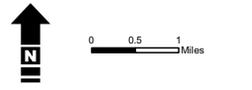


- Legend**
- Preferred Alternative Right of Way
  - Preferred Alternative Study Corridor
  - Other Detailed Study Corridors
  - Parks and Recreation Areas
  - Municipal Areas
  - Rivers and Streams

Source: Gaston County and Mecklenburg County GIS  
Map printed March 2010



STIP PROJECT NO. U-3321  
Gaston County and Mecklenburg County

**GASTON EAST-WEST CONNECTOR**

**PREFERRED ALTERNATIVE DSA 9**

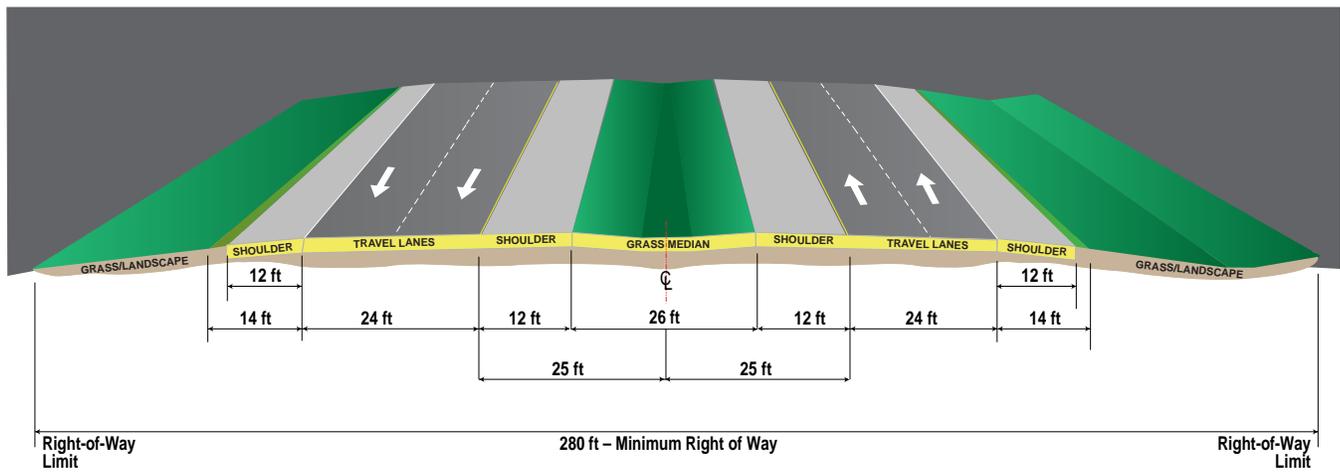
- ★ Design Refinement Locations
- Service Road Locations

POTENTIAL INTERCHANGE LOCATIONS		
① I-85	④ US 321	⑧ NC 273 (Southpoint Road)
② US 29-74	⑤ Robinson Road	⑨ Dixie River Road
③ Linwood Road	⑥ NC 274 (Union Road)	⑩ I-485
	⑦ NC 279 (S. New Hope Rd)	

NOTE: PRELIMINARY ALIGNMENTS SUBJECT TO CHANGE

Figure 2-1

FEIS\_Fig2\_TypicalSection.mxd 02.12.10



GASTON EAST-WEST CONNECTOR

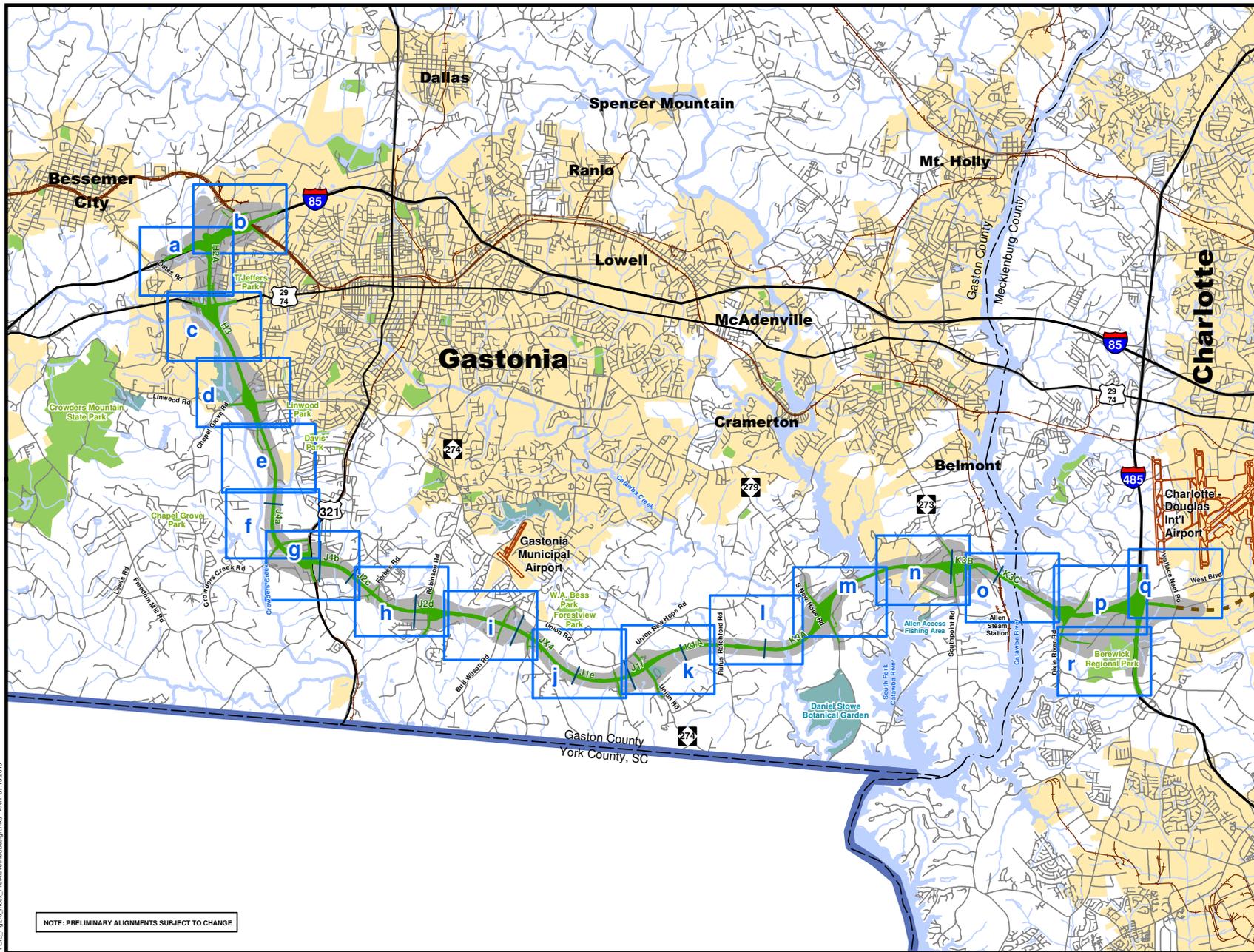
STIP PROJECT NO. U-3321  
Gaston and Mecklenburg Counties

NOT TO SCALE



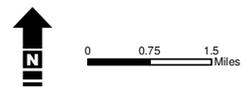
PREFERRED ALTERNATIVE  
TYPICAL SECTION

Figure 2-2



- Legend**
- █ Preferred Alternative
  - Right of Way
  - Sheets
  - Segment Breaks
  - Preferred Alternative DSA Corridor
  - West Blvd Realignment (Construction by Others)
  - Parks
  - Private Recreation Facilities and Attractions
  - County Lines
  - State Line
  - Interstates
  - US Routes
  - Streets
  - Railroad
  - Hydrology
  - City Limits

Source: Gaston County and Mecklenburg County GIS Map printed July 2010



STIP PROJECT NO. U-3321  
Gaston County and Mecklenburg County

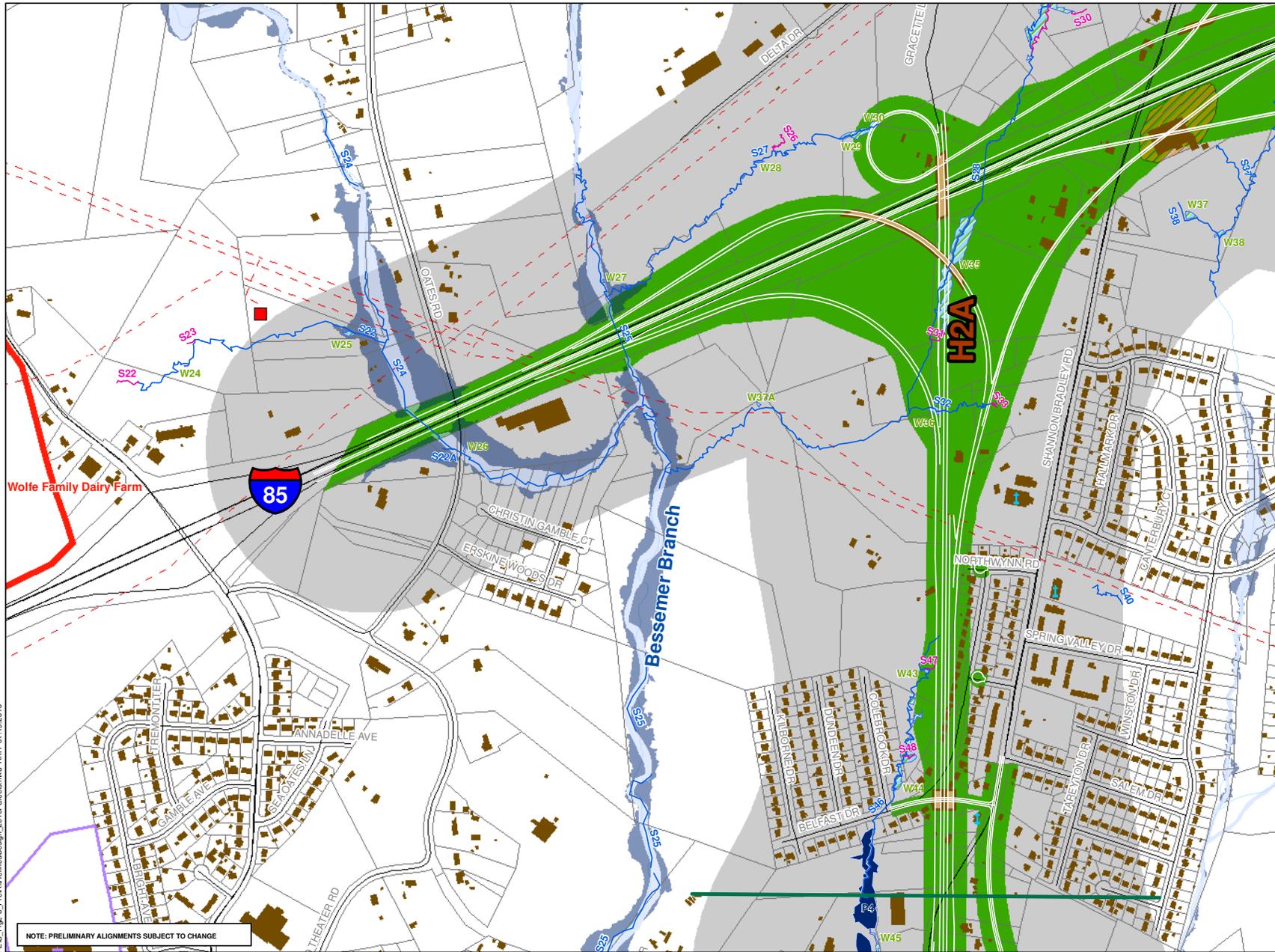
**GASTON EAST-WEST CONNECTOR**

**PREFERRED ALTERNATIVE REFINED DESIGN**

Figure 2-3 Index

NOTE: PRELIMINARY ALIGNMENTS SUBJECT TO CHANGE

FEIS\_Fig2.3\_Index\_FinalRevEdDesignMod\_AKH\_07.13.2010



- Legend**
- Preferred Alternative Refined Design
  - Preferred Alternative Service Road Design
  - Preferred Alternative Refined Right of Way
  - Preferred Alternative Service Rd Right of Way
  - Preferred Alternative Bridges
  - Segment Breaks
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  - Original DSA Corridor
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  - Floodway
  - 100 Yr. Floodplain
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  - Cemeteries
  - Churches in DSA
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  - School Property
  - Structures
  - Historic Sites on-eligible NRHP
  - Natural Heritage Occurrence Sites
  - NatHeritageProgOccAreasCLIP
  - Superfund Sites
  - Parks
  - Private Recreation Facilities and Attractions
  - Power Transmission Lines
  - Substations
  - Railroads
  - Streets
  - Segment Name



Source: Gaston and Mecklenburg Counties Map printed July 2010.



STIP PROJECT  
NO. U-3321  
Gaston County and  
Mecklenburg County

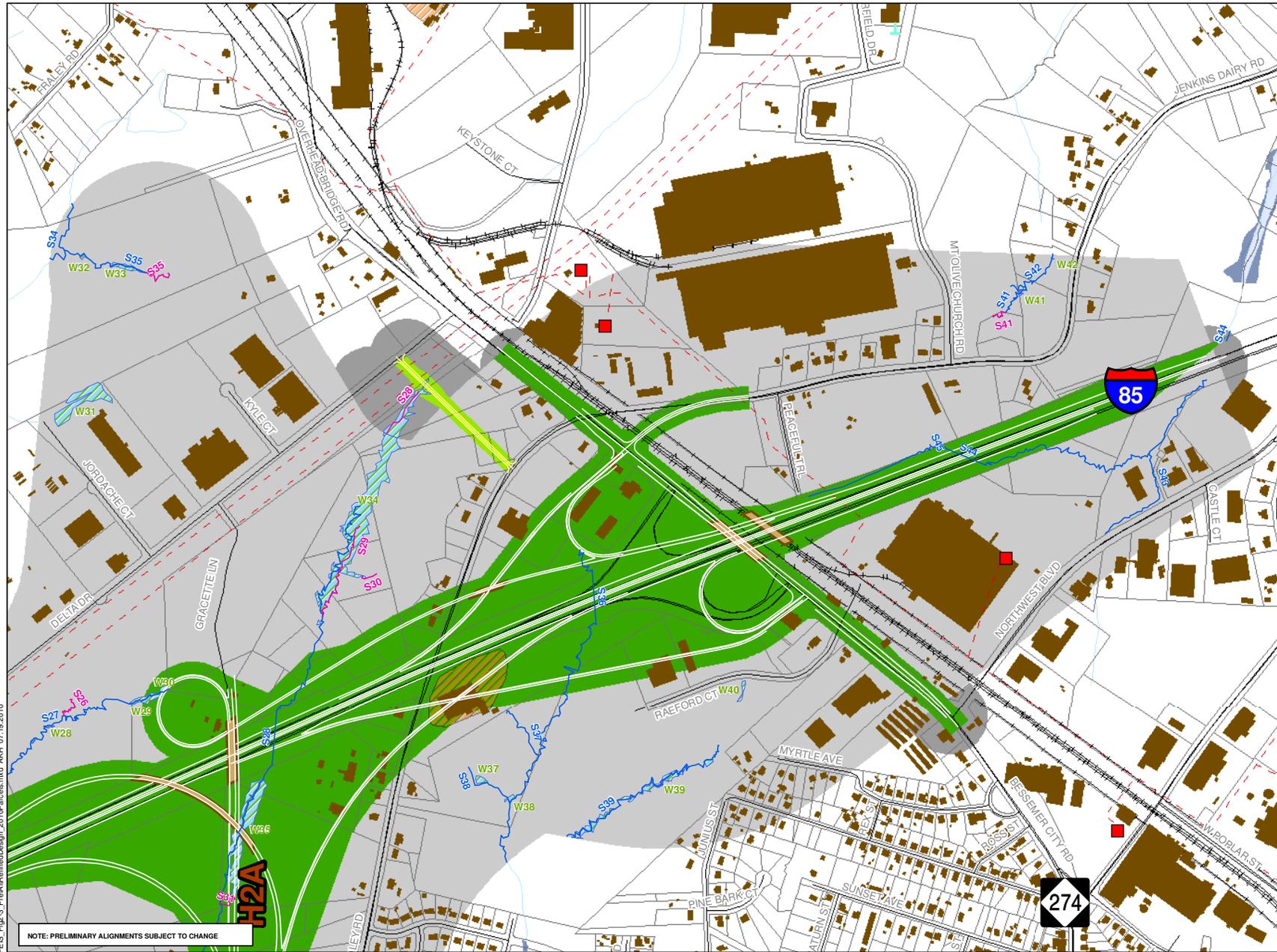
GASTON EAST-WEST  
CONNECTOR

PREFERRED  
ALTERNATIVE  
REFINED DESIGN

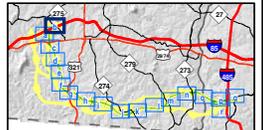
Figure 2-3 a

FEE\_Fig\_2-3\_PrefAltRefinedDesign\_2010Parcels.mxd AKH 07.19.2010

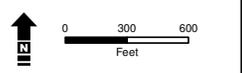
NOTE: PRELIMINARY ALIGNMENTS SUBJECT TO CHANGE



- Legend**
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Source: Gaston and Mecklenburg Counties Map printed July 2010.



