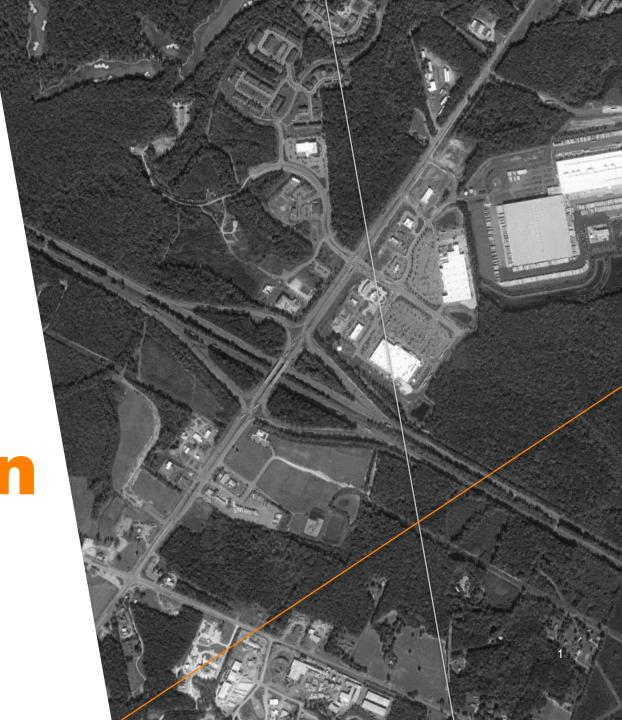


Zion Crossings Small Area Plan

February 25, 2021

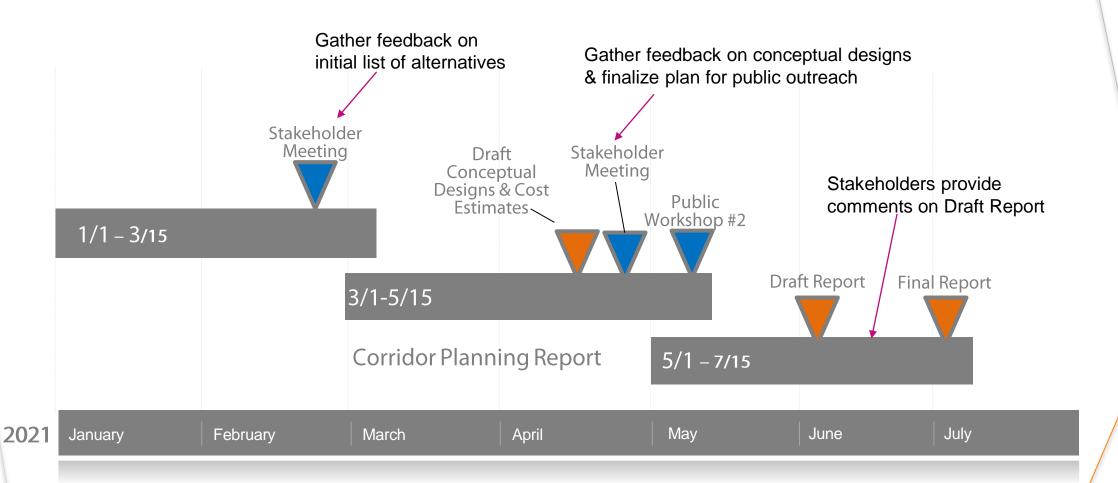
Virtual Meeting



Agenda

- Welcome and Introductions
- Schedule
- Review of Project Purpose
- Review of Public Outreach
- Alternatives Development
 - Intersection Improvements
 - Corridor and/or Segment Treatments
- Next Steps and Next Meeting

Phase 2 Study Schedule

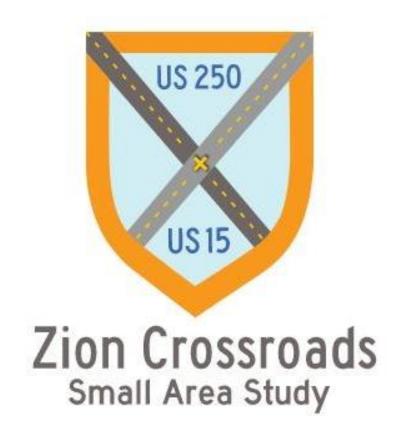




Review of Project Purpose

Identify and vet operational and safety improvements along US 15 and US 250

- Engage stakeholders
- Confirm project goals
- Develop measures of effectiveness
- Evaluate and select potential solutions



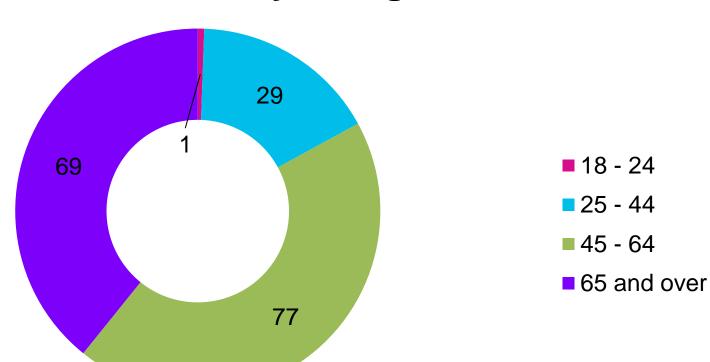
Public Meeting Results

Who did we reach?

