

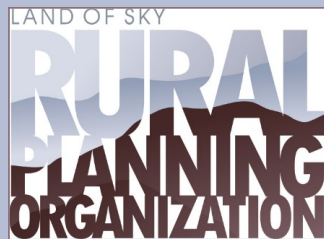
Transylvania County Comprehensive Transportation Plan (CTP) Meeting #10

NCDOT Transportation Planning Division (TPD)

Daniel Sellers, PE

Land of Sky Rural Planning Organization (LOSRPO)

Vicki Eastland



Welcome and Introductions

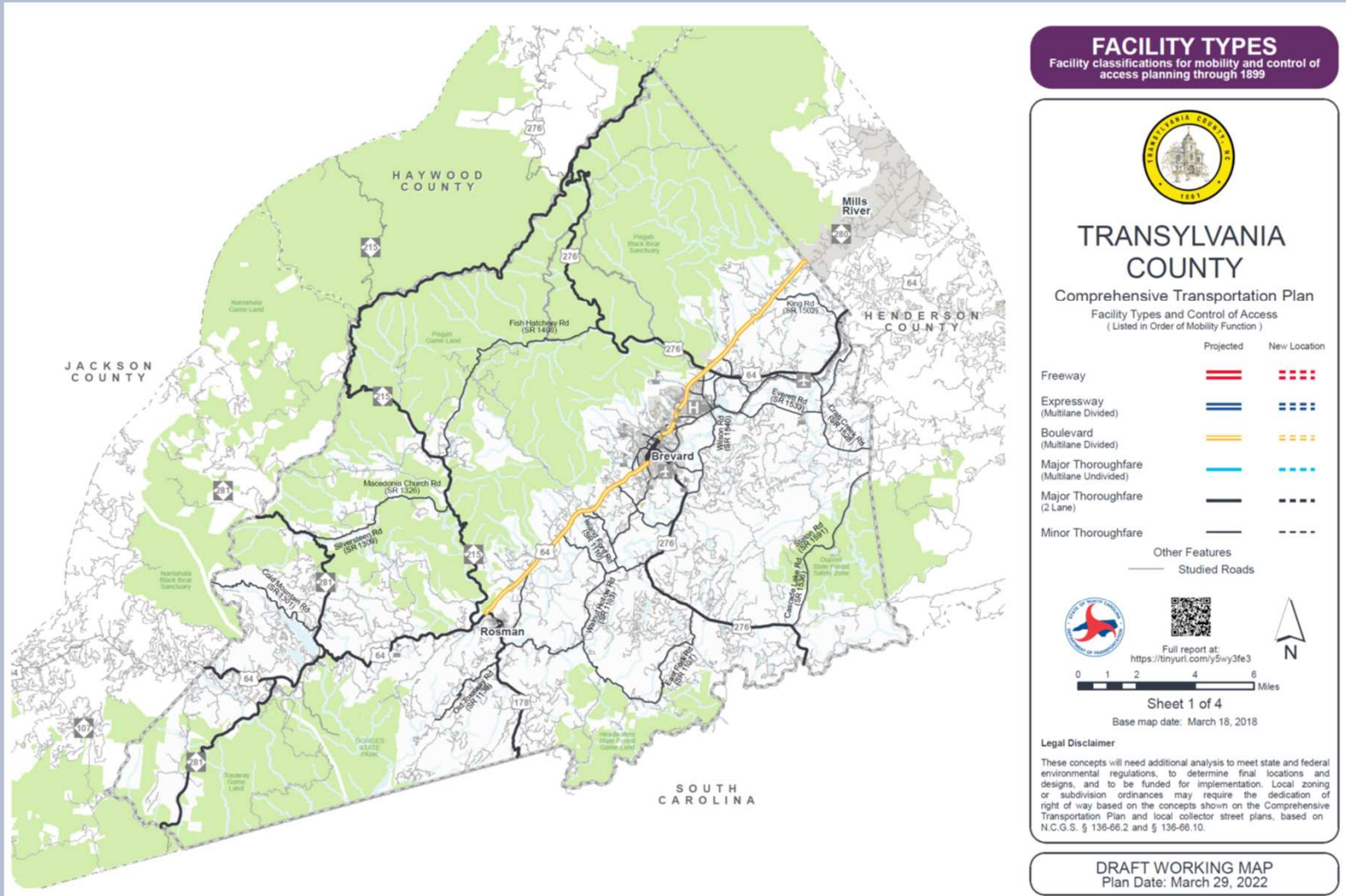


Vicki Eastland, LOSRPO
October 4, 2022

Agenda

- 2:30 PM Welcome and Introductions**
- 2:35 PM CTP Recap**
- 3:00 PM Project Updates**
- 3:45 PM Survey Comments and Edits**
- 4:15 PM Next Steps**
- 4:25 pm Future Meeting Date**

Recap of previous materials covered



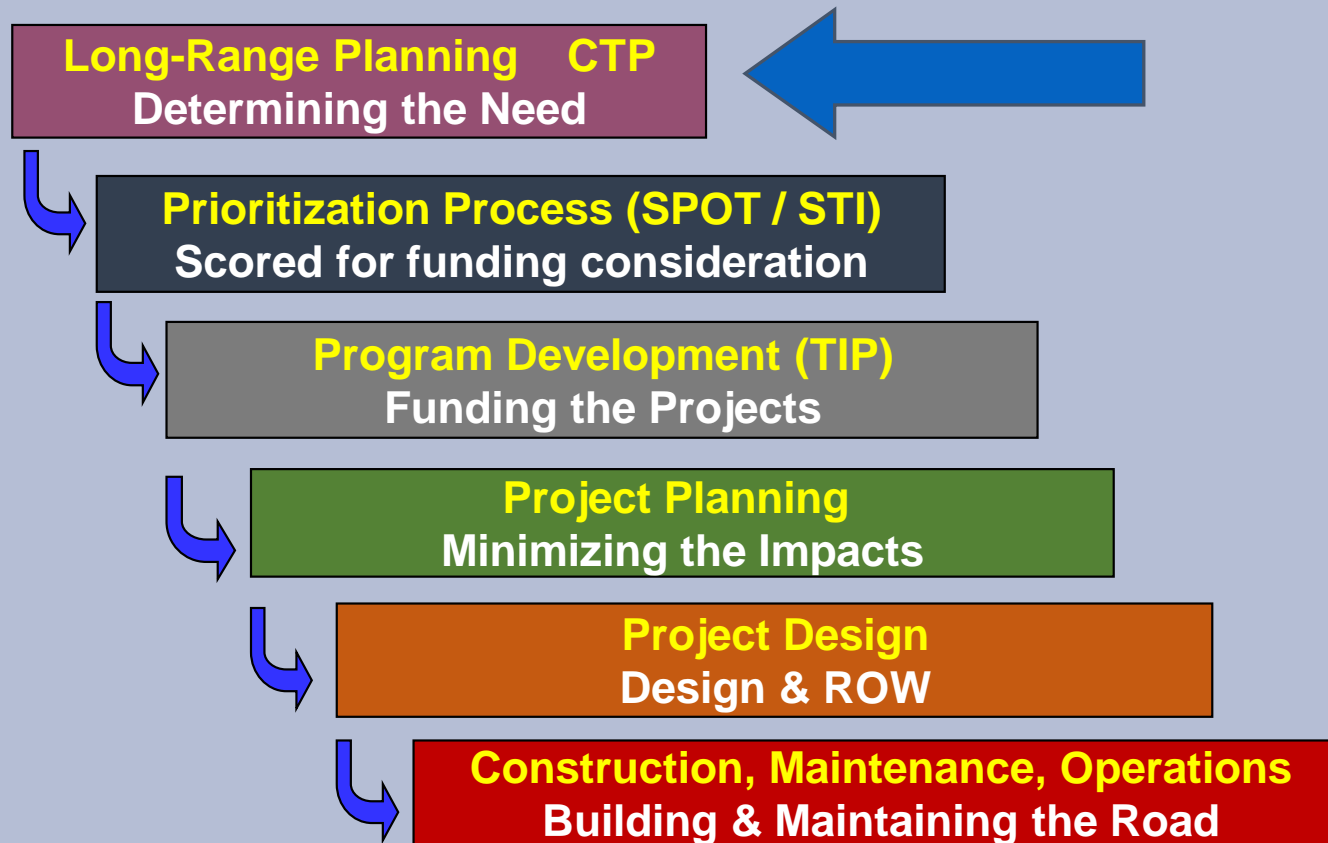
What is a CTP?

