

**APPENDIX G**  
**EXISTING NOISE MEASUREMENTS AND 2030 NOISE**  
**CONTOUR MAPS**



## APPENDIX G – EXISTING NOISE MEASUREMENTS AND 2030 NOISE CONTOUR MAPS

**TABLE G-1: Existing Noise Level Measurements**

Site Number	Location	Description	Measured Average Noise Level* (dBA Leq)
<b>Mecklenburg County</b>			
1	Buckland Rd Area (west of I-485 and off Dixie River Rd (SR 1155))	Background noise levels away from traffic	48
2	Garrison Rd Area (west of I-485 and east of Dixie River Rd (SR 1155))	Background noise levels away from traffic	50
<b>Gaston County</b>			
3	Brook Forest subdivision (located off Southpoint Rd (NC 273)); neighborhood streets include Brook Forest Dr, Forest Ln, and Singing Brook Tr	Background noise levels away from traffic	41
4	Area off Wildlife Rd (community east of Armstrong Rd (NC 273)); neighborhood streets include Midwood Ln, Wildlife Rd (SR 2527), and Idlewood Ln	Background noise levels away from traffic	45
5	Misty Waters subdivision (east of and/or homes on the Catawba River and west of Southpoint Rd (NC 273)); neighborhood streets include Wing Point Dr, Shorewood Pl, and Egret Ridge	Background noise levels away from traffic	42
6	Along New Hope Rd (NC 279) between Teakwood Ln and Dixon Rd near Daniel Stowe Botanical Garden	50 ft. from road—traffic noise on South New Hope Rd (NC 279)	60
7	Farmwood subdivision (between Union New Hope Road (SR 2435) and New Hope Rd (NC 279)); neighborhood streets include Hughey Dr; Lakhany Dr, and Ogden Dr	Background noise levels away from traffic	41
8	Vacant/undeveloped area on Union New Hope Rd (SR 2435) between Glover Rd and Rufus Ratchford Rd (SR 2432)	50 ft. from road—traffic noise on Union New Hope Rd (SR 2435)	59
9	Union Rd Branch Library fronted by Union Rd (NC 274) and accessed by Double Oaks Rd	50 ft. from road—traffic noise on Union Rd	67
10	Fox Run/Governor's Square subdivisions (west of Union Rd (NC 274) south of Gastonia Municipal Airport); neighborhood streets include Coachwood Ln and Knightwood Dr	Background noise levels away from traffic	46
11	Along Bud Wilson Rd (SR 2423) south of Union Rd (NC 274) and Wilmot Trail	50 ft. from road—traffic noise on Bud Wilson Rd	52
12	Saddlewood subdivision (west of and off Robinson Rd (SR 2416)); neighborhood streets include Saddlewood Dr, Pam Dr, and Stockwood Dr	Background noise levels away from traffic	45

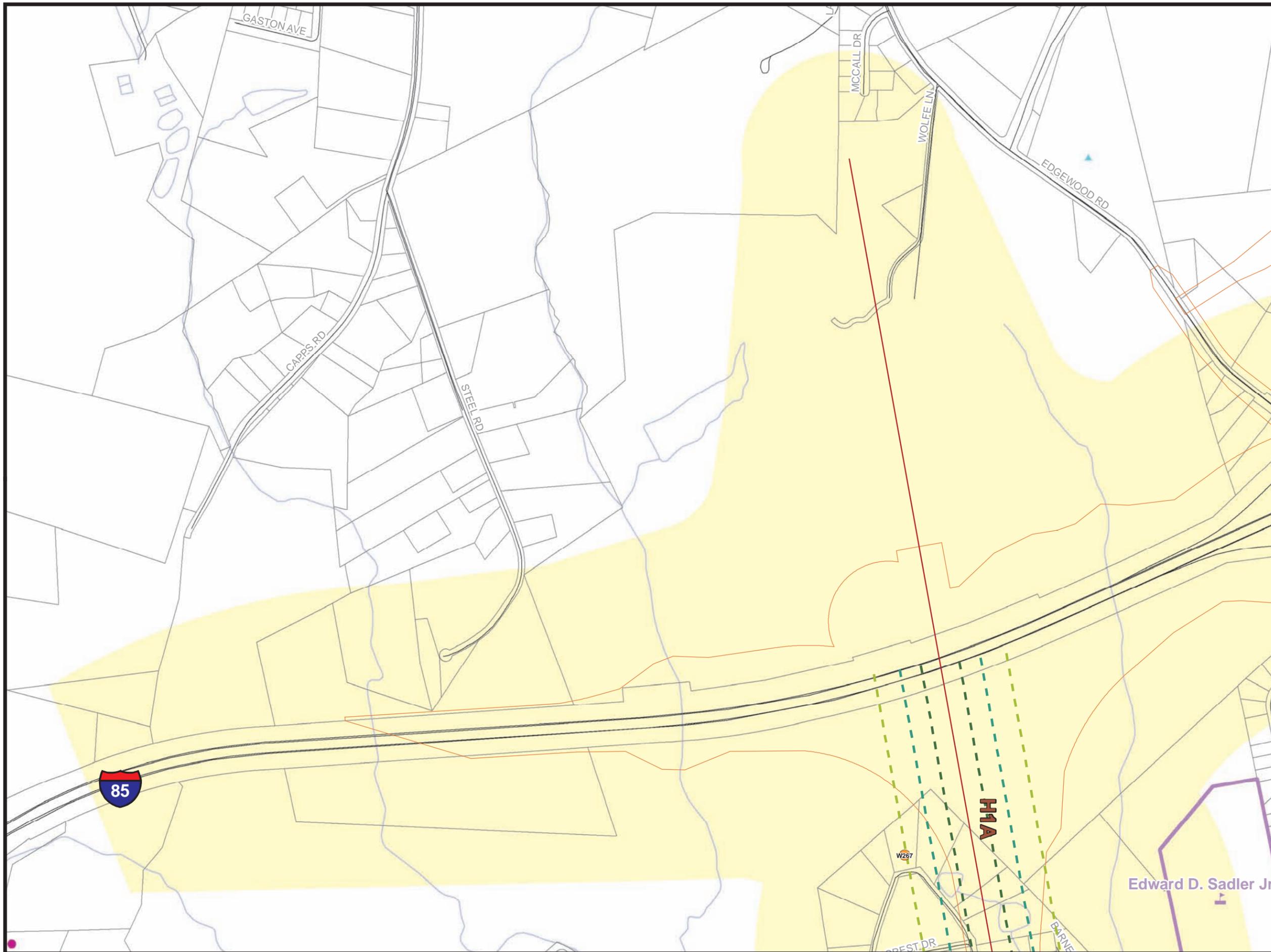
TABLE G-1: Existing Noise Level Measurements

Site Number	Location	Description	Measured Average Noise Level* (dBA Leq)
13	Along US 321 just south of Crowders Creek Rd (SR 1103) at Hoyle Cir	50 ft. from road—traffic noise on US 321	64
14	Bethany Acres Mobile Home Park; major streets nearby include Crowders Creek Rd (SR 1103) and Chapel Grove School Rd; neighborhood streets include Queensberry Dr and Showshoe Ct	Background noise levels away from traffic	50
15	Binwhe neighborhood (Oakley Park) west of/off Freedom Mill Rd (SR 1106); neighborhood streets include Binwhe Ln, King Crowder Dr, and Tekoa Dr	Background noise levels away from traffic	39
16	West Palm Acres subdivision east of/off Freedom Mill Rd (SR 1106); neighborhood streets include Ralphs Blvd, Branding Iron Dr, and Buckskin Dr	Background noise levels away from traffic	44
17	Along Linwood Rd (SR 1133) between Silver Creek Dr and Silverstone Dr west of Chapel Grove Rd (SR 1126)	50 ft. from road—traffic noise on Linwood Rd (SR 1133)	51
18	Near Forest Heights Elementary School and Linwood Springs Golf Course west of Myrtle School Rd (SR 1136) and off Linwood Rd (SR 1133)	Background noise levels away from traffic	56
19	Fallscrest subdivision west of/off Chapel Grove Rd (SR 1131); neighborhood streets include Maplewood Dr, Woodleaf Dr, and Greenleaf Dr	Background noise levels away from traffic	45
20	School off US 29-74 (Sadler Elementary) west of Edgewood Rd (SR 1307)	Background noise levels away from traffic	48
21	Along US 29-74 (Franklin Blvd) west of Shannon Bradley Rd (SR 1135) and east of Sante Cir	50 ft. from road—traffic noise on US 29-74	67
22	Neighborhood north of US 29-74 east of/off Shannon Bradley Rd (SR 1135); Spring Valley Apts; streets include Spring Valley Dr and Winston Dr	Background noise levels away from traffic	44

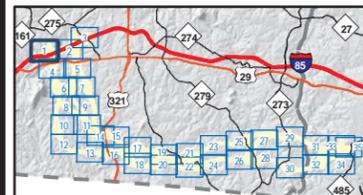
Source: *Traffic Noise Technical Memorandum for the Gaston East-West Connector* (PBS&J, July 2008)

\* Measured average noise levels rounded to the nearest whole number.

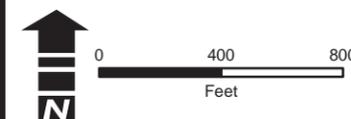
Figure 4-1 a-b shows the locations of the noise measurements.



- Legend**
- Receptor Points
  - SegmentBreaks
  - Preliminary Road Design
  - - - 60 dBA Leq
  - - - 66 dBA Leq
  - - - 71 dBA Leq
  - Right of Way
  - 📖 Libraries
  - Churches
  - ▲ Cemeteries
  - 🏫 Schools
  - ▣ School Property
  - Streets
  - ≡ Railroad
  - Parcels
  - Parks
  - Private Recreation Facilities and Attractions
  - Hydrology
  - Detailed Study Area
  - KGA** Segment Name



Source: Gaston County and Mecklenburg County  
Map Printed April 2009.



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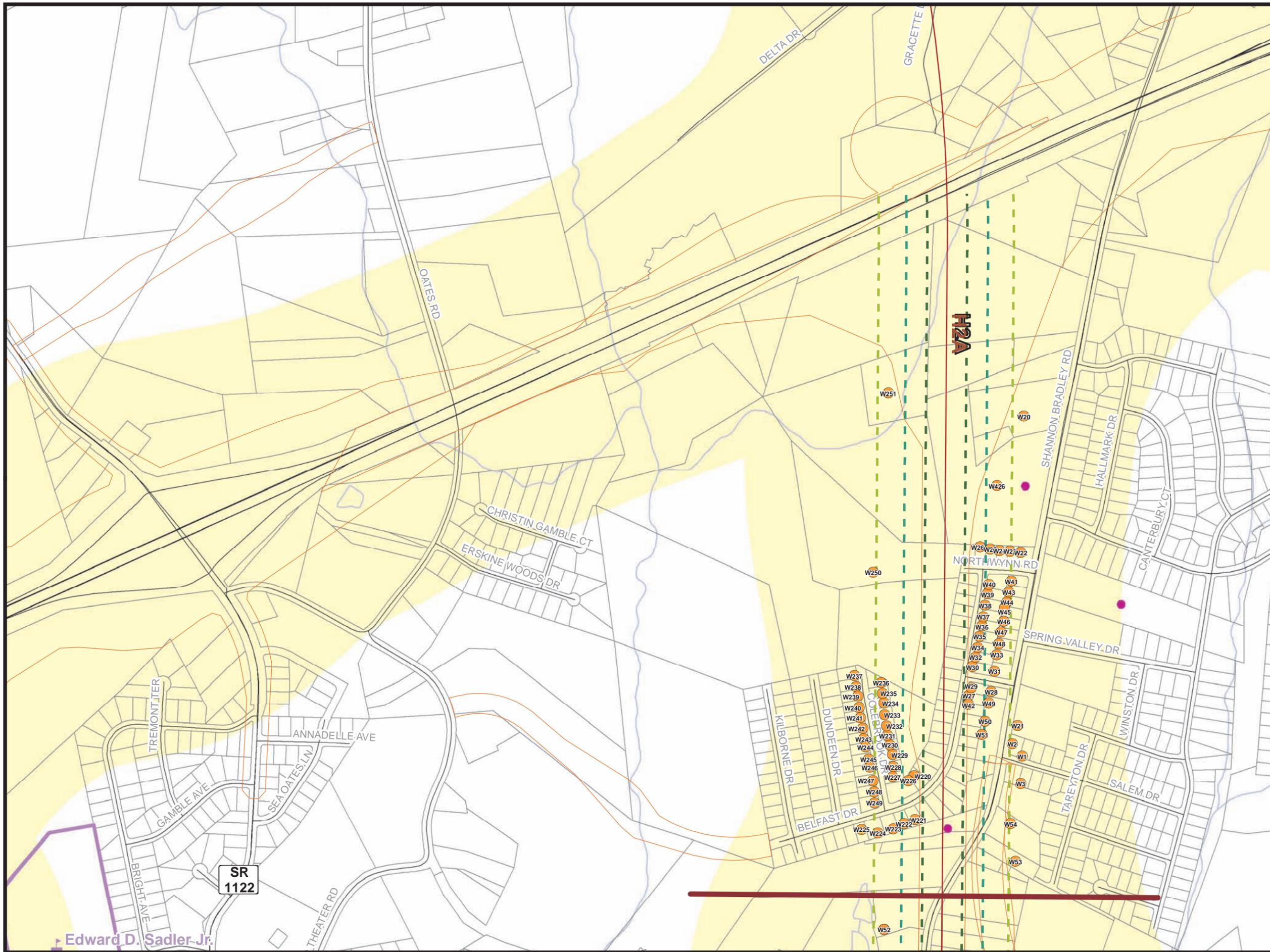
Gaston County and  
Mecklenburg County

**GASTON EAST-WEST  
CONNECTOR**

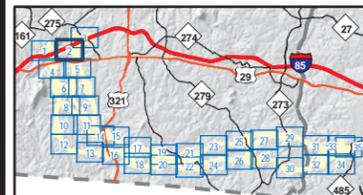
**2030 NOISE CONTOURS  
and SENSITIVE  
RECEPTOR LOCATIONS**

Edward D. Sadler Jr.  
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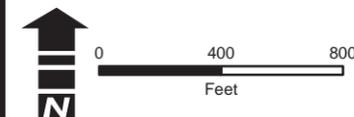
**Figure G-1**



- Legend**
- Receptor Points
  - SegmentBreaks
  - Preliminary Road Design
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  - - - 66 dBA Leq
  - - - 71 dBA Leq
  - Right of Way
  - 📖 Libraries
  - ⦿ Churches
  - ⚪ Cemeteries
  - 🎓 Schools
  - ▭ School Property
  - Streets
  - ≡ Railroad
  - ▭ Parcels
  - 🌳 Parks
  - ▭ Private Recreation Facilities and Attractions
  - Hydrology
  - Detailed Study Area
  - KSA** Segment Name



Source: Gaston County and Mecklenburg County  
Map Printed April 2009.



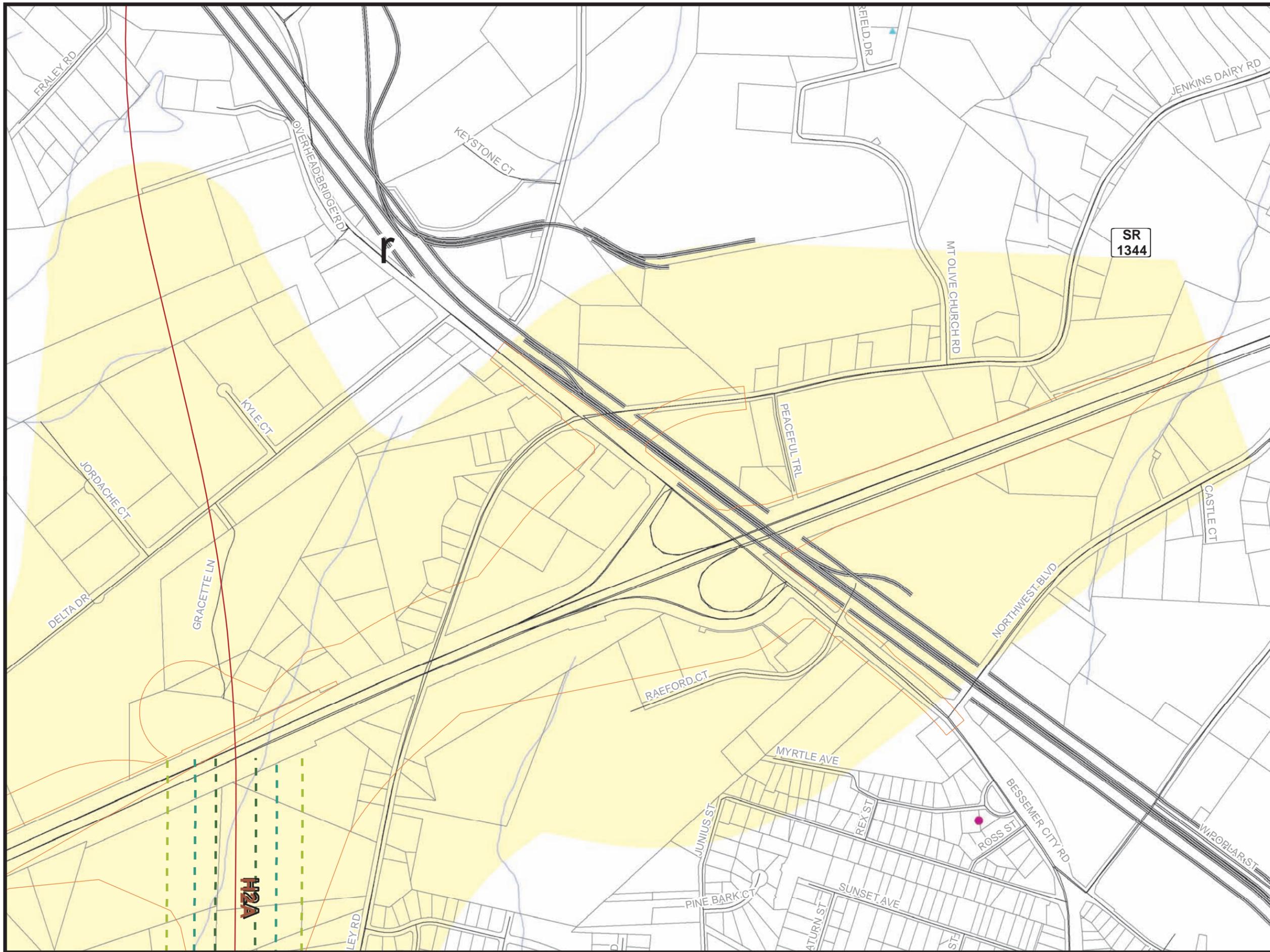
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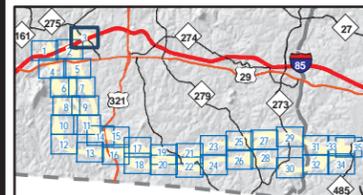
**GASTON EAST-WEST  
CONNECTOR**

**2030 NOISE CONTOURS  
and SENSITIVE  
RECEPTOR LOCATIONS**

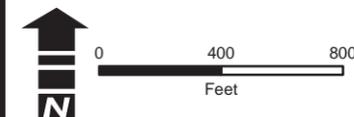
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- Legend**
- Receptor Points
  - SegmentBreaks
  - Preliminary Road Design
  - - - 60 dBA Leq
  - - - 66 dBA Leq
  - - - 71 dBA Leq
  - Right of Way
  - Libraries
  - Churches
  - ▲ Cemeteries
  - Schools
  - School Property
  - Streets
  - = Railroad
  - Parcels
  - Parks
  - Private Recreation Facilities and Attractions
  - Hydrology
  - Detailed Study Area
- KGA Segment Name**



Source: Gaston County and Mecklenburg County  
Map Printed April 2009.



