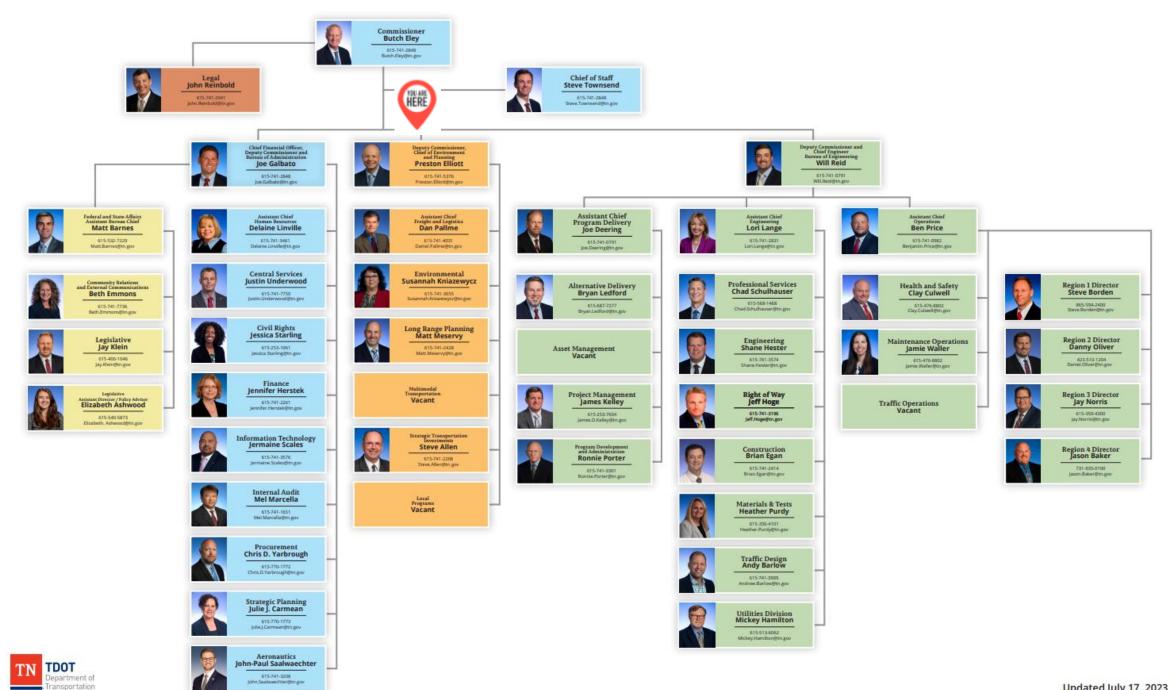
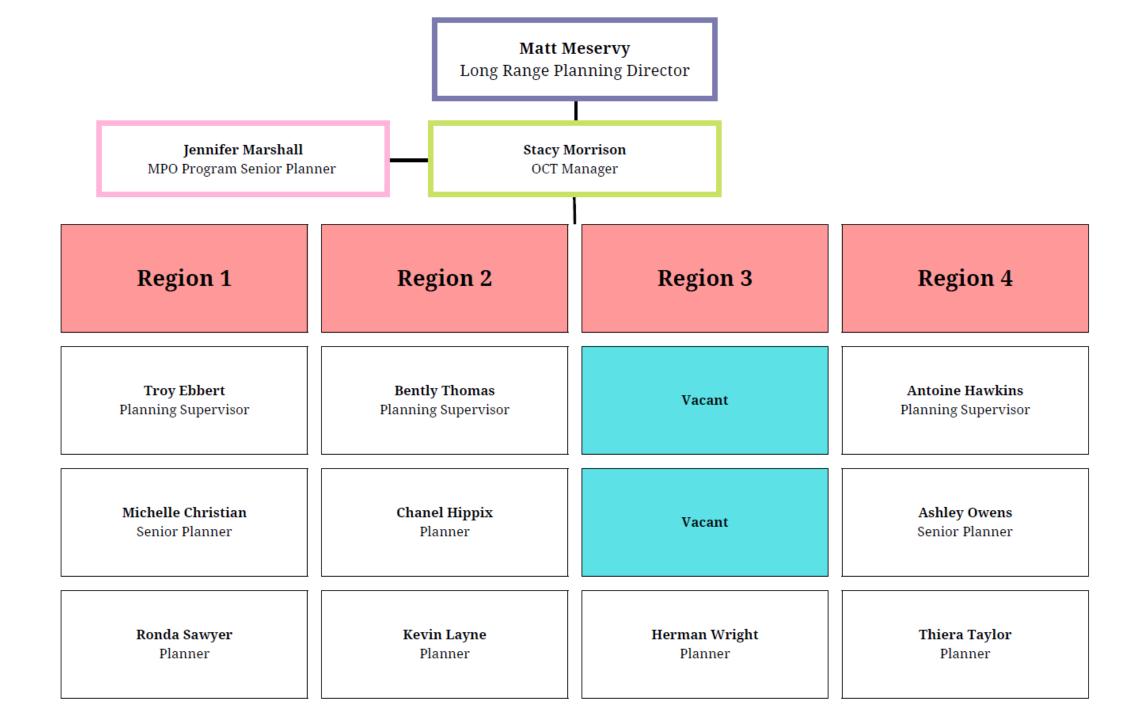




CDM Smith_®

State Route 343 Complete Streets & ITS Traffic Signal Coordination Project Morristown, TN







TDOT OCT

1

LIASON BETWEEN LOCAL AGENCIES & TDOT

OCT works with cities and counties across the state to keep them informed on projects in their area, to assist with any transportation-related issues, and to participate in local transportation planning efforts. OCT encourages communication and collaboration between adjacent communities, sharing pertinent grant information with them and helping to establish corridor management agreements.