- Comprehensive Transportation Plan
- Long-range, multi-modal transportation plan
 - 25-to-30-year planning period
 - System Focused Plan
- Incorporates land use plans, community & statewide goals
- Developed cooperatively among local stakeholders, Rural Planning Organization (RPO), and NCDOT

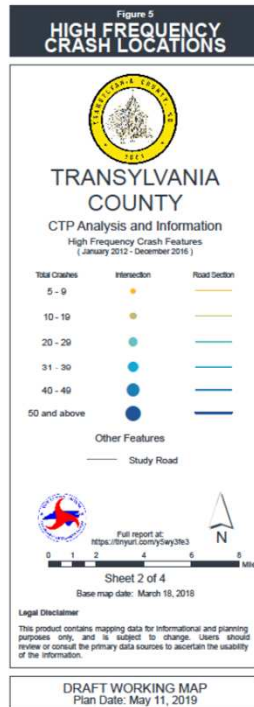
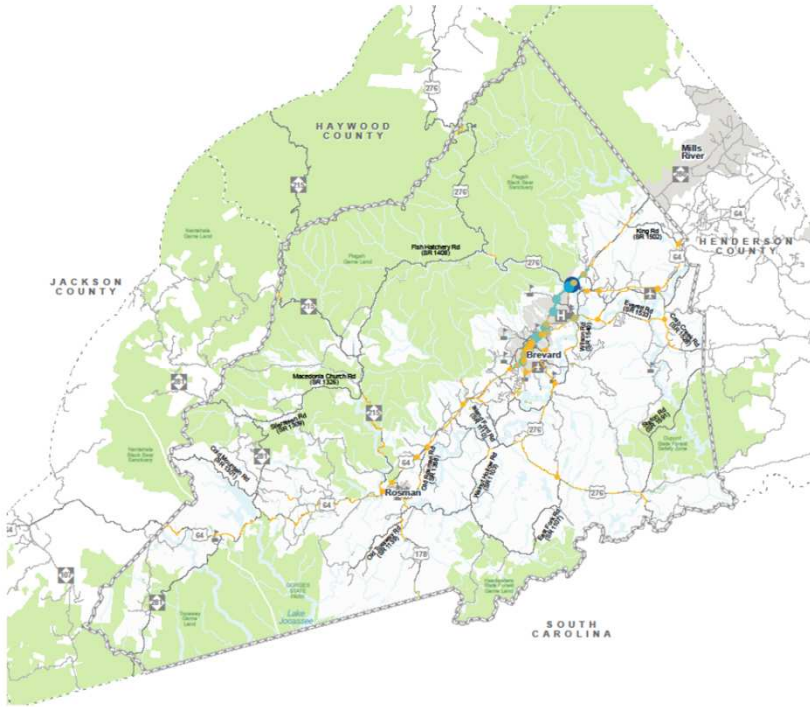
What is a CTP?

- It strives to **anticipate future deficiencies** and provide **proposals to address each deficiency**
- It gives due **consideration** to the **human and natural environment**
- It is **accountable** to the **public** through the **formal public involvement process**

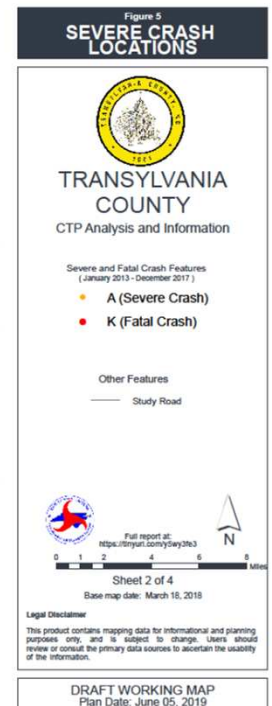
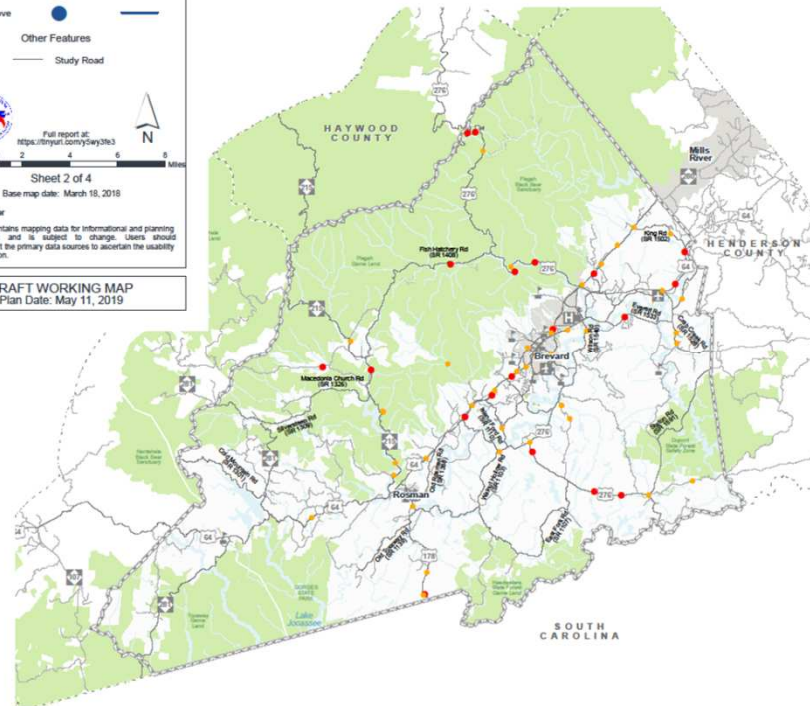
Where does the CTP fit into the “Big Picture”?



Reviewed High Frequency Crash Locations



Reviewed Severe Crash Locations



Reviewed Pedestrian Crash Locations

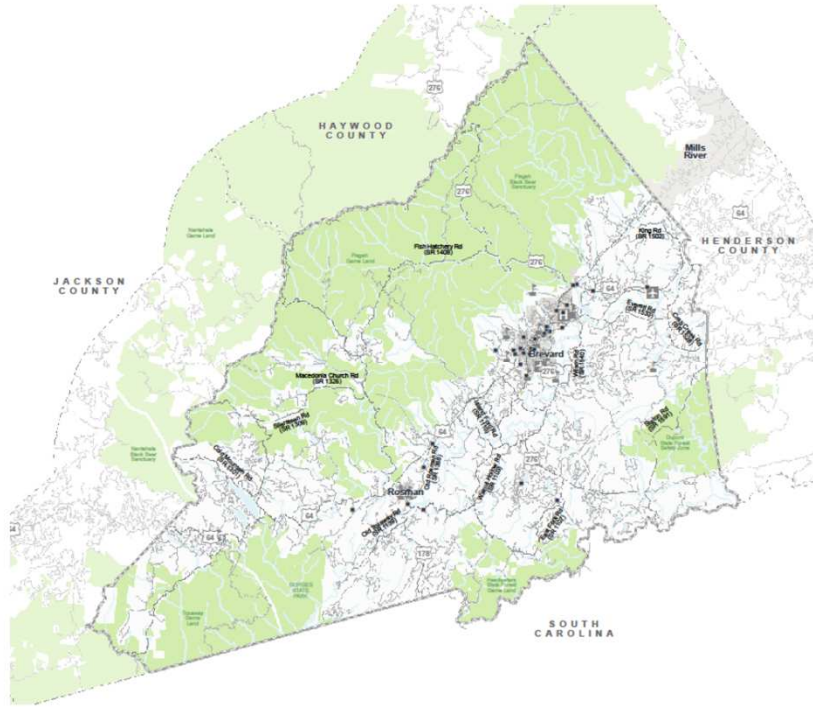
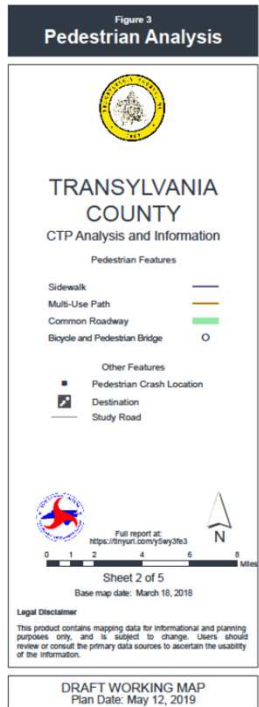