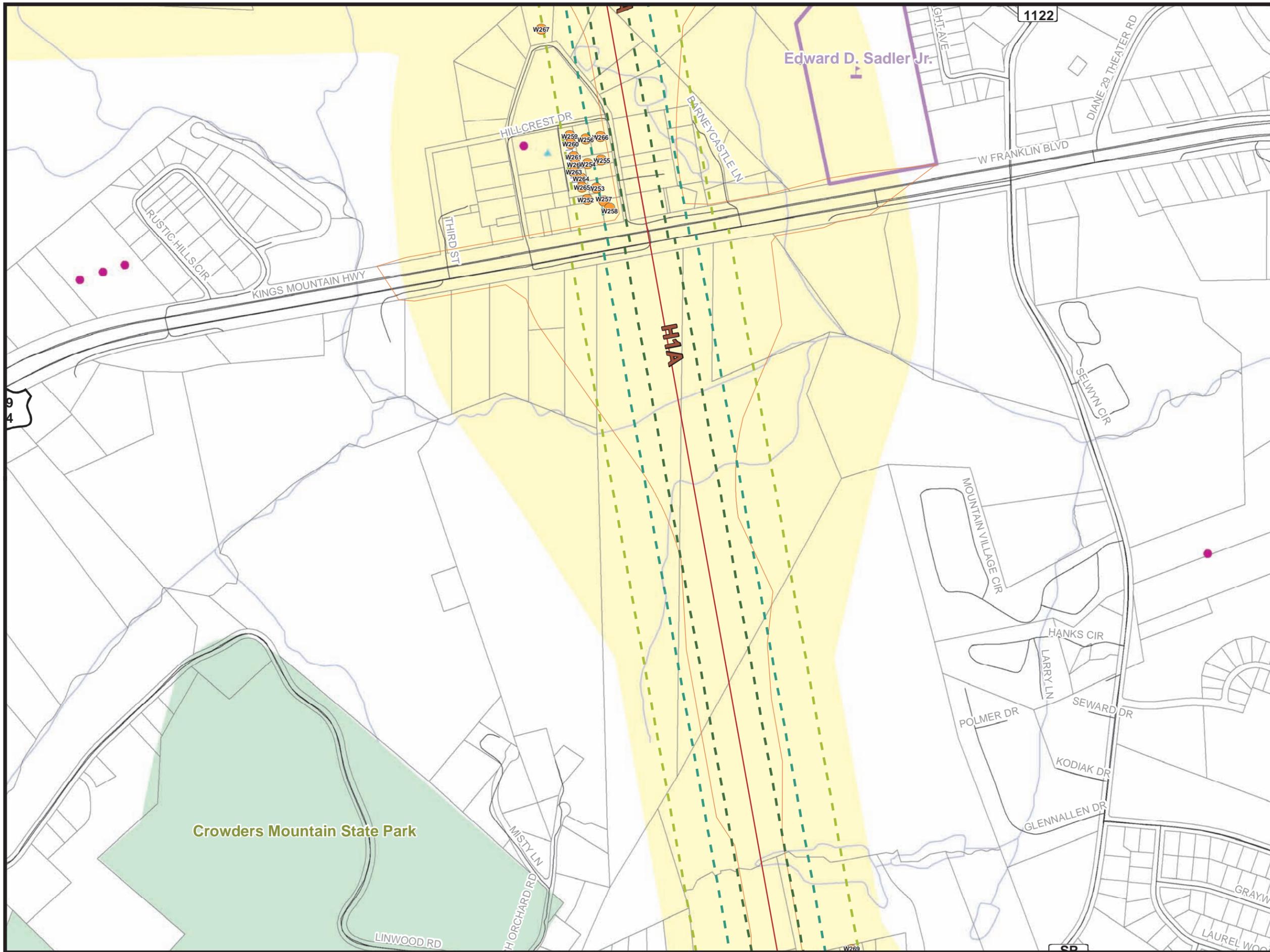
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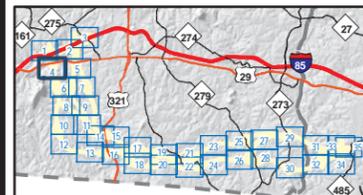
**GASTON EAST-WEST  
CONNECTOR**

**2030 NOISE CONTOURS  
and SENSITIVE  
RECEPTOR LOCATIONS**

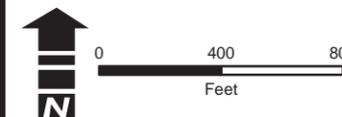
**Figure G-3**



- Legend**
- Receptor Points
  - SegmentBreaks
  - Preliminary Road Design
  - - - 60 dBA Leq
  - - - 66 dBA Leq
  - - - 71 dBA Leq
  - Right of Way
  - Libraries
  - Churches
  - ▲ Cemeteries
  - Schools
  - School Property
  - Streets
  - Railroad
  - Parcels
  - Parks
  - Private Recreation Facilities and Attractions
  - Hydrology
  - Detailed Study Area
  - KIA Segment Name



Source: Gaston County and Mecklenburg County  
Map Printed April 2009.



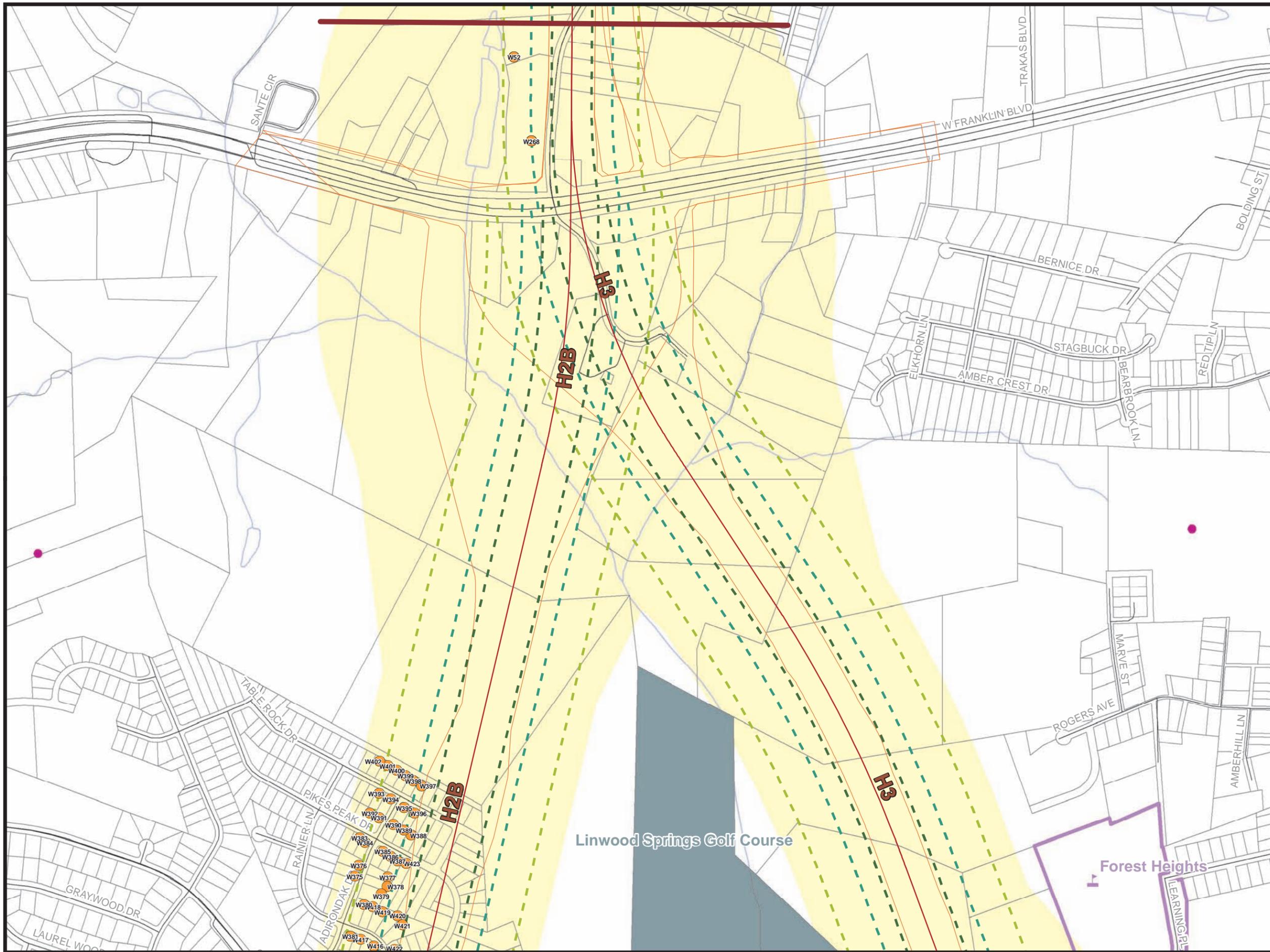
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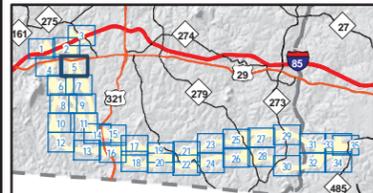
**GASTON EAST-WEST  
CONNECTOR**

**2030 NOISE CONTOURS  
and SENSITIVE  
RECEPTOR LOCATIONS**

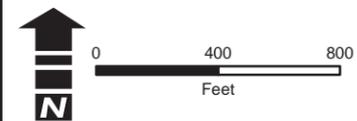
**Figure G-4**



- Legend**
- Receptor Points
  - SegmentBreaks
  - Preliminary Road Design
  - 60 dBA Leq
  - 66 dBA Leq
  - 71 dBA Leq
  - Right of Way
  - 📖 Libraries
  - ⦿ Churches
  - ⚰ Cemeteries
  - 🎓 Schools
  - 🏫 School Property
  - Streets
  - Railroad
  - ▭ Parcels
  - 🌳 Parks
  - 🏠 Private Recreation Facilities and Attractions
  - Hydrology
  - 🟡 Detailed Study Area
  - KSA** Segment Name



Source: Gaston County and Mecklenburg County Map Printed April 2009.



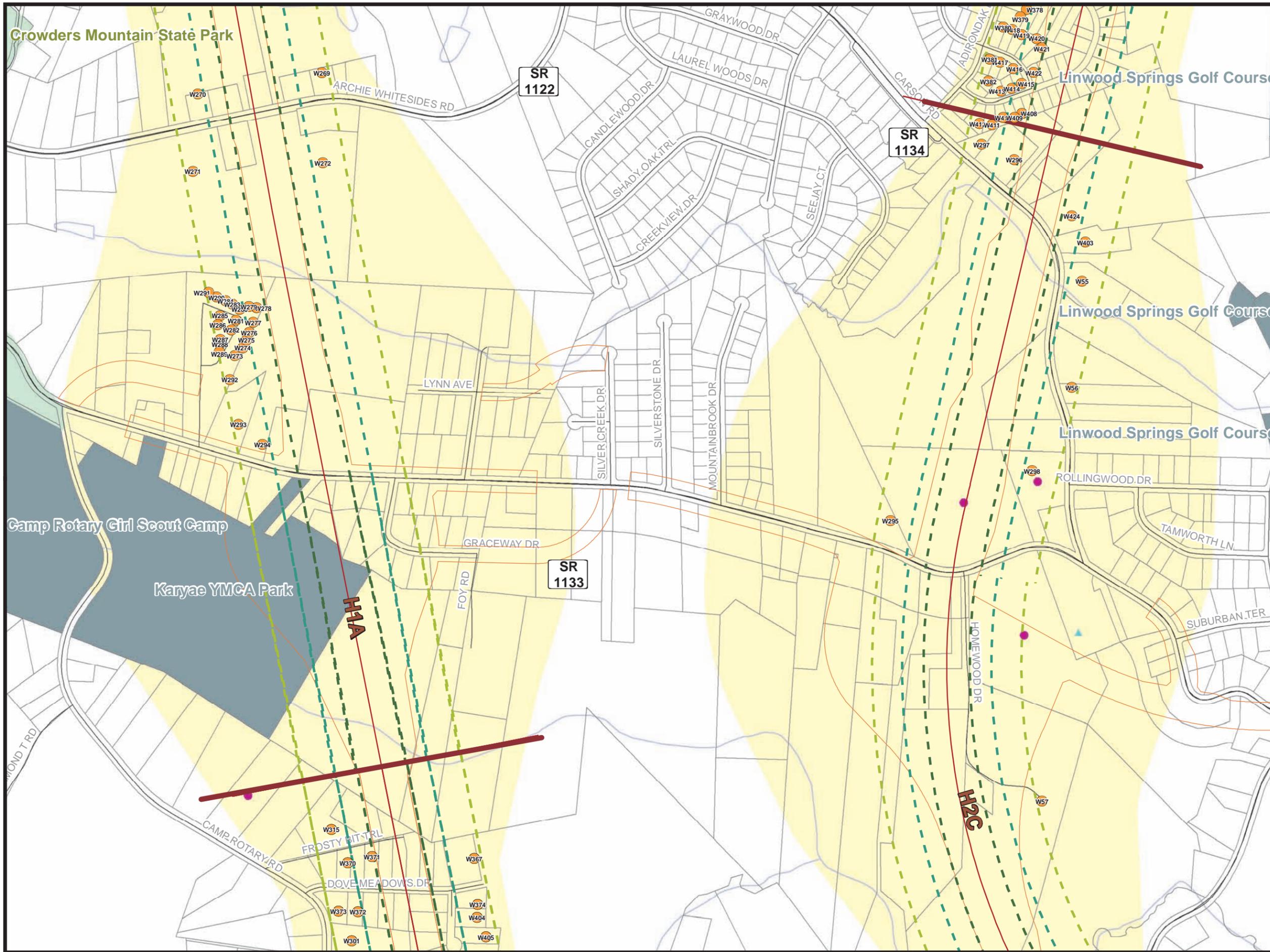
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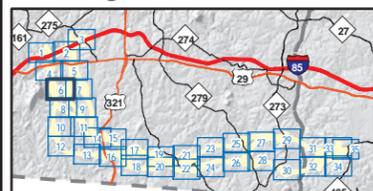
**GASTON EAST-WEST CONNECTOR**

**2030 NOISE CONTOURS and SENSITIVE RECEPTOR LOCATIONS**

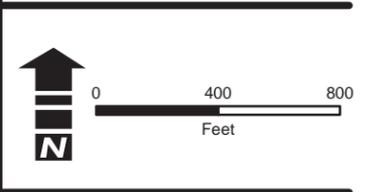
**Figure G-5**



- Legend**
- Receptor Points
  - SegmentBreaks
  - Preliminary Road Design
  - 60 dBA Leq
  - 66 dBA Leq
  - 71 dBA Leq
  - Right of Way
  - 📖 Libraries
  - ⛪ Churches
  - ⚰ Cemeteries
  - 🎓 Schools
  - ▭ School Property
  - Streets
  - Railroad
  - ▭ Parcels
  - 🌳 Parks
  - 🏠 Private Recreation Facilities and Attractions
  - Hydrology
  - 🟡 Detailed Study Area
  - KIA** Segment Name



Source: Gaston County and Mecklenburg County  
Map Printed April 2009.

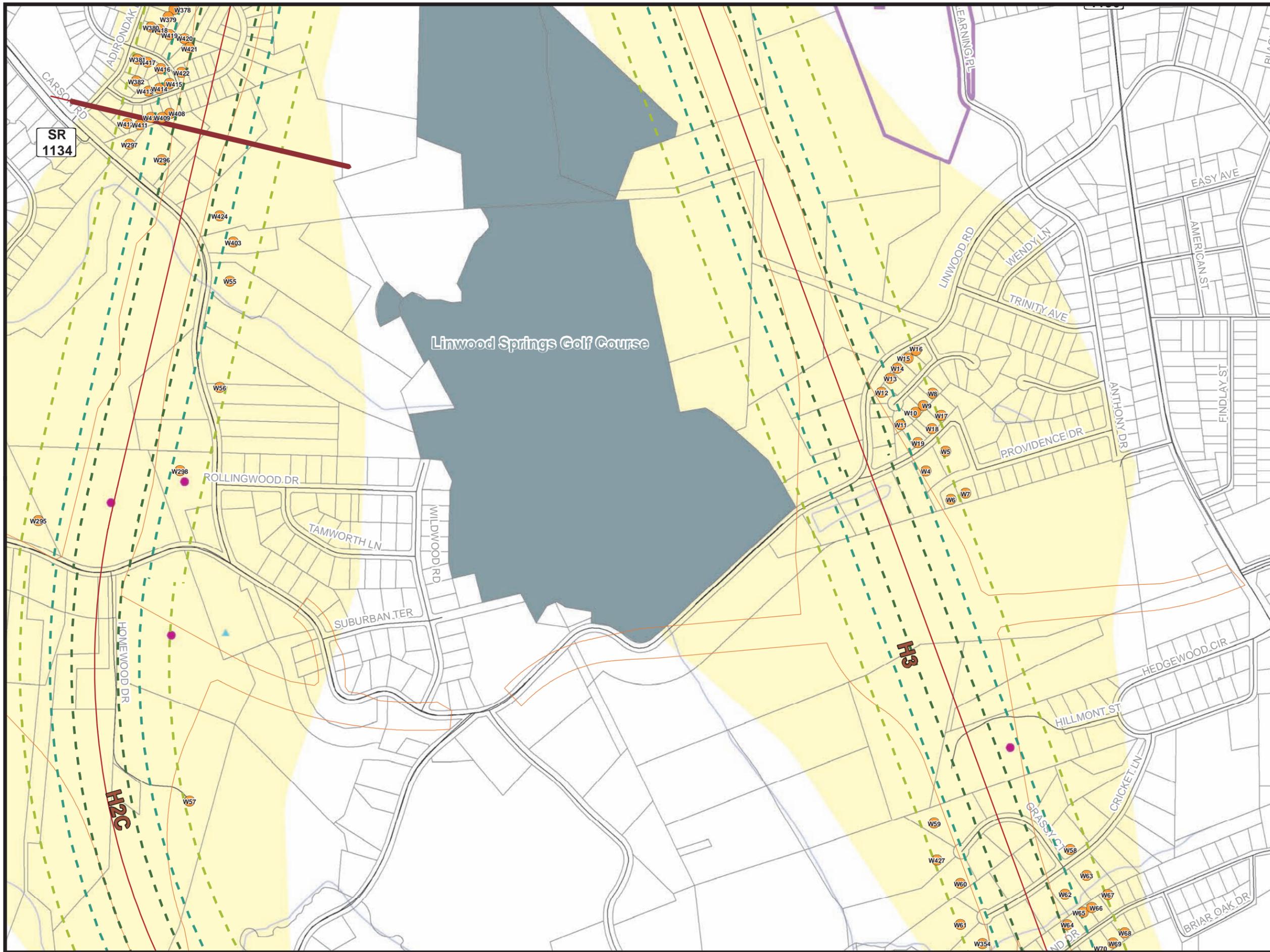


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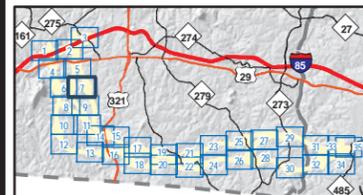
**GASTON EAST-WEST CONNECTOR**

**2030 NOISE CONTOURS and SENSITIVE RECEPTOR LOCATIONS**

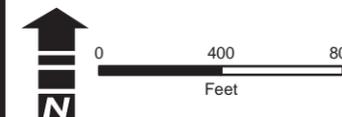
**Figure G-6**



- Legend**
- Receptor Points
  - SegmentBreaks
  - Preliminary Road Design
  - 60 dBA Leq
  - 66 dBA Leq
  - 71 dBA Leq
  - Right of Way
  - Libraries
  - Churches
  - ▲ Cemeteries
  - Schools
  - School Property
  - Streets
  - Railroad
  - Parcels
  - Parks
  - Private Recreation Facilities and Attractions
  - Hydrology
  - Detailed Study Area
  - KSA Segment Name



Source: Gaston County and Mecklenburg County Map Printed April 2009.



