

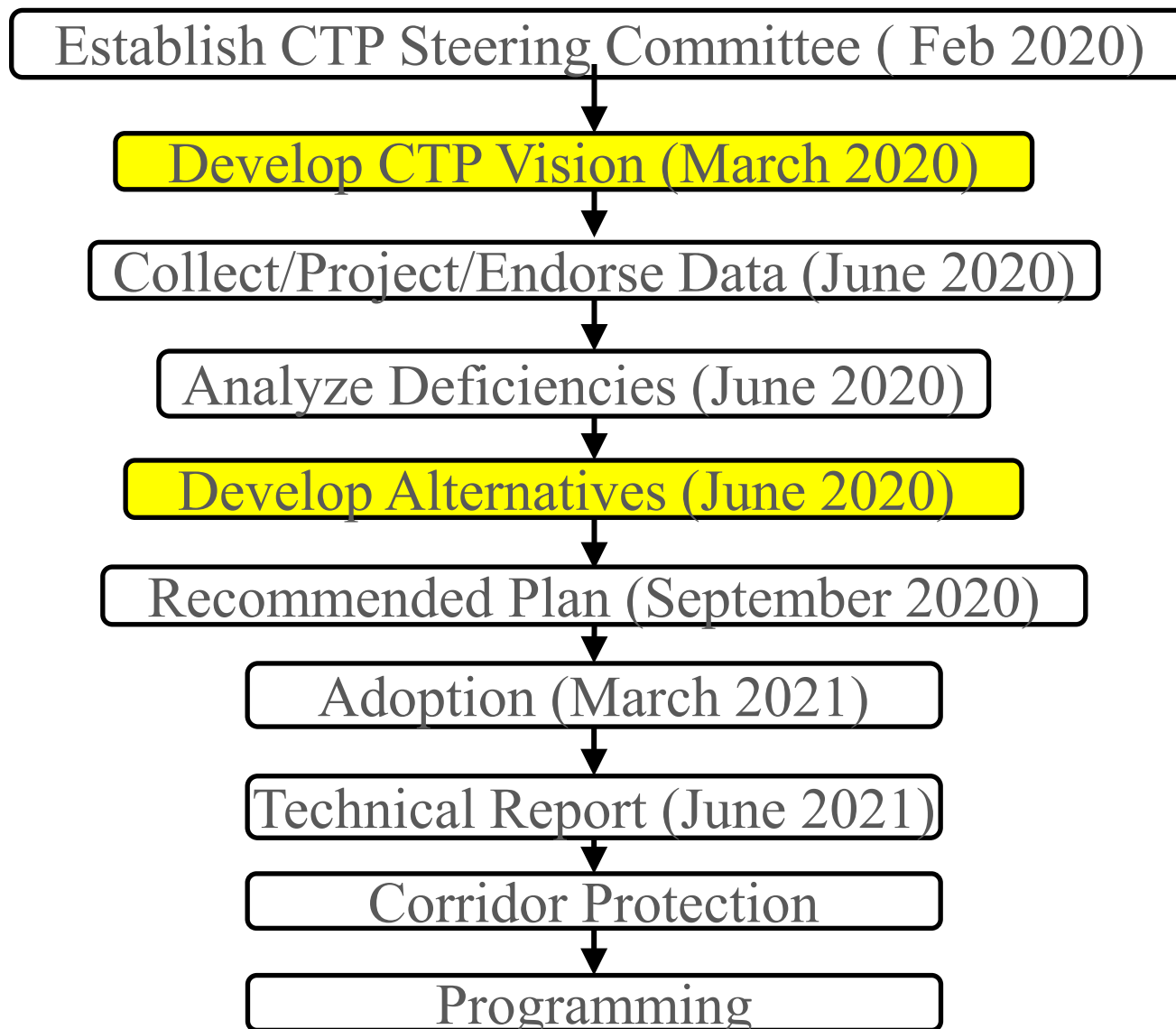
# Cumberland County/ FAMPO Comprehensive Transportation Plan

North Carolina  
DEPARTMENT OF TRANSPORTATION

Hemal Shah  
Chris Connolly

July 2020

# CTP Schedule



## Cumberland County/ FAMPO CTP Vision Statement

### CTP Vision, Goals, and Objectives

***Vision:*** To follow the Comprehensive Transportation Planning process in order to cooperatively develop a long-range multi-modal transportation plan that provides a safe and efficient transportation system which maximizes economic vitality and mobility throughout the region without sacrificing usability and environmental concerns.