- 319 Visitors to MetroQuest Survey
- **218** Survey Participants



What is your age?

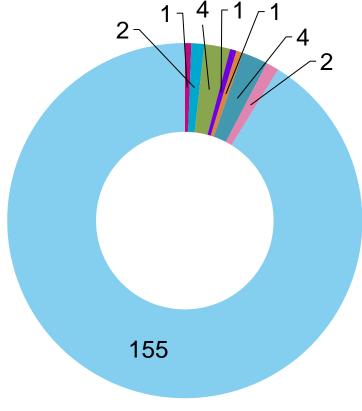


KEY FINDING:

39% of the respondents were older drivers and a single respondent was under the age of 24.



What is your race or ethnic background?



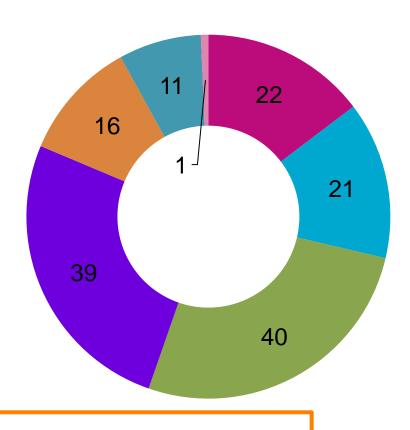
- American Indian or Alaska Native
- Asian
- Black or African American
- Hispanic or Latino
- Native Hawaiian or other Pacific Islander
- Other
- Two or more races
- White

KEY FINDING:

91% of the respondents were white.



What is your total yearly household income?



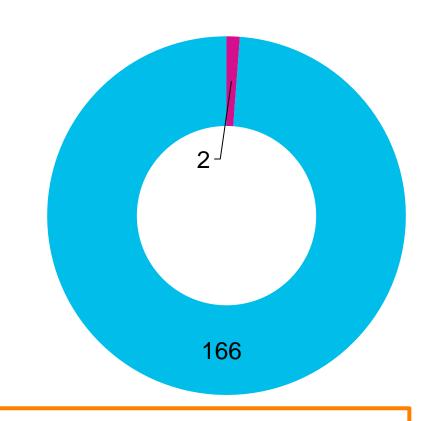
- \$200,000 or more
- **\$150,000 to \$199,999**
- ■\$100,000 to \$149,999
- **\$75,000 to \$99,999**
- \$50,000 to \$74,999
- **\$20,000 to \$49,999**
- Less than \$20,000

KEY FINDING:

19% of the respondents had yearly household incomes less than \$75,000.



Is English your first language?



KEY FINDING:

99% of the respondents spoke English as their first language. Other languages spoke included Russian, Tagalog and "Other."



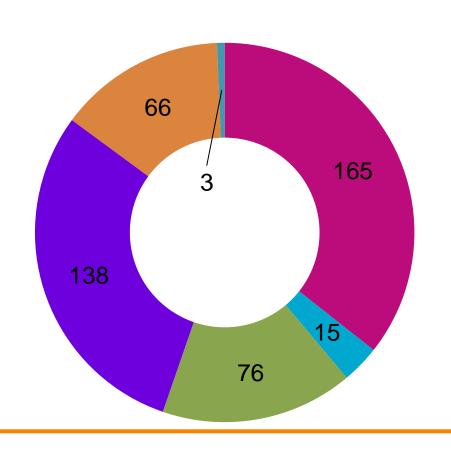
No

Yes

What did they say?



What is your relationship to Zion Crossroads?



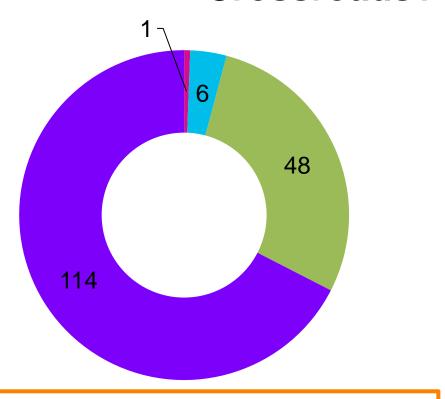
- I live along US 15 or US 250.
- I work along US 15 or US 250.
- I commute through US 15 or US 250.
- I complete my shopping along US 15 or US 250.
- I use US 15 or US 250 for recreational purposes.
- I use the Park & Ride lot in Zion Crossroads.

