

# Archer Road/SW 16<sup>th</sup> Ave.

Archer Road (SR 24)/SW 16th Avenue (SR 226) PD&E Study

## PRESENTATION TO METROPOLITAN TRANSPORTATION PLANNING ORGANIZATION (MTPO)



Kimley-Horn  
and Associates, Inc.

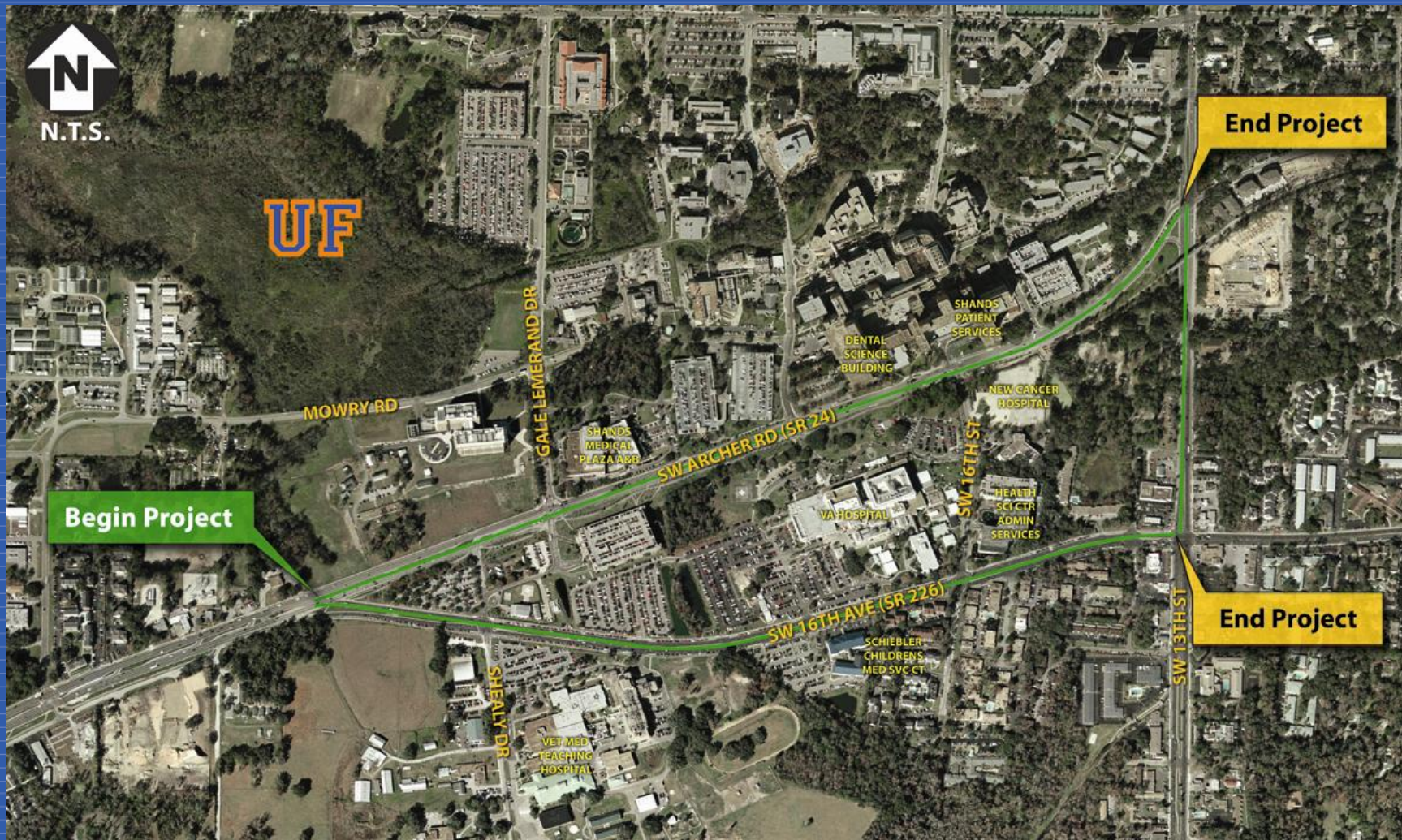
## Purpose of This Meeting

- Provide you with an update of the project
- Present alternatives being considered
- Obtain your input



# Archer Road

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## Purpose and Need for this Project

- High mix of pedestrian travel and vehicles on Archer Road
- Archer Road is a State Road and design changes must meet state requirements before Archer Road is taken off of the state system. This requires a Project Development and Environment (PD&E) Study.
- Prove that SW 16<sup>th</sup> Avenue and SW 13<sup>th</sup> Street can accommodate future traffic demand.

## Project Development & Environment (PD&E) Study

The objectives of a PD&E study are to perform necessary social, environmental, and engineering studies of a proposed transportation improvement to support decisions concerning whether and where it should be built and what will be the basic design concepts.