**NORTH CAROLINA Turnpike Authority**

STIP PROJECT NO. U-3321  
 Gaston County and Mecklenburg County

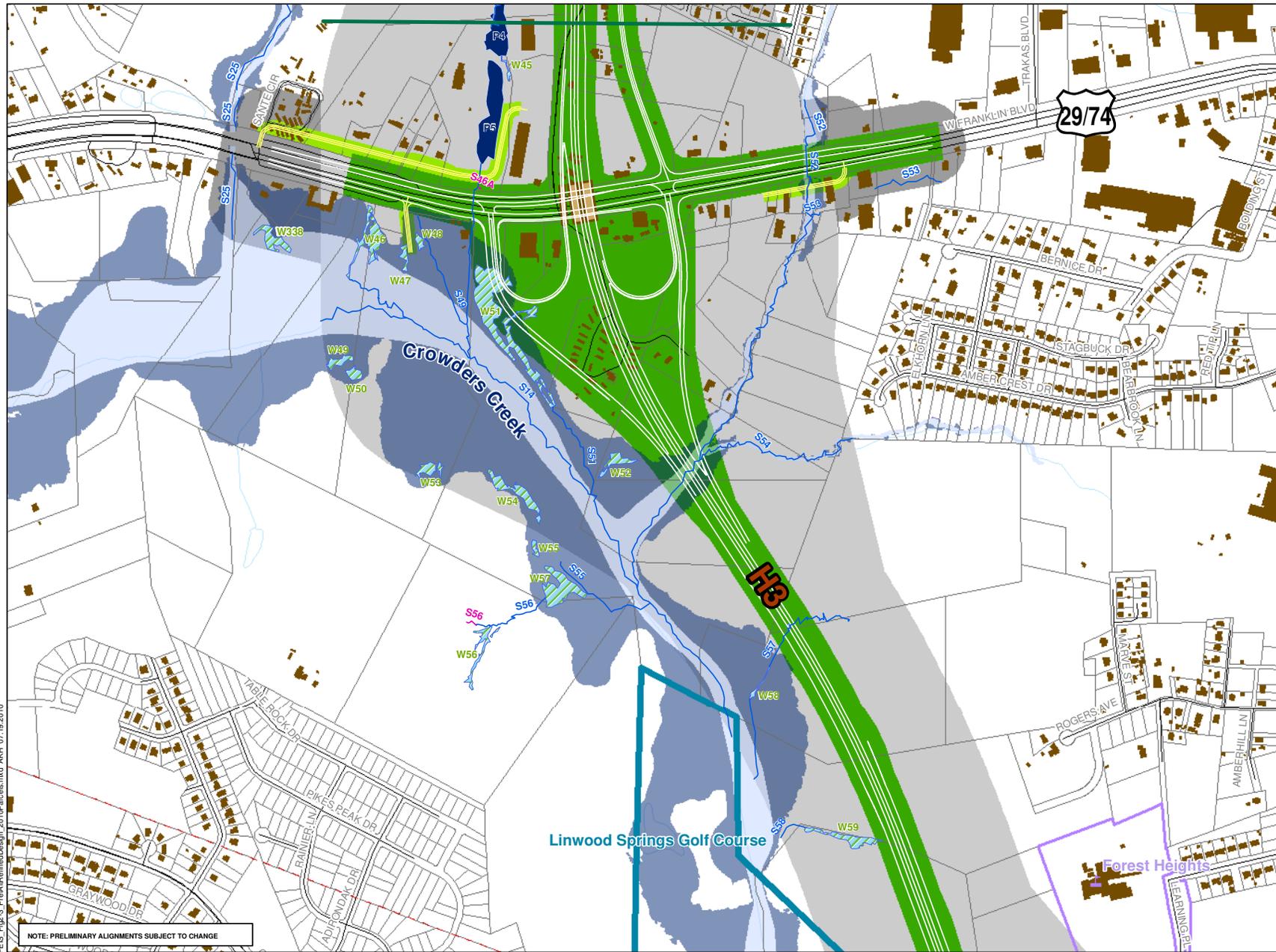
**GASTON EAST-WEST CONNECTOR**

**PREFERRED ALTERNATIVE REFINED DESIGN**

Figure 2-3 b

FEB\_2010\_Fig\_2-3\_PrefAltRefinedDesign\_2010Parcels.mxd AKH 07.19.2010

NOTE: PRELIMINARY ALIGNMENTS SUBJECT TO CHANGE



- Legend**
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  - Private Recreation Facilities and Attractions
  - Power Transmission Lines
  - Substations
  - Railroads
  - Streets
  - Segment Name



Source: Gaston and Mecklenburg Counties  
Map printed July 2010.



STIP PROJECT  
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Gaston County and  
Mecklenburg County

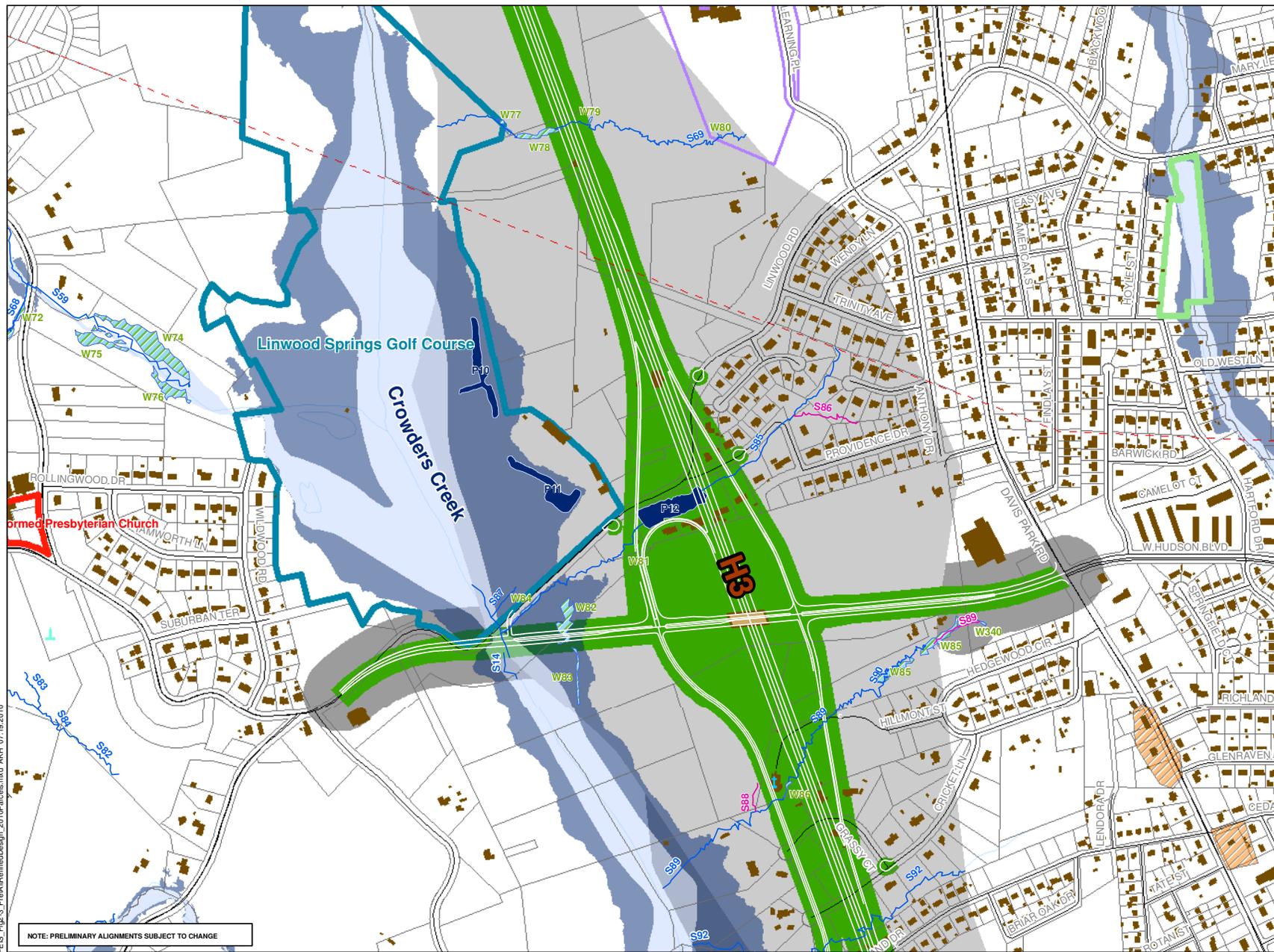
GASTON EAST-WEST  
CONNECTOR

PREFERRED  
ALTERNATIVE  
REFINED DESIGN

Figure 2-3 c

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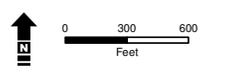
NOTE: PRELIMINARY ALIGNMENTS SUBJECT TO CHANGE



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Source: Gaston and Mecklenburg Counties Map printed July 2010.



**NORTH CAROLINA Turnpike Authority**

STIP PROJECT NO. U-3321  
 Gaston County and Mecklenburg County

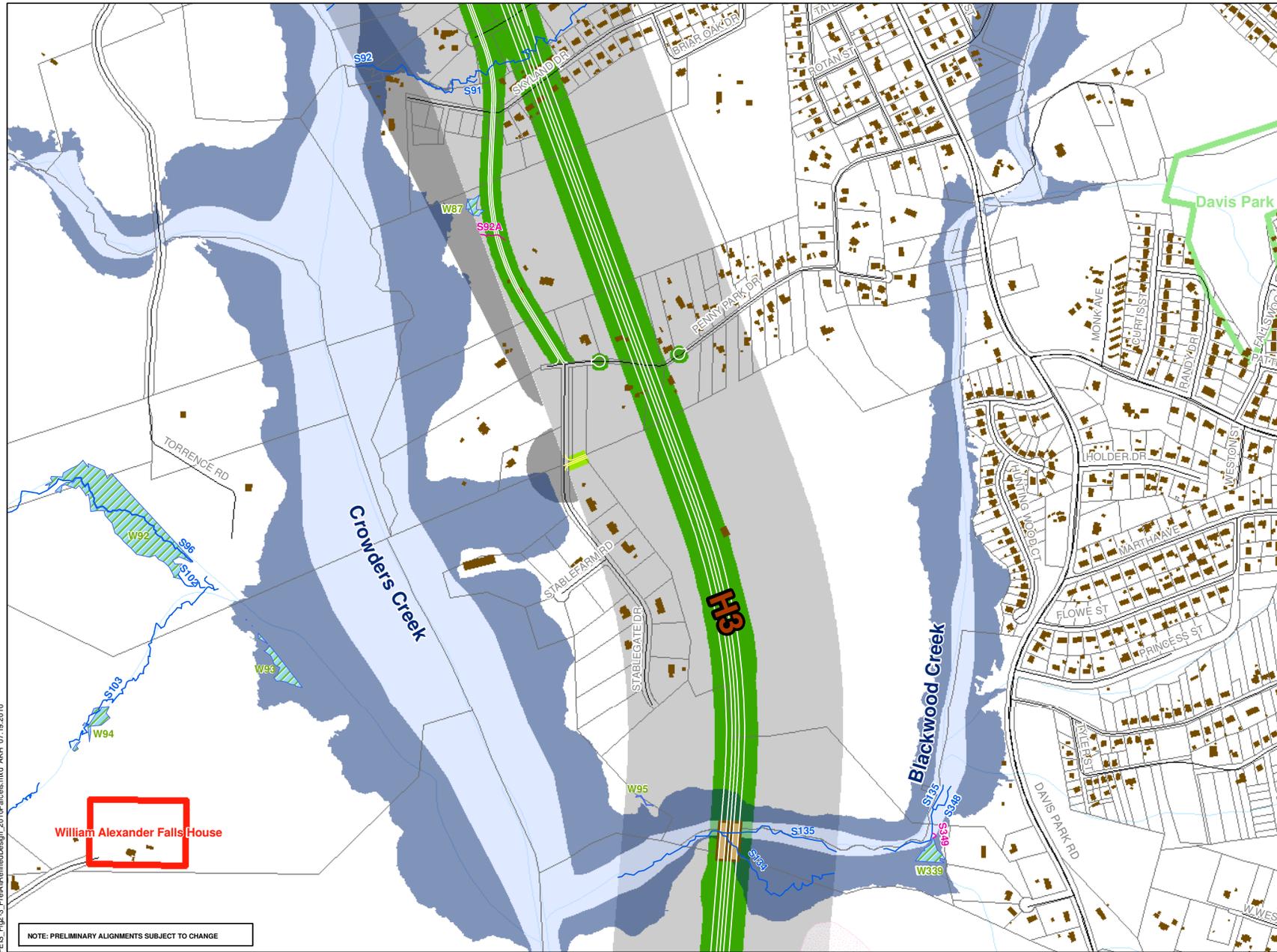
**GASTON EAST-WEST CONNECTOR**

**PREFERRED ALTERNATIVE REFINED DESIGN**

**Figure 2-3 d**

FEB\_Fig-3\_PrefAltRefinedDesign\_2010Parcels.mxd AKH 07.19.2010

NOTE: PRELIMINARY ALIGNMENTS SUBJECT TO CHANGE



FEB\_Fig\_2-3\_PrefAltRefinedDesign\_2010Parcels.mxd AKH 07.19.2010

NOTE: PRELIMINARY ALIGNMENTS SUBJECT TO CHANGE

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Source: Gaston and Mecklenburg Counties Map printed July 2010.



STIP PROJECT  
NO. U-3321  
Gaston County and  
Mecklenburg County

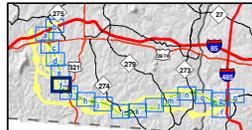
GASTON EAST-WEST  
CONNECTOR

PREFERRED  
ALTERNATIVE  
REFINED DESIGN

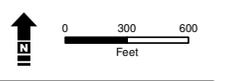
Figure 2-3 e



- Legend**
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Source: Gaston and Mecklenburg Counties  
Map printed July 2010.



