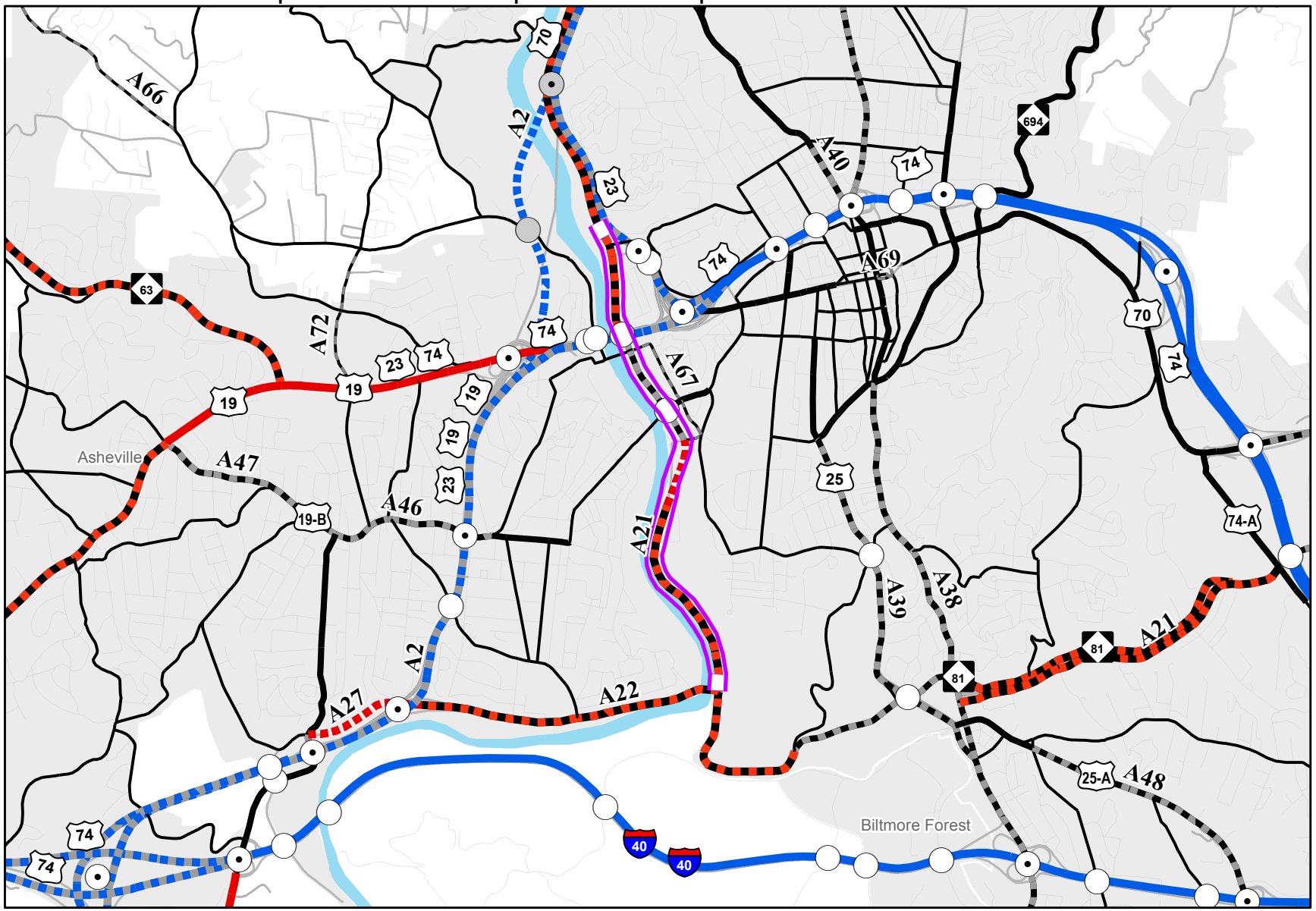
WILMA DYKEMAN RIVERWAY PH 1

CTP/MTP: BUNC21a-H | SPOT3: H090515 | STIP: U-5019 | CMP?

STATUS: DRAFT STIP

FBRMPO 2040 CTP/MTP MAP



Feet

0 1,250 2,500

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Generated by LOSRC: 4/22/2015

Legend

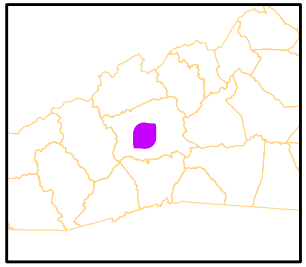
- Highlight

CTP SEPARATION CLASS

- Existing Grade Separation
- Existing Interchange
- Proposed Grade Separation
- Proposed Interchange

CTP CLASSIFICATION

- Boulevards: Existing
- Boulevards: Needs Improvement
- Boulevards: Recommended
- Expressways: Existing
- Expressways: Needs Improvement
- Expressways: Recommended
- Freeways: Existing
- Freeways: Needs Improvement
- Freeways: Recommended
- Minor Thoroughfares: Existing
- Minor Thoroughfares: Needs Improvement
- Minor Thoroughfares: Recommended
- Other Major Thoroughfares: Existing
- Other Major Thoroughfares: Needs Improvement
- Other Major Thoroughfares: Recommended



PROJECT DESCRIPTION: WIDEN WITH MEDIAN AND PARALLEL PARKING (SPOT 2)

FROM US 70 TO BROADWAY ST (CTP TERMINI)
FROM TO (LRTP TERMINI)
FROM Amboy Road TO 2.2 Miles North on Riverside Drive (SPOT TERMINI)
FROM US 70 TO BROADWAY (SR 1781) (TIP TERMINI)
EXISTING X-§ , 1LANE PER DIRECTION Undivided, 30MPH
FUTURE X-§ , 2G - 2 Lane Undivided with Curb & Gutter, Parking Both Sides, Bike Lanes, and Sidewalks (SPOT 3)
COMPLETE STREET RECCOMENDED:
SPONSOR: , COST EST $ 73991000 (SPOT 3)

LAND OF SKY REGIONAL COUNCIL

FRENCH BROAD RIVER METROPOLITAN PLANNING ORGANIZATION
A PROGRAM OF LAND OF SKY

CTP_MTP_ID: BUNC21a-H

Wilma Dykeman Riverway PH 1

SPOT3_ID: H090515

TIP_ID: U-5019

MTP_FROM: HILL ST/I-240

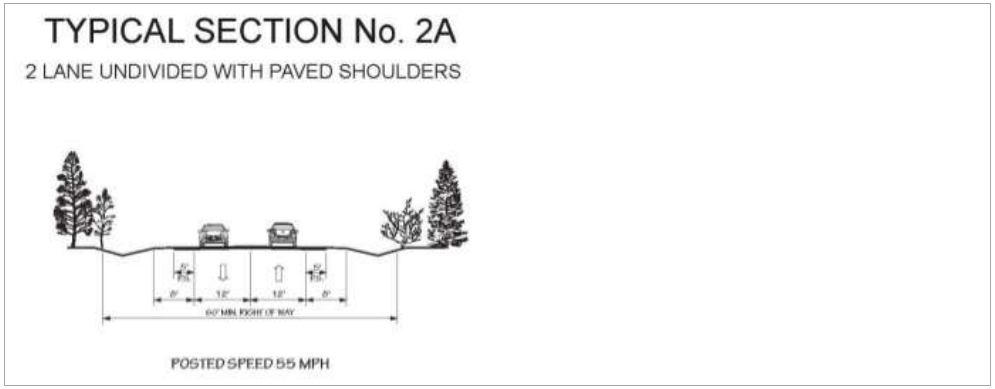
TO: AMBOY RD

PROJECT DESCRIPTION: WIDEN WITH MEDIAN AND PARALLEL PARKING

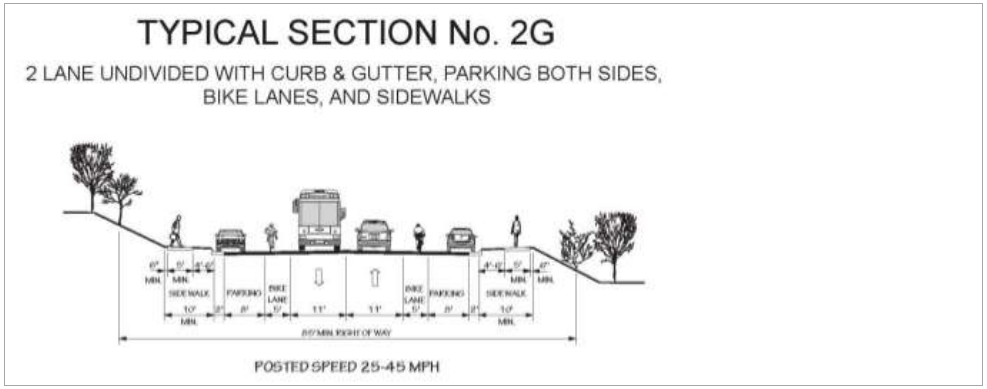
SOURCE: SPOT 2

Miles	CTPPriority	LRTP_TIER	OriginatorSponsor	EST_COST	COST_SOURCE
2.231	0	1	CITY OF ASHEVILLE	$73,991,000	SPOT3

Current X-Section (based on statewide typical section)

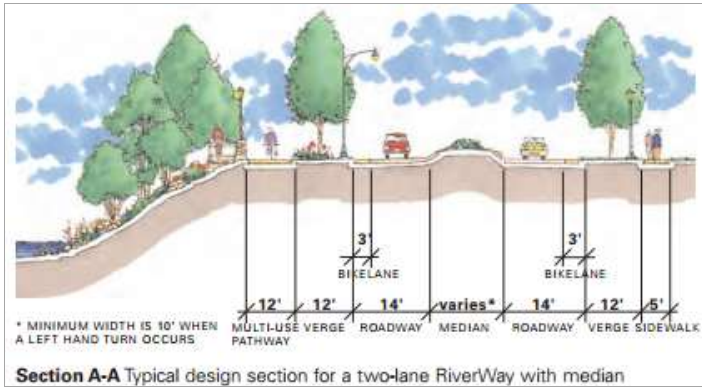


Future X-Section (based on statewide typical-For SPOT)