2

OVERSIGHT OF MPO AND RPO PROGRAMS

OCT works with MPOs and RPOs across the state, providing oversight and assistance. Staff review federally required documents, participate in Executive Board and Technical Committee meetings, and provide assistance to MPO and RPO staff. OCT serves as the first point of contact for MPO and RPO staff for any and all questions and concerns.

3

TRANSPORTATION STUDIES

OCT manages the TDOT Transportation Planning Grant, providing transportation planning opportunities to cities and counties. Through this program, OCT is able to assist local communities with bike/ped plans, corridor studies, and many other planning products. In addition, OCT participates in transportation studies coordinated by MPOs, RPOs, and local municipalities.

4

ADMINISTRATION & INTERNAL COLLABORATION

OCT works to keep other TDOT offices informed of what's going on in communities in their respective regions. They work with other TDOT staff to address local agency requests, assist with grant application scoring, and coordinate between offices. In addition, OCT dedicates time to continuing education, internal reporting, conference planning, and other general administration duties.

What is the Transportation Planning Grant?

Launched in 2015, the Transportation Planning Grant program provides resources that assist Tennessee communities in developing transportation plans for preparation of future transportation system, land use, and growth management issues.

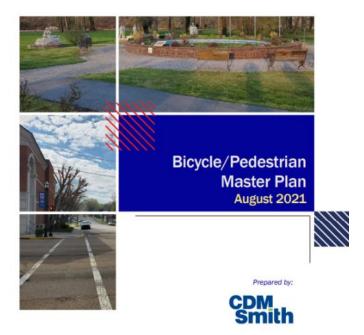
Program Goals

- Assist urban jurisdictions to identify solutions, within their communities, that define the transportation cohesiveness between a multimodal transportation system to achieve the State of Tennessee's transportation goals.
- Guide in determining the strategies that will support improvements in traffic flow, safety, mobility, and overall efficiency of the transportation system.
- Provide identified jurisdictions with planning resources to achieve community visions as related to transportation and land use needs that promote future economic growth.









City of Harriman Bike/Ped Plan, 2021



What plans are eligible?

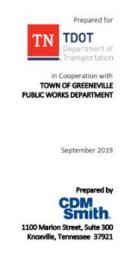
- The transportation planning world is your oyster!
- We've typically funded plans such as:
 - Corridor Studies
 - Bicycle & Pedestrian Plans
 - Complete Streets Plans
 - Transportation Systems Management & Operations (TSMO) Studies
 - Community Mobility Plans
 - Resurfacing and Striping Plans
- We welcome any creativity and innovative ideas
- If you have questions on potential eligibility, reach out to your OCT staff and RPO/MPO staff





Technical Study SIGNAL SYSTEM EVALUATION, OPTIMIZATION, AND COMMUNICATIONS MASTER PLAN





Project No. 234821

Town of Greeneville TSMO Study, 2019



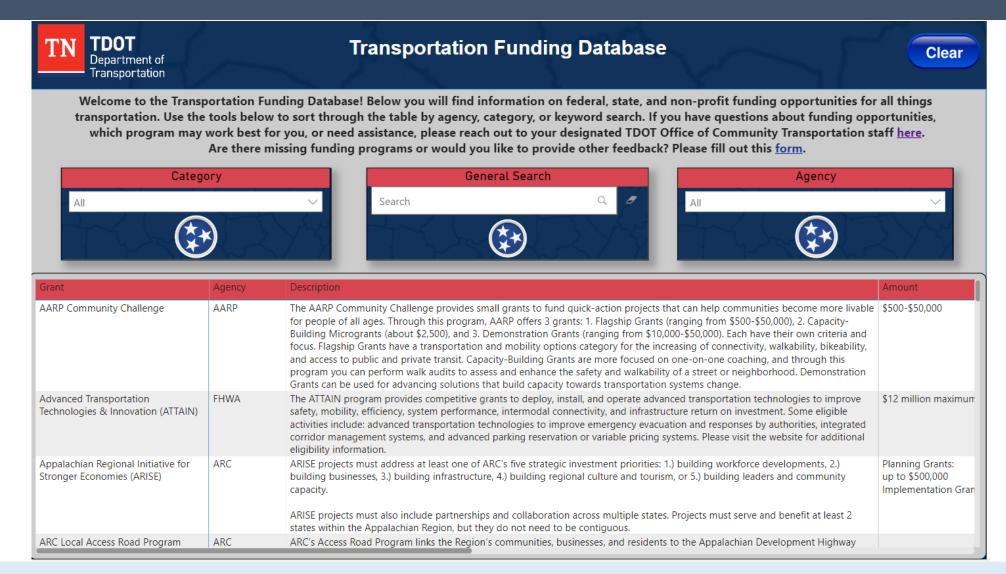
Who does what throughout the planning process?