**NORTH CAROLINA**  
**Turnpike Authority**

STIP PROJECT  
NO. U-3321  
Gaston County and  
Mecklenburg County

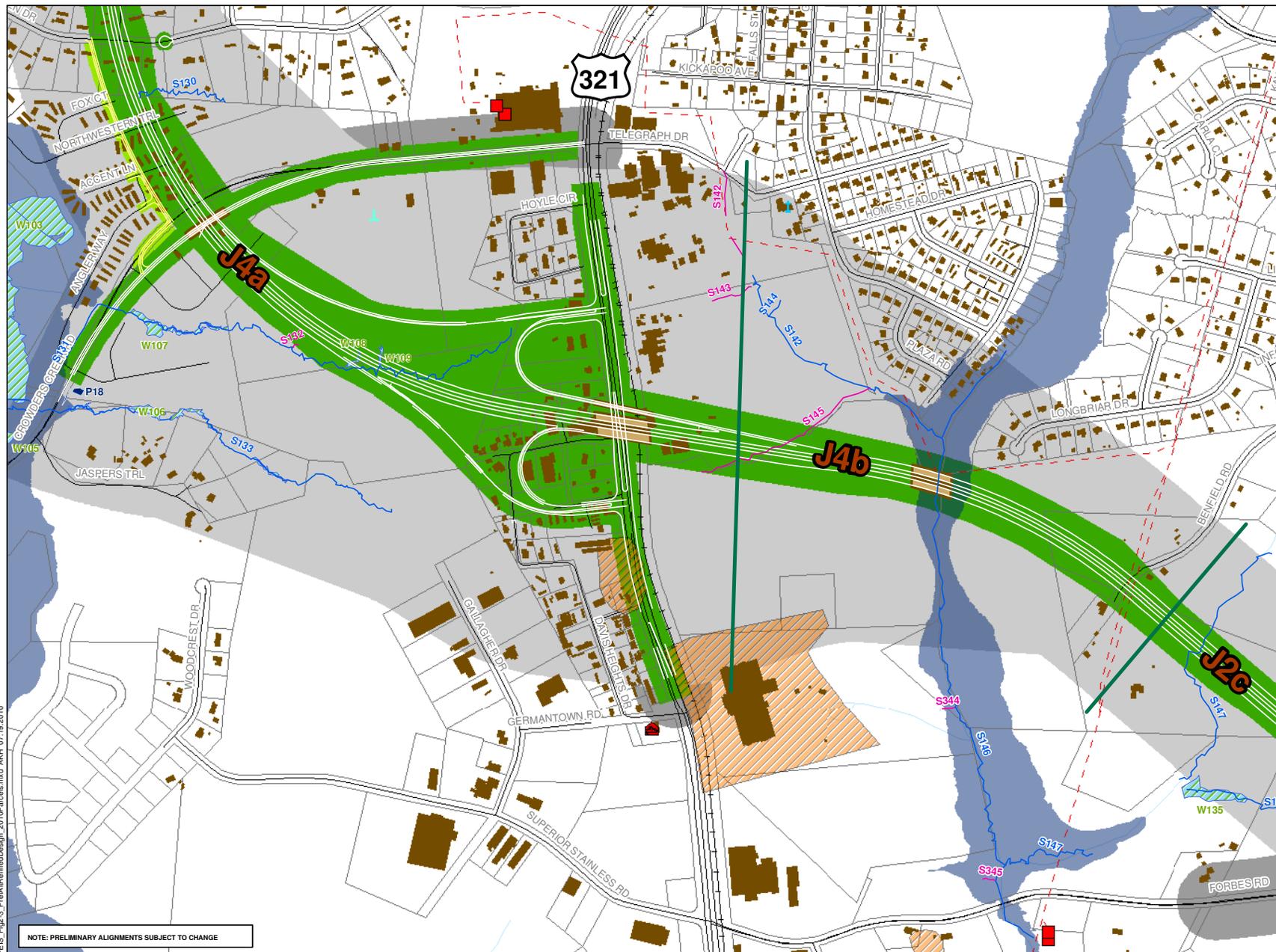
**GASTON EAST-WEST  
CONNECTOR**

**PREFERRED  
ALTERNATIVE  
REFINED DESIGN**

Figure 2-3 f

EEB\_Fig2-3\_PrefAltRefinedDesign\_2010Parcels.mxd AKH 07.19.2010

NOTE: PRELIMINARY ALIGNMENTS SUBJECT TO CHANGE



- Legend**
- Preferred Alternative Refined Design
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Source: Gaston and Mecklenburg Counties  
Map printed July 2010.



**NORTH CAROLINA**  
**Turnpike Authority**

STIP PROJECT  
NO. U-3321  
Gaston County and  
Mecklenburg County

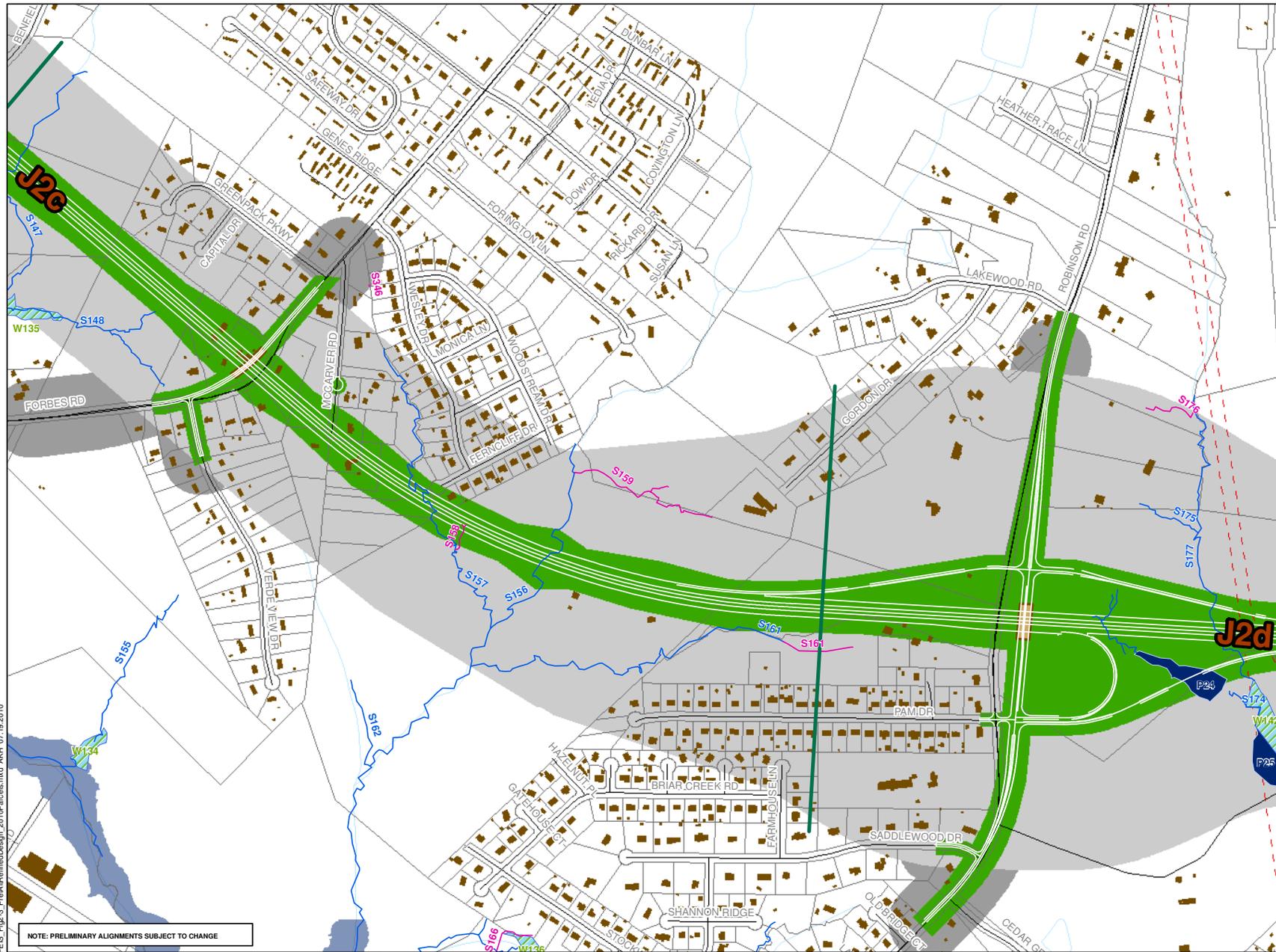
**GASTON EAST-WEST  
CONNECTOR**

**PREFERRED  
ALTERNATIVE  
REFINED DESIGN**

Figure 2-3 g

FEB\_2010\_3\_PrefAltRefinedDesign\_2010Parcels.mxd AKH 07.19.2010

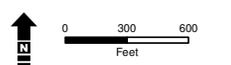
NOTE: PRELIMINARY ALIGNMENTS SUBJECT TO CHANGE



- Legend**
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Source: Gaston and Mecklenburg Counties Map printed July 2010.



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Gaston County and Mecklenburg County

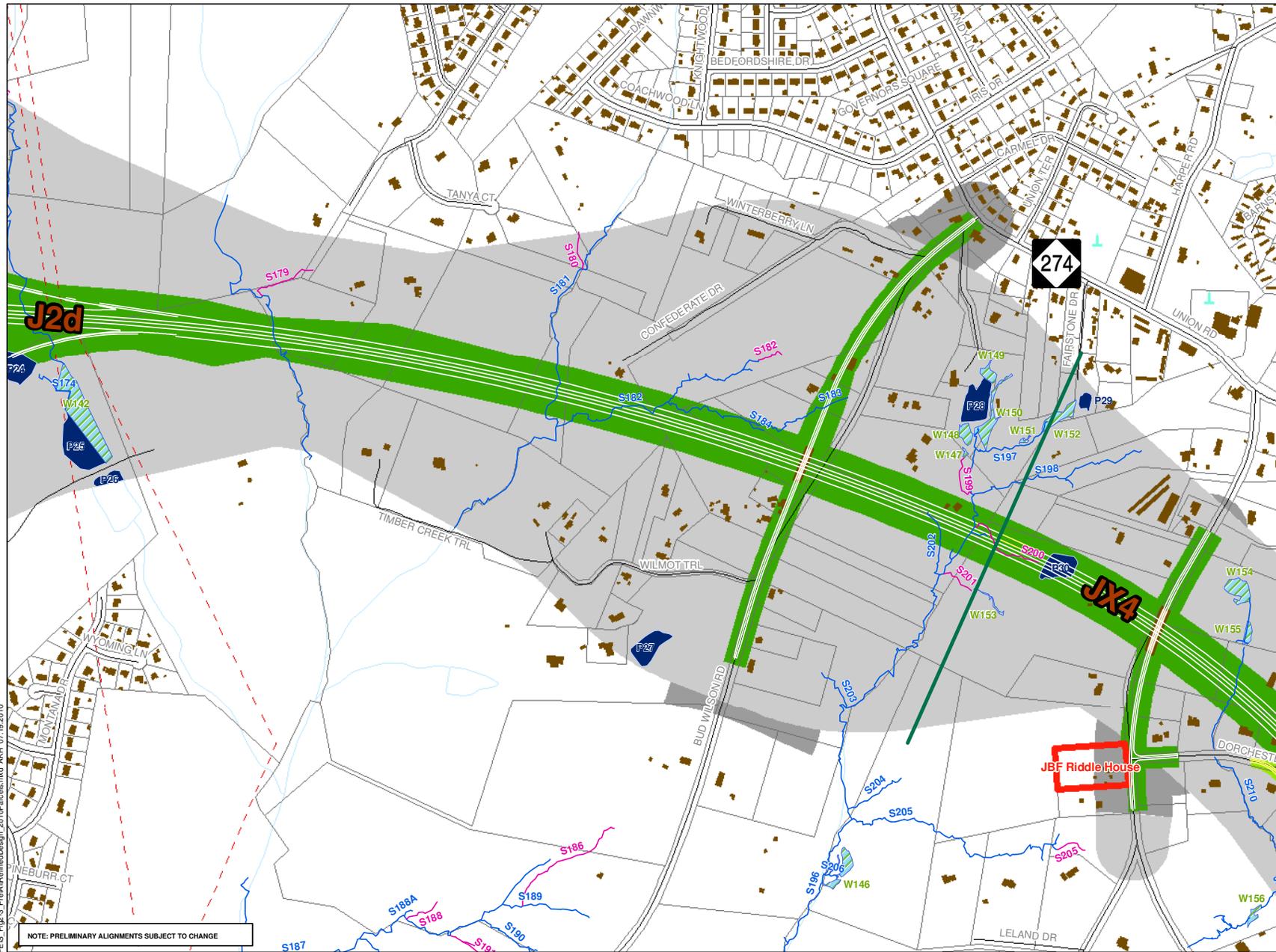
**GASTON EAST-WEST CONNECTOR**

**PREFERRED ALTERNATIVE REFINED DESIGN**

**Figure 2-3 h**

FEEB\_Fig2-3\_PrefAltRefinedDesign\_2010Parcels.mxd AKH 07.19.2010

NOTE: PRELIMINARY ALIGNMENTS SUBJECT TO CHANGE



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NOTE: PRELIMINARY ALIGNMENTS SUBJECT TO CHANGE

- Legend**
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  - Power Transmission Lines
  - Substations
  - Rail/Roads
  - Streets
  - Segment Name



Source: Gaston and Mecklenburg Counties Map printed July 2010.

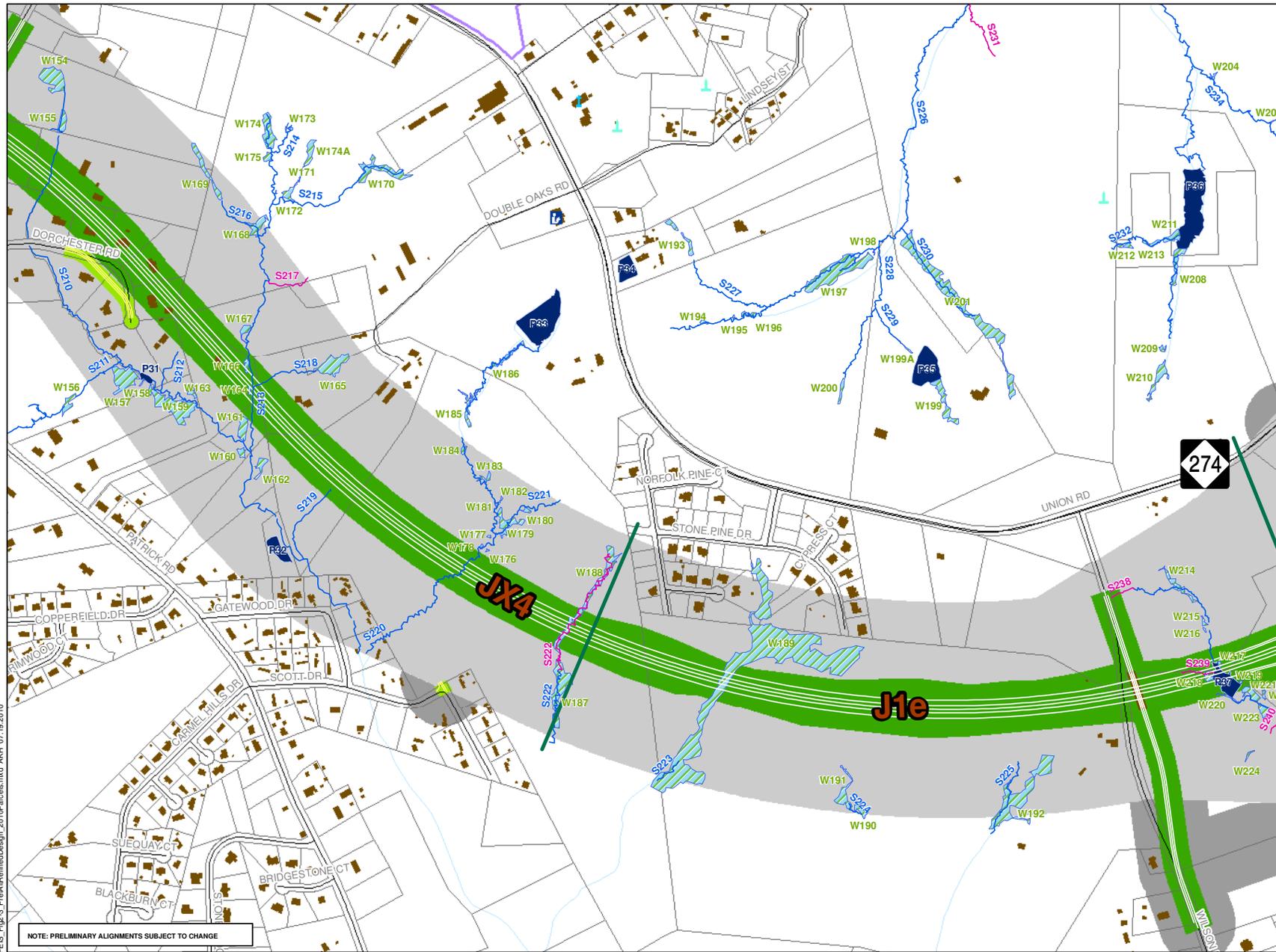


STIP PROJECT NO. U-3321  
 Gaston County and Mecklenburg County

GASTON EAST-WEST CONNECTOR

PREFERRED ALTERNATIVE REFINED DESIGN

Figure 2-3 i



FEB\_Fig2-3\_PrefAltRefinedDesign\_2010Parcels.mxd AKH 07.19.2010

NOTE: PRELIMINARY ALIGNMENTS SUBJECT TO CHANGE

**Legend**

- ▬ Preferred Alternative Refined Design
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- ▬ Preferred Alternative Refined Right of Way
- ▬ Preferred Alternative Service Rd Right of Way
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Source: Gaston and Mecklenburg Counties Map printed July 2010.

