

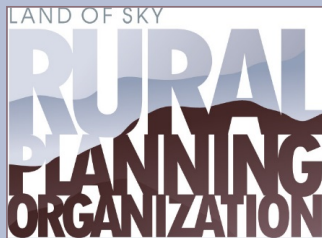
Transylvania County Comprehensive Transportation Plan (CTP) Meeting #7

NCDOT Transportation Planning Division (TPD)

Daniel Sellers, PE

Land of Sky Rural Planning Organization (LOSRPO)

Vicki Eastland



Welcome and Introductions



Vicki Eastland, LOSRPO
June 1, 2020

Agenda

10:00 AM Welcome and Introductions

10:05 AM Open group discussion and questions

10:15 AM Highway Identified Needs List Wrap-up

10:35 AM Review Bike and Pedestrian Maps

11:25 AM Next meeting Date?

11:30 AM Wrap-Up

Moving Forward...

Identify Highway Deficiencies addressed in CTP

<u>Map ID</u>	<u>TIP No.</u>	<u>Location Description</u>	<u>Status</u>	<u>Type</u>
11	H170396	US 64 from US 178 to existing 4-lane	Proposed	Address congestion and improve system coherency by widening to 4-lane Divided
12		US 64 from South Broad Street to existing 4-lane.	Proposed	Replace center lane with median.
13	H170251	NC 280 from US 276 to Henderson County	Proposed	Replace center lane with median.
14*		Intersection of US 276 and Parkview Drive	Proposed	Improve Intersection
15*		Intersection of Cascade Lake Road and Crab Creek Road	Proposed	Improve Intersection
16*		NC 215 and US 64	Proposed	Improve Intersection
17	R-5743	Railroad Avenue Extension, partially new location partially existing	Proposed	Improve connectivity for schools and neighborhoods on west side of Brevard.

Daniel Seller, PE, NCDOT

Existing Projects

<u>Map ID</u>	<u>TIP No.</u>	<u>Location Description</u>	<u>Status</u>	<u>Type</u>
1	U-5104	Caldwell Street from Probart Street to US 64	Complete	Roadway with Multi-Modal Components
2	R-2409C	US 64, Lake Toxaway to Indian Creek	Complete	Improve alignment, lane widths, shoulders, and climbing lanes
3	R-5605	Davidson River Village Connector from US-64 to US-276/US-64 in Pisgah Forest	Under Construction	New Location Roadway with Multi-Modal Components
4*	R-5799	Pisgah Forest Intersection	Under Design	Intersection/Bike and Pedestrian
5	R-5800	Asheville Highway, US 276	Under Design	Access Management
6	R-5763	Wilson Road	Under Design	Improve alignment, lane widths, and shoulders
7	R-5865	US 276 in Pisgah Forest	Under Design	3 lane cross section with bike facilities
8	EB-5858	Davidson River Pedestrian Bridge	Under Design	Bike and Pedestrian Bridge across Davidson River near Pisgah Forest
9*	R-5882	Rosman Highway, North Country Club, Caldwell Street	In Draft STIP	Intersection Improvements
10	R-5919	US 178, Rosman	In Draft STIP	Improve alignment, lane widths, and shoulders

Proposed Hwy Projects

<u>Map ID</u>	<u>TIP No.</u>	<u>Location Description</u>	<u>Status</u>	<u>Type</u>
11	H170396	US 64 from US 178 to existing 4-lane	Proposed	Address congestion and improve system coherency by widening to 4-lane Divided
12		US 64 from South Broad Street to existing 4-lane.	Proposed	Replace center lane with median.
13	H170251	NC 280 from US 276 to Henderson County	Proposed	Replace center lane with median.
14*		Intersection of US 276 and Parkview Drive	Proposed	Improve Intersection
15*		Intersection of Cascade Lake Road and Crab Creek Road	Proposed	Improve Intersection
16*		NC 215 and US 64	Proposed	Improve Intersection
17	R-5743	Railroad Avenue Extension, partially new location partially existing	Proposed	Improve connectivity for schools and neighborhoods on west side of Brevard.

* Point projects marked on maps with a triangle (intersections), square (interchanges), or circle (bridges).

Workgroup Identified Hwy Deficiency Projects

<u>Map ID</u>	<u>TIP No.</u>	<u>Location Description</u>	<u>Type</u>	<u>Identified Purpose</u>
		US 64 (N Broad Street) from N Caldwell Street to Old Henderson Highway (SR 1504)	Congestion	Address anticipated 2045 capacity deficiency
		US 176 from Middlefork Road (SR 1133) to South Carolina	Modernization	Improve alignment, lane widths, and shoulders to current design standards
		US 276 from Wilson Road (SR 1540) to South Carolina	Modernization	Improve alignment, lane widths, and shoulders to current design standards
		US 276 from Avery Creek Trail Head to Fish Hatchery Road (SR 1408)	Modernization	Improve alignment, lane widths, and shoulders to current design standards
		US 276 from Gallimore Road (SR 1118) to Wilson Road (SR 1504)	Modernization & Resiliency	Improve alignment, lane widths, and shoulders to current design standards. Improve Resiliency to flooding
		NC 215 from US 64 to Macedonia Church Road (SR 1326)	Modernization	Improve alignment, lane widths, and shoulders to current design standards
		NC 281 from US 64 to Cold Mountain Rd	Modernization	Improve alignment, lane widths, and shoulders to current design standards
*		Becky Mountain Road (SR 1538) at US 276	Resiliency	Improve Resiliency to Flooding

		Carolina Avenue from US 64 to existing 20' cross-section	Modernization	Improve alignment, lane widths, and shoulders to current design standards
*		Cascade Lakes Road (SR 1536) at Crab Creek	Resiliency	Improve Resiliency to Flooding
		Country Club Road (SR 1116 & SR 1115) from Gallimore Road (SR 1118) to Island Ford Road (SR 1110)	Modernization	Improve alignment, lane widths, and shoulders to current design standards
	H111128	Crab Creek Road (SR 1528) from US 64 to Henderson County - Dupont Road (SR 1259)	Modernization & Resiliency	Improve alignment, lane widths, and shoulders to current design standards. Improve Resiliency to flooding
		East Fork Road (SR 1107) from US 178 to Walnut Hollow Road (SR 1103)	Modernization	Improve alignment, lane widths, and shoulders to current design standards
	H150561	Ecusta Road (SR 1512) from US 64 to Old Henderson Highway (1504)	Modernization	Improve alignment, lane widths, and shoulders to current design standards
		Elm Bend Road (SR 1543) from US 276 to Wilson Road (SR 1504)	Modernization & Resiliency	Improve alignment, lane widths, and shoulders to current design standards. Improve Resiliency to flooding
		Everett Road (SR 1533) from Old Henderson Highway (1504) to Crab Creek Road (SR 1528)	Modernization	Improve alignment, lane widths, and shoulders to current design standards

		French Broad Street (SR 1544) from US 64 to Neely Road (SR 1546)	Modernization	Improve alignment, lane widths, and shoulders to current design standards
		Gallimore Road (SR 1118) from S 276 to N Country Club Road (SR 1116)	Modernization	Improve alignment, lane widths, and shoulders to current design standards
*		Hanna Ford Road (SR 1127) at Limekiln Branch of the French Broad River	Resiliency	Improve Resiliency to Flooding
*		Intersection of US 276 and Elm Bend Road (SR 1543)	Safety	Improve Alignment of Intersection
		Island Ford Road (SR 1110) from US 64 to US 276	Modernization & Resiliency	Improve alignment, lane widths, and shoulders to current design standards. Improve Resiliency to flooding
		King Road (SR 1502) from US 64 to NC 280	Modernization	Improve alignment, lane widths, and shoulders to current design standards
		Main Street (SR 1156) from US 178 to Old Rosman Road (SR 1388)	Resiliency	Improve Resiliency to Flooding

Bike and Pedestrian Network



CITY OF BREVARD

COMPREHENSIVE PEDESTRIAN PLAN

ORIGINALLY ADOPTED 2006
INFRASTRUCTURE PRIORITY MAPS
UPDATED MARCH 19, 2018

<https://www.cityofbrevard.com/DocumentCenter/View/2353/Pedestrian-Plan-2018-Update>



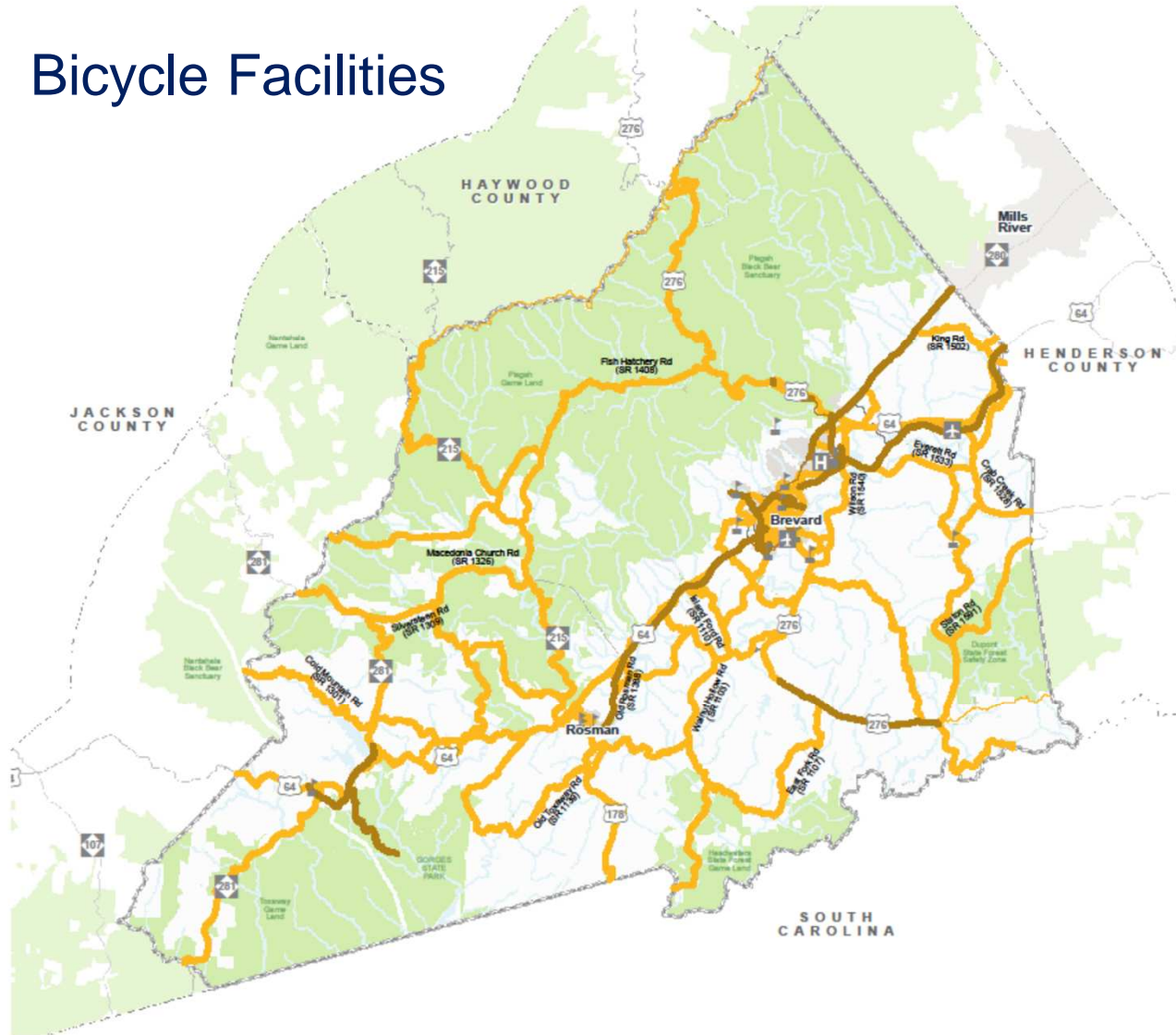
Transylvania County BICYCLE PLAN



<https://www.transylvaniacounty.org/departments/planning-and-community-development/bike-plan>