City/County	Consultants	TDOT Staff				
Approve Scope of Work	Complete Scope of Work	Set up the contract with consultants				
Recommend Stakeholders	Organize Meetings	Review Scope of Work & issue Notice to Proceed				
Participate in meetings	Collect Data	Oversee the planning process				
Assist in getting the word out about Public Outreach	Conduct Public Outreach & analyze Public Survey data	Collect, review, & approve invoices for payment				
Review draft plan & submit feedback	Draft a final plan	Review draft plan & submit feedback				
Sign a resolution adopting the plan once complete	Submit a final plan	Ensure that plan meets local & TDOT expectations*				

^{*}All work requires approval of the local jurisdiction



What do communities do with completed plans?





Transportation Funding Database



 Search For TDOT OCT – At bottom of page

Office of Community Transportation (OCT)

The Office of Community Transportation (OCT) gives TDOT a thorough understanding of local communities and the various transportation planning documents and policies in place. The office is comprised of two sections, <u>Community Planning</u> and <u>Regional Planning</u>. The OCT's mission is to coordinate the state's transportation planning, local land use decisions, and community visions to guide the development of a safe and efficient statewide transportation system.

The OCT accomplishes this mission through the following:

- Partnering with local agencies to determine appropriate land-use and infrastructure (or transportation facilities)
- Strengthening local partner collaboration on transportation decisions
- Improving communication between TDOT and local partners through planning efforts

NEW

The <u>Transportation Funding Database</u> was developed to house transportation funding programs from Federal, State, and non-profit sources. Use this tool to browse available funding opportunities for transprotation projects and initiatives.

<u>Contact your OCT staff</u> with any questions.



CDM Smith



Traffic Signalization and complete streets plan Morristown, TN
TSITE Summer Meeting
July 26, 2023



CDM Smith Team

- Melody Butler
- John Gould
- Chris Kirby
- Allyson Boyd
- Liza Joffrion
- Jeff Mize

Fairpointe Planning:

- Tanisha Hall
- Veronica Carter



Scope and Schedule

	2021									
	July	Aug	Sept	Oct	Nov	Dec				
Task 1 - Project Management										
Task 2 - Public Involvement										
Steering Committee Engagement										
Community Engagement										
Task 3 - Quality Control										
Task 4 - Traffic Signal Coordination										
Data Collection										
Data Analysis										
Recommendations and Report										
Task 5 - Complete Streets Plan										
Data Collection										
Data Analysis										
Recommendations and Report										

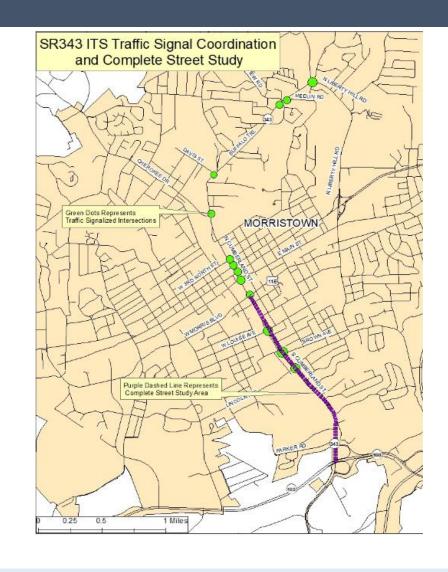


Project Purpose

Traffic Signal Coordination

- Lincoln Avenue to N
 Liberty Hill Road
- 13 signalized intersections
- Update signal equipment and coordinate throughout corridor
- Upgrade to meet ADA standards

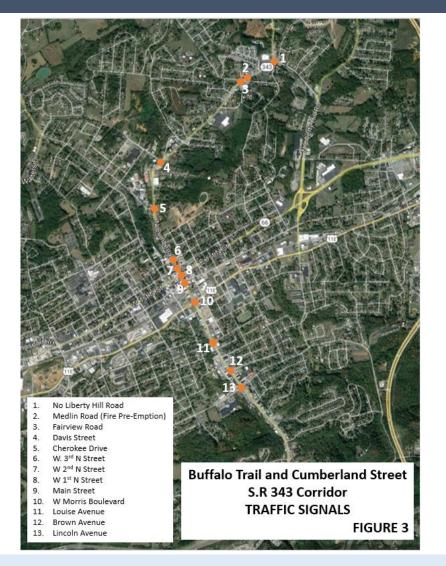
Complete Streets



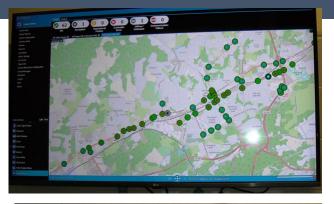




Cumberland Street/Buffalo Trail (SR 343) Signals













Crash Data

SR 343 (S. Cumberland St.) at Lincoln Ave. / Algonquin St. Crashes from Jan. 2015 through Dec. 2019

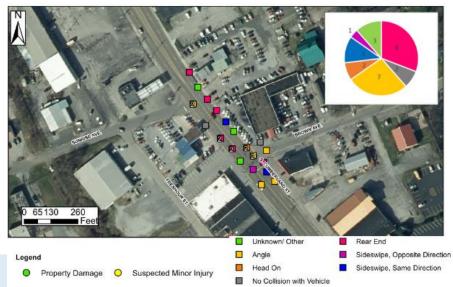




SR 343 (S. Cumberland St) at Brown Ave.