Existing Conditions Photo

Complete Street Recommendation (based on statewide typical section/Local Pla



FBRMPO Complete Street Recomended Cross Section: See WDR RADTIP Study

EXISTING CROSS-SECTION: 2A

EXIST_DESC: 1LANE PER DIRECTION Undivided, 30MPH

FUTURE CROSS SECTION: 2G

FUTUR_DESC: Existing, 1LANE PER DIRECTION TWLTL, 35MPH

FUTURE X § SOURCE DO: SPOT 3

FUTUR_SRC: SPOT 2

COMMENTS: $7,442,000 in STIP for ROW as STP-DA & TAP. Construction Costs are not yet in STIP; showing SPOT cost estimate for total

CTP_MTP_ID: BUNC21a-H

Wilma Dykeman Riverway PH 1

SPOT3_ID: H090515

TIP_ID: U-5019

MTP_FROM: HILL ST/I-240 TO: AMBOY RD

PROJECT DESCRIPTION: WIDEN WITH MEDIAN AND PARALLEL PARKING

SOURCE: SPOT 2

SPOT2_SCOR	12.18	STATUS	HORIZON 1	COUNTY	BUNCOMBE	ProjReqTyp	HIGHWAY	FedFunctionClass	4
WBS_EL									

SPOT3_STATEWIDE Total	N/A						
SPOT3_REGIONAL Total	N/A	REGIONAL SCORES: Data	N/A	MPO/RPO Points	0.00	NCDOT_Points	0.00
SPOT3_DIVISION Total	38.53	DIVISION SCORES: Data	13.53	MPO/RPO Points	100.00	NCDOT_Points	0.00

Purpose and Need Statement (from CTP)

The Wilma Dykeman Riverway is a multi-modal facility envisioned to provide a framework for the redevelopment of the waterfront along the French Broad and Swannanoa Rivers. The Wilma Dykeman Riverway Master Plan details the functional design for the corridor for all modes in addition to the potential economic development/redevelopment potential.

CTP Recommendation

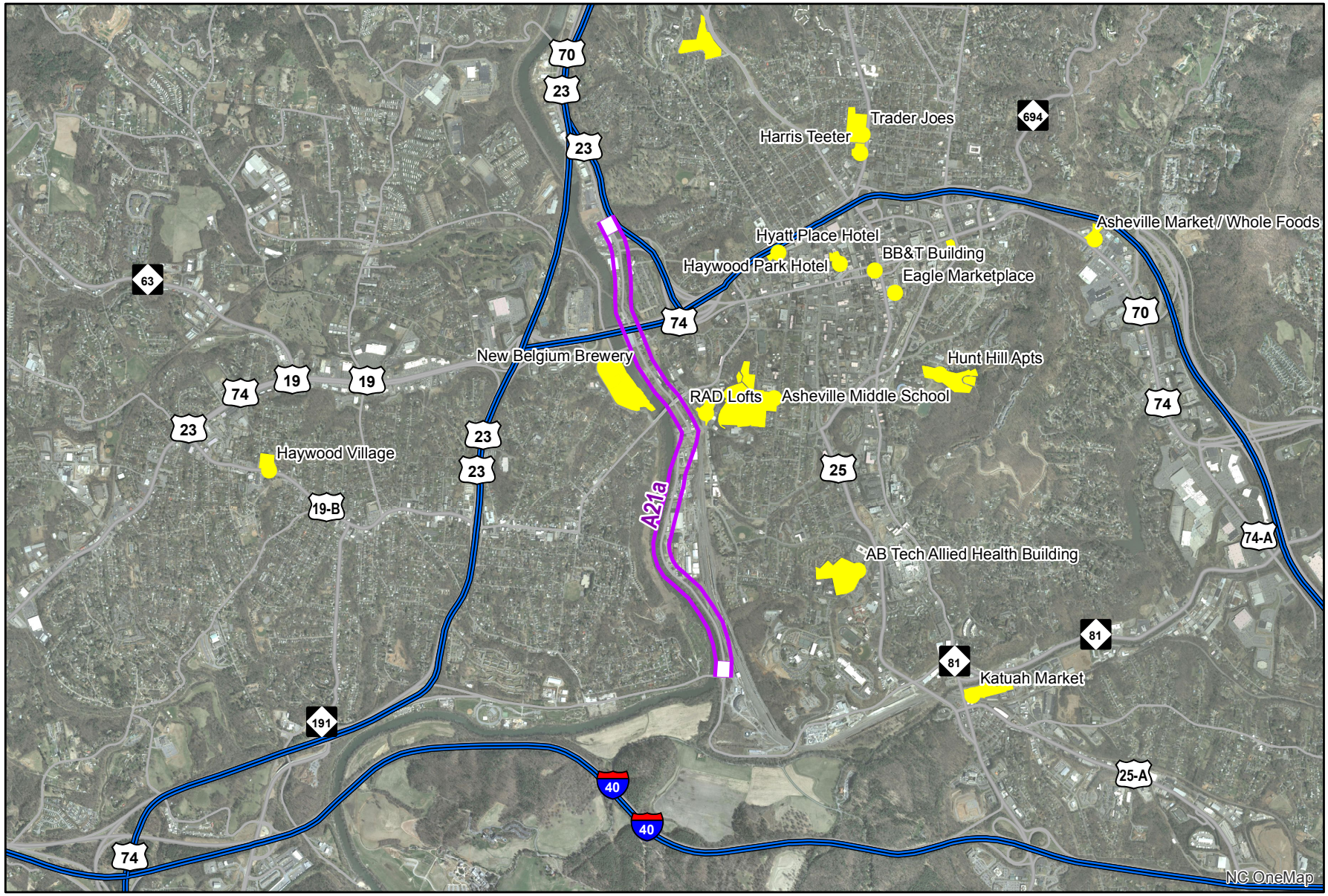
Improve the facility or construct on new location per the Wilma Dykeman Riverway Master Plan. This currently calls for sections of two or four lanes with median or a 3-lane section with parallel parking. Additionally, this project should be coordinated with bicycle improvements identified in the Asheville Comprehensive Bicycle Master Plan. This project has been identified in the LRTP and the TIP as projects U-5019 and U-4739.

CTP From	AMBOY ROAD	TO	2.2 Miles North on Riverside Drive
SPOT_FROM	Amboy Road	TO	2.2 Miles North on Riverside Drive
TIP_FROM	HILL STREET/I-240 INTERCHANGE	TO	AMBOY ROAD

WILMA DYKEMAN RIVERWAY PH 1

CTP/MTP: BUNC21a-H | SPOT3: H090515 | STIP: U-5019 | CMP? **STATUS: DRAFT STIP**

TIP PRIORITIZATION (SPOT) MAP



Feet

0 1,250 2,500

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SPOT Scores are the quantitative portion only and do not reflect local or division points.

Legend

- Project

NC_SHCs

Future Facility

- Freeway
- Expressway
- Boulevard
- Other

Pending Development

Statewide Score: N/A | Region Score: N/A | Division Score: 13.53

PROJECT DESCRIPTION: WIDEN WITH MEDIAN AND PARALLEL PARKING (SPOT 2)

FROM US 70 TO BROADWAY ST (CTP TERMINI)
FROM Amboy Road TO 2.2 Miles North on Riverside Drive (SPOT TERMINI)
EXISTING X-§ , 1LANE PER DIRECTION Undivided, 30MPH
FUTURE X-§ , 2G - 2 Lane Undivided with Curb & Gutter, Parking Both Sides, Bike Lanes, and Sidewalks (SPOT 3)
Congestion Score: 34.32 || Travel Time Savings Score: 0 || Safety Score: 66.66 || MultiModal Score: 0 || Economic Score: N/A
Access Score: N/A Lane WidthScore: N/A || Shoulder Width Score: N/A || MPO/RPO: French Broad River MPO, ,
SPONSOR: , COST EST $ 73991000 (SPOT 3)