## Pedestrian Movement



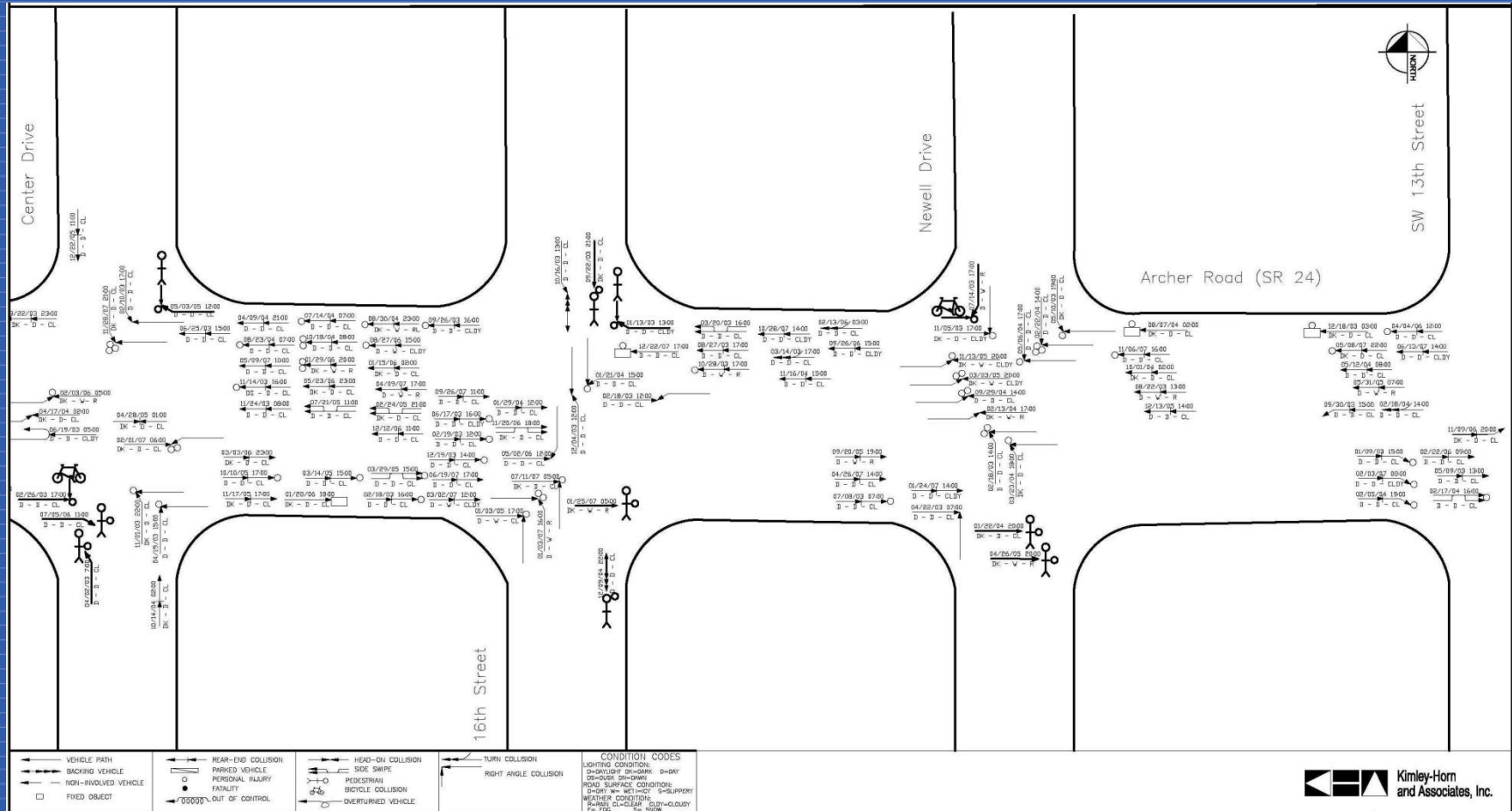
## Pedestrian Movement

AM Peak Hour - 7:30AM	Tues 3/21/2006 - from Shands Report				Wed 3/22/2006 - from Shands Report				November 8th, 2007				September 4th, 2008			
	SB	WB	NB	EB	SB	WB	NB	EB	SB	WB	NB	EB	SB	WB	NB	EB
<b>Archer Road</b>																
SW 16th Avenue	0	8	16	32	0	6	24	37	12	1	2	0	0	39	9	19
Gale Lemerand	6	79	69	5	7	53	38	1	11	94	36	27	-	-	-	-
Center Drive	15	31	32	37	21	29	39	32	4	21	33	22	-	-	-	-
SW 16th Street	10	40	24	221	14	43	34	221	1	14	19	241	-	-	-	-
Newell Drive	6	27	50	3	12	30	52	8	8	7	28	16	-	-	-	-
SW 13th Street	2	5	38	4	0	8	58	5	2	21	2	2	-	-	-	-
Shealy	-	-	-	-	-	-	-	-	-	-	-	-	4	1	9	13
VA Driveway	-	-	-	-	-	-	-	-	-	-	-	-	4	5	13	21
VA Hospital Signal	-	-	-	-	-	-	-	-	-	-	-	-	2	13	5	35
SW 16th Street	12	45	25	103	12	37	35	125	-	-	-	-	8	30	38	66
SW 14th Street	-	-	-	-	-	-	-	-	-	-	-	-	12	44	4	27
SW 13th Street	28	8	14	21	25	1	23	11	-	-	-	-	16	38	24	27
<b>PM Peak Hour - 4:30 PM</b>																
<b>Archer Road</b>																
SW 16th Avenue	0	2	11	21	0	6	12	21	2	3	13	0	1	33	7	17
Gale Lemerand	16	49	3	6	6	47	24	5	20	58	45	1	-	-	-	-
Center Drive	23	18	38	20	50	21	43	43	33	7	15	13	-	-	-	-
SW 16th Street	18	35	9	187	17	45	39	179	7	8	11	178	-	-	-	-
Newell Drive	31	8	6	12	32	16	41	42	11	1	6	7	-	-	-	-
SW 13th Street	11	16	7	3	1	37	16	7	3	26	3	21	-	-	-	-
Shealy	-	-	-	-	-	-	-	-	-	-	-	-	2	11	9	5
VA Driveway	-	-	-	-	-	-	-	-	-	-	-	-	4	30	6	3
VA Hospital Signal	-	-	-	-	-	-	-	-	-	-	-	-	2	22	3	16
SW 16th Street	95	26	6	8	107	17	10	13	-	-	-	-	72	22	11	10
SW 14th Street	-	-	-	-	-	-	-	-	-	-	-	-	10	54	19	32
SW 13th Street	3	35	12	7	8	25	16	18	-	-	-	-	10	39	34	50

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## Crash Data – Archer Rd.

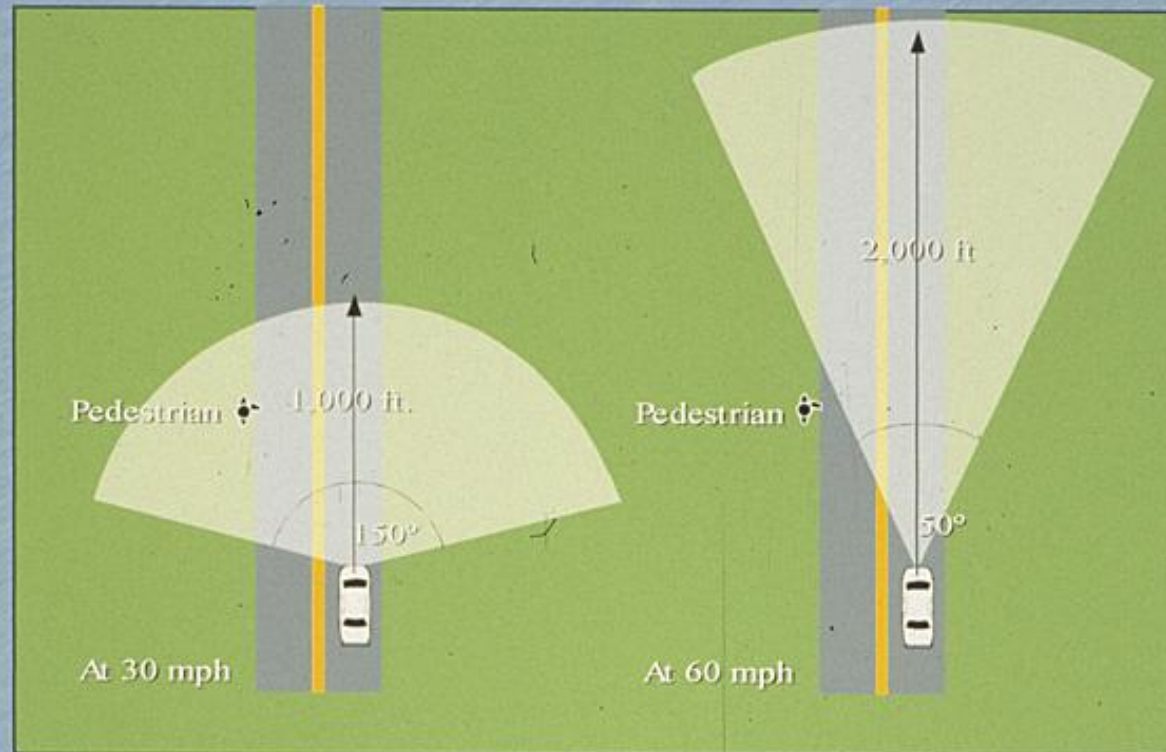




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## Seeing Pedestrians



Sixteen percent of all people killed in motor vehicle accidents are pedestrians or bicyclists.