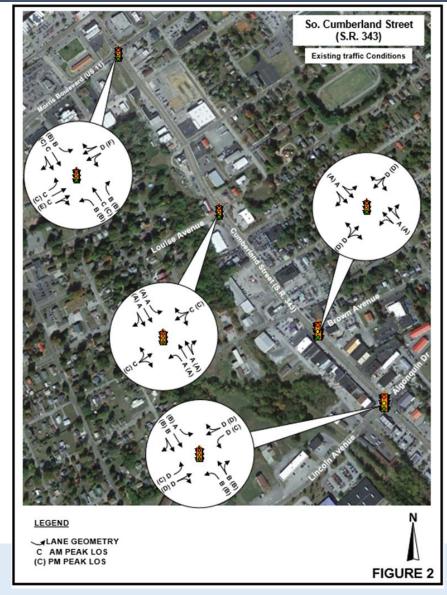
Crashes from Jan. 2015 through Dec. 2019

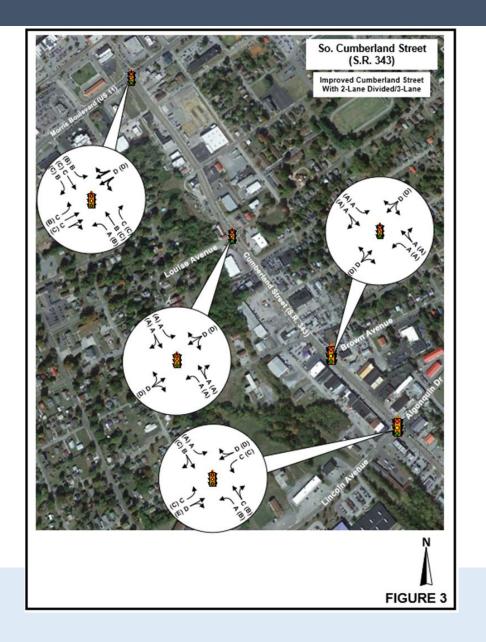






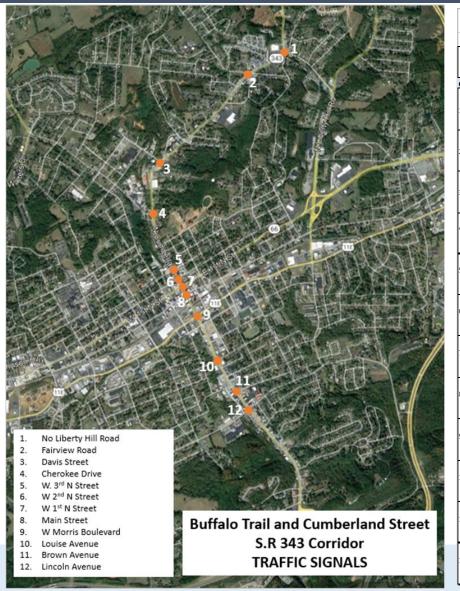
Turning Movements







Existing Level of Service



CAPACITY & LEVEL OF SERVICE City of Morristown											
SIGNAL GROUP	HOUR	V/C	AVERAGE DELAY	LEVEL OF SERVICE	V/C	AVERAGE DELAY	LEVEL OF SERVICE				
CUMBERLAND STREET/BUFFALO TRAIL (S.R. 343)		0.50	24.0		0.50	200					
	AM	0.53	24.2	С	0.60	20.8	C				
1. Buffalo Trail (S.R. 343) & No. Liberty Hill Road	OFF	0.47 0.58	25.3 27.5	C C	0.51	22.6 25.3	C C				
	PM	0.59	28.1	C	0.61	22.5	C				
	AM	0.61	21.4	С	0.66	19.4	A				
	OFF	0.53	17.5	В	0.54	21.4	C				
2. Buffalo Trail (S.R. 343) & Fairview Road	PM	0.72	24.0	C	0.76	23.8	C				
	PM	0.64	18.3	В	0.65	15.0	В				
	AM	0.53	7.7	A	0.54	5.2	A				
	OFF	0.50	10.5	В	0.50	10.5	В				
3. Buffalo Trail (S.R. 343) & Davis Road	PM	0.53	16.6	В	0.54	16.2	В				
	PM	0.60	14.8	В	0.59	16.4	В				
	AM	0.32	9.5	Α	0.37	9.7	Α				
4. No. Cumberland Street/Buffalo Trail (S.R. 343) &	OFF	0.36	8.1	А	0.42	13.9	В				
Cherokee Drive	РМ	0.36	8.7	Α	0.42	8.5	Α				
	PM	0.45	14.2	В	0.49	10.1	В				
	AM	0.39	6.5	Α	0.40	5.0	Α				
5. No. Cumberland Street (S.R. 343) &	OFF	0.37	12.2	В	0.38	9.5	Α				
W. 3rd N. Street	РМ	0.47	11.8	В	0.49	10.1	В				
	PM	0.53	17.1	В	0.55	16.2	В				
	АМ	0.49	23.7	С	0.42	7.2	Α				
5. No. Cumberland Street (S.R. 343) &	OFF	0.41	19.2	В	0.34	7.9	Α				
W. 2nd N. Street	РМ	0.49	16.4	В	0.41	7.5	Α				
	РМ	0.42	9.4	Α	0.44	9.2	Α				
	AM	0.58	32.9	С	0.61	24.3	С				
7. No. Cumberland Street (S.R. 343) &	OFF	0.57	30.7	С	0.62	24.7	С				
W. 1st N. Street	PM	0.63	32.9	Ċ	0.69	25.9	C				
	РМ	0.60	31.5	С	0.63	24.6	С				
	AM	0.36	11.8	В	0.45	15.5	В				
3. No. Cumberland Street (S.R. 343) & Main St	OFF	0.49	19.3	В	0.60	18.3	В				
	РМ	0.42	21.3	С	0.46	20.4	С				
	РМ	0.50	20.0	С	0.52	18.2	В				
	AM	0.58	24.5	С	0.59	22.3	С				
9. So. Cumberland Street (S.R. 343) &	OFF	0.74	62.7	Е	0.67	36.9	D				
W. Morris Boulevard		1.03	172.7	F	0.97	34.6	С				
	PM	0.82	131.7	F	0.74	26.3	С				
	AM	0.30	4.8	Α	0.28	4.2	Α				
10. So. Cumberland Street (S.R. 343) & Louis	OFF	0.24	6.2	Α	0.22	9.2	Α				
Avenue	PM	0.31	7.6	Α	0.29	8.8	Α				
	PM	0.27	5.5	Α	0.24	7.0	Α				
	АМ	0.27	4.9	Α	0.28	4.6	Α				
11. So. Cumberland Street (S.R. 343) & Brown Ave	OFF	0.16	3.1	Α	0.17	3.6	Α				
• •	PM	0.23	4.5	Α	0.25	4.4	Α				
	РМ	0.28	3.4	Α	0.29	3.8	Α				
	AM	0.57	24.5	С	0.66	24.1	С				
12. So. Cumberland Street (S.R. 343) &	OFF	0.42	20.5	С	0.45	18.3	В				
Lincoln Avenue/Algonquin Drive	PM	0.77	37.7	D	0.89	44.3	D				
	PM	0.48	24.6	С	0.51	22.8	С				