KEY FINDING:

Over 35% of all respondents live along US 15 or US 250 and 30% complete their shopping along these same sections.



How often do you travel in or through Zion Crossroads?



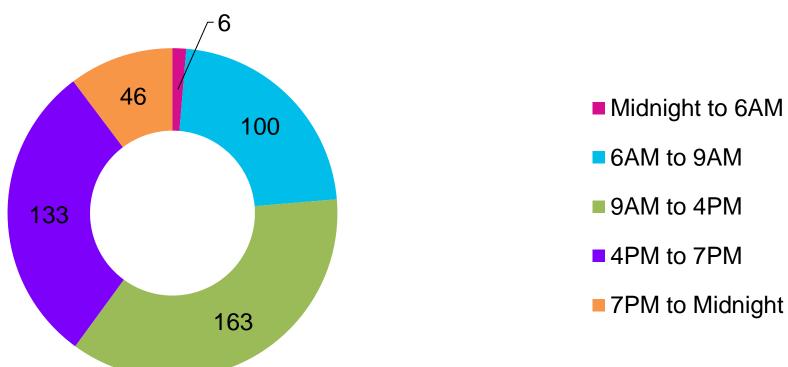
- At least once a year
- At least once a month
- At least once a week
- Daily

KEY FINDING:

Over 67% of all respondents travel through Zion Crossroads daily.



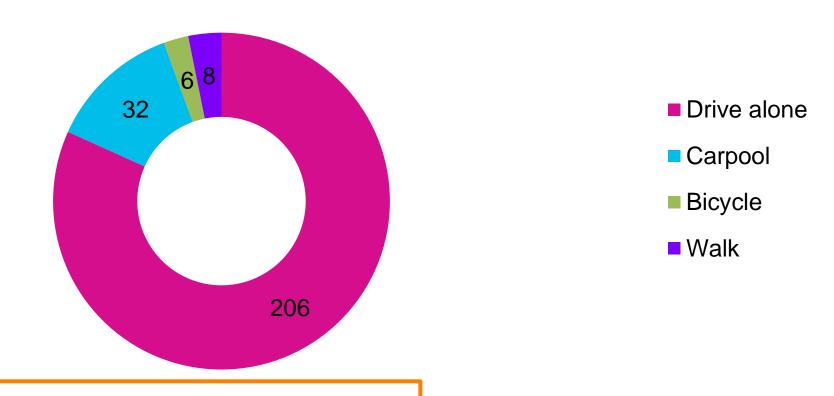
When do you normally travel on these sections of US 15 or US 250?



KEY FINDING:

Over 36% of all respondents use US 15 or US 250 from 9AM – 4PM.

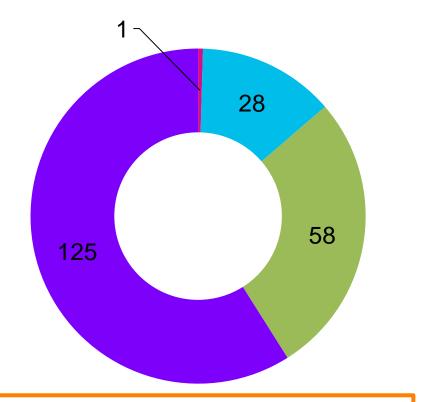
What mode(s) do you use when traveling these sections of US 15 or US 250?



KEY FINDING:

Only 6% of all respondents walk or bike along these sections of US 15 or US 250.

How many automobiles do you own or have access to?



KEY FINDING:

13% of the respondents had access to a single vehicle while one respondent had no access.



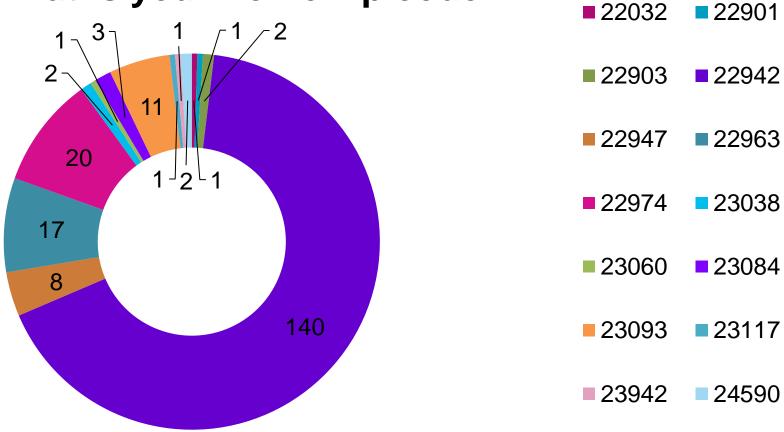


■ Three or more

Two



What is your home zip code?