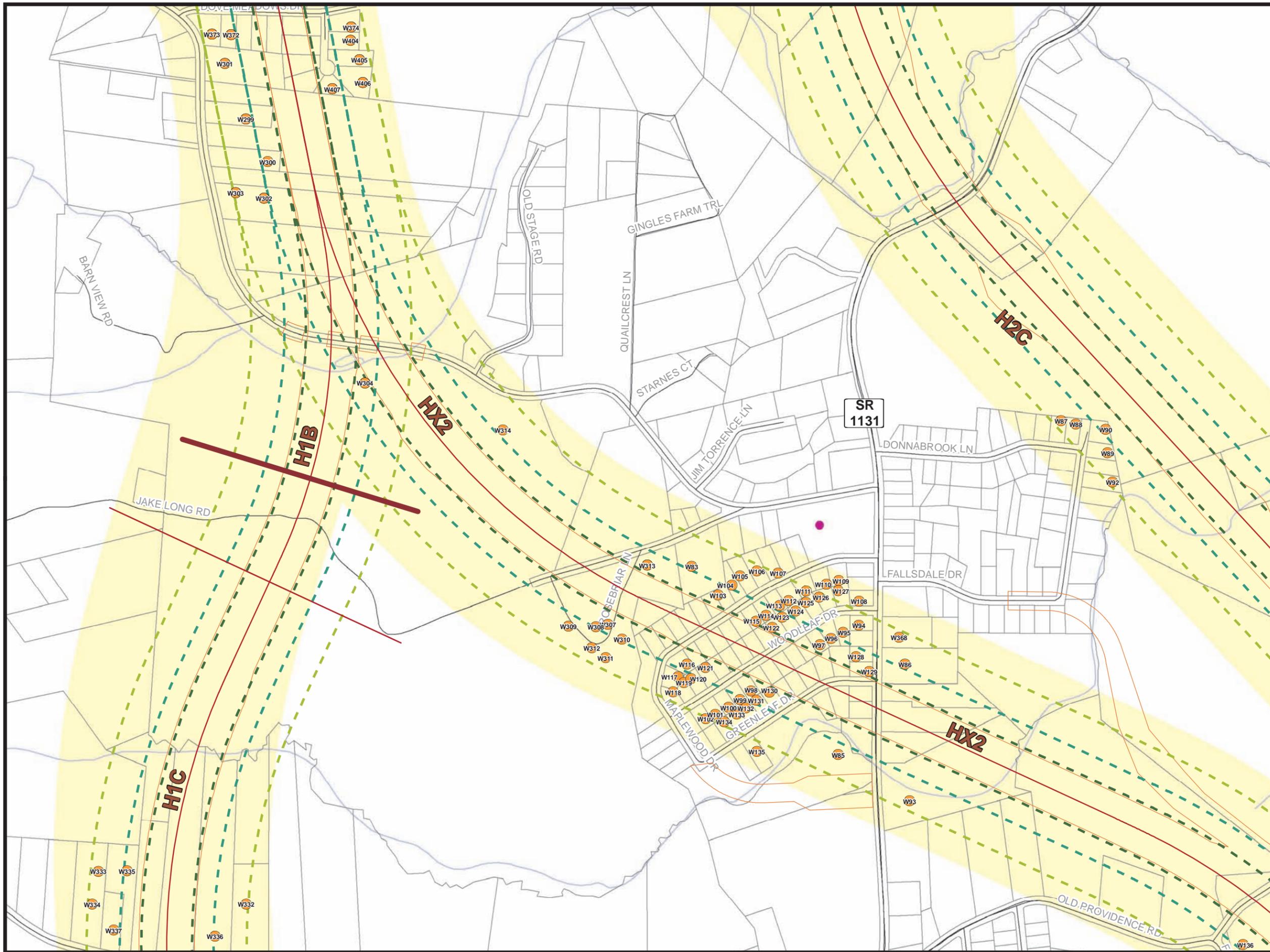
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Gaston County and Mecklenburg County

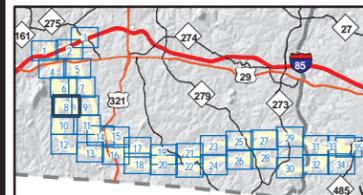
**GASTON EAST-WEST CONNECTOR**

**2030 NOISE CONTOURS and SENSITIVE RECEPTOR LOCATIONS**

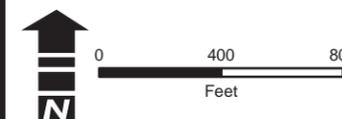
**Figure G-7**



- Legend**
- Receptor Points
  - SegmentBreaks
  - Preliminary Road Design
  - 60 dBA Leq
  - 66 dBA Leq
  - 71 dBA Leq
  - Right of Way
  - 📖 Libraries
  - ⛪ Churches
  - ⚰ Cemeteries
  - 🎓 Schools
  - 🏫 School Property
  - Streets
  - 🚂 Railroad
  - ▭ Parcels
  - 🌳 Parks
  - 🏠 Private Recreation Facilities and Attractions
  - 🌊 Hydrology
  - 🟡 Detailed Study Area
  - KGA** Segment Name



Source: Gaston County and Mecklenburg County Map Printed April 2009.



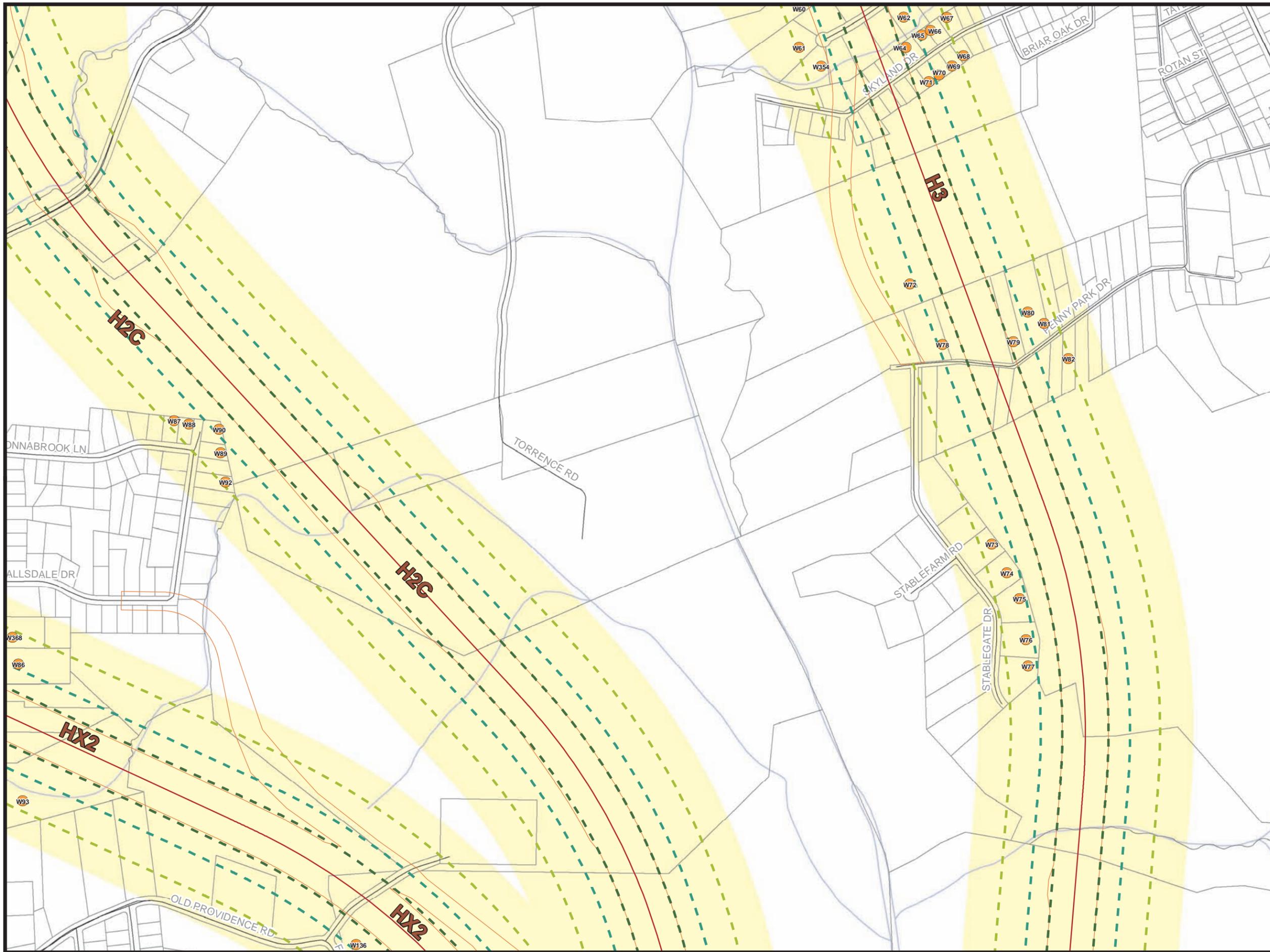
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Gaston County and Mecklenburg County

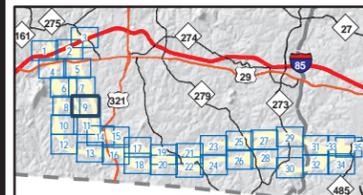
**GASTON EAST-WEST CONNECTOR**

**2030 NOISE CONTOURS and SENSITIVE RECEPTOR LOCATIONS**

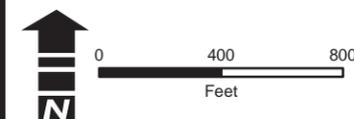
**Figure G-8**



- Legend**
- Receptor Points
  - SegmentBreaks
  - Preliminary Road Design
  - 60 dBA Leq
  - 66 dBA Leq
  - 71 dBA Leq
  - Right of Way
  - 📖 Libraries
  - ⛪ Churches
  - ⚪ Cemeteries
  - 🎓 Schools
  - 🏫 School Property
  - Streets
  - Railroad
  - Parcels
  - 🌳 Parks
  - 🏖️ Private Recreation Facilities and Attractions
  - Hydrology
  - 🟡 Detailed Study Area
- KGA Segment Name**



Source: Gaston County and Mecklenburg County Map Printed April 2009.



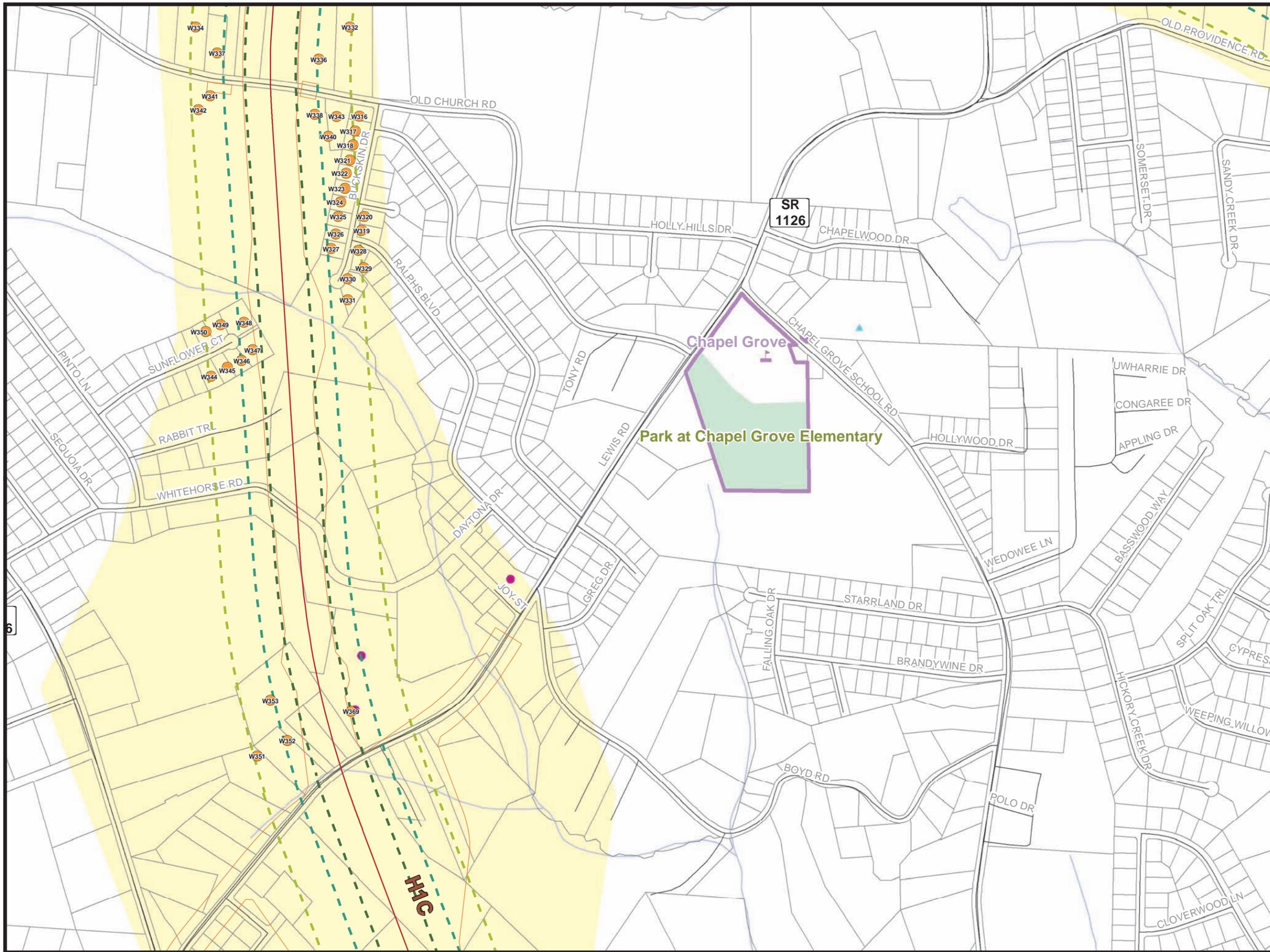
STIP PROJECT NO. U-3321

Gaston County and Mecklenburg County

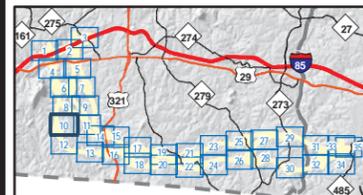
**GASTON EAST-WEST CONNECTOR**

**2030 NOISE CONTOURS and SENSITIVE RECEPTOR LOCATIONS**

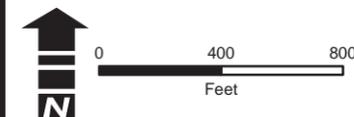
**Figure G-9**



- Legend**
- Receptor Points
  - SegmentBreaks
  - Preliminary Road Design
  - 60 dBA Leq
  - 66 dBA Leq
  - 71 dBA Leq
  - Right of Way
  - Libraries
  - Churches
  - ▲ Cemeteries
  - Schools
  - School Property
  - Streets
  - = Railroad
  - Parcels
  - Parks
  - Private Recreation Facilities and Attractions
  - Hydrology
  - Detailed Study Area
  - KGA Segment Name



Source: Gaston County and Mecklenburg County  
Map Printed April 2009.



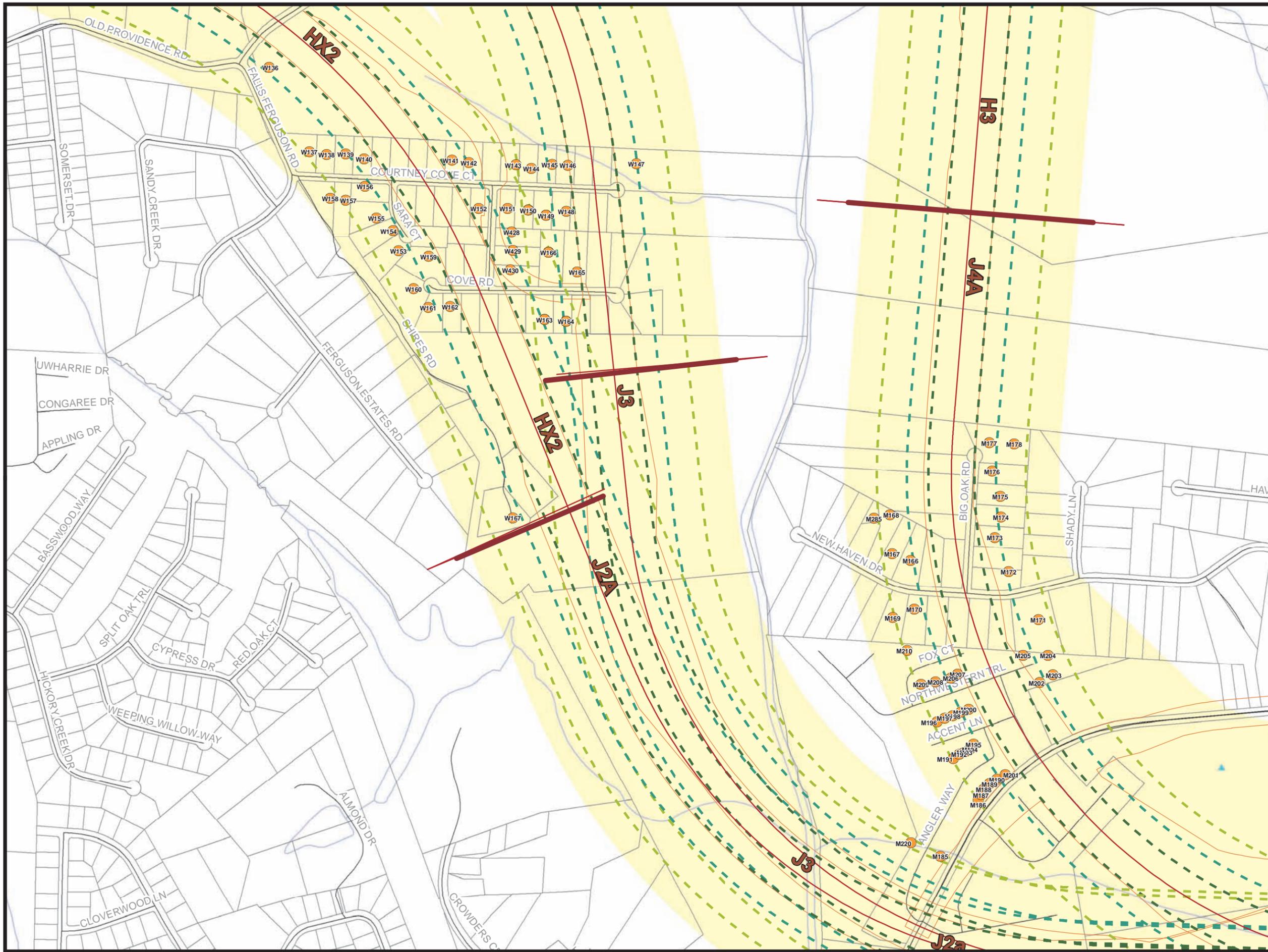
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Gaston County and  
Mecklenburg County

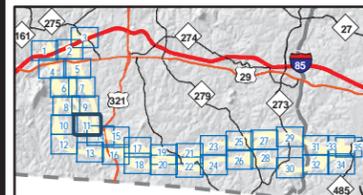
**GASTON EAST-WEST  
CONNECTOR**

**2030 NOISE CONTOURS  
and SENSITIVE  
RECEPTOR LOCATIONS**

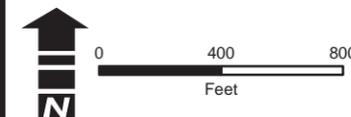
**Figure G-10**



- Legend**
- Receptor Points
  - SegmentBreaks
  - Preliminary Road Design
  - 60 dBA Leq
  - 66 dBA Leq
  - 71 dBA Leq
  - Right of Way
  - 📖 Libraries
  - ⛪ Churches
  - ⚰ Cemeteries
  - 🎓 Schools
  - 🏫 School Property
  - Streets
  - Railroad
  - Parcels
  - 🌳 Parks
  - 🏠 Private Recreation Facilities and Attractions
  - Hydrology
  - 🟡 Detailed Study Area
- KGA Segment Name**



Source: Gaston County and Mecklenburg County  
Map Printed April 2009.