Proposed Improvements

TDOT
Department of
Transportation



PROPOSED

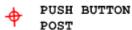


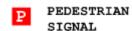
CABINET W ATC CONTROLLER

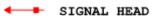


POLE & MAST ARM









NOT TO SCALE

CUMBERLAND STREET (SR 343) & MAIN STREET SIGNAL CONCEPT



Proposed Level of Service

SOUTH CUMBERLAND STREET (SR-343) CAPACITY & LEVEL OF SERVICE SUMMARY

(S.R. 343)	PEAK	EXISTING CONDITIONS			PROPOSED CUMBERLAND IMPROVMENTS			PROPOSED CUMBERLAND IMPROVMENTS WITH MORRIS BLVD WB LEFT-TURN LANE				PROPOSED CUMBERLAND IMPROVMENTS WITH WB LEFT-TURN PROHIBITION FROM MORRIS BLVD					
	HOUR	v/c	AVERAGE DELAY	LEVEL OF SERVICE	WB LT QUEUE	v/c	AVERAGE DELAY	LEVEL OF SERVICE	WB LT QUEUE	v/c	AVERAGE DELAY	LEVEL OF SERVICE	l .	v/c	AVERAGE DELAY	LEVEL OF SERVICE	WB LT QUEUE
0 W M : D	AM	0.58	24.5	С	237	0.57	25.3	С	>232	0.59	22.5	С	>605	0.52	23.5	С	205
9. W. Morris Boulevard	PM	0.82	131.7	F	>505	0.81	26.1	С	>307	0.74	26.7	С	>559	0.74	23.4	С	210
10. Louise Avenue	AM	0.30	4.8	А		0.49	5.0	А						0.54	7.0	А	
	PM	0.27	5.5	А		0.42	6.1	Α						0.47	9.9	Α	
11. Brown Avenue	AM	0.27	4.9	А		0.48	5.4	Α						0.48	5.7	Α	
	PM	0.28	3.4	А		0.50	4.2	Α						0.50	5.3	Α	
12. Lincoln Avenue/Algonquin Drive	AM	0.57	24.5	С		0.65	24.3	С						0.65	24.4	С	
	PM	0.48	24.6	С		0.71	27.3	С						0.71	26.4	С	



Project Purpose

Traffic Signal Coordination Complete Streets

- US Hwy 11E/E/W Morris
 Boulevard to SR 160
- Improve safety
- More pedestrian and bicycle friendly
- Enhance aesthetics
- Improvements to various intersections
- Road diet