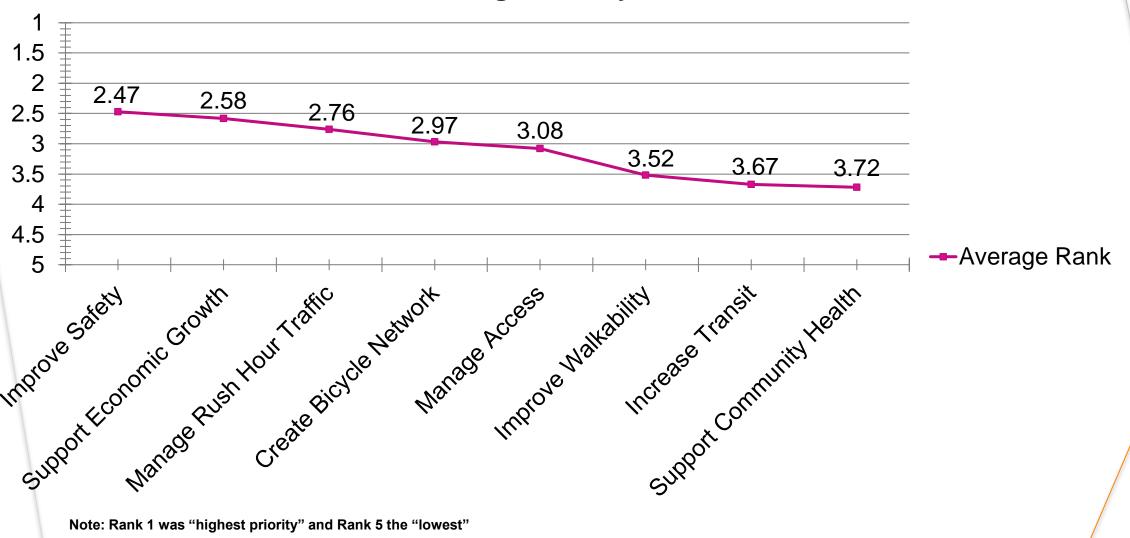


KEY FINDING:

Over 67% of all respondents have a home zip code of 22942.

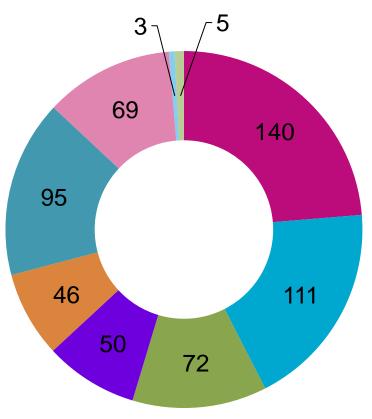
Study Goals

Ranking of Study Goals



Transportation Issues:

What transportation problems have you observed in the study area?



- Traffic congestion
- Speeding
- Frequency of commercial entrances
- Current levels of roadway lighting
- Lack of bicycle facilities
- Lack of sidewalks
- Location of pedestrian crossings (crosswalks)
- School traffic
- Too many accesses to residential properties

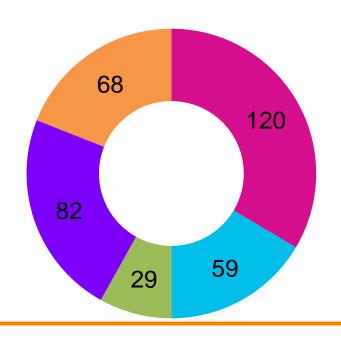
KEY FINDING:

Traffic congestion, speeding and lack of sidewalks were the top three issues observed by respondents.



Automobile Opportunities:

What transportation investments do you believe would improve driving conditions on US 15 or US 250?



- Reduce congestion and delay at intersections
- Slower speeds through roadway design
- Slower speeds through law enforcement
- Reduce roadway turning conflicts
- Improve lighting

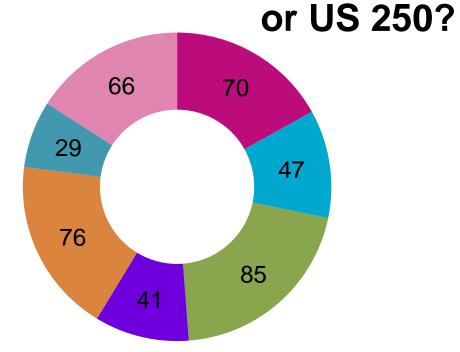
KEY FINDING:

Reducing congestion and delay at intersections was the top recommendation by the respondents to improve the automobile experience in Zion Crossroads.



Non-Automobile Opportunities:

What investments would you prefer to consider non-driving modes of transportation along US 15



- More trails/shared use paths
- More bicycle lanes
- More sidewalks
- Slower traffic
- Improved lighting
- Transit service
- I would not bike, walk or use transit along US 15 or US 250

KEY FINDING:

More sidewalks, more trails/shared use paths and improved lighting were the top three recommendations to improve the non-automobile experience in Zion Crossroads.