LAND OF SKY REGIONAL COUNCIL

FRENCH BROAD RIVER METROPOLITAN PLANNING ORGANIZATION
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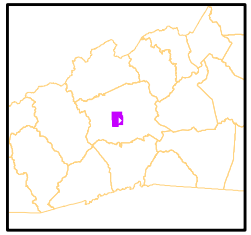
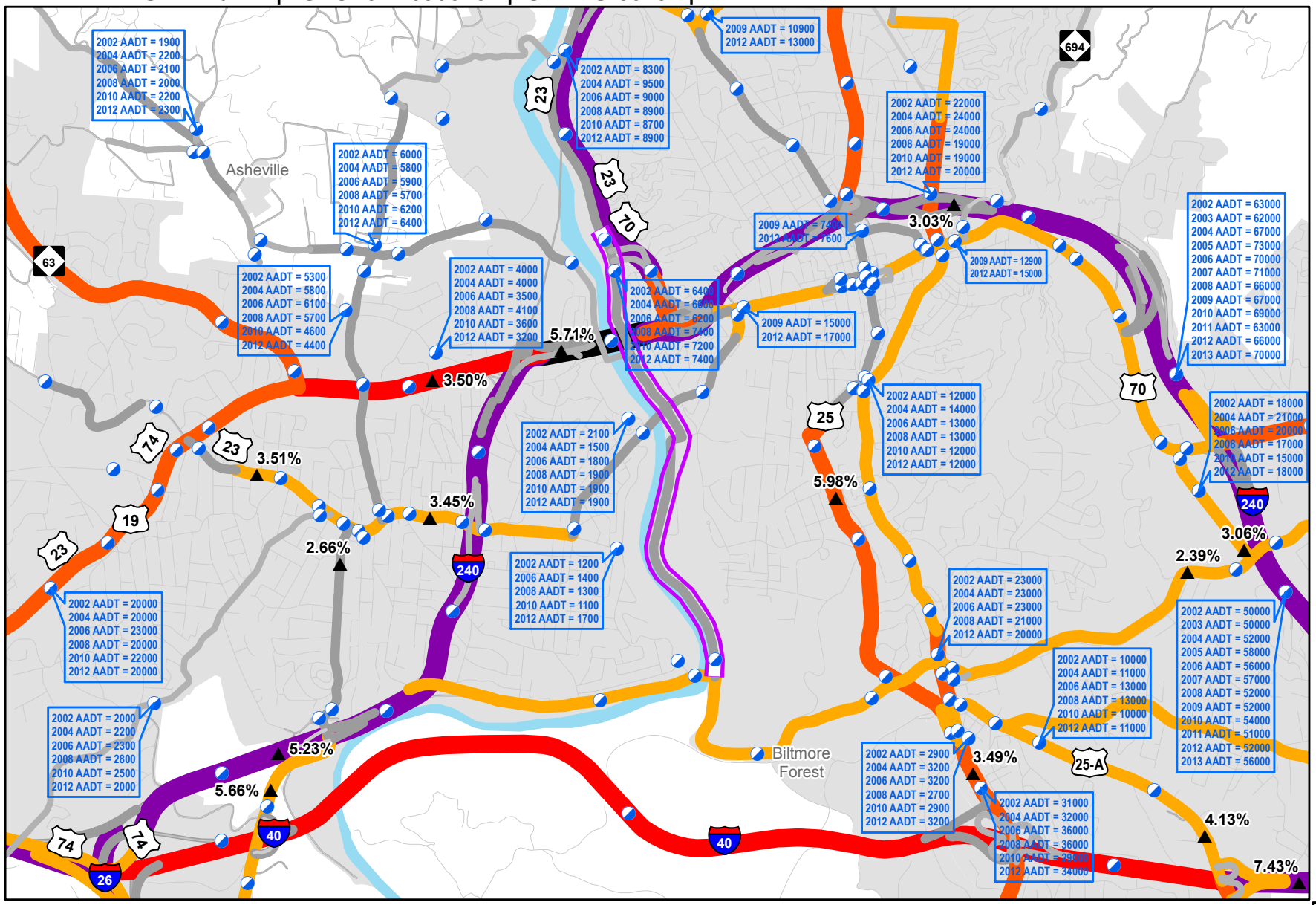


WILMA DYKEMAN RIVERWAY PH 1

CTP/MTP: BUNC21a-H | SPOT3: H090515 | STIP: U-5019 | CMP?

STATUS: DRAFT STIP

2013 Annualized Average Daily Traffic (AADT) MAP



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N

Generated by LOSRC: 5/29/2015

Feet

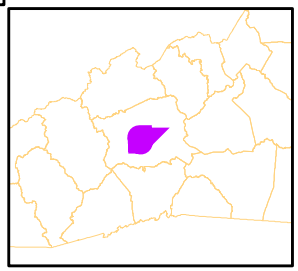
0 1,250 2,500

AADT=Annualized Average Daily Traffic; VC Station Label = Truck Percentage

- ▲ VC Stations (% Freight)
- Highlight
- 0 - 499
- 500 - 1,999
- 2,000 - 4,999
- 5,000 - 9,999
- 10,000 - 19,999
- 20,000 - 34,999
- 35,000 - 54,999
- 55,000 - 84,999
- 85,000 - 250,000
- NCDOT Roads
- County Boundary
- Major Hydrography
- Municipal Boundaries

LAND OF SKY REGIONAL COUNCIL

FRENCH BROAD RIVER METROPOLITAN PLANNING ORGANIZATION
A PROGRAM OF LAND OF SKY

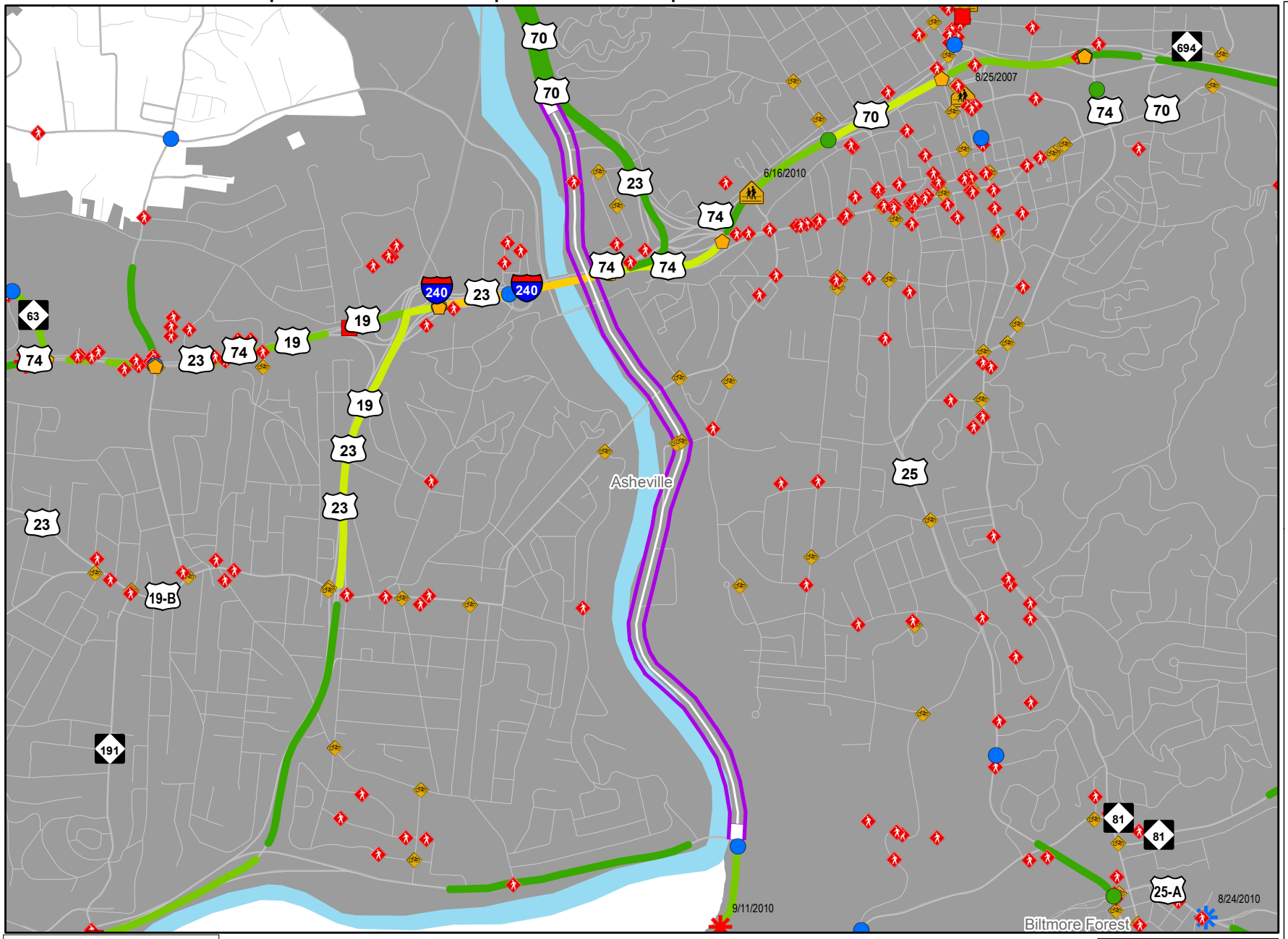


WILMA DYKEMAN RIVERWAY PH 1

CTP/MTP: BUNC21a-H | SPOT3: H090515 | STIP: U-5019 | CMP?

STATUS: DRAFT STIP

2013 CRASH MAP
FBRMPO



INTERSECTIONS

Crash Count
- 4.00000 - 9.00000
- 10.00001 - 19.00000
- 20.00001 - 29.00000
- 30.00001 - 39.00000
- 40.00001 - 49.00000
- 50.00001 - 281.00000

Ped Crashes-Detail

Bike Crashes-Detail

NCDOT Crash Data
- No Type Defined
- PARKED MOTOR VEHICLE
- BACKING UP
- RR TRAIN, ENGINE
- ANIMAL
- FIXED OBJECT
- MOVABLE OBJECT
- PEDALCYCLIST
- JACKKNIFE
- PEDESTRIAN
- HEAD ON
- ANGLE
- LEFT TURNS
- RIGHT TURNS
- REAR END
- SIDESWIPES
- OVERTURN/ROLLOVER
- RAN OFF ROAD
- OTHER NON-COLLISION
- OTHER COLLISION W/VEHICLE
- UNKNOWN
- Project

Crashes Per Segment
- 4.00000 - 9.00000
- 10.00001 - 19.00000
- 20.00001 - 29.00000
- 30.00001 - 39.00000
- 40.00001 - 49.00000
- 50.00001 - 667.00000

Project
NCDOT Roads
MPO Major Roads Primary Labels
County Boundary
Major Hydrography
Municipal Boundaries

