
FIGURES



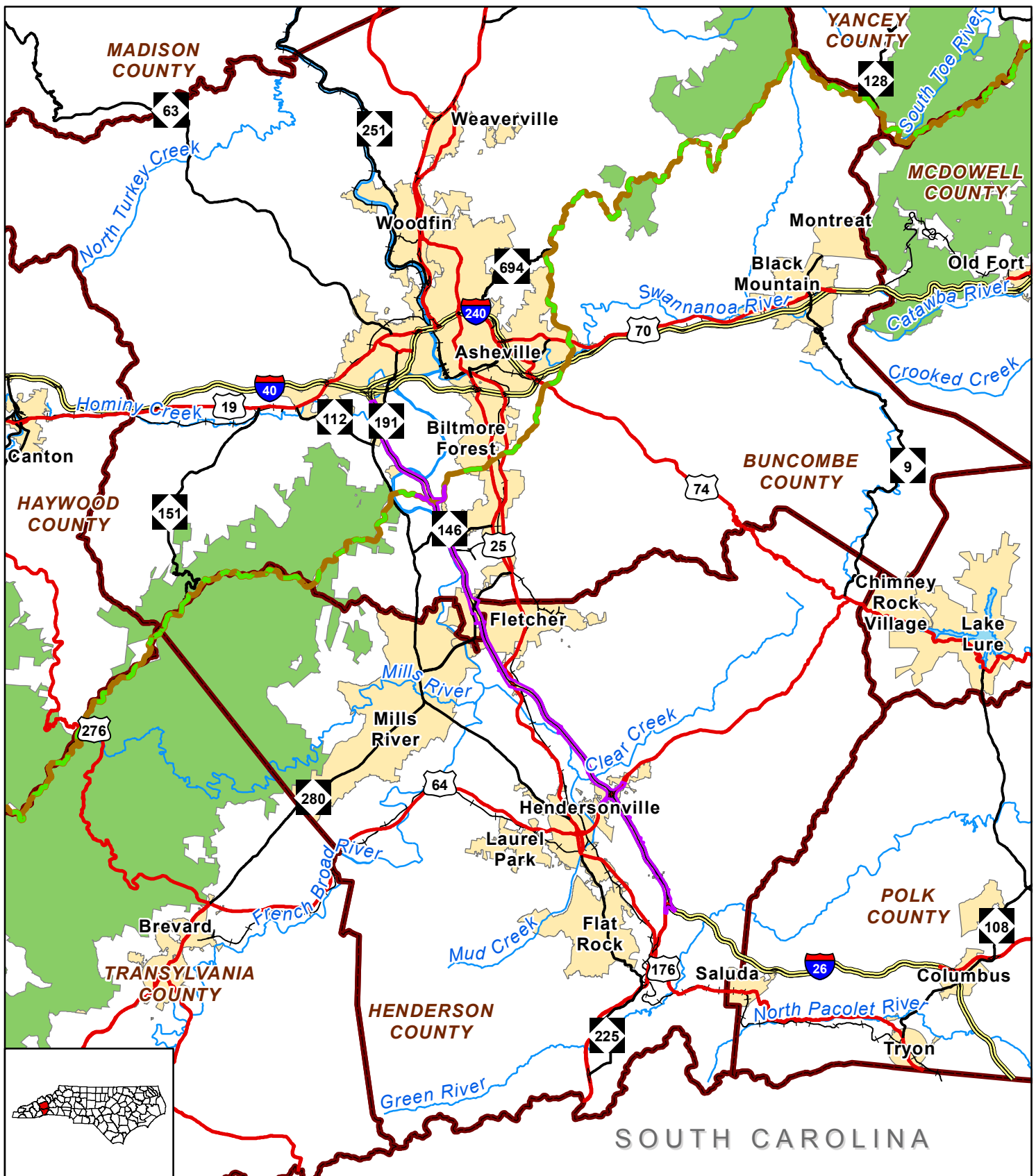


Figure 1 - Vicinity Map
STIP Project No. I-4400/I-4700
I-26 Widening
Buncombe and Henderson Counties

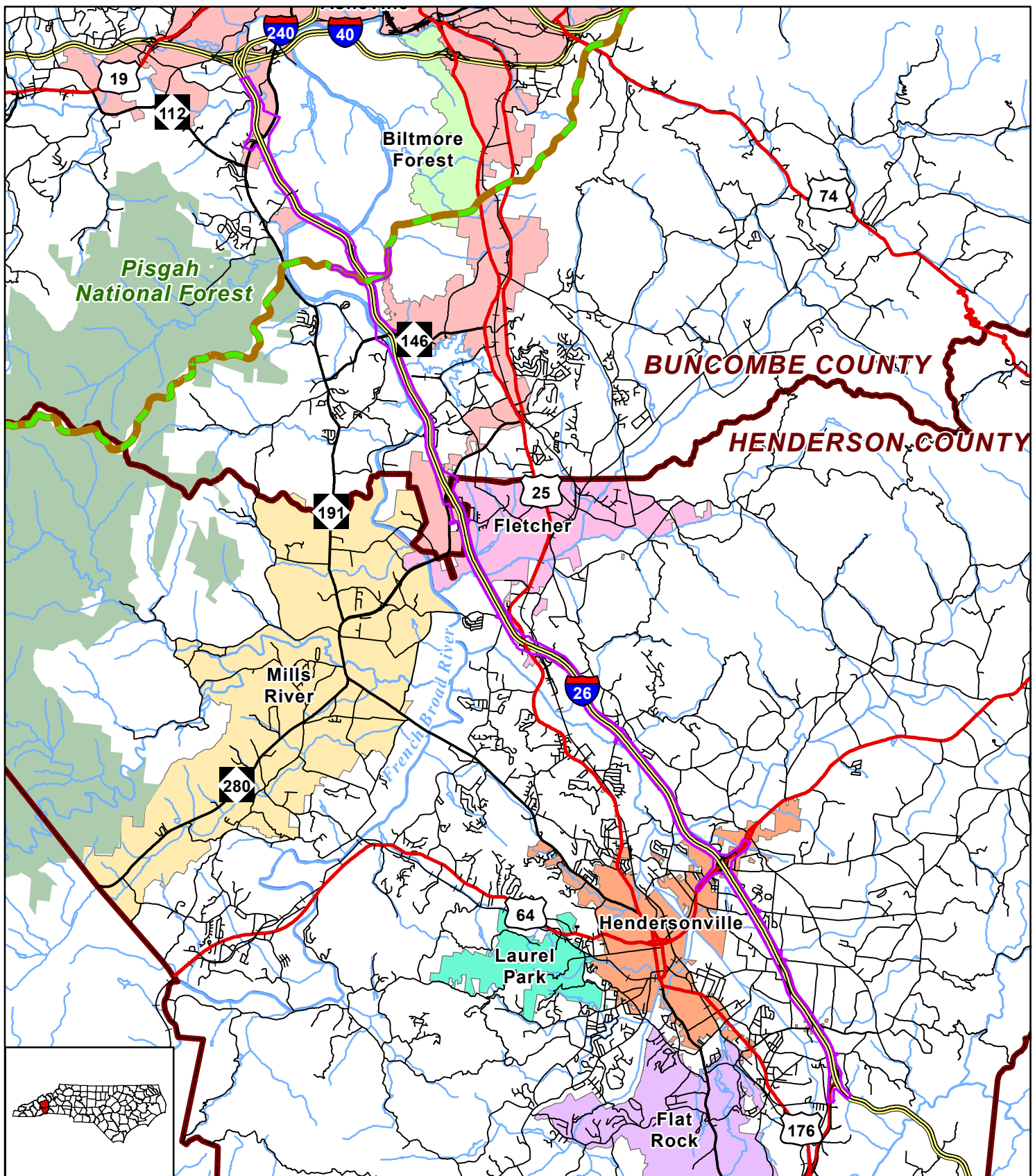
Legend

- | | |
|--|--|
|  Study Area |  Stream |
|  Interstate |  Water Body |
|  US Route |  Pisgah National Forest |
|  State Route |  County Boundary |
|  Blue Ridge Parkway |  Municipal Boundary |
|  Railroad | |

0 2.5 5 10
 Miles
 1 inch = 5 miles

Sources: NCDOT, NCOneMap, NPS, and HNTB

Date: 2016



Legend

- Study Area
- Interstate
- US Route
- NC Route
- Secondary Road

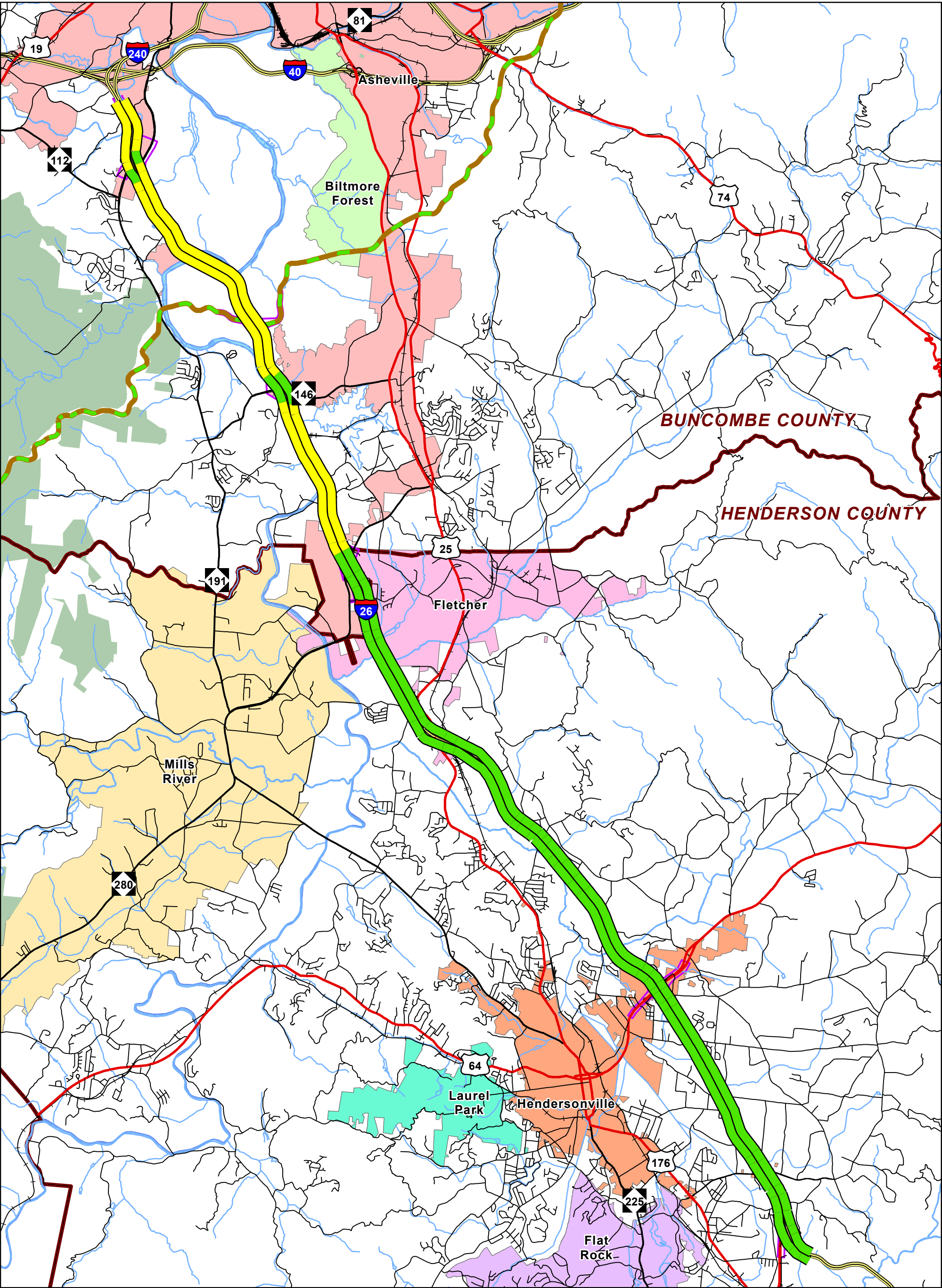
- Blue Ridge Parkway
- Railroad
- Stream
- Water Body
- County Boundary

Figure 2 - Study Area
STIP Project No. I-4400/I-4700
I-26 Widening
Buncombe and Henderson Counties

0 1.25 2.5 5
Miles
1 inch = 2.5 miles

Sources: NCDOT, NCOneMap, HNTB

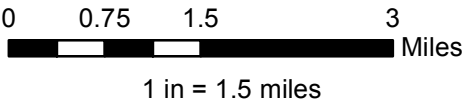
Date: 2016

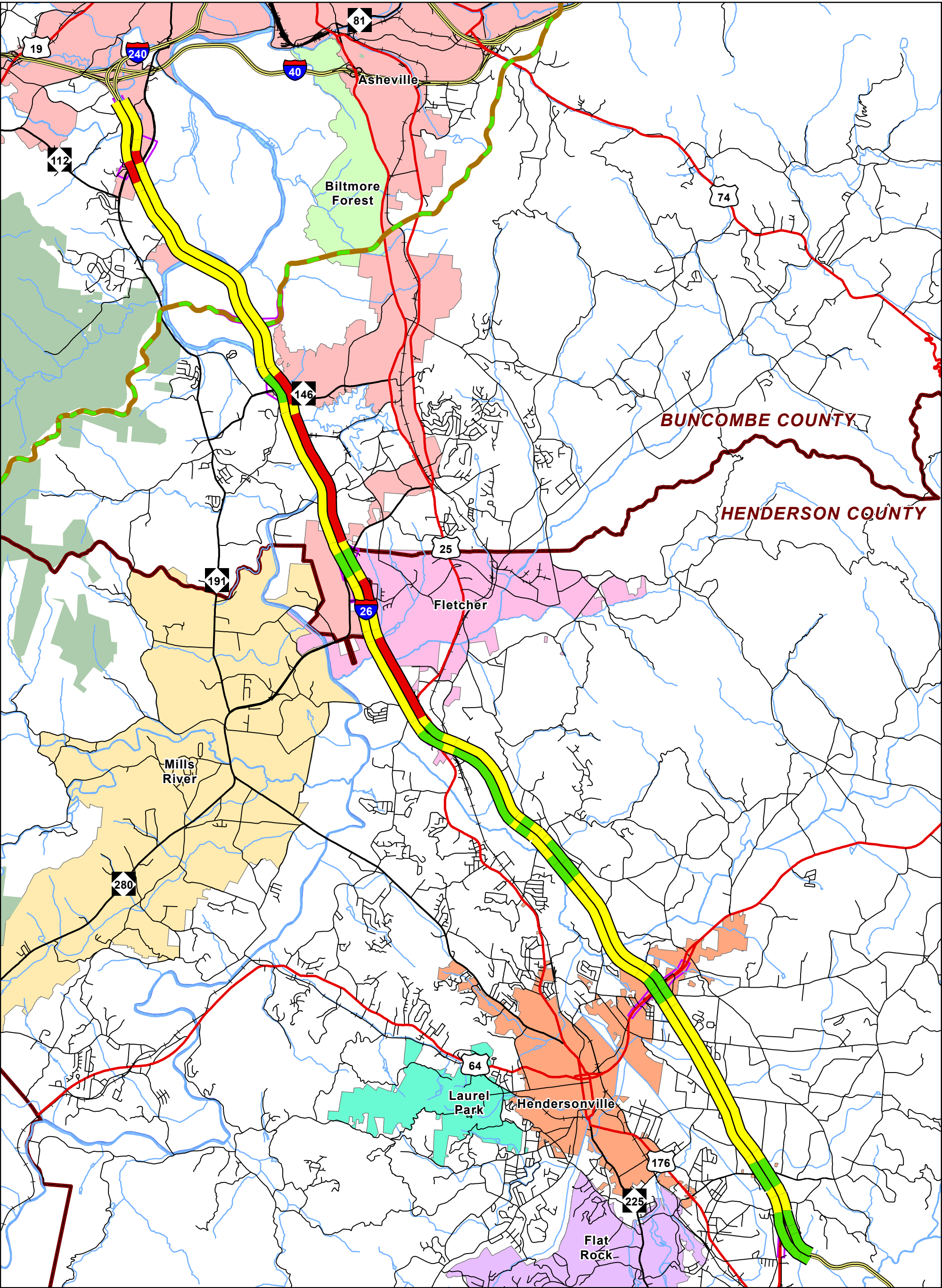


Legend

- | | | |
|---|--|---|
|  Study Area |  US Route |  Stream |
|  LOS D or Better |  State Route |  Water Body |
|  LOS E |  Secondary Road |  County Boundary |
|  Interstate |  Blue Ridge Parkway |  Pisgah National Forest |
|  Railroad | | |

Figure 3A - 2011 No-Build Freeway Level of Service (LOS)
STIP Project No. I-4400/I-4700
I-26 Widening
Buncombe and Henderson Counties