Source: Insurance Institute for Highway Safety, Fatality Facts 1993

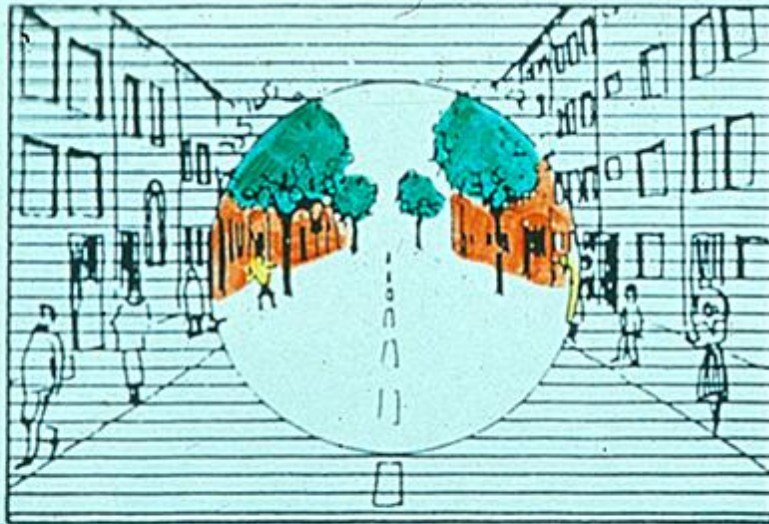




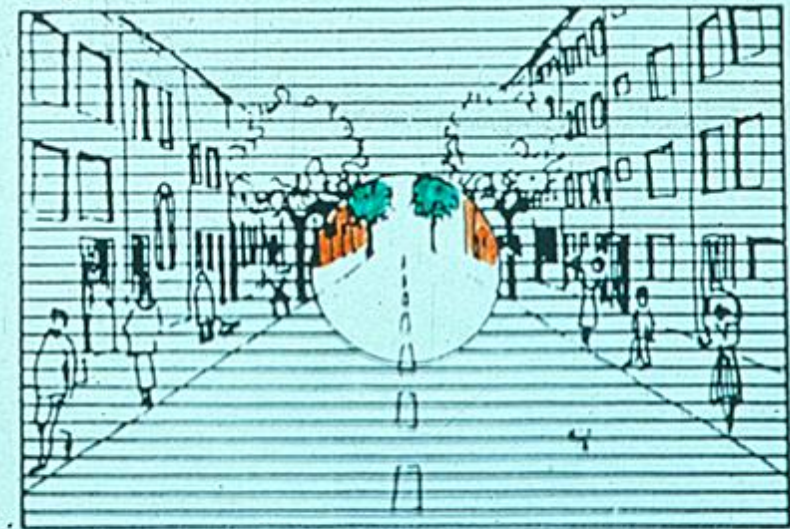
**15 MPH**



**20 MPH**



**25 MPH**



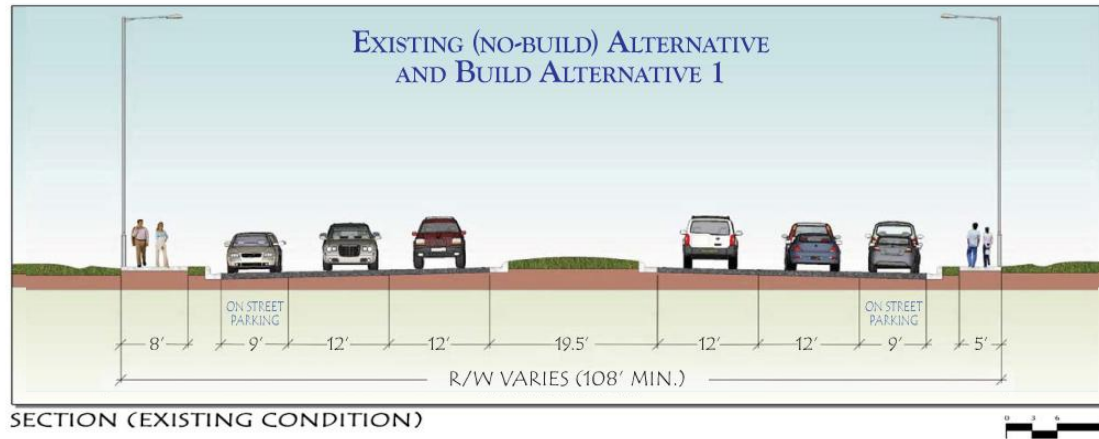
**30 MPH**

## SW 16<sup>th</sup> Avenue and Archer Road

- Alternatives
- Traffic
- Intersection Geometrics



## SW 16<sup>th</sup> Ave. - Existing and Alternative 1



DETAIL PERSPECTIVE