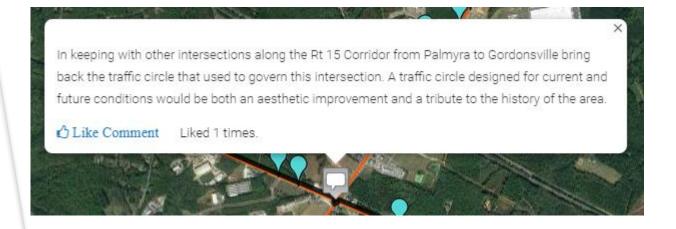
Website Comment Map

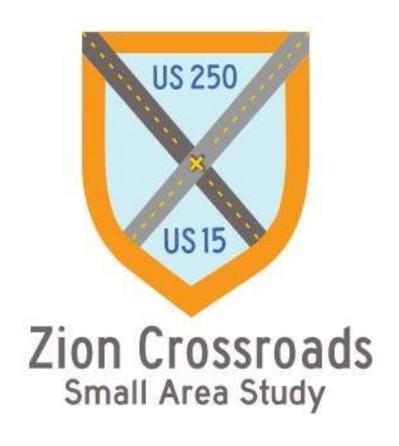


Example Response from Comment Map

Vehicles coming rapidly up to RT 15 are not always aware that there is a stop light around the curve. The sight line needs to be improved or a sign earlier on the ramp to let drivers know there be stopped vehicles around the curve.

Like Comment Liked 4 times.





Alternatives Analysis



Sommerfield 1 Business Park/US 15

Operations	AM	PM	SAT
Existing	В	С	С
2040 No-Build	С	D	D

Safety-Specific Treatment:

- Provide Gateway Signage in median or off-road
- Improve pavement condition, particularly in curb returns







2 Spring Creek Parkway/ Stonegate Drive/US 15

0 Crashes

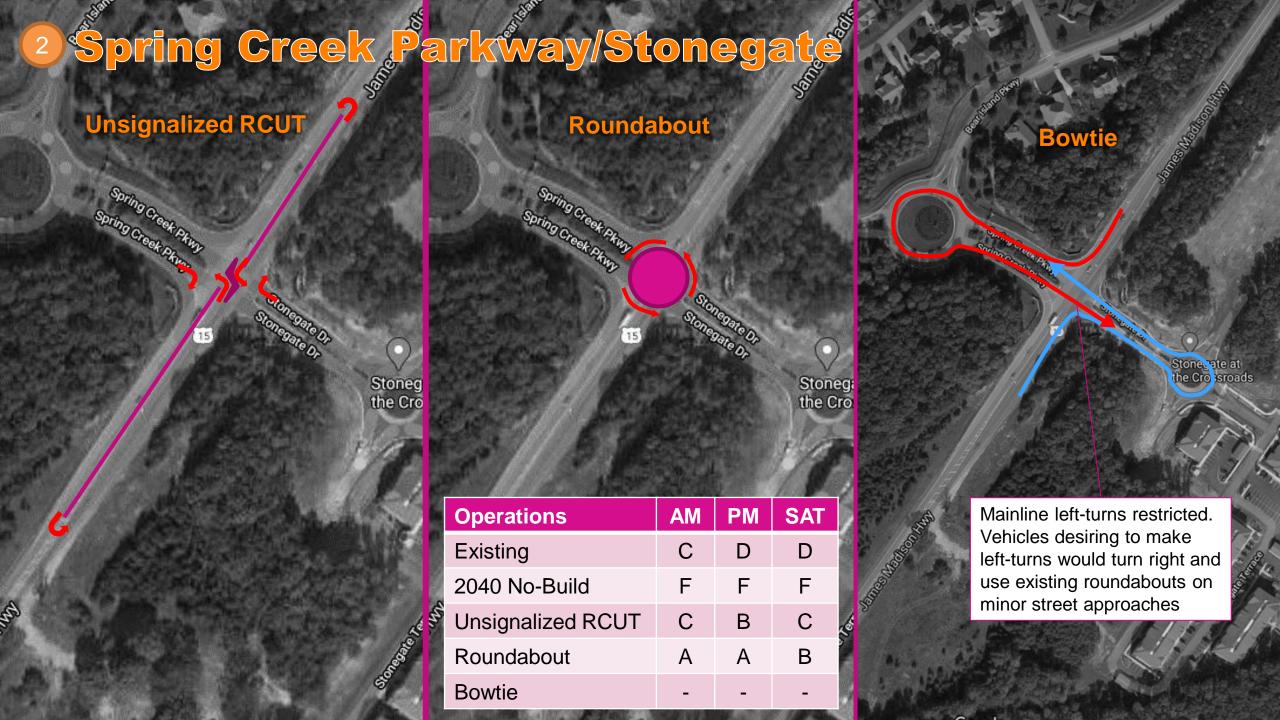
Operations	AM	PM	SAT
Existing	С	D	D
2040 No-Build	F	F	F