**Goal:** Focusing growth around established municipalities, infrastructure, and strategic nodes

**Goal:** Encourage safe, multi-modal transportation options with adequate connectivity

**Goal:** Protecting, preserving, and enhancing environmental features and open space opportunities

**Goal:** Recognizing the strategic importance of military installations within and adjacent to the community

# Public Involvement Plan

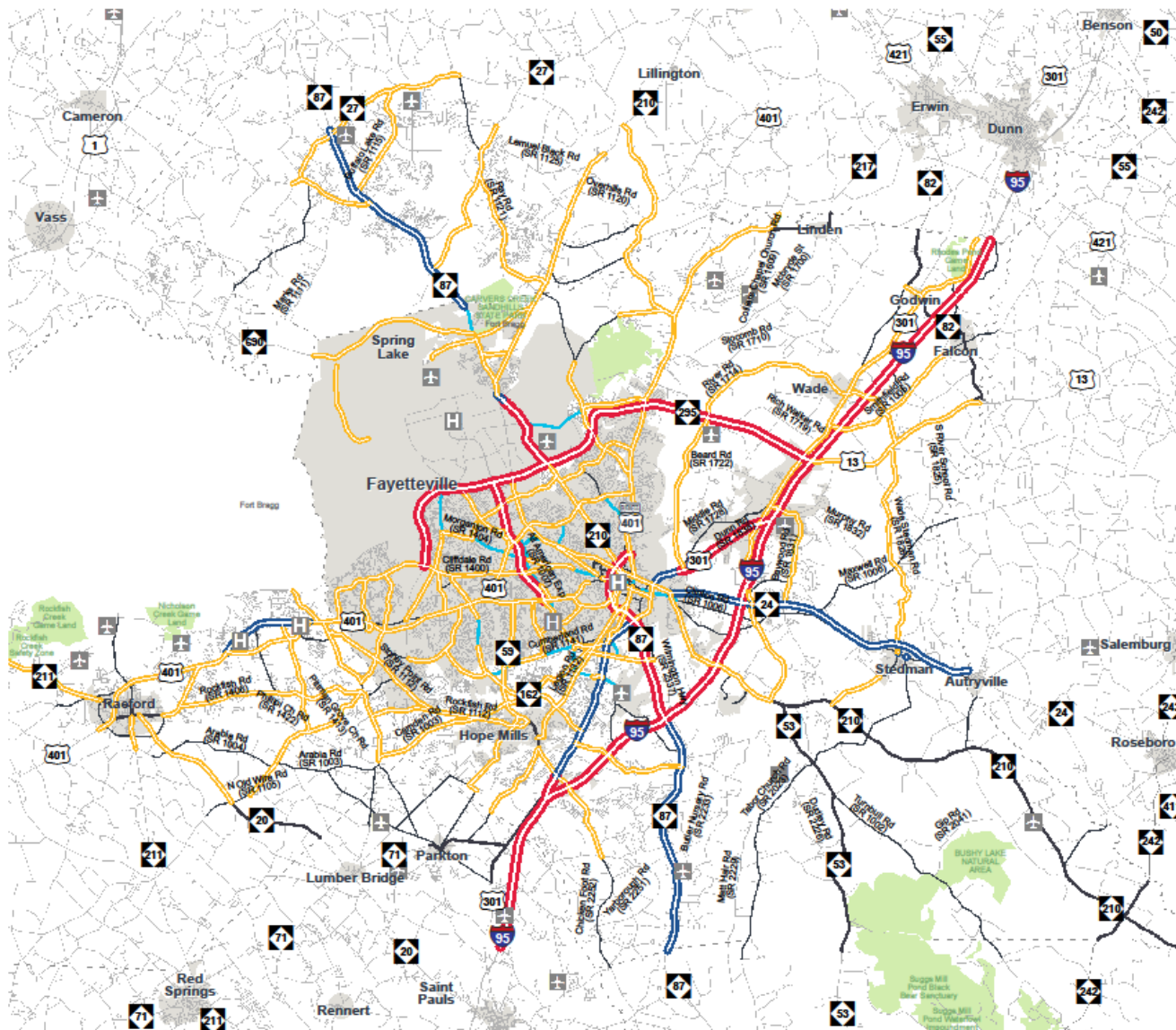
- Goals and Objective Survey Development and Distribution