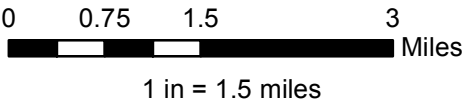


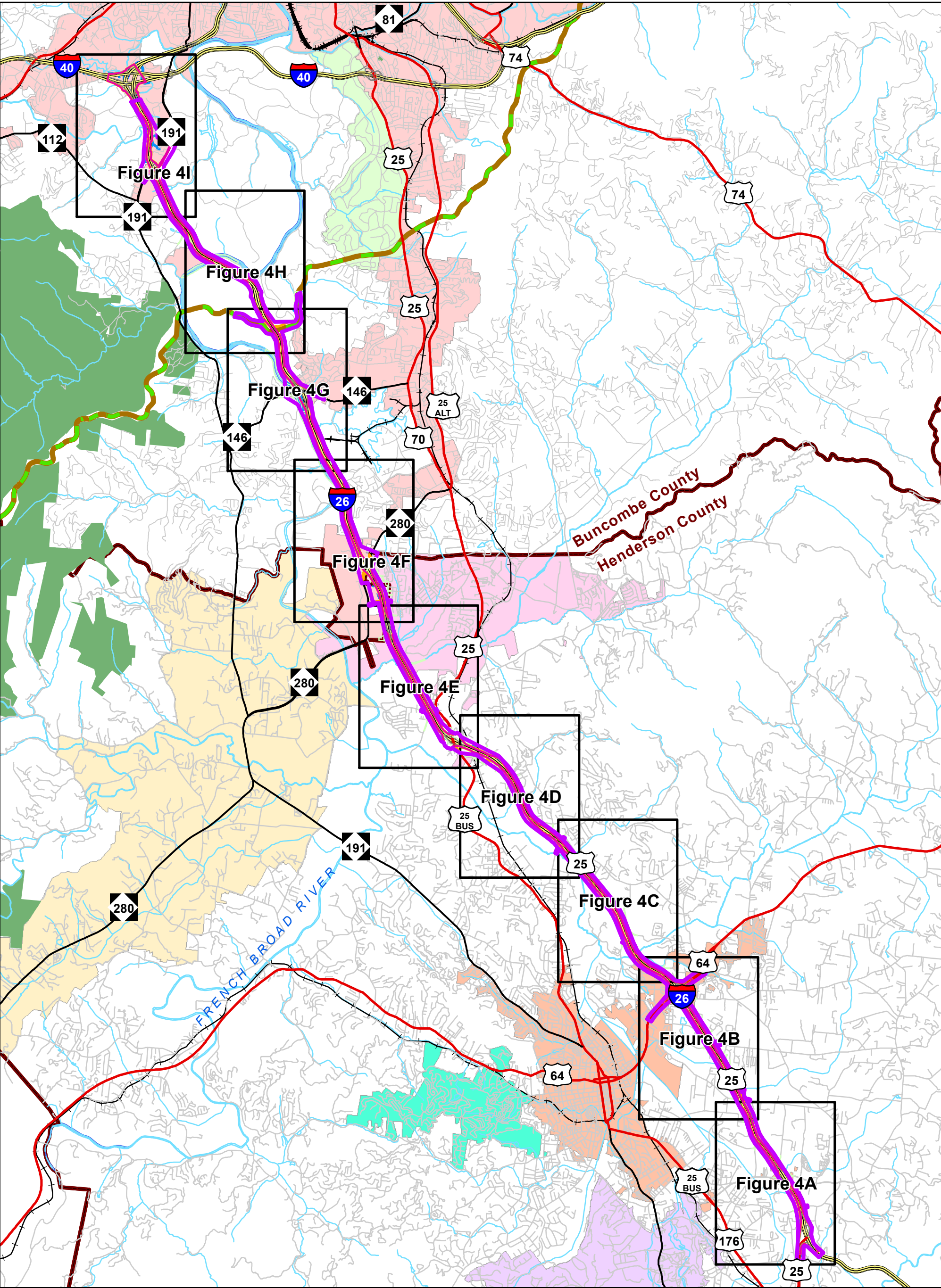


Legend

- | | | |
|---|--|---|
|  Study Area |  US Route |  Stream |
|  LOS D or Better |  State Route |  Water Body |
|  LOS E |  Secondary Road |  County Boundary |
|  LOS F |  Blue Ridge Parkway |  Pisgah National Forest |
|  Interstate |  Railroad | |

Figure 3B - 2040 No-Build Freeway Level of Service (LOS)
STIP Project No. I-4400/I-4700
I-26 Widening
Buncombe and Henderson Counties

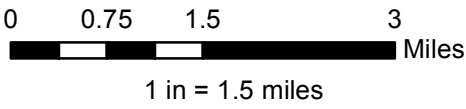


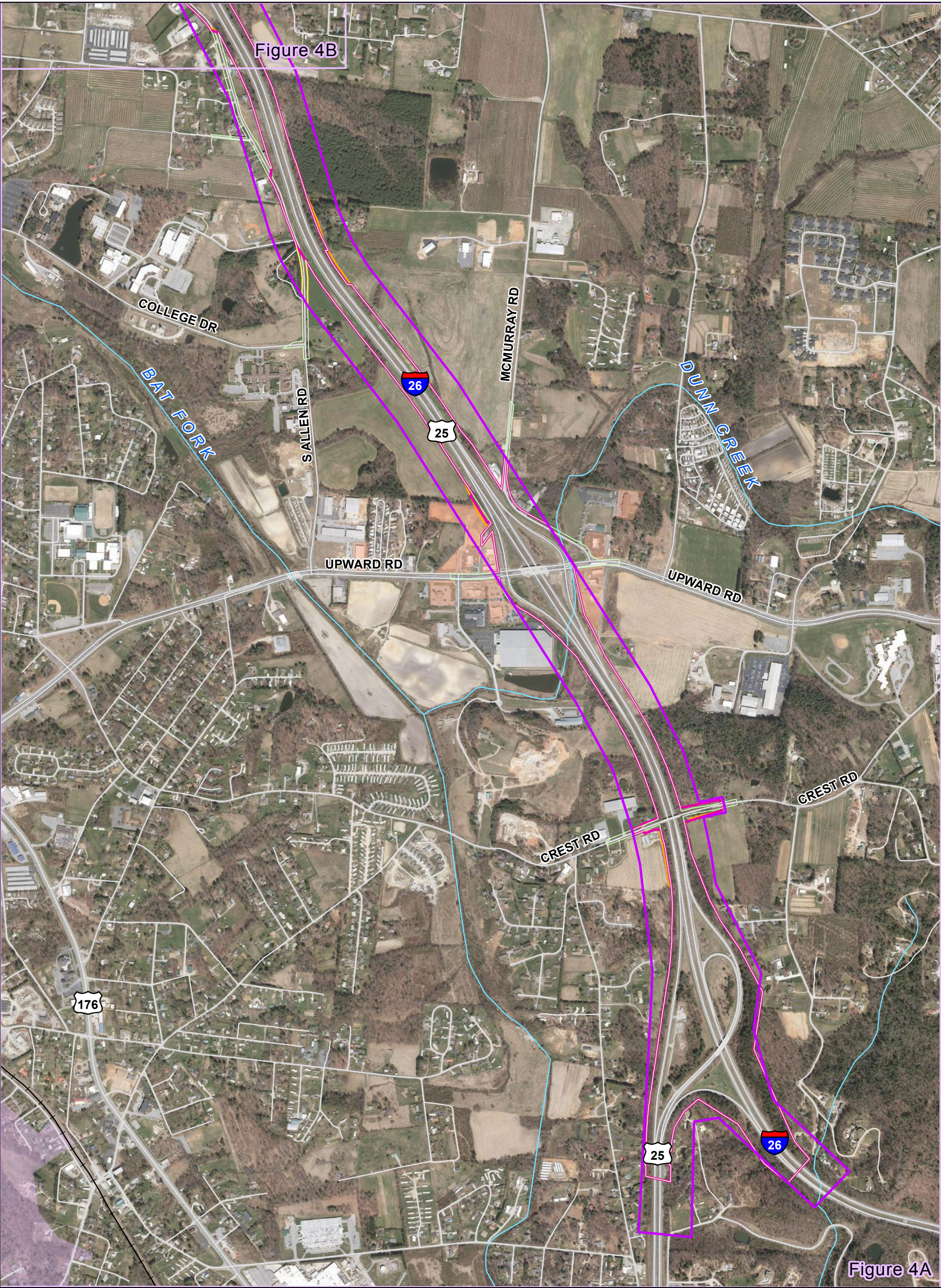


Legend

- | | | |
|---------------------------------|-----------------|----------------|
| I-4400/I-4700 Study Corridor | Railroad | Fletcher |
| Existing ROW | Stream | Hendersonville |
| 6-Lane Alternative Right of Way | County Boundary | Laurel Park |
| 8-Lane Alternative Right of Way | Asheville | Mills River |
| Road | Biltmore Forest | Saluda |
| Blue Ridge Parkway | Flat Rock | |

**Figure 4 - 6- and 8-Lane Alternatives
STIP Project No. I-4400/I-4700
I-26 Widening
Buncombe and Henderson Counties**





Legend

 Study Area	 Blue Ridge Parkway	 Flat Rock
 Existing Right Of Way	 Stream	 Fletcher
 6-Lane Alternative Right of Way	 Water Body	 Hendersonville
 8-Lane Alternative Right of Way	 County Boundary	 Laurel Park
 Railroad	 Asheville	 Mills River
 Road	 Biltmore Forest	 Saluda

Figure 4A - 6 and 8-Lane Alternatives
STIP Project No. I-4400/I-4700
I-26 Widening
Buncombe and Henderson Counties

0 500 1,000 2,000
 Feet

1 inch = 1,000 feet

N

Sources: Buncombe and Henderson Counties, NCDOT, NCOneMap, HNTB Date: 2016

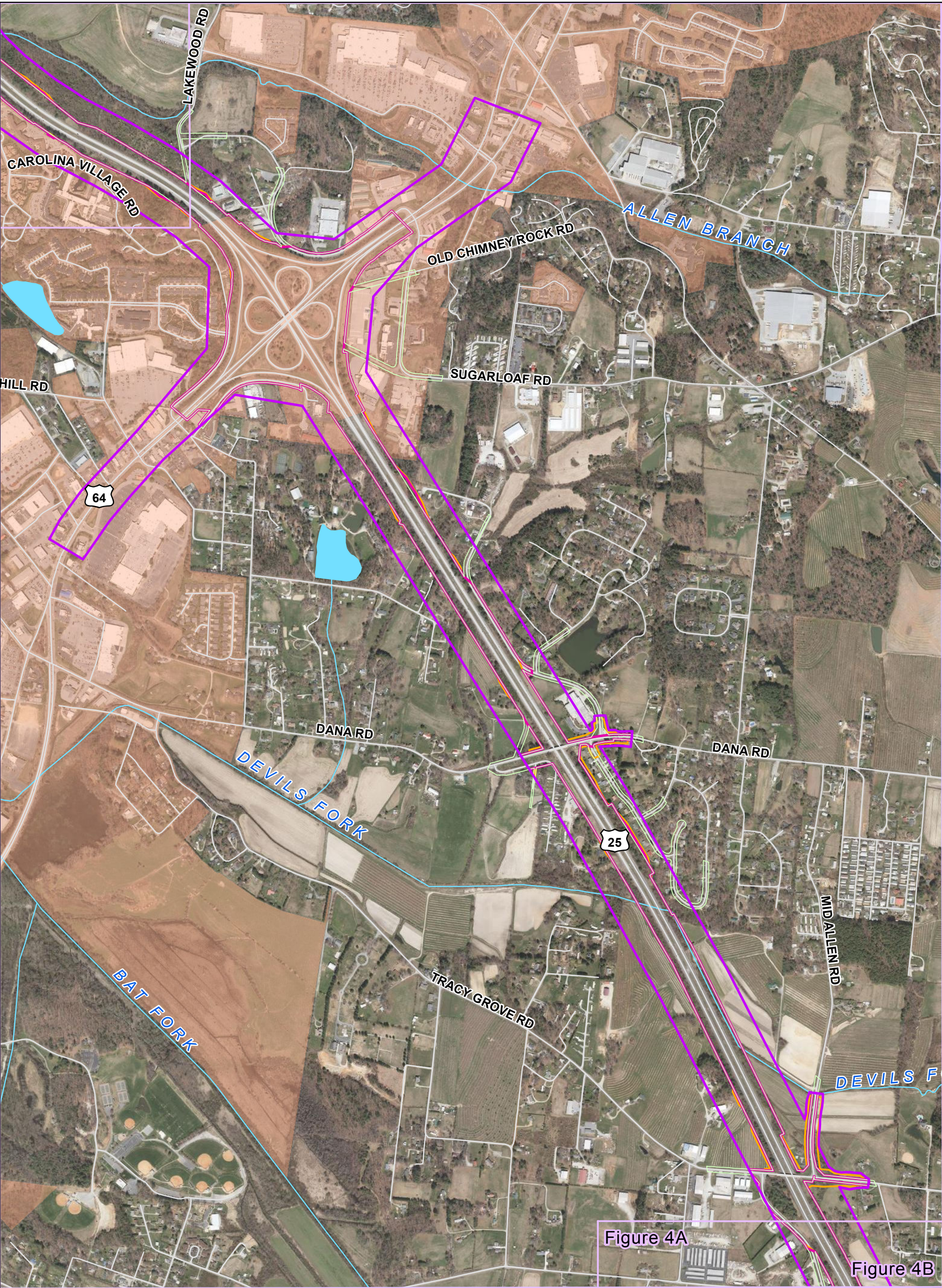


Figure 4A

Figure 4B



Legend

Study Area	Blue Ridge Parkway	Flat Rock
Existing Right Of Way	Stream	Fletcher
6-Lane Alternative Right of Way	Water Body	Hendersonville
8-Lane Alternative Right of Way	County Boundary	Laurel Park
Railroad	Asheville	Mills River
Road	Biltmore Forest	Saluda

Figure 4B - 6 and 8-Lane Alternatives
STIP Project No. I-4400/I-4700
I-26 Widening
Buncombe and Henderson Counties

0 500 1,000 2,000 Feet

1 inch = 1,000 feet

N

Figure 4C

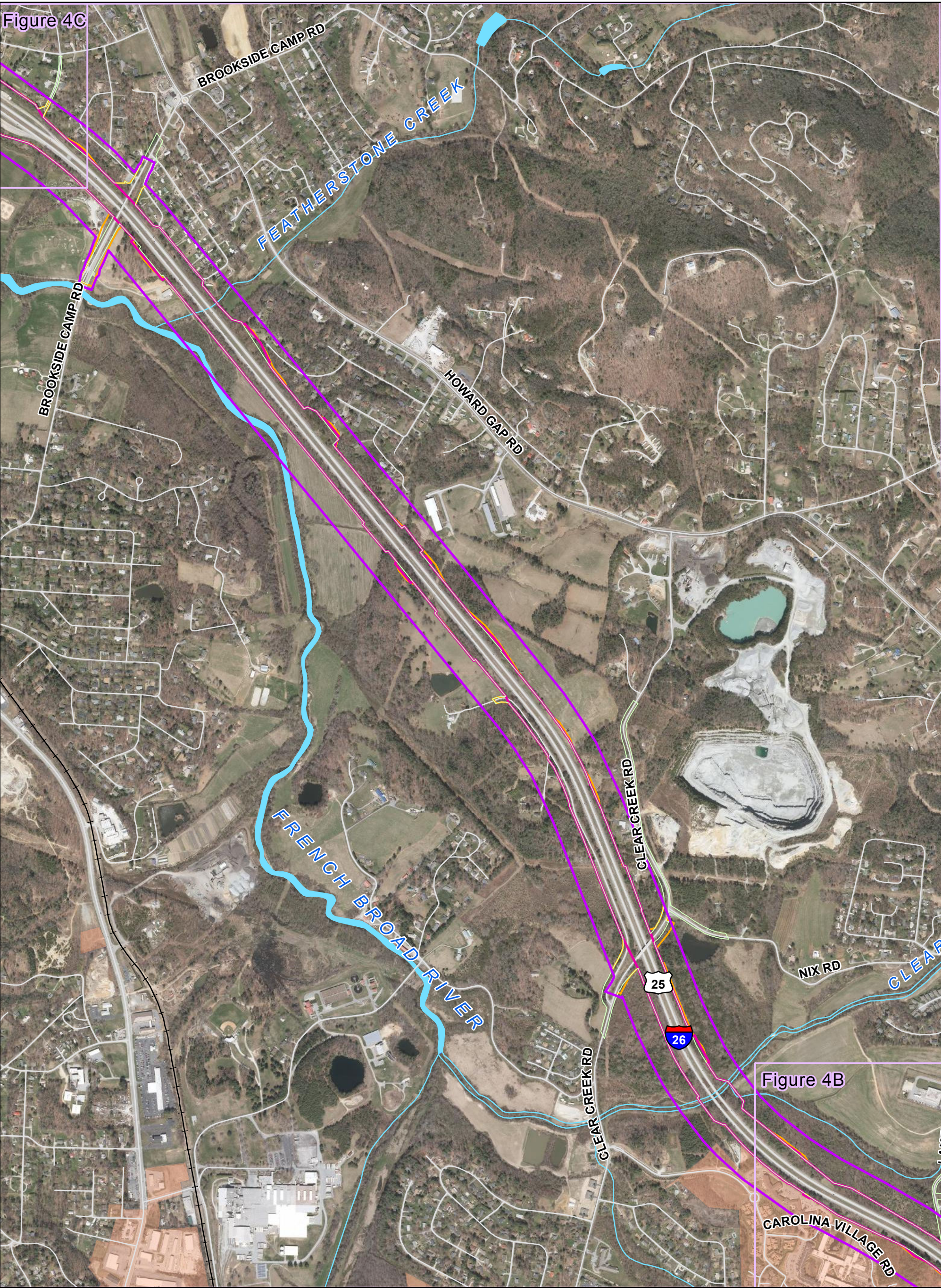
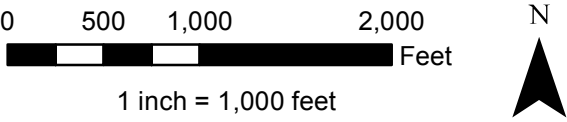