N

Feet
0 570 1,140

Generated by LOSRC: 4/21/2015

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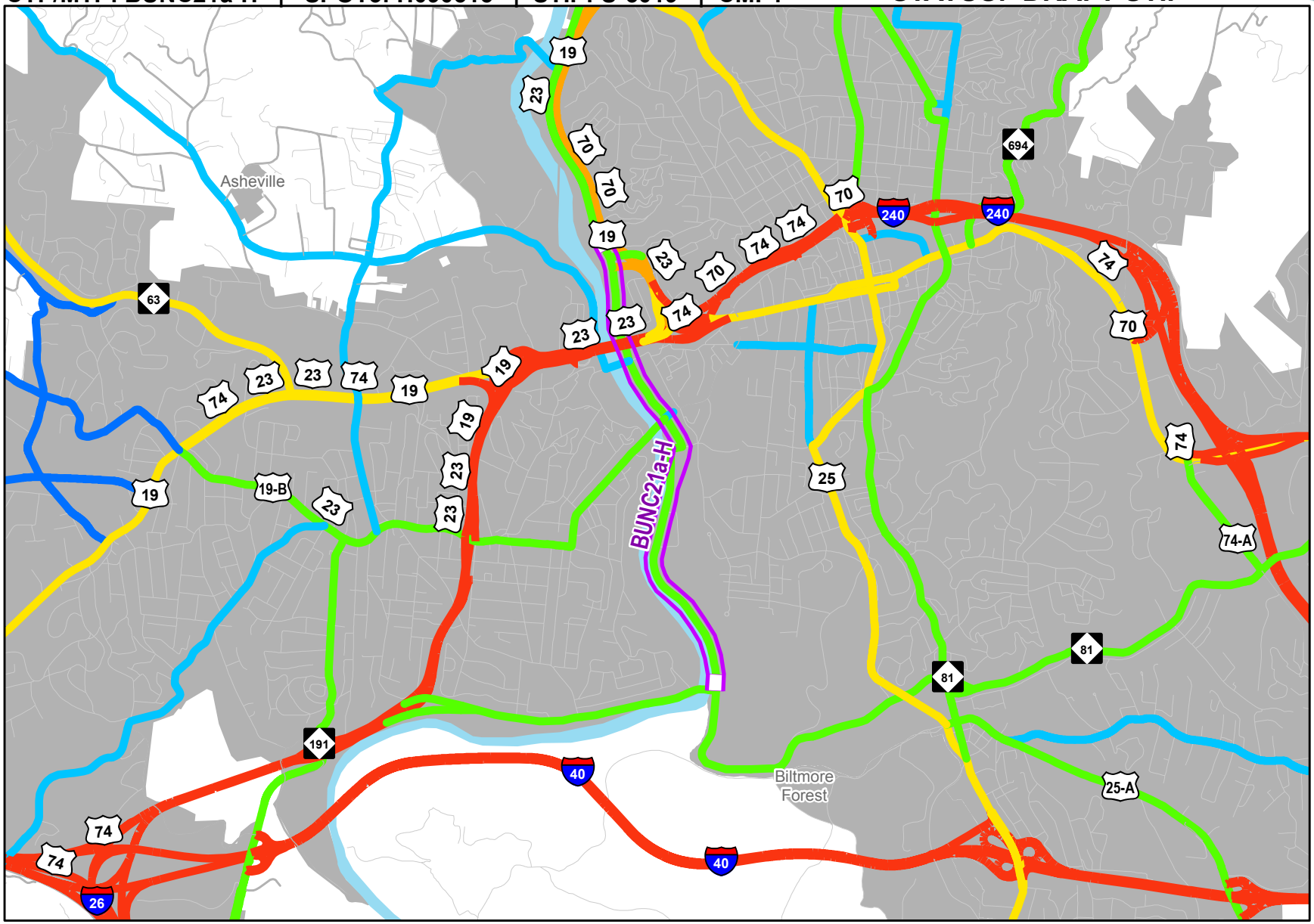
WILMA DYKEMAN RIVERWAY PH 1

CTP/MTP: BUNC21a-H | SPOT3: H090515 | STIP: U-5019 | CMP?

STATUS: DRAFT STIP

FUNCTIONAL CLASS MAP
FBRMPO 2015



Feet

0 1,250 2,500

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Functional Class:
Minor Arterial

- Project
- County Boundary
- Major Hydrography
- Municipal Boundaries

FunctionClassFromRoadCharacteristics
Federal Functional Class

- 1-Principal Arterial-Interstate
- 2-Principal Arterial-Other Freeway/Expressway
- 3-Other Principal Arterial
- 4-Minor Arterial
- 5-Major Collector
- 6-Minor Collector
- 7-Local

Functional classification is the process by which streets and highways are grouped into classes, or systems, according to the character of traffic service that they are intended to provide. There are three highway functional classifications: arterial, collector, and local roads. All streets and highways are grouped into one of these classes, depending on the character of the traffic (i.e., local or long distance) and the degree of land access that they allow.

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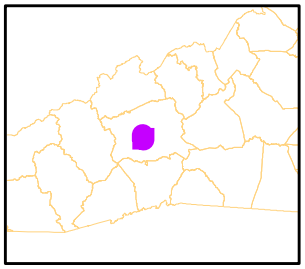
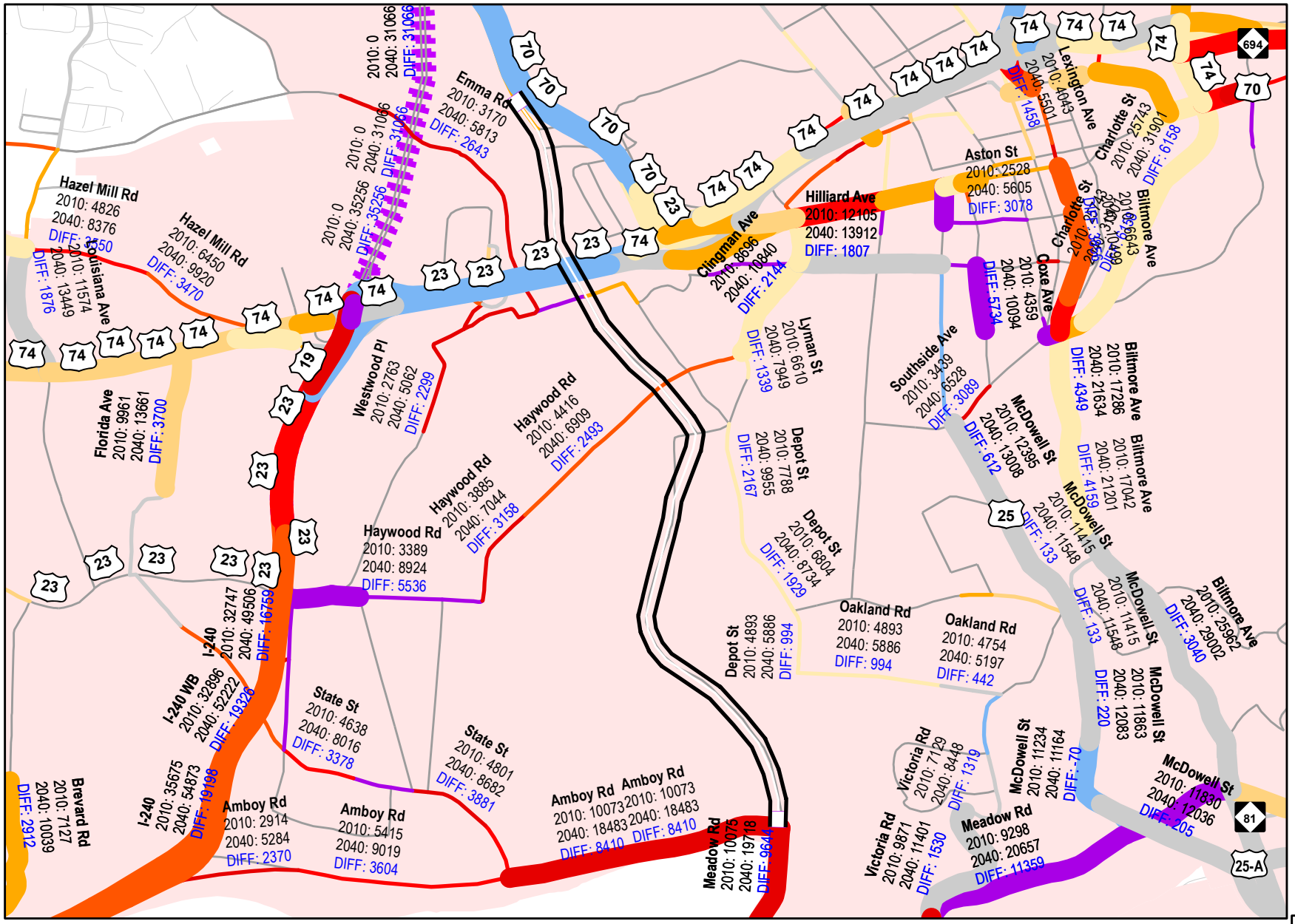


WILMA DYKEMAN RIVERWAY PH 1

CTP/MTP: BUNC21a-H | SPOT3: H090515 | STIP: U-5019 | CMP?

STATUS: DRAFT STIP

FBRMPO 2040 MODELED TRAFFIC MAP



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Project

2040 AADT >=10000, % Change 2010 to 2014

- -1.00022127 - 0.000000000
- 0.000000000 - 0.200000000
- 0.200000001 - 0.300000000
- 0.300000001 - 0.400000000
- 0.400000001 - 0.500000000
- 0.500000001 - 0.600000000
- 0.600000001 - 0.750000000
- 0.750000001 - 1.00000000
- 1.00000001 - 1234.06263

2040 AADT >=5000, % Change 2010 to 2014

- -1.00022127 - 0.000000000
- 0.000000000 - 0.200000000
- 0.200000001 - 0.300000000
- 0.300000001 - 0.400000000
- 0.400000001 - 0.500000000
- 0.500000001 - 0.600000000
- 0.600000001 - 0.750000000
- 0.750000001 - 1.00000000
- 1.00000001 - 1234.06263
- Network 2040 AADT < 5000

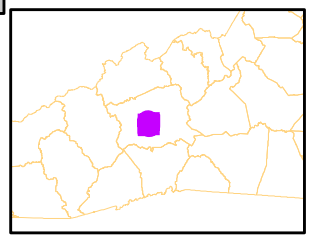
New Location Projects

- New Location Projects
- MPO_RPO_CountyBoundaries

This map depicts the percentage change of traffic based on the FBRMPO Travel Demand Model. The model is based on a select network of roads and assumes the improvements in the current Metropolitan Transportation Plan are in place by 2040. The labels show the 2010 model foundation year traffic, the 2040 traffic, and the difference between the 2.