<https://38615702-draft.metroquest.com/>

- Public Meetings/ Workshops


## NORTH CAROLINA PLANNING FACILITY TYPES COMPARISON CHART

| Class<br>Criteria            | Freeways   | Expressways<br>(Multilane Divided)  | Boulevards<br>(Multilane Divided)   | Multilane Major<br>(Undivided)  | Major<br>(2 Lanes)   | Minor<br>Thoroughfares   |
|------------------------------|--|---|---|---|--|--|
| Functional Purpose           | High Mobility, Low Access  | High Mobility, Low to Moderate Access   | Moderate Mobility, Low to Moderate Access   | Moderate Mobility, Low to Moderate Access   | Moderate to Low Mobility, Low/Moderate to High Access                                    | Moderate to Low Mobility, Low/Moderate to High Access                              |
| AASHTO Design Classification | Interstate or Freeway  | Arterial  | Arterial or Collector   | Arterial or Collector   | Collector or Local   | Collector or Local   |
| Posted Speed Limit           | 55 mph or greater  | 45 mph to 60 mph  | 30 mph to 55 mph  | 30 mph to 55 mph  | 25 mph to 55 mph   | 25 mph to 55 mph   |
| Control of Access            | Full   | Limited   | Limited or Partial  | Partial   | None   | None   |
| Traffic Signals              | Not Allowed  | <del>Limited</del> or Not Allowed   | Limited   | Allowed   | Allowed  | Allowed  |
| Driveways                    | Not Allowed  | <p>Two Options:</p> <ul style="list-style-type: none"> <li>○ <u>Limited Control of Access</u> - Not Allowed</li> <li>○ <u>Partial Control of Access</u> - One Driveway Connection per Parcel; Consolidate and/or Share Driveways and Limit Access to Connecting Streets or Service Roads; Restrict to Right-in/Right-out</li> </ul> | <p>Two Options:</p> <ul style="list-style-type: none"> <li>○ <u>Limited Control of Access</u> - Not Allowed</li> <li>○ <u>Partial Control of Access</u> - One Driveway Connection per Parcel; Consolidate and/or Share Driveways and Limit Access to Connecting Streets or Service Roads; Restrict to Right-in/Right-out</li> </ul> | <p>Two Options:</p> <ul style="list-style-type: none"> <li>○ <u>Limited Control of Access</u> - Not Allowed</li> <li>○ <u>Partial Control of Access</u> - One Driveway Connection per Parcel; Consolidate and/or Share Driveways and Limit Access to Connecting Streets or Service Roads; Restrict to Right-in/Right-out</li> </ul> | <u>Allowed with Full Movements</u> ; Consolidate or Share Connections, if possible       | <u>Allowed with Full Movements</u> ; Consolidate or Share Connections, if possible |
| Cross-Section                | Minimum 4 Lanes with a Median  | Minimum 4 Lanes with a Median   | Minimum 4 Lanes with a Median   | Minimum 4 Lanes; No Median  | Minimum 2 Lanes; With or without Median; Includes Facilities with Two Way Left Turn Lane | Minimum 2 Lanes; No Median; Includes Facilities with Two Way Left Turn Lane        |
| Connections                  | Provided only at Interchanges; All Cross Streets are Grade-Separated | Provided only at Interchanges for Major Cross Streets and At-Grade Intersections for Minor Cross Streets;   | At-Grade Intersections for most Major and Minor Cross Streets (Occasional Interchange at Major Crossing);   | At-Grade Intersections for most Major and Minor Cross Streets (Occasional Interchange at Major Crossing);   | Primarily At-Grade Intersections   | Primarily At-Grade Intersections   |