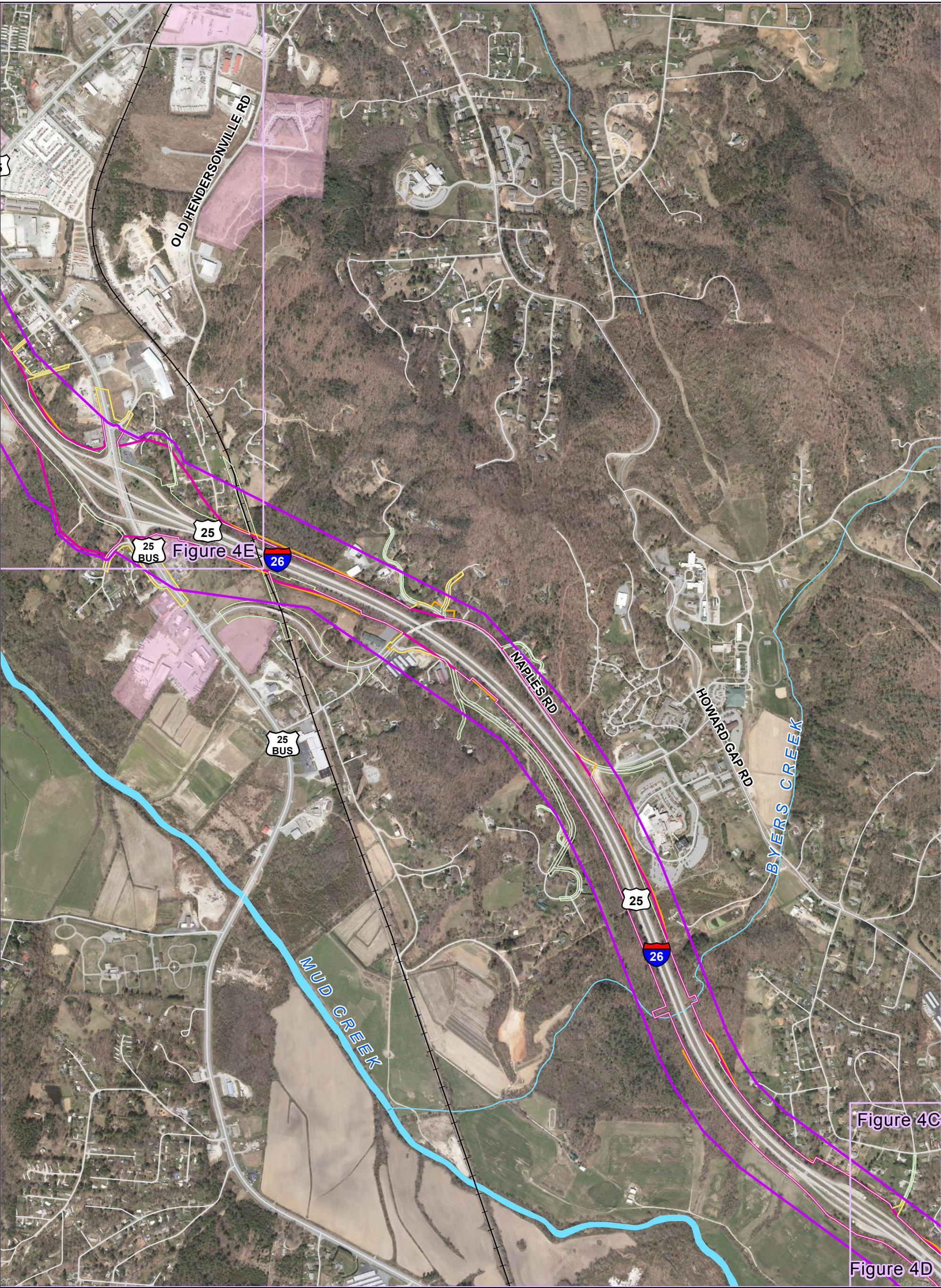
Figure 4B

Legend

- | | | |
|---------------------------------|--------------------|----------------|
| Study Area | Blue Ridge Parkway | Flat Rock |
| Existing Right Of Way | Stream | Fletcher |
| 6-Lane Alternative Right of Way | Water Body | Hendersonville |
| 8-Lane Alternative Right of Way | County Boundary | Laurel Park |
| Railroad | Asheville | Mills River |
| Road | Biltmore Forest | Saluda |

Figure 4C - 6 and 8-Lane Alternatives
STIP Project No. I-4400/I-4700
I-26 Widening
Buncombe and Henderson Counties

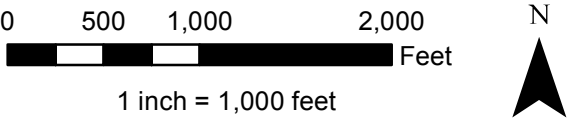


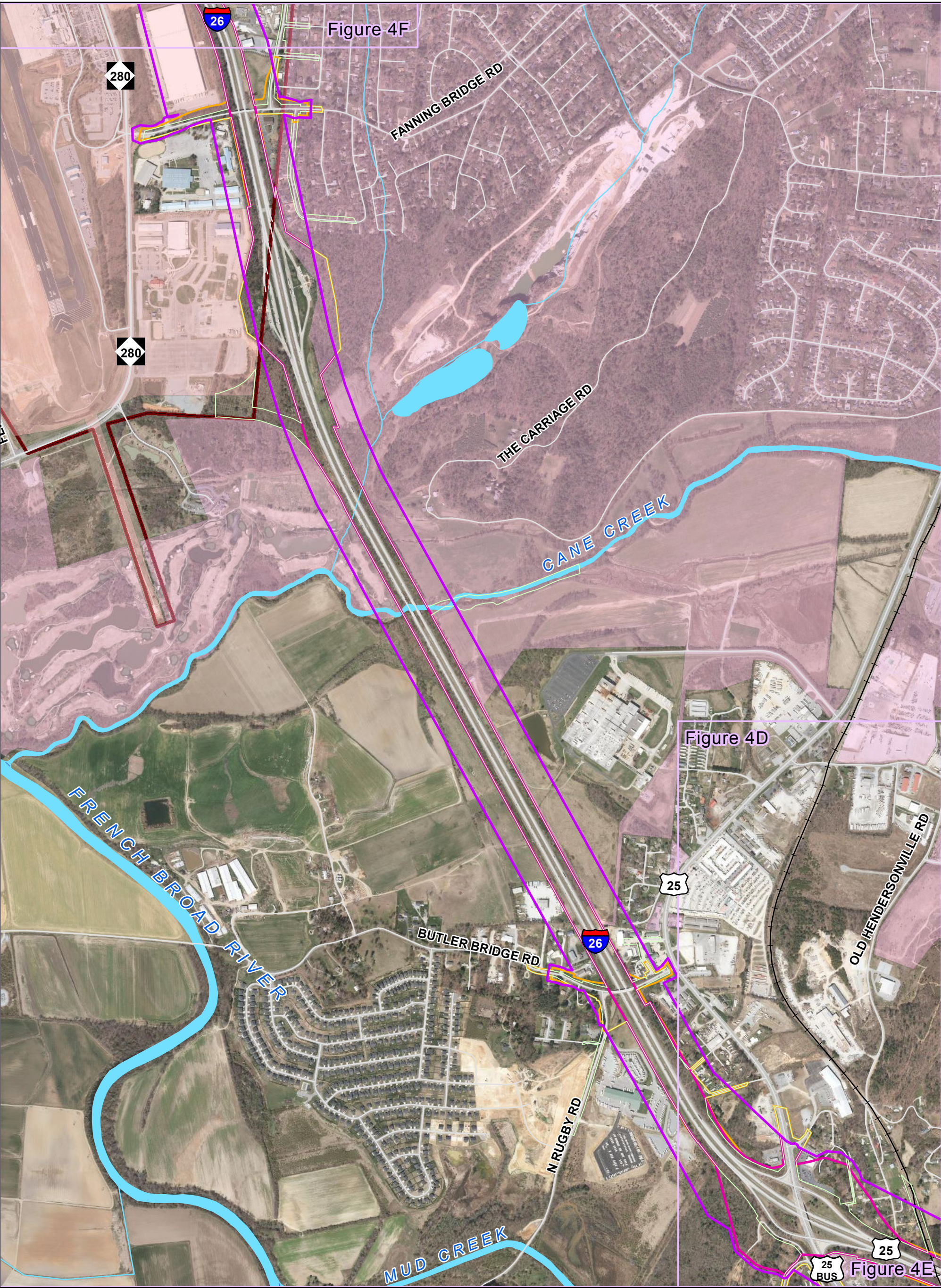


Legend

- | | | |
|---------------------------------|--------------------|----------------|
| Study Area | Blue Ridge Parkway | Flat Rock |
| Existing Right Of Way | Stream | Fletcher |
| 6-Lane Alternative Right of Way | Water Body | Hendersonville |
| 8-Lane Alternative Right of Way | County Boundary | Laurel Park |
| Railroad | Asheville | Mills River |
| Road | Biltmore Forest | Saluda |

Figure 4D - 6 and 8-Lane Alternatives
STIP Project No. I-4400/I-4700
I-26 Widening
Buncombe and Henderson Counties







Legend

Study Area	Blue Ridge Parkway	Flat Rock
Existing Right Of Way	Stream	Fletcher
6-Lane Alternative Right of Way	Water Body	Hendersonville
8-Lane Alternative Right of Way	County Boundary	Laurel Park
Railroad	Asheville	Mills River
Road	Biltmore Forest	Saluda

Figure 4E - 6 and 8-Lane Alternatives
STIP Project No. I-4400/I-4700
I-26 Widening
Buncombe and Henderson Counties

0 500 1,000 2,000 Feet

1 inch = 1,000 feet

N

Sources: Buncombe and Henderson Counties, NCDOT, NCOneMap, HNTB Date: 2016

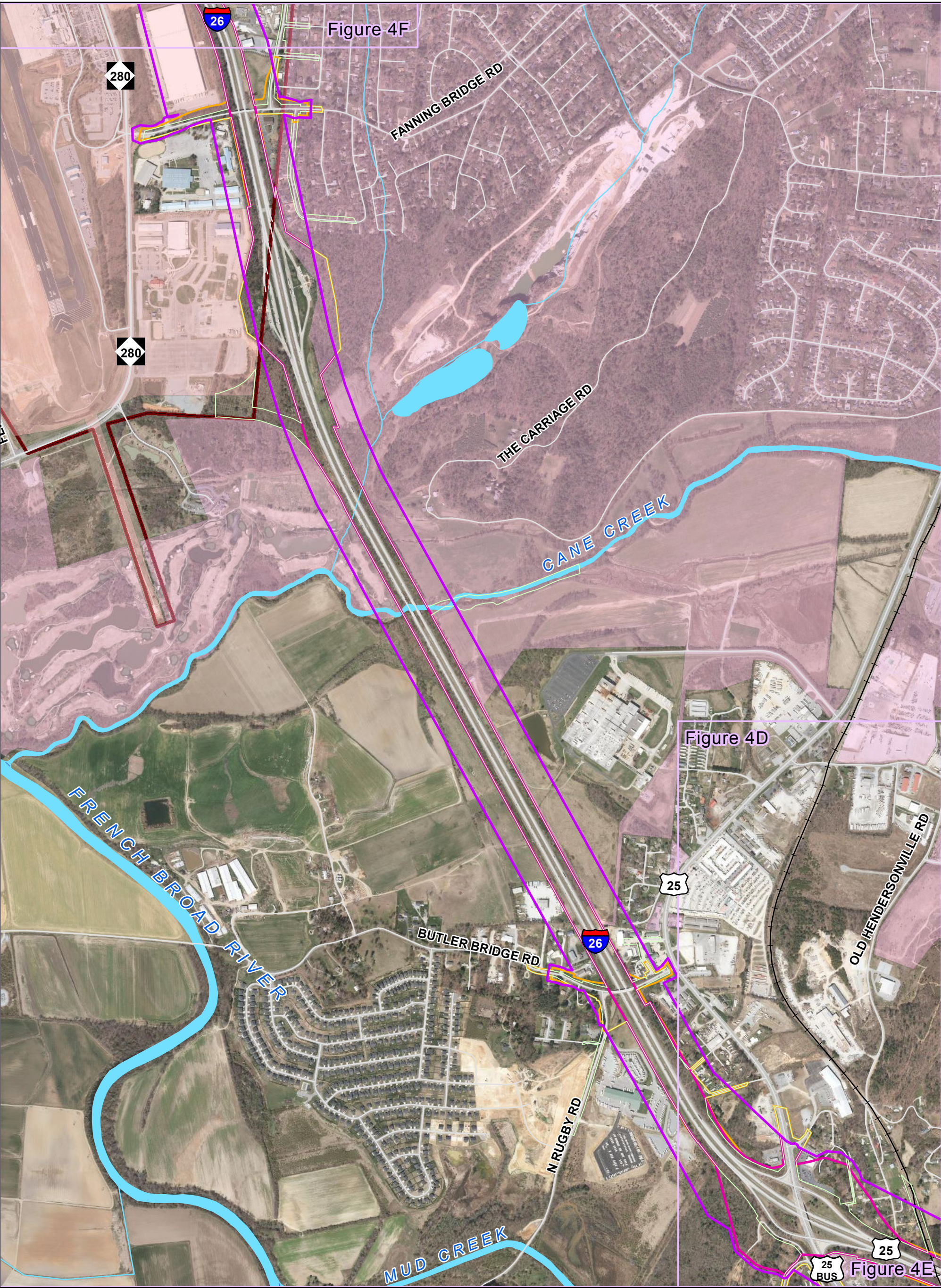


Figure 4F

Figure 4D

Figure 4E



Legend

Study Area	Blue Ridge Parkway	Flat Rock
Existing Right Of Way	Stream	Fletcher
6-Lane Alternative Right of Way	Water Body	Hendersonville
8-Lane Alternative Right of Way	County Boundary	Laurel Park
Railroad	Asheville	Mills River
Road	Biltmore Forest	Saluda

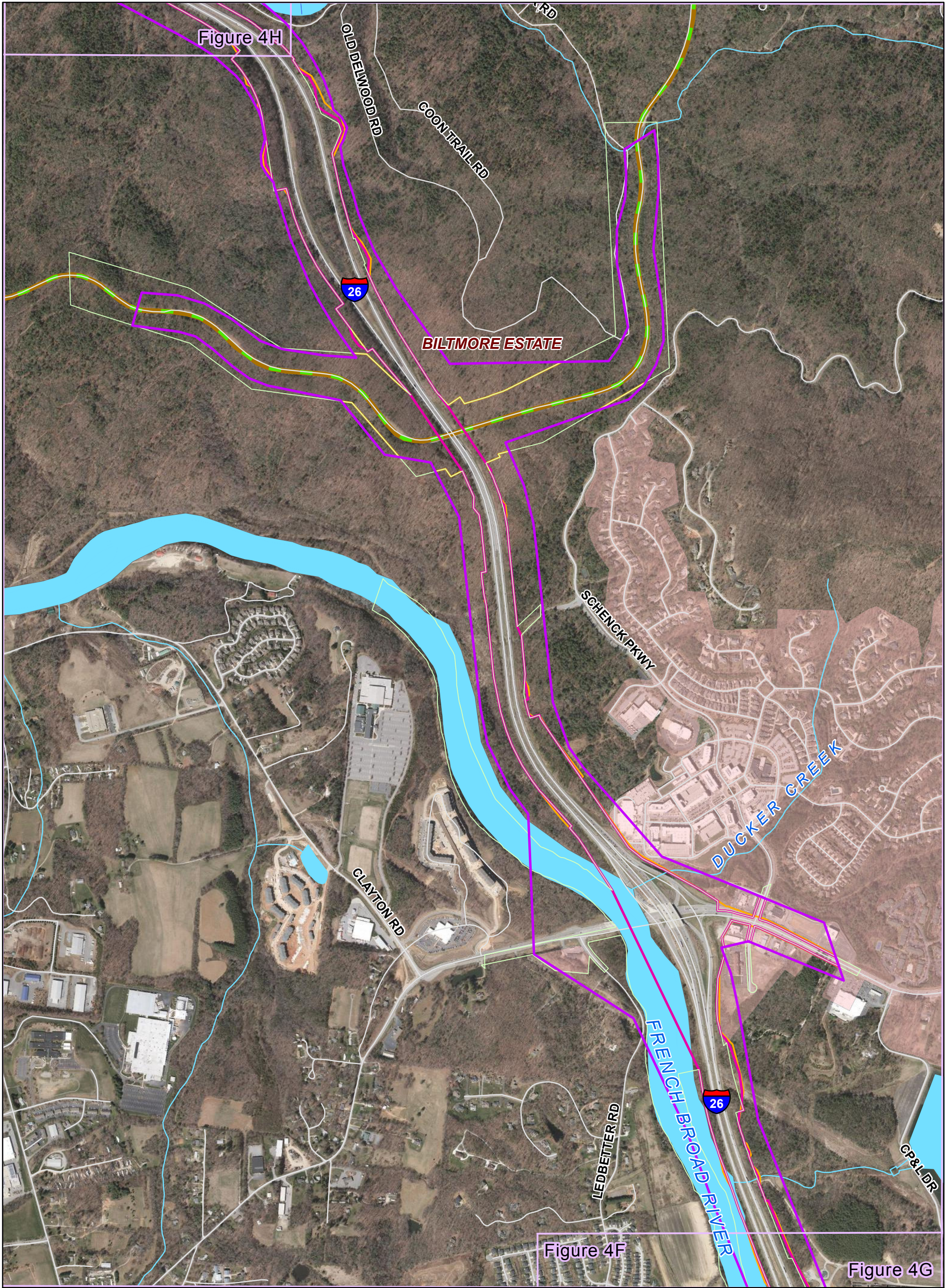
Figure 4E - 6 and 8-Lane Alternatives
STIP Project No. I-4400/I-4700
I-26 Widening
Buncombe and Henderson Counties