Figure 3
Pedestrian Analysis



Reviewed Bicycle Crash Locations

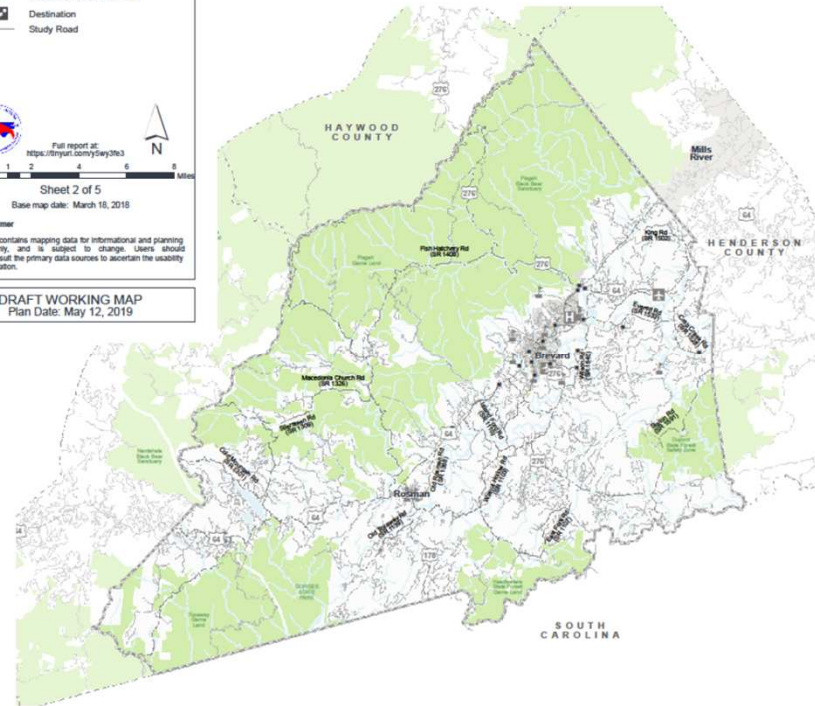
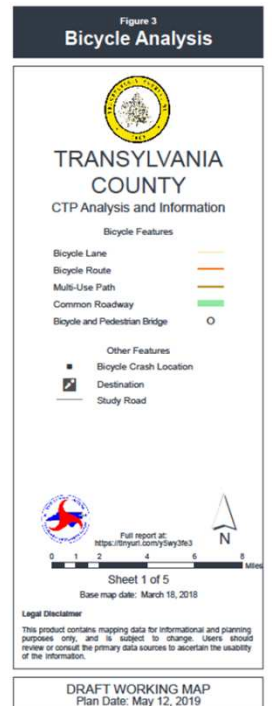
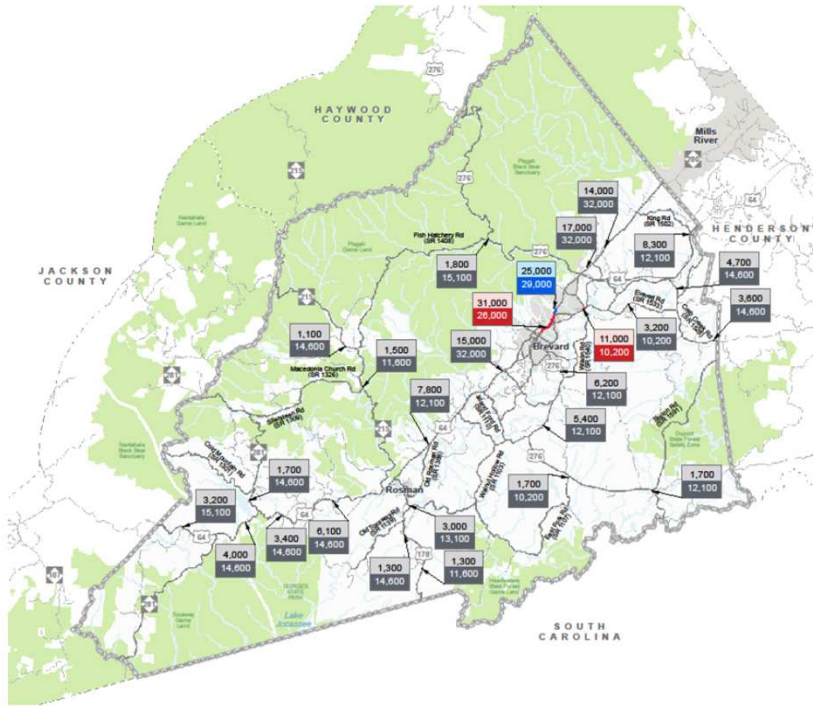


Figure 3
Bicycle Analysis



Reviewed 2017 Volume and Capacity



**Figure 2
2017 VOLUME AND
CAPACITY DEFICIENCIES**

**TRANSLYVANIA
COUNTY**

CTP Analysis and Information
Volume and Capacity Ratio Features
(Base Year 2017)

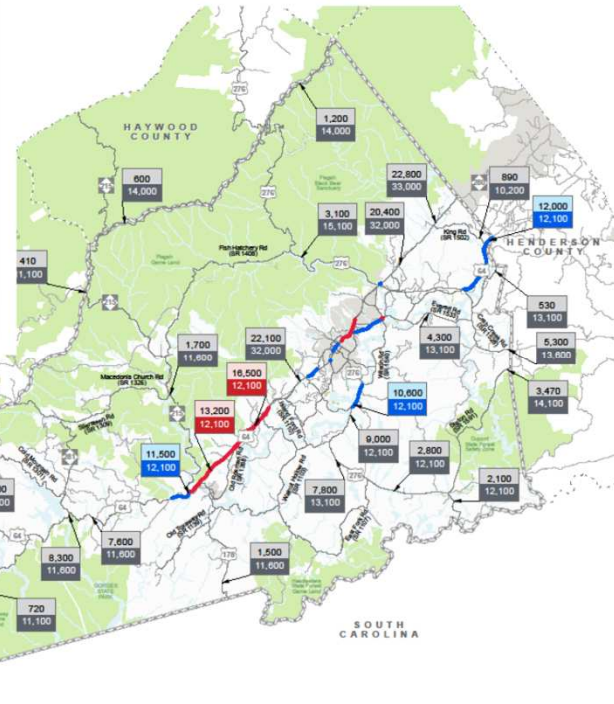
2017 Volume 2017 Capacity	Under Capacity (0-0.79)
2017 Volume 2017 Capacity	Near Capacity (0.80-0.99)
2017 Volume 2017 Capacity	Over Capacity (1.00+)

Full report at: <https://trnyrl.com/way363>

Sheet 1 of 2
Base map date: March 18, 2018

Legal Disclaimer
This product contains mapping data for informational and planning purposes only, and is subject to change. Users should review or consult the primary data sources to ascertain the usability of the information.

DRAFT WORKING MAP
Plan Date: May 12, 2019



**Figure 2
2045 VOLUME AND
CAPACITY DEFICIENCIES**

**TRANSLYVANIA
COUNTY**

CTP Analysis and Information
Volume and Capacity Ratio Features
(Future Year 2045)

2045 Volume 2045 Capacity	Under Capacity (0-0.79)
2045 Volume 2045 Capacity	Near Capacity (0.80-0.99)
2045 Volume 2045 Capacity	Over Capacity (1.00+)