### FACILITY TYPES

Facility classifications for mobility and control of access planning through 2045



## FAMPO\_CUMBERLAND


### Comprehensive Transportation Plan

Facility Types and Control of Access  
(Listed in Order of Mobility Function)


|   | Projected | New Location |
|---|-----------|--------------|
| Freeway                                     |           |              |
| Expressway<br>(Multilane Divided)           |           |              |
| Boulevard<br>(Multilane Divided)            |           |              |
| Major Thoroughfare<br>(Multilane Undivided) |           |              |
| Major Thoroughfare<br>(2 Lane)              |           |              |
| Minor Thoroughfare                          |           |              |


  

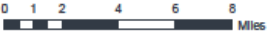
|  |                        |
|--|------------------------|
|  | Other Features         |
|  | Studied Roads          |
|  | FAMPO/Mid-Carolina RPO |



Full report at:  
Need to Update







0 1 2 4 6 8 Miles

Sheet 1 of 4

Base map date: August 19, 2019

**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.

**WORKING COPY**  
Plan Date: July 15, 2020

## Deficiency analysis

### Traffic Projections are based on

- FAMPO Travel Demand Model (TDM)
- Traffic Forecast
- Trend Analysis

### Volume to Capacity Ratio

Base year: Base year traffic counts / Base year Capacity

Future year: Future year E+C traffic projections / Base year capacity

| Level of Service | Volume to Capacity Ratio |
|------------------|--------------------------|
| Within Capacity  | Less Than 0.8            |
| Near Capacity    | Between 0.8 and 1.0      |
| Over Capacity    | Greater than 1           |