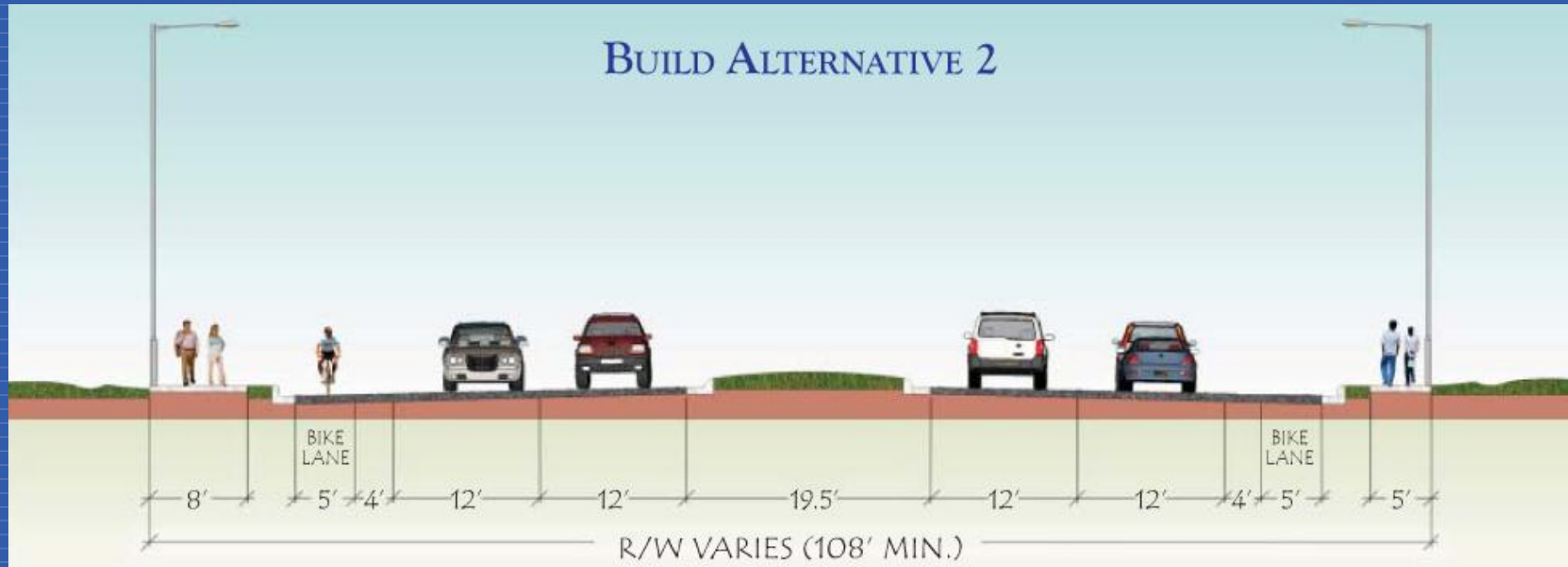


PERSPECTIVE

# Archer Road

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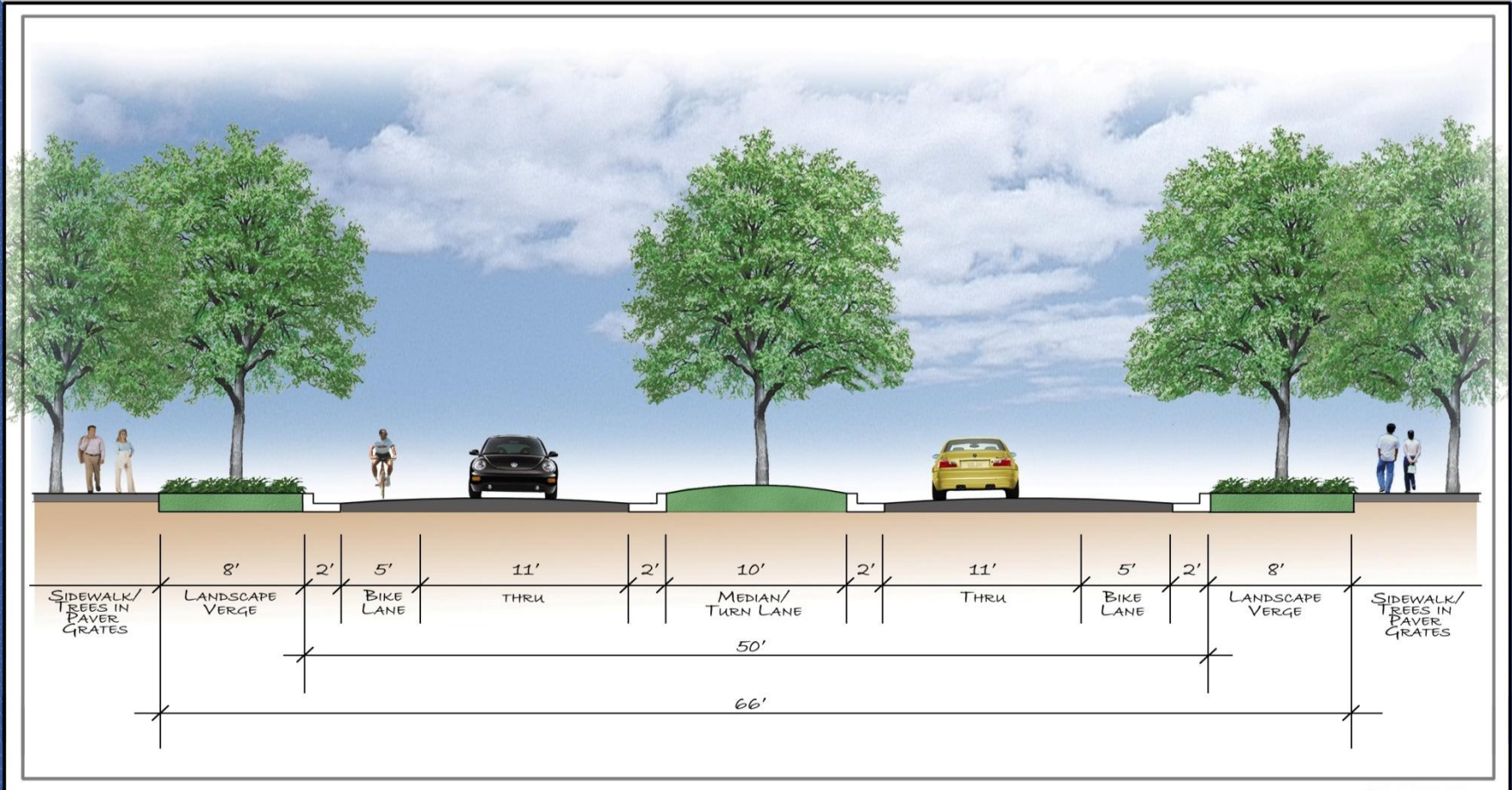
## SW 16<sup>th</sup> Ave. – Alternative 2



# Archer Road

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## Archer Rd. – Typical Section Alternatives From Center Drive to west of SW 13<sup>th</sup> Street





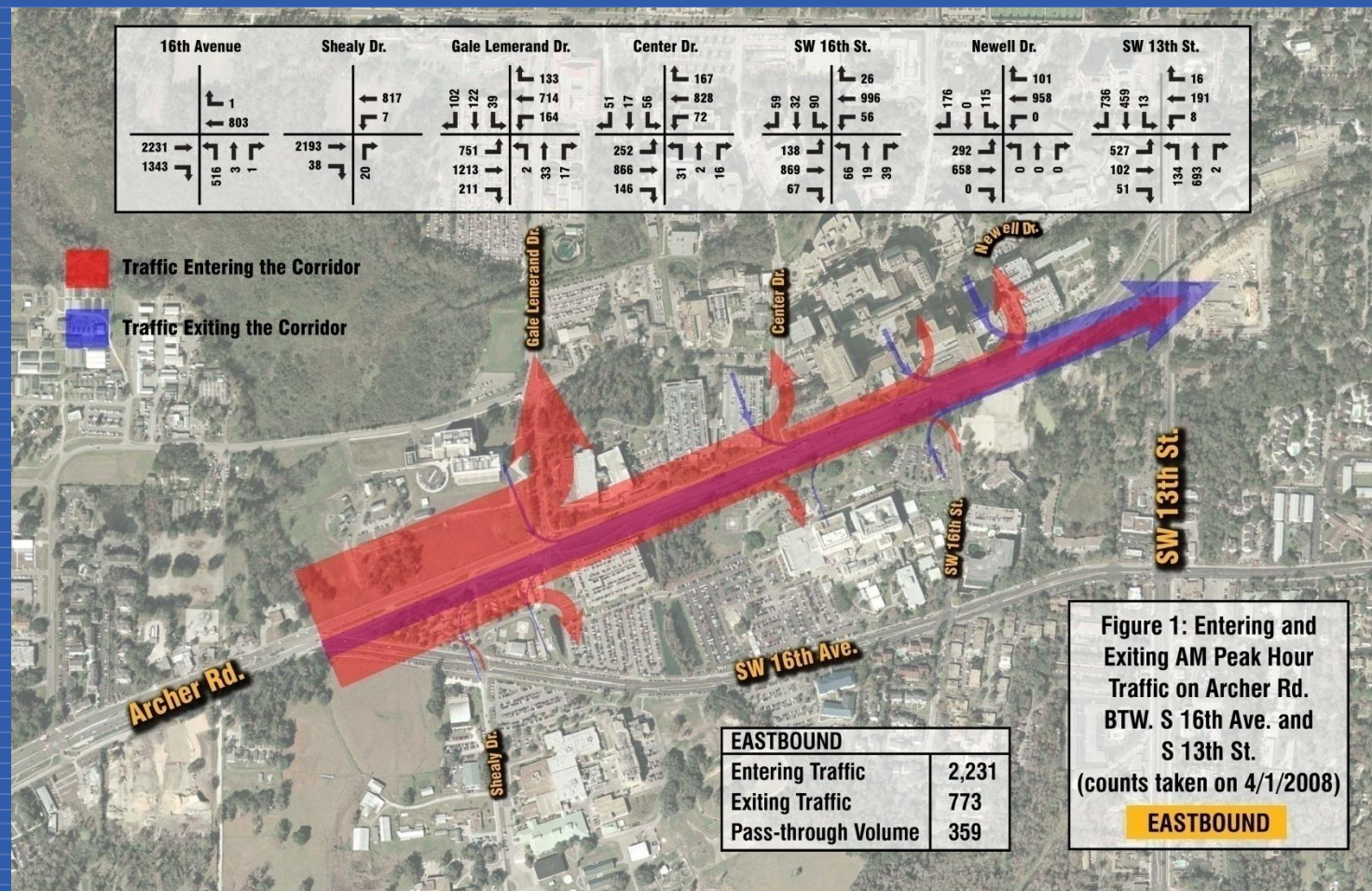
## SW 16<sup>th</sup> Avenue and Archer Road