0 300 600 Feet

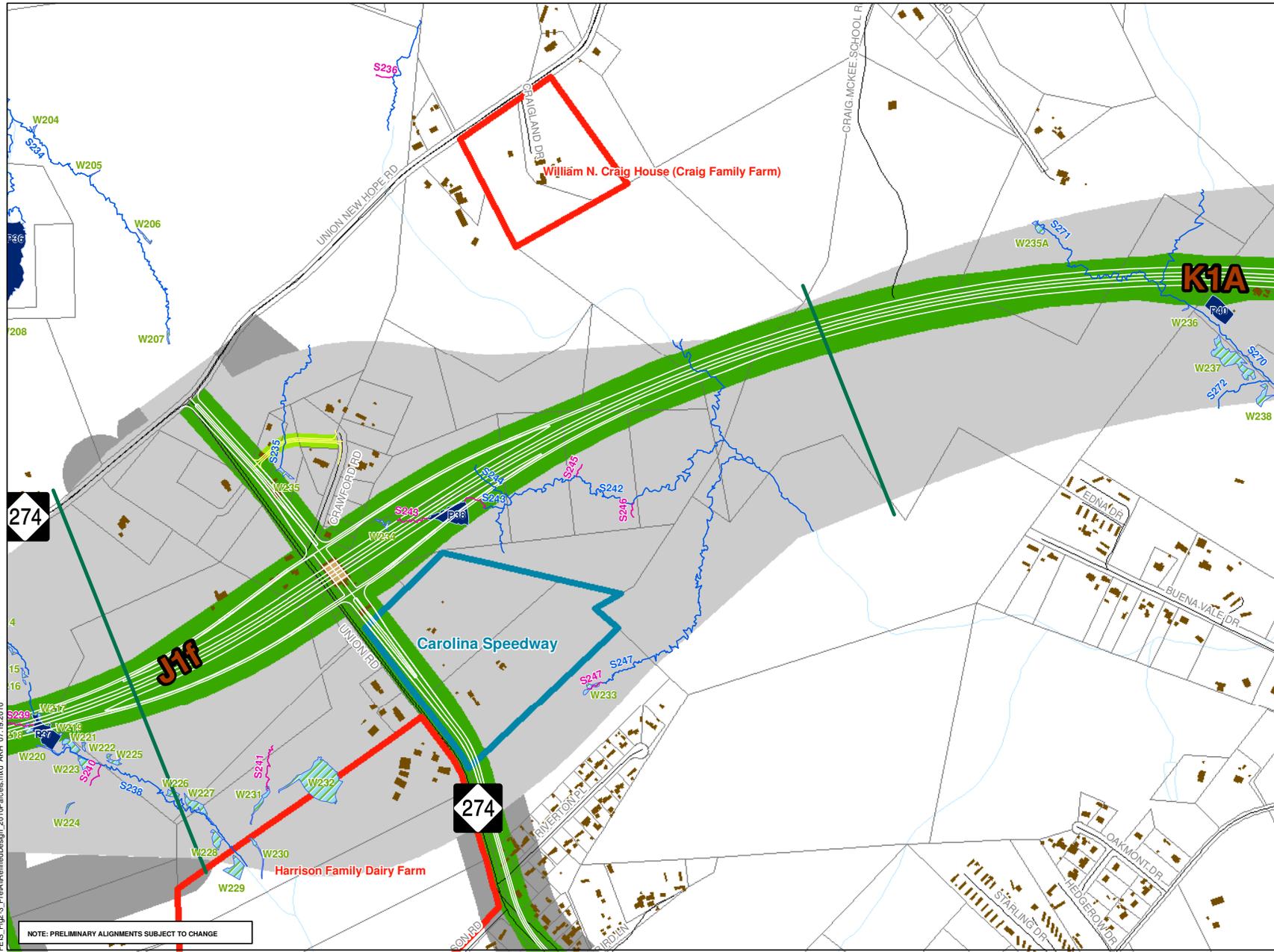
**NORTH CAROLINA Turnpike Authority**

STIP PROJECT NO. U-3321  
Gaston County and Mecklenburg County

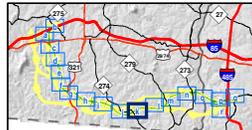
**GASTON EAST-WEST CONNECTOR**

**PREFERRED ALTERNATIVE REFINED DESIGN**

**Figure 2-3 j**



- Legend**
- Preferred Alternative Refined Design
  - Preferred Alternative Service Road Design
  - Preferred Alternative Refined Right of Way
  - Preferred Alternative Service Rd Right of Way
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  - Streets
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Source: Gaston and Mecklenburg Counties Map printed July 2010.



STIP PROJECT NO. U-3321  
Gaston County and Mecklenburg County

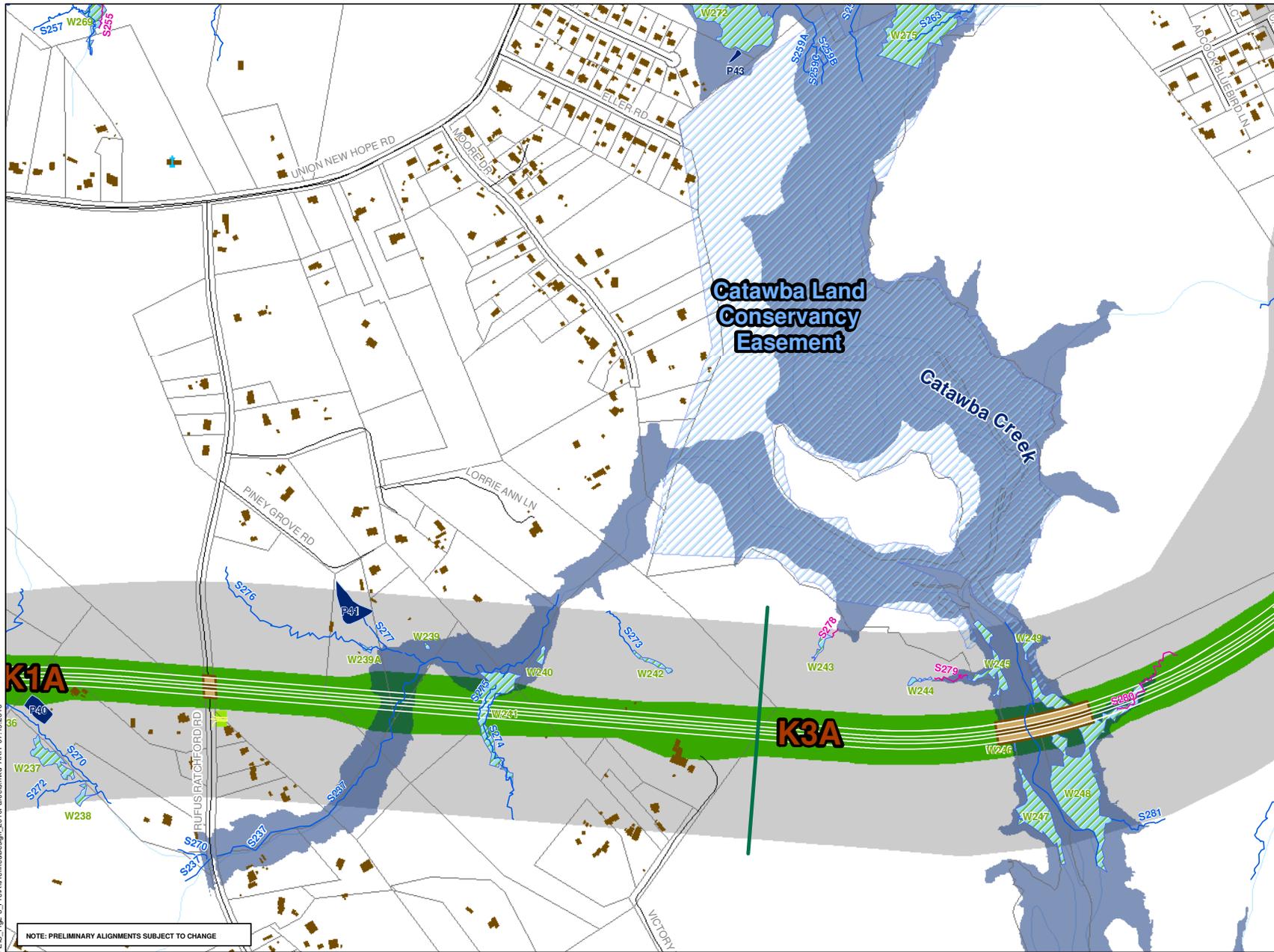
GASTON EAST-WEST CONNECTOR

PREFERRED ALTERNATIVE REFINED DESIGN

Figure 2-3 k

FEB\_2010\_23\_PrefAltRefinedDesign\_2010Parcels.mxd AKH 07/19/2010

NOTE: PRELIMINARY ALIGNMENTS SUBJECT TO CHANGE



- Legend**
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  - █ Preferred Alternative Refined Right of Way
  - █ Preferred Alternative Service Rd Right of Way
  - █ Preferred Alternative Bridges
  - █ Segment Breaks
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  - Power Transmission Lines
  - + Substations
  - Rail/Roads
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Source: Gaston and Mecklenburg Counties  
Map printed July 2010.



STIP PROJECT  
NO. U-3321  
Gaston County and  
Mecklenburg County

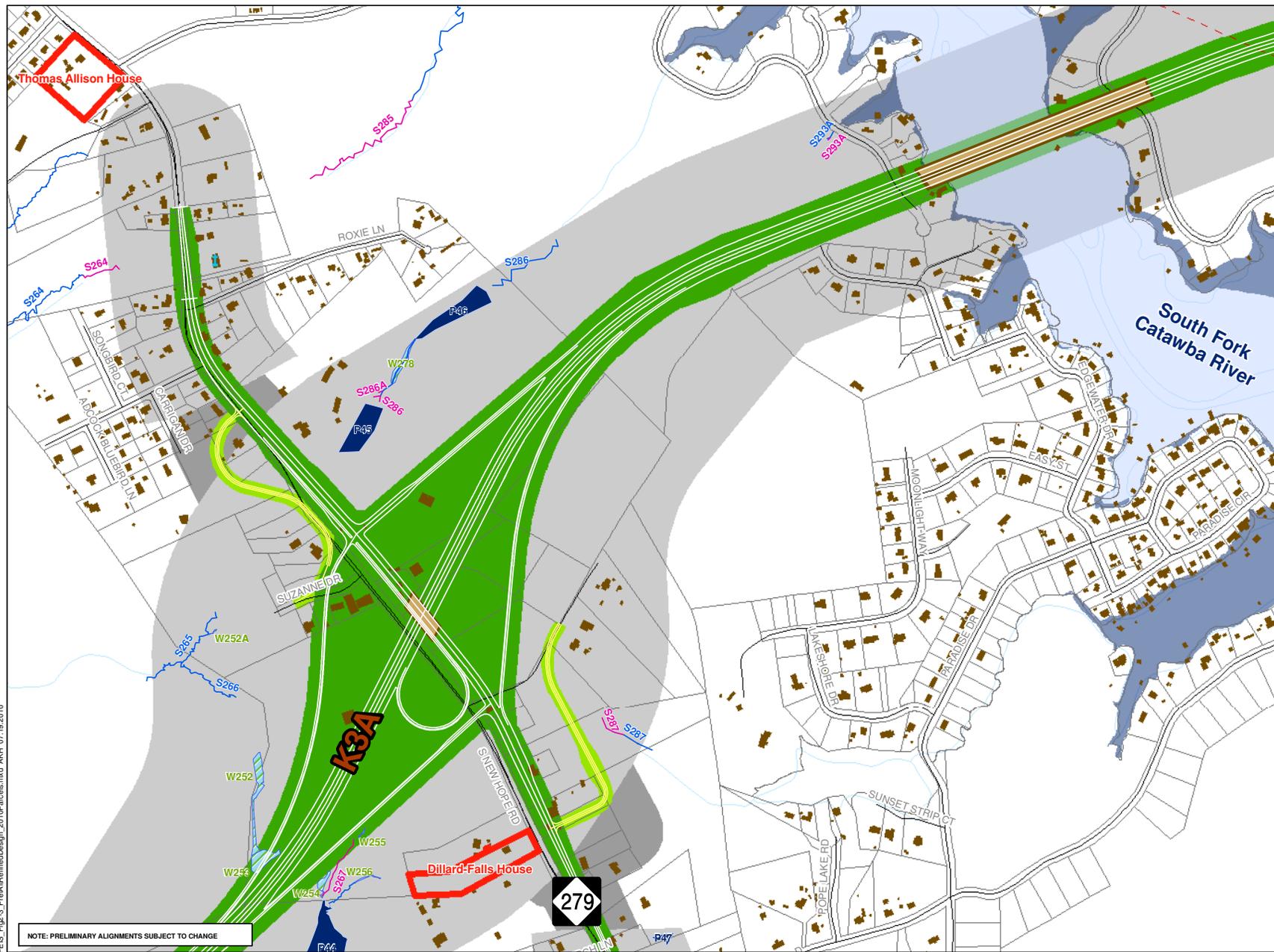
**GASTON EAST-WEST  
CONNECTOR**

**PREFERRED  
ALTERNATIVE  
REFINED DESIGN**

**Figure 2-3I**

FEG, Fig-3, PrefAltRefinedDesign\_2010Parcels.mxd AKH, 07/19/2010

NOTE: PRELIMINARY ALIGNMENTS SUBJECT TO CHANGE



- Preferred Alternative Refined Design
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Source: Gaston and Mecklenburg Counties Map printed July 2010.