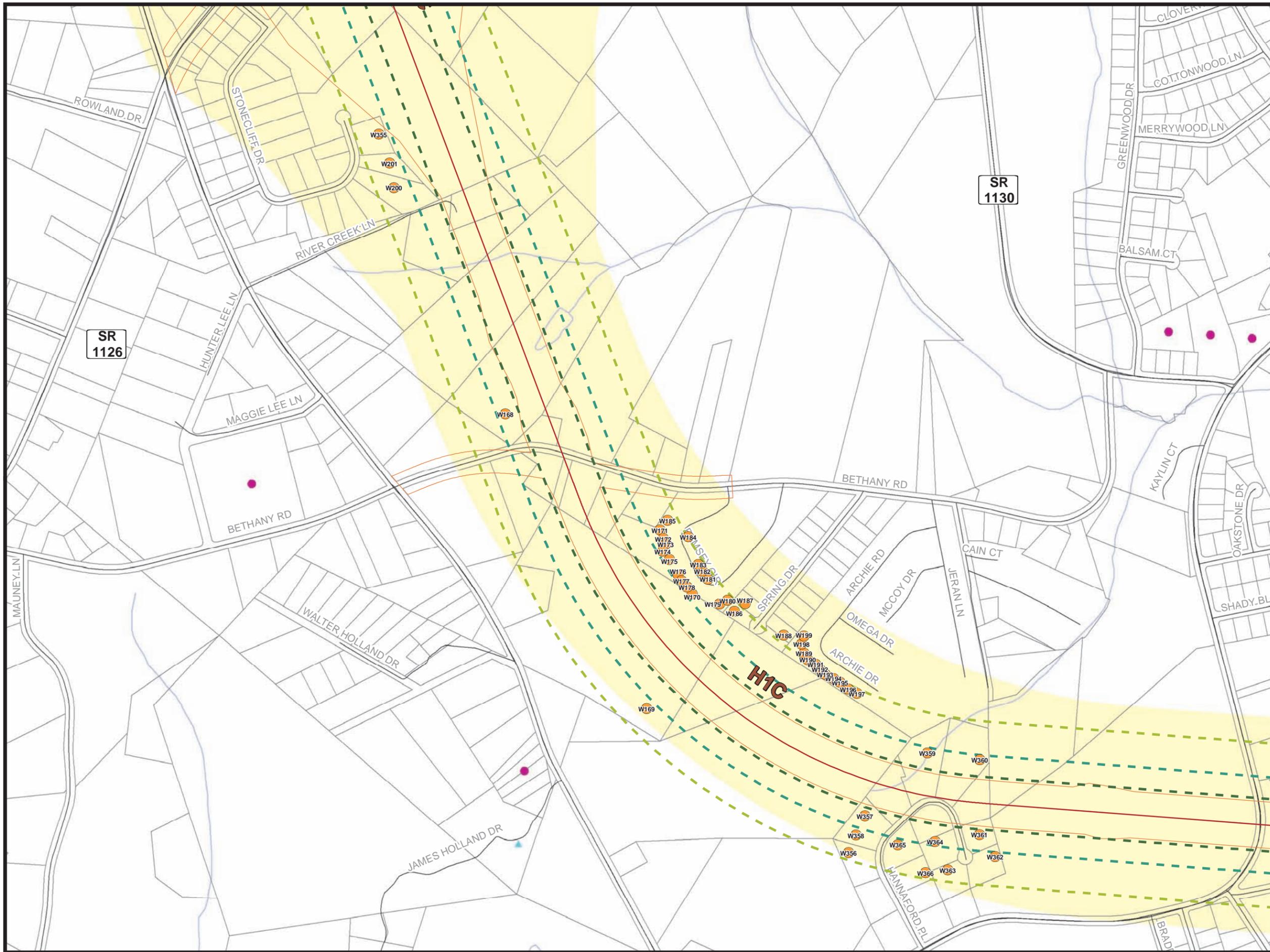
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Gaston County and  
Mecklenburg County

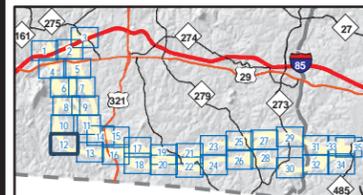
**GASTON EAST-WEST  
CONNECTOR**

**2030 NOISE CONTOURS  
and SENSITIVE  
RECEPTOR LOCATIONS**

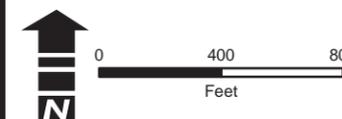
Figure G-11



- Legend**
- Receptor Points
  - SegmentBreaks
  - Preliminary Road Design
  - 60 dBA Leq
  - 66 dBA Leq
  - 71 dBA Leq
  - Right of Way
  - Libraries
  - Churches
  - Cemeteries
  - Schools
  - School Property
  - Streets
  - Railroad
  - Parcels
  - Parks
  - Private Recreation Facilities and Attractions
  - Hydrology
  - Detailed Study Area
- KGA Segment Name**



Source: Gaston County and Mecklenburg County  
Map Printed April 2009.



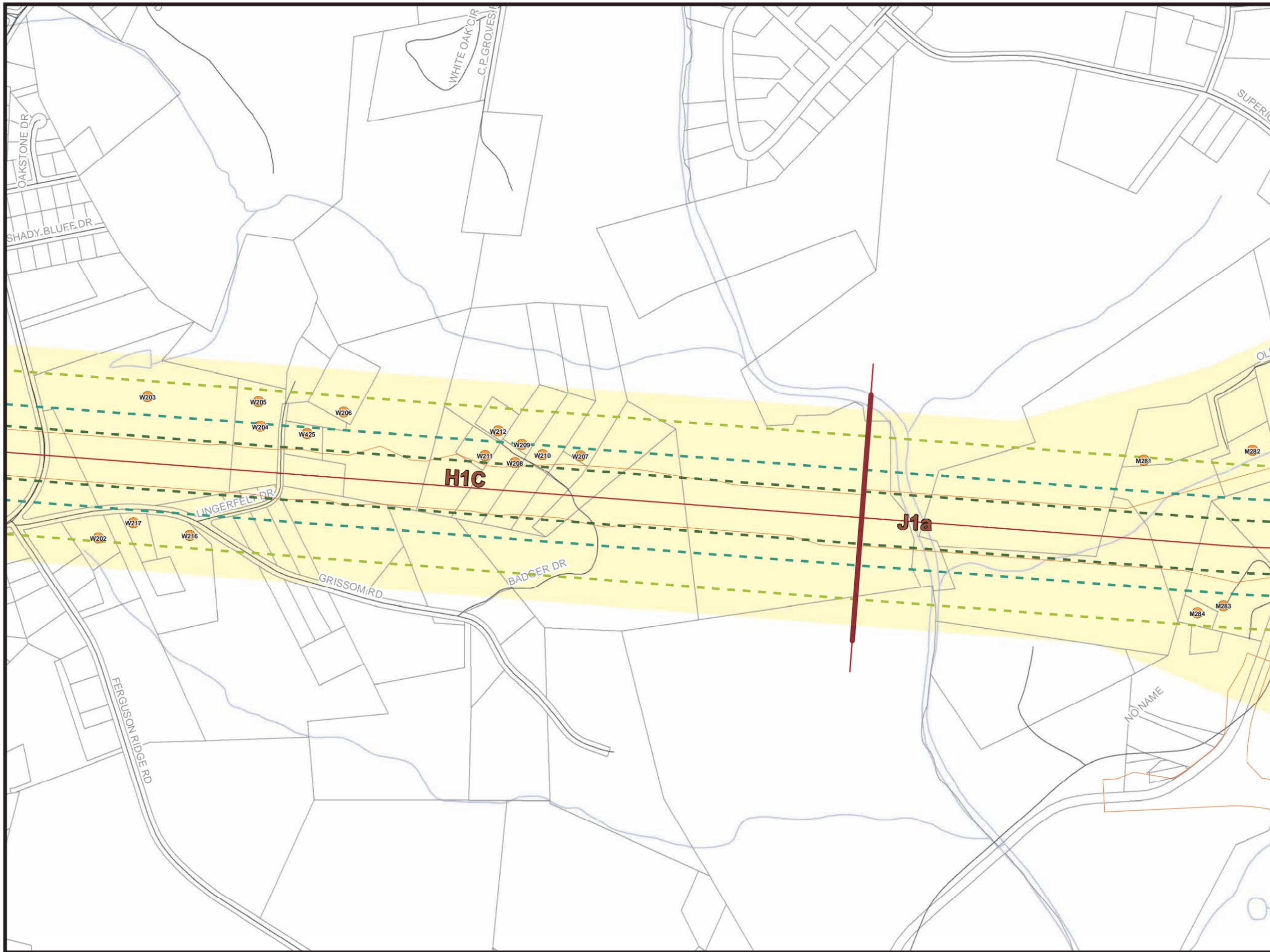
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Gaston County and Mecklenburg County

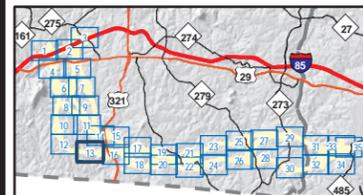
**GASTON EAST-WEST CONNECTOR**

**2030 NOISE CONTOURS and SENSITIVE RECEPTOR LOCATIONS**

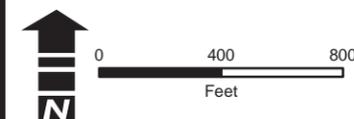
**Figure G-12**



- Legend**
- Receptor Points
  - SegmentBreaks
  - Preliminary Road Design
  - - - 60 dBA Leq
  - - - 66 dBA Leq
  - - - 71 dBA Leq
  - Right of Way
  - 📖 Libraries
  - ⛔ Churches
  - ⚰ Cemeteries
  - 🎓 Schools
  - 🏫 School Property
  - Streets
  - Railroad
  - Parcels
  - 🌳 Parks
  - 🏠 Private Recreation Facilities and Attractions
  - Hydrology
  - 🟡 Detailed Study Area
- KTA Segment Name**



Source: Gaston County and Mecklenburg County  
Map Printed April 2009.



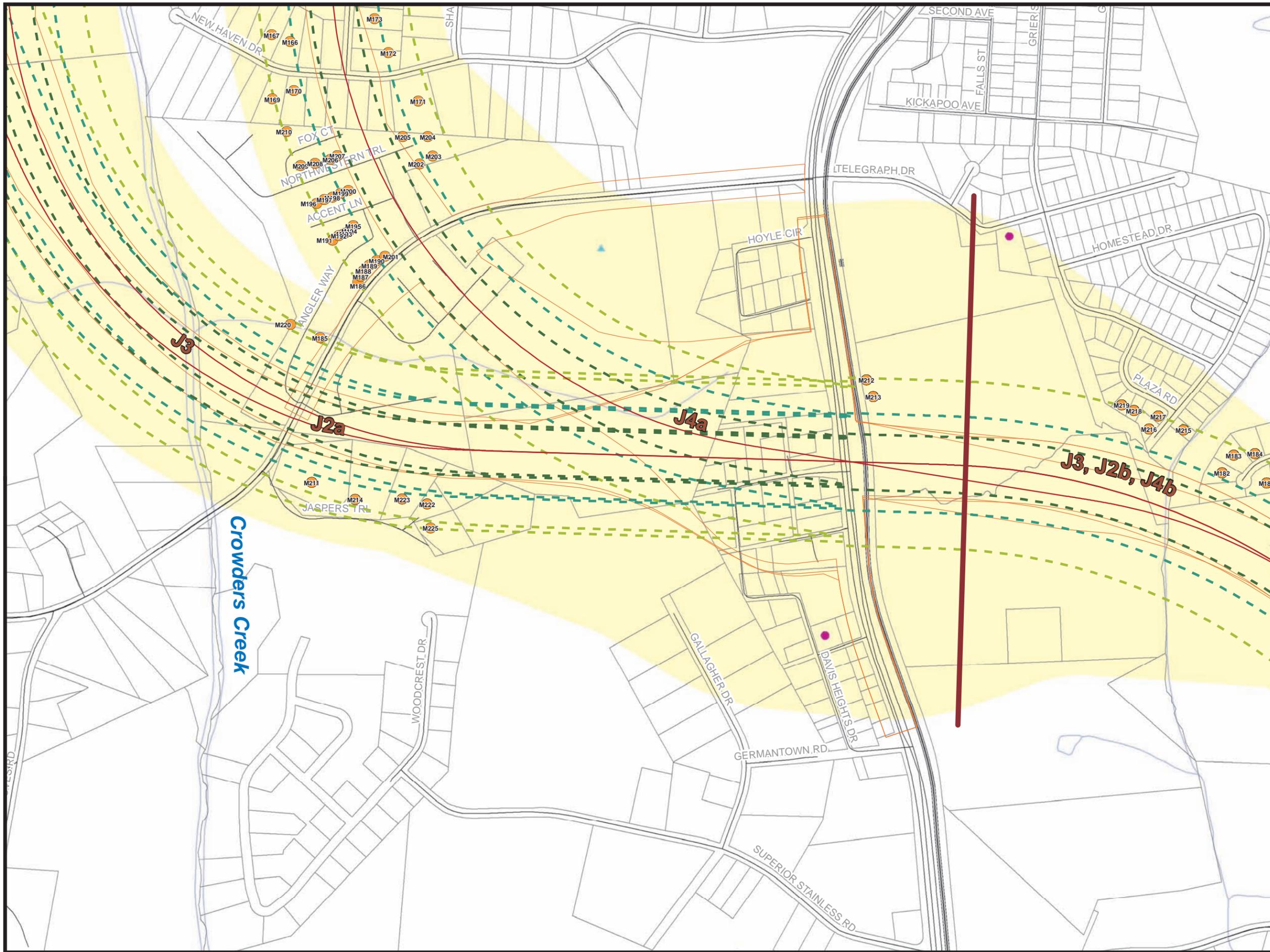
STIP PROJECT  
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Gaston County and  
Mecklenburg County

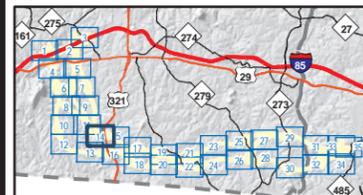
**GASTON EAST-WEST  
CONNECTOR**

**2030 NOISE CONTOURS  
and SENSITIVE  
RECEPTOR LOCATIONS**

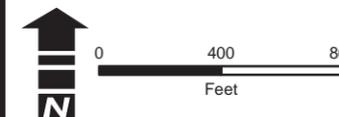
**Figure G-13**



- Legend**
- Receptor Points
  - SegmentBreaks
  - Preliminary Road Design
  - 60 dBA Leq
  - 66 dBA Leq
  - 71 dBA Leq
  - Right of Way
  - 📖 Libraries
  - Churches
  - ▲ Cemeteries
  - 🎓 Schools
  - ▭ School Property
  - Streets
  - Railroad
  - ▭ Parcels
  - ▭ Parks
  - ▭ Private Recreation Facilities and Attractions
  - Hydrology
  - ▭ Detailed Study Area
- KGA Segment Name**



Source: Gaston County and Mecklenburg County  
Map Printed April 2009.



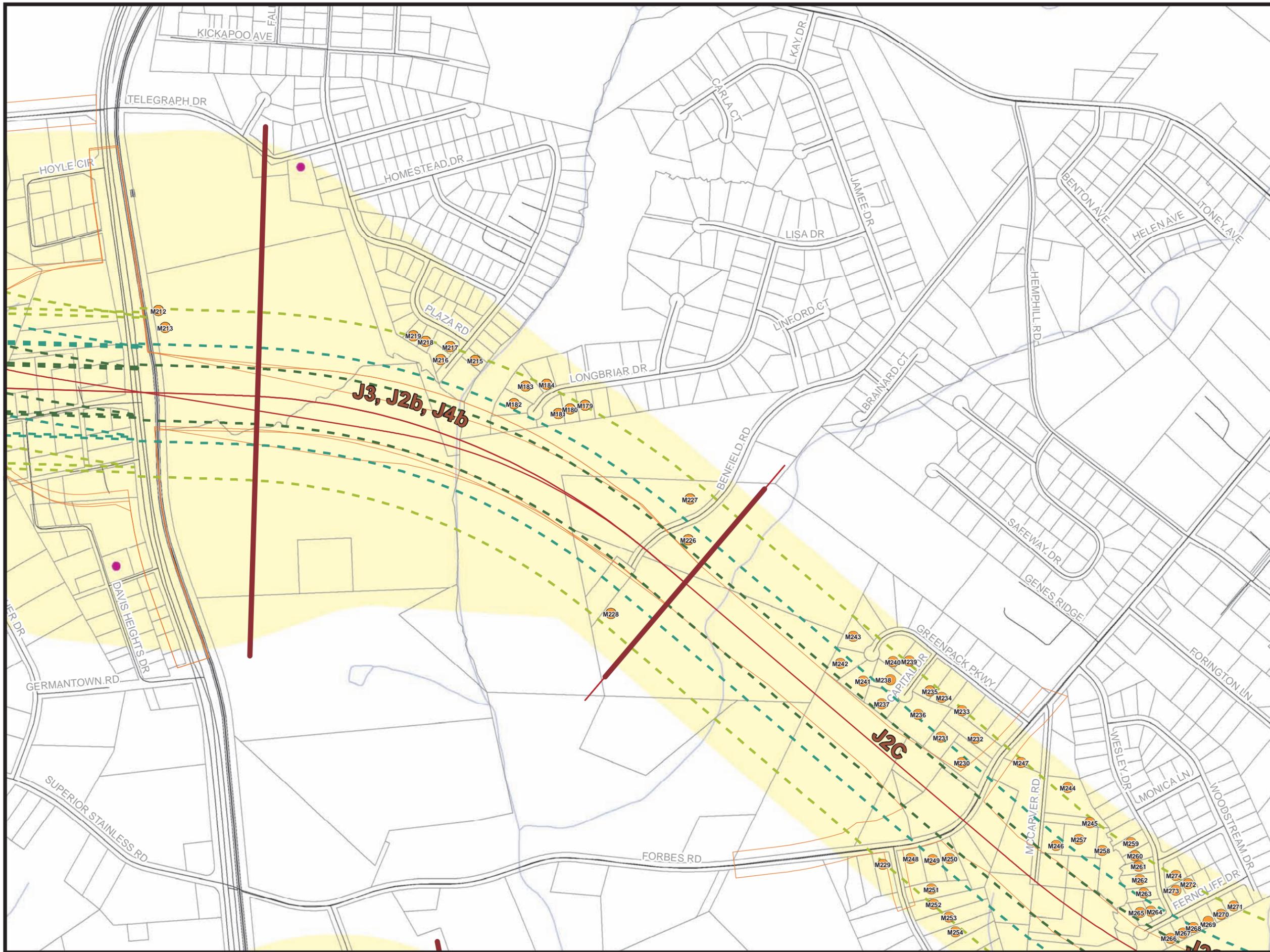
STIP PROJECT  
NO. U-3321

Gaston County and  
Mecklenburg County

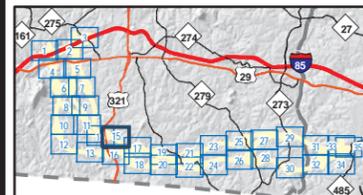
**GASTON EAST-WEST  
CONNECTOR**

**2030 NOISE CONTOURS  
and SENSITIVE  
RECEPTOR LOCATIONS**

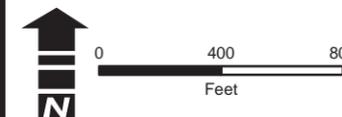
Figure G-14



- Legend**
- Receptor Points
  - SegmentBreaks
  - Preliminary Road Design
  - - - 60 dBA Leq
  - - - 66 dBA Leq
  - - - 71 dBA Leq
  - Right of Way
  - 📖 Libraries
  - ⦿ Churches
  - ⚰ Cemeteries
  - 🎓 Schools
  - ▭ School Property
  - Streets
  - Railroad
  - ▭ Parcels
  - 🌳 Parks
  - ▭ Private Recreation Facilities and Attractions
  - Hydrology
  - Detailed Study Area
- KGA Segment Name**



Source: Gaston County and Mecklenburg County Map Printed April 2009.