Vicki Eastland, LOSRPO

Bicycle Facilities



BICYCLE / PEDESTRIAN RECOMMENDATIONS

Proposals that address identified needs through 2045



TRANSLYVANIA COUNTY

Comprehensive Transportation Plan

Bicycle and Pedestrian Features

	Proposal ID #	Existing	Proposed
Bicycle	Orange square	Orange line	Thick orange line
Pedestrian	Purple square	Purple line	Thick purple line
Bicycle and Pedestrian	Green square	Green line	Thick green line
Bicycle and Pedestrian Bridge	Circle with dot	Circle with dot	Circle with dot
Multiuse Path	Orange square	Orange line	Thick orange line

Other Features

Studied Roads



Full report at:
<http://tinyurl.com/ySvy3fe3>



0 1 2 4 6 8 Miles

Sheet 4 of 4

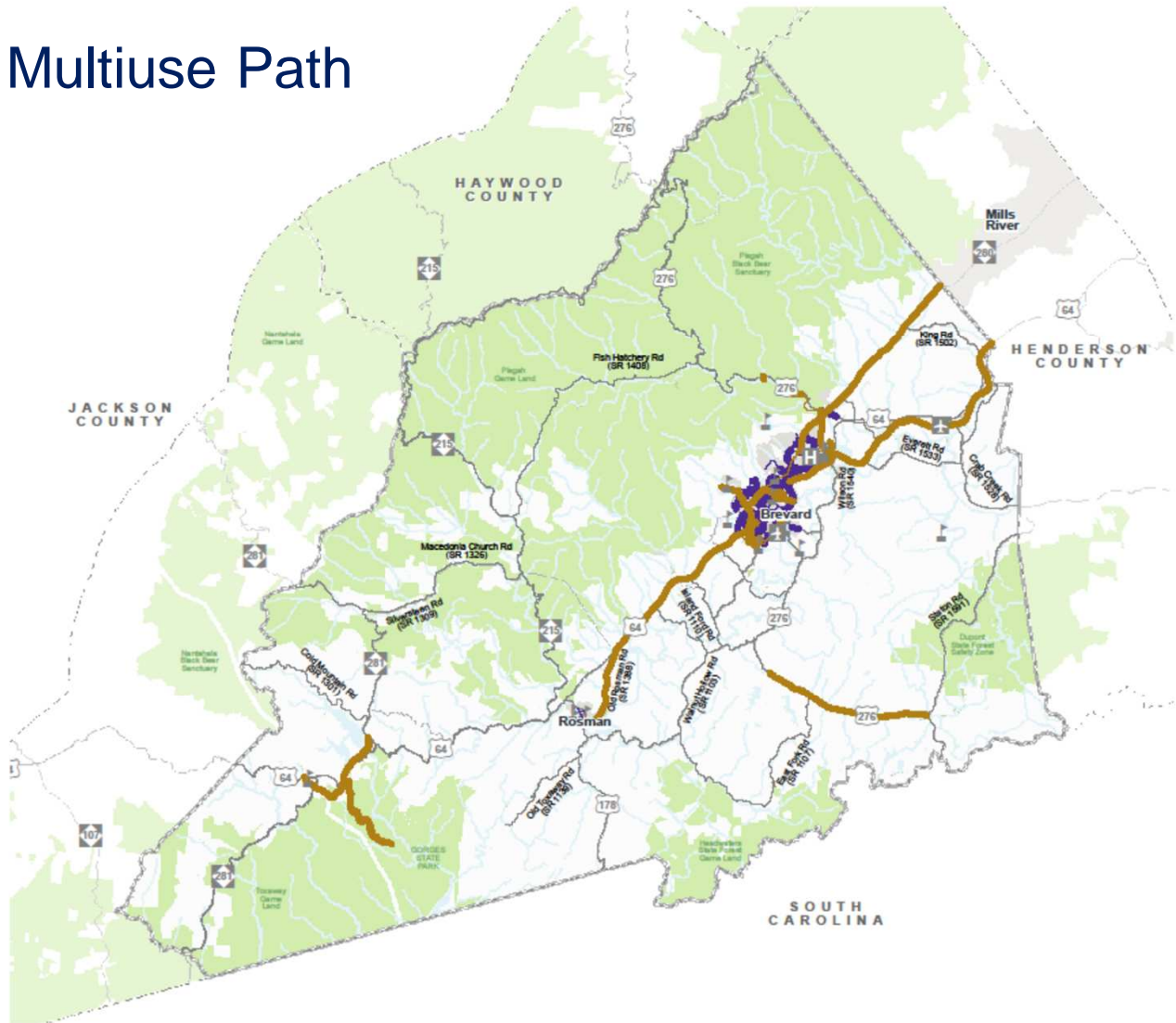
Base map date: March 18, 2018

Legal Disclaimer

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DRAFT WORKING MAP
Plan Date: May 15, 2020

Multiuse Path



BICYCLE / PEDESTRIAN RECOMMENDATIONS

Proposals that address identified needs through 2045



TRANSYLVANIA COUNTY

Comprehensive Transportation Plan

Bicycle and Pedestrian Features

	Proposal ID #	Existing	Proposed
Bicycle	1	2	3
Pedestrian	4	5	6
Bicycle and Pedestrian	7	8	9
Bicycle and Pedestrian Bridge	10	11	12
Multiuse Path	13	14	15

Other Features

Studied Roads



Sheet 4 of 4

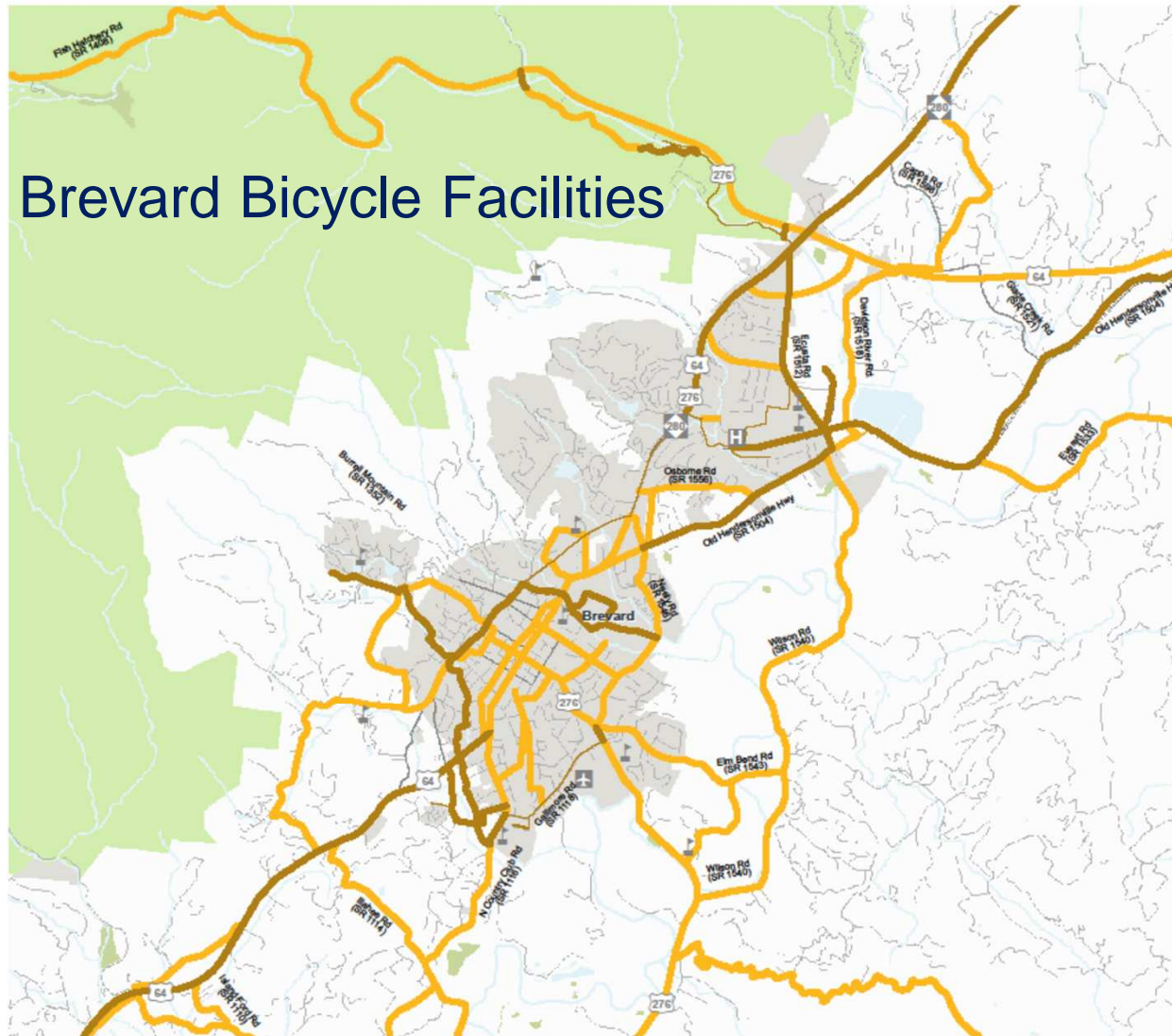
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DRAFT WORKING MAP
Plan Date: May 15, 2020

Brevard Bicycle Facilities



BICYCLE / PEDESTRIAN RECOMMENDATIONS

Proposals that address identified needs through 2045



TRANSLYVANIA COUNTY

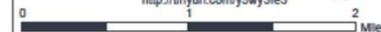
Comprehensive Transportation Plan

Bicycle and Pedestrian Features

	Proposal ID #	Existing	Proposed
Bicycle	1	2	3
Pedestrian	4	5	6
Bicycle and Pedestrian	7	8	9
Bicycle and Pedestrian Bridge	10	11	12
Multiseuse Path	13	14	15
Other Features			
Studied Roads			