- Alternatives
- Traffic
- Intersection Geometrics

# Archer Road

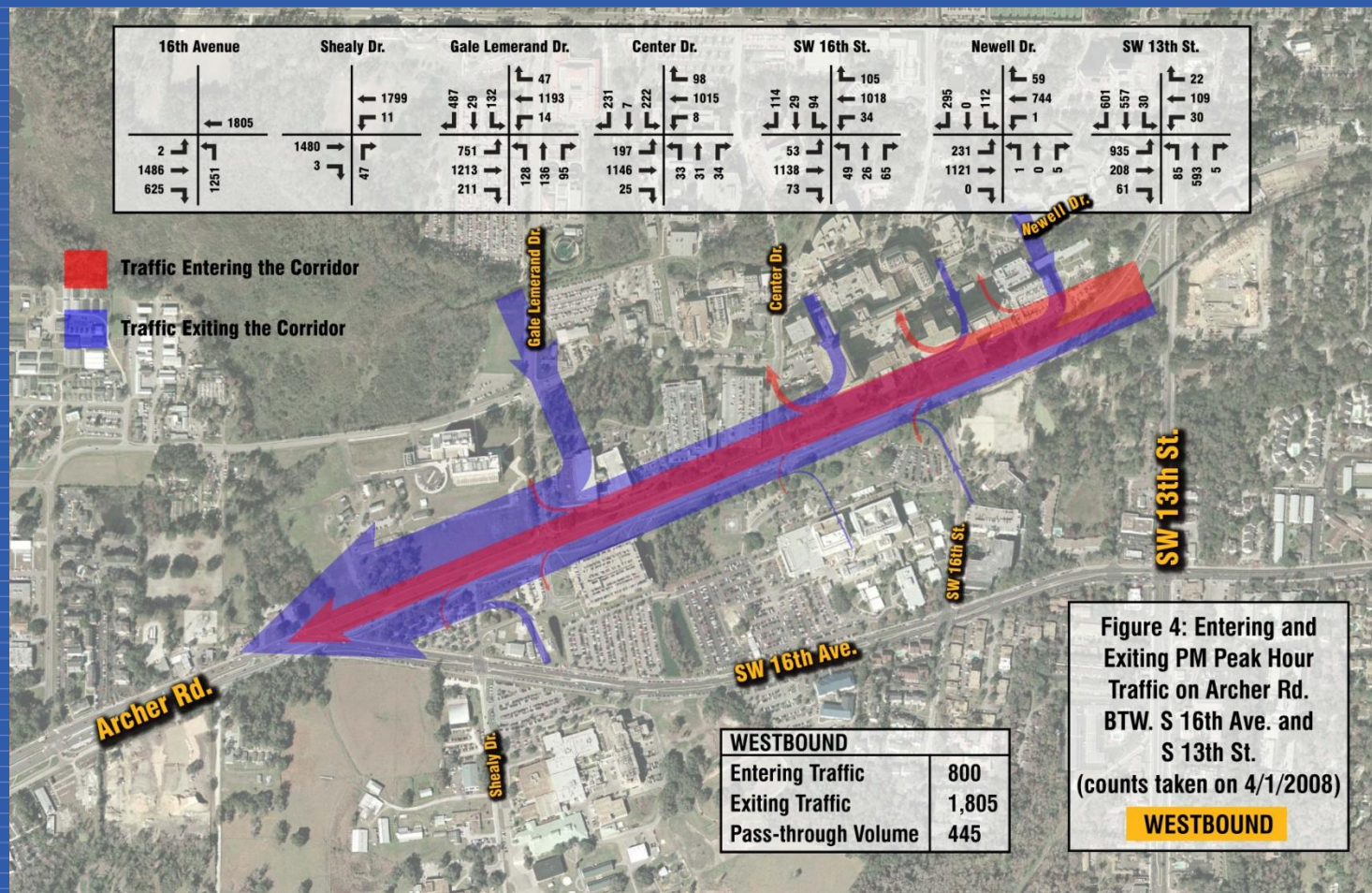
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## Archer Road – Existing AM Peak