STIP PROJECT NO. U-3321  
Gaston County and Mecklenburg County

GASTON EAST-WEST CONNECTOR

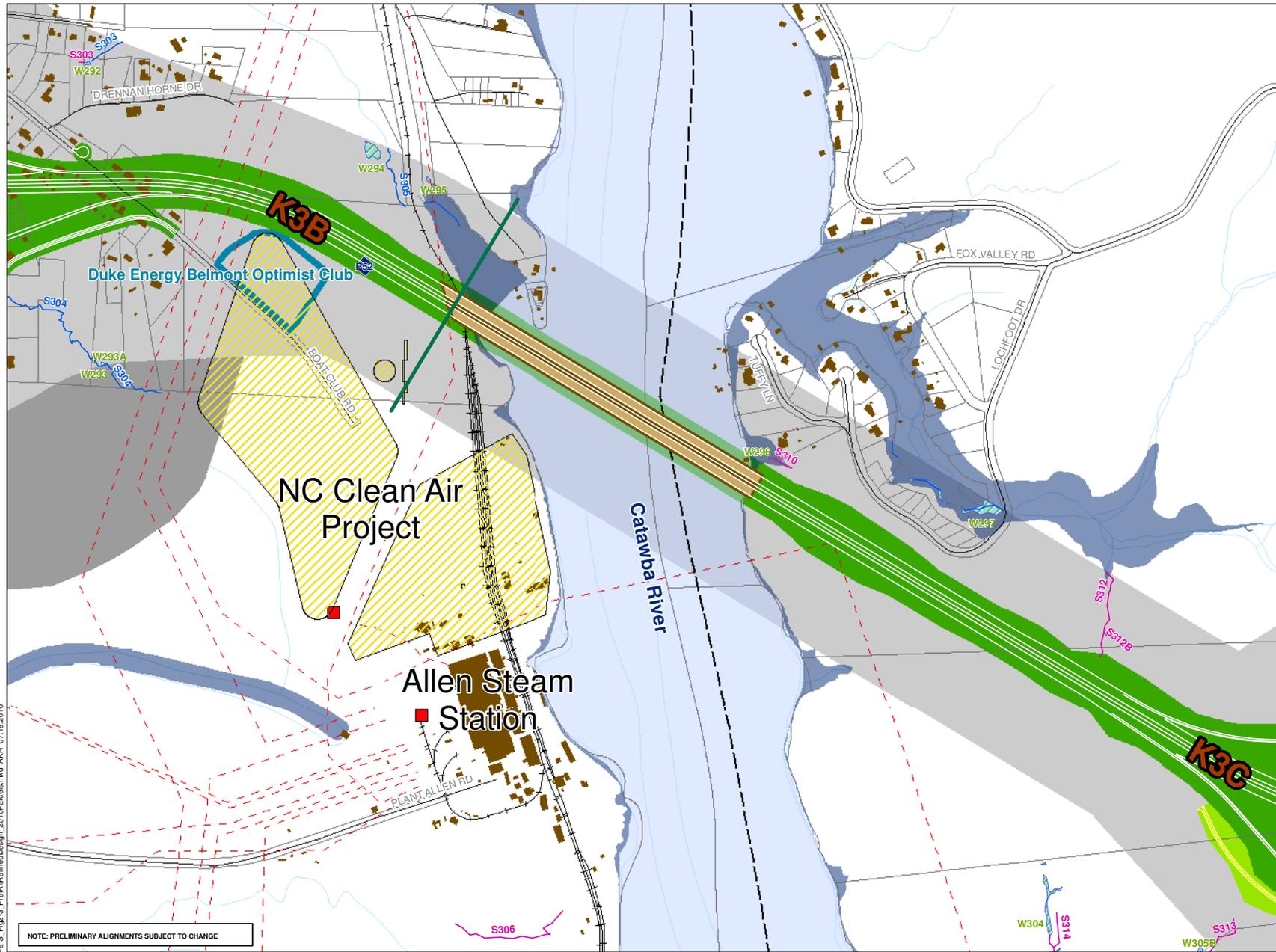
PREFERRED ALTERNATIVE REFINED DESIGN

Figure 2-3 m

FEG\_Fig-3\_PrefAltRefinedDesign\_2010Parcels.mxd AKH 07.19.2010

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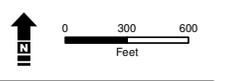




- Legend**
- Preferred Alternative Refined Design
  - Preferred Alternative Service Road Design
  - Preferred Alternative Refined Right of Way
  - Preferred Alternative Service Rd Right of Way
  - Preferred Alternative Bridges
  - Segment Breaks
  - Additional DSA Corridor
  - Original DSA Corridor
  - Parcels
  - Surveyed Intermittent Stream
  - Surveyed Perennial Stream
  - Surveyed Wetlands
  - Surveyed Ponds
  - Floodway
  - 100 Yr. Floodplain
  - Other Hydrology
  - Cemeteries
  - Churches in DSA
  - Schools
  - School Property
  - Structures
  - Historic Sites on-eligible NRHP
  - Natural Heritage Occurrence Sites
  - NatHeritageProgOccAreasCLIP
  - Superfund Sites
  - Parks
  - Private Recreation Facilities and Attractions
  - Power Transmission Lines
  - Substations
  - RailRoads
  - Streets
  - Segment Name



Source: Gaston and Mecklenburg Counties  
Map printed July 2010.



**NORTH CAROLINA Turnpike Authority**

STIP PROJECT  
NO. U-3321  
Gaston County and  
Mecklenburg County

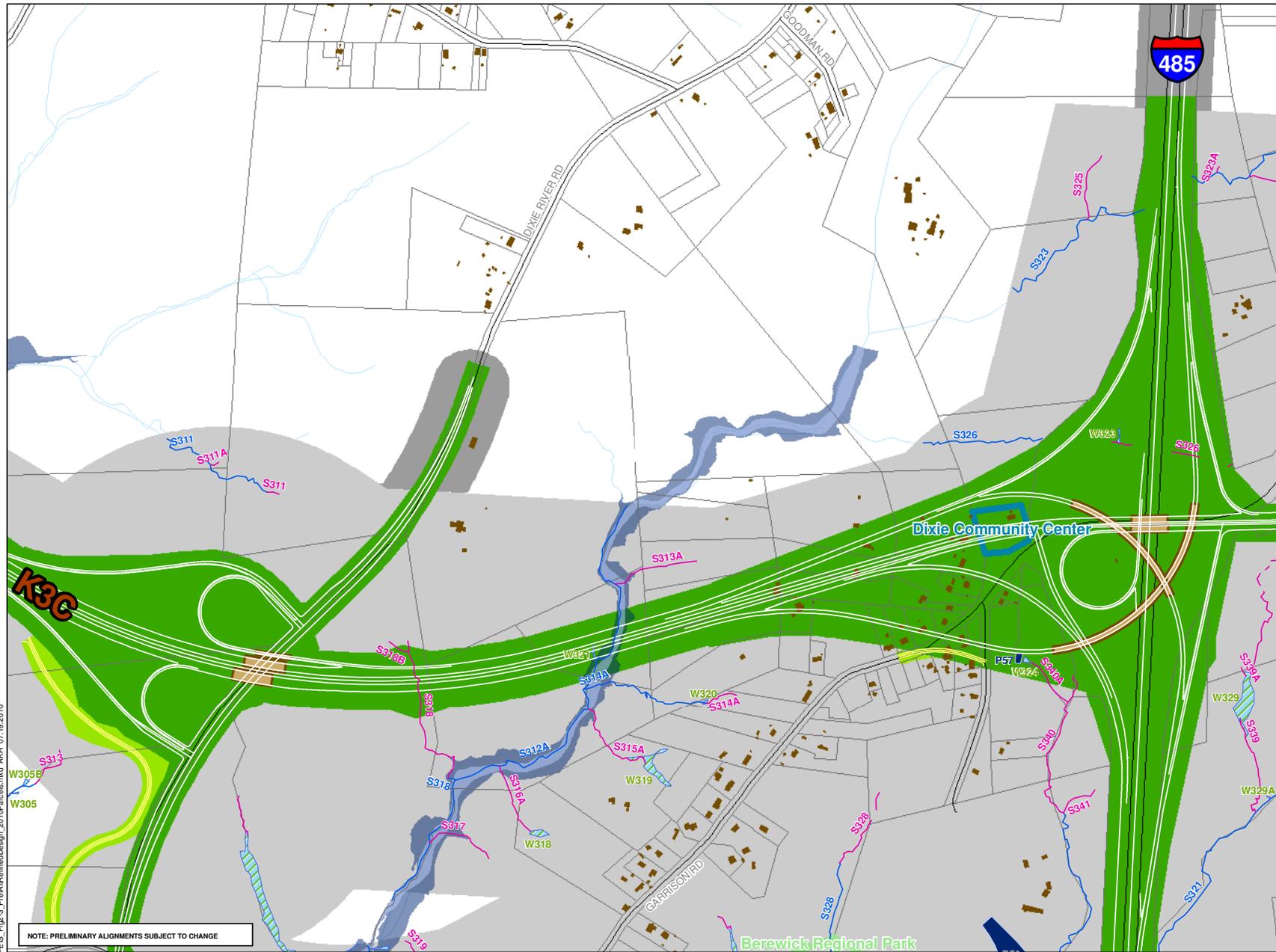
**GASTON EAST-WEST CONNECTOR**

**PREFERRED ALTERNATIVE REFINED DESIGN**

**Figure 2-3 o**

FEE\_Fig-3\_PrefAltRefinedDesign\_2010Parcels.mxd AKH 07.19.2010

NOTE: PRELIMINARY ALIGNMENTS SUBJECT TO CHANGE



FEB\_Fig-3\_PrefAltRefinedDesign\_2010 Parcels.mxd AKH 07.19.2010

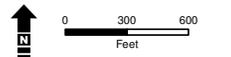
NOTE: PRELIMINARY ALIGNMENTS SUBJECT TO CHANGE

**Legend**

- Preferred Alternative Refined Design
- Preferred Alternative Service Road Design
- Preferred Alternative Refined Right of Way
- Preferred Alternative Service Rd Right of Way
- Preferred Alternative Bridges
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- Private Recreation Facilities and Attractions
- Power Transmission Lines
- Substations
- Railroads
- Streets
- Segment Name



Source: Gaston and Mecklenburg Counties  
Map printed July 2010.



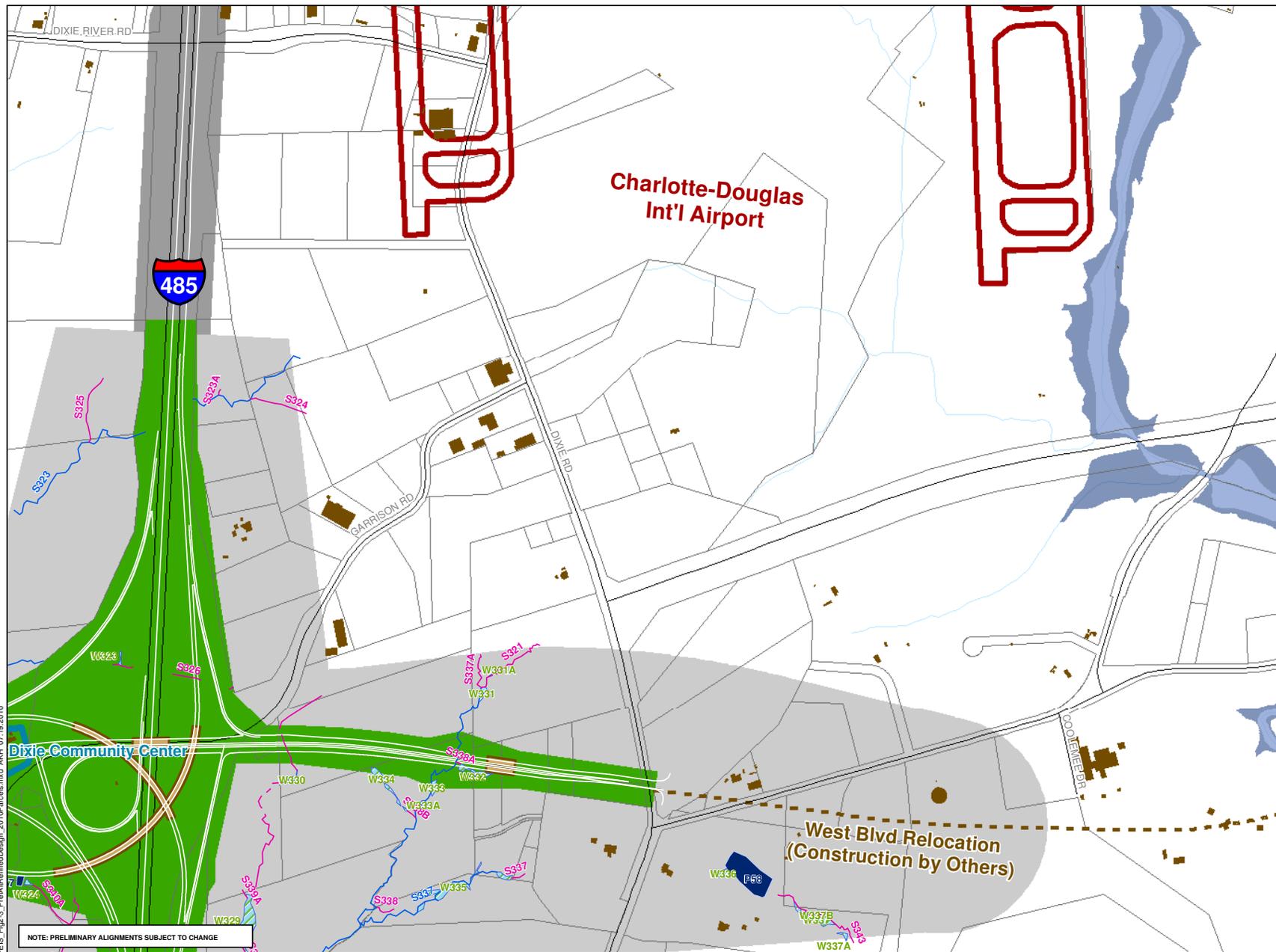
**NORTH CAROLINA Turnpike Authority**

STIP PROJECT  
NO. U-3321  
Gaston County and  
Mecklenburg County

**GASTON EAST-WEST CONNECTOR**

**PREFERRED ALTERNATIVE REFINED DESIGN**

Figure 2-3 p



FEE\_Fig\_3\_PrefARefinedDesign\_2010Parcels.mxd AKI\_07\_19\_2010

NOTE: PRELIMINARY ALIGNMENTS SUBJECT TO CHANGE

**Legend**

- Preferred Alternative Refined Design
- Preferred Alternative Service Road Design
- Preferred Alternative Refined Right of Way
- Preferred Alternative Service Rd Right of Way
- Preferred Alternative Bridges
- Segment Breaks
- Additional DSA Corridor
- Original DSA Corridor
- Parcels
- Surveyed Intermittent Stream
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- Floodway
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- Historic Sites on-eligible NRHP
- Natural Heritage Occurrence Sites
- NatHeritageProgOccAreasCLIP
- Superfund Sites
- Parks
- Private Recreation Facilities and Attractions
- Power Transmission Lines
- Substations
- RailRoads
- Streets
- Segment Name



Source: Gaston and Mecklenburg Counties  
Map printed July 2010.



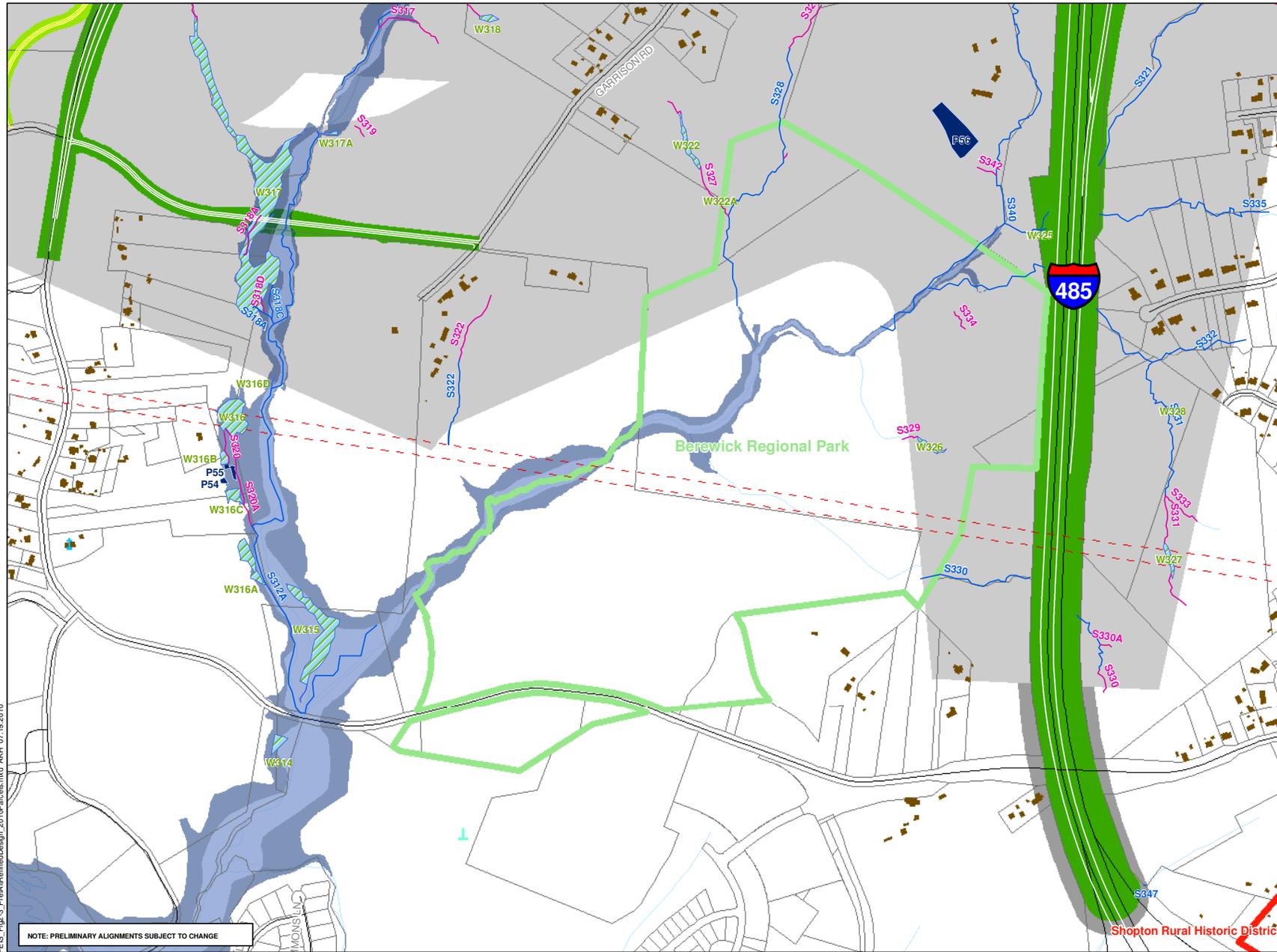
**NORTH CAROLINA Turnpike Authority**

STIP PROJECT  
NO. U-3321  
Gaston County and  
Mecklenburg County

**GASTON EAST-WEST CONNECTOR**

**PREFERRED ALTERNATIVE REFINED DESIGN**

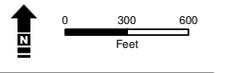
Figure 2-3 q



- Legend**
- Preferred Alternative Refined Design
  - Preferred Alternative Service Road Design
  - Preferred Alternative Refined Right of Way
  - Preferred Alternative Service Rd Right of Way
  - Preferred Alternative Bridges
  - Segment Breaks
  - Additional DSA Corridor
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  - Parcels
  - Surveyed Intermittent Stream
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  - Surveyed Wetlands
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  - Superfund Sites
  - Parks
  - Private Recreation Facilities and Attractions
  - Power Transmission Lines
  - Substations
  - RailRoads
  - Streets
  - Segment Name



Source: Gaston and Mecklenburg Counties Map printed July 2010.