Full report at:
<http://tinyurl.com/ySwy3te3>



Sheet 4 of 4

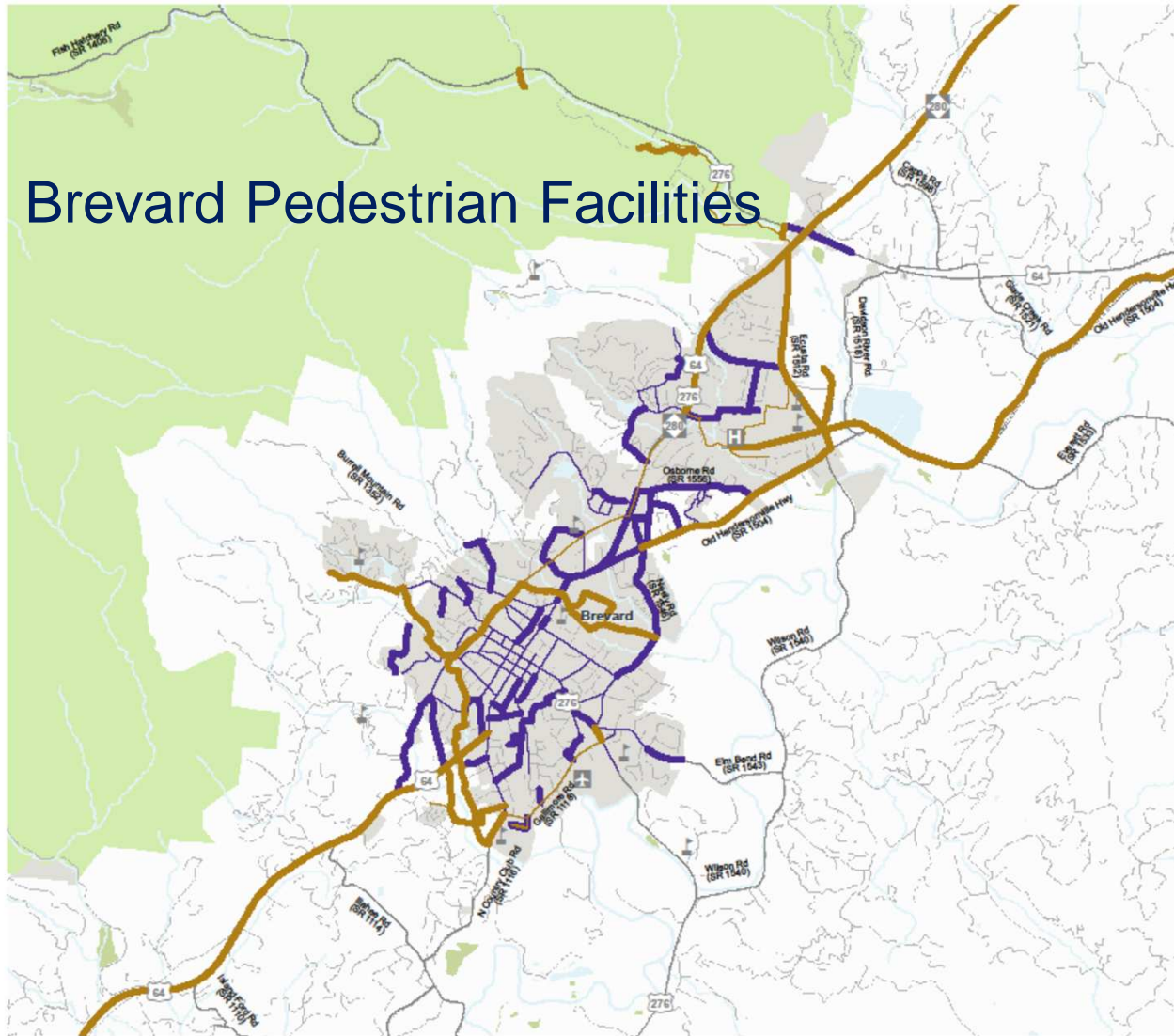
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DRAFT WORKING MAP
Plan Date: May 15, 2020

Brevard Pedestrian Facilities



BICYCLE / PEDESTRIAN RECOMMENDATIONS

Proposals that address identified needs through 2045



TRANSYLVANIA COUNTY

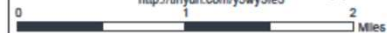
Comprehensive Transportation Plan

Bicycle and Pedestrian Features

	Proposal ID #	Existing	Proposed
Bicycle	Orange square	Orange line	Thick orange line
Pedestrian	Purple square	Purple line	Thick purple line
Bicycle and Pedestrian	Green square	Green line	Thick green line
Bicycle and Pedestrian Bridge	Circle with dot	Circle	Circle with dot
Multiseuse Path	Orange square	Orange line	Thick orange line
Other Features		Thin grey line	Thick grey line
		Studied Roads	



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



Sheet 4 of 4

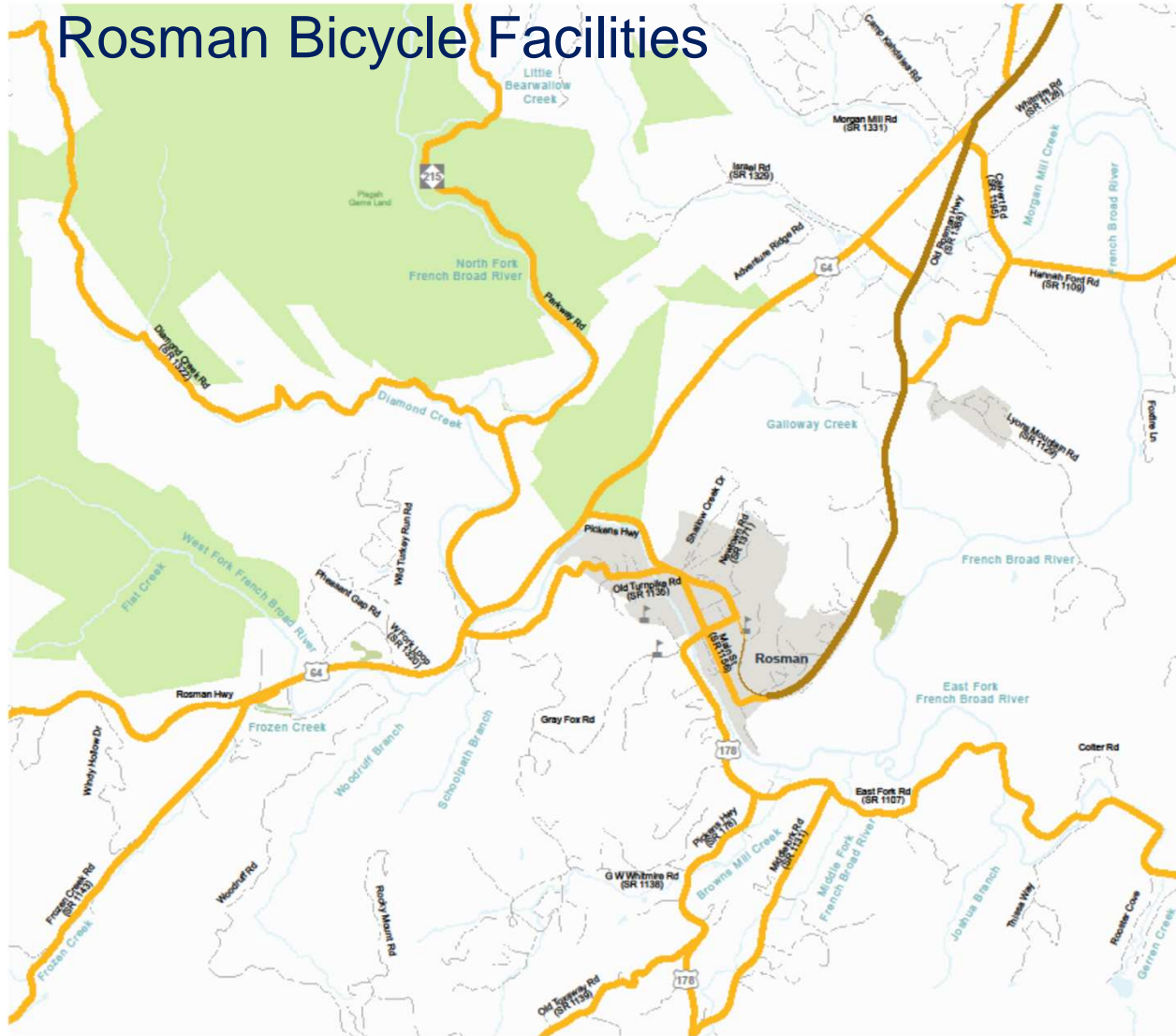
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DRAFT WORKING MAP
 Plan Date: May 15, 2020

Rosman Bicycle Facilities



BICYCLE / PEDESTRIAN RECOMMENDATIONS

Proposals that address identified needs through 2045



TRANSLYVANIA COUNTY

Comprehensive Transportation Plan

Bicycle and Pedestrian Features

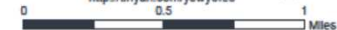
	Proposal ID #	Existing	Proposed
Bicycle	Orange square	Orange line	Thick orange line
Pedestrian	Purple square	Purple line	Thick purple line
Bicycle and Pedestrian	Green square	Green line	Thick green line
Bicycle and Pedestrian Bridge	Circle with dot	Circle	Circle with dot
Multiuse Path	Brown square	Brown line	Thick brown line

Other Features

Studied Roads



Full report at:
<http://tinyurl.com/y5wy3te3>



Sheet 4 of 4

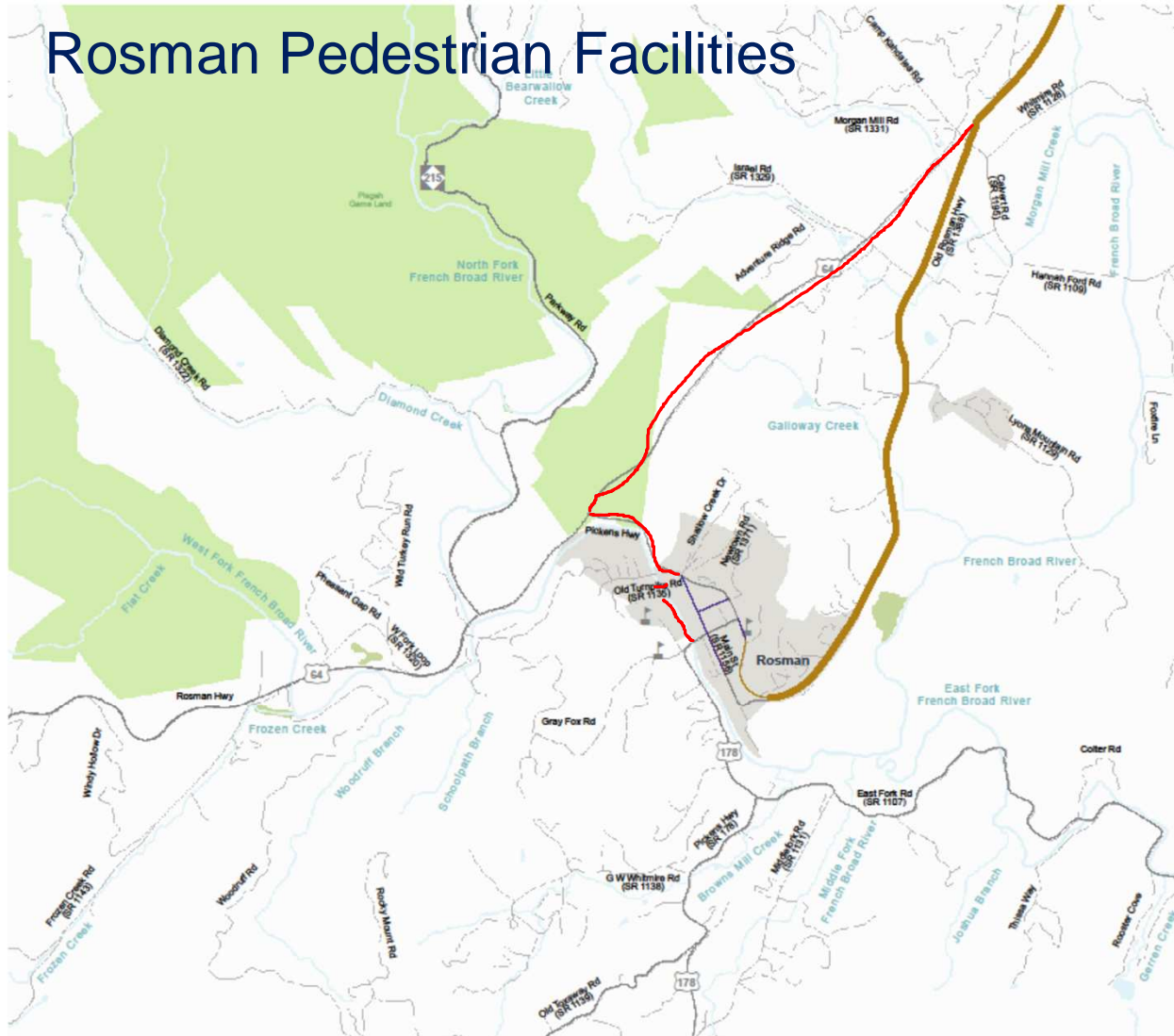
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DRAFT WORKING MAP
Plan Date: May 15, 2020