## Archer Road – Existing PM Peak

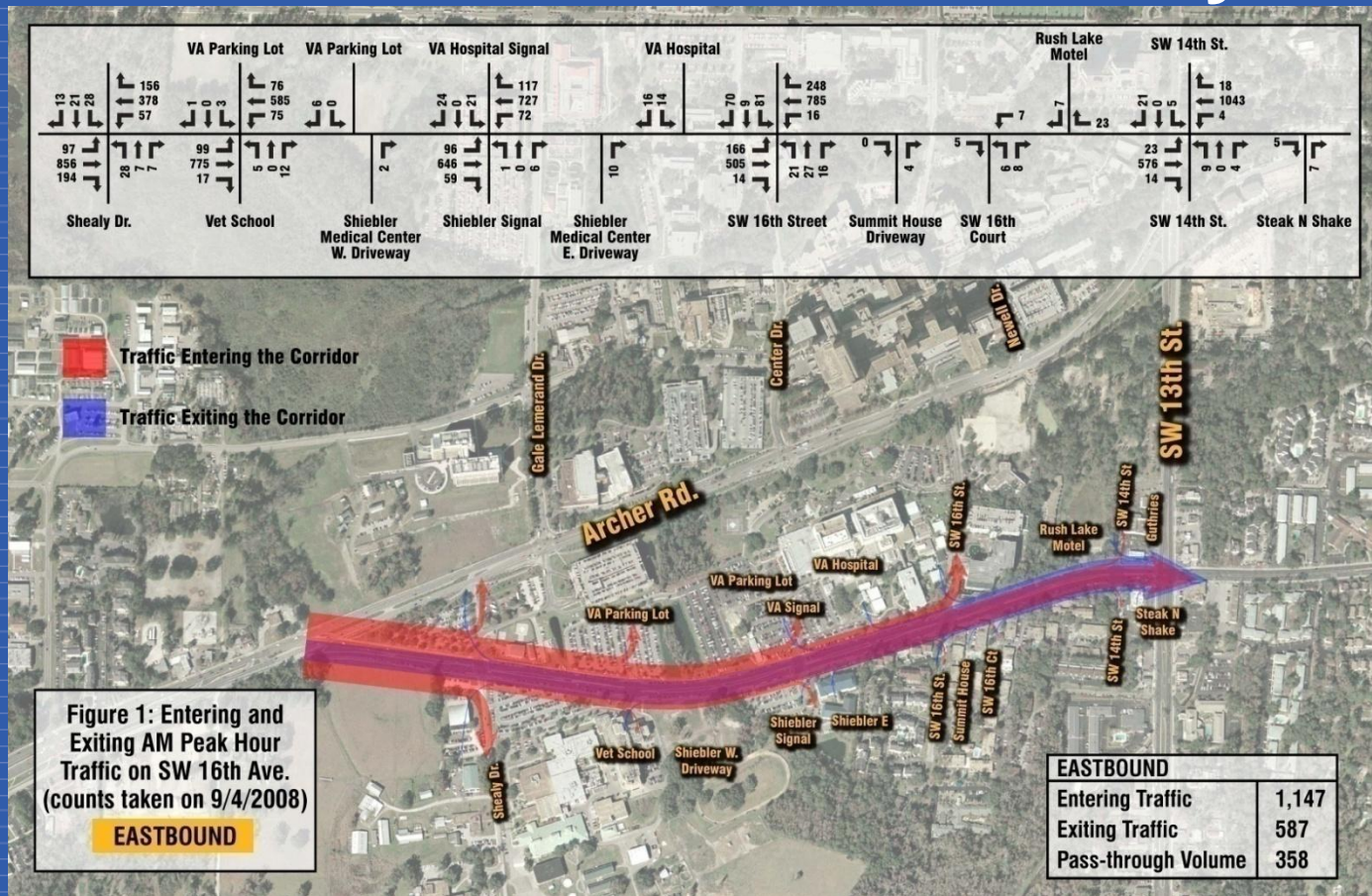




# Archer Road

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## SW 16<sup>th</sup> Ave – Existing AM Peak Eastbound: Archer to Shealy

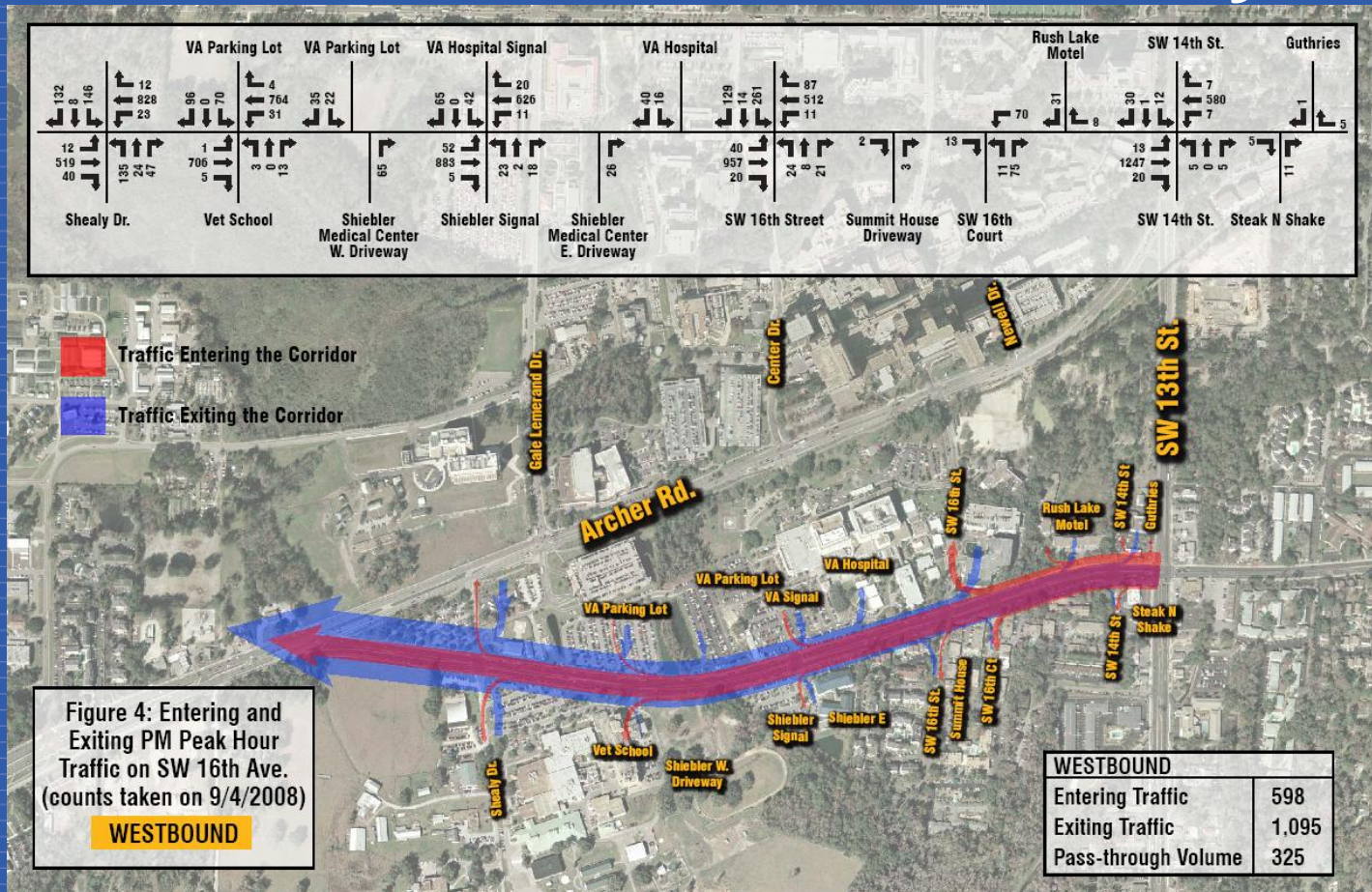




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## SW 16<sup>th</sup> Ave – Existing PM Peak Westbound: Archer to Shealy