Full report at: <https://trnyrl.com/way363>

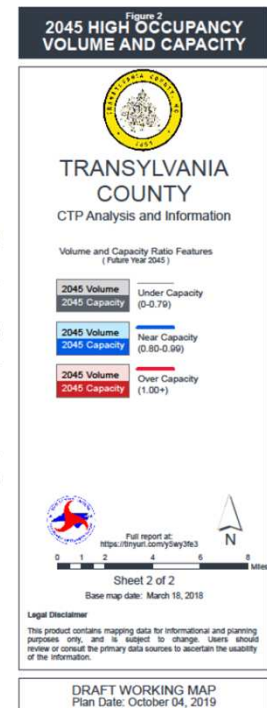
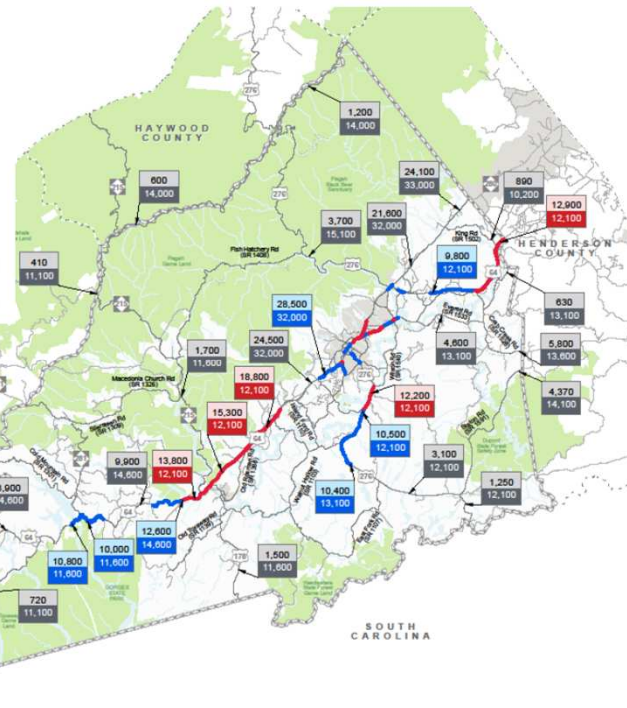
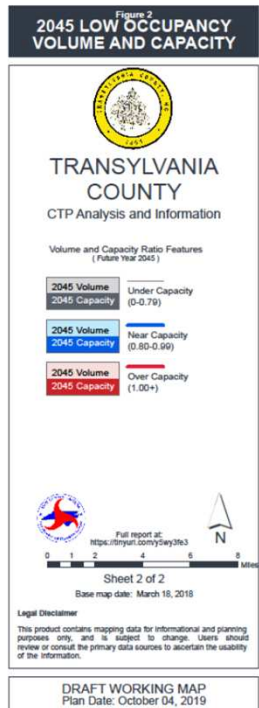
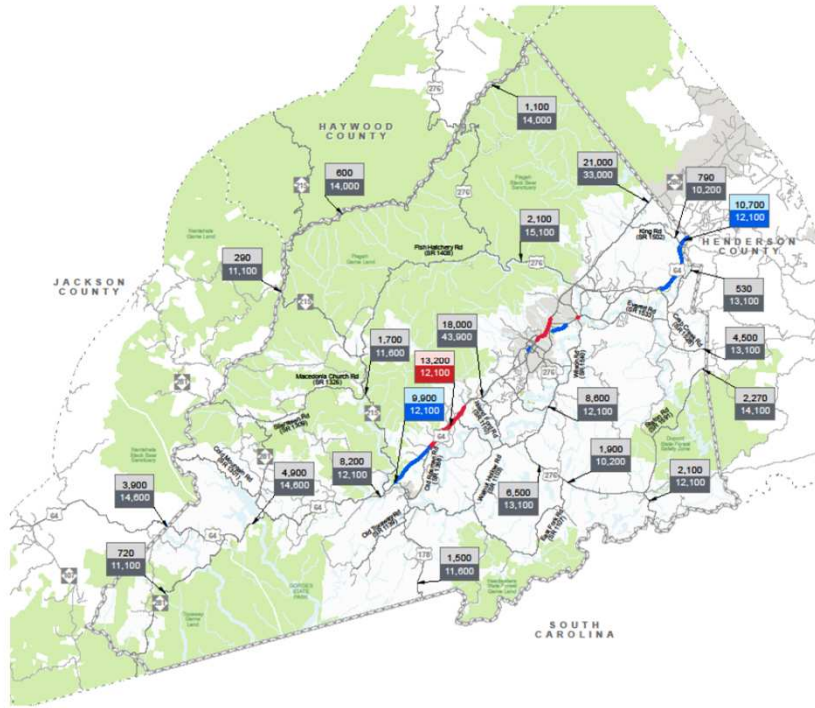
Sheet 2 of 2
Base map date: March 18, 2018

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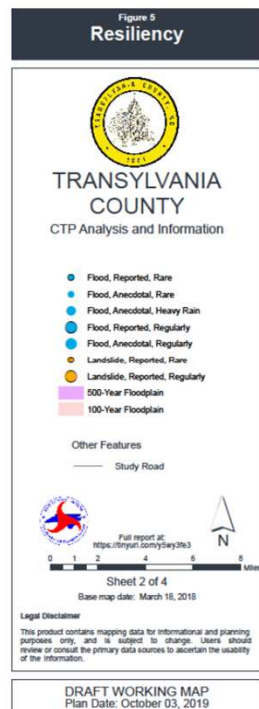
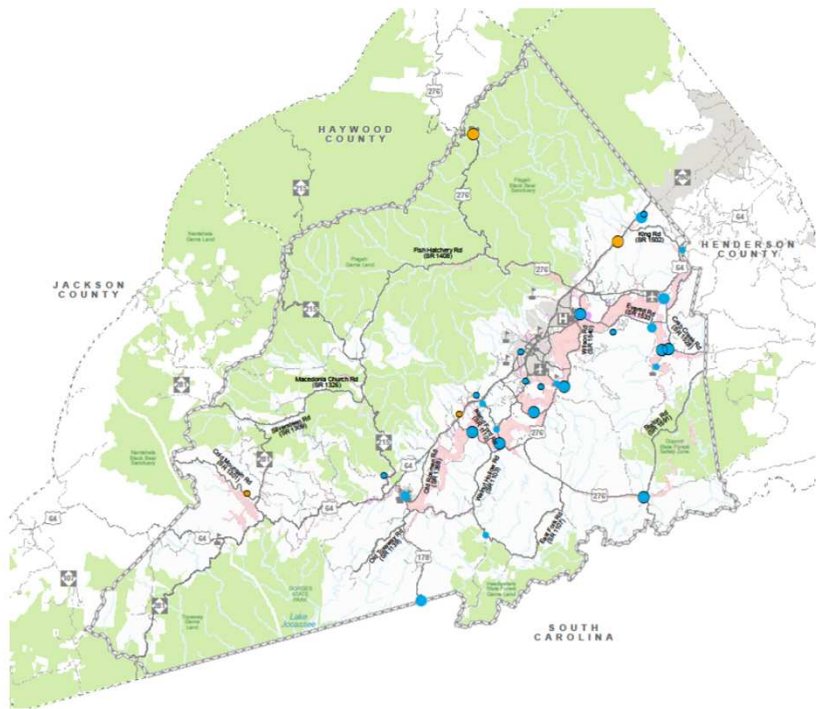
DRAFT WORKING MAP
Plan Date: October 04, 2019

Reviewed 2045 Projected Volume And Capacity

Reviewed 2045 Seasonal Projections LOW Occupancy



Seasonal Traffic Projections HIGH Occupancy

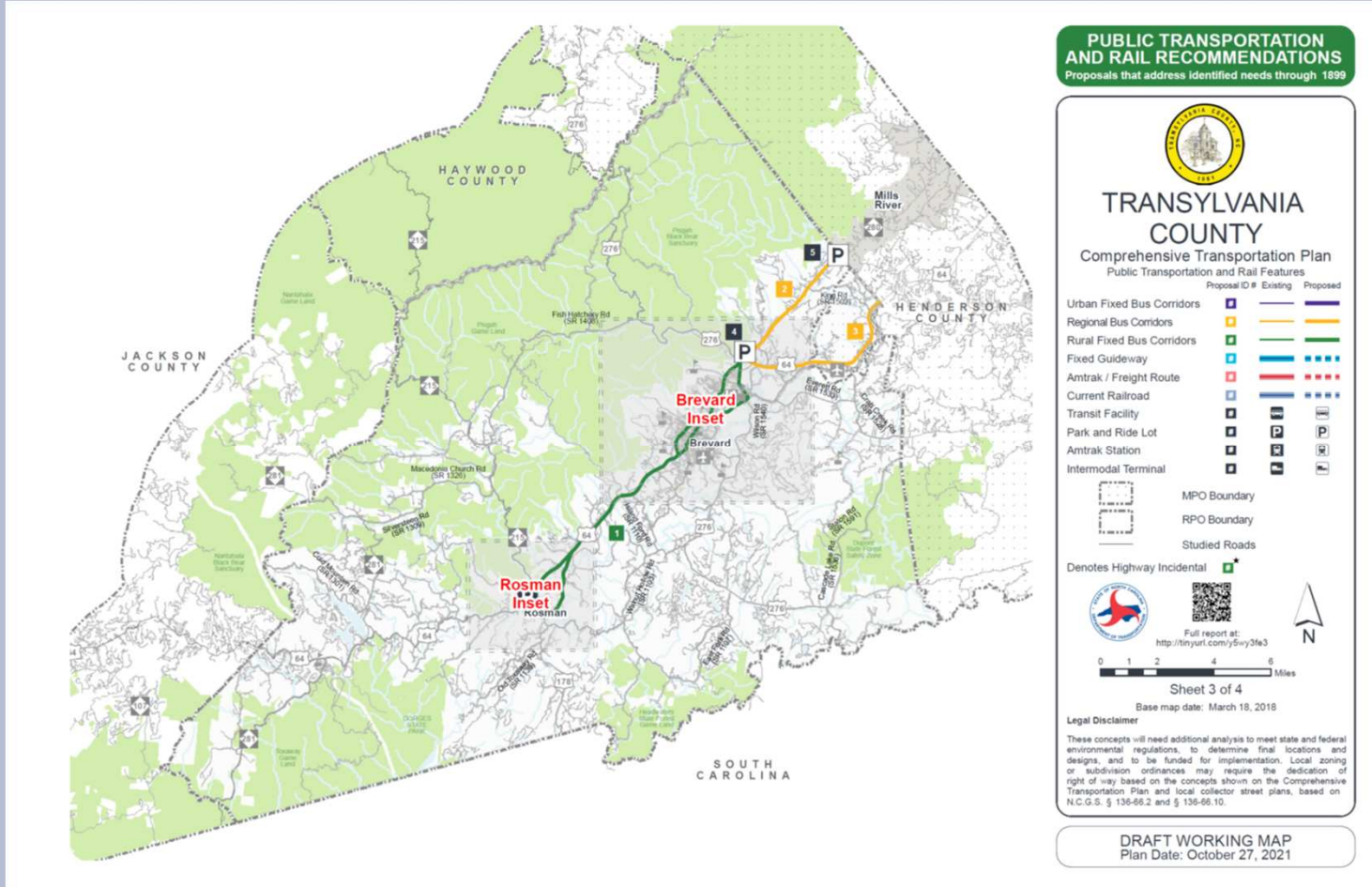


Transportation System Resiliency

Resiliency maps. (Mark-up exercise)