Liberty Trail/US 15 3

7 Crashes Priority Intersection

Operations	AM	PM	SAT
Existing	С	D	Е
2040 No-Build	Е	Е	F















Roundabout

Rather than merging, leftturn acceleration lane would become add lane

Unsignalized Green-T

OperationsAMPMSATExistingCDE2040 No-BuildEEFUnsignalized Green TBCCRoundaboutAAB

Safety-Specific Treatment:

- Restrict U-Turns
- Improve pavement condition, particularly in curb returns
- Provide supplemental signage for Flashing Yellow

4 Freedom Trail/US 15

0 Crashes

Operations	AM	PM	SAT
Existing	С	С	С
2040 No-Build	С	D	D









Freedom Trail

Unsignalized RCUT

THE SOURCE THE SOURCE

Unsignalized "Superstreet"

	Operations	AM	PM	SAT
	Existing	С	С	С
	2040 No-Build	С	D	D
	Unsignalized RCUT	С	С	D
D)	Unsignalized "Superstreet"	В	С	С
E	keout • Delivery	2000	13	N. SHANE

Safety-Specific Treatment:

Dunkin' Takeout • Delivery

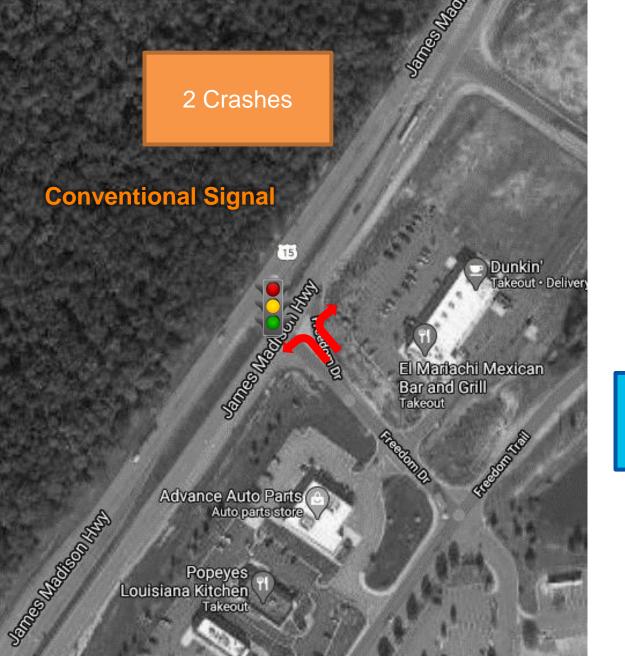
arlachi Mexican ınd Grill

Freedom Trail

Improve pavement condition, particularly in curb returns Takeout

Annue Local Sound El Mariach Bar and Gr Takeout

15



Freedom Drive/US 15 5

Operations	AM	PM	SAT
Existing	Α	В	В
2040 No-Build	В	В	В
Conventional Signal*	С	D	D

*Would only become signalized as a part of potential quadrant intersection at adjacent Spring Creek/Camp Creek intersection

Safety-Specific Treatments:

- Improve pavement condition, particularly near median to reduce ponding
- Restripe to finish lane drop before or after Freedom Drive