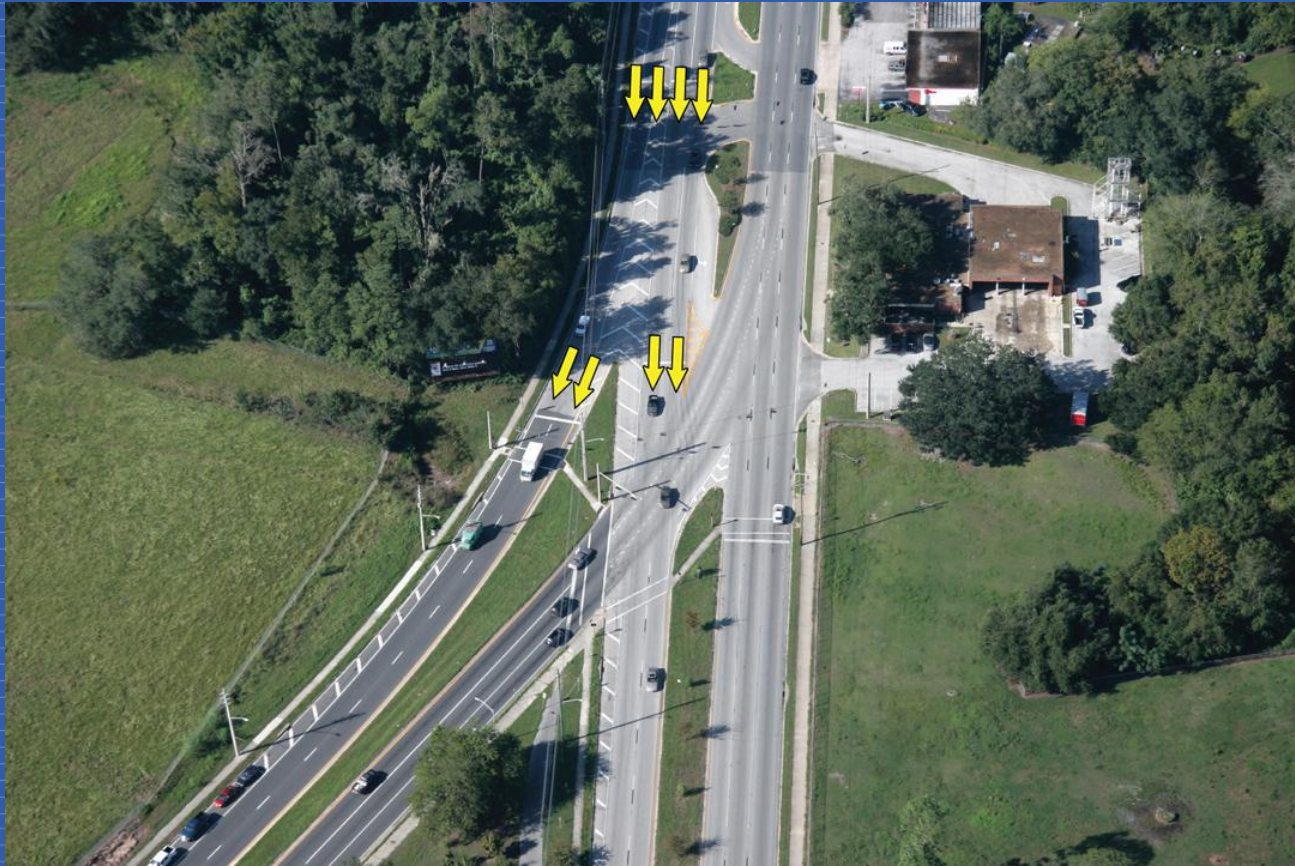


## SW 16<sup>th</sup> Avenue and Archer Road

- Alternatives
- Traffic
- Intersection Geometrics

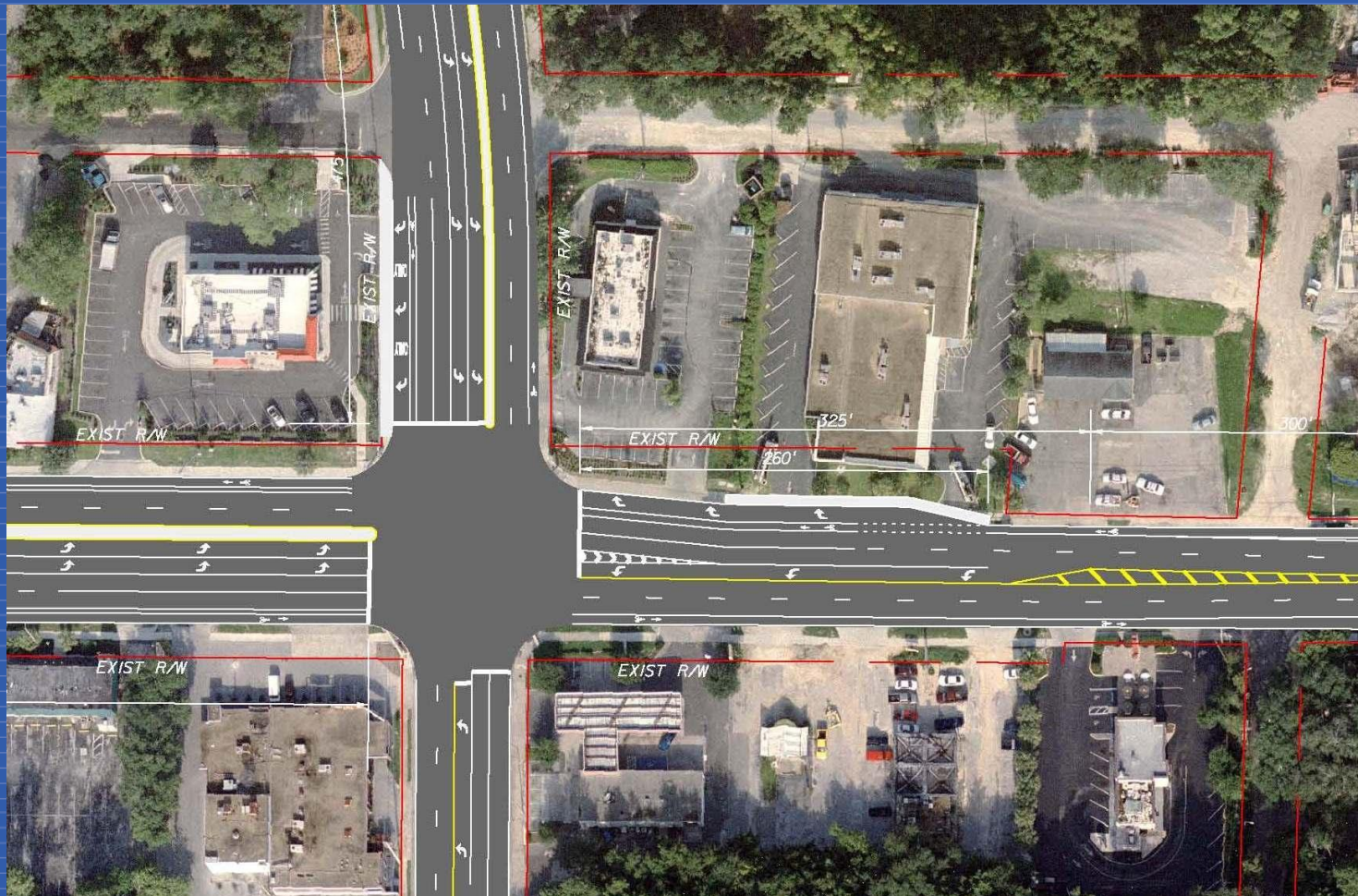


## SW 16<sup>th</sup> Ave. and Archer Rd.





## SW 16<sup>th</sup> Ave. and SW 13<sup>th</sup> St.





## Archer Rd. and SW 13<sup>th</sup> St.





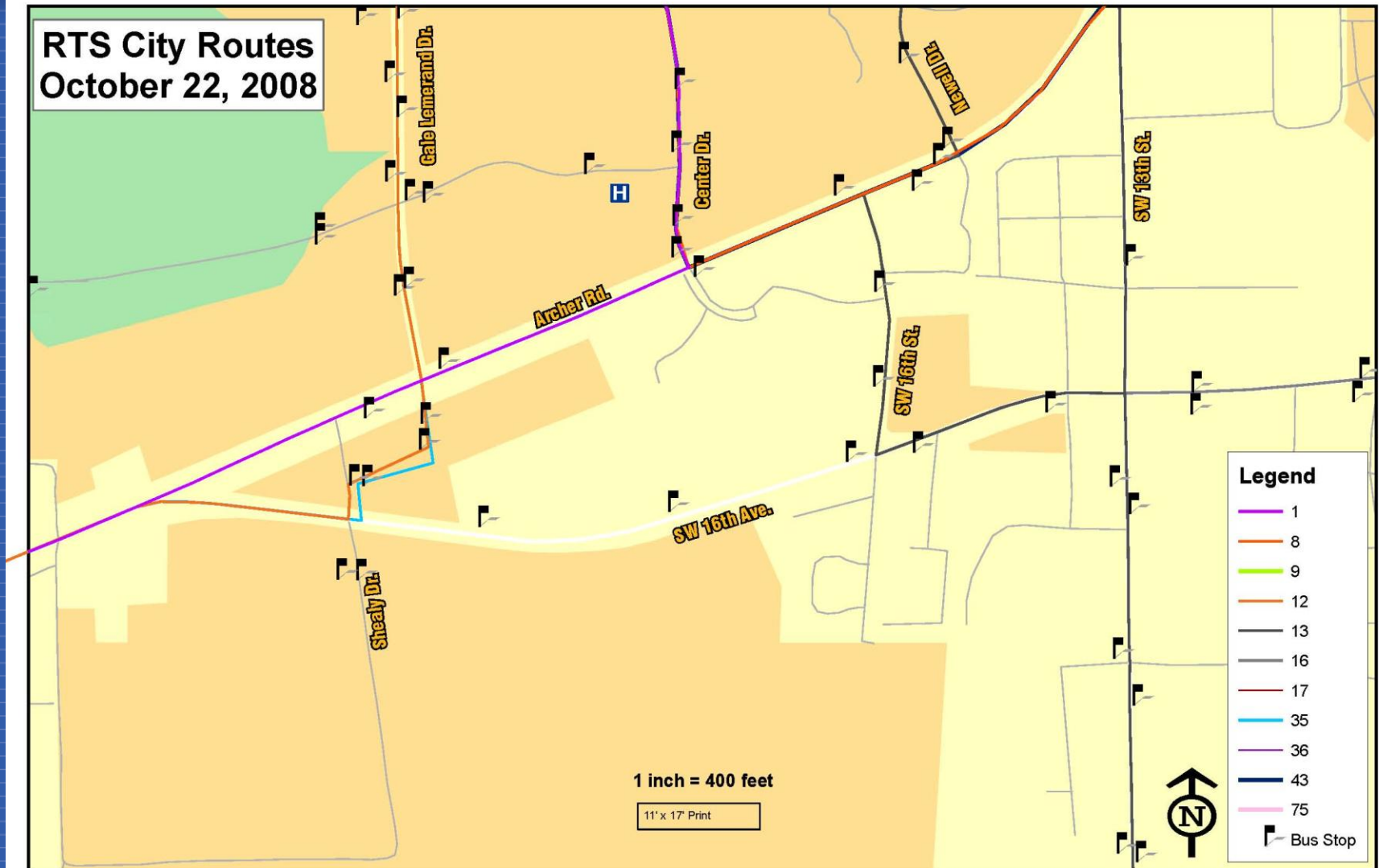