- Large format maps of Resiliency available on tables
- Review maps and identify any gaps or additional areas of concern
- Draw in additional Resiliency concerns (flooding/land and rockslides other resiliency concerns)

Public Transportation



Projects

Where we left off

- At our last meeting, we were preparing to go to public involvement on the project list.
- TPD Management wanted to review the information beforehand so they wouldn't be surprised by any comments from the public
 - This is about all plans not this one.
 - This went ok
- Except there was very little documentation available for the Bike and Pedestrian projects since they were adopted up from an existing plan.
- Since the CTP is a Needs based plan. Full documentation was desired for these projects. And that meant analysis.

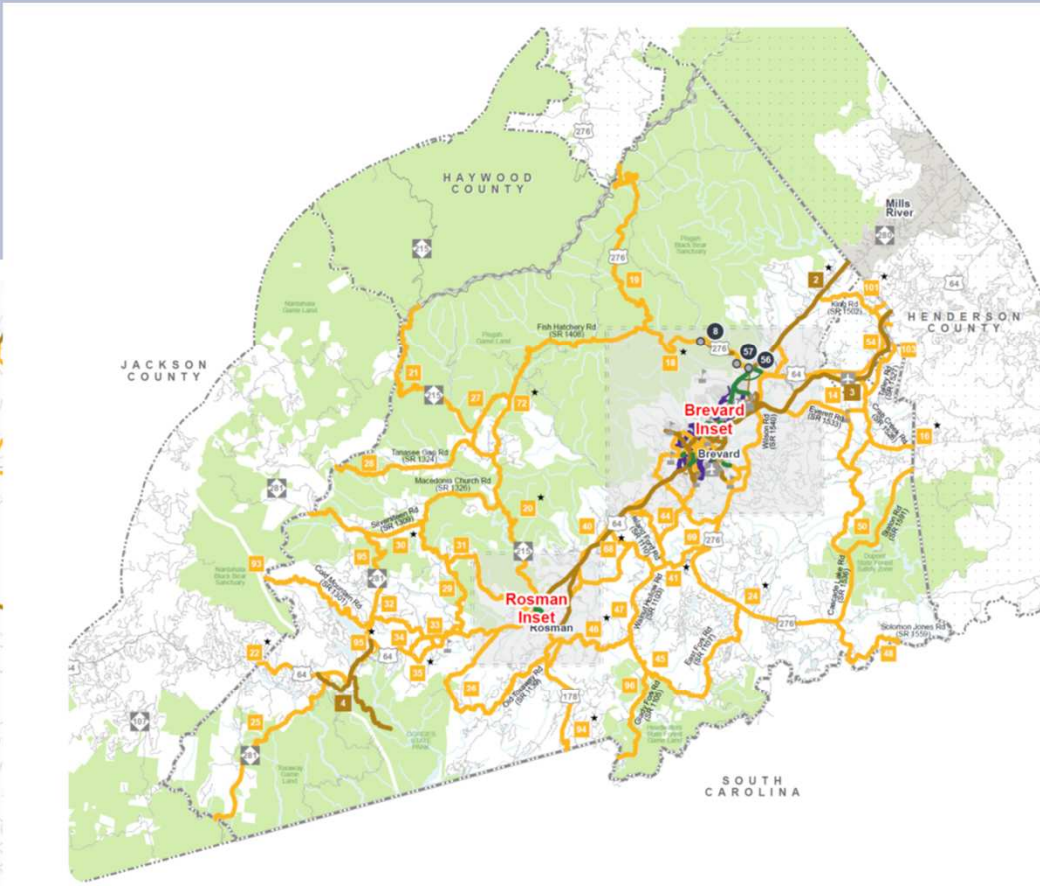
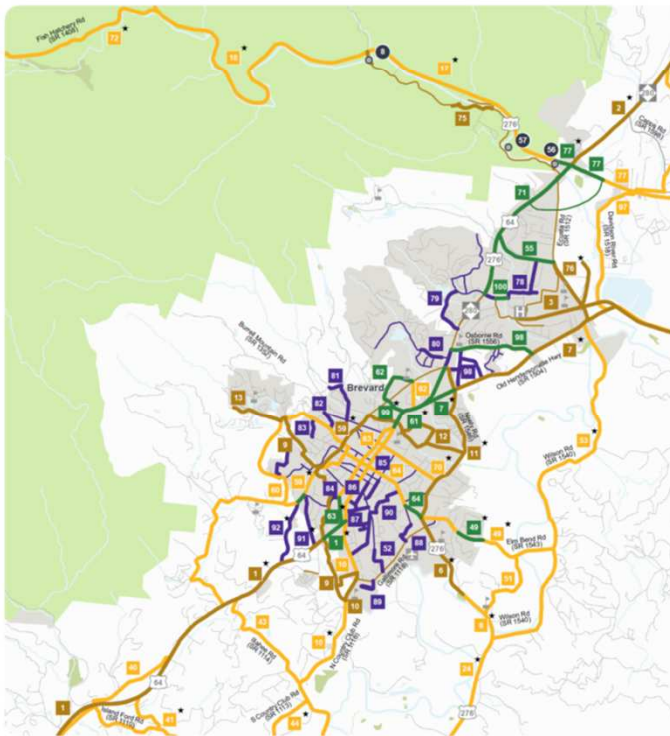
Bike Analysis

- We tested the project list through a variety of techniques to find one that met the goals of separating bike accommodations and facilities, and that addressed higher speed, yet lower volume roads.
- This later concern about speed was one we were hearing from many sources as an under addressed issue.
- This led us to testing:
 - CTP Bike Ped Planning Guidance,
 - A new destination and buffer analysis
 - Bike Suitability draft process
 - New Complete Streets Standards
 - FHWA “Small Town and Rural Multimodal Networks”
 - FHWA “Bikeway Selection Guide”

FHWA “Bikeway Selection Guide”

- We felt like the FHWA “Bikeway Selection Guide” covered everything we needed. It supersedes our existing technique and adds a speed dimension we were looking for.
- This was not an attempt to reinvent the wheel, but to provide us the ability to fill out the 100 project sheets for details we were missing.
- The different standards are really very similar, they just choose to emphasize different starting points and outcomes.
- Maps, Project List, and Project Sheets are in your handout.

Bike and Pedestrian Projects



environmental regulations, to determine tree locations and designs, and to be funded for implementation. Local zoning or subdivision ordinances may require the dedication of right of way based on the concepts shown on the Comprehensive Transportation Plan and local collector street plans, based on N.C.G.S. § 136-66.2 and § 136-66.10.