Rosman Pedestrian Facilities



BICYCLE / PEDESTRIAN RECOMMENDATIONS

Proposals that address identified needs through 2045



TRANSLYVANIA COUNTY

Comprehensive Transportation Plan

Bicycle and Pedestrian Features

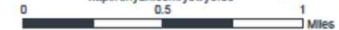
	Proposal ID #	Existing	Proposed
Bicycle	101	102	103
Pedestrian	201	202	203
Bicycle and Pedestrian	301	302	303
Bicycle and Pedestrian Bridge	401	402	403
Multiseuse Path	501	502	503

Other Features

Studied Roads



Full report at:
<http://tinyurl.com/ySwy3fe3>



Sheet 4 of 4

Base map date: March 18, 2018

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DRAFT WORKING MAP
 Plan Date: May 15, 2020

Future Meetings

- June 29th.
- I will let you know by June 12th the time and link. Does this time work for everyone
- Next meeting will be a ZOOM meeting



Contact info for your team

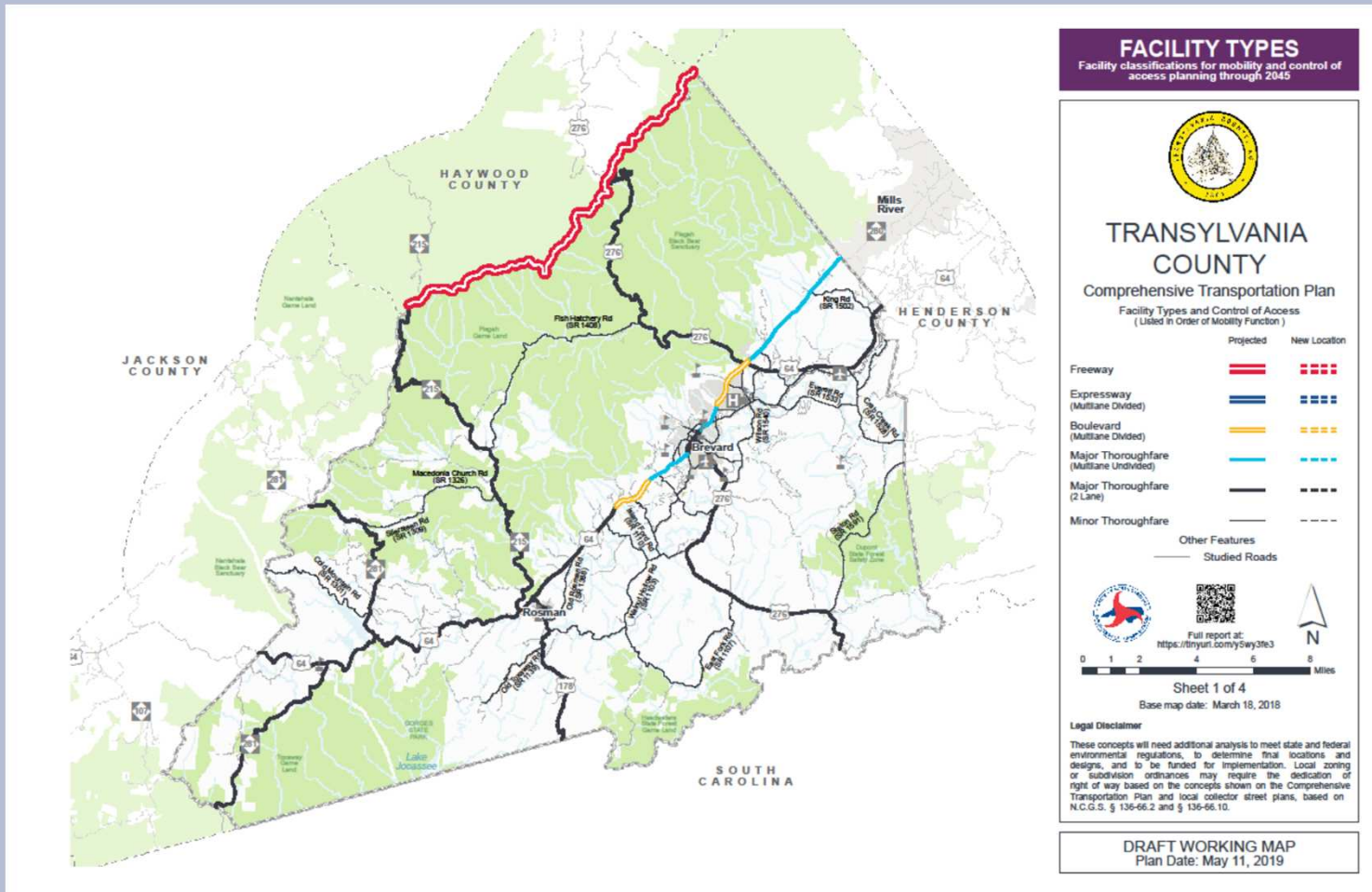
- Vicki Eastland, Land of Sky RPO, vicki.eastland@landofsky.org 828-251-6622
- Daniel Sellers, NCDOT TPD, dcsellers1@ncdot.gov 919-707-0978
- Steve Williams, NCDOT Division 14, sjwilliams@ncdot.gov 828-586-2141
- Troy Wilson, NCDOT Division 14, tswilson@ncdot.gov 828-586-2141
- Lonnie Watkins, NCDOT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



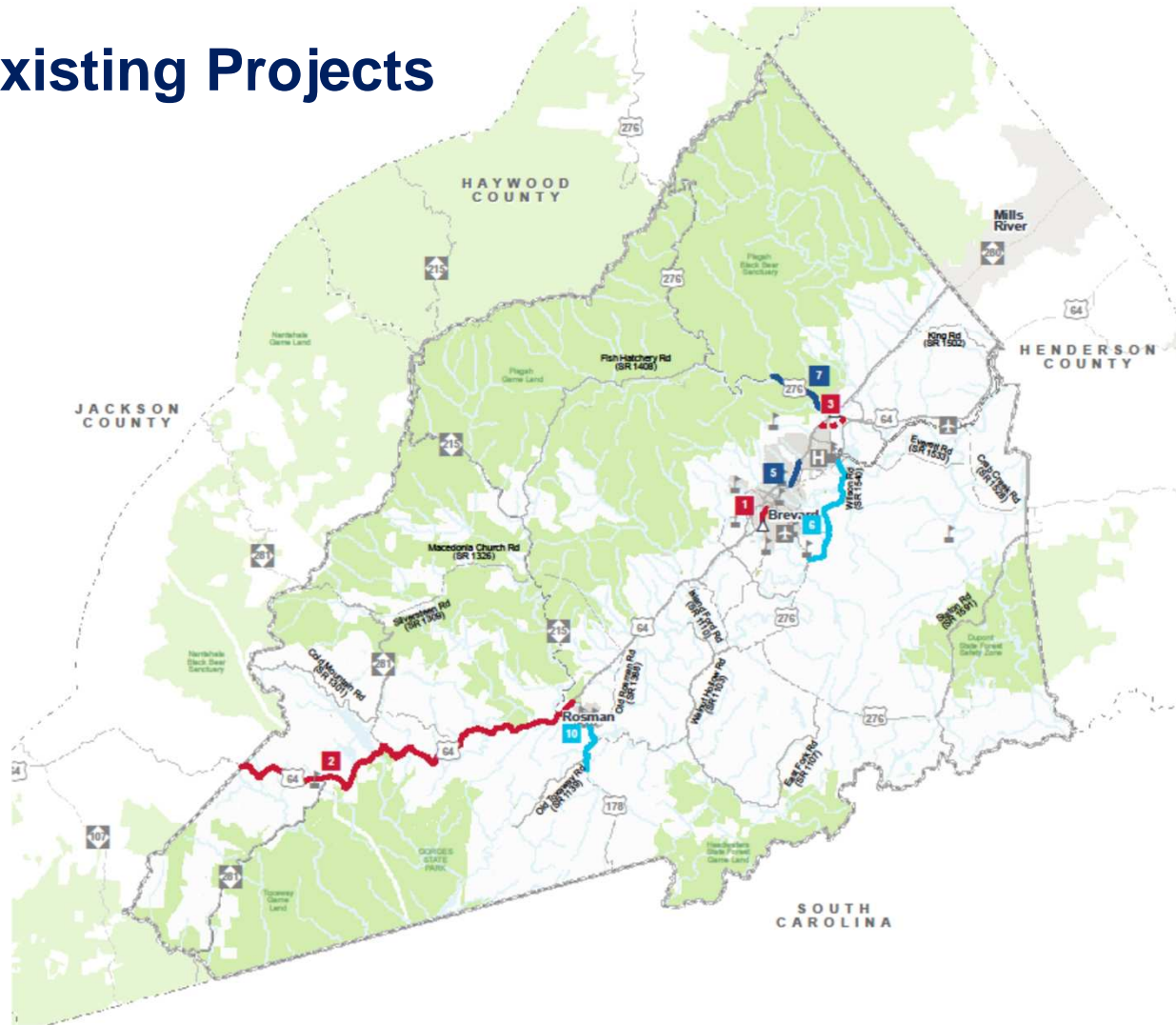
QUESTIONS?
COMMENTS?

Following slides are included
for reference

Functional Classification



Existing Projects



HIGHWAY RECOMMENDATIONS

Proposals that address identified needs through 2045



TRANSYLVANIA COUNTY

Comprehensive Transportation Plan

Highway Features

Proposal ID # Improve New Location

Congestion / Mobility (e.g., add lanes)		
Access Management / Operations (e.g., add median)		
Modernization (e.g., widen lanes, add turn lanes)		
Other (e.g., safety, economic development)		
Interchange		
Bridge / Overpass		
Intersection		