LAND OF SKY REGIONAL COUNCIL

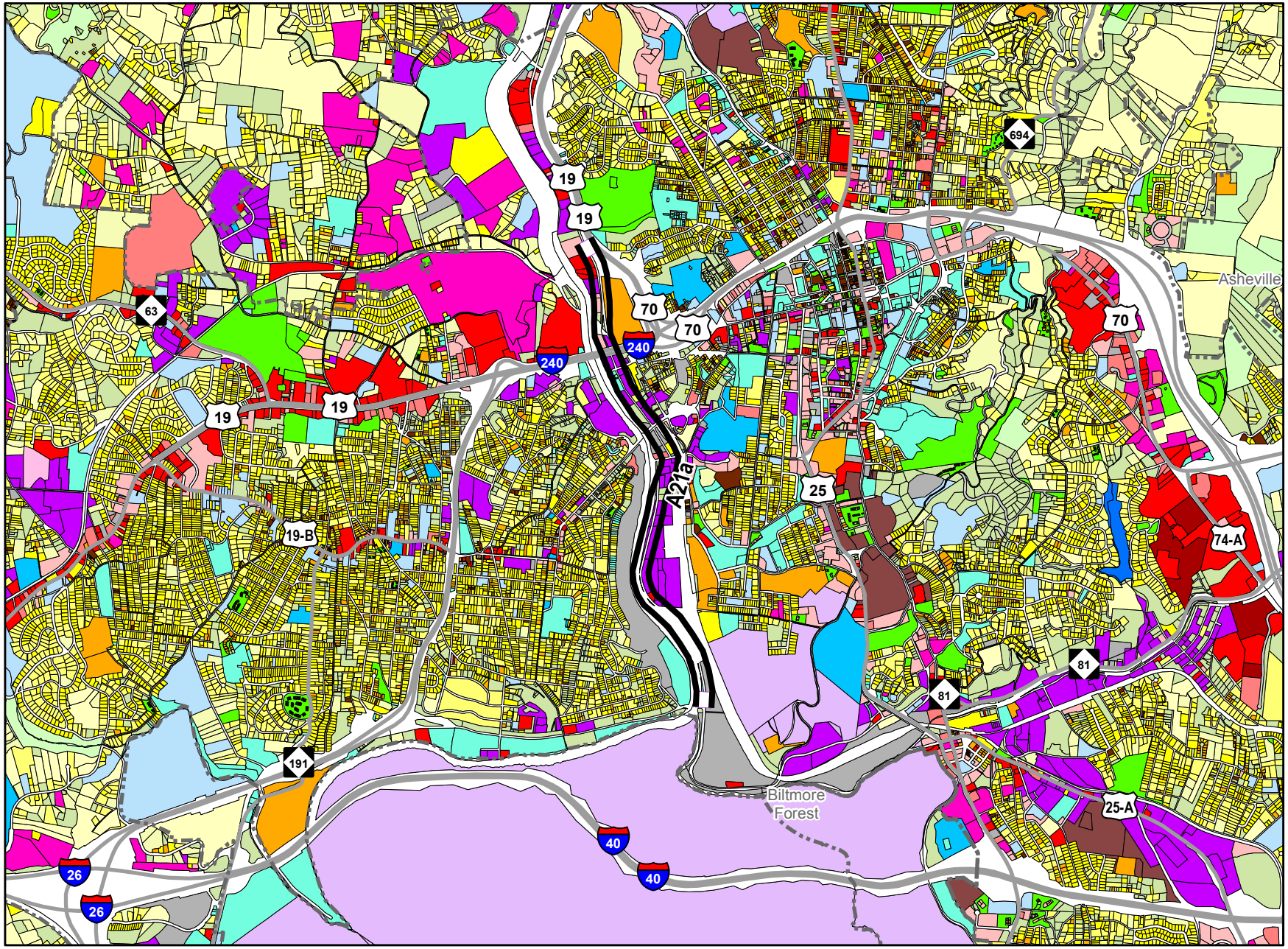
FRENCH BROAD RIVER METROPOLITAN PLANNING ORGANIZATION
A PROGRAM OF LAND OF SKY



WILMA DYKEMAN RIVERWAY PH 1

CTP/MTP: BUNC21a-H | SPOT3: H090515 | STIP: U-5019 | CMP? STATUS: DRAFT STIP

FBRMPO 2010 EXISTING LAND USE MAP



Feet

0 1,200 2,400

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Generated by LOSRC: 4/21/2015

N

Existing Land Use is derived from 2010 tax appraisal data and is linked to land use categories that were used with the Triangle Regional Model and are tied to the the 1991 Triangle travel behavior survey.

Highlight

MPO Major Roads Primary Labels

Existing Land Use From Tax Data

unknown/error

Travel Model Use Categories

CAMP

FARM
Rural Residential
Very Low Density Res
Low Density Red
MedLow Density Red
Medium Density Res

MedHigh Res
High Density Res
Very High Dens Res
Ultra High Dens Red
Group Quarters
Mixed Use

LODGING
CIVIC
GOV
SCHOOL
HOSPTL
OFFICE

SERVICE
RETAIL
MALL
IND
SPECIAL
Right of Way

UTILITY
Parks & Green
Protected Natural
VACANT
WATER

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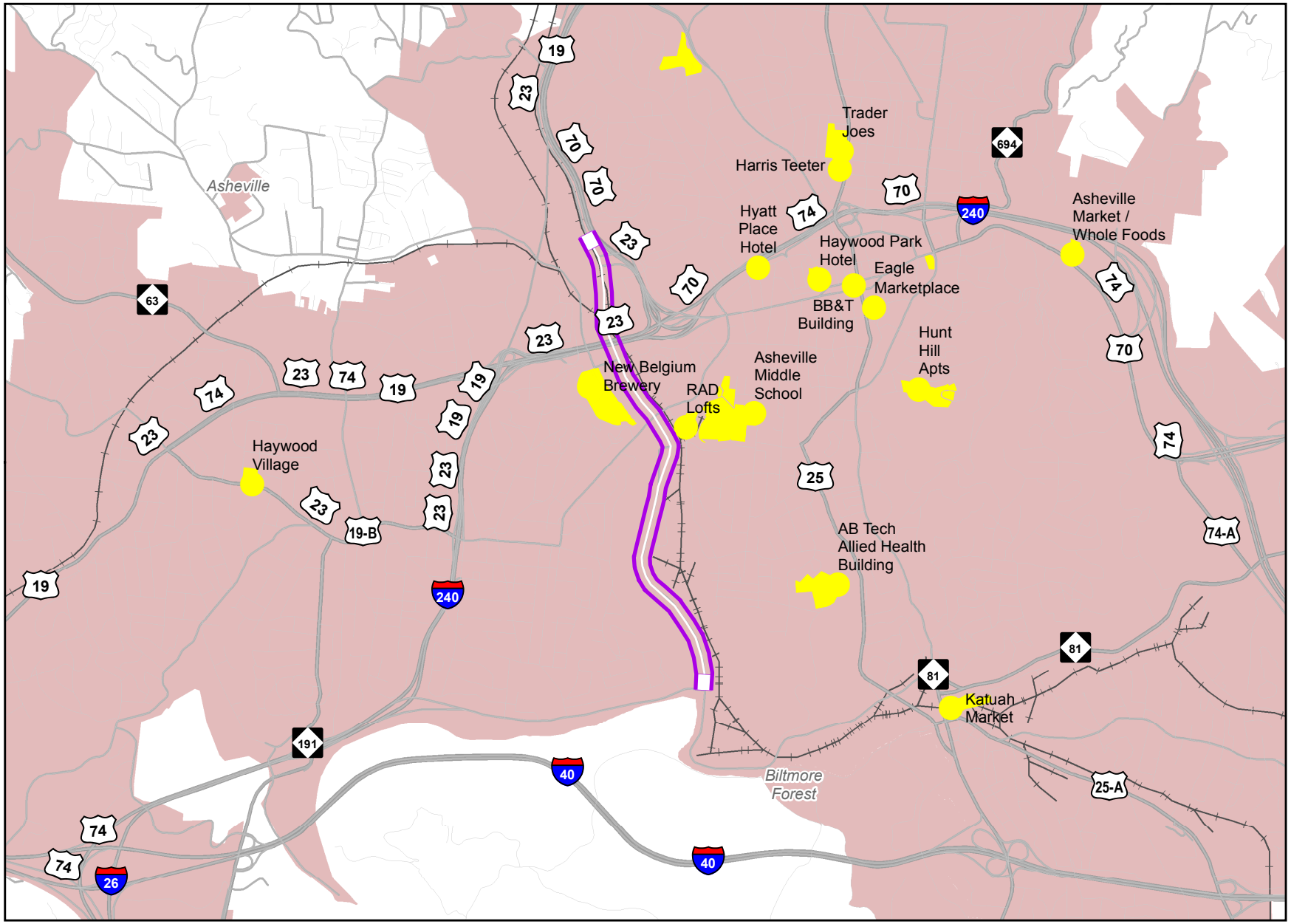
STATUS: DRAFT STIP

FBRMPO 2015 PENDING DEVELOPMENT MAP



Feet

0 1,250 2,500

N

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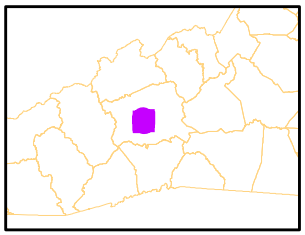
Generated by LOSRC: 4/21/2015

Pending developments are current as of January 2015 and were used to supplement the 2010 existing land use data from tax records for model base year data about population and employment.