0 500 1,000 2,000 Feet

1 inch = 1,000 feet

N

Sources: Buncombe and Henderson Counties, NCDOT, NCOneMap, HNTB Date: 2016



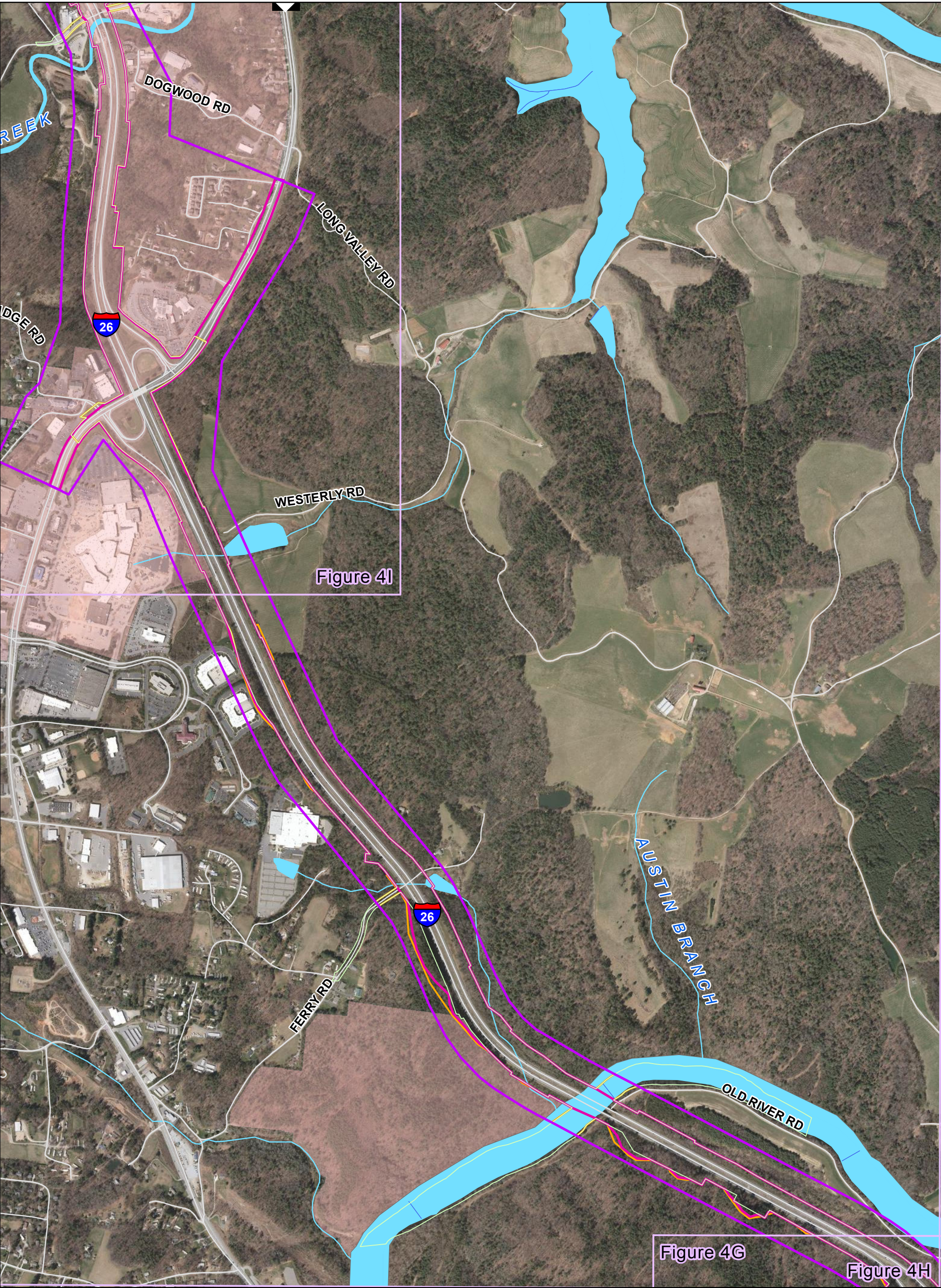
Legend

Study Area	Blue Ridge Parkway	Flat Rock
Existing Right Of Way	Stream	Fletcher
6-Lane Alternative Right of Way	Water Body	Hendersonville
8-Lane Alternative Right of Way	County Boundary	Laurel Park
Railroad	Asheville	Mills River
Road	Biltmore Forest	Saluda

Figure 4G - 6 and 8-Lane Alternatives
STIP Project No. I-4400/I-4700
I-26 Widening
Buncombe and Henderson Counties

0 500 1,000 2,000 Feet
1 inch = 1,000 feet

Sources: Buncombe and Henderson Counties, NCDOT, NCOneMap, HNTB Date: 2016



Legend

- | | | |
|---------------------------------|--------------------|----------------|
| Study Area | Blue Ridge Parkway | Flat Rock |
| Existing Right Of Way | Stream | Fletcher |
| 6-Lane Alternative Right of Way | Water Body | Hendersonville |
| 8-Lane Alternative Right of Way | County Boundary | Laurel Park |
| Railroad | Asheville | Mills River |
| Road | Biltmore Forest | Saluda |

**Figure 4H - 6 and 8-Lane Alternatives
STIP Project No. I-4400/I-4700
I-26 Widening
Buncombe and Henderson Counties**

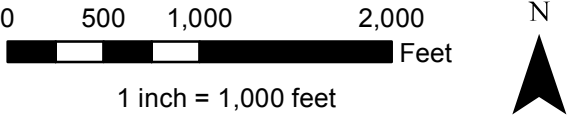




Figure 4I



Legend

Study Area	Blue Ridge Parkway	Flat Rock
Existing Right Of Way	Stream	Fletcher
6-Lane Alternative Right of Way	Water Body	Hendersonville
8-Lane Alternative Right of Way	County Boundary	Laurel Park
Railroad	Asheville	Mills River
Road	Biltmore Forest	Saluda

Figure 4I - 6 and 8-Lane Alternatives
STIP Project No. I-4400/I-4700
I-26 Widening
Buncombe and Henderson Counties

0 500 1,000 2,000 Feet

1 inch = 1,000 feet

N

Sources: Buncombe and Henderson Counties, NCDOT, NCOneMap, HNTB Date: 2016

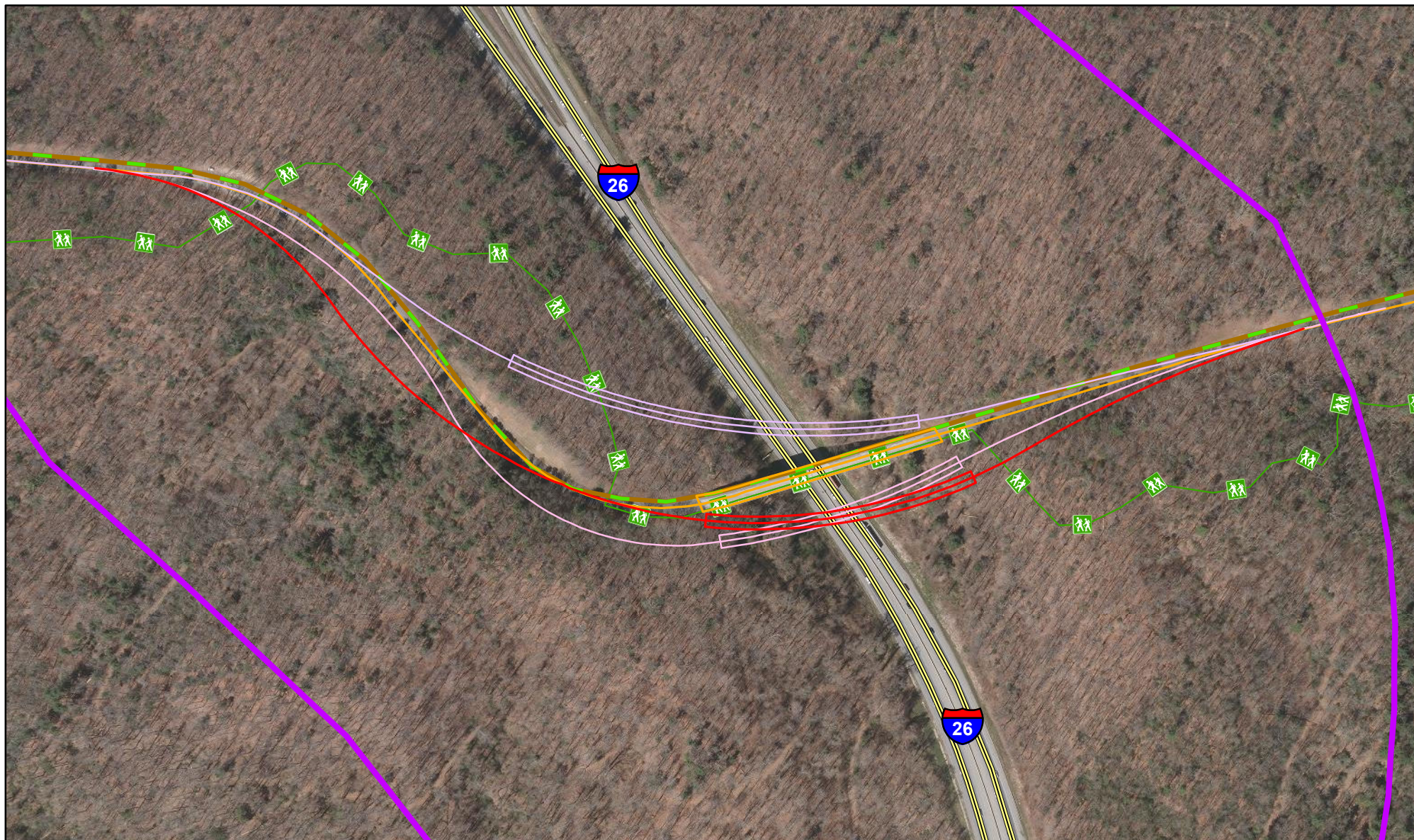


Figure 5 - Blue Ridge Parkway (BRP) Bridge Options
STIP Project No. I-4400/I-4700
I-26 Widening
Buncombe and Henderson Counties

Legend



Study Area



Blue Ridge Parkway (BRP)



Mountains-to-Sea Trail (MST)



Interstate



BRP Option 1



BRP Option 4
(NPS' Preferred)



BRP Option 5



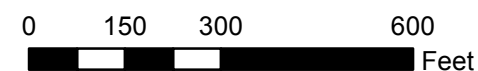
BRP Option 7



BRP Option 5

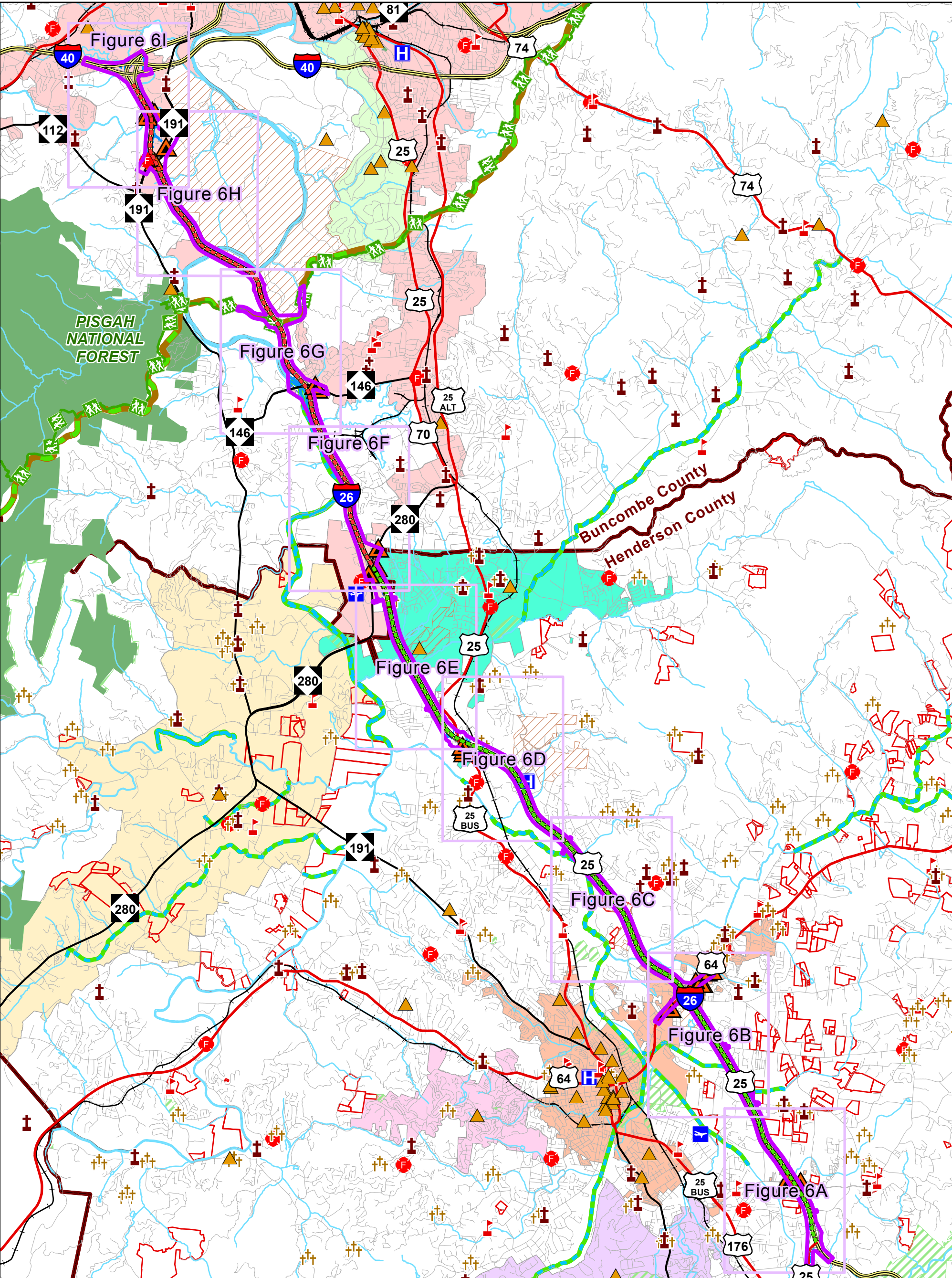


BRP Option 7



1 inch = 300 feet

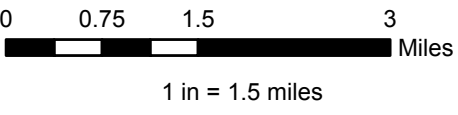


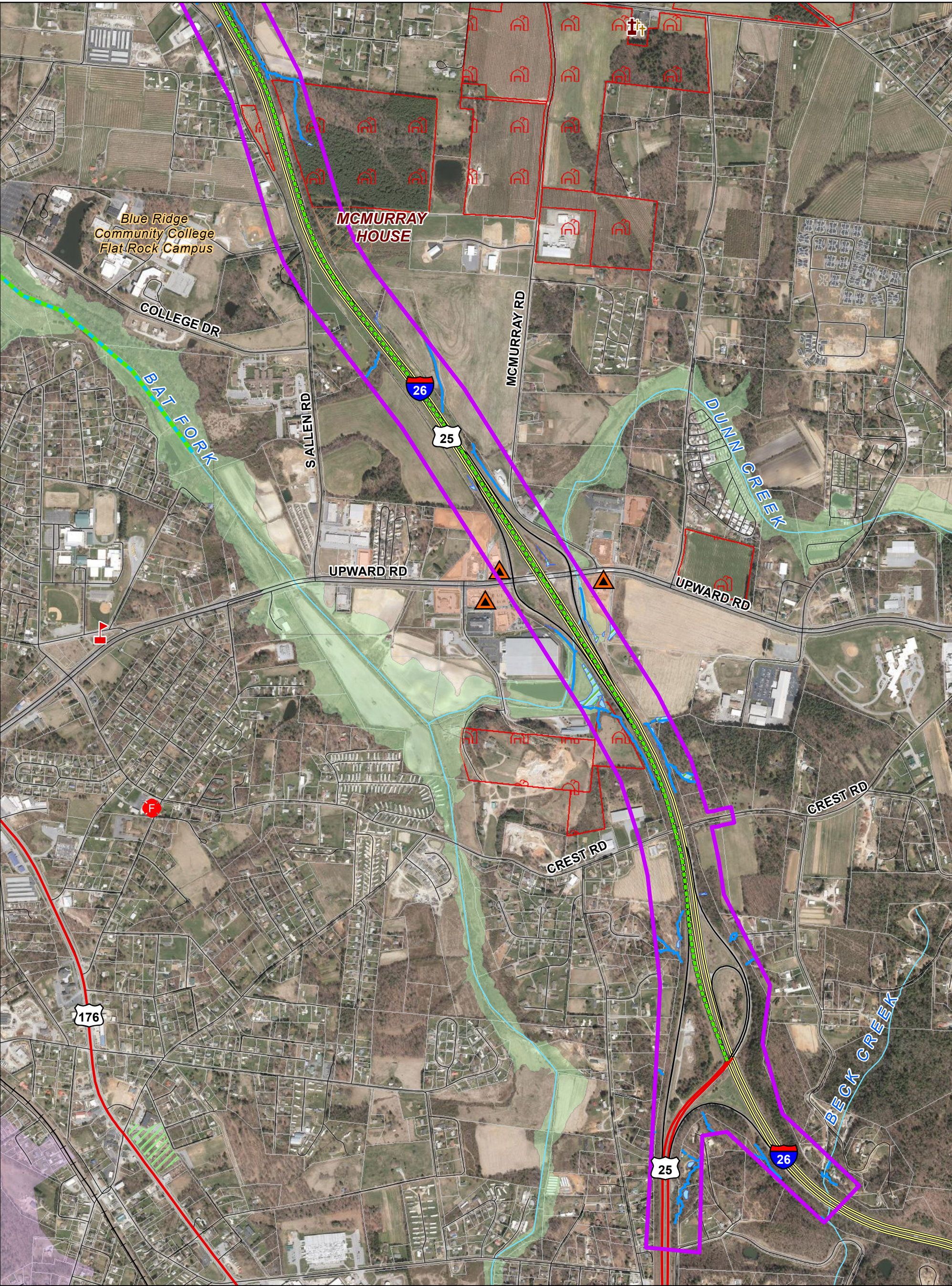


Legend

- | | | | |
|-----------------------------|------------------------|---|--------------------------------|
| Study Area | Fire Station | Delineated Stream | Voluntary Agriculture District |
| STIP Project No. I-4400 | Park Ridge Hospital | 303(d) List Stream | County Boundary |
| STIP Project No. I-4700 | Environmental Site | Stream | Asheville |
| Church | Interstate | Delineated Wetland | Biltmore Forest |
| Cemetery | US Highway | Delineated Pond | Flat Rock |
| School | NC Highway | Water Body | Fletcher |
| National Register Structure | Road | National Register of Historic Places Property | Hendersonville |
| Airport | Blue Ridge Parkway | Pisgah National Forest | Laurel Park |
| | Mountains-to-Sea Trail | Municipal Park | Mills River |
| | Railroad | | Saluda |

Figure 6 - Environmental Features
STIP Project No. I-4400/I-4700
I-26 Widening
Buncombe and Henderson Counties