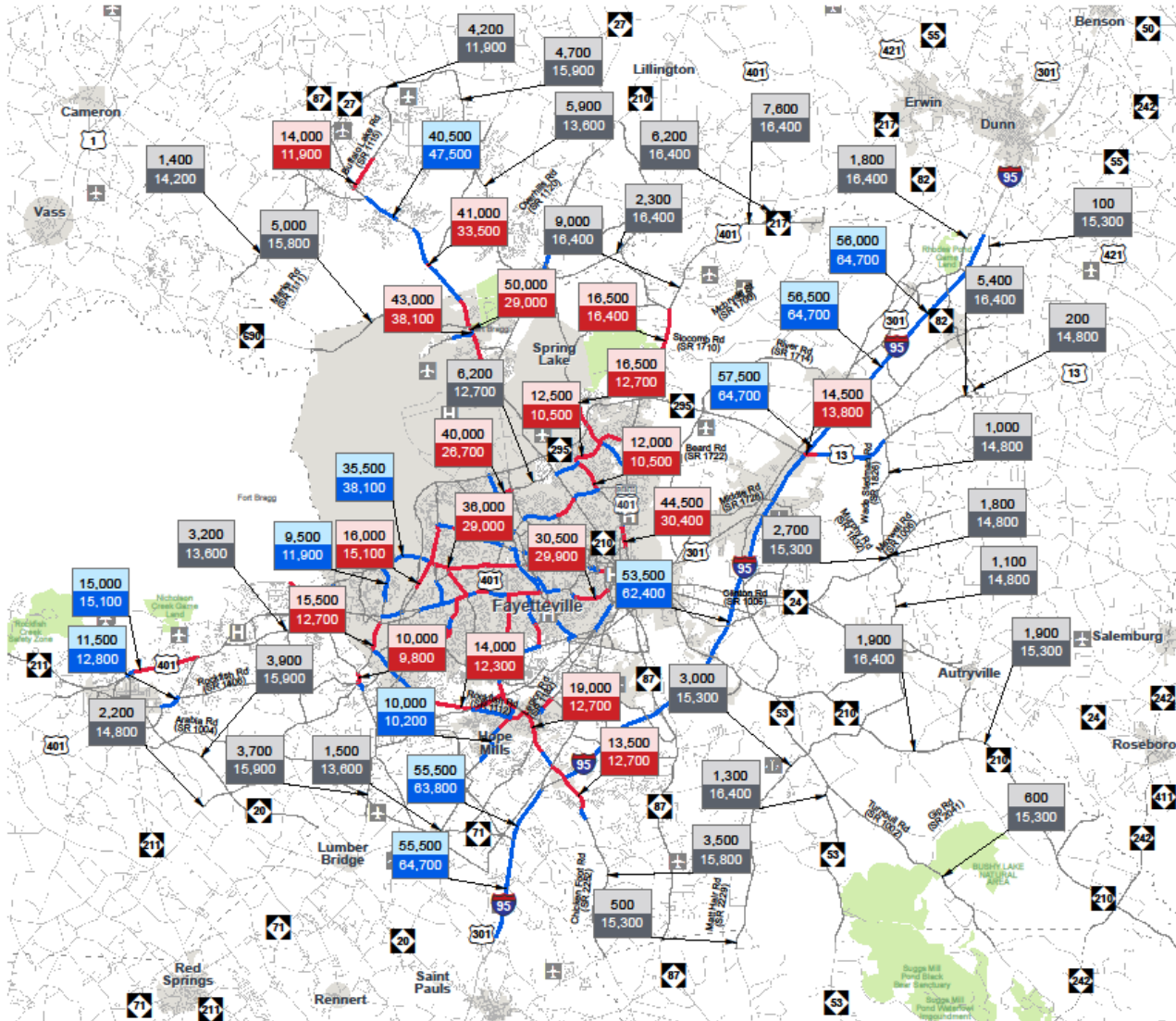


Figure 2  
**2018 VOLUME AND CAPACITY DEFICIENCIES**



**FAMPO\_CUMBERLAND**  
CTP Analysis and Information

Volume and Capacity Ratio Features  
(Base Year 2015)

2018 Volume Under Capacity (0-0.79)

2018 Volume Near Capacity (0.80-0.99)

2018 Volume Over Capacity (1.00+)

Other Features

FAMPO/ Mid-Carolina RPO



Full report at:  
Need to Update



Sheet 1 of 2

Base map date: August 19, 2019

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**WORKING COPY**  
Plan Date: July 15, 2020