- Project
- Pending Developments
- Pending Development Parcels
- Counties
- Railroads
- Municipal Boundaries



WILMA DYKEMAN RIVERWAY PH 1

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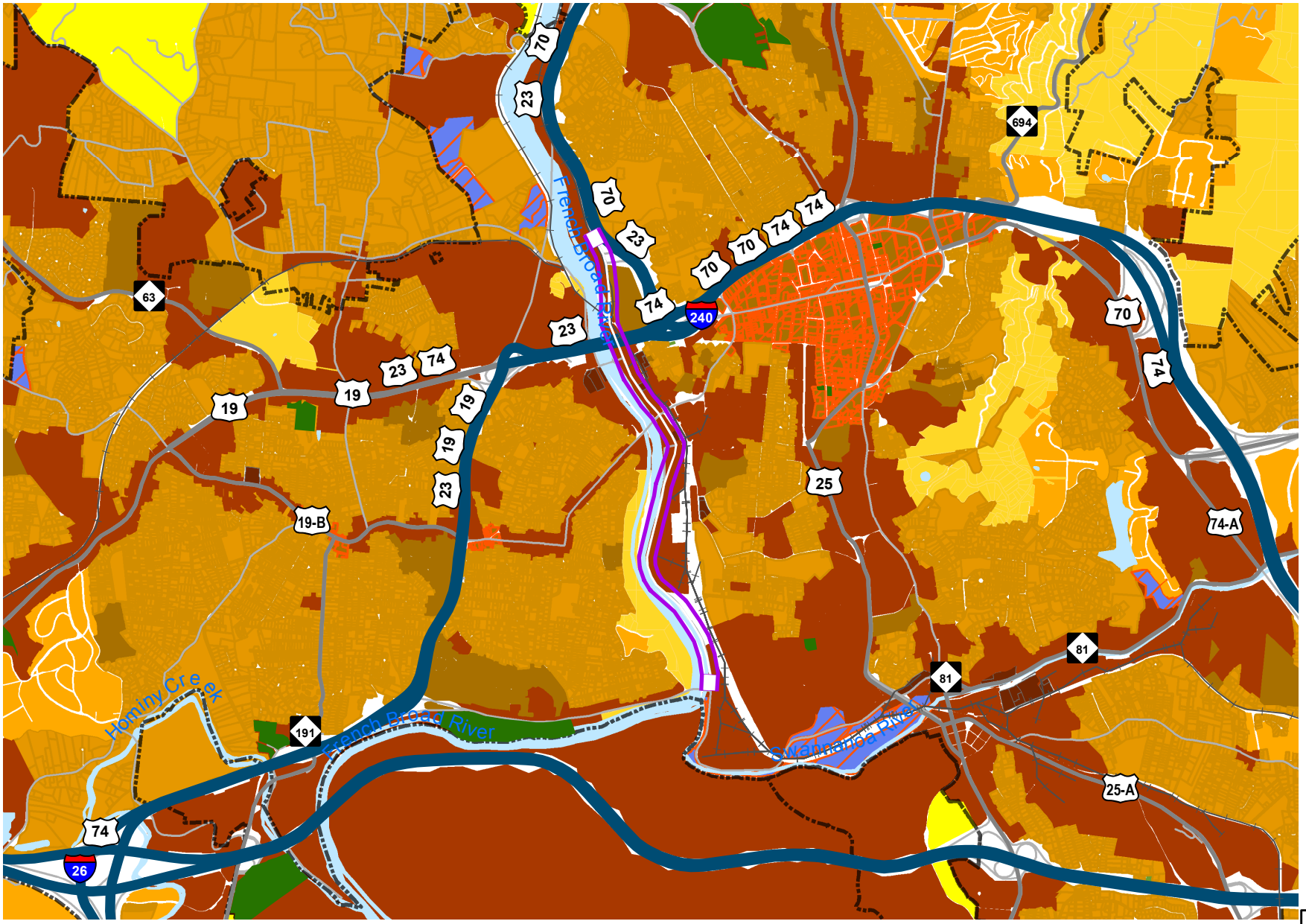
STATUS: DRAFT STIP

FBRMPO GENERALIZED FUTURE LAND USE



Feet

0 1,250 2,500

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Generated by LOSRC: 4/21/2015

Future Land Use is derived from existing approved plans, studies, and land use controls in place where no plans or studies exist. Categories of disparate plans were condensed and generalized in order to compare plans to one another.

N

- Project
- OS - Open Space
- WSW - Water Supply Watershed or HQ/ORW
- OU - Rural Open Use
- SOU - Suburban Open Use
- VLRES - Very Low Density Residential
- LRES - Low Density Residential
- MLRES - Medium Low Density Residential
- MRES - Medium Density Residential
- MHRES - Medium High Density Residential
- HRES - High Density Residential
- VHRES - Very High Density Residential
- RCOM - Rural Commercial
- COM - Commercial
- INST - Institutional
- IND - Industrial
- INDMU - Industrial Mixed Use
- CMU - Commercial Mixed Use
- VMU - Village Mixed Use
- HDMU - High Density Mixed Use
- DTMU - Downtown Mixed Use

LAND OF SKY REGIONAL COUNCIL

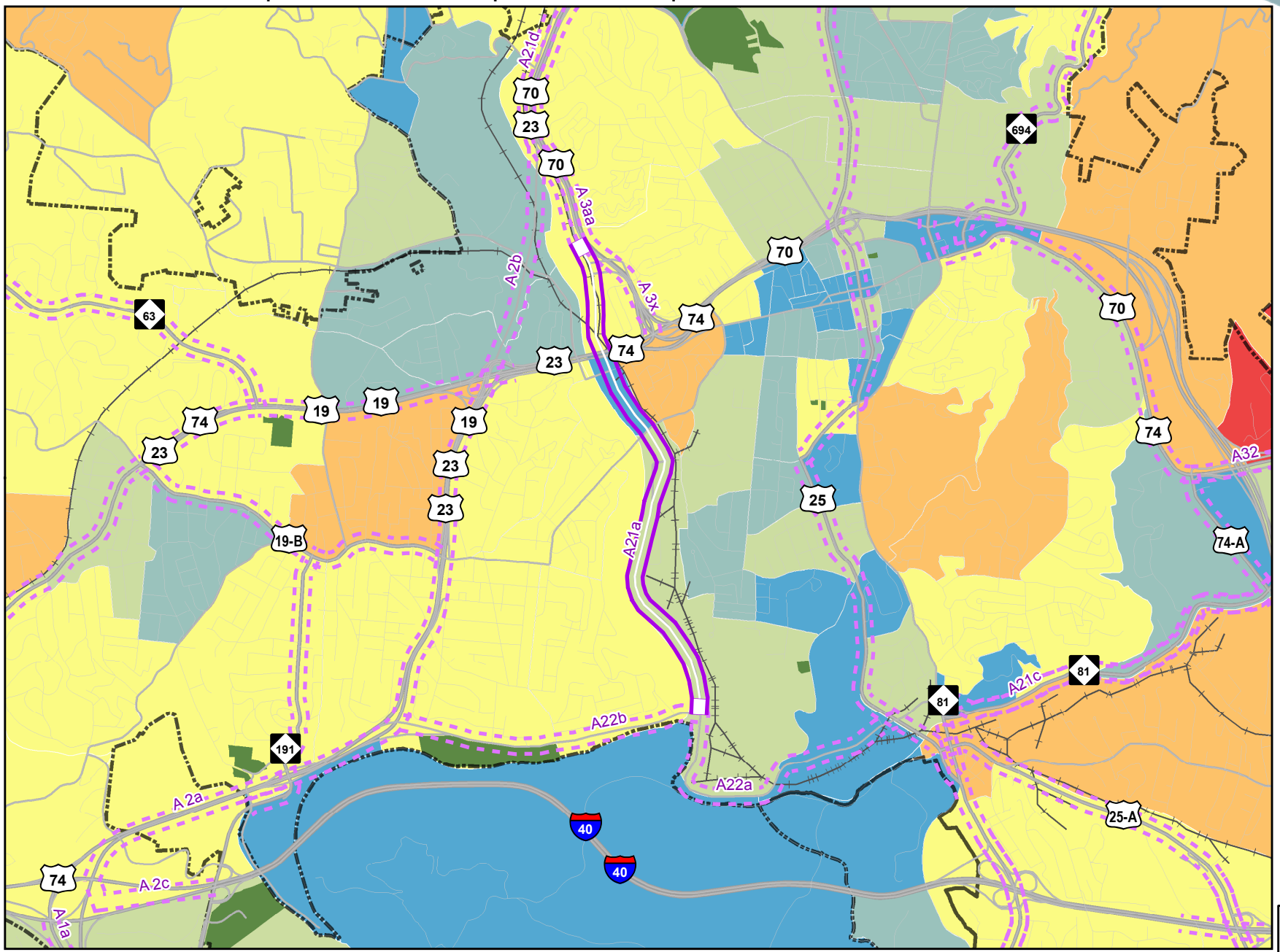
FRENCH BROAD RIVER METROPOLITAN PLANNING ORGANIZATION

WILMA DYKEMAN RIVERWAY PH 1

CTP/MTP: BUNC21a-H | SPOT3: H090515 | STIP: U-5019 | CMP?

STATUS: DRAFT STIP

2040 TRAFFIC ANALYSIS ZONE DWELLING UNIT FORECAST



Feet

0 1,200 2,400

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Generated by LOSRC: 4/22/2015

- Project
- Adjacent Projects

DU Growth % 2010-2040

- 0.00 - 25.00
- 25.01 - 50.00
- 50.01 - 100.00
- 100.01 - 250.00
- 250.01 - 500.00
- 500.01 - 750.00
- 750.01 - 1200.00
- Municipal Boundaries
- Railroads

N

Dwelling unit (DU) forecasts were done using land use and population as a foundation, and market & regulatory conditions to predict the geographic distribution of changes. The Business As Usual (BAU) scenario of the GroWNC project is the basis of the final forecast.