Other Features

Studied Roads



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



Sheet 2 of 4

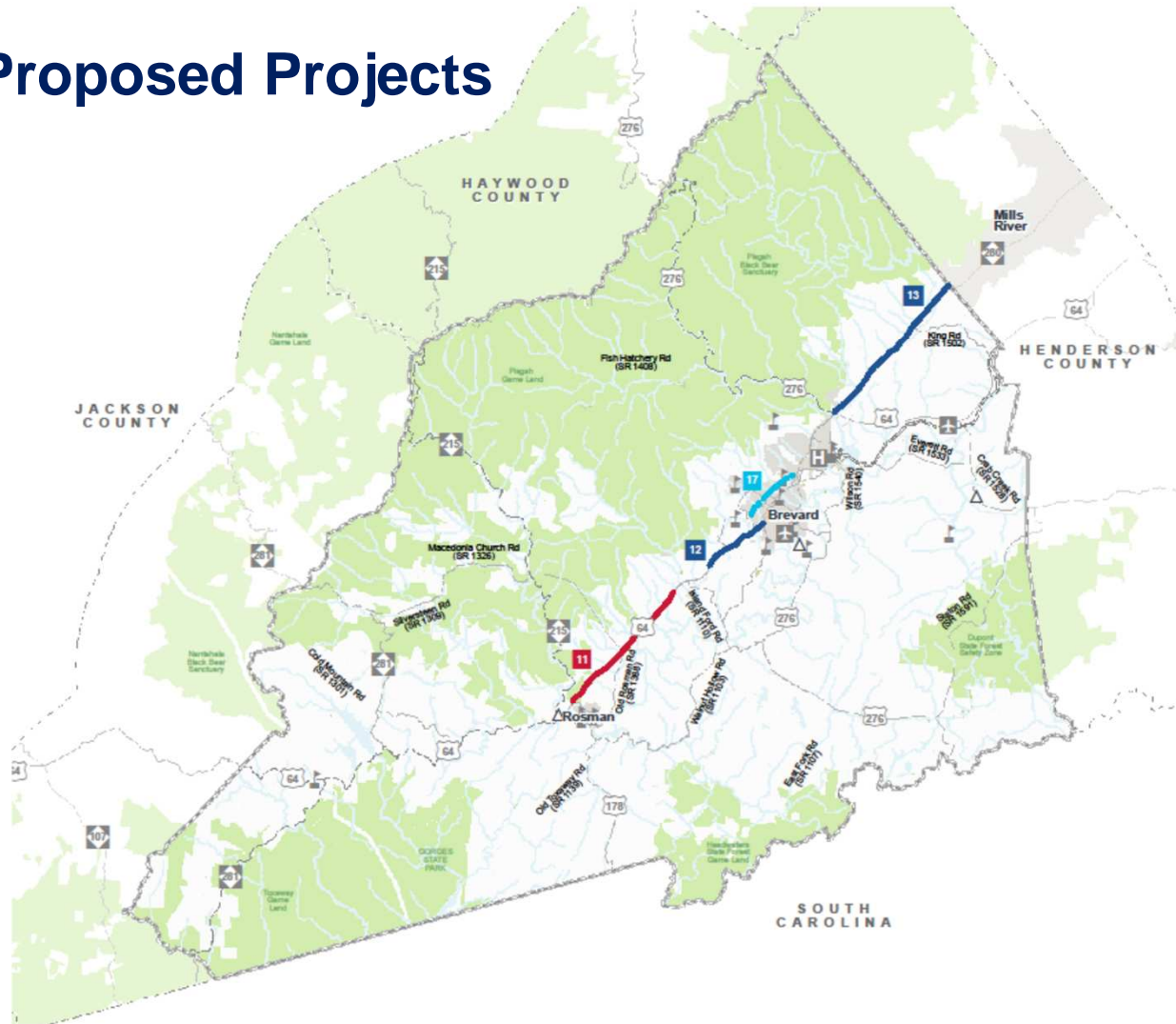
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DRAFT WORKING MAP
Plan Date: June 03, 2019

Proposed Projects



HIGHWAY RECOMMENDATIONS

Proposals that address identified needs through 2045



TRANSYLVANIA COUNTY

Comprehensive Transportation Plan

Highway Features

Proposal ID # Improve New Location

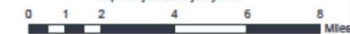
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Access Management / Operations (e.g., add median)		
Modernization (e.g., widen lanes, add turn lanes)		
Other (e.g., safety, economic development)		
Interchange		
Bridge / Overpass		
Intersection		

Other Features

Studied Roads



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



Sheet 2 of 4

Base map date: March 18, 2018

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DRAFT WORKING MAP
Plan Date: June 03, 2019

Modernization Table

FUNCTIONAL CLASSIFICATION	US & NC Routes (Minor Arterial or Collector)	Other Collectors	Routes that are not functionally Classified
Less than 2,000 vpd	10 feet	10 feet	9 feet
2,000 to 5,000 vpd	12 feet	11 feet	10 feet
Over 5,000 vpd	12 feet	12 feet	--

Bridges

- Structurally Deficient - in relatively poor condition or has insufficient load-carrying capacity. The insufficient load capacity could be due to the original design or to deterioration.
- Functionally Obsolete - it is narrow, has inadequate under-clearances, has insufficient load-carrying capacity, is poorly aligned with the roadway, and can no longer adequately service today's traffic
- A bridge must be classified as deficient before it is eligible for federal bridge replacement or rehabilitation funds.

Bridge Data

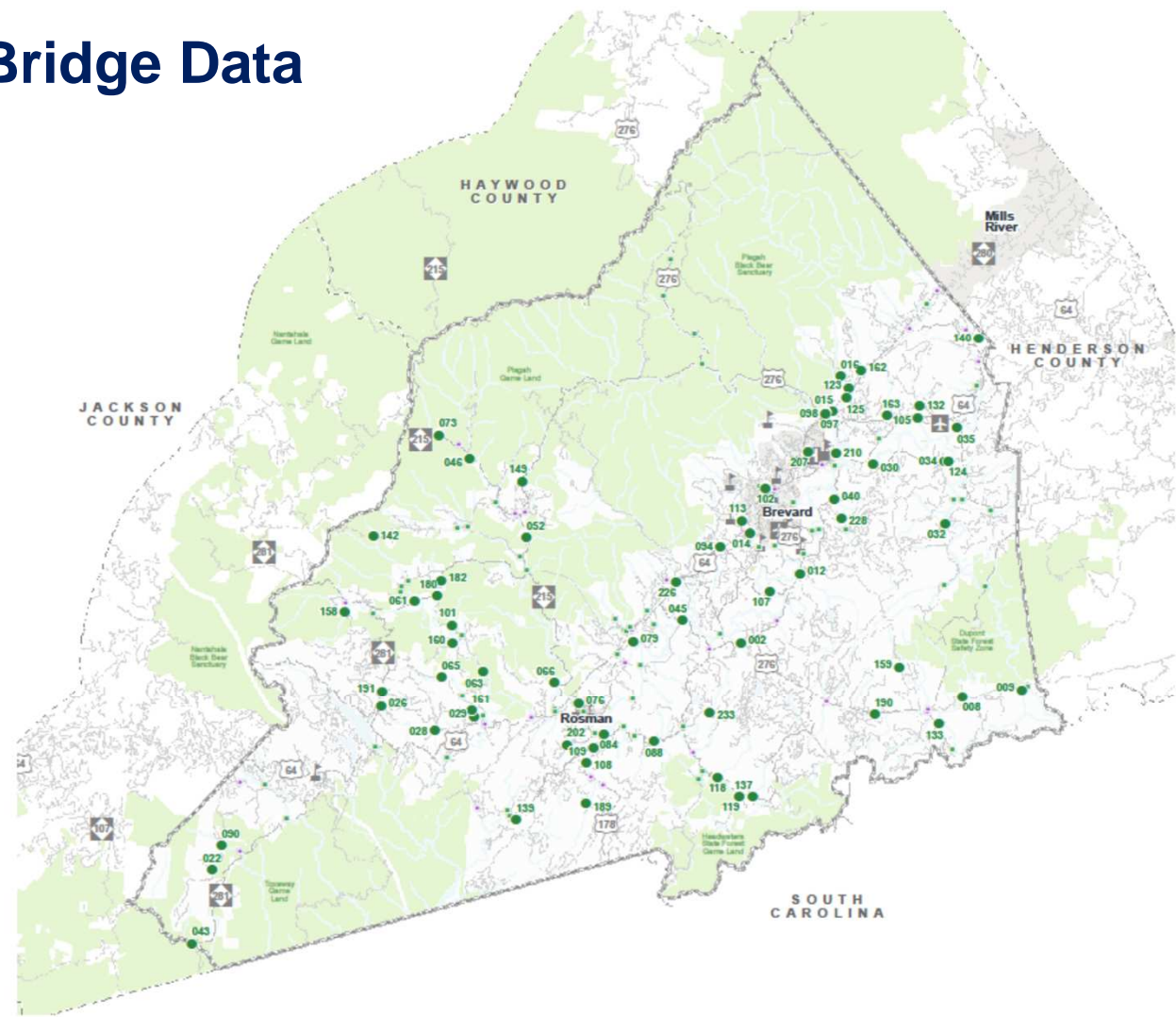


Figure 6
BRIDGE DEFICIENCIES



TRANSYLVANIA COUNTY

CTP Analysis and Information

- Bridge Features**
- Deficient Bridge
 - Bridge
 - Other Structure
- Other Features**
- Study Road



Sheet 3 of 4

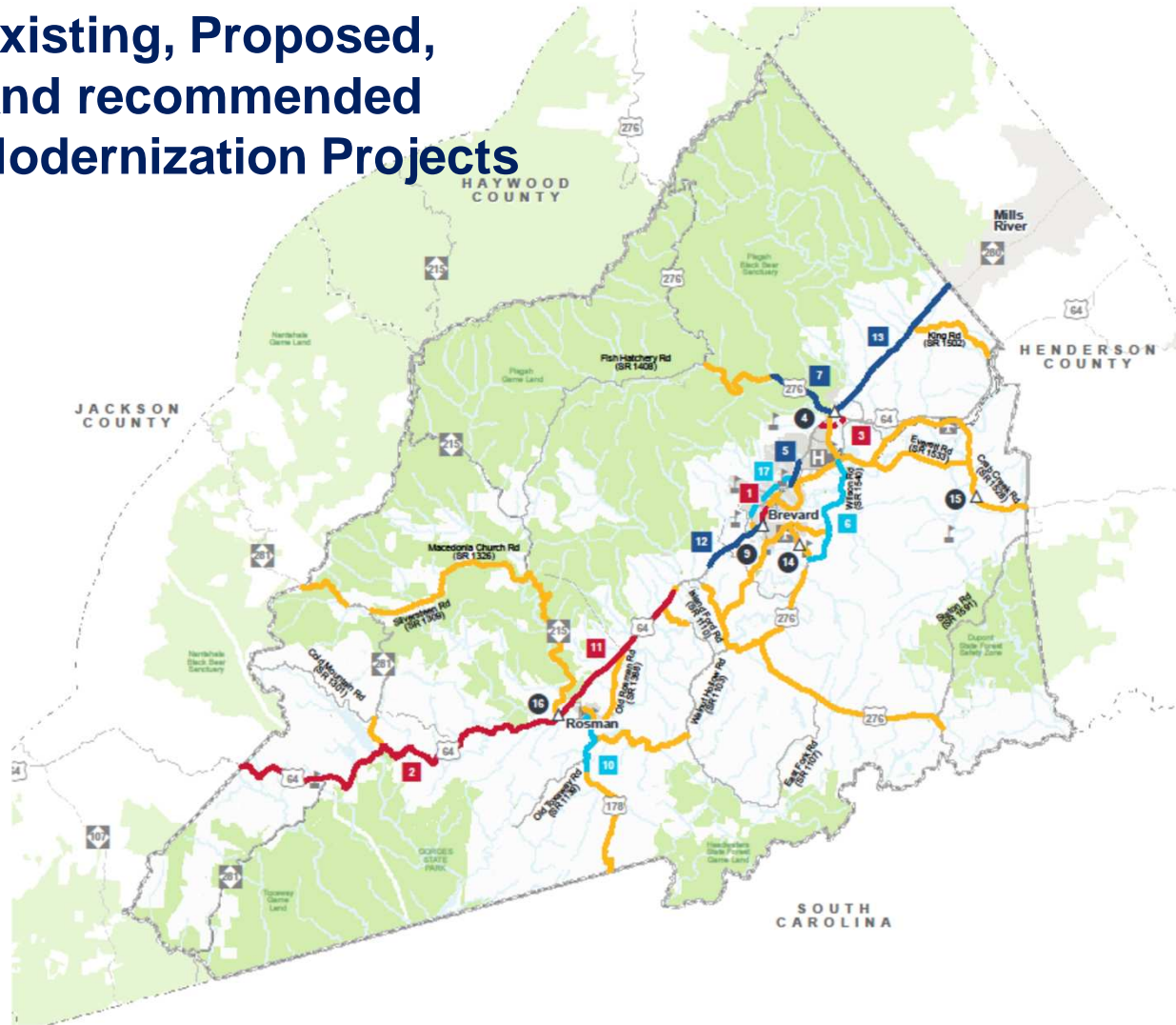
Base map date: March 18, 2018

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DRAFT WORKING MAP
Plan Date: May 11, 2019