Public Survey Results

600

500

400

300

200

100

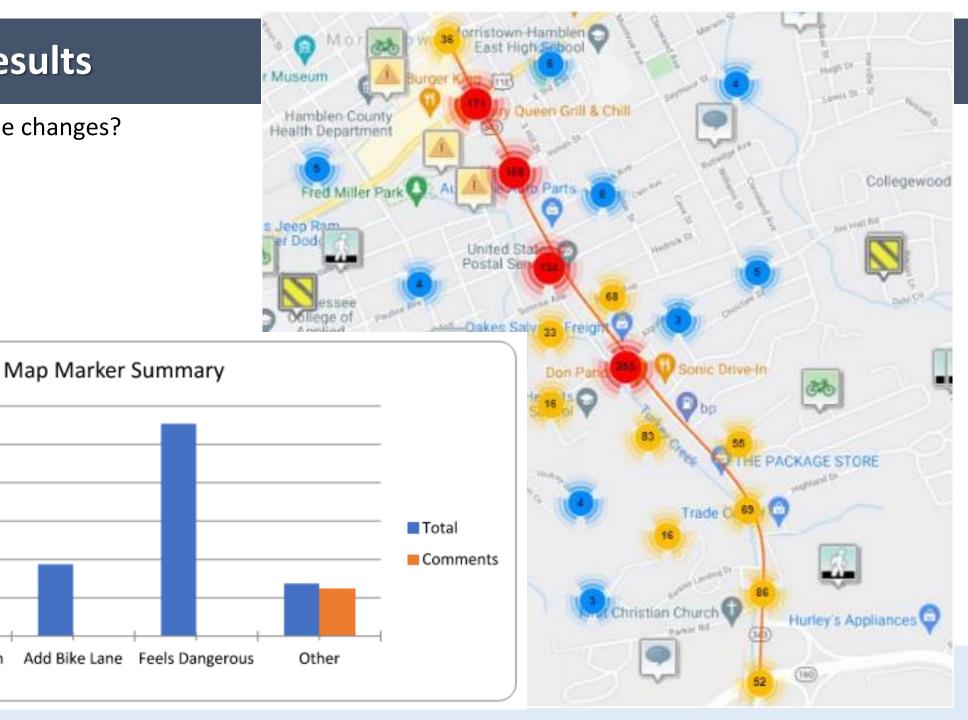
0

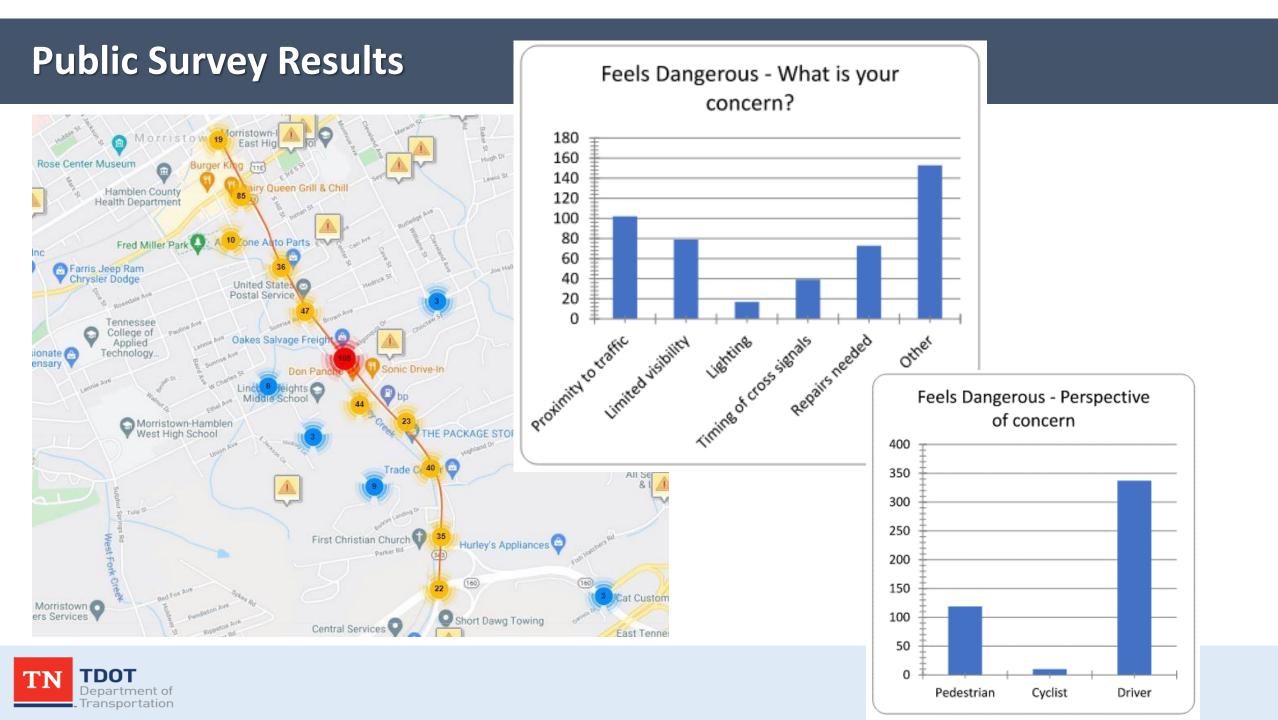
Add Sidewalk

Add Pedestrian

Crossing

Where do you want to see changes?