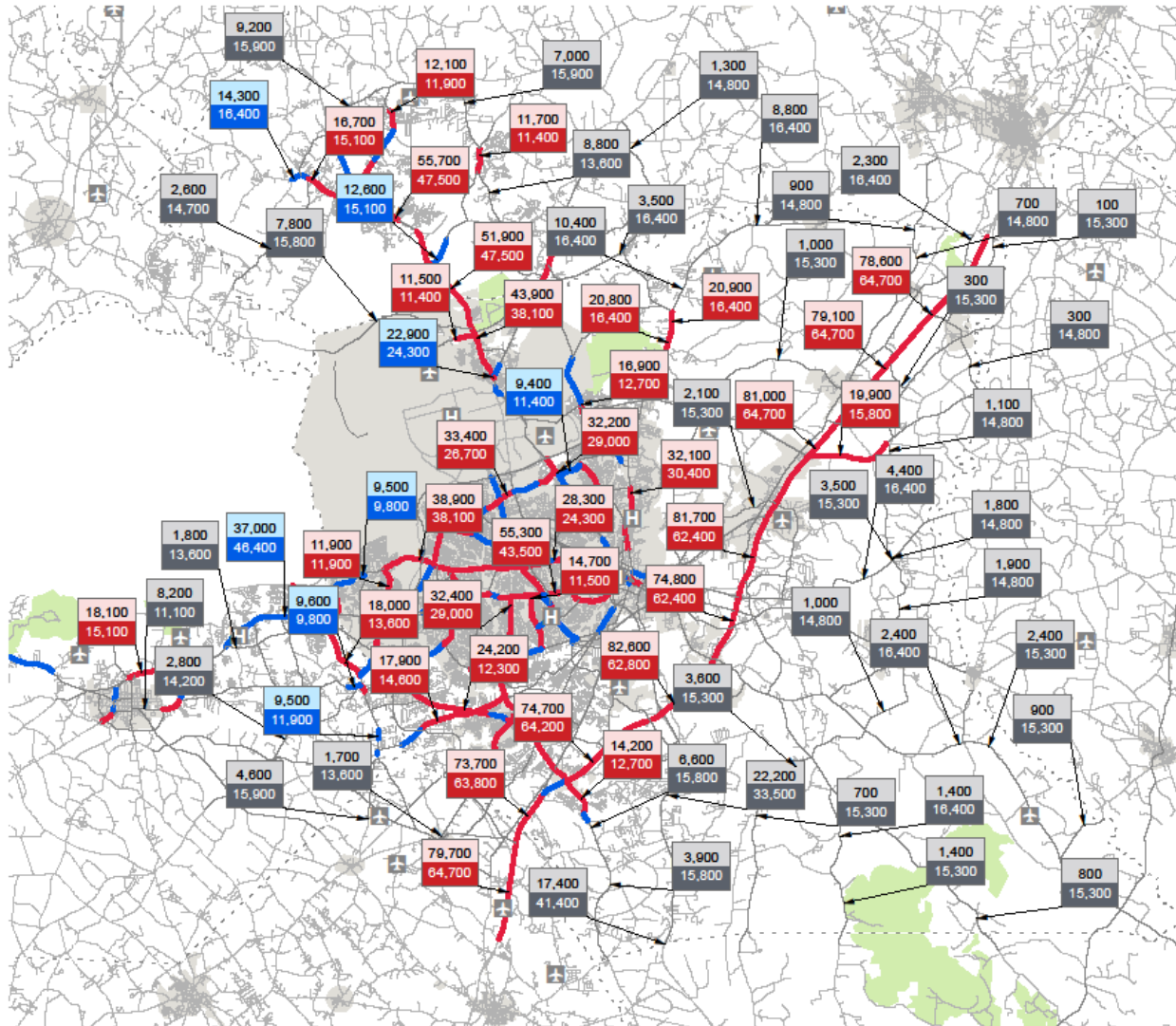


Figure 2  
**2045 VOLUME AND CAPACITY DEFICIENCIES**

**FAMPO\_CUMBERLAND**  
CTP Analysis and Information

Volume and Capacity Ratio Features  
(Future Year 2045)

|                                     |                              |
|-------------------------------------|------------------------------|
| <b>2045 Volume</b><br>2018 Capacity | Under Capacity<br>(0-0.79)   |
| <b>2045 Volume</b><br>2018 Capacity | Near Capacity<br>(0.80-0.99) |
| <b>2045 Volume</b><br>2018 Capacity | Over Capacity<br>(1.00+)     |

