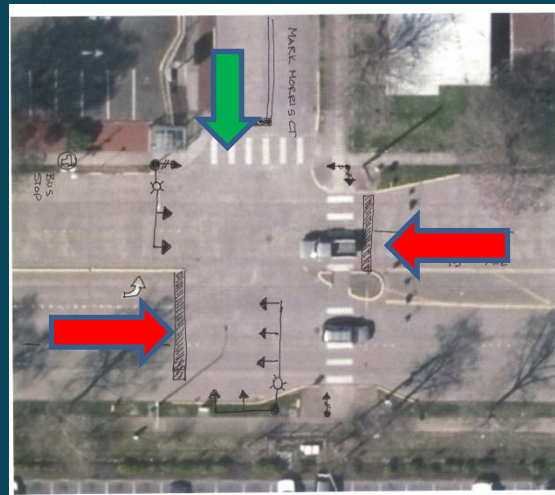
Phase 1



Pros

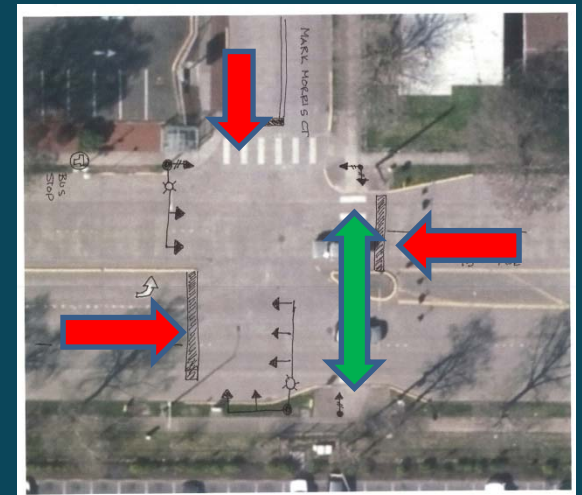
Greater pedestrian protection

Phase 2



Level of Service B

Phase 3



Cons

Slight increase in
vehicle delay

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Installation Cost

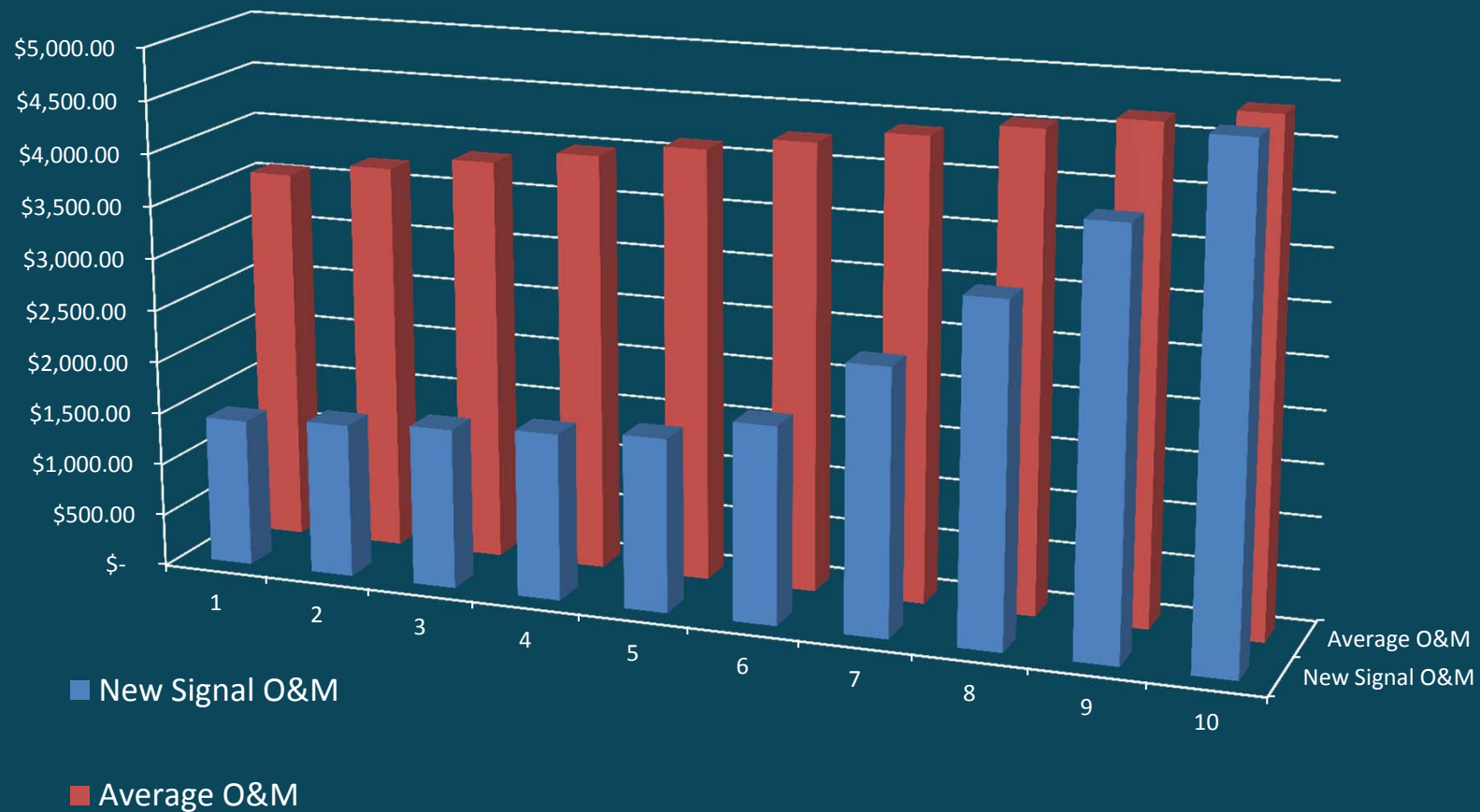
- Estimated project cost: \$327,000

Funding Sources

- FHWA Pedestrian Safety Grant: \$294,000
- Longview School District: \$ 15,000
- City Public Safety Fund: \$ 18,000

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Maintenance and Operation Cost



15th Ave at Mark Morris Court Traffic Signal

Staff Recommendation

- Accept the grant and construct a traffic signal at Mark Morris Court
- Remove the school zone after traffic signal is completed
- Work with school district to educate students on obeying the traffic signal