Existing, Proposed, And recommended Modernization Projects



HIGHWAY RECOMMENDATIONS

Proposals that address identified needs through 2045



TRANSYLVANIA COUNTY

Comprehensive Transportation Plan

Highway Features

	Proposal ID #	Improve	New Location
Congestion / Mobility (e.g., add lanes)	1	Red dashed line	Red dotted line
Access Management / Operations (e.g., add median)	4	Blue dashed line	Blue dotted line
Modernization (e.g., widen lanes, add turn lanes)	5	Orange dashed line	Orange dotted line
Other (e.g., safety, economic development)	17	Cyan dashed line	Cyan dotted line
Interchange	10	Square symbol	Square symbol
Bridge / Overpass	13	Circle symbol	Circle symbol
Intersection	14	Circle symbol	Triangle symbol

Other Features

Studied Roads



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



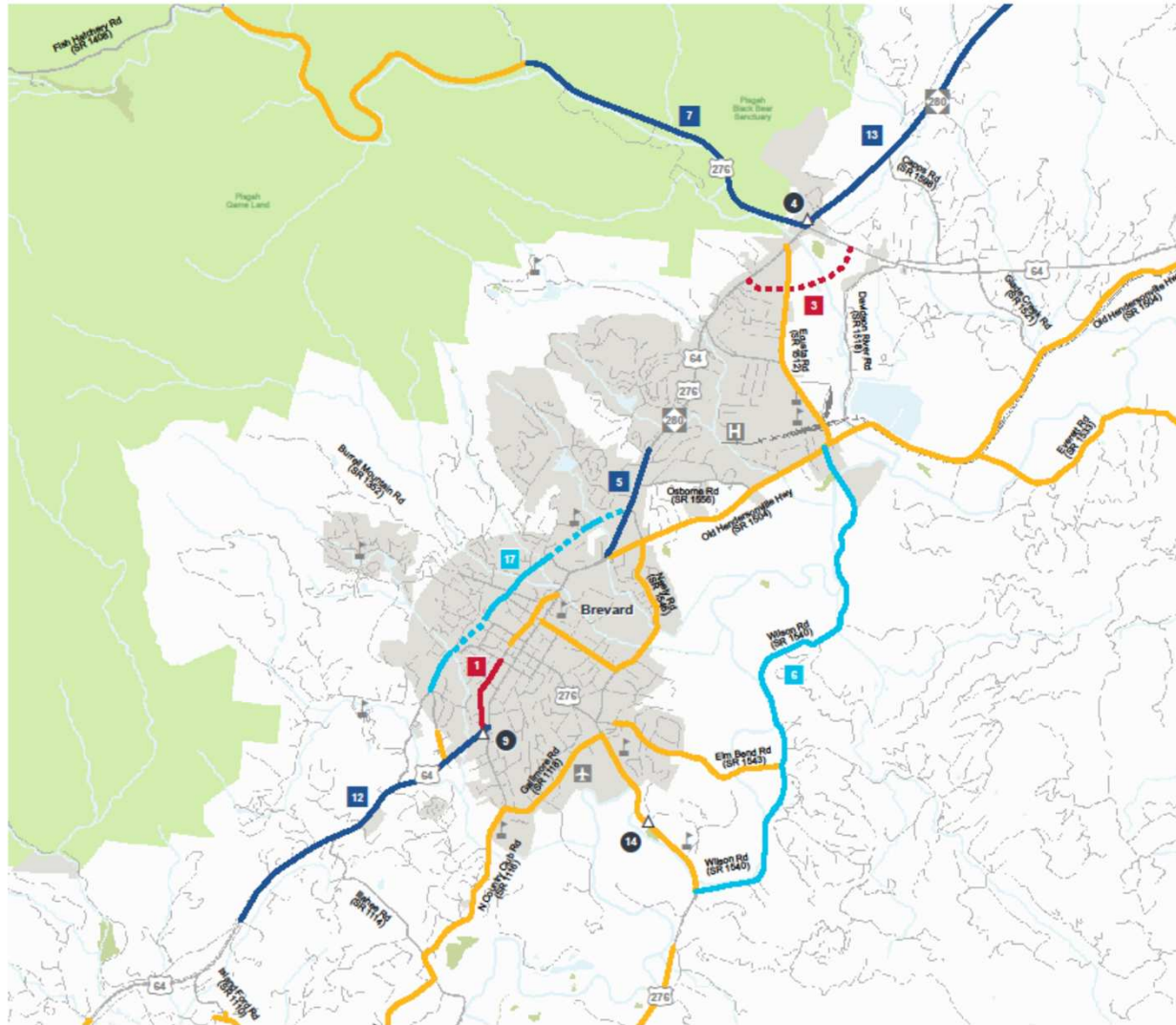
Sheet 2 of 4

Base map date: March 18, 2018

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DRAFT WORKING MAP
Plan Date: June 04, 2019



HIGHWAY RECOMMENDATIONS

Proposals that address identified needs through 2045



TRANSYLVANIA COUNTY

Comprehensive Transportation Plan

Highway Features

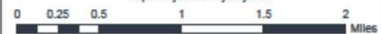
	Proposal ID #	Improve	New Location
Congestion / Mobility (e.g., add lanes)	1	—■—	- - - -
Access Management / Operations (e.g., add median)	2	—■—	- - - -
Modernization (e.g., widen lanes, add turn lanes)	3	—■—	- - - -
Other (e.g., safety, economic development)	4	—■—	- - - -
Interchange	5	□	■
Bridge / Overpass	6	○	●
Intersection	7	△	▲

Other Features

— Studied Roads



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



Sheet 2 of 4

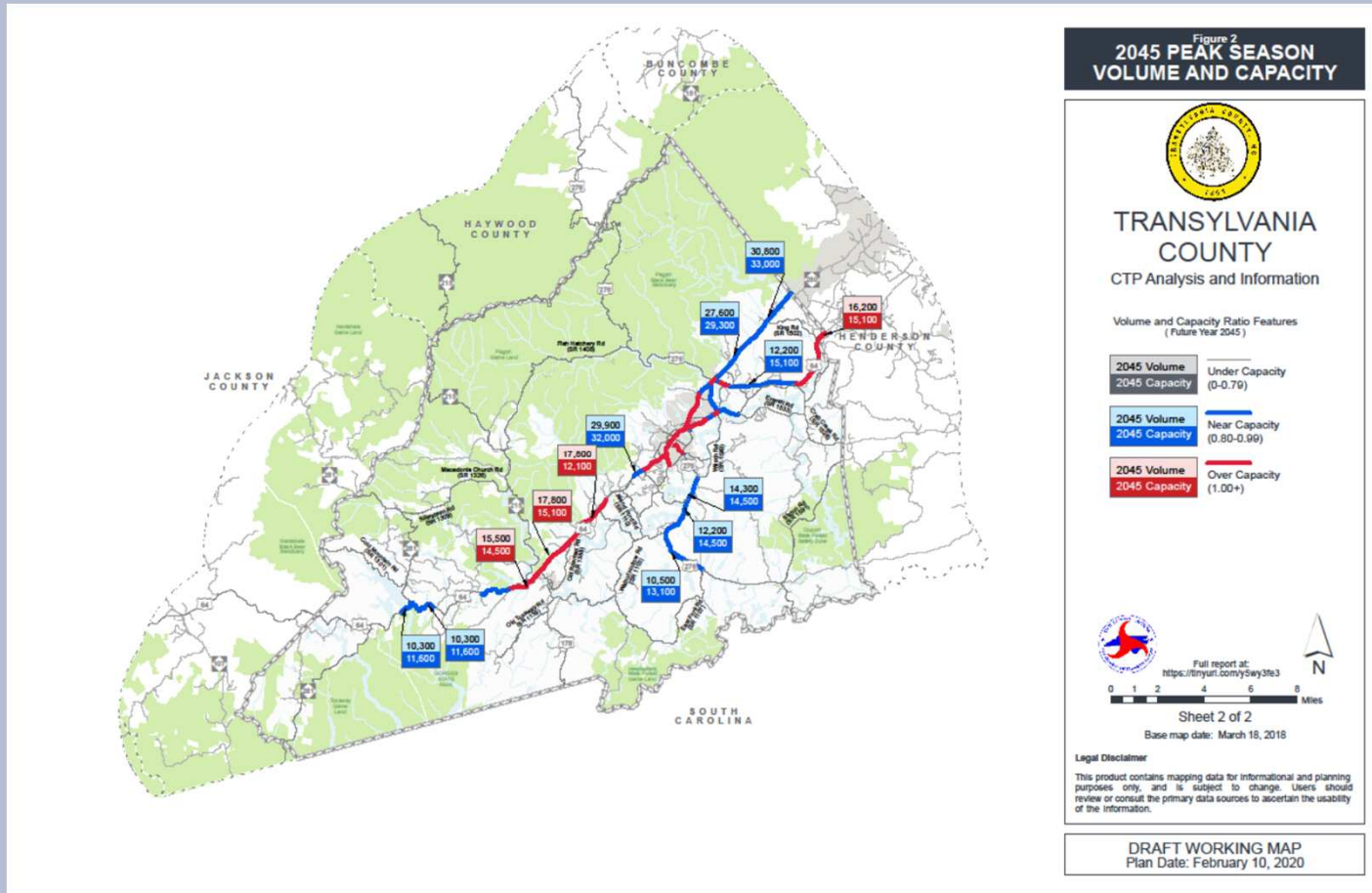
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DRAFT WORKING MAP
Plan Date: June 04, 2019

Traffic Count Volume to Capacity Wrap-up



Daniel Seller, PE, NCDOT

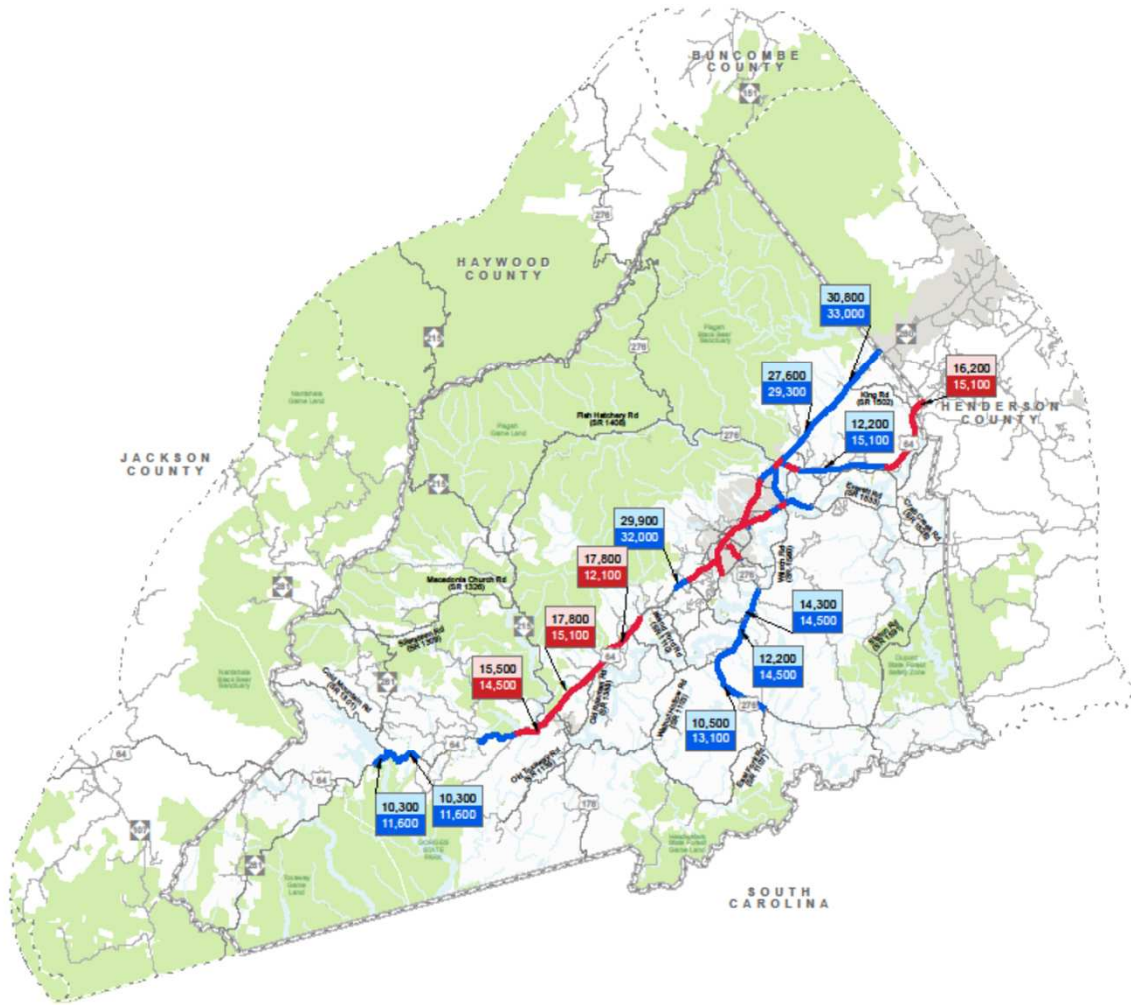


Figure 2
**2045 PEAK SEASON
 VOLUME AND CAPACITY**



**TRANSLYVANIA
 COUNTY**
 CTP Analysis and Information

Volume and Capacity Ratio Features
 (Future Year 2045)