LAND OF SKY REGIONAL COUNCIL

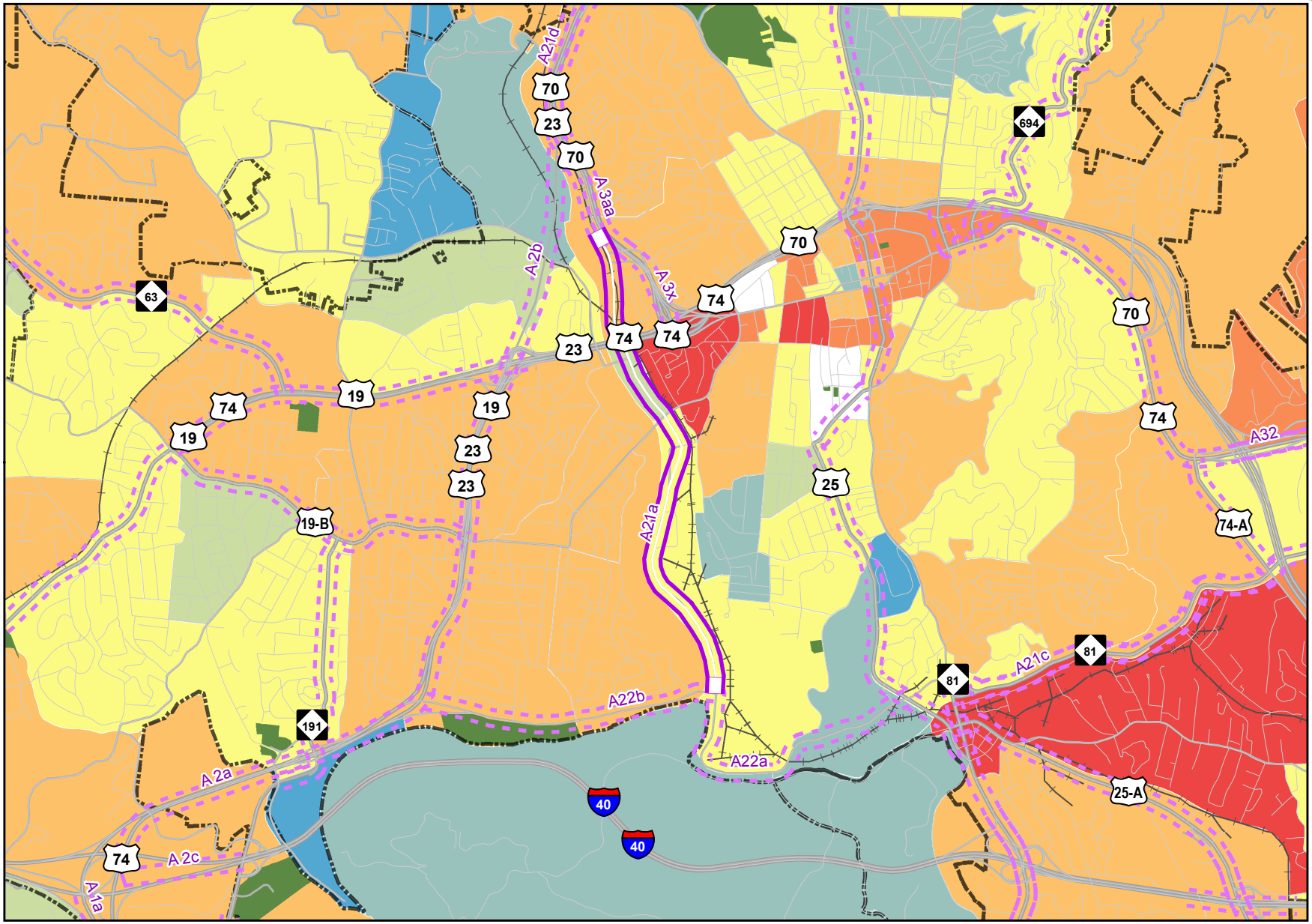
FRENCH BROAD RIVER METROPOLITAN PLANNING ORGANIZATION

WILMA DYKEMAN RIVERWAY PH 1

CTP/MTP: BUNC21a-H | SPOT3: H090515 | STIP: U-5019 | CMP?

STATUS: DRAFT STIP

2040 TRAFFIC ANALYSIS ZONE EMPLOYMENT FORECAST



Feet

0 1,250 2,500

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Employment forecasts were done using land use and geographically referenced employment data from InfoUSA (and verified/corrected my MPO staff) as a foundation. Market & regulatory conditions were used to predict the geographic distribution of changes. The Business As Usual (BAU) scenario of the GroWNC project is the basis of the final forecast. This method captures aggregate trends, but will not predict new, major employers in specific locations.

N

Employment Growth by TAZ 2010-2014 (# of new employees)

Project

Adjacent Projects

0 - 25

26 - 50

51 - 100

101 - 250

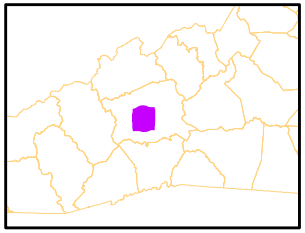
251 - 500

501 - 750

751 - 1069

LAND OF SKY REGIONAL COUNCIL

FRENCH BROAD RIVER METROPOLITAN PLANNING ORGANIZATION



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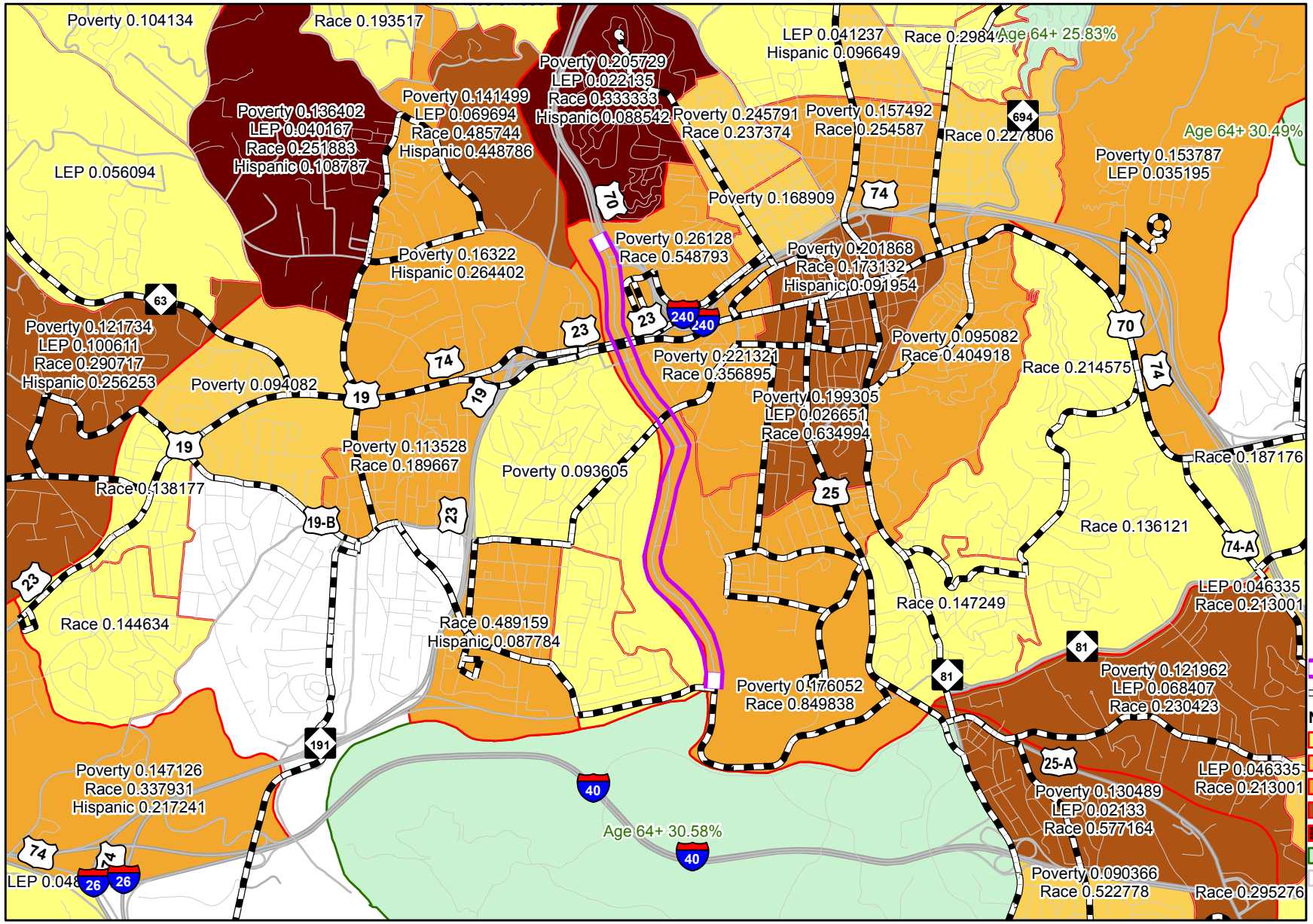
CTP/MTP: BUNC21a-H | SPOT3: H090515 | STIP: U-5019 | CMP?

STATUS: DRAFT STIP

2010 CENSUS BLOCK GROUP
FBRMPO EJ REVIEW



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Generated by LOSRC: 5/29/2015

Environmental Justice (EJ) grew out of the Civil Rights movement, and recognizes the need to spread the benefit and harm of transportation investments equitably. Past investments disproportionately impacted poor and minority communities in harmful ways; FBRMPO and partners at NCDOT and FHWA seek to ensure that future investments are fair and equitable to all.