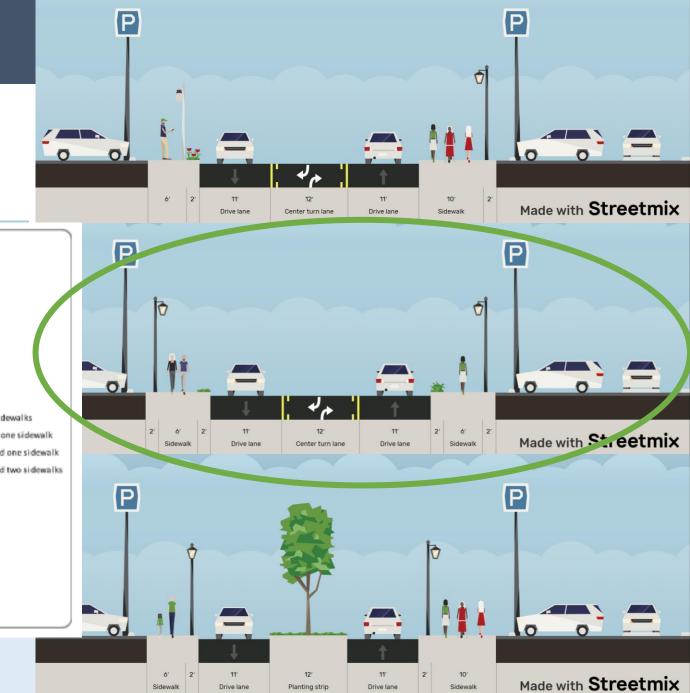




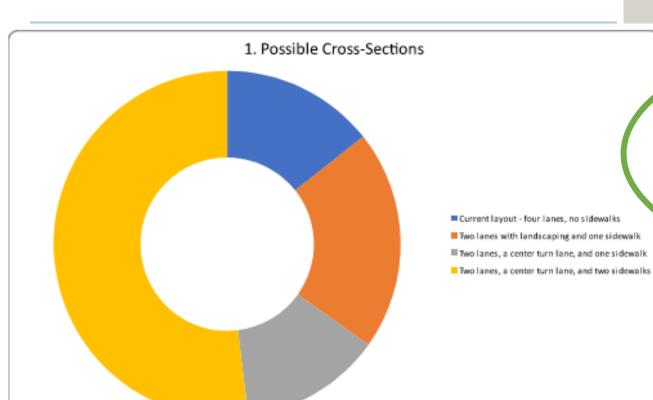
Public Survey Results

TDOT

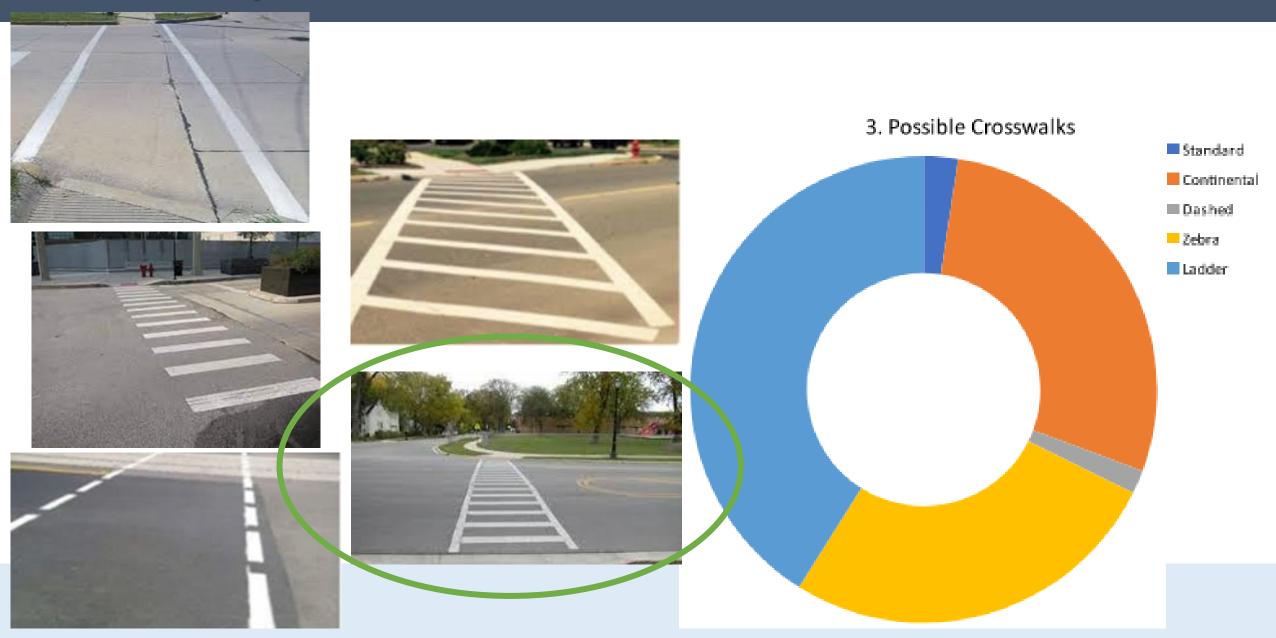
Transportation



Planting strip

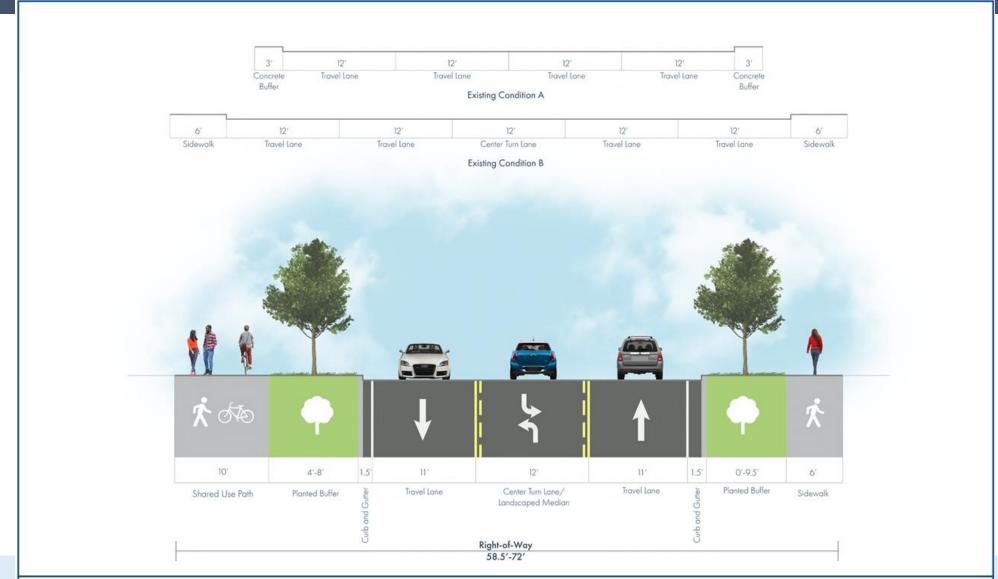


Public Survey Results



Proposed Cross-Section

CDM Smith





Proposed Plan





Proposed Plan

Signal Mast Arms & **Pedestrian Upgrades** Recommended from ITS/Signal Study

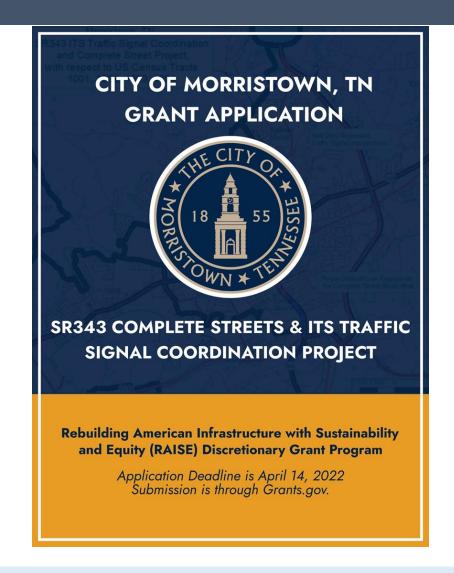






CDM Smith

Let's Find Funding





RAISE Grant Appliaction

- Total distance of project is about 3.70 miles in length
- Within US Census Tracts 1001, 1002, 1003, 1004
 - Census Tracts 1001, 1003, and 1004 are Areas of Persistent Poverty
 - Census Tracts 1001, 1002, 1003, and 1004 are listed as Historically Disadvantaged Communities
 - Census Tract 1003 is listed as an Opportunity Zone

Total Grant Project is \$23,430,325.32. (100% RAISE Funds)

This is a RURAL project, by RAISE grant guidelines

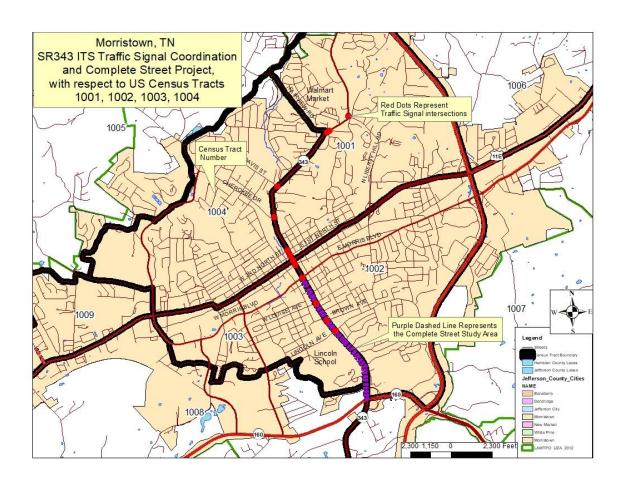


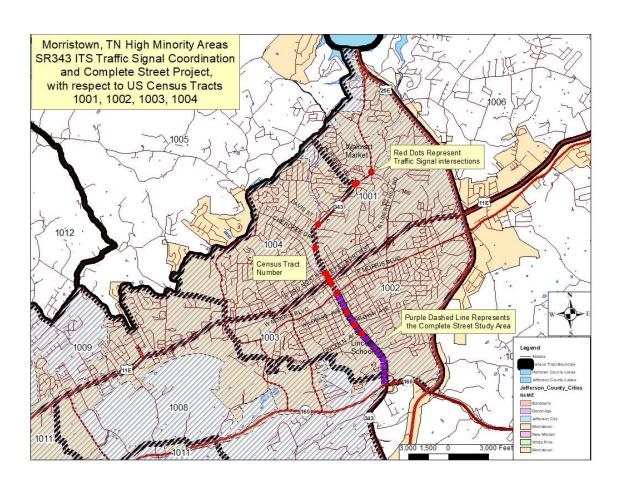
Portion applied for

- Distance of approximately 1.60 miles in length
- From US Hwy 11E/ SR34/ E-W Morris Blvd to SR160
- Predominately a 4-lane highway, to be turned into a 3-lane highway with a 10foot multi-use path and a sidewalk on the other side of roadway
- Currently, approximately 1 mile of this roadway does not have any sidewalks
- By reducing the number of lanes from 4 to 3 will make it consistent with the other sections of SR343 in town



Area Map and High Minority Areas







Current and What Could Be





Grant Process

- When a DOT Discretionary Grant comes out, make sure you read and answer EVERYTHING within the NOFO (Notice of Funding Opportunity)
- Grant is Very DATA DRIVEN
 - May be able to get "Bonus Points", if you qualify
 - Areas of Persistent Poverty
 - Historically Disadvantaged Communities
 - Opportunity Zones
 - Support Letters from local governing agencies, state officials, state and federal representatives/ congressmen, other interest groups
 - Applications are submitted through grants.gov



Where do we go from here

- Received RAISE Grant award in August 2022
- Since project is along a state route, was able to get TDOT to handle the project
- Working with TDOT and FHWA to finalize the US DOT Agreement" for the Project
- TDOT has requested for Advanced Construction for the PE phases
- Anticipate the Construction phase to start Spring 2026.



Questions

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