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



Full report at:
<http://tinyurl.com/y5wy3te3>



Sheet 2 of 2

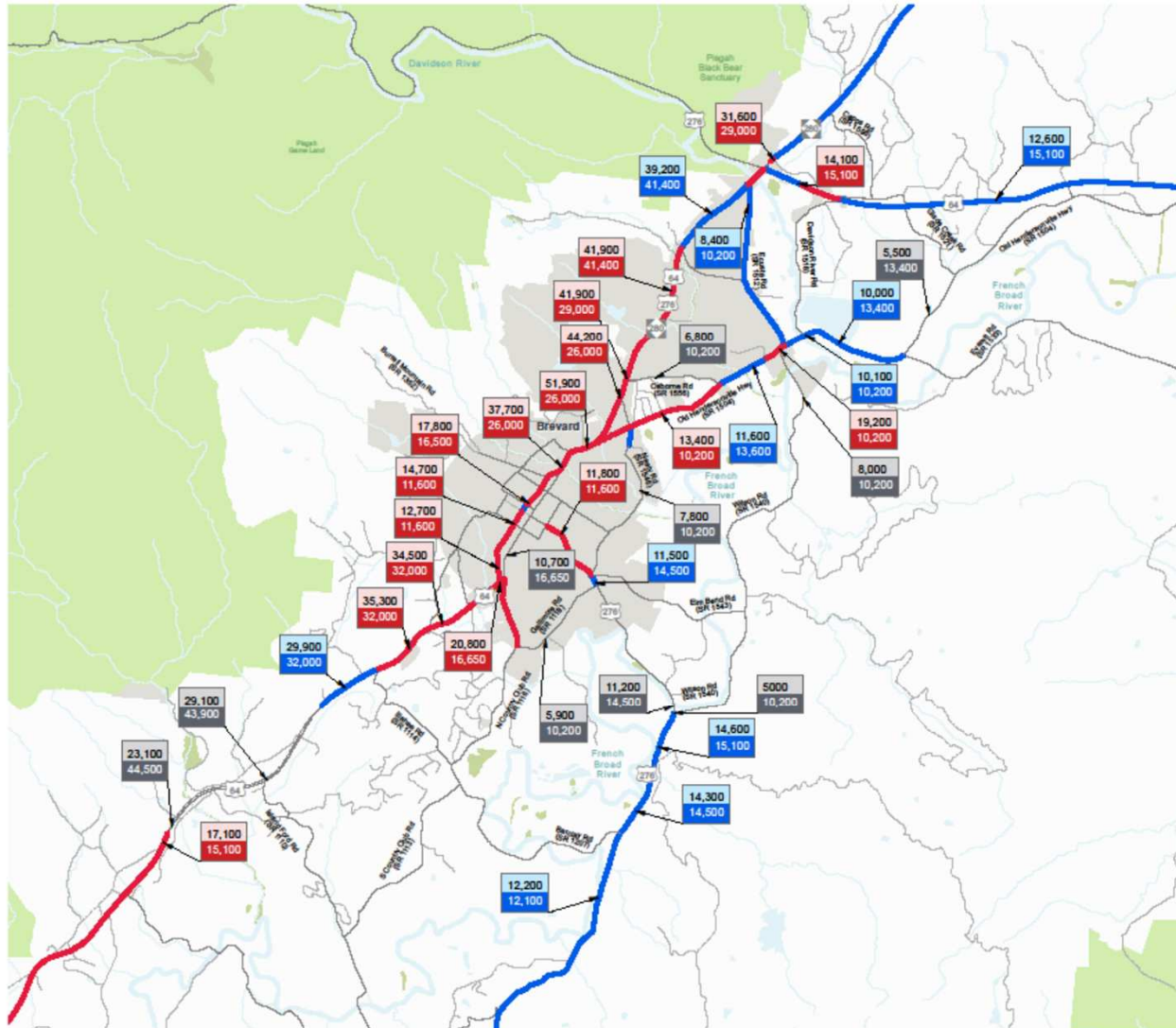
Base map date: March 18, 2018

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DRAFT WORKING MAP
 Plan Date: February 10, 2020

Figure 2
**2045 PEAK SEASON
 VOLUME AND CAPACITY**



**TRANSYLVANIA
 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://tinyurl.com/y5wy3te3>



Sheet 2 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: February 10, 2020

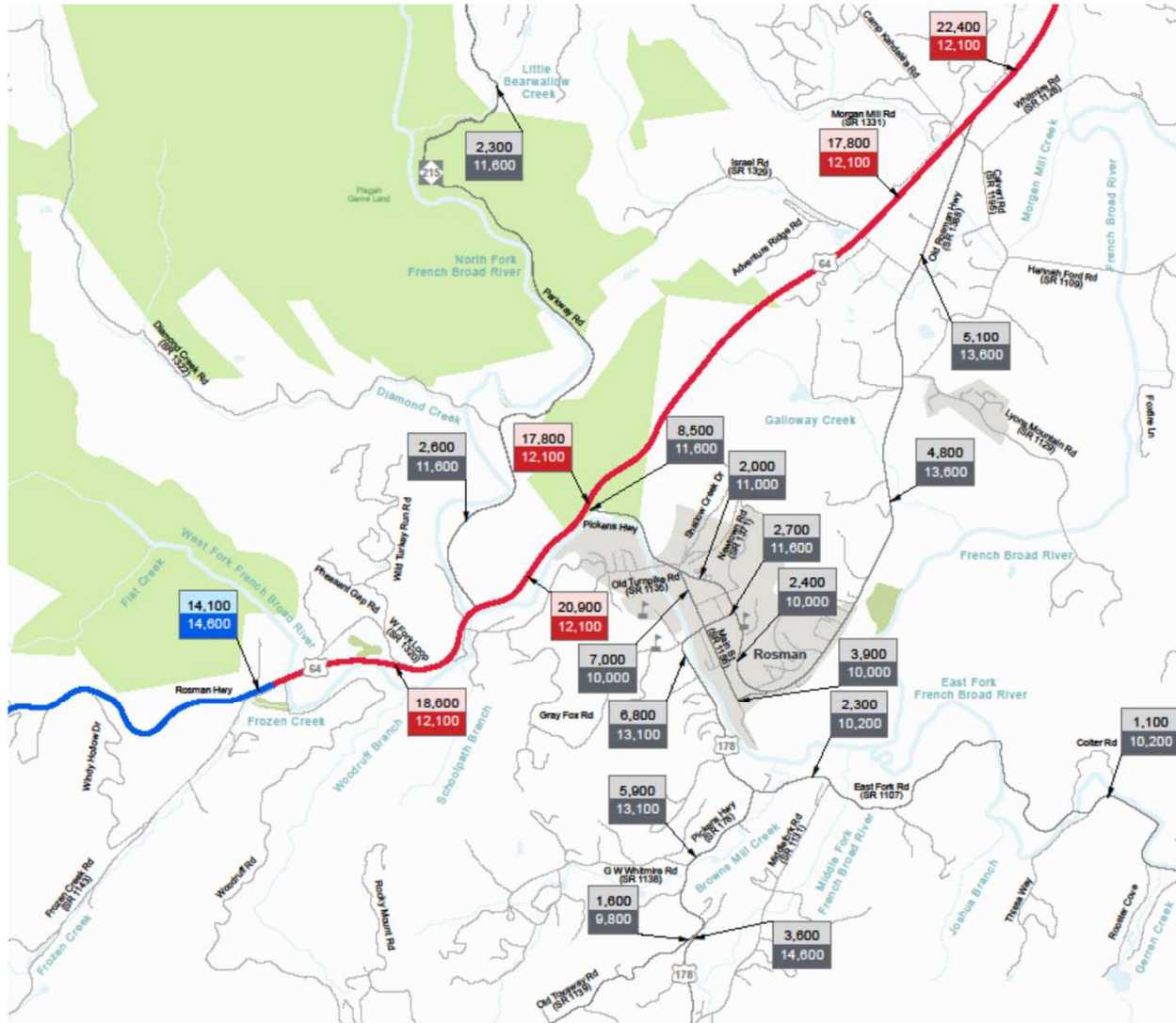


Figure 2
**2045 PEAK SEASON
 VOLUME AND CAPACITY**



**TRANSLYVANIA
 COUNTY**
 CTP Analysis and Information

Volume and Capacity Ratio Features
 (Future Year 2045)

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



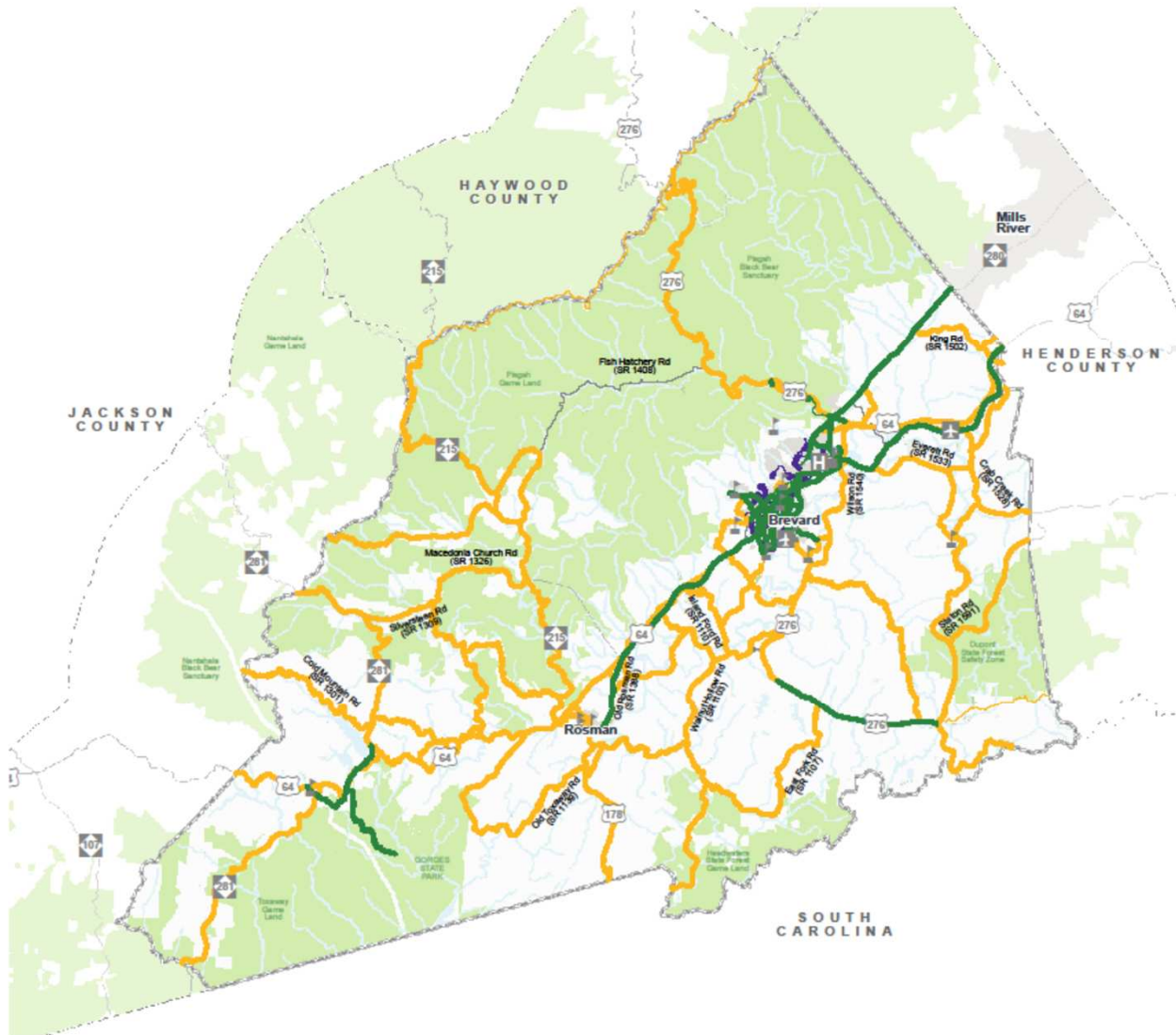
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0 0.25 0.5 0.75 1 Miles