Other Features

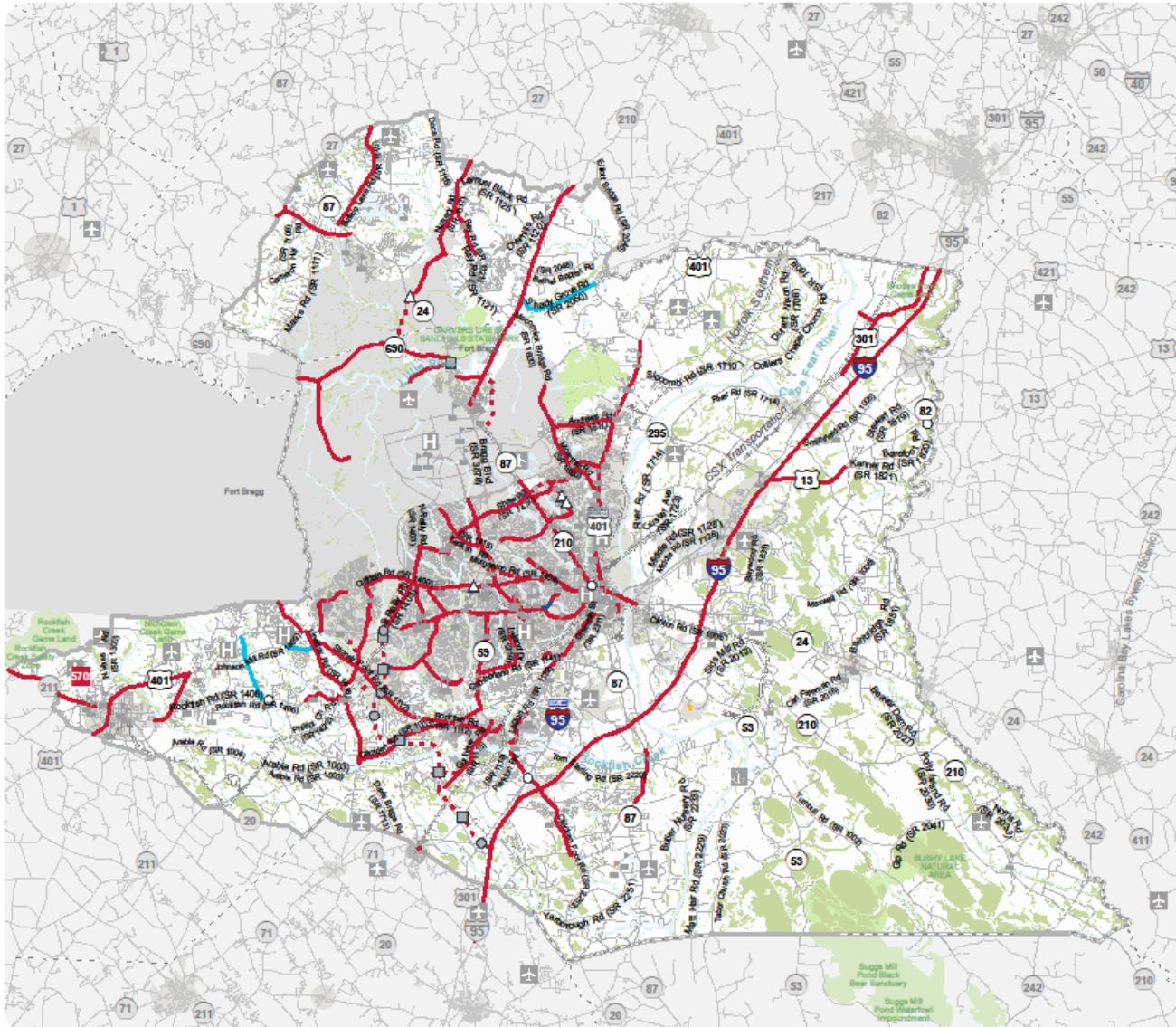
- FAMPO/ Mid-Carolina RPO

Full report at:  
Need to Update

Sheet 2 of 2  
Base map date: August 19, 2019

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**WORKING COPY**  
Plan Date: July 15, 2020



**HIGHWAY RECOMMENDATIONS**  
Proposals that address identified needs through 2045



**FAMPO**  
**CUMBERLAND 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**
  - Durham - Chapel Hill - Carrboro MPO
  - RPO Boundary



Full report at:  
<http://tinyurl.com/DCHC-CTP>



Sheet 2 of 4

Base map date: March 18, 2018

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**DRAFT WORKING MAP**  
Plan Date: July 15, 2020

# Local Bike and Ped projects

- 2045 FAMPO MTP Bike and Ped Element: Fayetteville MPO 2045 MTP Bicycle and Pedestrian Plan is based on the following locally adopted plans.
  - City of Fayetteville Pedestrian Plan (2018)
  - Town of Hope Mills Congestion Management Plan (2018)
  - Fort Bragg Comprehensive Transportation Systems Plan (2018)
  - Harnett County Comprehensive Transportation Plan (2017)
  - FAMPO 2040 Metropolitan Transportation Plan (2014)
  - Southwestern Cumberland County and Northeastern Hoke County Multi- Modal Congestion Management Plan (2013)
  - FAMPO Walks & Bikes Connectivity Study (2011)
  - Raeford Road Corridor Study (2010)
  - FAMPO Bicycle and Pedestrian Plan (2009)
  - Spring Lake Multi-Modal Congestion Management Plan (2009)
  - Cumberland County 2030 Growth Vision Plan (2008)
  - Fayetteville Cumberland Parks & Recreation Master Plan (2006)
  
- City of Fayetteville Bicycle Plan (2020)

## Future Questions or Concerns?

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