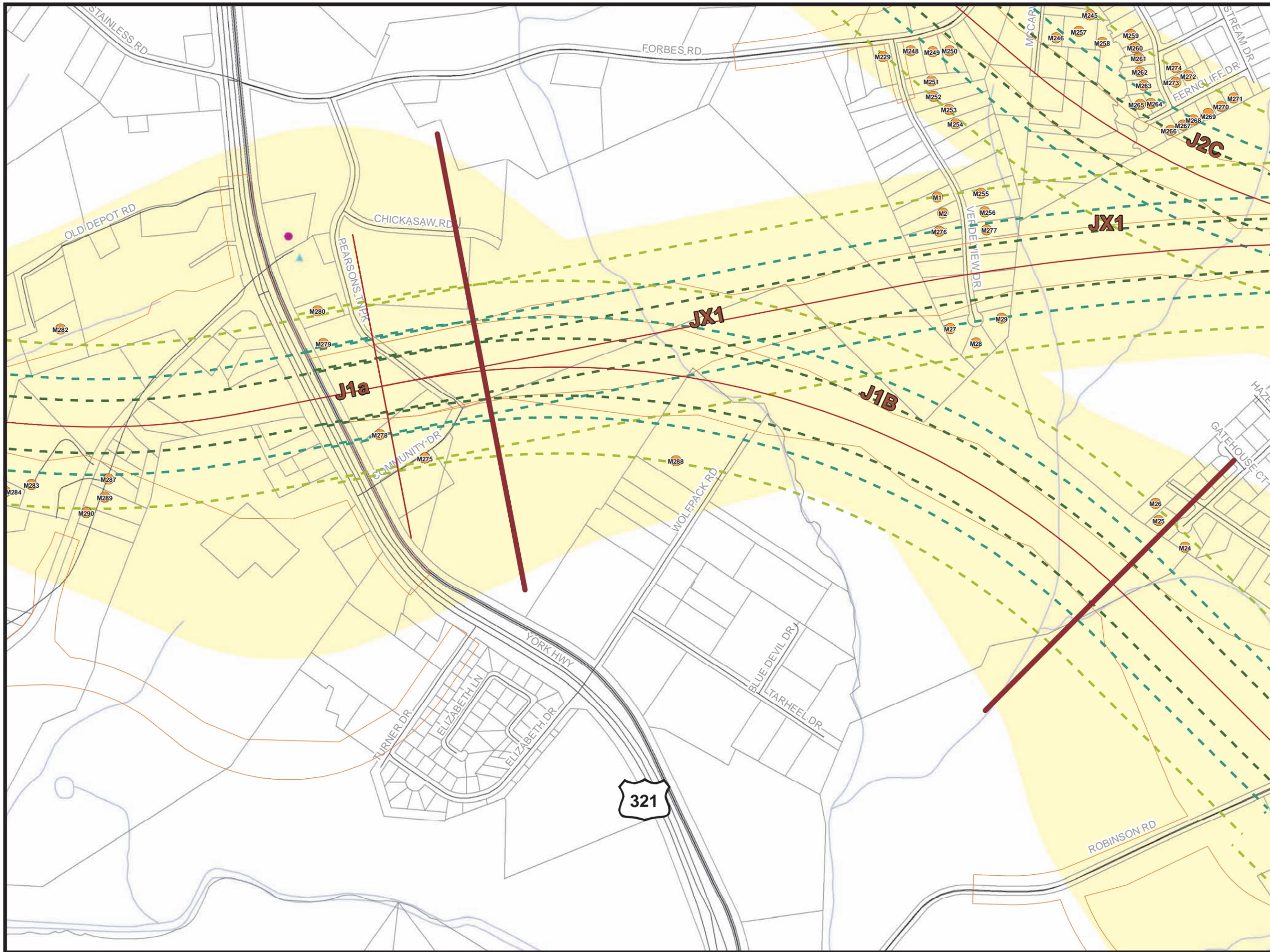
STIP PROJECT NO. U-3321

Gaston County and Mecklenburg County

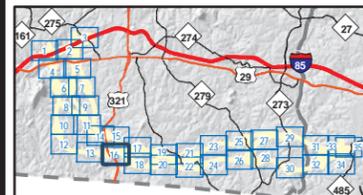
**GASTON EAST-WEST CONNECTOR**

**2030 NOISE CONTOURS and SENSITIVE RECEPTOR LOCATIONS**

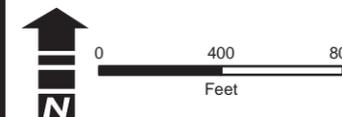
Figure G-15



- Legend**
- Receptor Points
  - SegmentBreaks
  - Preliminary Road Design
  - 60 dBA Leq
  - 66 dBA Leq
  - 71 dBA Leq
  - Right of Way
  - 📖 Libraries
  - ⦿ Churches
  - ⚰ Cemeteries
  - 🎓 Schools
  - ▭ School Property
  - Streets
  - Railroad
  - ▭ Parcels
  - 🌳 Parks
  - ▭ Private Recreation Facilities and Attractions
  - Hydrology
  - ▭ Detailed Study Area
  - KIA** Segment Name



Source: Gaston County and Mecklenburg County  
Map Printed April 2009.



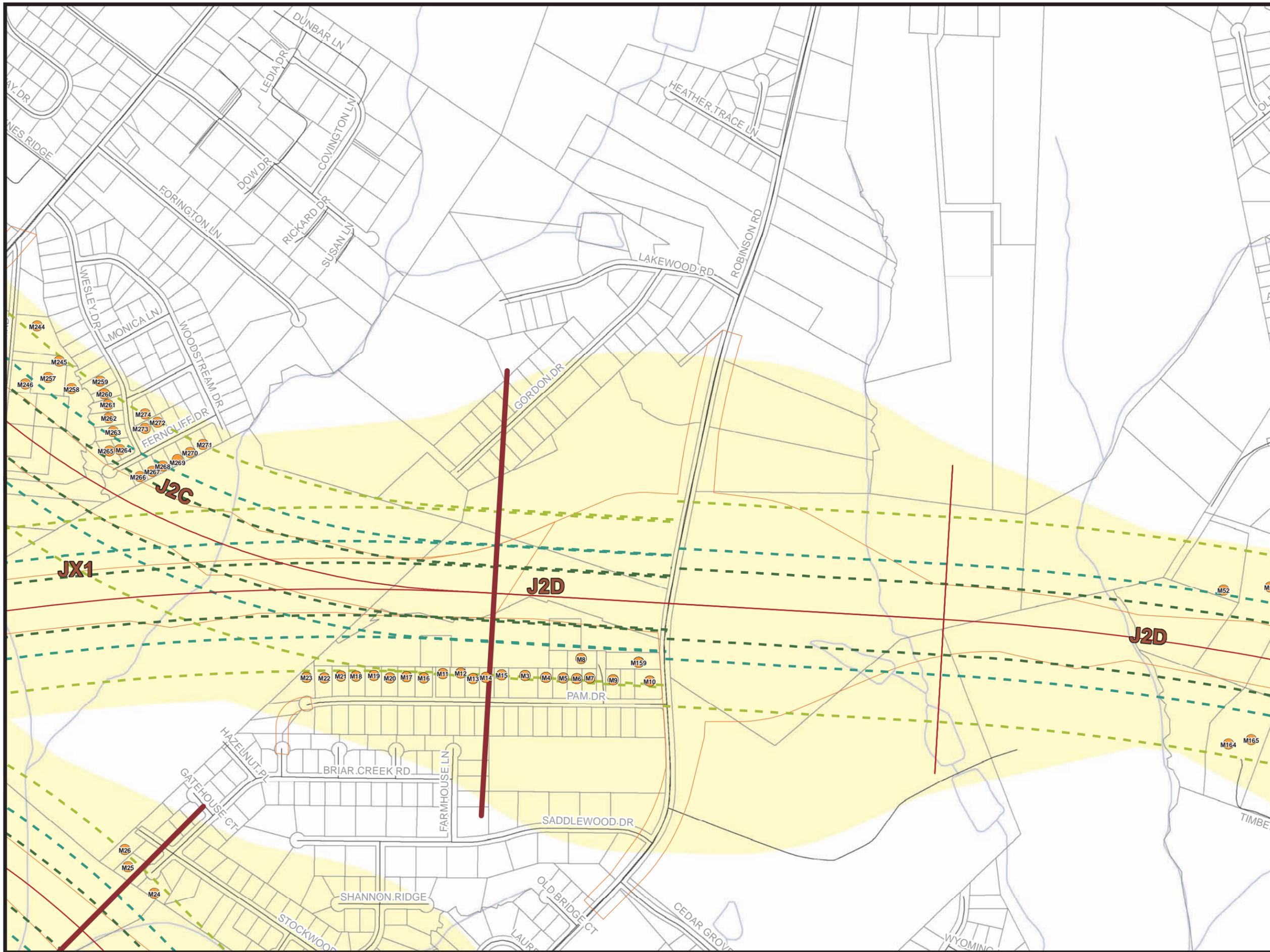
STIP PROJECT  
NO. U-3321

Gaston County and  
Mecklenburg County

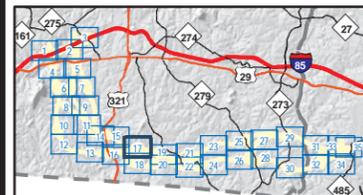
**GASTON EAST-WEST  
CONNECTOR**

**2030 NOISE CONTOURS  
and SENSITIVE  
RECEPTOR LOCATIONS**

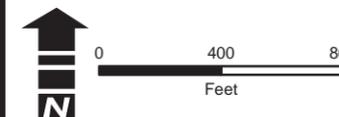
**Figure G-16**



- Legend**
- Receptor Points
  - SegmentBreaks
  - Preliminary Road Design
  - - - 60 dBA Leq
  - - - 66 dBA Leq
  - - - 71 dBA Leq
  - Right of Way
  - 📖 Libraries
  - ⛪ Churches
  - ⚪ Cemeteries
  - 🎓 Schools
  - ▭ School Property
  - Streets
  - Railroad
  - ▭ Parcels
  - 🌳 Parks
  - ▭ Private Recreation Facilities and Attractions
  - Hydrology
  - 🟡 Detailed Study Area
- KGA Segment Name**



Source: Gaston County and Mecklenburg County  
Map Printed April 2009.



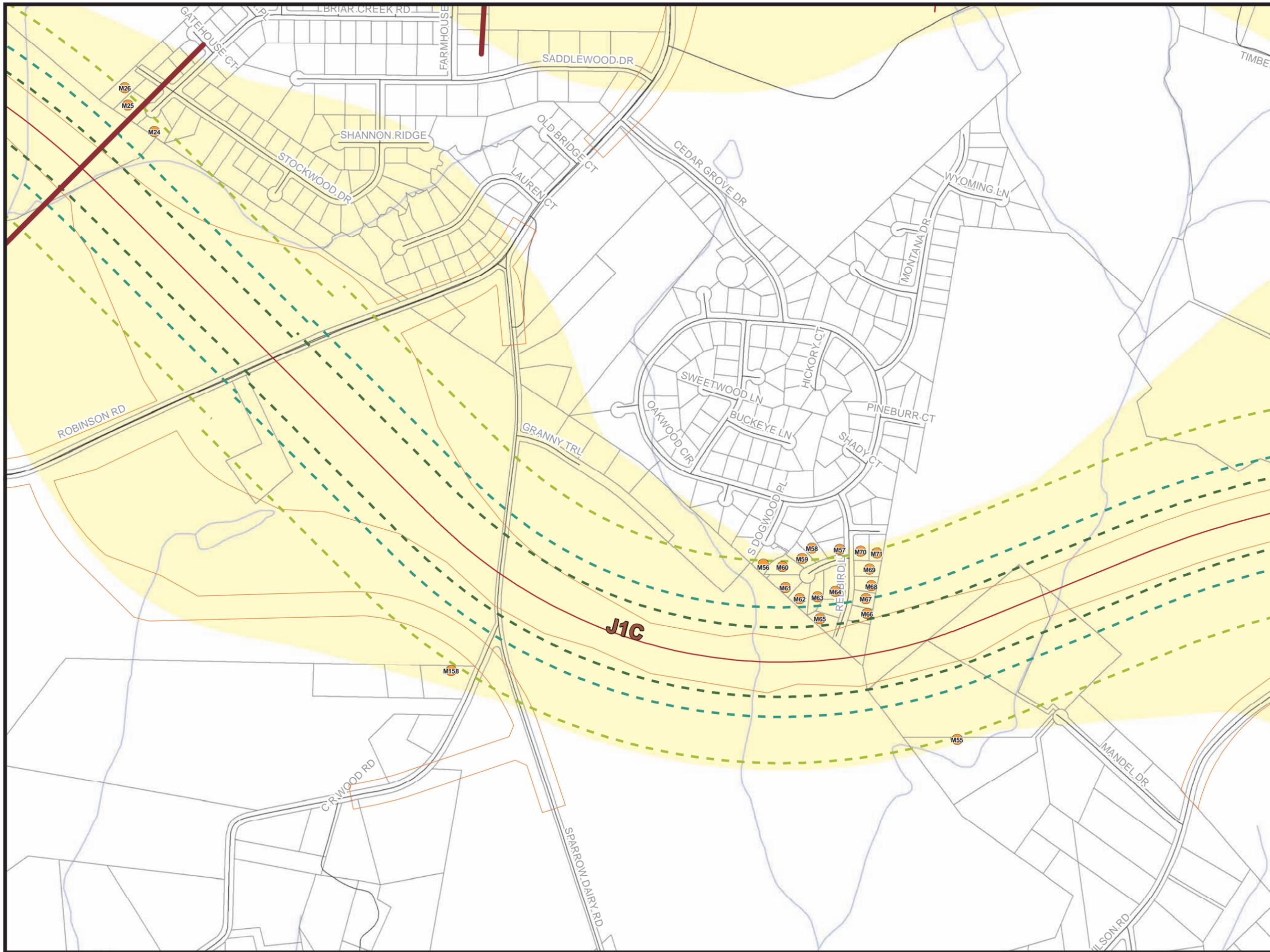
STIP PROJECT  
NO. U-3321

Gaston County and  
Mecklenburg County

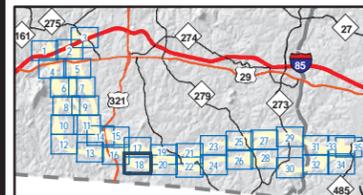
**GASTON EAST-WEST  
CONNECTOR**

**2030 NOISE CONTOURS  
and SENSITIVE  
RECEPTOR LOCATIONS**

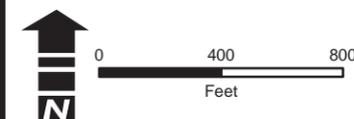
**Figure G-17**



- Legend**
- Receptor Points
  - SegmentBreaks
  - Preliminary Road Design
  - - - 60 dBA Leq
  - - - 66 dBA Leq
  - - - 71 dBA Leq
  - Right of Way
  - 📖 Libraries
  - ⛔ Churches
  - ⚰ Cemeteries
  - 🎓 Schools
  - ▭ School Property
  - Streets
  - ≡ Railroad
  - ▭ Parcels
  - 🌳 Parks
  - ▭ Private Recreation Facilities and Attractions
  - Hydrology
  - ▭ Detailed Study Area
  - KJA** Segment Name



Source: Gaston County and Mecklenburg County Map Printed April 2009.