Legend

Study Area

STIP Project I-4400

STIP Project I-4700

Church

Cemetery

School

National Register Structure

Airport

Fire Station

Park Ridge Hospital

Environmental Site

Interstate

US Highway

NC Highway

Road

Railroad

Blue Ridge Parkway

Mountains-to-Sea Trail

Bent Creek Lake Julian

Delineated Stream

303(d) List Stream

Stream

Delineated Wetland

Delineated Pond

Water Body

FEMA Flood Zone

Zone A, 100-year Floodplain

Zone AE, 100-year Floodplain

500-year Floodplain

National Register of Historic Places Property

Pisgah National Forest

Municipal Park

Voluntary Agriculture District

Property Boundary

County Boundary

Asheville

Biltmore Forest

Flat Rock

Fletcher

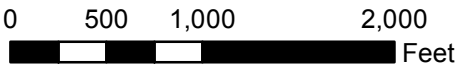
Hendersonville

Laurel Park

Mills River

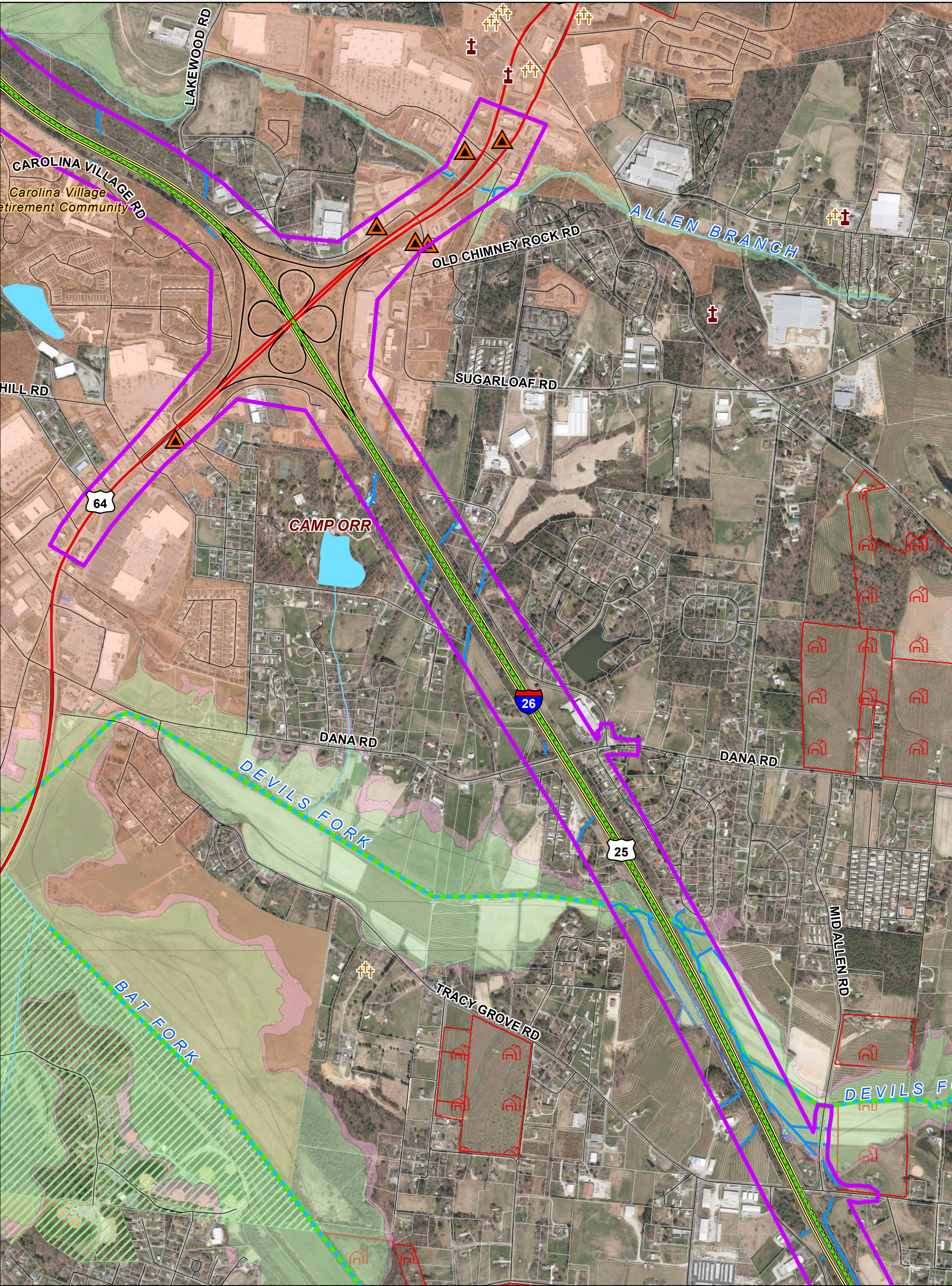
Saluda

Figure 6A - Environmental Features
STIP Project No. I-4400/I-4700
I-26 Widening
Buncombe and Henderson Counties



1 inch = 1,000 feet





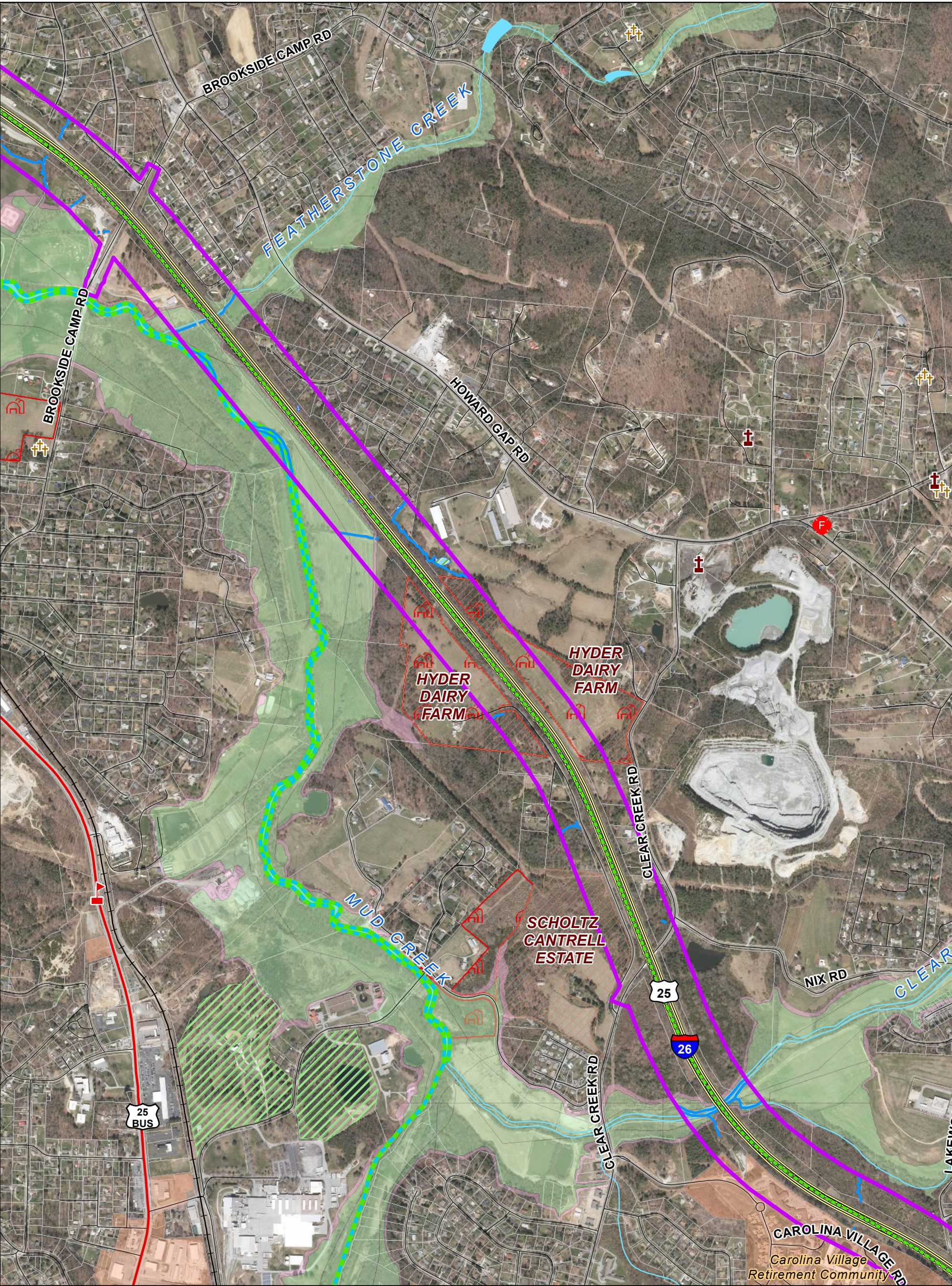
- Legend**
- | | | | |
|-----------------------------|---------------------|---|--------------------------------|
| Study Area | Fire Station | Bent Creek Lake Julian | Pisgah National Forest |
| STIP Project I-4400 | Park Ridge Hospital | Delineated Stream | Municipal Park |
| STIP Project I-4700 | Environmental Site | 303(d) List Stream | Voluntary Agriculture District |
| Church | Interstate | Stream | Property Boundary |
| Cemetery | US Highway | Delineated Wetland | County Boundary |
| School | NC Highway | Delineated Pond | Asheville |
| National Register Structure | Road | Water Body | Biltmore Forest |
| Airport | Railroad | FEMA Flood Zone | Flat Rock |
| Mountains-to-Sea Trail | Blue Ridge Parkway | Zone A, 100-year Floodplain | Fletcher |
| | | Zone AE, 100-year Floodplain | Hendersonville |
| | | 500-year Floodplain | Laurel Park |
| | | National Register of Historic Places Property | Mills River |
| | | | Saluda |

Figure 6B - Environmental Features
STIP Project No. I-4400/I-4700
I-26 Widening
Buncombe and Henderson Counties

0 500 1,000 2,000
Feet

1 inch = 1,000 feet

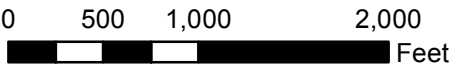




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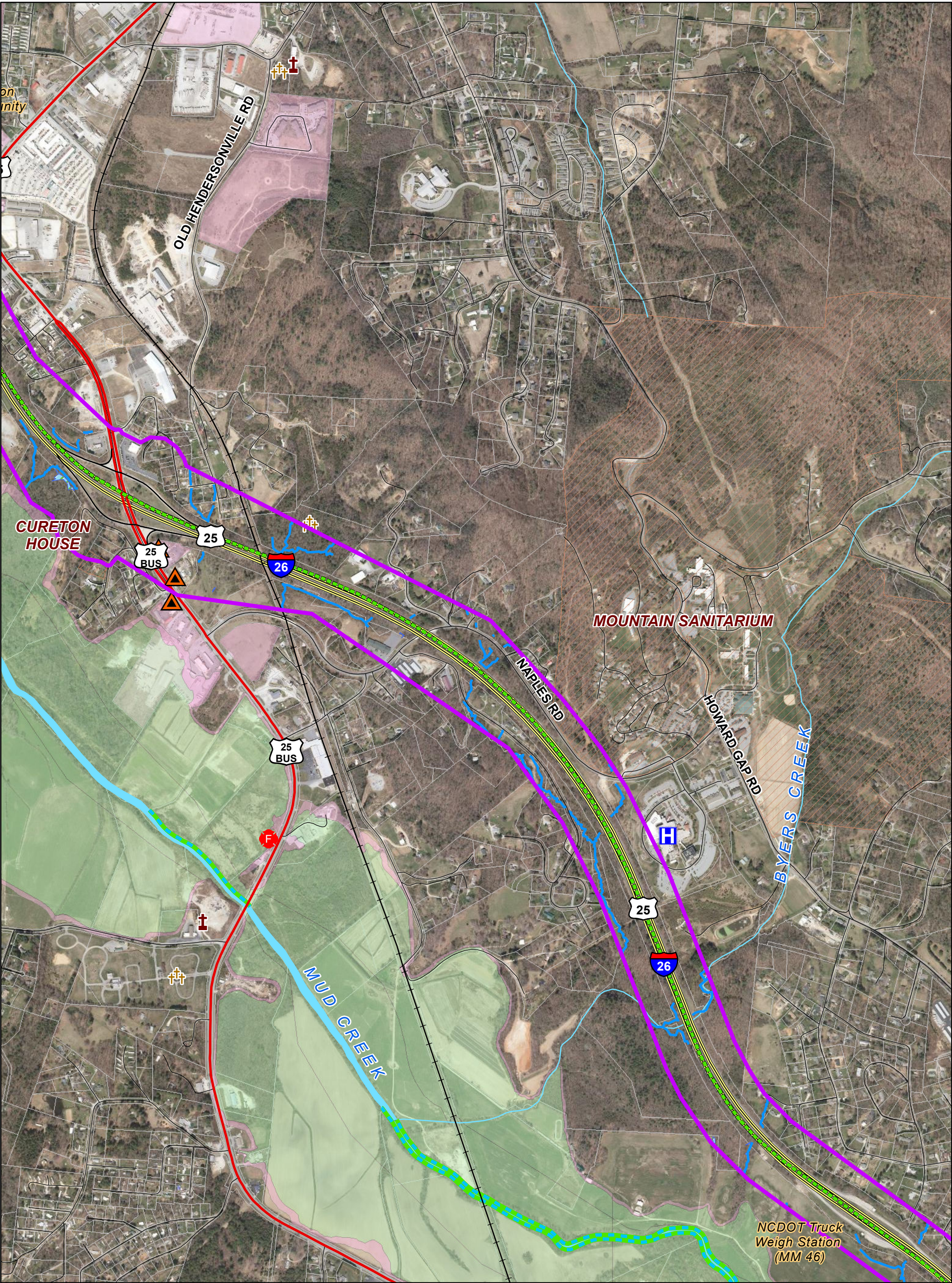
 - Study Area
 - STIP Project I-4400
 - STIP Project I-4700
 - Church
 - Cemetery
 - School
 - National Register Structure
 - Airport
 - Fire Station
 - Park Ridge Hospital
 - Environmental Site
 - Interstate
 - US Highway
 - NC Highway
 - Road
 - Railroad
 - Blue Ridge Parkway
 - Mountains-to-Sea Trail
 - Bent Creek Lake Julian
 - Greenway Preferred Alignment
 - Delineated Stream
 - 303(d) List Stream
 - Stream
 - Delineated Wetland
 - Delineated Pond
 - Water Body
 - FEMA Flood Zone
 - Zone A, 100-year Floodplain
 - Zone AE, 100-year Floodplain
 - 500-year Floodplain
 - National Register of Historic Places Property
 - Pisgah National Forest
 - Municipal Park
 - Voluntary Agriculture District
 - Property Boundary
 - County Boundary
 - Asheville
 - Biltmore Forest
 - Flat Rock
 - Fletcher
 - Hendersonville
 - Laurel Park
 - Mills River
 - Saluda

Figure 6C - Environmental Features
STIP Project No. I-4400/I-4700
I-26 Widening
Buncombe and Henderson Counties



1 inch = 1,010 feet

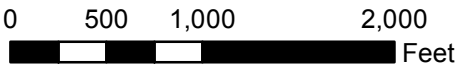




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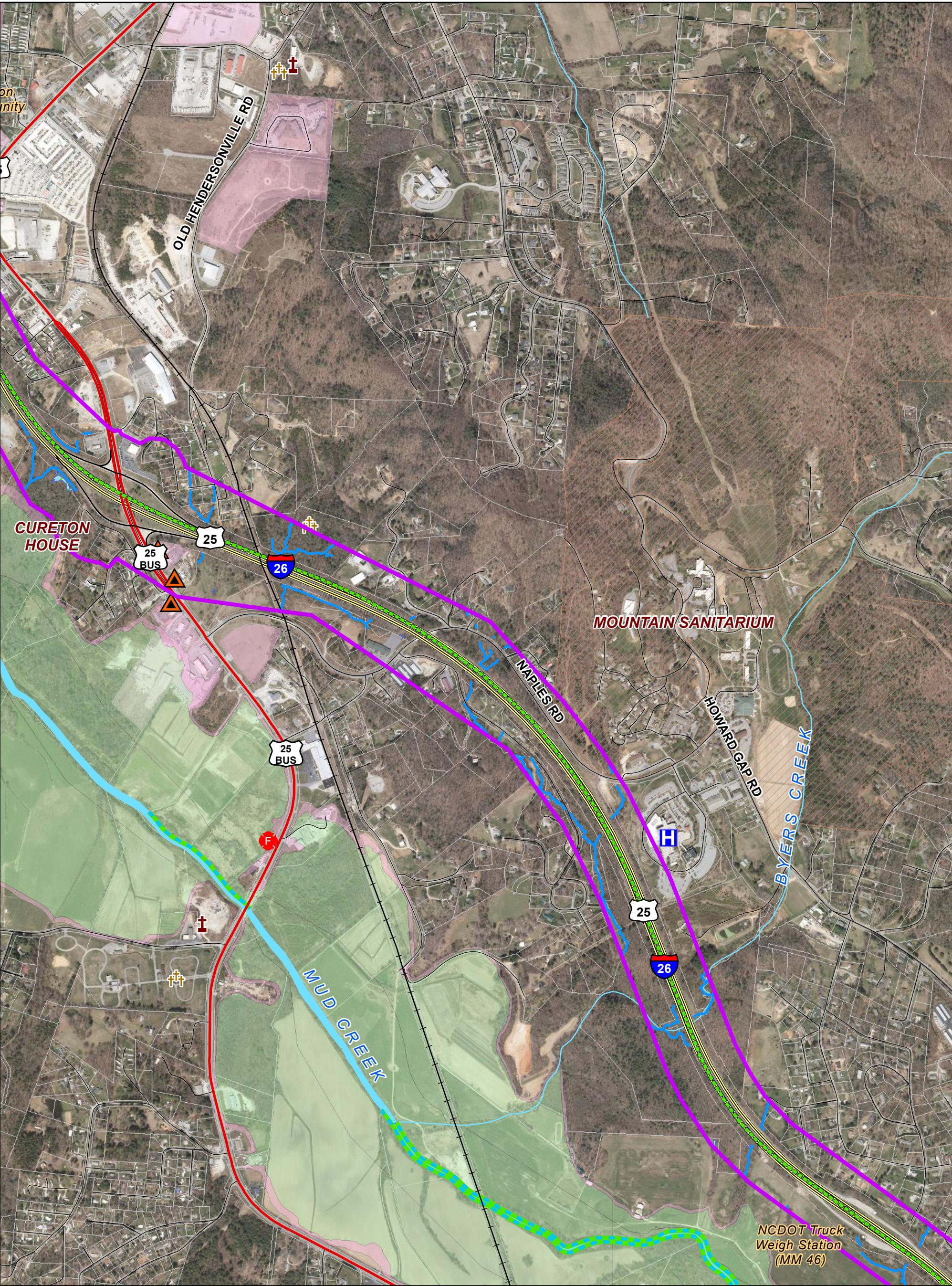
 - Study Area
 - STIP Project I-4400
 - STIP Project I-4700
 - Church
 - Cemetery
 - School
 - National Register Structure
 - Airport
 - Fire Station
 - Park Ridge Hospital
 - Environmental Site
 - Interstate
 - US Highway
 - NC Highway
 - Road
 - Railroad
 - Blue Ridge Parkway
 - Mountains-to-Sea Trail
 - Bent Creek Lake Julian
 - Greenway Preferred Alignment
 - Delineated Stream
 - 303(d) List Stream
 - Stream
 - Delineated Wetland
 - Delineated Pond
 - Water Body
 - FEMA Flood Zone
 - Zone A
 - 100-year Floodplain
 - Zone AE
 - 100-year Floodplain
 - 500-year Floodplain
 - National Register of Historic Places Property
 - Pisgah National Forest
 - Municipal Park
 - Voluntary Agriculture District
 - County Boundary
 - Property Boundary
 - County Boundary Asheville
 - Biltmore Forest
 - Flat Rock
 - Fletcher
 - Hendersonville
 - Laurel Park
 - Mills River
 - Saluda