**NORTH CAROLINA Turnpike Authority**

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Gaston County and Mecklenburg County

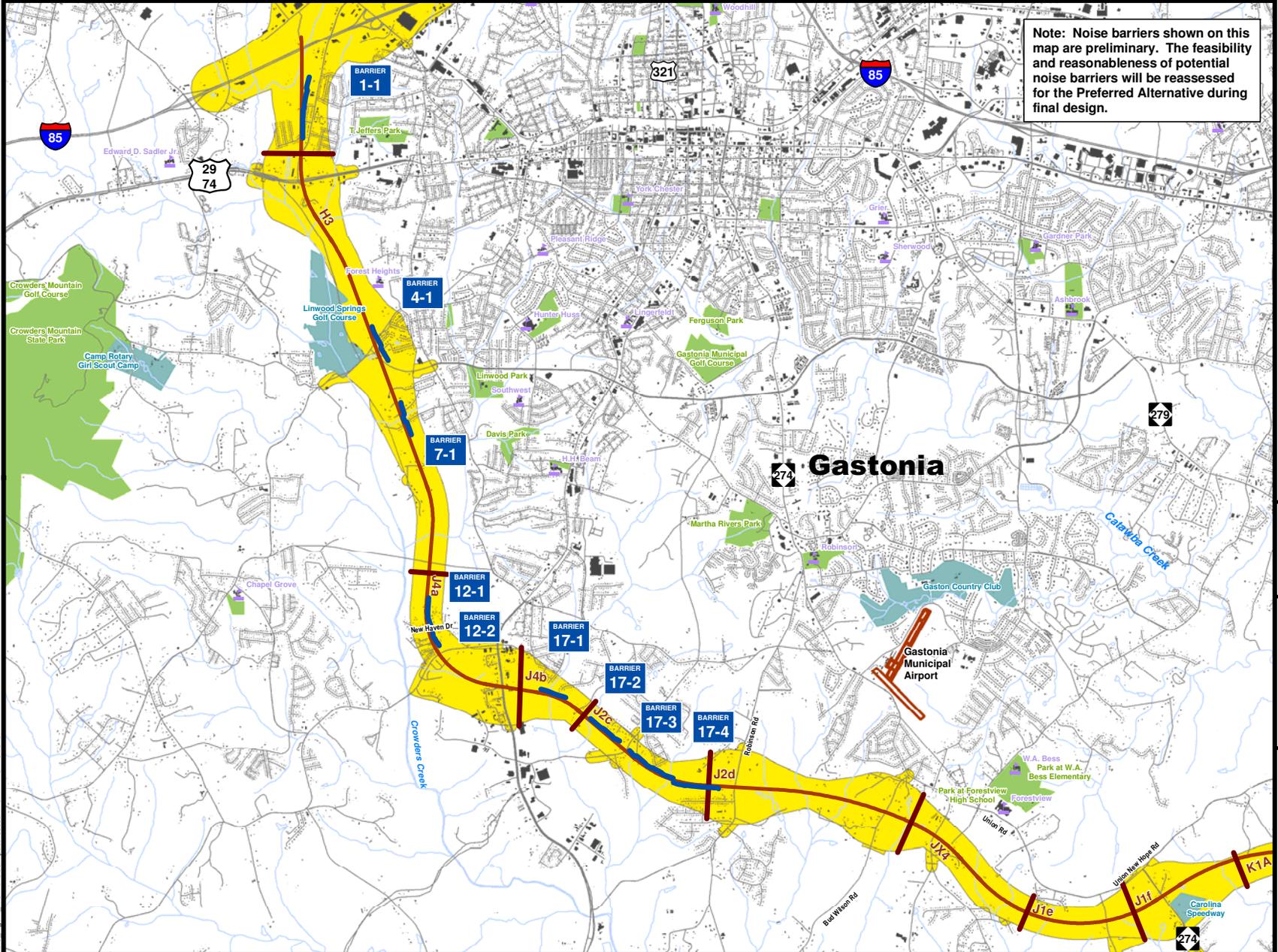
**GASTON EAST-WEST CONNECTOR**

**PREFERRED ALTERNATIVE REFINED DESIGN**

**Figure 2-3 r**

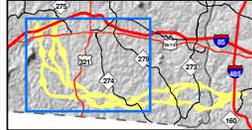
FEB\_Fig2-3\_PrefAltRefinedDesign\_2010Parcels.mxd AKH 07.19.2010

NOTE: PRELIMINARY ALIGNMENTS SUBJECT TO CHANGE

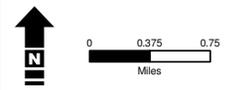


Note: Noise barriers shown on this map are preliminary. The feasibility and reasonableness of potential noise barriers will be reassessed for the Preferred Alternative during final design.

- Legend**
- Preliminary Noise Barriers
  - Preferred Alternative Refined Centerline
  - SegmentBreaks
  - Preferred Alternative Refined DSA Corridor
  - West Blvd Realignment (Construction by Others)
  - + Schools
  - County Line
  - State Line
  - Buildings
  - Streets
  - Hydrology
  - Parks
  - Private Recreation Facilities and Attractions
- K3ASegment Name**



Source: Gaston County and Mecklenburg County Map printed July 2010.

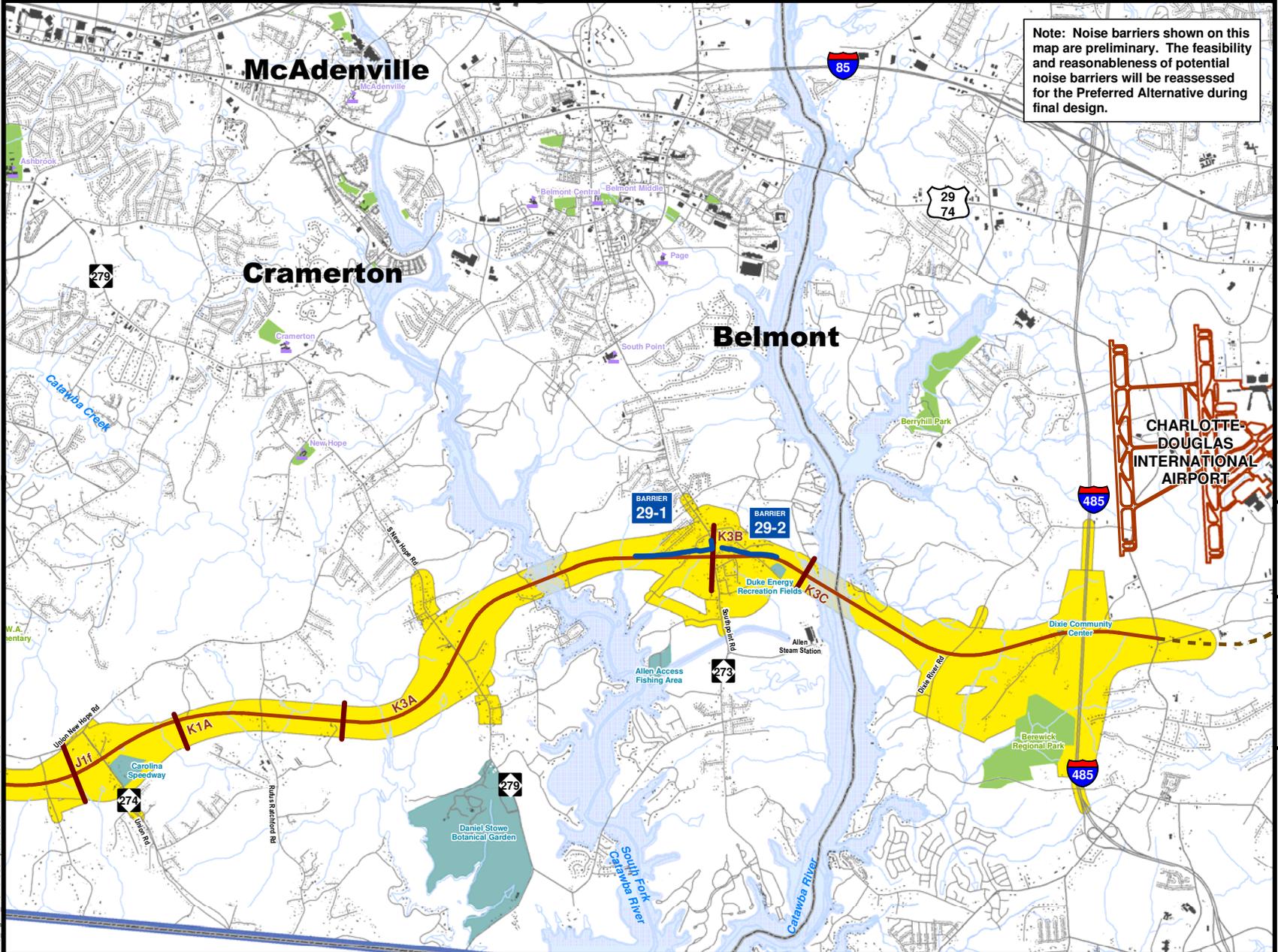


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Gaston County and Mecklenburg County

**GASTON EAST-WEST CONNECTOR**

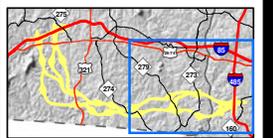
**PREFERRED ALTERNATIVE NOISE IMPACT ASSESSMENT**

Figure 2-4a



Note: Noise barriers shown on this map are preliminary. The feasibility and reasonableness of potential noise barriers will be reassessed for the Preferred Alternative during final design.

- Legend**
- Preliminary Noise Barriers
  - Preferred Alternative Refined Centerline
  - SegmentBreaks
  - Preferred Alternative Refined DSA Corridor
  - West Blvd Realignment (Construction by Others)
  - Schools
  - County Line
  - State Line
  - Buildings
  - Streets
  - Hydrology
  - Parks
  - Private Recreation Facilities and Attractions
- K3A Segment Name**



Source: Gaston County and Mecklenburg County Map printed July 2010.

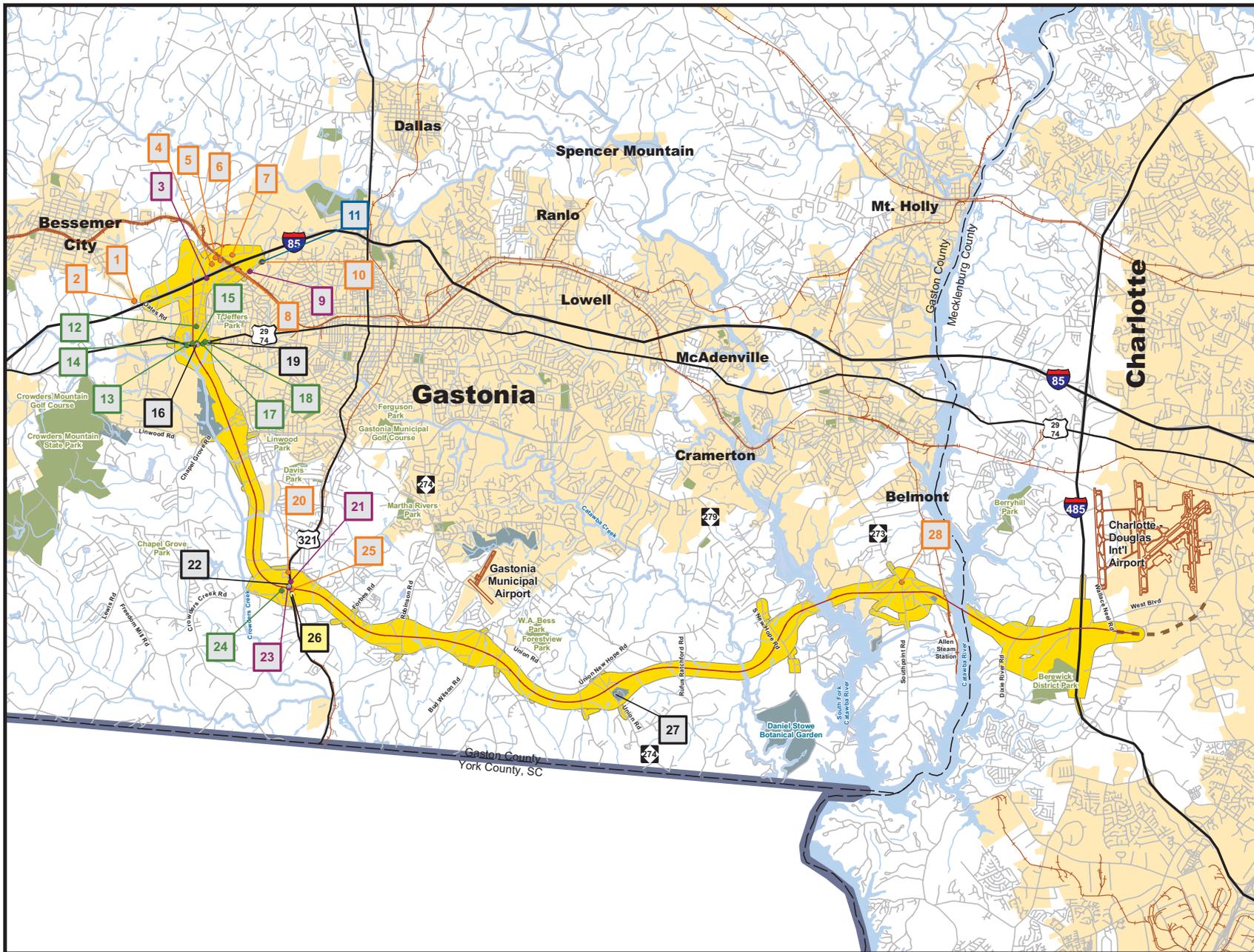


STIP PROJECT NO. U-3321  
Gaston County and Mecklenburg County

**GASTON EAST-WEST CONNECTOR**

**PREFERRED ALTERNATIVE NOISE IMPACT ASSESSMENT**

Figure 2-4b



- Legend**
- Ground Water Incident
  - Hazardous Waste Site
  - Junk Yard
  - Manufacturing
  - Other
  - Underground Storage Tank
  - 1 Site Identification Number\*
  - Alternative 9 Centerline
  - Alternative 9 DSACorridor
  - West Blvd Realignment (Construction by Others)
  - Parks
  - Private Recreation Facilities and Attractions
  - County Lines
  - State Line
  - Interstates
  - US Routes
  - Streets
  - Railroad
  - Hydrology
  - City Limits
- \* See Table in Chapter 2 of the FEIS.
- Source: Gaston County and Mecklenburg County GIS Map printed February 2010.