## Bus transit



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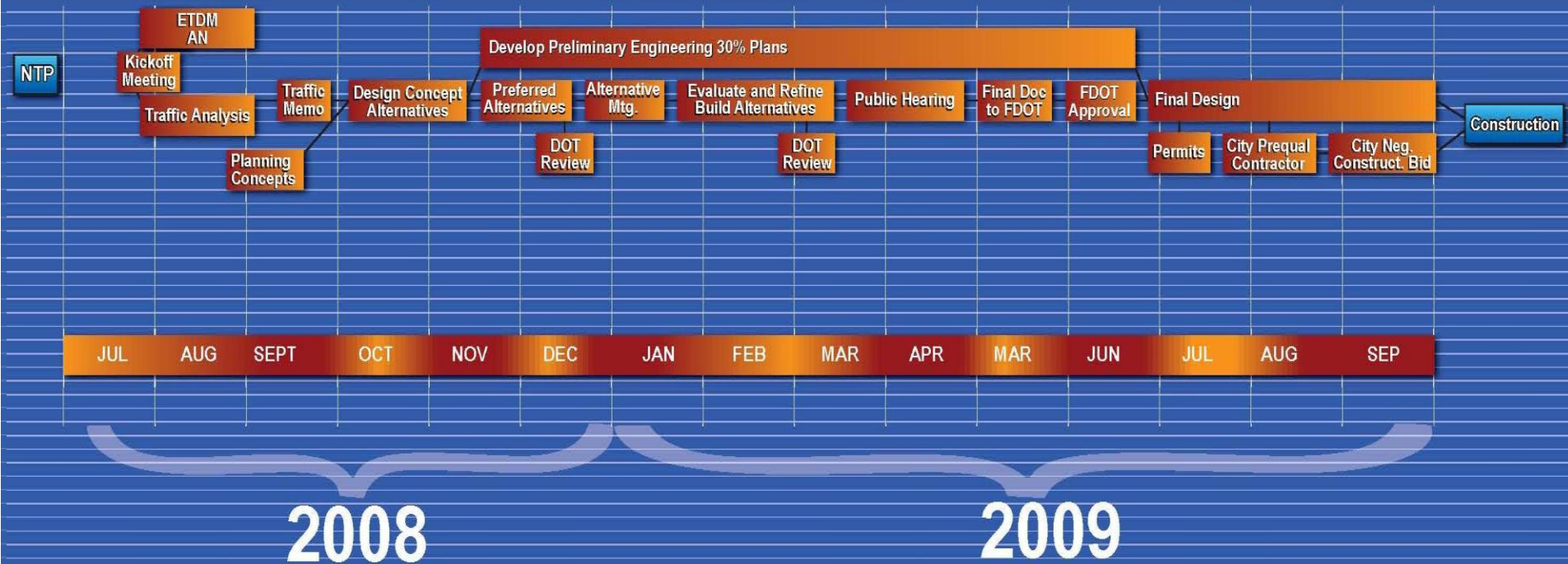
**RTS City Routes**  
October 22, 2008



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## Major Milestones





## What's Next

- December 9, 2008 – Public Alternatives Meeting
- April 16, 2009 – Public Hearing

## Contact Information

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[www.ArcherRoadPDE.com](http://www.ArcherRoadPDE.com)

# Your Input