Figure 6D - Environmental Features
STIP Project No. I-4400/I-4700
I-26 Widening
Buncombe and Henderson Counties



1 inch = 1,000 feet

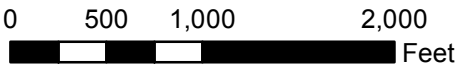




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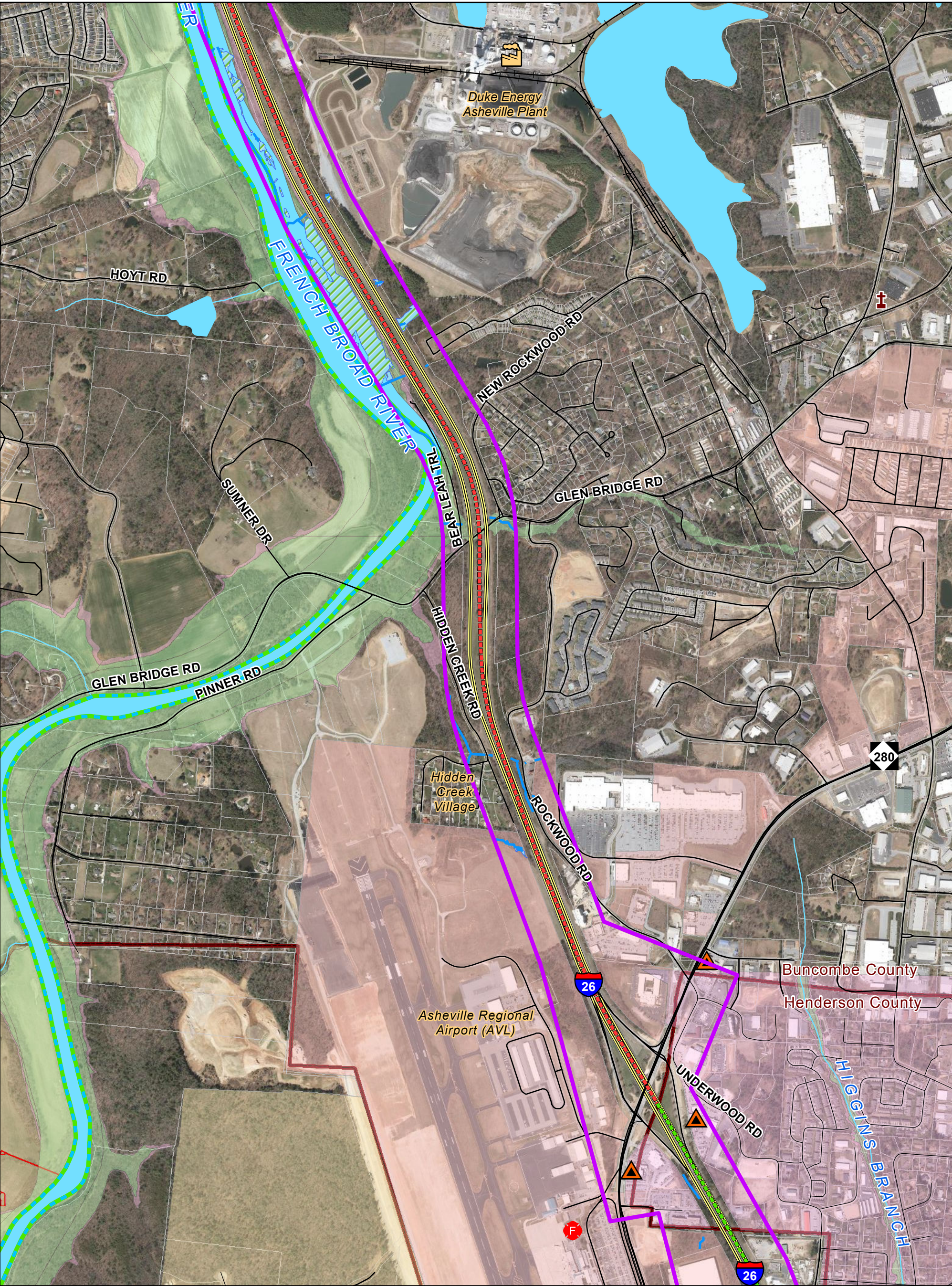
 - Study Area
 - STIP Project I-4400
 - STIP Project I-4700
 - Church
 - Cemetery
 - School
 - National Register Structure
 - Airport
 - Fire Station
 - Park Ridge Hospital
 - Environmental Site
 - Interstate
 - US Highway
 - NC Highway
 - Road
 - Railroad
 - Blue Ridge Parkway
 - Mountains-to-Sea Trail
 - Bent Creek Lake Julian
 - Greenway Preferred Alignment
 - Delineated Stream
 - 303(d) List Stream
 - Stream
 - Delineated Wetland
 - Delineated Pond
 - Water Body
 - FEMA Flood Zone
 - Zone A
 - 100-year Floodplain
 - Zone AE
 - 100-year Floodplain
 - 500-year Floodplain
 - National Register of Historic Places Property
 - Pisgah National Forest
 - Municipal Park
 - Voluntary Agriculture District
 - County Boundary
 - Property Boundary
 - County Boundary Asheville
 - Biltmore Forest
 - Flat Rock
 - Fletcher
 - Hendersonville
 - Laurel Park
 - Mills River
 - Saluda

Figure 6D - Environmental Features
STIP Project No. I-4400/I-4700
I-26 Widening
Buncombe and Henderson Counties



1 inch = 1,000 feet





Legend

Study Area

STIP Project I-4400

STIP Project I-4700

Church

Cemetery

School

National Register Structure

Airport

Fire Station

Park Ridge Hospital

Environmental Site

Interstate

US Highway

NC Highway

Road

Railroad

Blue Ridge Parkway

Mountains-to-Sea Trail

Bent Creek Lake Julian Greenway Preferred Alignment

Delineated Stream

303(d) List Stream

Stream

Delineated Wetland

Delineated Pond

Water Body

FEMA Flood Zone

Zone A,

100-year Floodplain

Zone AE,

100-year Floodplain

500-year Floodplain

National Register of Historic Places Property

Pisgah National Forest

Municipal Park

Voluntary Agriculture District

Property Boundary

County Boundary

Asheville

Biltmore Forest

Flat Rock

Fletcher

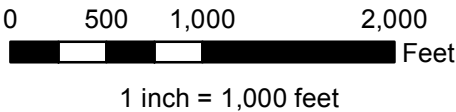
Hendersonville

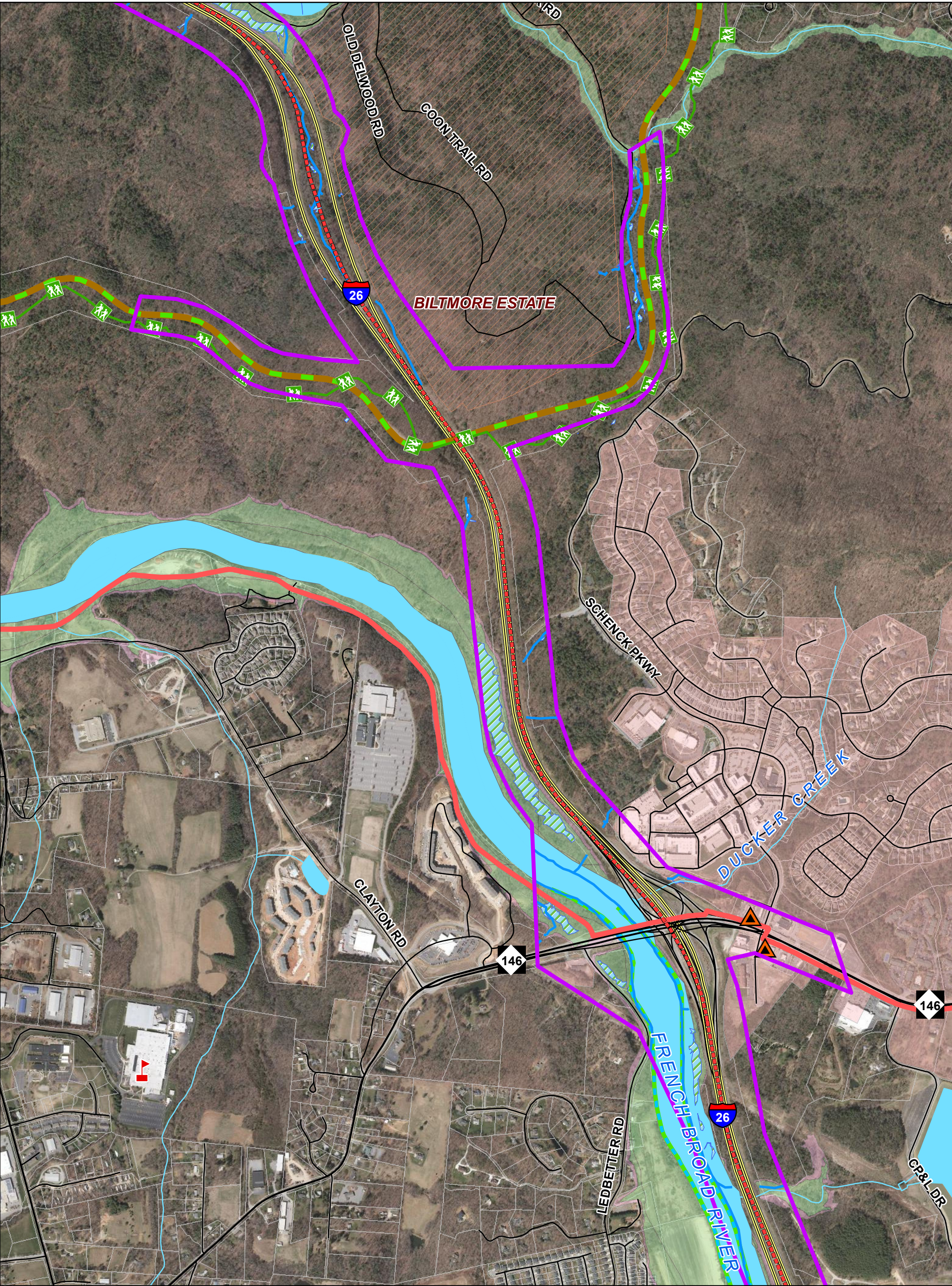
Laurel Park

Mills River

Saluda

Figure 6F - Environmental Features
STIP Project No. I-4400/I-4700
I-26 Widening
Buncombe and Henderson Counties

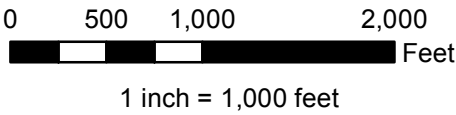


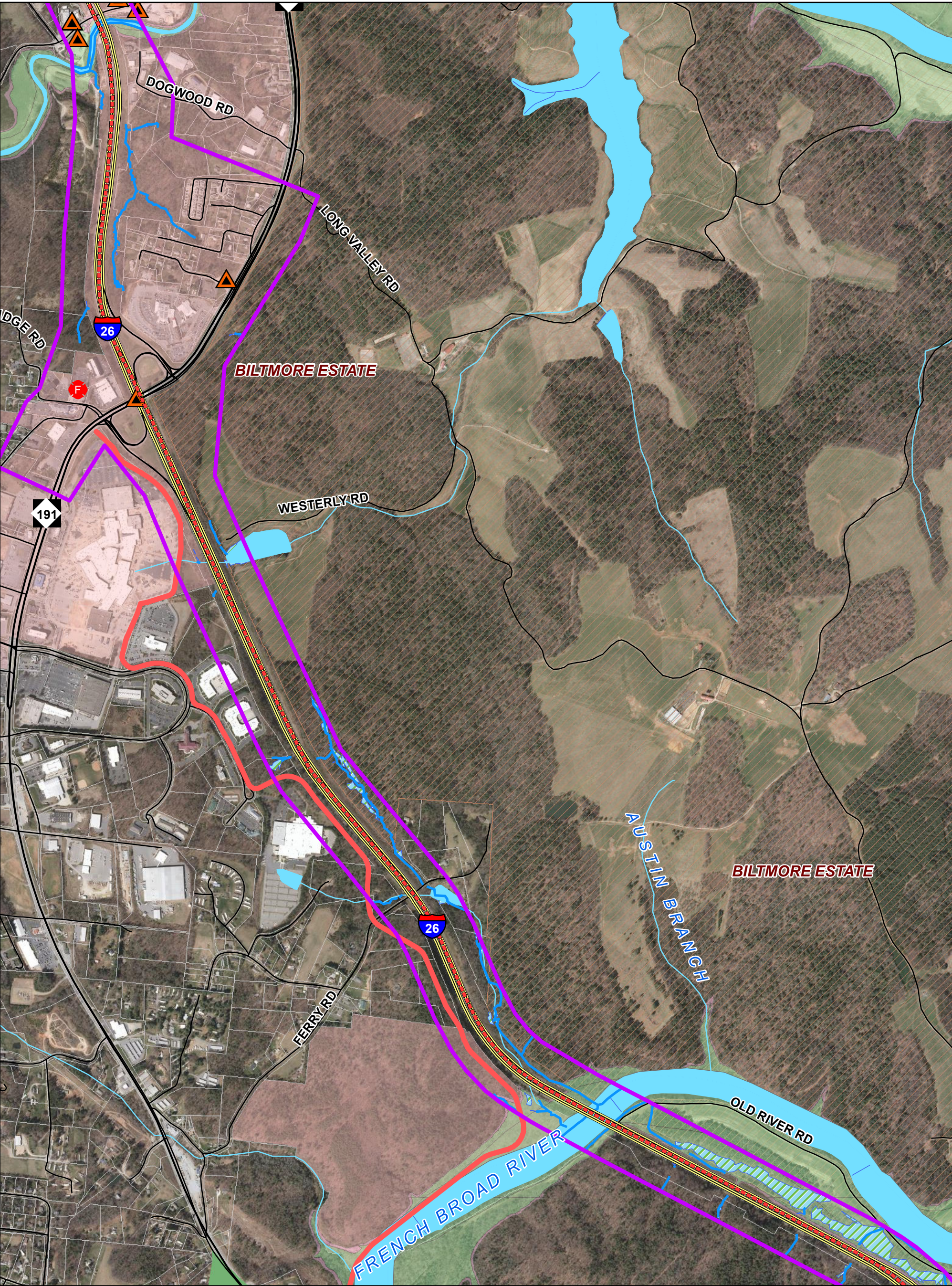


- Legend**

 - Study Area
 - STIP Project I-4400
 - STIP Project I-4700
 - Church
 - Cemetery
 - School
 - National Register Structure
 - Airport
 - Fire Station
 - Park Ridge Hospital
 - Environmental Site
 - Interstate
 - US Highway
 - NC Highway
 - Road
 - Railroad
 - Blue Ridge Parkway
 - Mountains-to-Sea Trail
 - Bent Creek Lake Julian
 - Greenway Preferred Alignment
 - Delineated Stream
 - 303(d) List Stream
 - Stream
 - Delineated Wetland
 - Delineated Pond
 - Water Body
 - FEMA Flood Zone
 - Zone A, 100-year Floodplain
 - Zone AE, 100-year Floodplain
 - 500-year Floodplain
 - National Register of Historic Places Property
 - Pisgah National Forest
 - Municipal Park
 - Voluntary Agriculture District
 - Property Boundary
 - County Boundary
 - Asheville
 - Biltmore Forest
 - Flat Rock
 - Fletcher
 - Hendersonville
 - Laurel Park
 - Mills River
 - Saluda

Figure 6G - Environmental Features
STIP Project No. I-4400/I-4700
I-26 Widening
Buncombe and Henderson Counties