Sheet 2 of 2
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BICYCLE / PEDESTRIAN RECOMMENDATIONS

Proposals that address identified needs through 2045



TRANSYLVANIA COUNTY

Comprehensive Transportation Plan

Bicycle and Pedestrian Features

	Proposal ID #	Existing	Proposed
Bicycle	□	—	—
Pedestrian	□	—	—
Bicycle and Pedestrian	□	—	—
Bicycle and Pedestrian Bridge	○	○	○
Other Features			
	— Studied Roads		



Full report at:
<http://tinyurl.com/y5wy3te3>



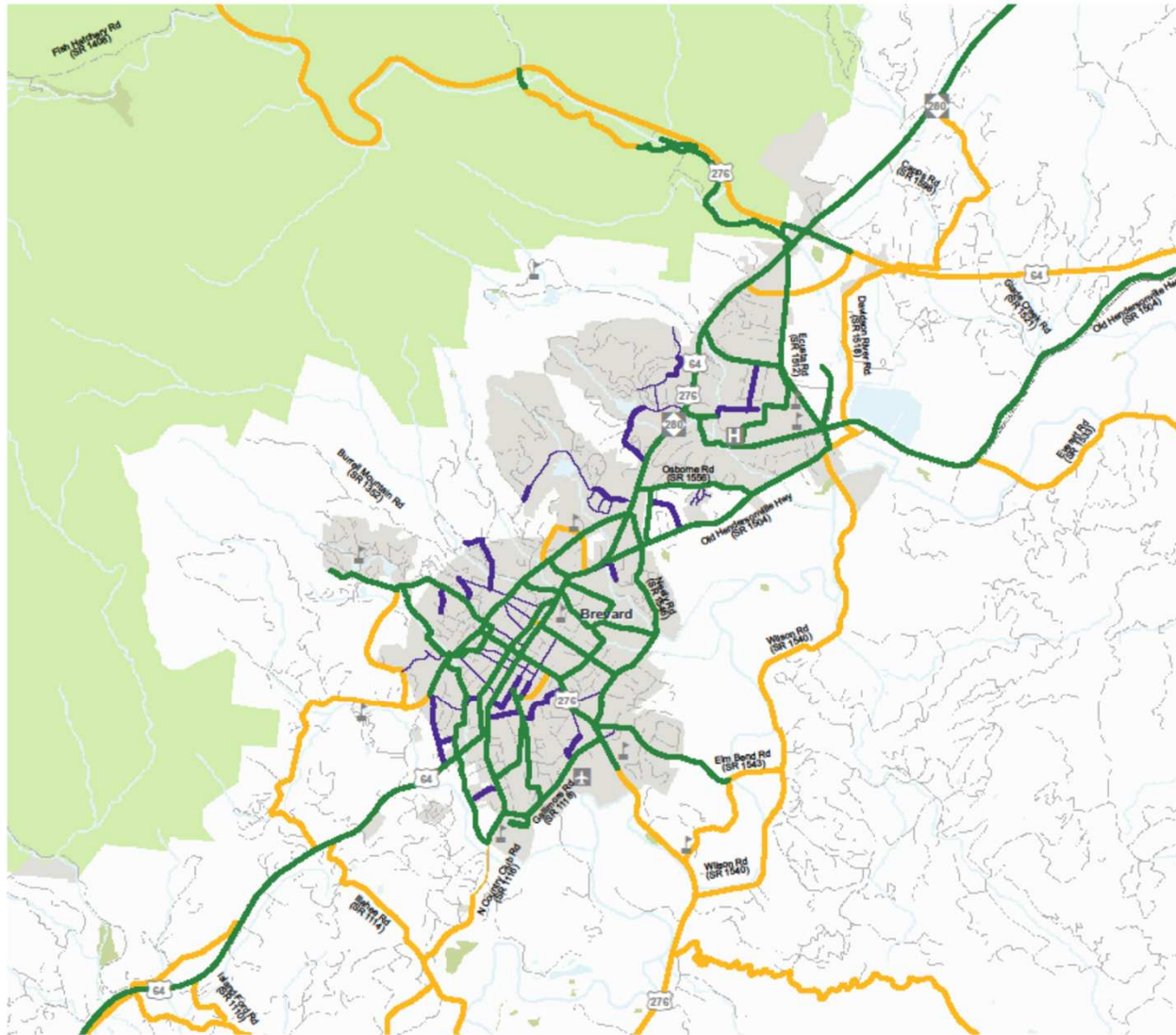
Sheet 4 of 4

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: February 09, 2020



BICYCLE / PEDESTRIAN RECOMMENDATIONS

Proposals that address identified needs through 2045



TRANSYLVANIA COUNTY

Comprehensive Transportation Plan

Bicycle and Pedestrian Features

	Proposal ID #	Existing	Proposed
Bicycle	□	—	—
Pedestrian	□	—	—
Bicycle and Pedestrian	□	—	—
Bicycle and Pedestrian Bridge	○	○	○
Other Features			
	— Studied Roads		



Full report at:
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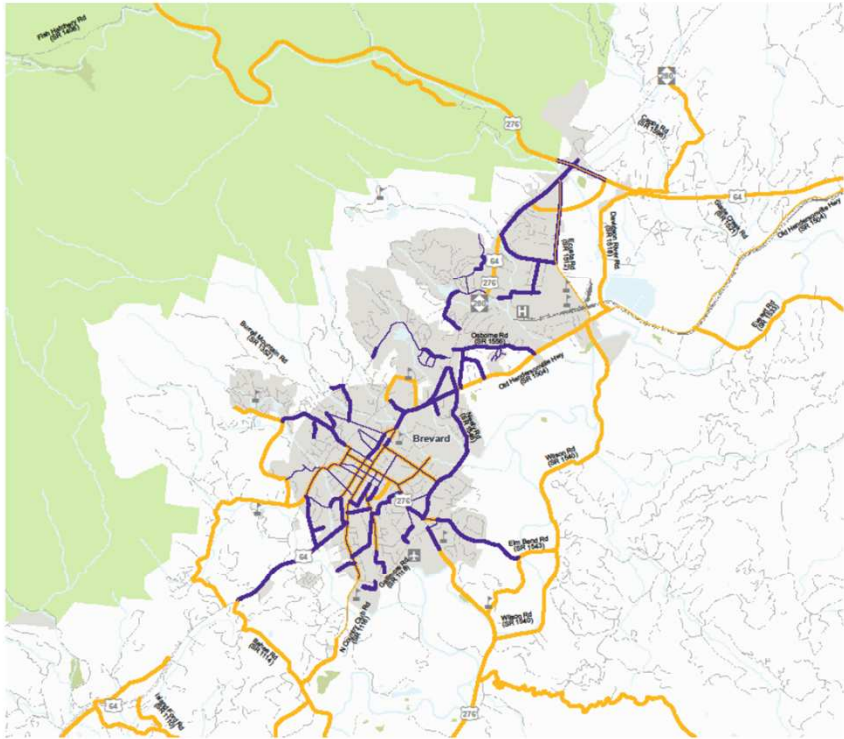
Sheet 4 of 4

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DRAFT WORKING MAP
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BICYCLE / PEDESTRIAN RECOMMENDATIONS
Proposals that address identified needs through 2045



TRANSYLVANIA COUNTY
Comprehensive Transportation Plan

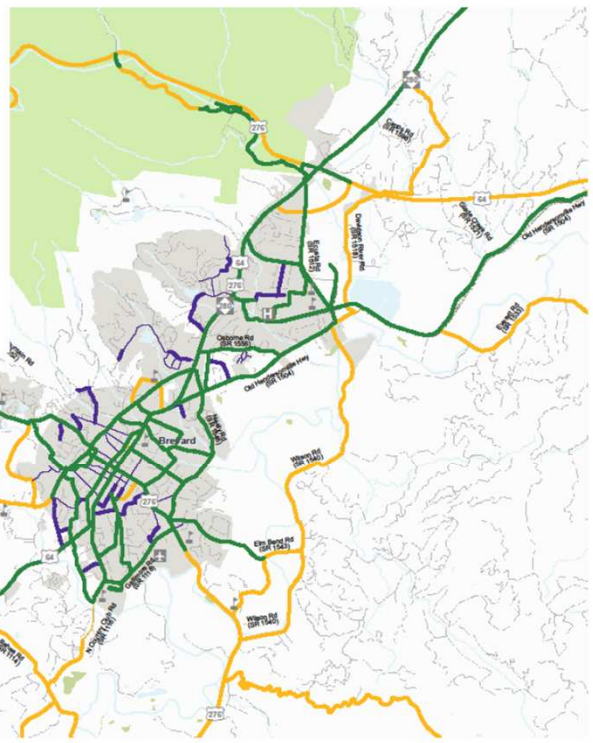
- Bicycle and Pedestrian Features**
- | | Proposal ID # | Existing | Proposed |
|-------------------------------|---------------|----------|----------|
| Bicycle | □ | — | — |
| Pedestrian | □ | — | — |
| Bicycle and Pedestrian | □ | — | — |
| Bicycle and Pedestrian Bridge | ○ | ○ | ○ |
- Other Features**
- Studied Roads

Full report at: <http://transyart.com/y5wy363>

Sheet 4 of 4
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DRAFT WORKING MAP
Plan Date: February 09, 2020



BICYCLE / PEDESTRIAN RECOMMENDATIONS
Proposals that address identified needs through 2045



TRANSYLVANIA COUNTY
Comprehensive Transportation Plan

- Bicycle and Pedestrian Features**
- | | Proposal ID # | Existing | Proposed |
|-------------------------------|---------------|----------|----------|
| Bicycle | □ | — | — |
| Pedestrian | □ | — | — |
| Bicycle and Pedestrian | □ | — | — |
| Bicycle and Pedestrian Bridge | ○ | ○ | ○ |
- Other Features**
- Studied Roads

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Sheet 4 of 4
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