Project
AshevilleTransitRoutes

Number of Variable Triggered

1
2
3
4
5
Only Triggers 65+ Age 75th Percentile
CBG-No EJ Triggered

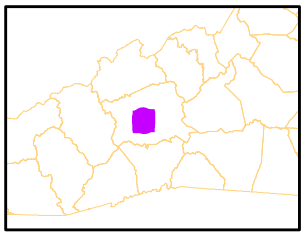
EJ Benefit/Harm Index Total= 3

ACCESSIBILITY: Transit Travel Times & Quality of Service	0	SAFETY: High Bike/Ped Crash Locations	0
Connectivity of Network	1	CPTED	0
Bike/Ped Crossings and Connections	1	Add Shoulder or Bike Lane	1
LOCAL ENVIRONMENT: Air Quality	0	SOCIAL EQUITY: Displace EJ Homes/Business?	0
Noise	0	Increase Freight	0

N

Feet

0 1,250 2,500



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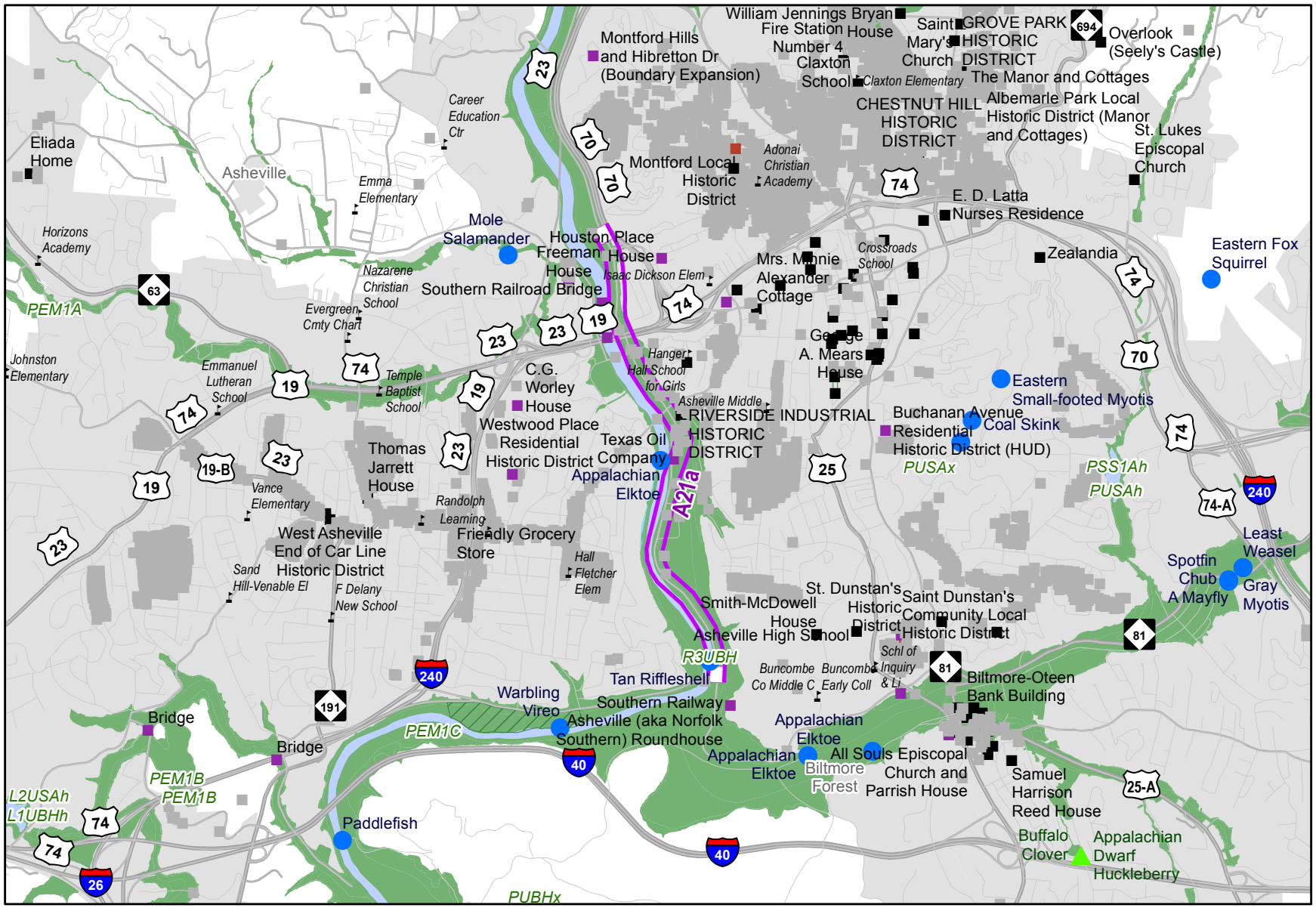
NATURAL AND CULTURAL RESOURCES MAP



Feet

0 1,250 2,500

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Generated by LOSRC: 6/19/2015

This map includes basic natural features from the NC Significant Natural Heritage inventory and the SHPO inventory of Historic Places. It is set on a backdrop of flood zones and managed/ protected lands.

N

Environmental Occurences
- Plant
- Animal
- Animal Assemblage
- Natural Community

Historic Assets Aug 2013
- BF
- DOE; DOED; DOEHD
- Local Designation
- National Register
- State Listed/Studied

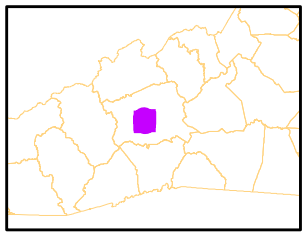
- Project
- County Boundary
- Federal
- State
- Local
- Private

CLASS
- WS-I; WS-I ORW
- WS-II; WS-II CA NSW; WS-II NSW
- WS-III; WS-III NSW
- WS-IV; WS-IV CA; WS-IV NSW

- NWI-PUBHh (Farm Ponds) Not Included
- 100 Year Flood
- Major Hydrography
- Municipal Boundaries
- School Locations

LAND OF SKY REGIONAL COUNCIL

FRENCH BROAD RIVER METROPOLITAN PLANNING ORGANIZATION
A PROGRAM OF LAND OF SKY

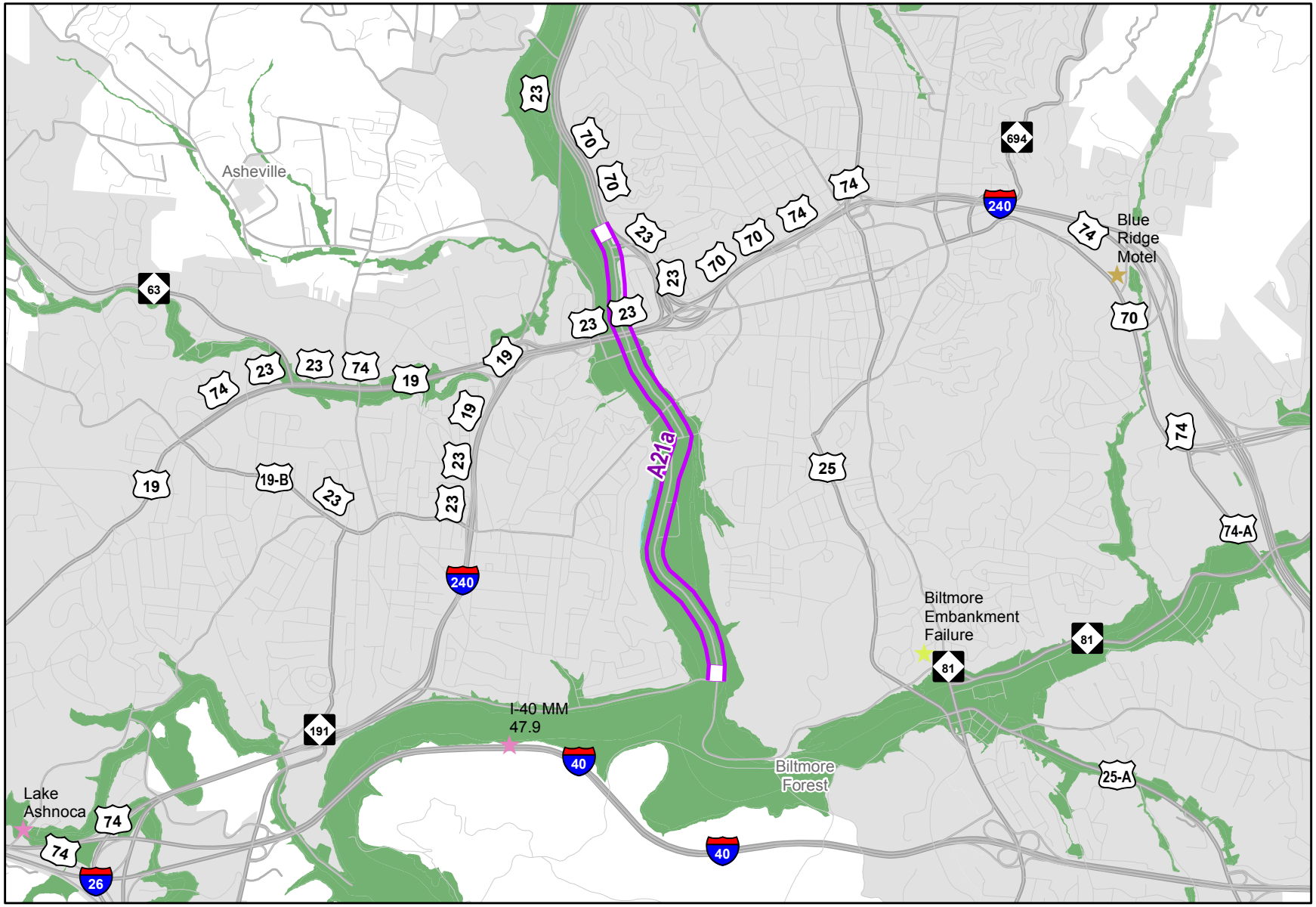


WILMA DYKEMAN RIVERWAY PH 1

CTP/MTP: BUNC21a-H | SPOT3: H090515 | STIP: U-5019 | CMP?

STATUS: DRAFT STIP

NATURAL AND OTHER HAZARDS MAP



Feet

0 1,250 2,500

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Generated by LOSRC: 4/22/2015

Natural Hazards that affect transportation infrastructure include floods, geologic events, and wildfires. This map shows the FEMA flood zones with historic occurences of wildfire and slope failures, along with major geologic fault lines.

N

Project
County Boundary

CAUSE
- Unknown
- Human
- Natural

Slide Type
- Composite
- Creep
- Debris Flow
- Debris Slide
- Debris Slide-Flow
- Earth Slide
- Other - Subsidence
- Rock Fall
- Rock Slide
- Rock Slide/Fall
- Weathered-rock slide
- block field
- block field with outcrop
- block stream
- block stream/field
- colluvial hollow
- colluvium undiff
- composite debris fan
- debris fan
- other-combination
- talus

- Geologic Faults
- 100 Year Flood
- Major Hydrography
- Municipal Boundaries

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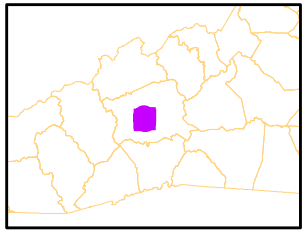
FRENCH BROAD RIVER METROPOLITAN PLANNING ORGANIZATION