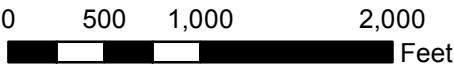




- Legend**

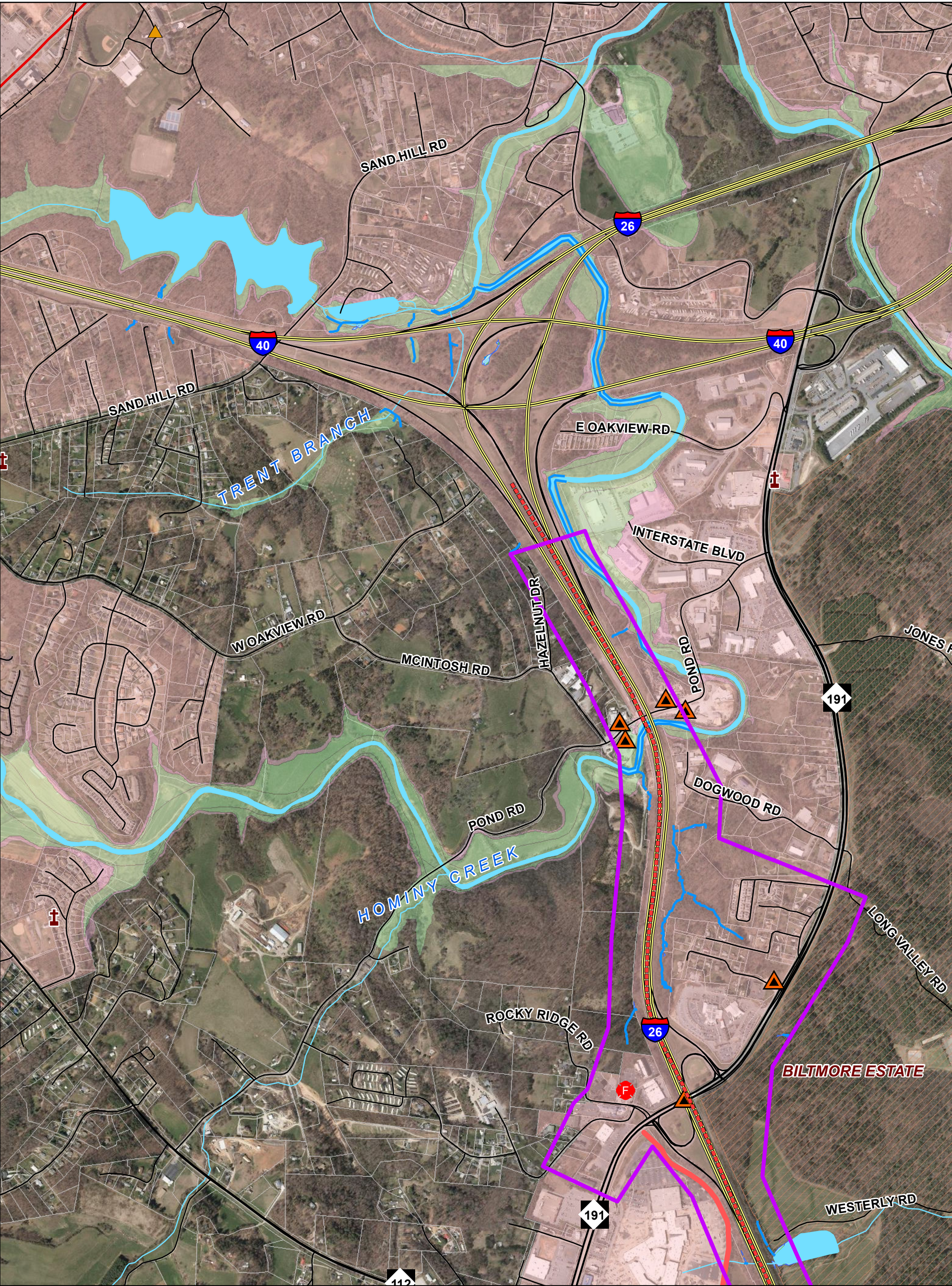
 - Study Area
 - STIP Project I-4400
 - STIP Project I-4700
 - Church
 - Cemetery
 - School
 - National Register Structure
 - Airport
 - Fire Station
 - Park Ridge Hospital
 - Environmental Site
 - Interstate
 - US Highway
 - NC Highway
 - Road
 - Railroad
 - Blue Ridge Parkway
 - Mountains-to-Sea Trail
 - Bent Creek Lake Julian
 - Greenway Preferred Alignment
 - Delineated Stream
 - 303(d) List Stream
 - Stream
 - Delineated Wetland
 - Delineated Pond
 - Water Body
 - FEMA Flood Zone
 - Zone A, 100-year Floodplain
 - Zone AE, 100-year Floodplain
 - 500-year Floodplain
 - National Register of Historic Places Property
 - Pisgah National Forest
 - Municipal Park
 - Voluntary Agriculture District
 - Property Boundary
 - County Boundary
 - Asheville
 - Biltmore Forest
 - Flat Rock
 - Fletcher
 - Hendersonville
 - Laurel Park
 - Mills River
 - Saluda

Figure 6H - Environmental Features
STIP Project No. I-4400/I-4700
I-26 Widening
Buncombe and Henderson Counties



1 inch = 1,000 feet





Legend

Study Area

STIP Project I-4400

STIP Project I-4700

Church

Cemetery

School

National Register Structure

Airport

Fire Station

Park Ridge Hospital

Environmental Site

Interstate

US Highway

NC Highway

Road

Railroad

Blue Ridge Parkway

Mountains-to-Sea Trail

Bent Creek Lake Julian

Greenway Preferred Alignment

Delineated Stream

303(d) List Stream

Stream

Delineated Wetland

Delineated Pond

Water Body

FEMA Flood Zone

Zone A, 100-year Floodplain

Zone AE, 100-year Floodplain

500-year Floodplain

National Register of Historic Places Property

Pisgah National Forest

Municipal Park

Voluntary Agriculture District

Property Boundary

County Boundary

Asheville

Biltmore Forest

Flat Rock

Fletcher

Hendersonville

Laurel Park

Mills River

Saluda

Figure 6I - Environmental Features
STIP Project No. I-4400/I-4700
I-26 Widening
Buncombe and Henderson Counties

Sources: Buncombe and Henderson Counties, NCDOT, NCOneMap, HNTB Date: 2016

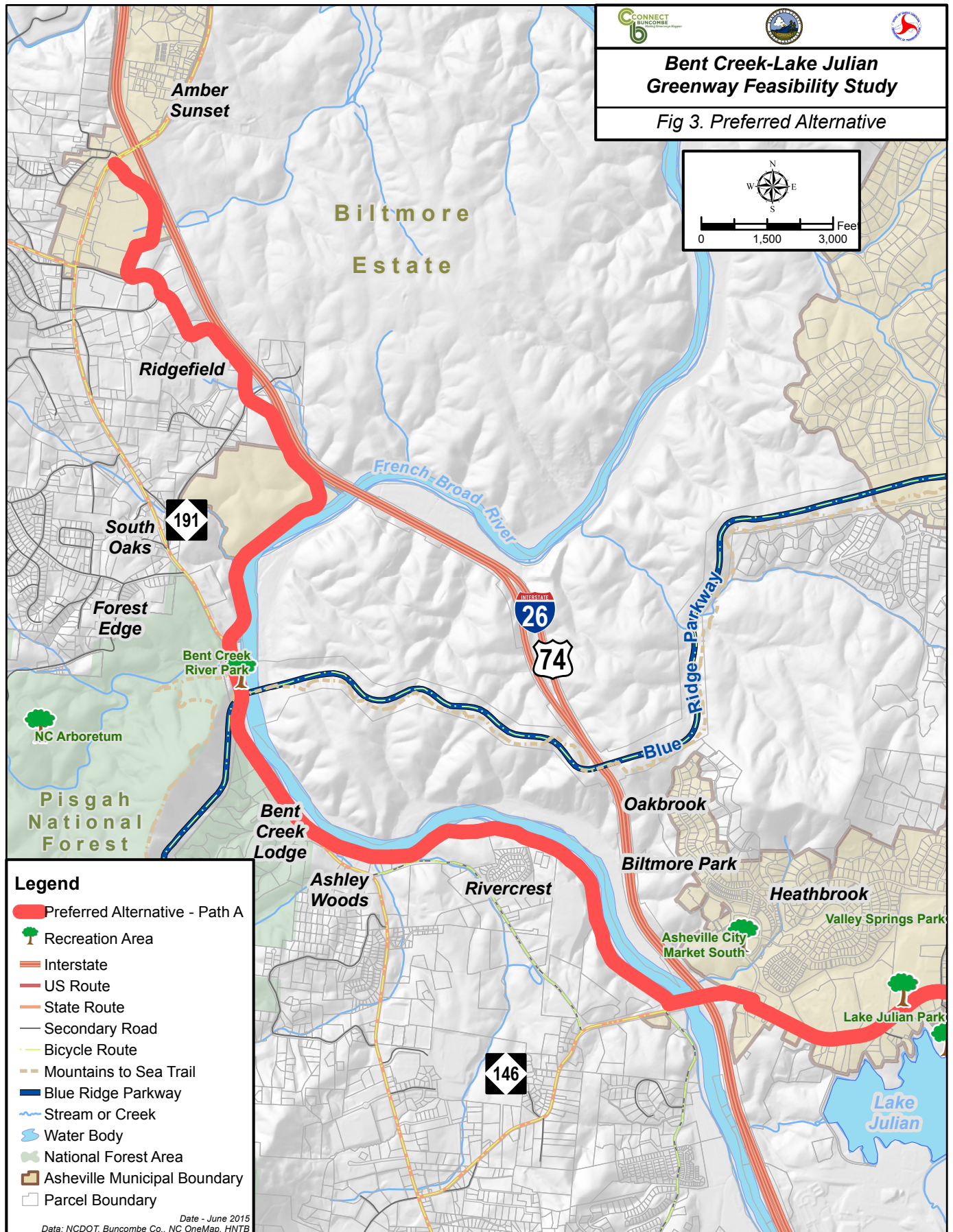
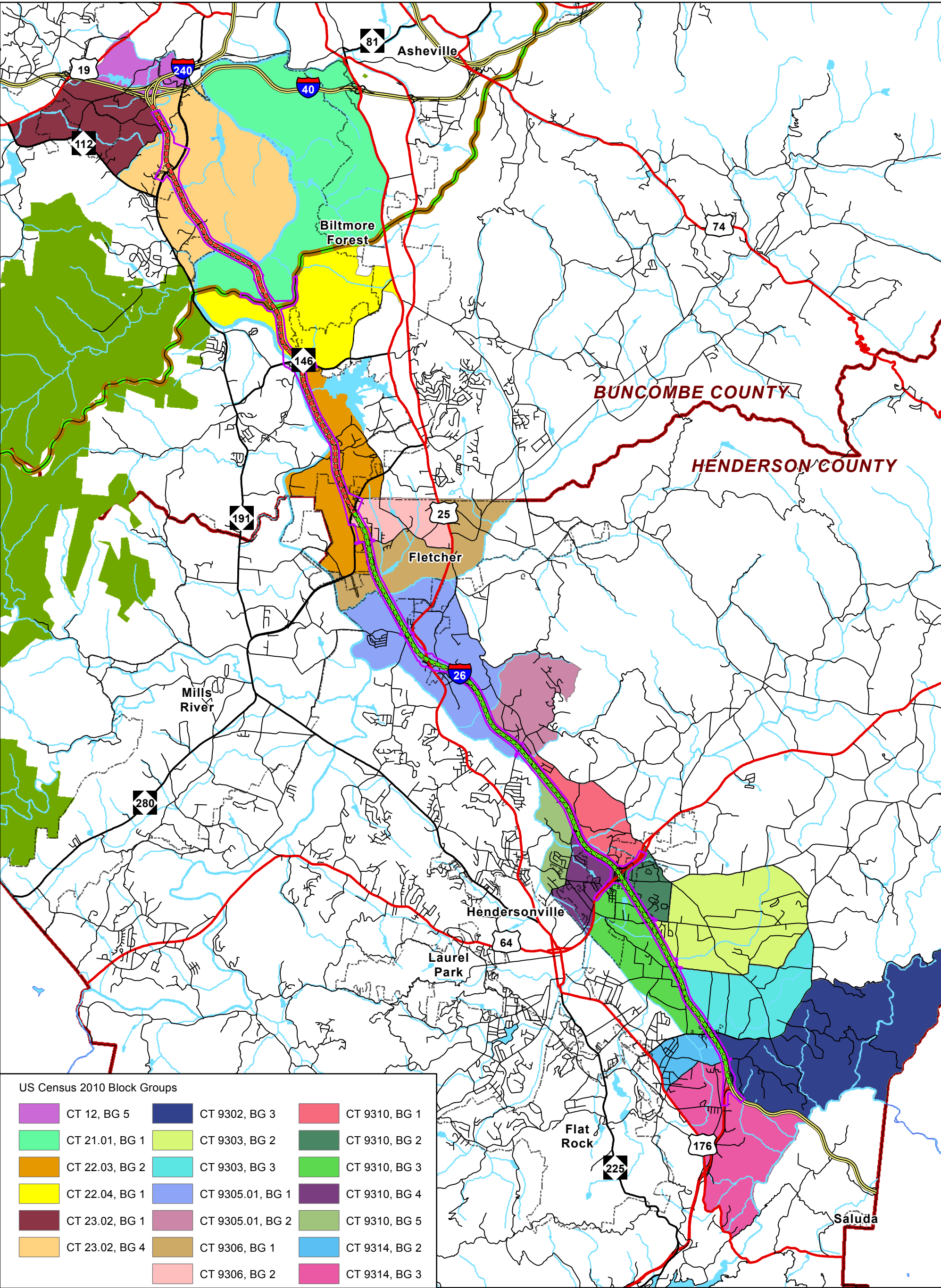


Figure 3 from
 Bent Creek-Lake Julian Feasibility Study
 HNTB, 2015
 see figure for scale

**Figure 7 - Bent Creek-Lake Julian
 Preferred Alternative
 STIP Project No. I-4400/I-4700
 I-26 Widening
 Buncombe and Henderson Counties**



Legend

Study Area

STIP Project I-4400

STIP Project I-4700

Interstate

US Route

State Route

Secondary Road

Blue Ridge Parkway

Stream

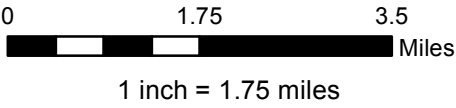
Water Body

Municipal Boundary

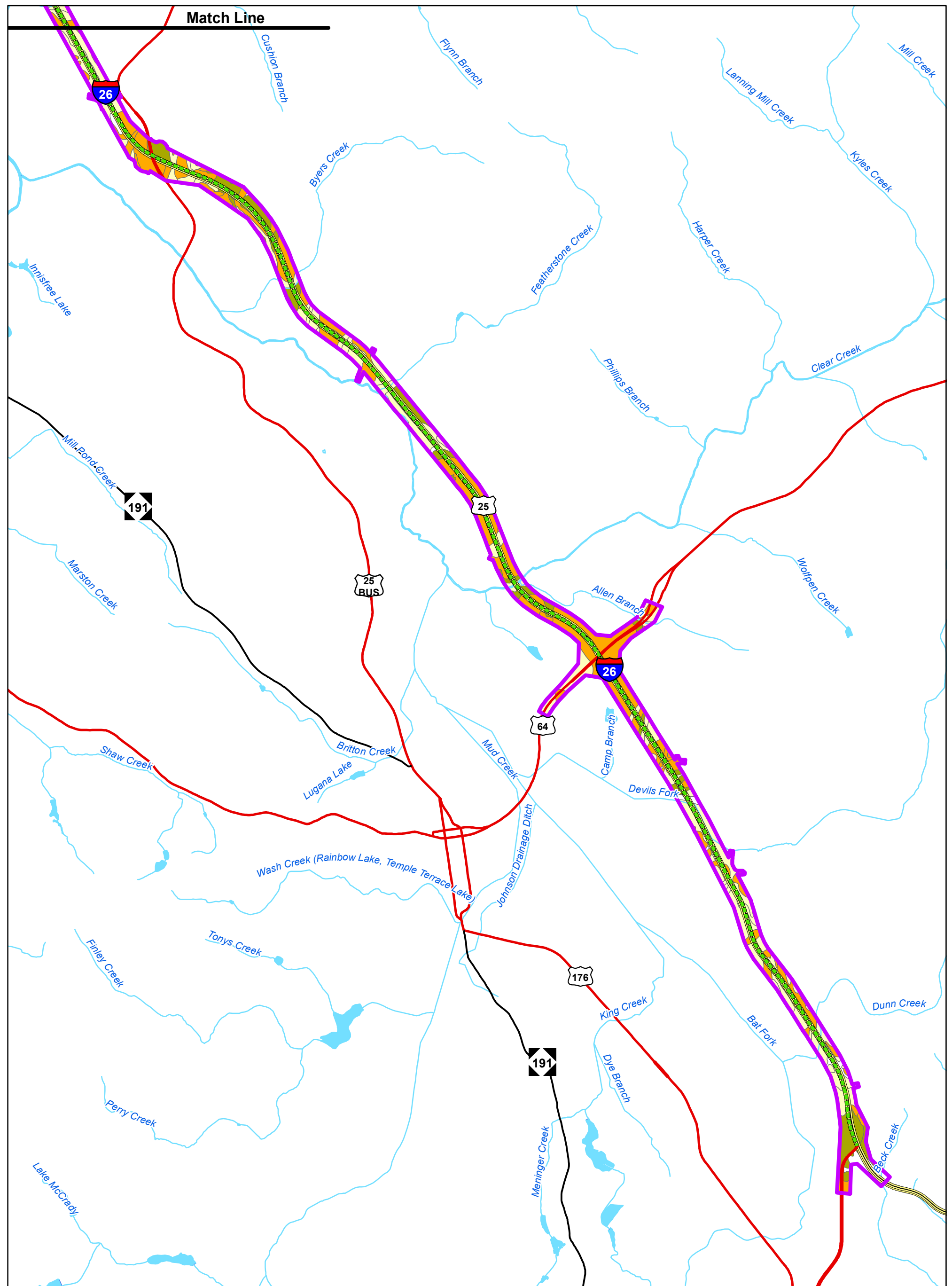
County Boundary

Pisgah National Forest

Figure 8 - Demographic Study Area
STIP Project No. I-4400/I-4700
I-26 Widening
Buncombe and Henderson Counties