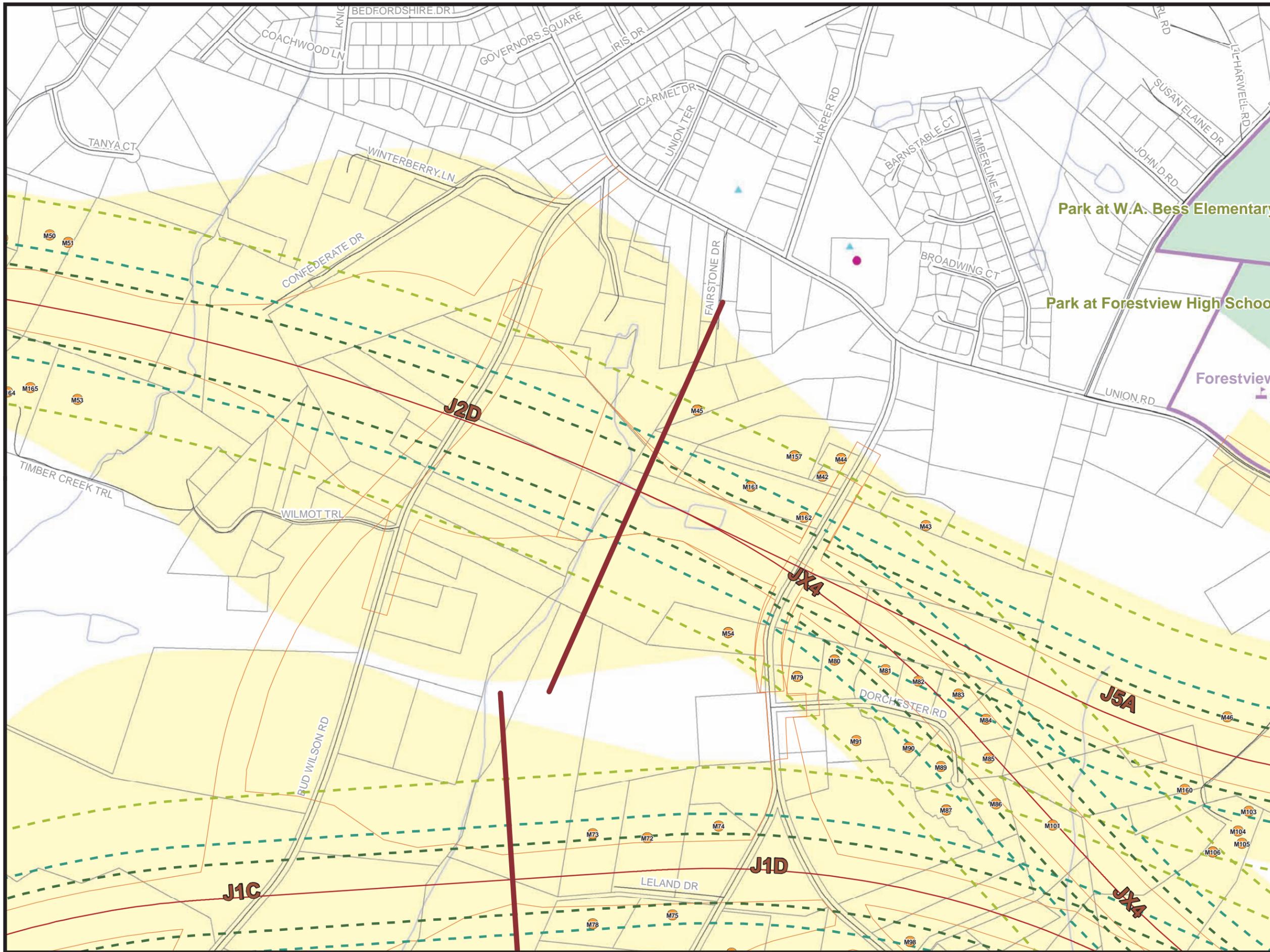
STIP PROJECT NO. U-3321

Gaston County and Mecklenburg County

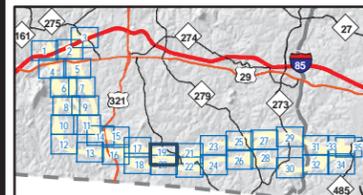
**GASTON EAST-WEST CONNECTOR**

**2030 NOISE CONTOURS and SENSITIVE RECEPTOR LOCATIONS**

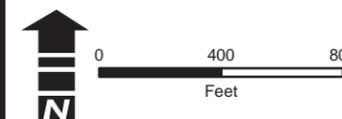
**Figure G-18**



- Legend**
- Receptor Points
  - SegmentBreaks
  - Preliminary Road Design
  - - - 60 dBA Leq
  - - - 66 dBA Leq
  - - - 71 dBA Leq
  - Right of Way
  - 📖 Libraries
  - ⦿ Churches
  - ⚰ Cemeteries
  - 🎓 Schools
  - ▭ School Property
  - Streets
  - Railroad
  - ▭ Parcels
  - 🌳 Parks
  - ▭ Private Recreation Facilities and Attractions
  - Hydrology
  - ▭ Detailed Study Area
  - K3A** Segment Name



Source: Gaston County and Mecklenburg County  
Map Printed April 2009.



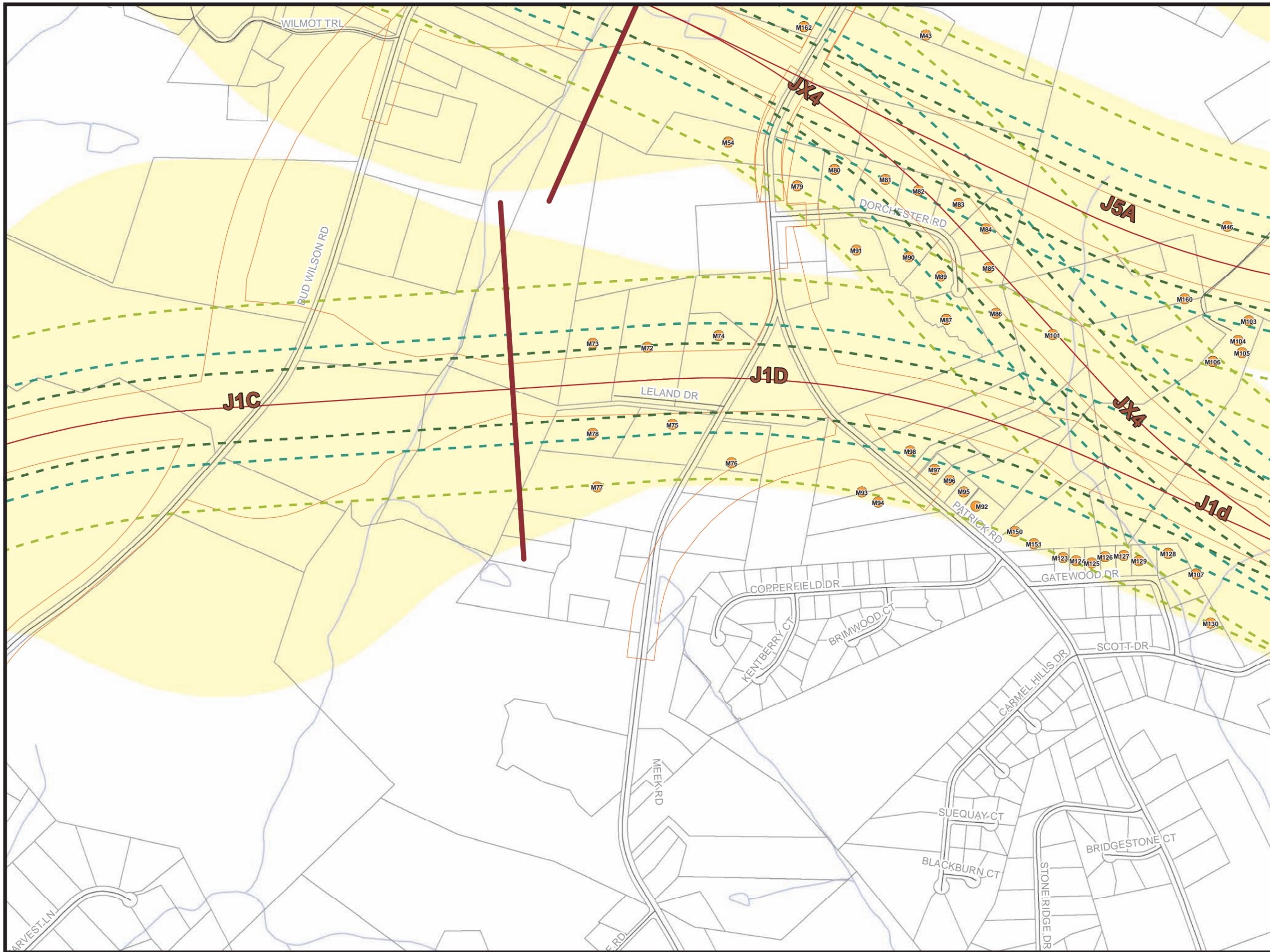
STIP PROJECT NO. U-3321

Gaston County and Mecklenburg County

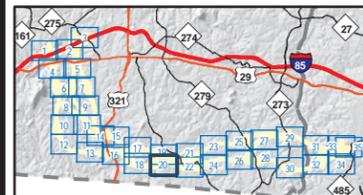
**GASTON EAST-WEST CONNECTOR**

**2030 NOISE CONTOURS and SENSITIVE RECEPTOR LOCATIONS**

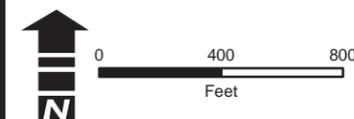
Figure G-19



- Legend**
- Receptor Points
  - SegmentBreaks
  - Preliminary Road Design
  - - - 60 dBA Leq
  - - - 66 dBA Leq
  - - - 71 dBA Leq
  - Right of Way
  - Libraries
  - Churches
  - ▲ Cemeteries
  - Schools
  - School Property
  - Streets
  - = Railroad
  - Parcels
  - Parks
  - Private Recreation Facilities and Attractions
  - Hydrology
  - Detailed Study Area
  - KJA Segment Name



Source: Gaston County and Mecklenburg County  
Map Printed April 2009.



STIP PROJECT  
NO. U-3321

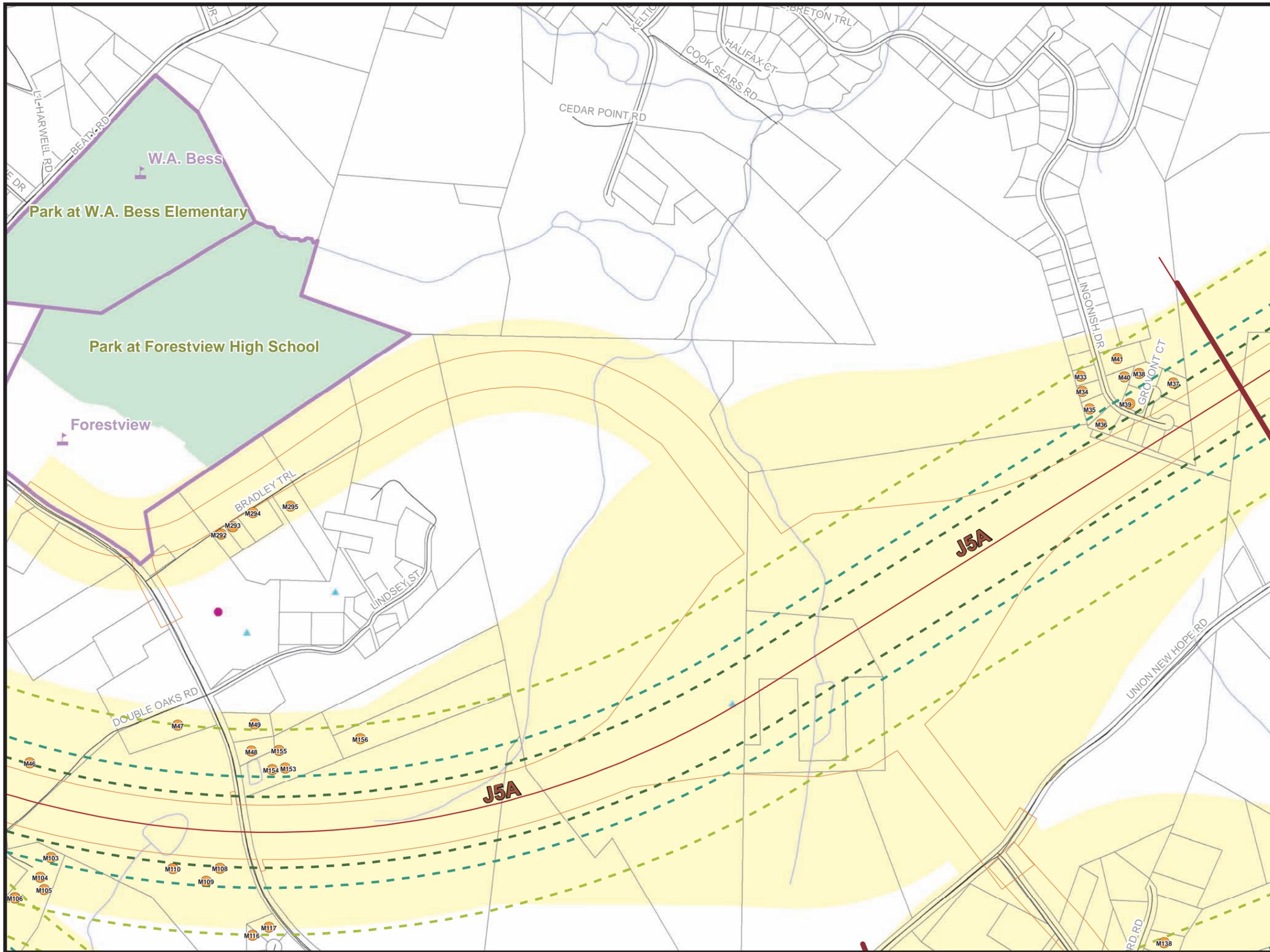
Gaston County and  
Mecklenburg County

**GASTON EAST-WEST  
CONNECTOR**

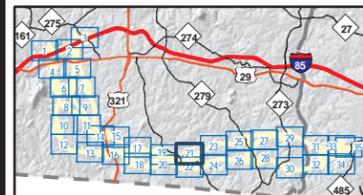
**2030 NOISE CONTOURS  
and SENSITIVE  
RECEPTOR LOCATIONS**

**Figure G-20**

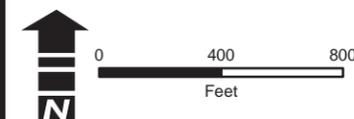
AppG\_2030NoiseContours&ReceptorsRev.mxd AKH 4.10.09



- Legend**
- Receptor Points
  - SegmentBreaks
  - Preliminary Road Design
  - - - 60 dBA Leq
  - - - 66 dBA Leq
  - - - 71 dBA Leq
  - Right of Way
  - 📖 Libraries
  - Churches
  - ▲ Cemeteries
  - 🎓 Schools
  - ▭ School Property
  - Streets
  - Railroad
  - Parcels
  - Parks
  - Private Recreation Facilities and Attractions
  - Hydrology
  - Detailed Study Area
- KGA Segment Name**



Source: Gaston County and Mecklenburg County  
Map Printed April 2009.



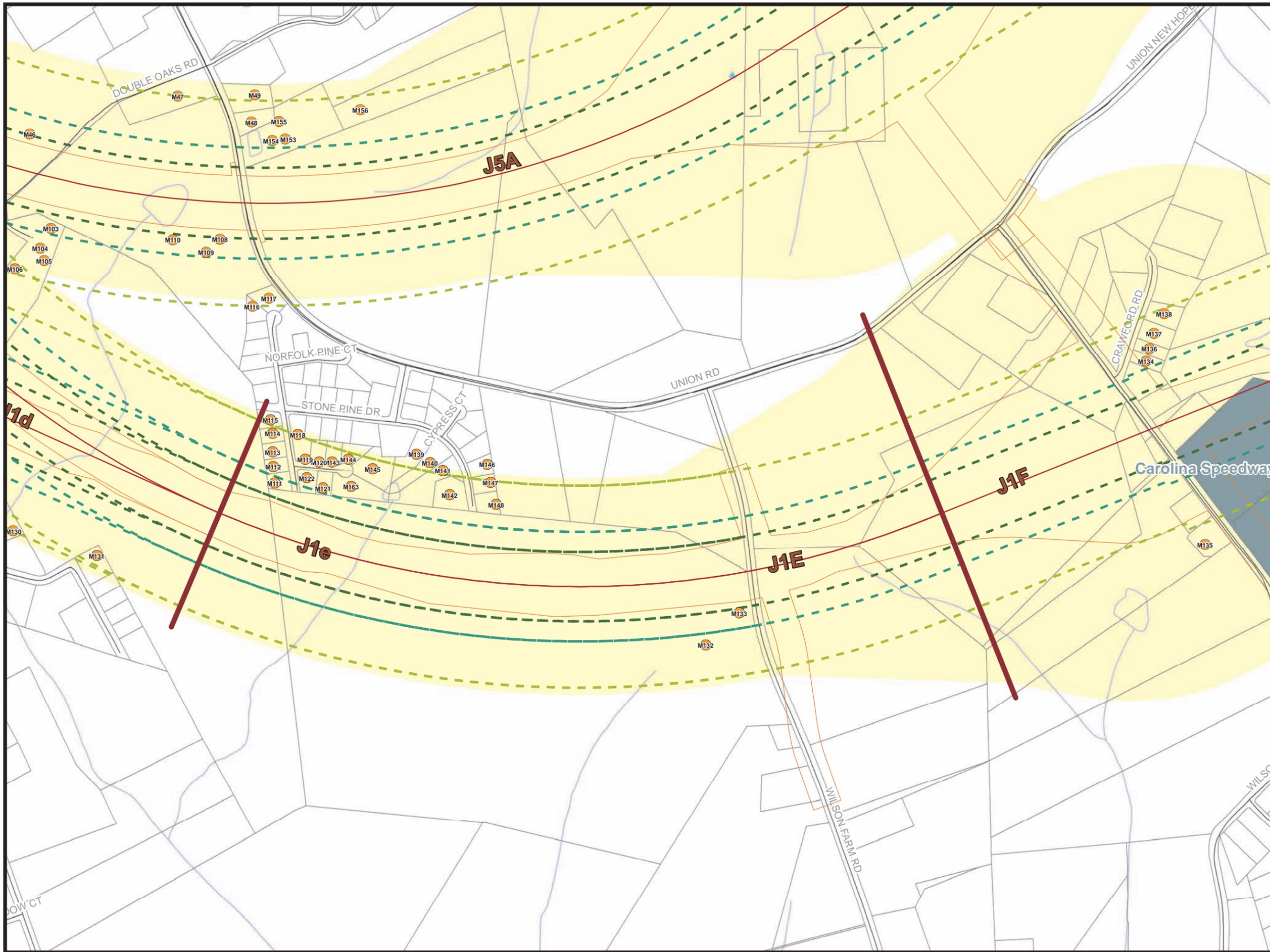
STIP PROJECT  
NO. U-3321

Gaston County and  
Mecklenburg County

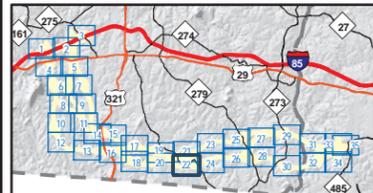
**GASTON EAST-WEST  
CONNECTOR**

**2030 NOISE CONTOURS  
and SENSITIVE  
RECEPTOR LOCATIONS**

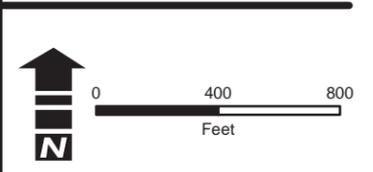
**Figure G-21**



- Legend**
- Receptor Points
  - SegmentBreaks
  - Preliminary Road Design
  - 60 dBA Leq
  - 66 dBA Leq
  - 71 dBA Leq
  - Right of Way
  - 📖 Libraries
  - ⦿ Churches
  - ⚰ Cemeteries
  - 🎓 Schools
  - ▭ School Property
  - Streets
  - Railroad
  - ▭ Parcels
  - 🌳 Parks
  - ▭ Private Recreation Facilities and Attractions
  - Hydrology
  - ▭ Detailed Study Area
  - KIA** Segment Name



Source: Gaston County and Mecklenburg County Map Printed April 2009.