DRAFT WORKING MAP
Plan Date: April 27, 2022

BICYCLE / PEDESTRIAN RECOMMENDATIONS

Proposals that address identified needs through 1899



TRANSLYVANIA COUNTY

Comprehensive Transportation Plan

- Bicycle and Pedestrian Features**
- | | Proposal ID # | Existing | Proposed |
|-------------------------------|---------------|---------------------------|---------------------------|
| Bicycle | 1-10 | Orange line | Orange line |
| Pedestrian | 11-20 | Purple line | Purple line |
| Bicycle and Pedestrian | 21-30 | Green line | Green line |
| Multiuse Path | 31-40 | Green line | Green line |
| Bicycle and Pedestrian Bridge | 41-50 | Circle with orange center | Circle with orange center |
| Denotes Highway Incidental | | Star symbol | Star symbol |

Other Features

- Studied Roads (Dashed line)
- MPO Boundary (Dotted line)
- RPO Boundary (Dotted line)

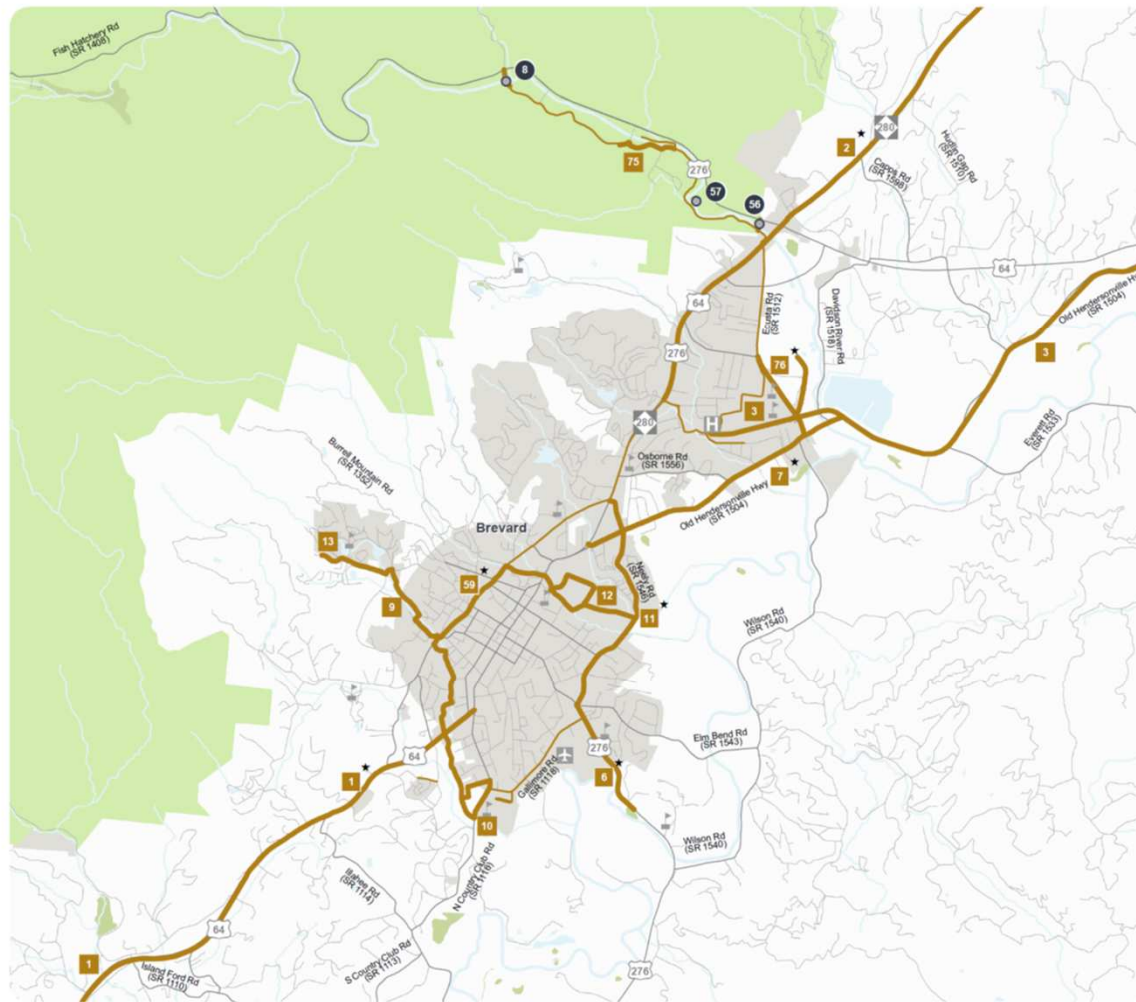
Full report at: <http://transylva.com/y5vry2fe3>

Sheet 4 of 4
Base map date: March 18, 2018

Legal Disclaimer
These concepts will need additional analysis to meet state and federal environmental regulations, to determine final locations and designs, and to be funded for implementation. Local zoning or subdivision ordinances may require the dedication of right of way based on the concepts shown on the Comprehensive Transportation Plan and local collector street plans, based on N.C.G.S. § 136-66.2 and § 136-66.10.

DRAFT WORKING MAP
Plan Date: May 26, 2022

Multi-Use Path System



BICYCLE / PEDESTRIAN RECOMMENDATIONS

Proposals that address Identified needs through 1899



TRANSYLVANIA COUNTY

Comprehensive Transportation Plan

Bicycle and Pedestrian Features

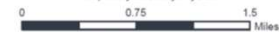
	Proposal ID #	Existing	Proposed
Bicycle	1		
Pedestrian	2		
Bicycle and Pedestrian	3		
Multiuse Path	4		
Bicycle and Pedestrian Bridge	5		
Denotes Highway Incidental	6		

Other Features

- Studied Roads
- MPO Boundary
- RPO Boundary



Full report at:
<http://tinyurl.com/y5wy3fe3>



Sheet 4 of 4

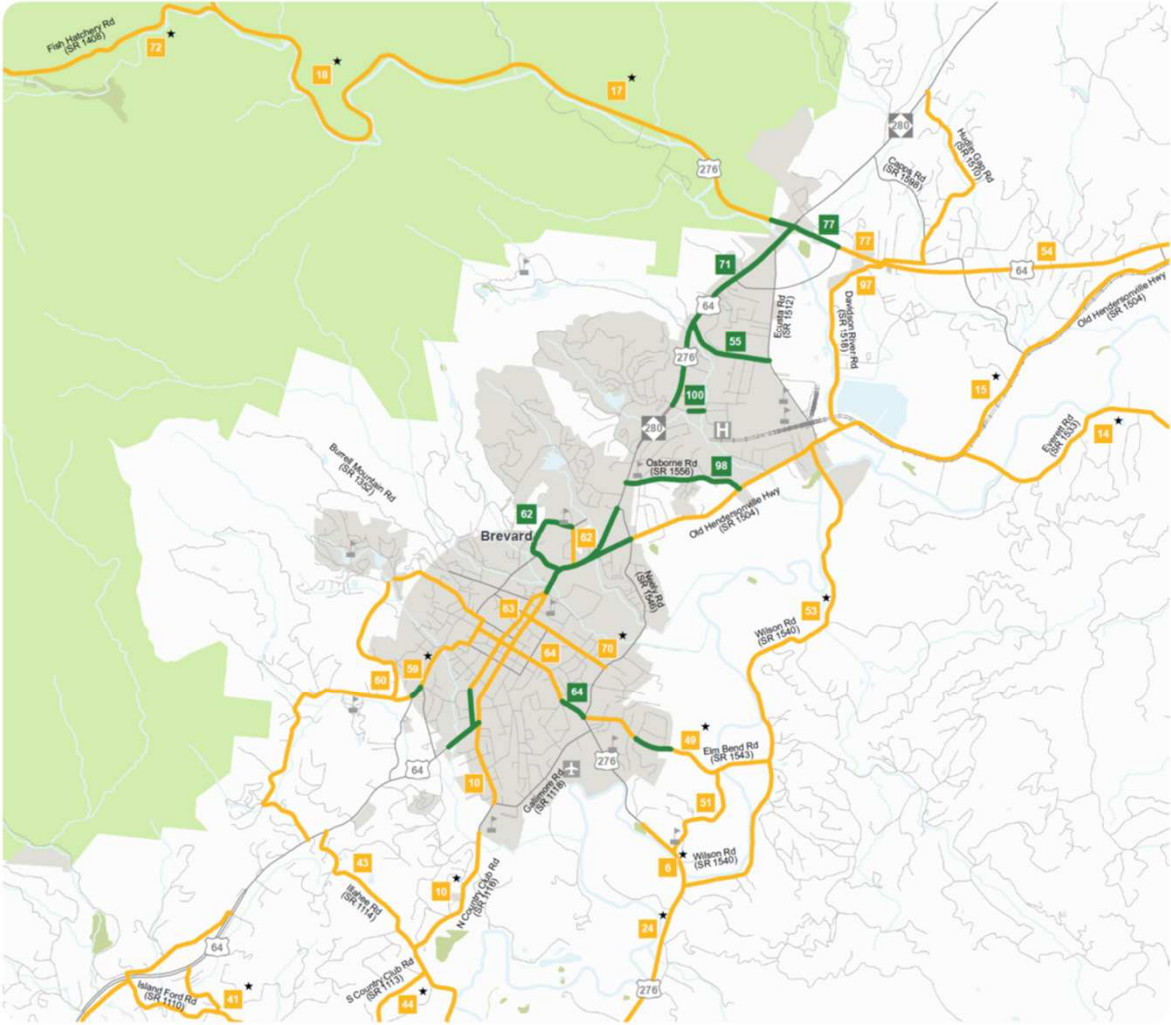
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DRAFT WORKING MAP
Plan Date: October 03, 2022