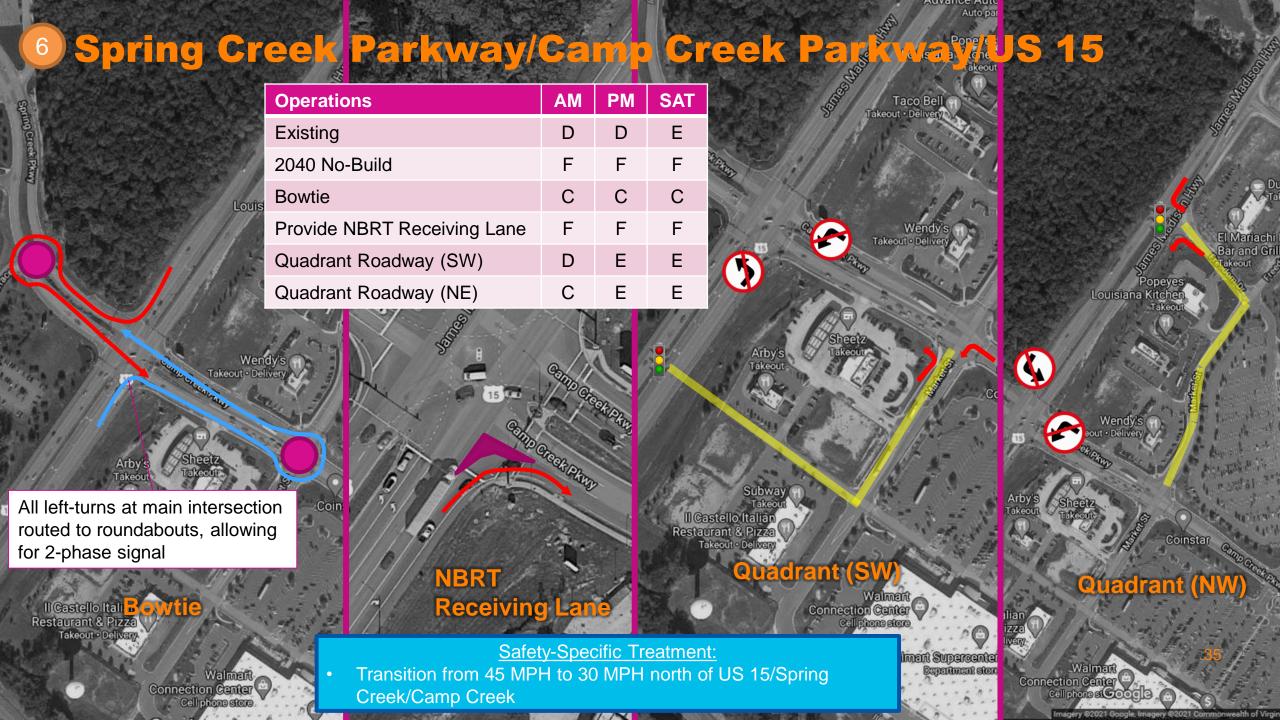


Spring Creek Parkway/Camp Creek Parkway/US 15

14 Crashes
Priority Intersection

Operations	AM	PM	SAT
Existing	D	D	E
2040 No-Build	F	F	F





Spring Creek Parkway/ Wood Ridge Terrace

Operations	AM	PM	SAT
Existing	В	В	Α
2040 No-Build	В	В	В
Bowtie (Roundabout)	Α	В	С

Safety-Specific Treatment:

Provide Curve Warning Signage









© Camp Creek Parkway/Market Street

Operations	AM	PM	SAT
Existing	С	D	С
2040 No-Build	С	С	D
Bowtie (Roundabout)	Α	Α	Α

Safety-Specific Treatments:

- Provide speed limit sign
- Provide Red Light Running Treatment (cameras, etc.)





Operations	AM	PM	SAT
Existing	С	С	С
2040 No-Build	С	D	D

Operations	AM	PM	SAT
Existing	С	С	В
2040 No-Build	В	С	С

Safety-Specific Treatments:

- Adjust timing to improve progression (reducing likelihood of rear-end crashes)
- Add three-section signal head to address signal visibility issues in SB direction



1 Crossing Pointe Drive/US 15

Operations	AM	PM	SAT
Existing	D	Е	F
2040 No-Build	F	F	F
Conventional Signal	В	С	С

Safety-Specific Treatments:

- Transition from 45 to 30 MPH south of Crossing Pointe
- · Reduce median opening











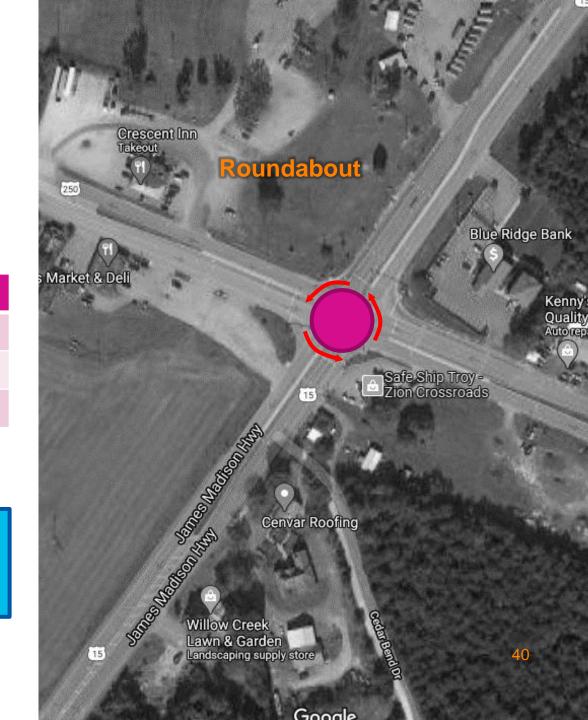
¹² US 250/US 15

21 Crashes Priority Intersection

Operations	AM	PM	SAT
Existing	С	С	С
2040 No-Build	С	D	С
Roundabout	В	В	Α

Safety-Specific Treatments:

- Provide Red Light Running Treatment (cameras, etc.)
- Provide Signal Ahead signage



Starlite Park/US 15

Operations	AM	PM	SAT
Existing	С	С	В
2040 No-Build	С	D	С
Northbound Left Turn Lane	С	С	С

Safety-Specific Treatment:

- Provide Intersection Ahead Signage
- Improve curb returns









Troy Road (Route 631)/Zion Station Court /US 250

Operations	AM	PM	SAT
Existing	В	В	В
2040 No-Build	В	В	В
Roundabout	Α	Α	Α

Safety-Specific Treatment:

- Provide Deer Crossing Sign
- Ensure Sight Triangles are not blocked by trees
- Improve pavement conditions, particularly in curb returns









Hunters Branch Road (Route 689)/US 250/Edgecomb Road

Operations	AM	PM	SAT
Existing	В	В	В
2040 No-Build	В	В	В

Safety-Specific Treatment:

- Provide Deer Crossing Sign
- Ensure Sight Triangles are not blocked by trees
- Improve pavement conditions, particularly in curb returns









Better Living Drive/US 250

Operations	AM	PM	SAT
Existing	В	В	Α
2040 No-Build	В	В	Α

Safety-Specific Treatment:

- Ensure Sight Triangles are not blocked
- Determine if curb will tie into future driveway









Zion Road (Route 615)/US 250

Operations	AM	PM	SAT
Existing	В	В	В
2040 No-Build	В	В	В

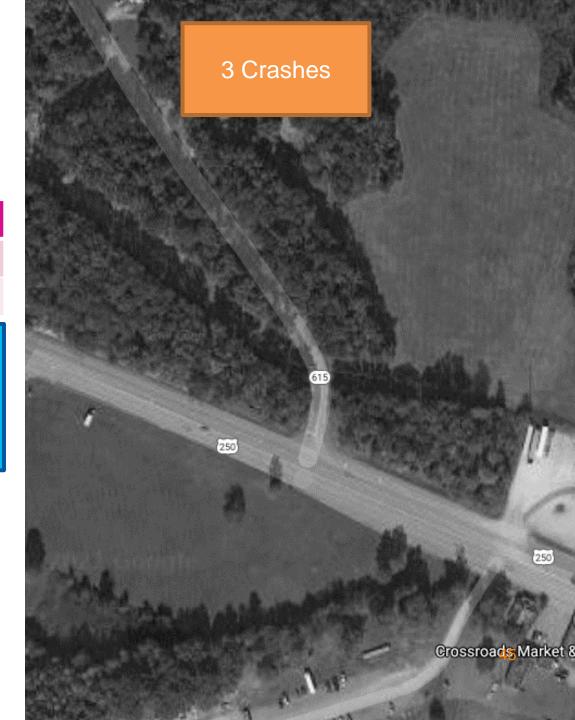
Safety-Specific Treatment:

- Improve Striping
- Pull up to stop bar
- Ensure Sight Triangles are not blocked by trees









[®] Zion Park Road/US 250

Operations	AM	PM	SAT
Existing	В	В	В
2040 No-Build	С	С	С
Westbound Left Turn Lane	С	С	С

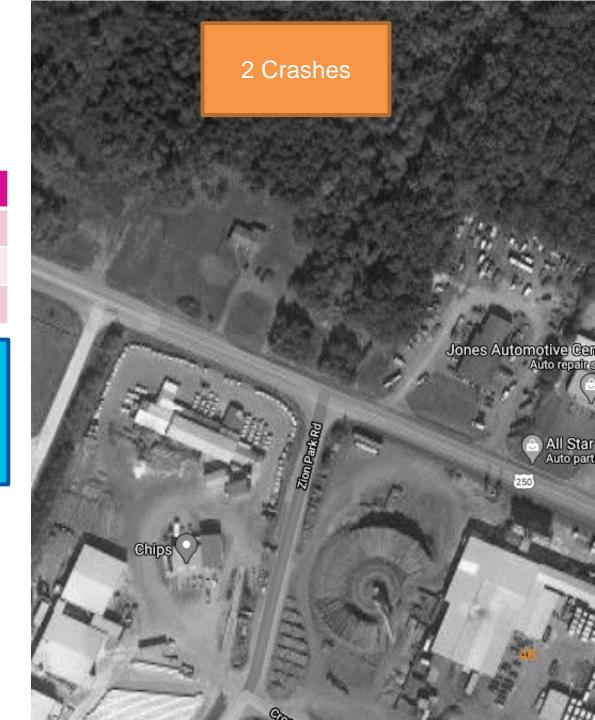
Safety-Specific Treatment:

- Move transition of speed east of Zion Park
- Consolidate driveways/access
- Ensure Sight Triangles are not blocked









Poindexter Road (Route 613)/US 250

Operations	AM	PM	SAT
Existing	В	В	В
2040 No-Build	С	В	В
Westbound Right Turn Lane	С	В	В

Safety-Specific Treatment:

- Ensure Appropriate Sight Distance
- Provide right turn pavement markings for driveway access









Corridor and/or Segment Treatments:

- Medians
- Sidewalks/Shared Use Paths
- Transit Stops
- Lighting
- Other Minor Improvements (e.g., rumble strips)



Next Steps:

- Conceptual Designs
- Public Meeting