Match Line



Legend



Study Area



STIP Project I-4400



STIP Project I-4700



Blue Ridge Parkway



Interstate

US Highway

NC Highway

Stream

Water Body

County Boundary



Prime Farmland



Farmland of Statewide Importance



Farmland of Local Importance

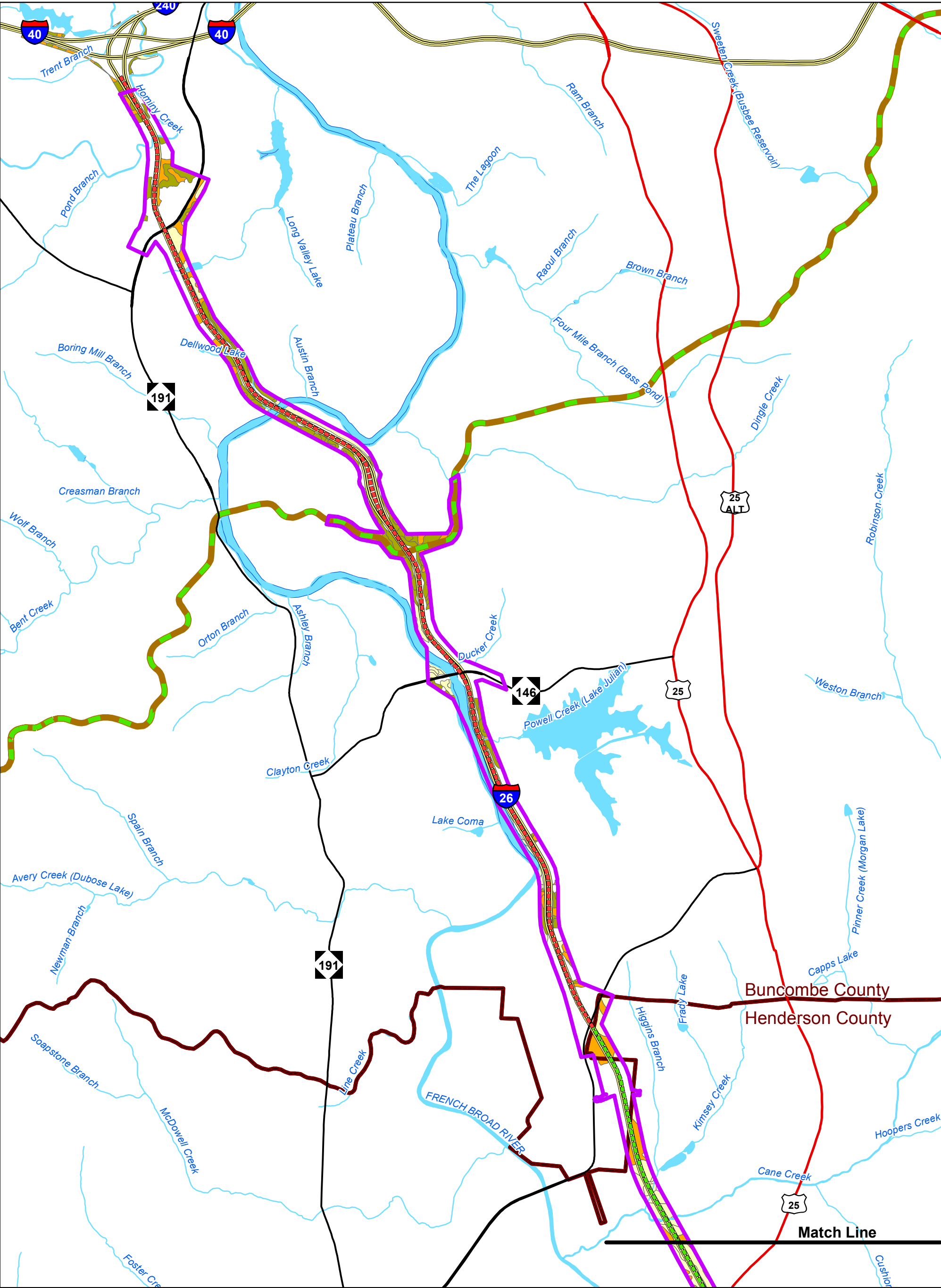


Figure 9A - Farmland Soils
STIP Project No. I-4400/I-4700
I-26 Widening
Buncombe and Henderson Counties

0 0.75 1.5
Miles

1 inch = 0.75 mile



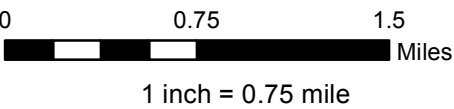


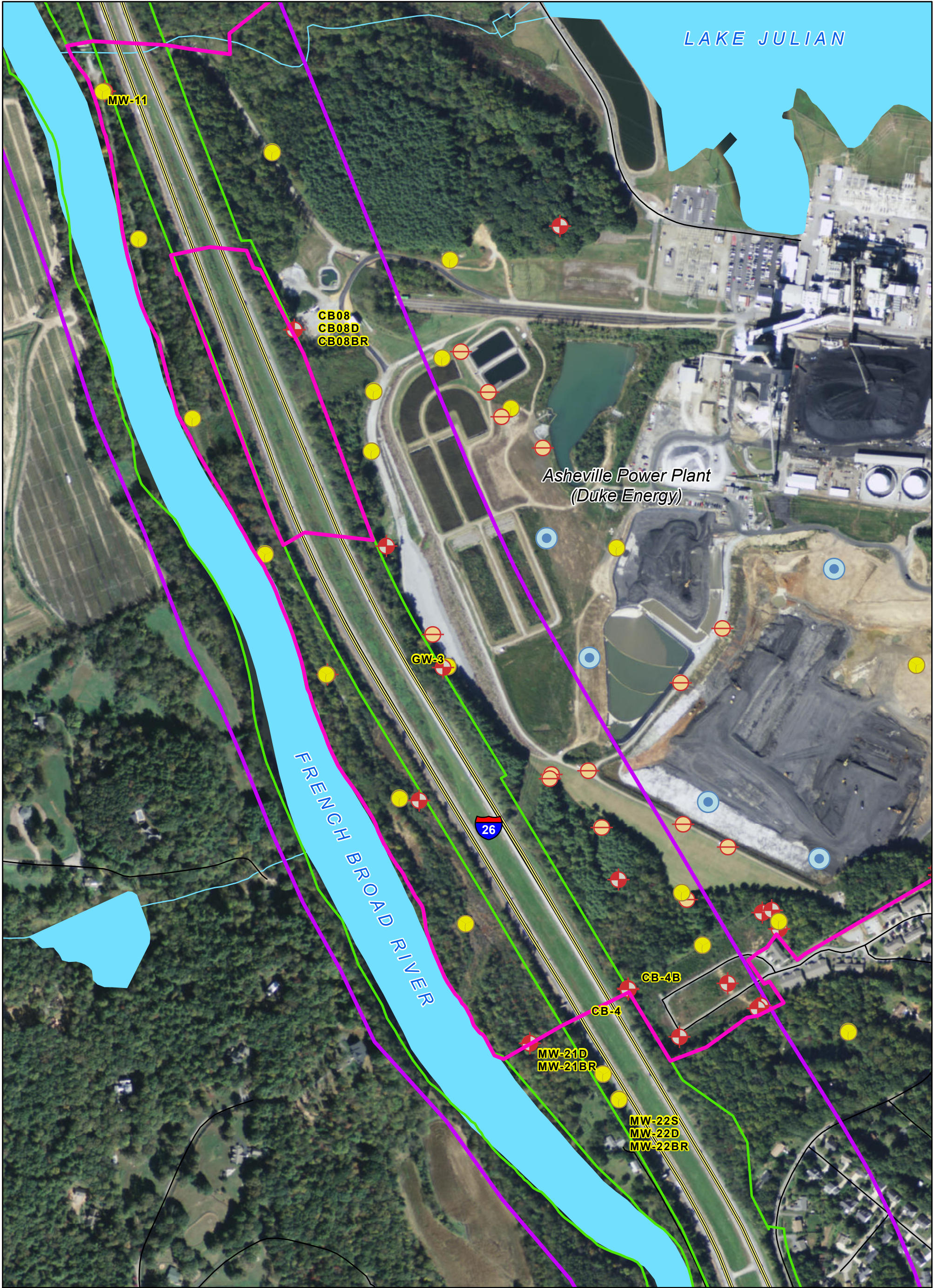
Legend

- | | | |
|---------------------|-----------------|----------------------------------|
| Study Area | US Highway | Prime Farmland |
| STIP Project I-4400 | NC Highway | Farmland of Statewide Importance |
| STIP Project I-4700 | Stream | Farmland of Local Importance |
| Blue Ridge Parkway | Water Body | |
| Interstate | County Boundary | |



Figure 9B - Farmland Soils
STIP Project No. I-4400/I-4700
I-26 Widening
Buncombe and Henderson Counties





Legend

- I-4400/I-4700 Study Corridor
- Existing Right Of Way
- Asheville Power Plant Parcel Boundary
- Interstate
- Road

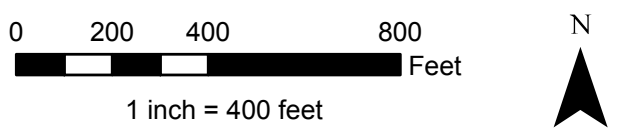
Duke Energy Wells

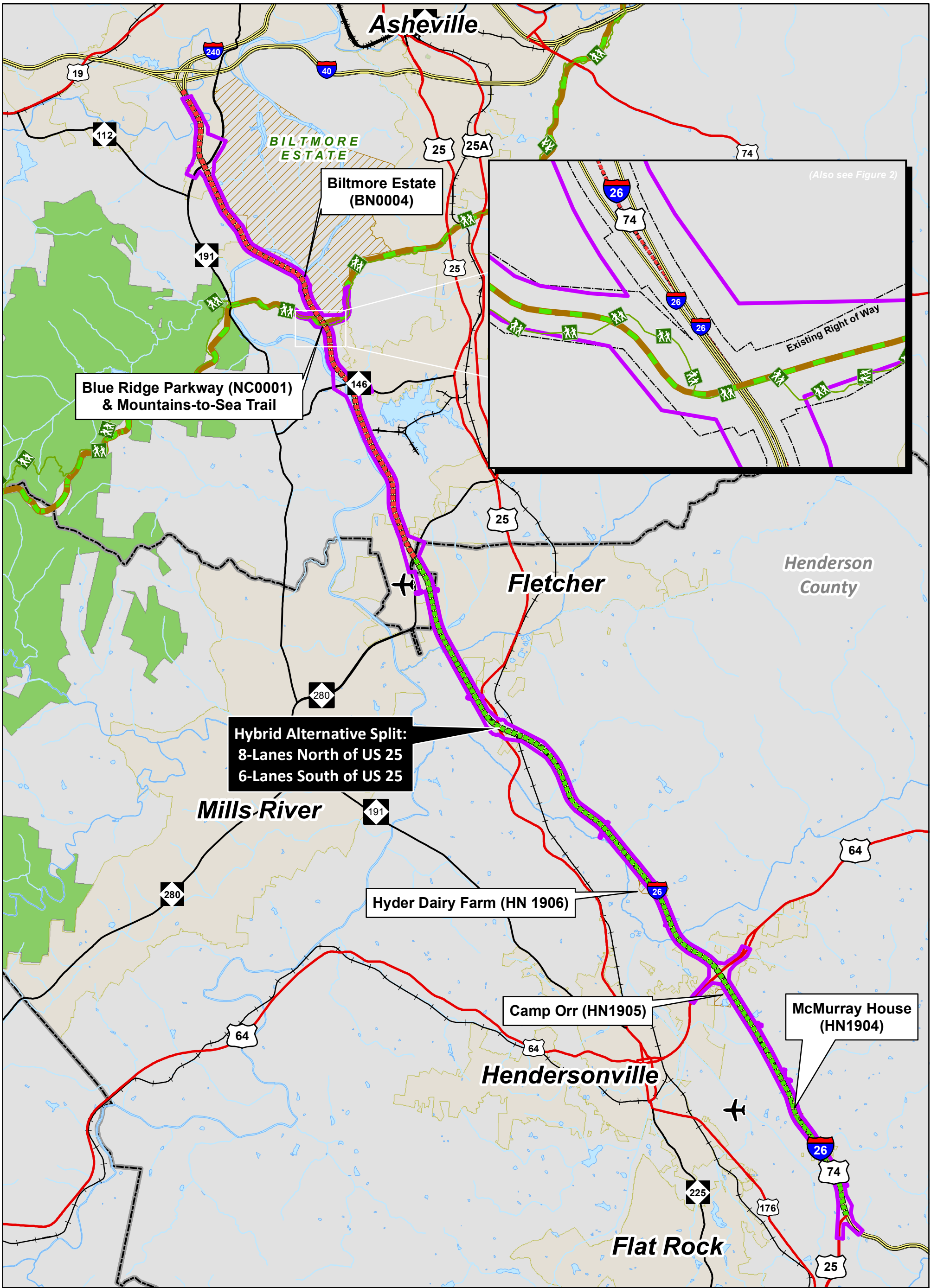
- Monitoring Well
- Piezometer
- Soil Boring
- Ash Boring

Stream

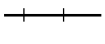
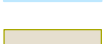
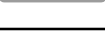
Water Body

Figure 10 - Duke Energy Well Locations
STIP Project No. I-4400/I-4700
I-26 Widening
Buncombe and Henderson Counties





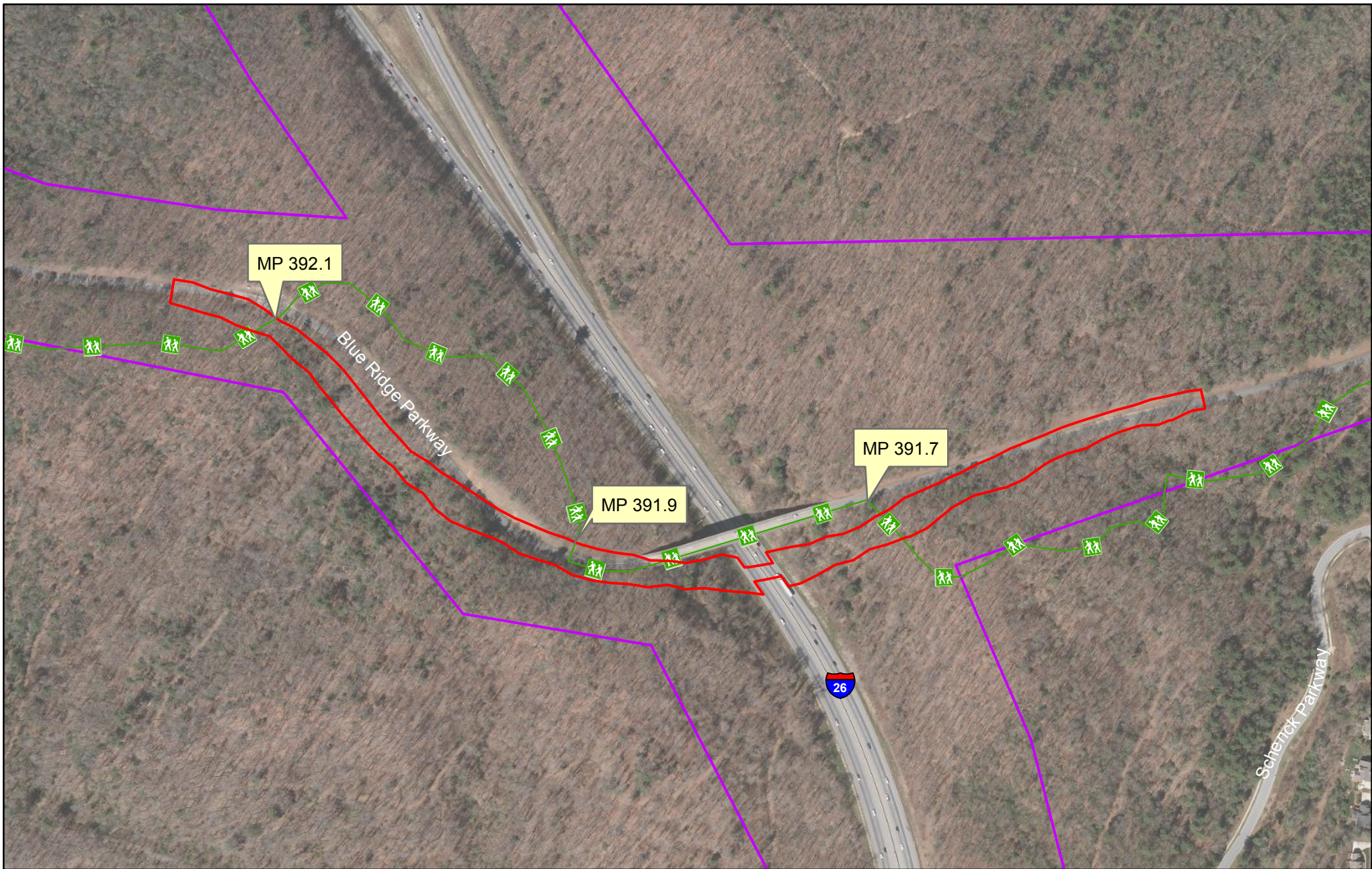
Legend

- | | |
|---|--|
|  Study Area |  Blue Ridge Parkway |
|  Airport |  Railroad |
|  Interstate |  Mountains-to-Sea Trail |
|  US Route |  Stream |
|  State Route |  Municipal Boundary |
| |  County Boundary |

**Figure 11 - Section 4(f) Properties
STIP Project No. I-4400/I-4700
I-26 Widening
Buncombe and Henderson Counties**

0 0.5 1 2 3 Miles
1 in = 1.5 miles





Legend

- Study Area
- BRP Bridge Replacement, Option 4
- — Mountains-to-Sea Trail

0 175 350 700 Feet
1 inch = 350 feet



**Figure 12 - Blue Ridge Parkway and
Mountains-to-Sea Trail
STIP Project No. I-4400/I-4700
I-26 Widening
Buncombe and Henderson Counties**

Sources: NPS, EFL, NCDOT, HNTB. Date: 2016