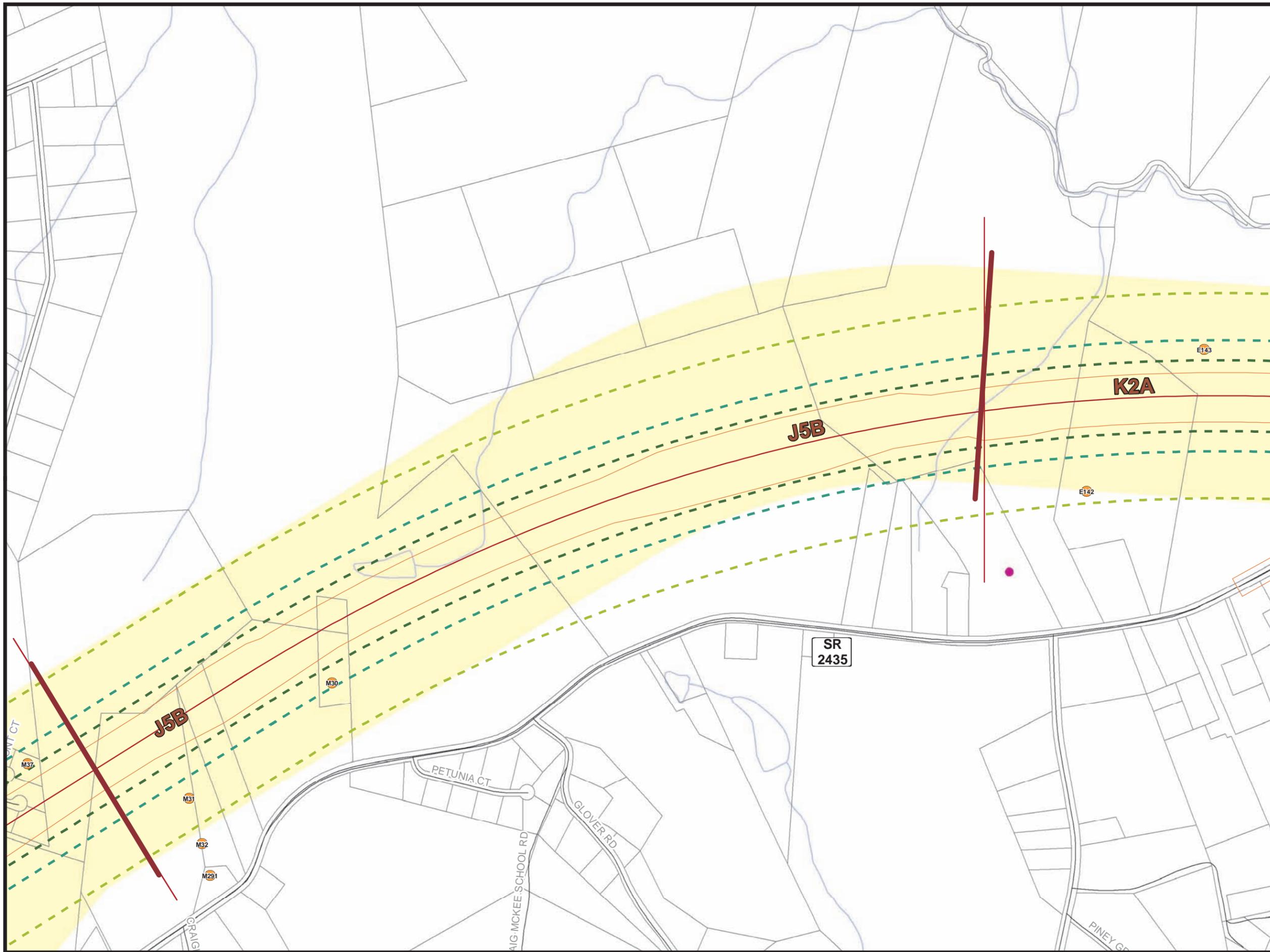
STIP PROJECT NO. U-3321

Gaston County and Mecklenburg County

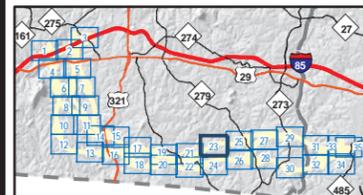
**GASTON EAST-WEST CONNECTOR**

**2030 NOISE CONTOURS and SENSITIVE RECEPTOR LOCATIONS**

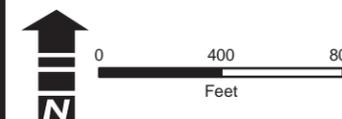
**Figure G-22**



- Legend**
- Receptor Points
  - SegmentBreaks
  - Preliminary Road Design
  - - - 60 dBA Leq
  - - - 66 dBA Leq
  - - - 71 dBA Leq
  - Right of Way
  - 📖 Libraries
  - Churches
  - ▲ Cemeteries
  - 🎓 Schools
  - ▭ School Property
  - Streets
  - ≡ Railroad
  - ▭ Parcels
  - 🌳 Parks
  - ▭ Private Recreation Facilities and Attractions
  - Hydrology
  - ▭ Detailed Study Area
- K2A Segment Name**



Source: Gaston County and Mecklenburg County Map Printed April 2009.



STIP PROJECT NO. U-3321

Gaston County and Mecklenburg County

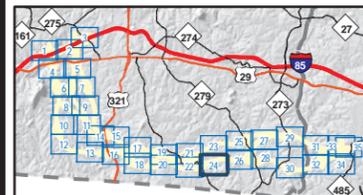
**GASTON EAST-WEST CONNECTOR**

**2030 NOISE CONTOURS and SENSITIVE RECEPTOR LOCATIONS**

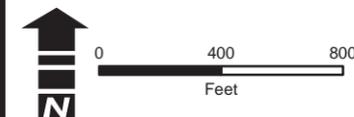
**Figure G-23**



- Legend**
- Receptor Points
  - SegmentBreaks
  - Preliminary Road Design
  - - - 60 dBA Leq
  - - - 66 dBA Leq
  - - - 71 dBA Leq
  - Right of Way
  - 📖 Libraries
  - ⛪ Churches
  - ⚰ Cemeteries
  - 🎓 Schools
  - 🏫 School Property
  - Streets
  - 🚂 Railroad
  - ▭ Parcels
  - 🌳 Parks
  - 🏠 Private Recreation Facilities and Attractions
  - 🌊 Hydrology
  - 🟡 Detailed Study Area
- K1A Segment Name**



Source: Gaston County and Mecklenburg County  
Map Printed April 2009.



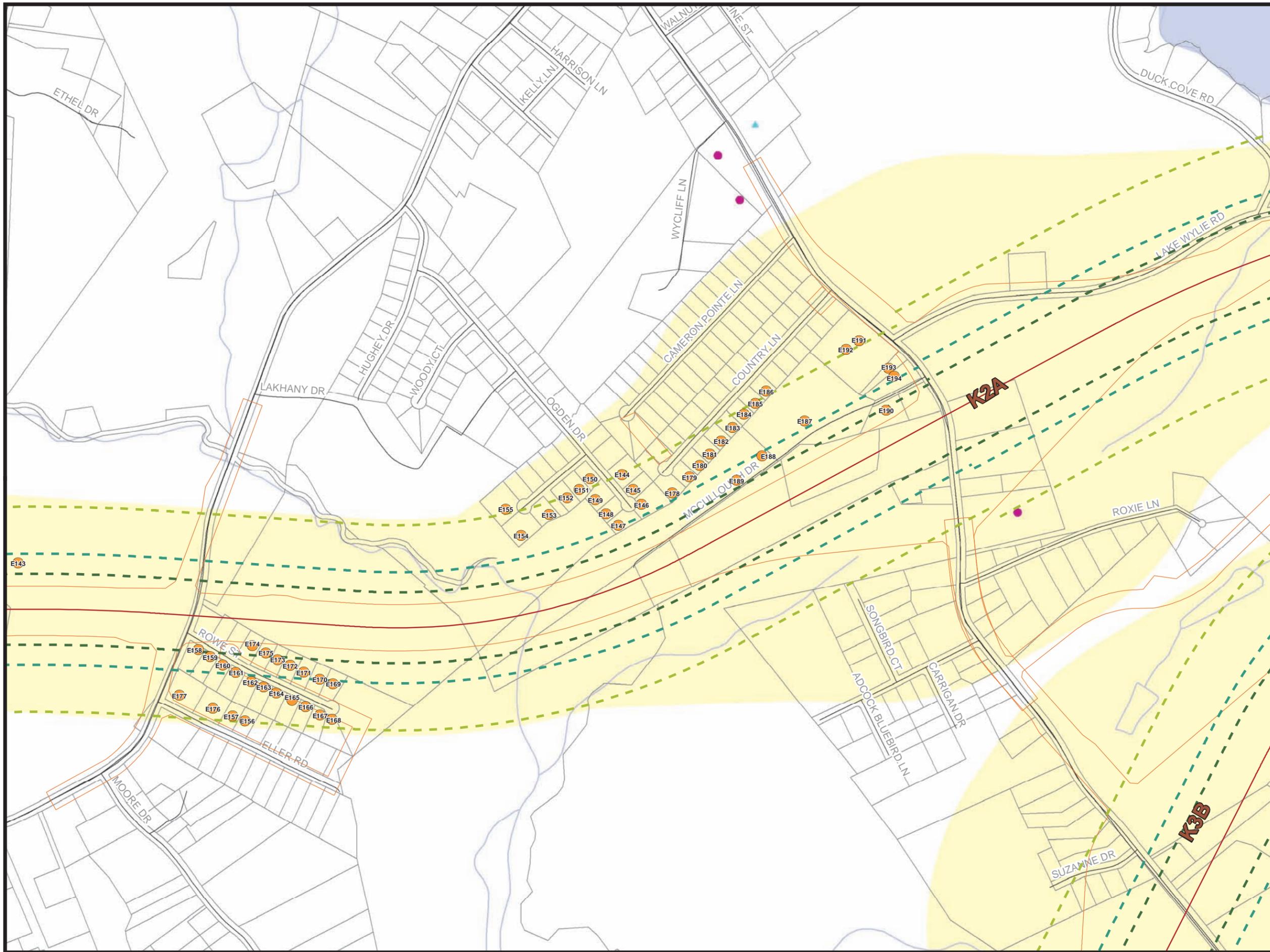
STIP PROJECT  
NO. U-3321

Gaston County and  
Mecklenburg County

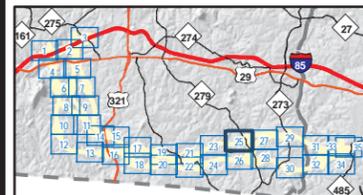
**GASTON EAST-WEST  
CONNECTOR**

**2030 NOISE CONTOURS  
and SENSITIVE  
RECEPTOR LOCATIONS**

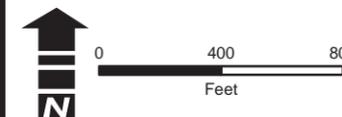
**Figure G-24**



- Legend**
- Receptor Points
  - SegmentBreaks
  - Preliminary Road Design
  - - - 60 dBA Leq
  - - - 66 dBA Leq
  - - - 71 dBA Leq
  - Right of Way
  - 📖 Libraries
  - ⛔ Churches
  - ⚰ Cemeteries
  - 🎓 Schools
  - 🏫 School Property
  - Streets
  - Railroad
  - ▭ Parcels
  - 🌳 Parks
  - 🏠 Private Recreation Facilities and Attractions
  - Hydrology
  - 🟡 Detailed Study Area
  - K2A** Segment Name



Source: Gaston County and Mecklenburg County  
Map Printed April 2009.



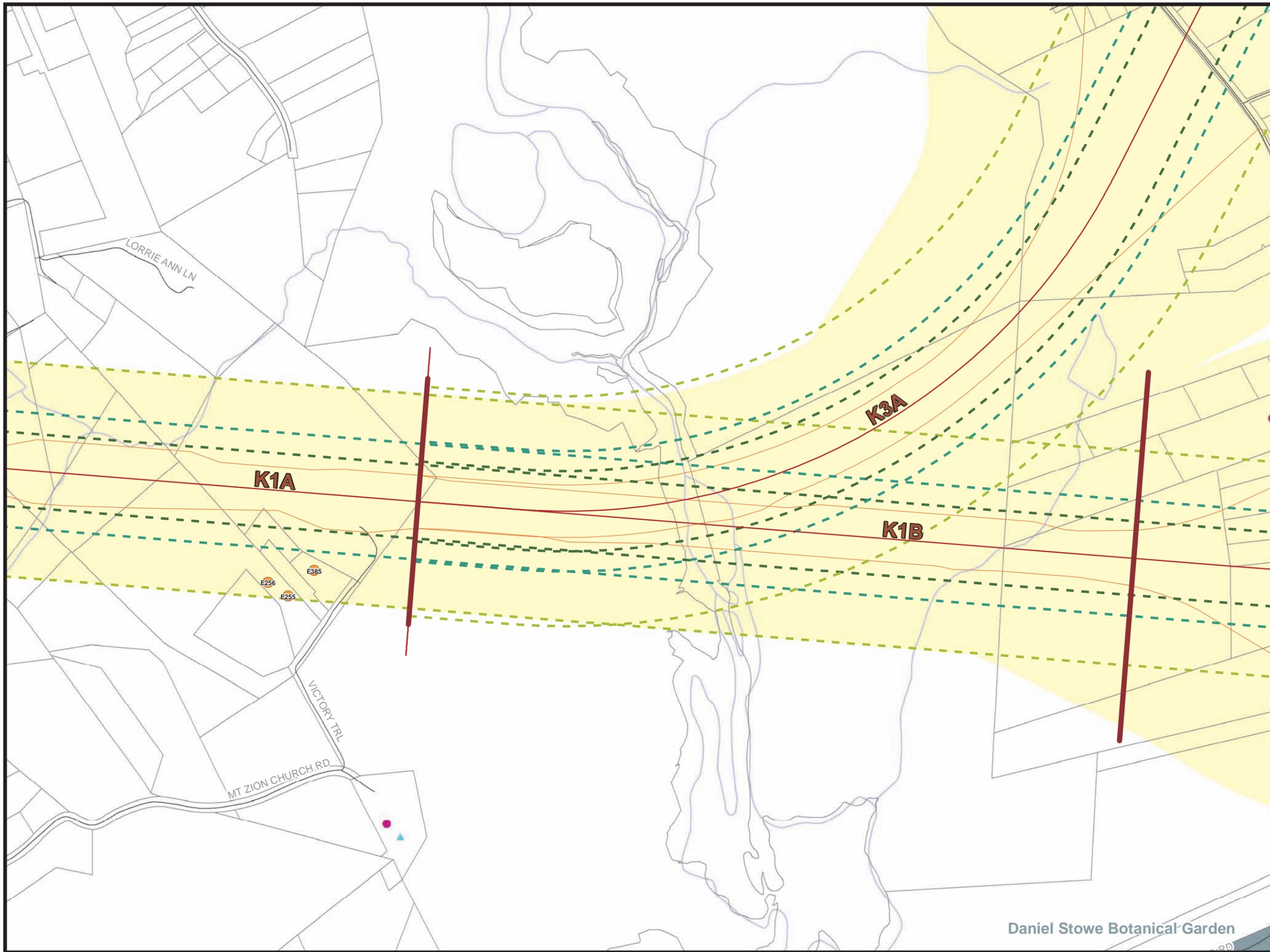
STIP PROJECT  
NO. U-3321

Gaston County and  
Mecklenburg County

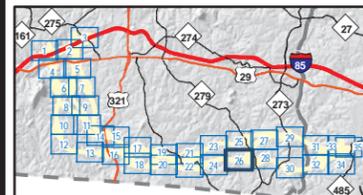
**GASTON EAST-WEST  
CONNECTOR**

**2030 NOISE CONTOURS  
and SENSITIVE  
RECEPTOR LOCATIONS**

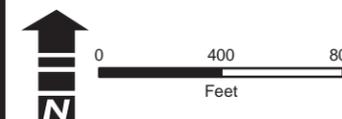
**Figure G-25**



- Legend**
- Receptor Points
  - SegmentBreaks
  - Preliminary Road Design
  - 60 dBA Leq
  - 66 dBA Leq
  - 71 dBA Leq
  - Right of Way
  - 📖 Libraries
  - Churches
  - ▲ Cemeteries
  - Schools
  - 🏫 School Property
  - Streets
  - Railroad
  - Parcels
  - Parks
  - Private Recreation Facilities and Attractions
  - Hydrology
  - Detailed Study Area
- K1A Segment Name**



Source: Gaston County and Mecklenburg County  
Map Printed April 2009.



STIP PROJECT  
NO. U-3321

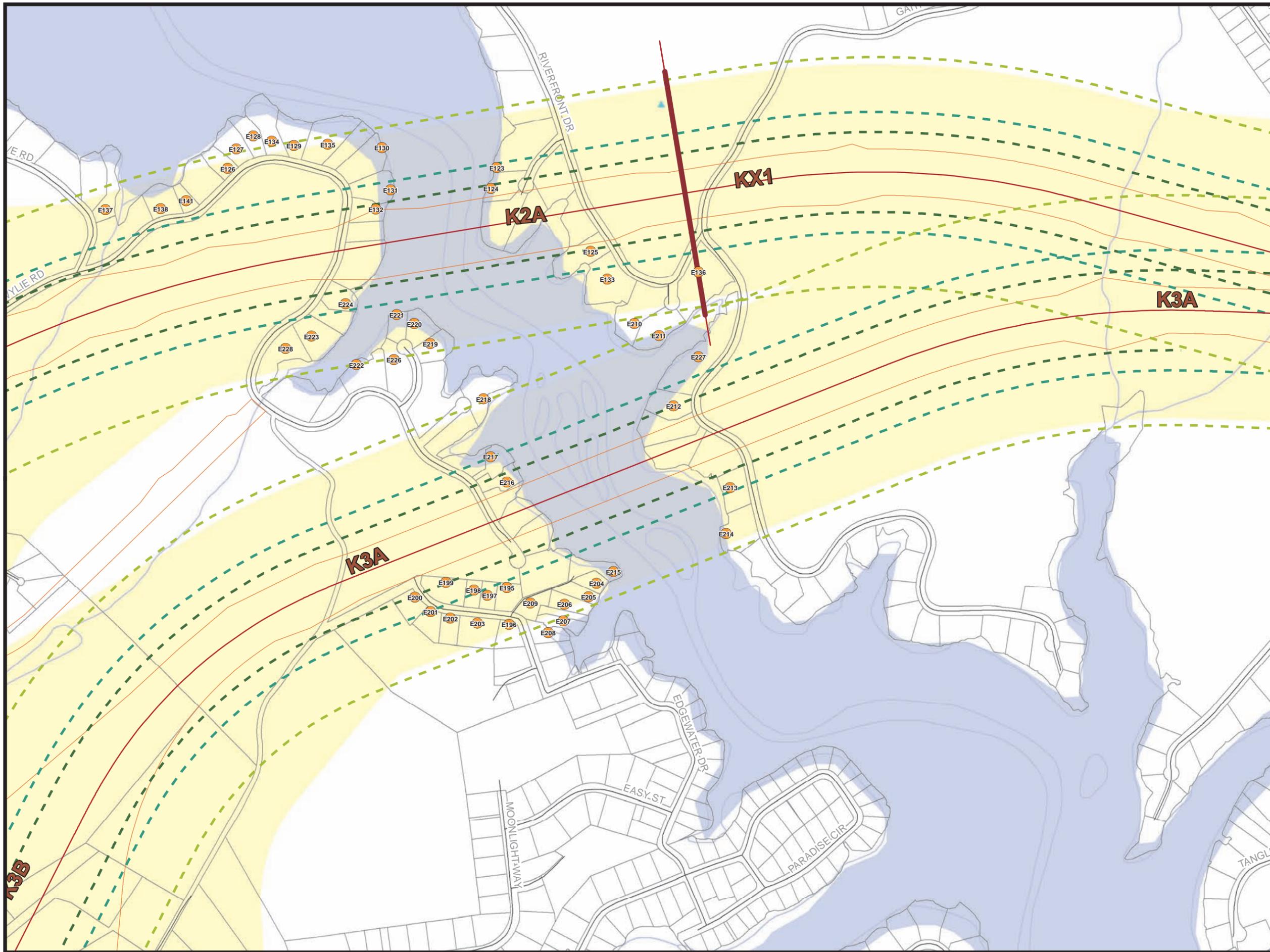
Gaston County and  
Mecklenburg County

**GASTON EAST-WEST  
CONNECTOR**

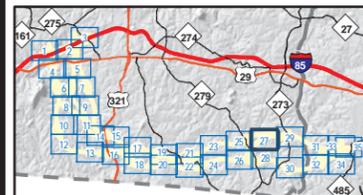
**2030 NOISE CONTOURS  
and SENSITIVE  
RECEPTOR LOCATIONS**

Daniel Stowe Botanical Garden

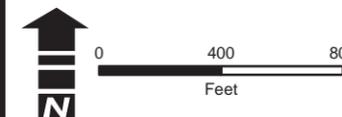
Figure G-26



- Legend**
- Receptor Points
  - SegmentBreaks
  - Preliminary Road Design
  - - - 60 dBA Leq
  - - - 66 dBA Leq
  - - - 71 dBA Leq
  - Right of Way
  - 📖 Libraries
  - ⛔ Churches
  - ⚰ Cemeteries
  - 🎓 Schools
  - 🏫 School Property
  - Streets
  - 🚂 Railroad
  - ▭ Parcels
  - 🌳 Parks
  - 🏖 Private Recreation Facilities and Attractions
  - 🌊 Hydrology
  - 🟡 Detailed Study Area
- K3A Segment Name**



Source: Gaston County and Mecklenburg County  
Map Printed April 2009.