Bike System



BICYCLE / PEDESTRIAN RECOMMENDATIONS

Proposals that address identified needs through 1899



TRANSYLVANIA COUNTY

Comprehensive Transportation Plan
Bicycle and Pedestrian Features

	Proposal ID #	Existing	Proposed
Bicycle	100		
Pedestrian	100		
Bicycle and Pedestrian	100		
Multiuse Path	100		
Bicycle and Pedestrian Bridge	100		
Denotes Highway Incidental	100		

Other Features

- Studied Roads
- MPO Boundary
- RPO Boundary

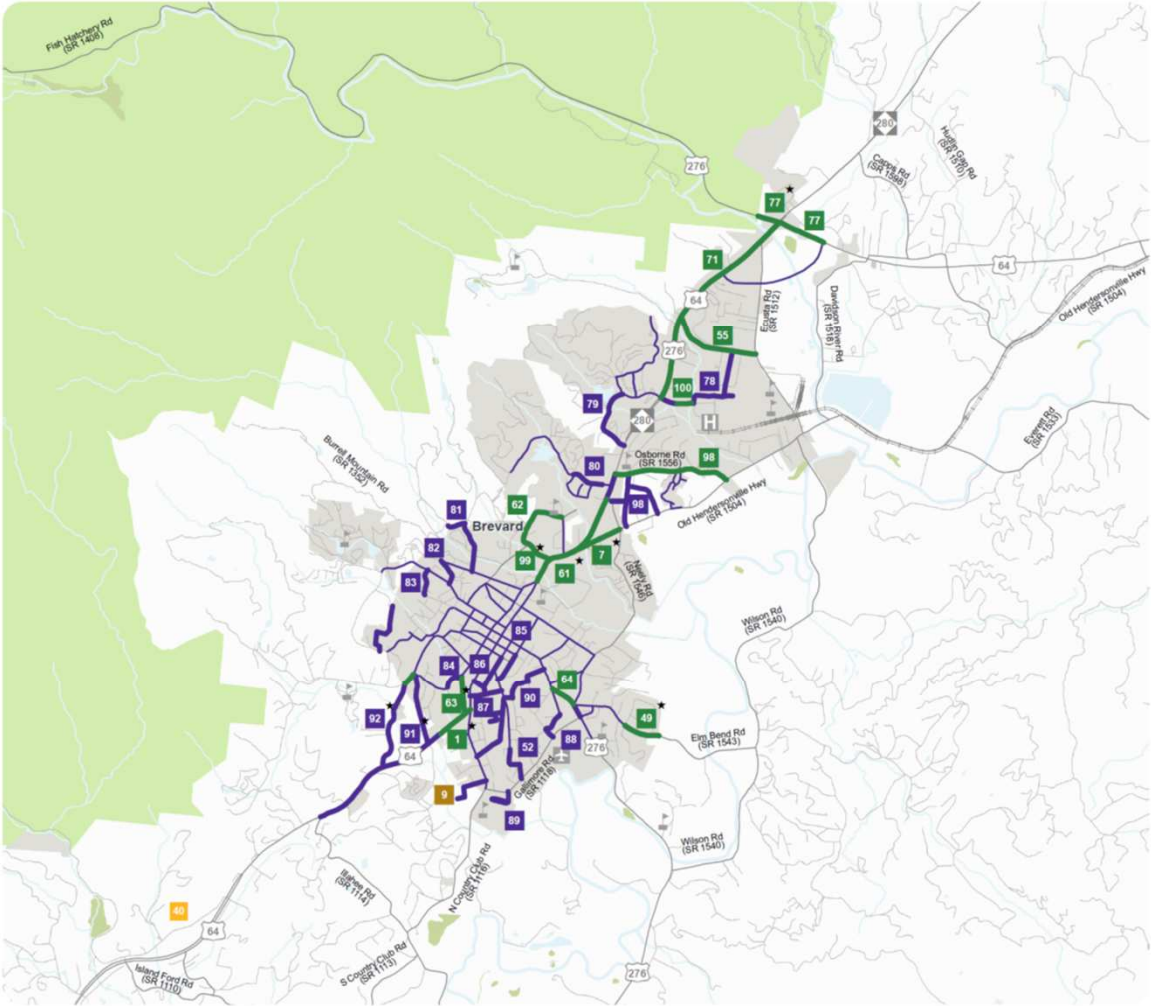
Full report at: <http://tinyurl.com/y5wy3fe3>

Sheet 4 of 4
Base map date: March 18, 2018

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DRAFT WORKING MAP
Plan Date: October 03, 2022

Pedestrian System



BICYCLE / PEDESTRIAN RECOMMENDATIONS

Proposals that address identified needs through 1899



TRANSLYVANIA COUNTY

Comprehensive Transportation Plan
Bicycle and Pedestrian Features

	Proposal ID #	Existing	Proposed
Bicycle			
Pedestrian			
Bicycle and Pedestrian			
Multiuse Path			
Bicycle and Pedestrian Bridge			
Denotes Highway Incidental			

Other Features

- Studied Roads
- MPO Boundary
- RPO Boundary



Full report at:
<http://tinyurl.com/y5wy3fe3>



Sheet 4 of 4

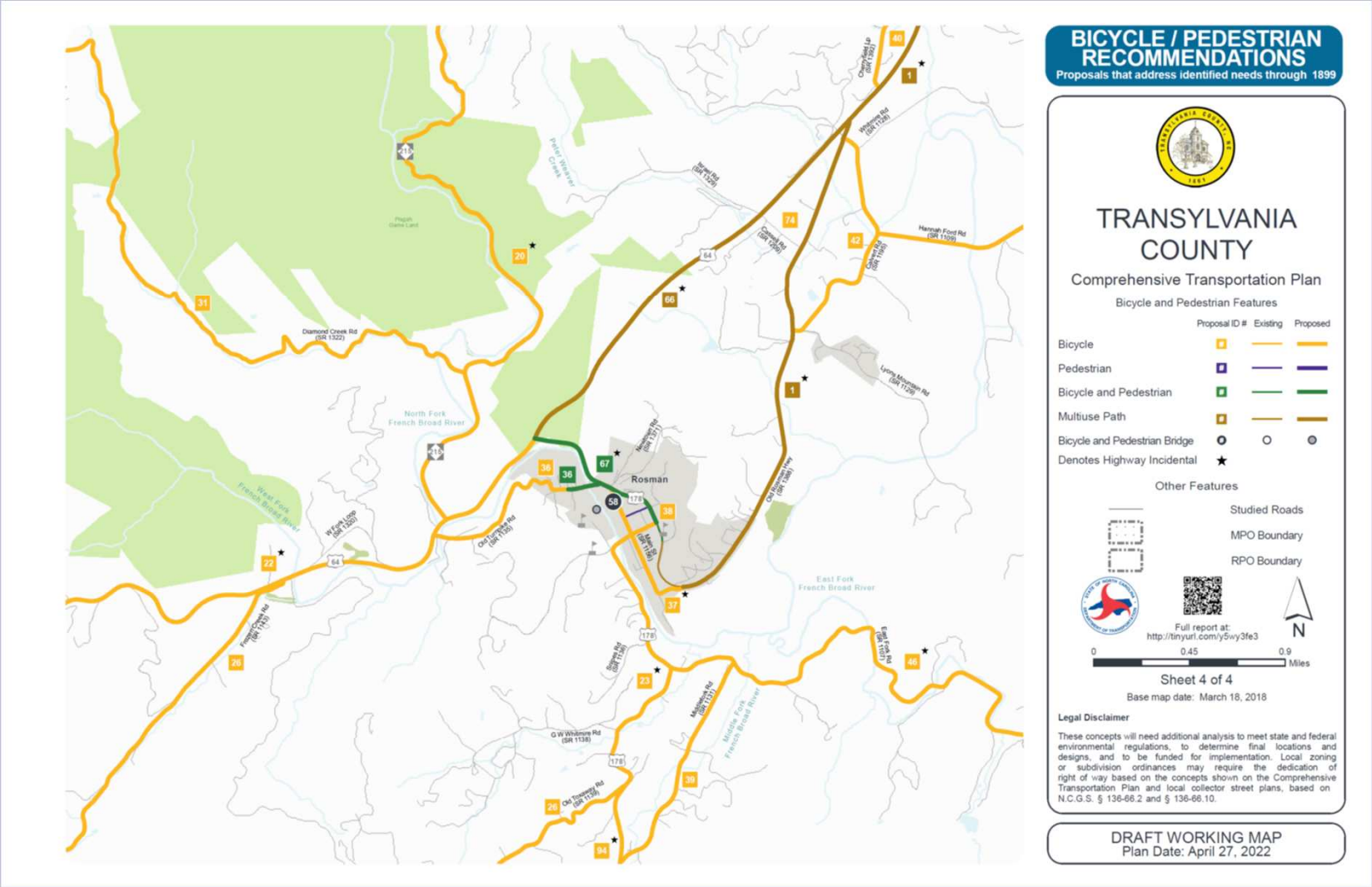
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DRAFT WORKING MAP
Plan Date: October 03, 2022