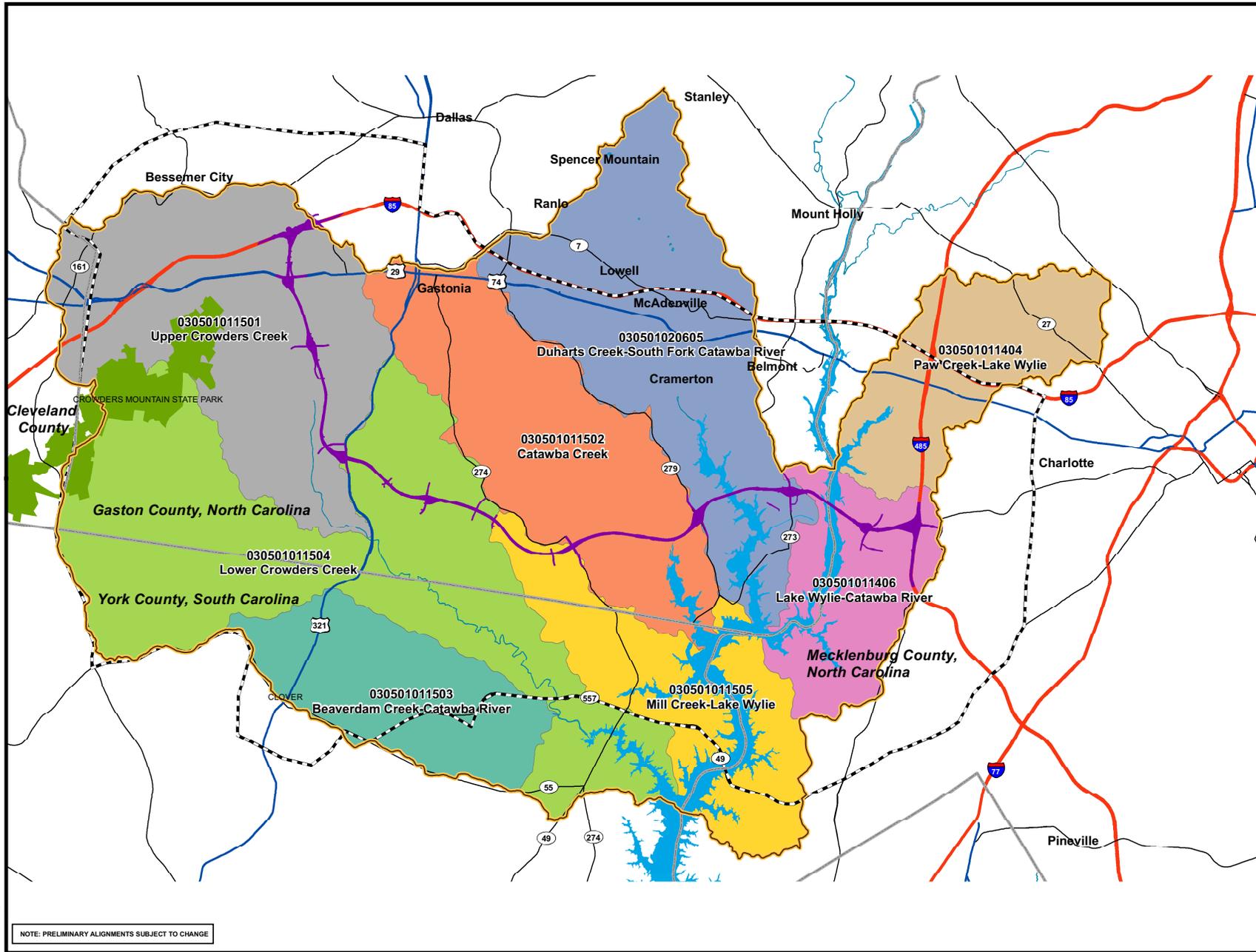


STIP PROJECT  
NO. U-3321  
Gaston County and  
Mecklenburg County

**GASTON EAST-WEST  
CONNECTOR**

**HAZARDOUS  
MATERIALS SITES**

Figure 2-5



- Legend**
- Quantitative ICE Study Area Boundary
  - 2009 Qualitative ICE Study Area
  - Preferred Alternative
- Study Area HUC 12 Subwatersheds**
- Beaverdam Creek-Catawba River
  - Catawba Creek
  - Duharts Creek- South Fork Catawba River
  - Lake Wylie- Catawba River
  - Lower Crowders Creek
  - Mill Creek- Lake Wylie
  - Paw Creek- Lake Wylie
  - Upper Crowders Creek

Source: Gaston East-West Connector Quantitative Indirect and Cumulative Effects Analysis Louis Berger Group, Aug. 2010

NOT TO SCALE



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Gaston County and Mecklenburg County

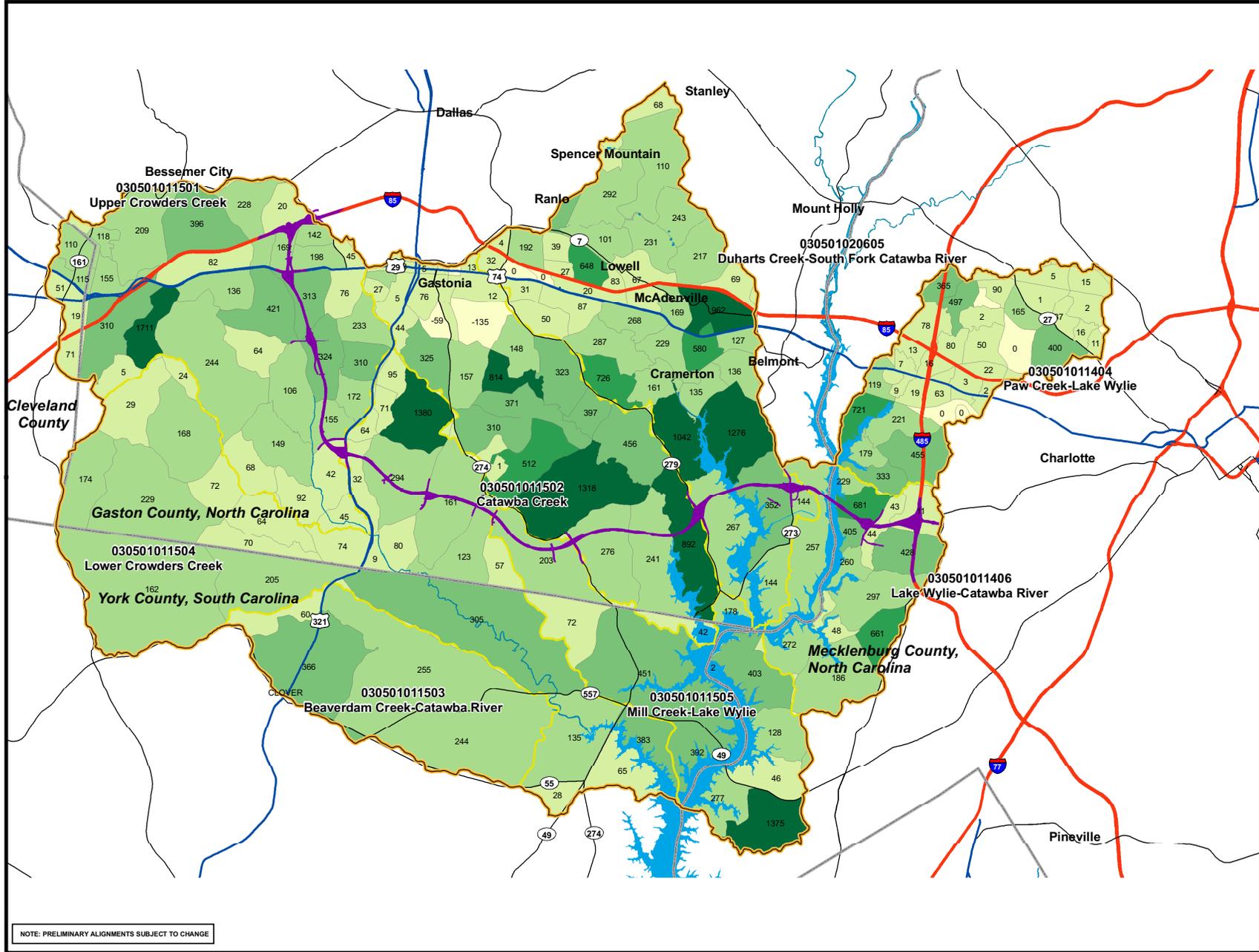
**GASTON EAST-WEST CONNECTOR**

**COMPARISON OF QUALITATIVE AND QUANTITATIVE ICE STUDY AREAS**

Figure 2-6

NOTE: PRELIMINARY ALIGNMENTS SUBJECT TO CHANGE

FILE: Fig\_2-6\_ComparisonQualQuantICE.mxd 08/05/2010 10:05 AM



- Legend**
- Quantitative ICE Study Area Boundary
  - Study Area HUC 12 Subwatersheds
  - Preferred Alternative

- Absolute Change in Households 2005 to 2035**
- 135 to 0
  - 1 to 100
  - 101 to 300
  - 301 to 500
  - 501 to 800
  - 801 to 1,711

Source: Gaston East-West Connector Quantitative Indirect and Cumulative Effects Analysis Louis Berger Group, Aug. 2010

NOT TO SCALE



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Gaston County and Mecklenburg County

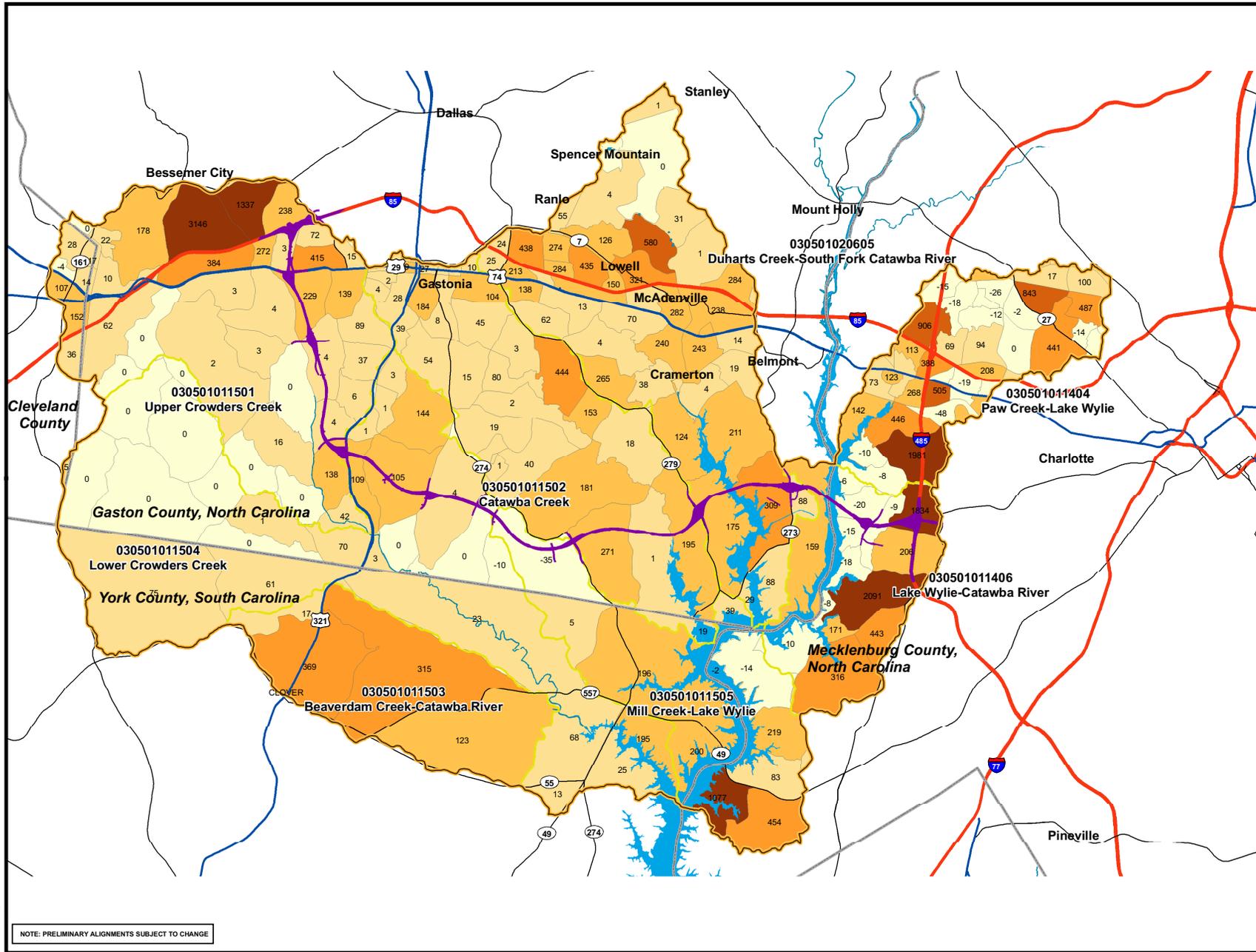
**GASTON EAST-WEST CONNECTOR**

**ABSOLUTE CHANGE IN HOUSEHOLDS 2005-2035 NO BUILD COMPARISON**

Figure 2-7

FILE: Fig 2\_AbsoluteChangeHouseholdsBul.a1\_AKH0105\_2010 (From ICE)

NOTE: PRELIMINARY ALIGNMENTS SUBJECT TO CHANGE



- Legend**
- Quantitative ICE Study Area Boundary
  - Study Area HUC 12 Subwatersheds
  - Preferred Alternative

- Absolute Change in Employment 2005 to 2035**
- 48 to 0
  - 1 to 100
  - 101 to 300
  - 301 to 500
  - 501 to 1,000
  - 1,001 to 3,146

Source: Gaston East-West Connector Quantitative Indirect and Cumulative Effects Analysis Louis Berger Group, Aug. 2010

NOT TO SCALE



STIP PROJECT NO. U-3321  
Gaston County and Mecklenburg County

**GASTON EAST-WEST CONNECTOR**

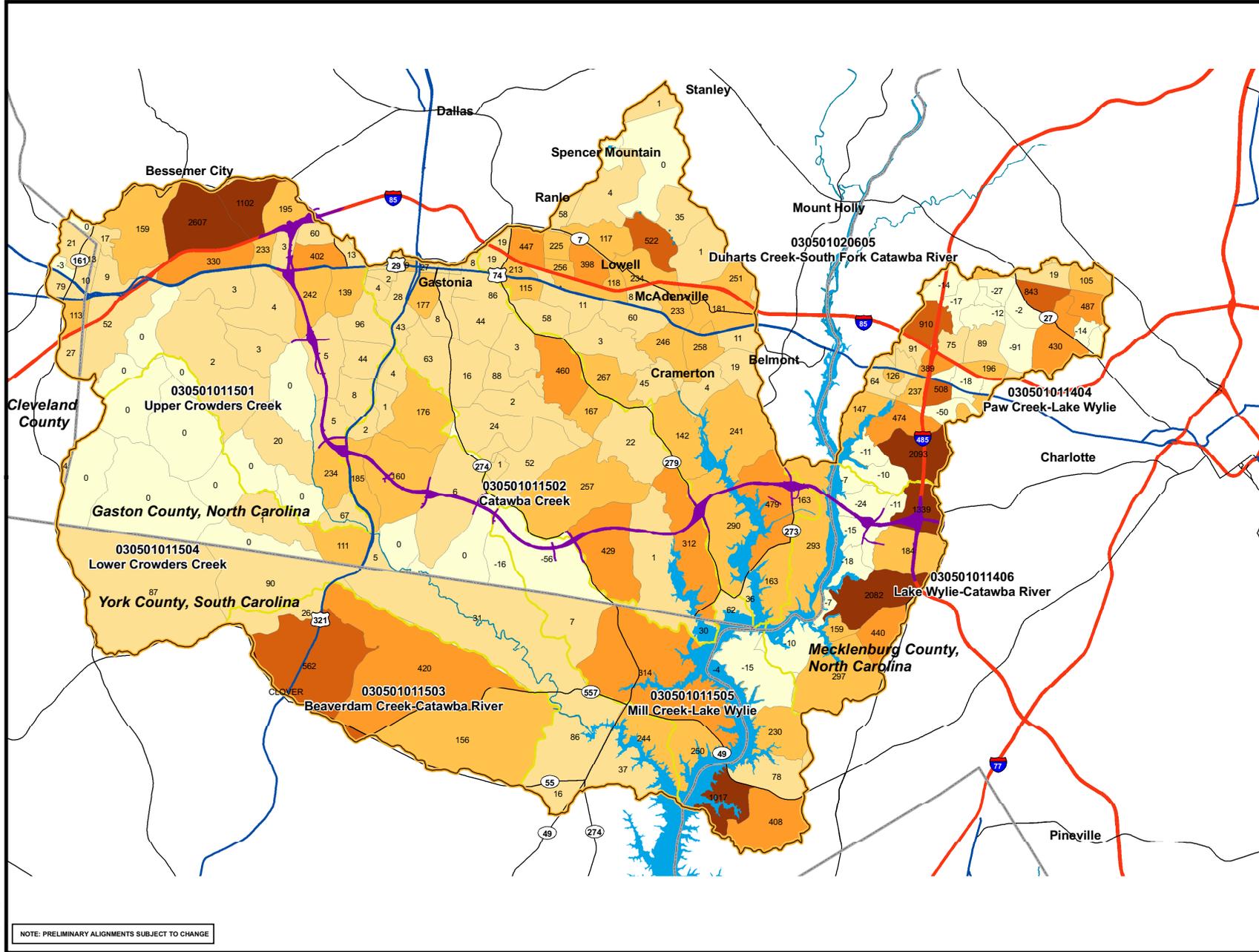
**ABSOLUTE CHANGE IN EMPLOYMENT 2005-2035 NO BUILD COMPARISON**

Figure 2-8

FILE: Fig 2-8\_AbsoluteChangeEmploymentKb.dwg; AKR: 08.05.2016; (From ICE)

NOTE: PRELIMINARY ALIGNMENTS SUBJECT TO CHANGE





- Legend**
- Quantitative ICE Study Area Boundary
  - Study Area HUC 12 Subwatersheds
  - Preferred Alternative

- Absolute Change in Employment 2005 to 2035**
- 91 to 0
  - 1 to 100
  - 101 to 300
  - 301 to 500
  - 501 to 1,000
  - 1,001 to 2,607

Source: Gaston East-West Connector Quantitative Indirect and Cumulative Effects Analysis Louis Berger Group, Aug. 2010

NOT TO SCALE



STIP PROJECT NO. U-3321  
Gaston County and Mecklenburg County

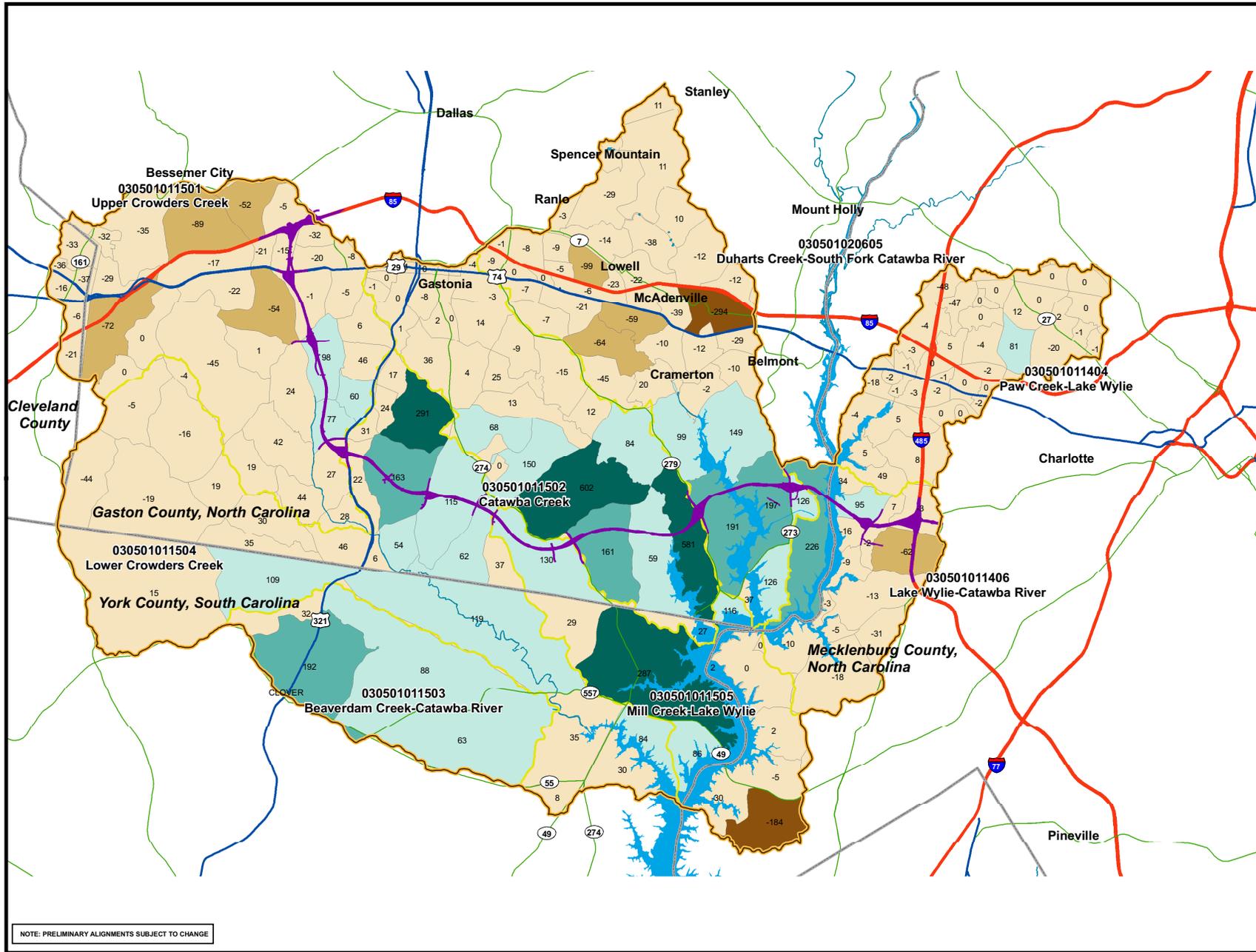
**GASTON EAST-WEST CONNECTOR**

**ABSOLUTE CHANGE IN EMPLOYMENT 2005-2035 BUILD COMPARISON**

Figure 2-10

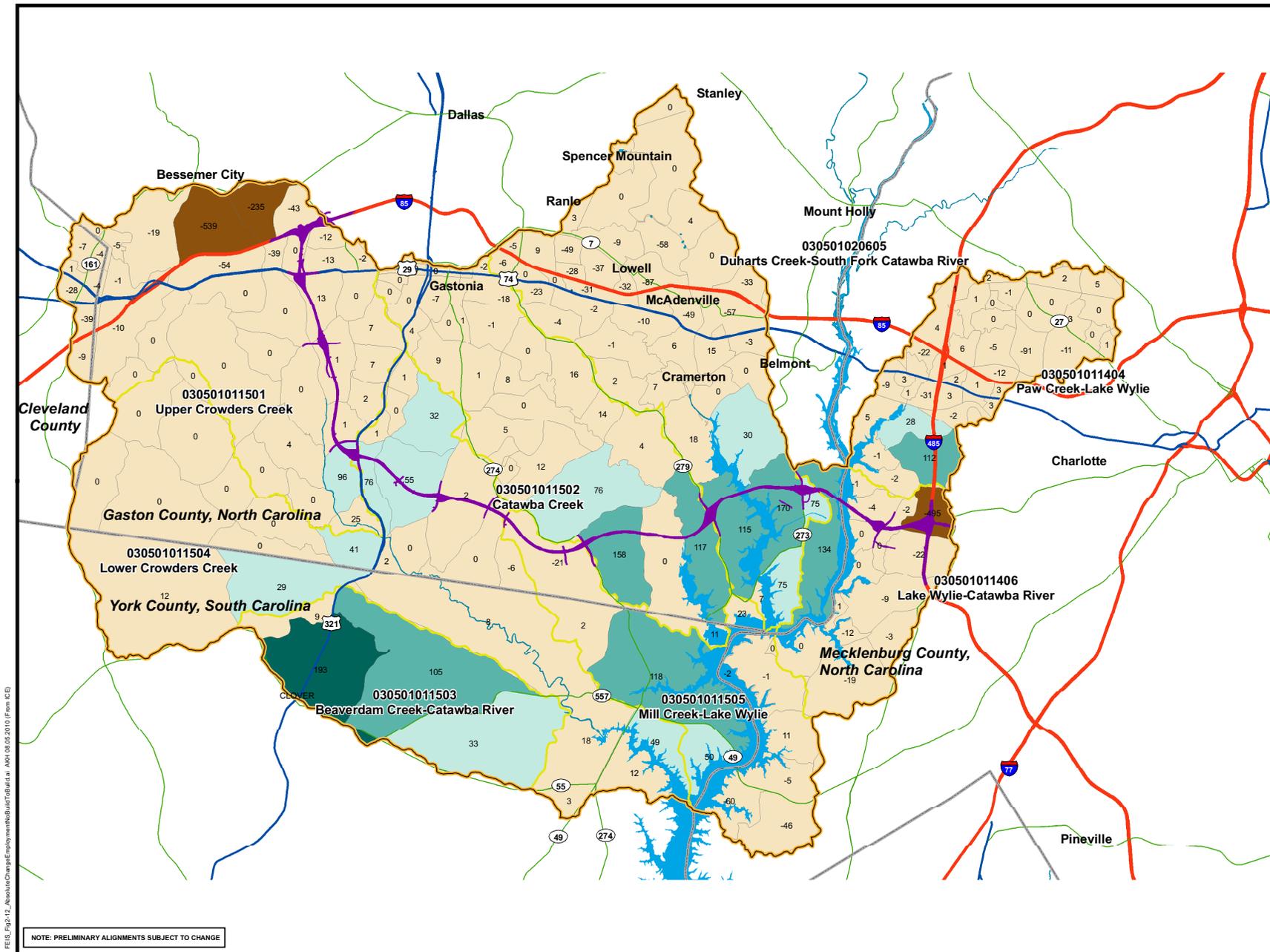
NOTE: PRELIMINARY ALIGNMENTS SUBJECT TO CHANGE

FEIS\_Fig-10\_AbsoluteChangeEmploymentBuild\_AK1101\_08\_2010 (From ICE)



FEIS\_Fig-11\_AbsoluteChangeHouseholdsBuildtoNoBuild\_08.05.2010 (from ICE)

Figure 2-11



**Legend**

- Quantitative ICE
- Study Area HUC 12 Subwatersheds
- Preferred Alternative

**Absolute Change in Employment No Build to Build**

- 539 to -225
- 224 to -125
- 124 to 25
- 26 to 100
- 101 to 175
- 176 to 193

Source: Gaston East-West Connector Quantitative Indirect and Cumulative Effects Analysis Louis Berger Group, Aug. 2010

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Gaston County and Mecklenburg County

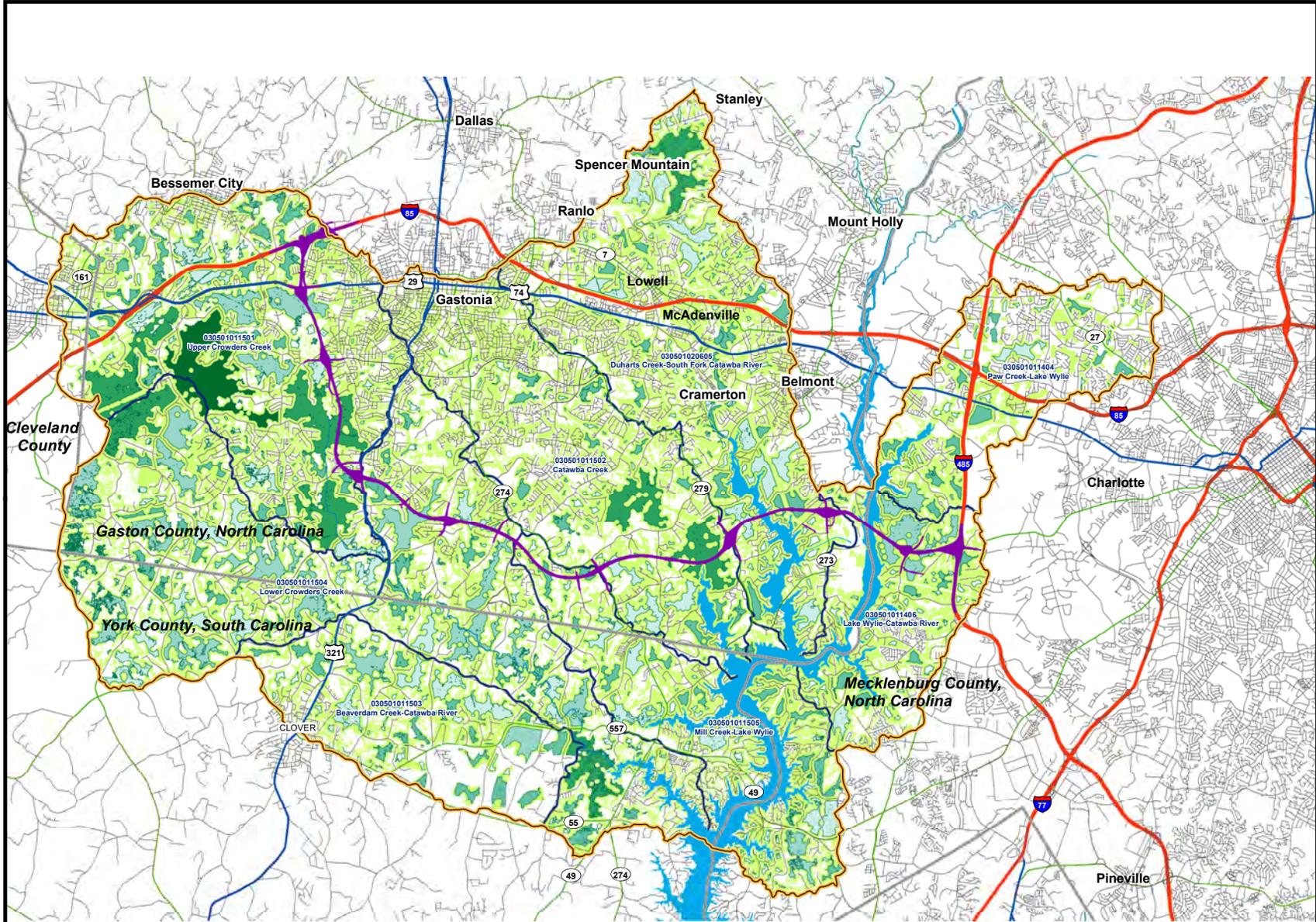
**GASTON EAST-WEST CONNECTOR**

**ABSOLUTE CHANGE IN EMPLOYMENT 2035 NO BUILD TO BUILD**

NOTE: PRELIMINARY ALIGNMENTS SUBJECT TO CHANGE

FEIS\_Fig-12\_AbsoluteChangeEmploymentNoBuildtoBuild\_Apr 08.05.2010 (from ICE)

Figure 2-12



**Legend**

- Quantitative ICE Study Area Boundary
- Study Area HUC 12 Subwatersheds
- Preferred Alternative
- 2007 Tree Cover

**Forest Interior Habitat (Greater than 300 feet from edges)**

- 1 to 20
- 21 to 100
- 101 to 200
- 201 to 500
- 501 to 1,000
- Greater than 1,000

Source: Gaston East-West Connector Quantitative Indirect and Cumulative Effects Analysis Louis Berger Group, Aug. 2010

NOT TO SCALE



STIP PROJECT NO. U-3321  
Gaston County and Mecklenburg County

**GASTON EAST-WEST CONNECTOR**

**TREE COVER AND FOREST INTERIOR HABITAT PATCHES**

NOTE: PRELIMINARY ALIGNMENTS SUBJECT TO CHANGE

FEIS\_Fig\_13\_TreeCover&ForestInteriorHabitat.mxd 05/20/10 AKK (from ICE)

Figure 2-13