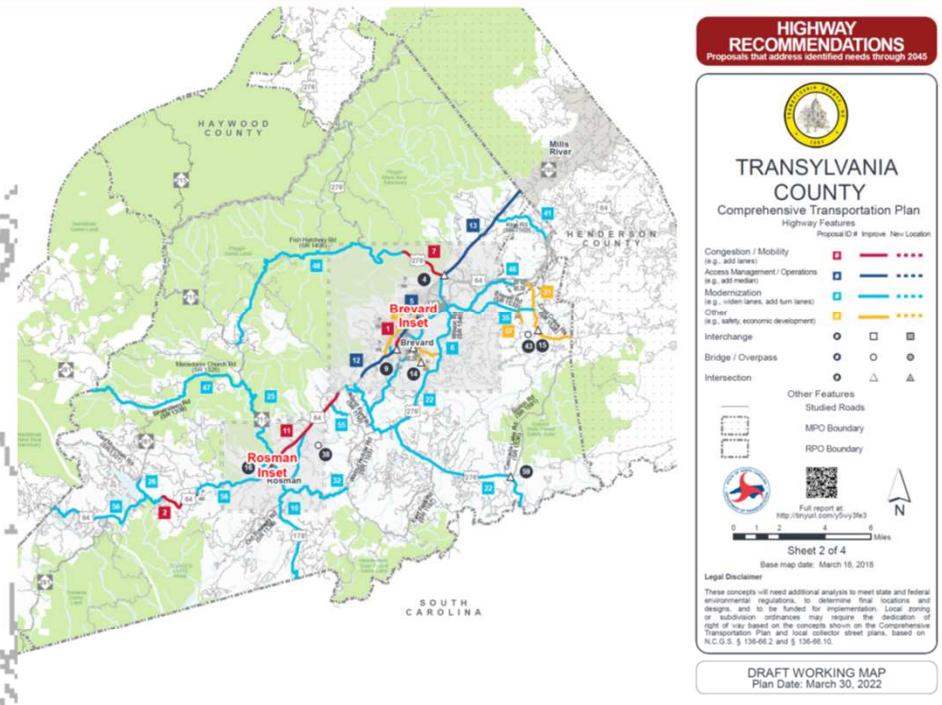
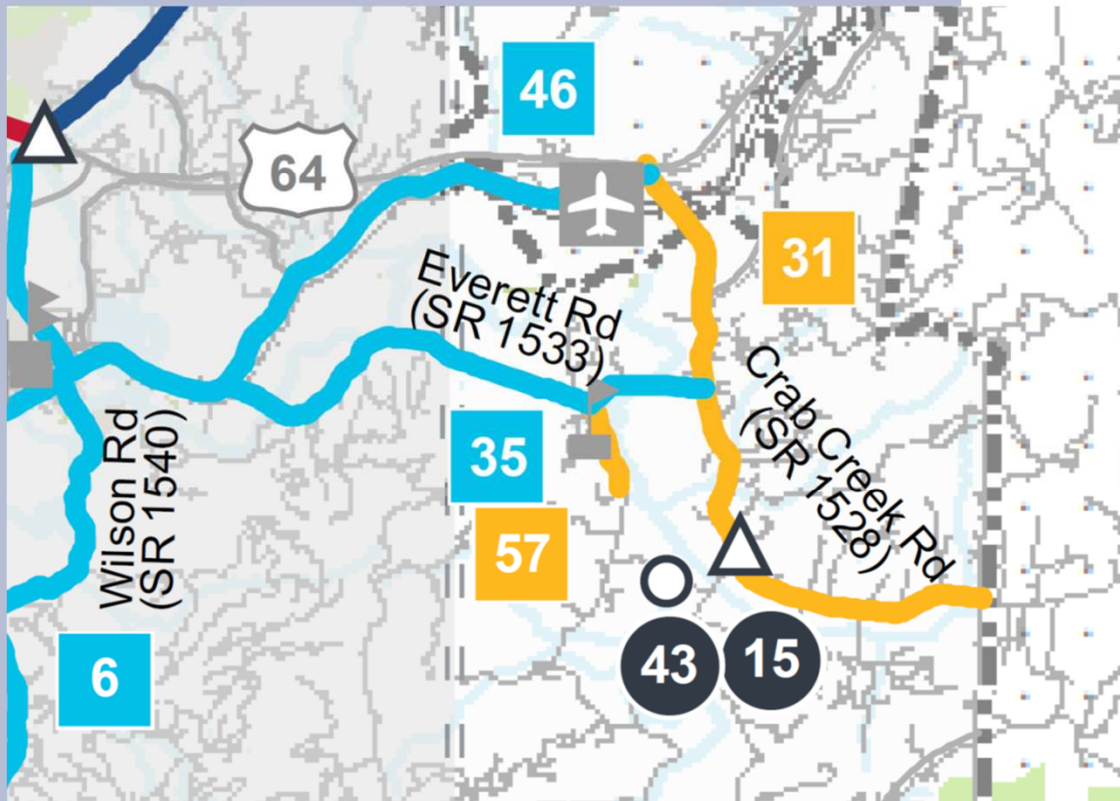
Pedestrian System



Highway

- The only new highway project developed during the interim was #57
- Hart Rd (SR 1534) Flood Mitigation from Everett Rd (SR 1533) to Eagles Nest Ln
 - Raise the grade on Hart Road, replace 48" CMP carrying unnamed tributary under Hart Road with 137" x 87" CSPA, install equalizer pipes, right of way, utilities, grade and pave road, erosion control, and traffic control.
- Developed with Division for a grant application
 - Won the Grant
- Project Table, Project List, and Project Sheets

Highway Projects



Survey

Survey

Feel free to experiment with it. The results will not be saved before going live.

DRAFT Transylvania County Identified Highway and Public Transit Needs Survey

English - <https://demo.metroquestsurvey.com/jno21>

Spanish - <https://demo.metroquestsurvey.com/8yg9>

DRAFT Transylvania County Identified Pedestrian and Bicycle Needs Survey

English - <https://demo.metroquestsurvey.com/zp2t2t>

Spanish - <https://demo.metroquestsurvey.com/fa3l3r>

Survey Comments Received so far...

- Bike/Ped not much distinction between lines can colors be changed
 - *Bike GIS data updated to show projects identified in prior plans as gray lines*
- On Highway survey color of boxes doesn't match line color
 - *Investigated but survey tool does not allow changes*
- Some of the photos in Highway projects don't reflect nature of the location.
 - *Have to work with stock images in survey tool, updated some of the photos.*

Public Outreach Strategy for Survey and Public Meeting

- Media outlets?
- Workgroup members share with networks
- Planning Department both city and county blast out to social media lists
- Other suggestions?

Next Steps

Next Steps

- Make requested edits to surveys, between now and next months meeting early November
- Release to the public Mid November
- Public input meeting Mid January
- Survey closes the next week to compile results
- Hold CTP workgroup meeting week of early February to review survey results

Future Meetings

- Transylvania TAC Oct. 18th
- CTP Workgroup meeting Early November Location TBD.



Contact info for your team

- Vicki Eastland, Land of Sky RPO, vicki.eastland@landofsky.org 828-251-6622
- Daniel Sellers, NCDOT TPD, dcsellers1@ncdot.gov 919-707-0978
- Steve Williams, NCDOT Division 14, sjwilliams@ncdot.gov 828-586-2141
- Troy Wilson, NCDOT Division 14, tswilson@ncdot.gov 828-586-2141
- Lonnie Watkins, NCDOT Division 14, lnwatknis@ncdot.gov 828-891-7911



What's the CTP going to look like?

Example of County Core CTP Document

<https://connect.ncdot.gov/projects/planning/TPB%20Documents/Example-County-CTP-Core%20Section%202021-6-7.pdf>

Example of County CTP Appendix Document

<https://connect.ncdot.gov/projects/planning/TPB%20Documents/Example-County-CTP-Appendix-2021-06-02.pdf>