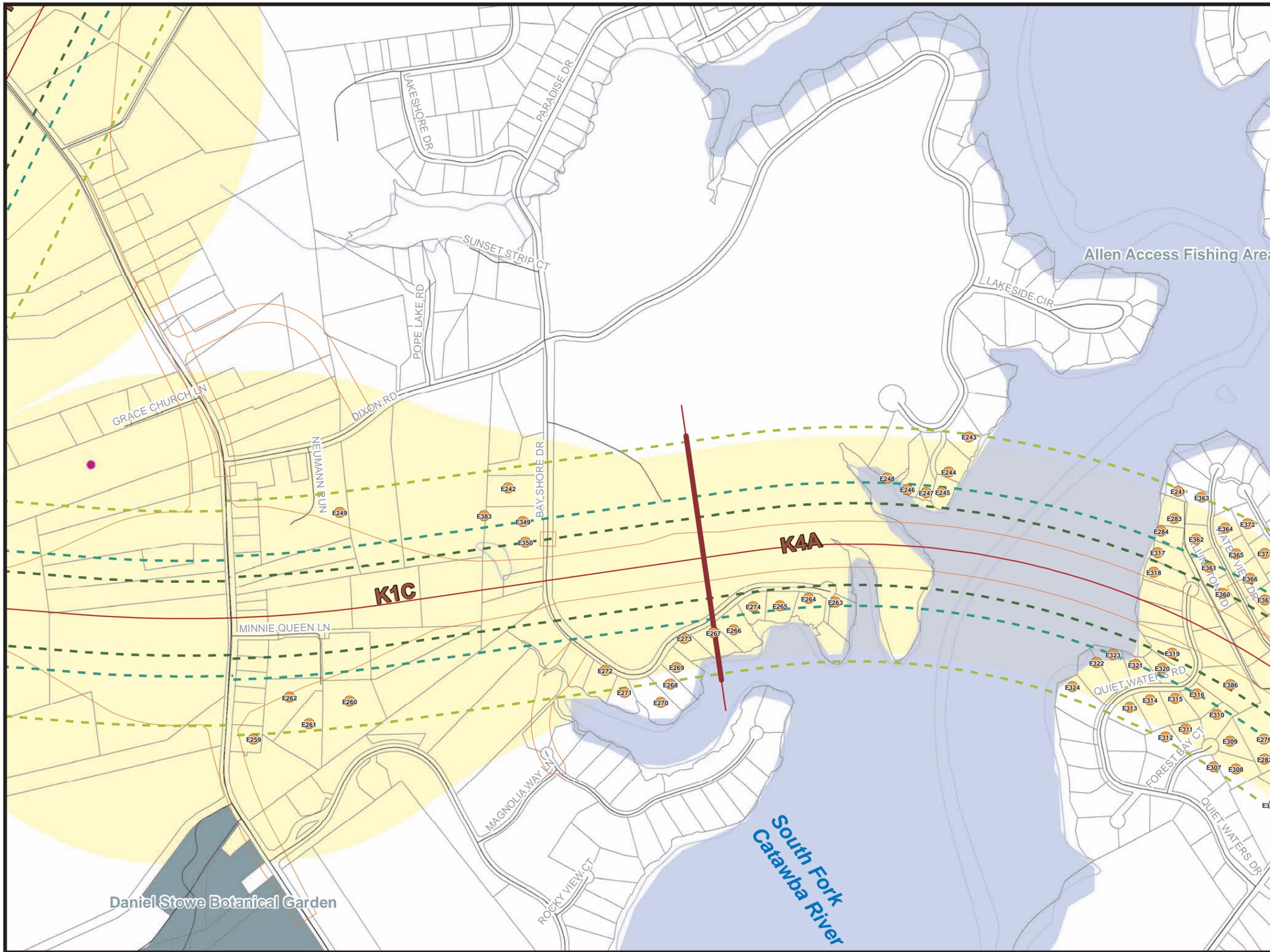
STIP PROJECT  
NO. U-3321

Gaston County and  
Mecklenburg County

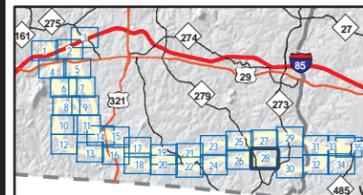
**GASTON EAST-WEST  
CONNECTOR**

**2030 NOISE CONTOURS  
and SENSITIVE  
RECEPTOR LOCATIONS**

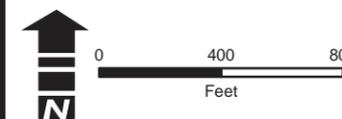
**Figure G-27**



- Legend**
- Receptor Points
  - SegmentBreaks
  - Preliminary Road Design
  - - - 60 dBA Leq
  - - - 66 dBA Leq
  - - - 71 dBA Leq
  - Right of Way
  - Libraries
  - Churches
  - ▲ Cemeteries
  - Schools
  - School Property
  - Streets
  - = Railroad
  - Parcels
  - Parks
  - Private Recreation Facilities and Attractions
  - Hydrology
  - Detailed Study Area
- KSA Segment Name**



Source: Gaston County and Mecklenburg County  
Map Printed April 2009.



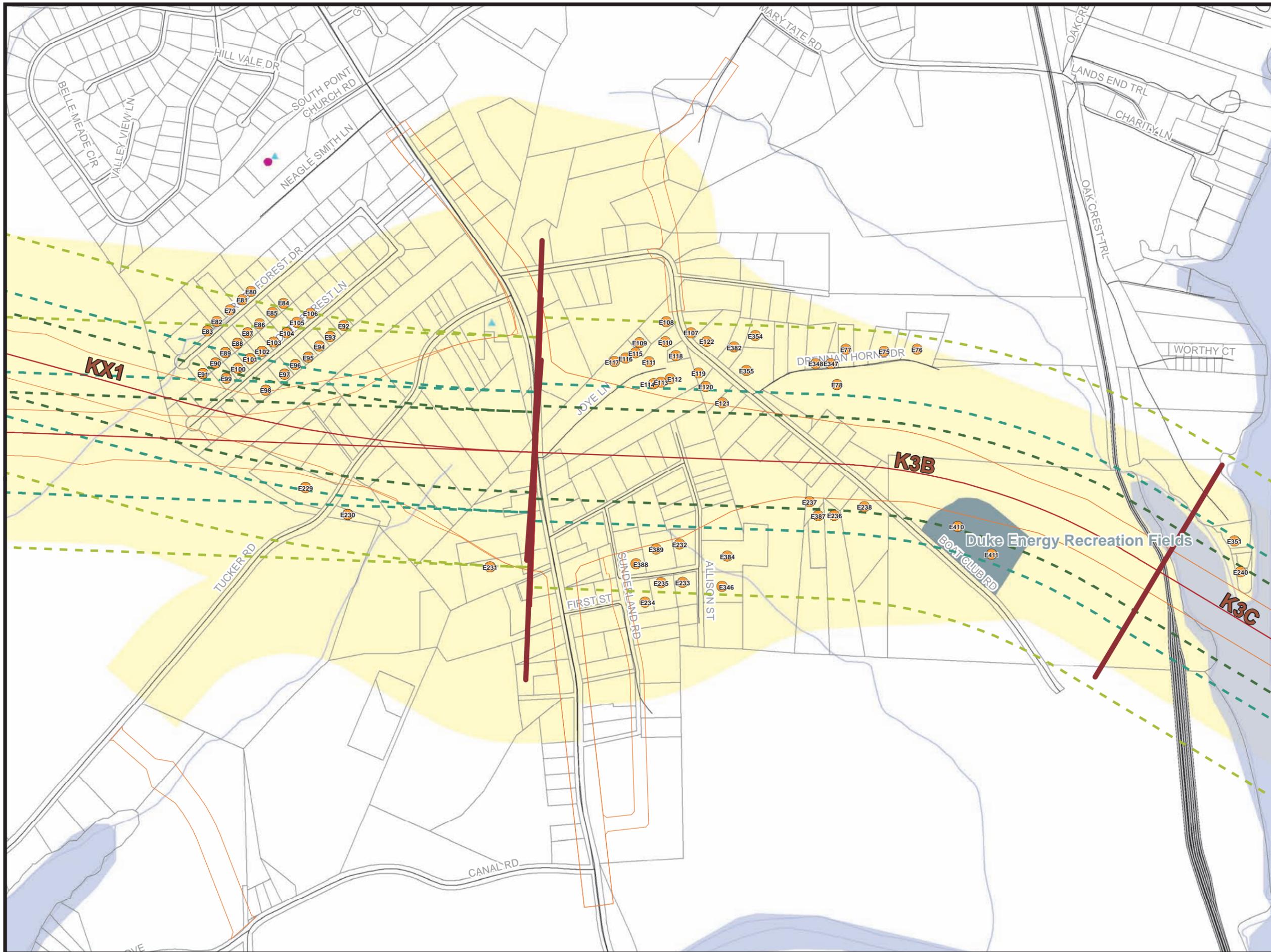
STIP PROJECT  
NO. U-3321

Gaston County and  
Mecklenburg County

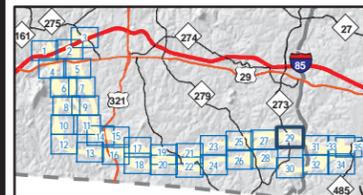
**GASTON EAST-WEST  
CONNECTOR**

**2030 NOISE CONTOURS  
and SENSITIVE  
RECEPTOR LOCATIONS**

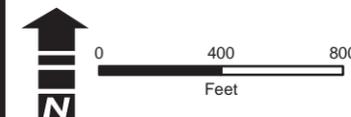
**Figure G-28**



- Legend**
- Receptor Points
  - SegmentBreaks
  - Preliminary Road Design
  - - - 60 dBA Leq
  - - - 66 dBA Leq
  - - - 71 dBA Leq
  - Right of Way
  - 📖 Libraries
  - ⛔ Churches
  - ⚰ Cemeteries
  - 🎓 Schools
  - 🏫 School Property
  - Streets
  - 🚂 Railroad
  - ▭ Parcels
  - 🌳 Parks
  - 🏖️ Private Recreation Facilities and Attractions
  - 🌊 Hydrology
  - 🟡 Detailed Study Area
  - K3A Segment Name**



Source: Gaston County and Mecklenburg County  
Map Printed April 2009.



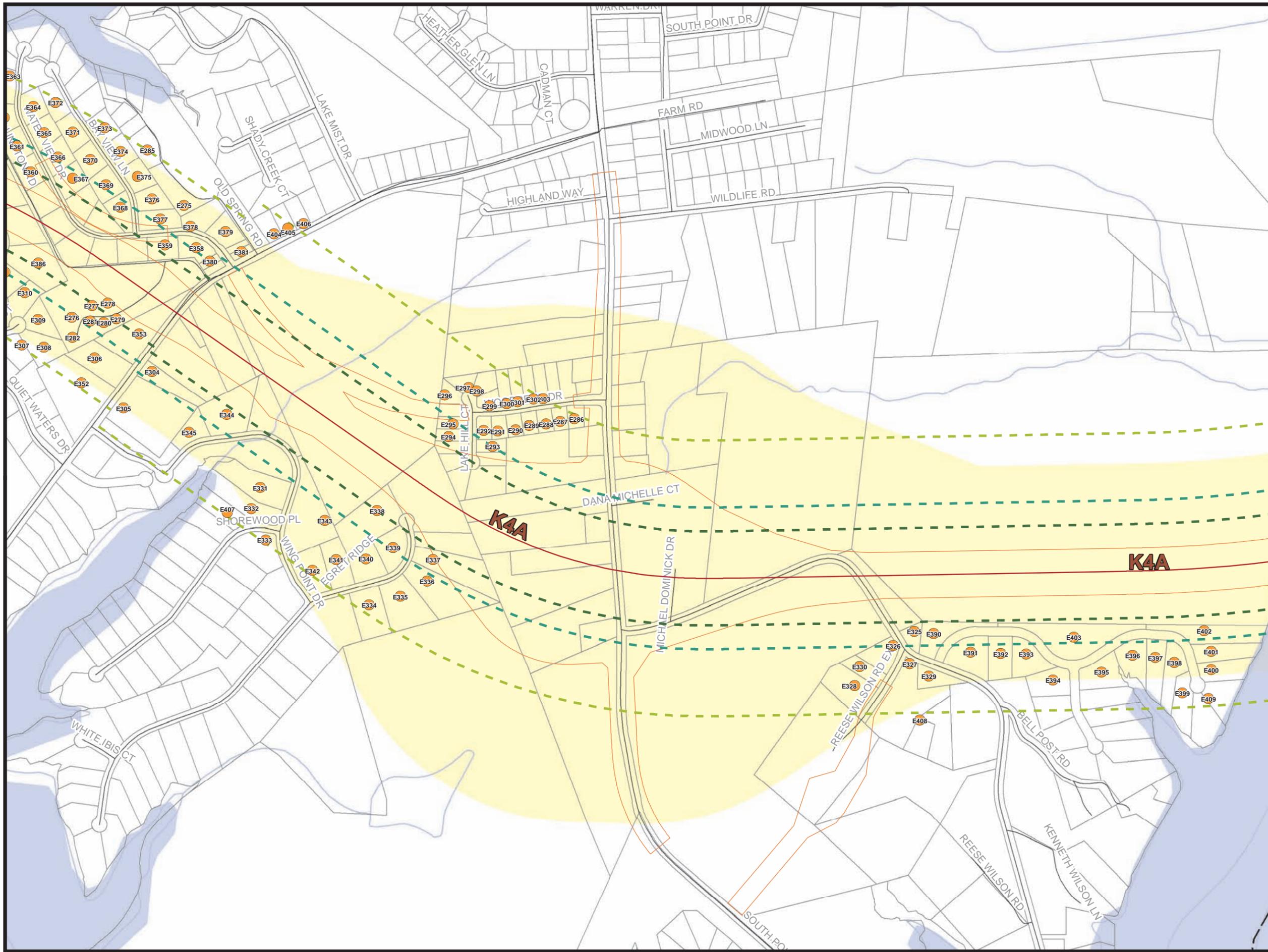
STIP PROJECT  
NO. U-3321

Gaston County and  
Mecklenburg County

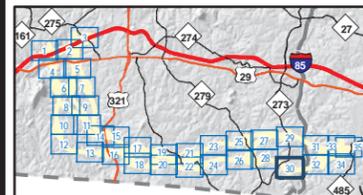
**GASTON EAST-WEST  
CONNECTOR**

**2030 NOISE CONTOURS  
and SENSITIVE  
RECEPTOR LOCATIONS**

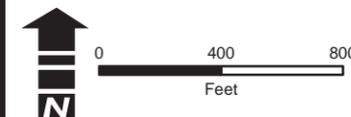
**Figure G-29**



- Legend**
- Receptor Points
  - SegmentBreaks
  - Preliminary Road Design
  - - - 60 dBA Leq
  - - - 66 dBA Leq
  - - - 71 dBA Leq
  - Right of Way
  - 📖 Libraries
  - ⛪ Churches
  - ⚰ Cemeteries
  - 🎓 Schools
  - ▭ School Property
  - Streets
  - ≡ Railroad
  - ▭ Parcels
  - 🌳 Parks
  - 🏠 Private Recreation Facilities and Attractions
  - Hydrology
  - 🟡 Detailed Study Area
- K4A Segment Name**



Source: Gaston County and Mecklenburg County  
Map Printed April 2009.



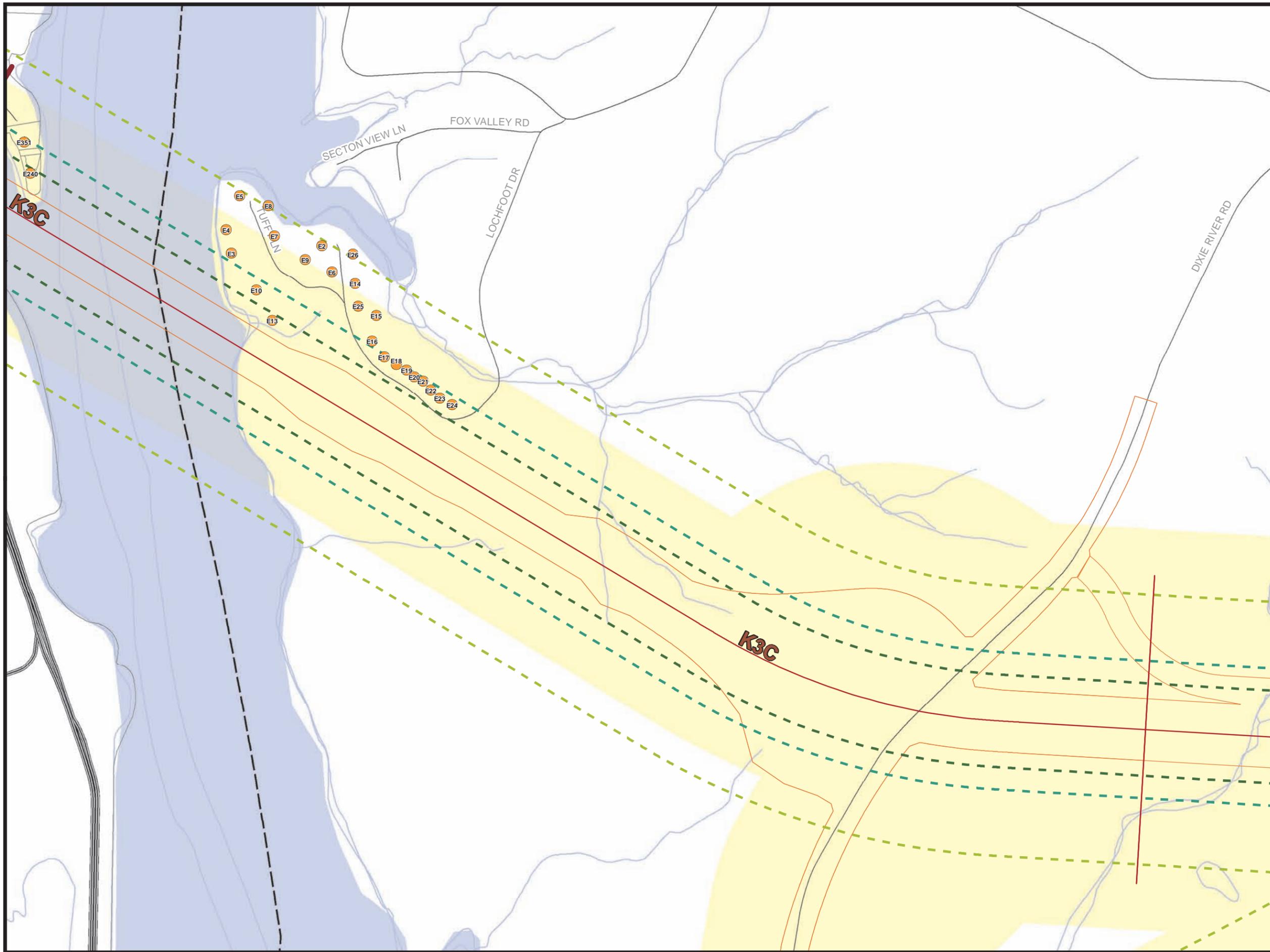
STIP PROJECT NO. U-3321

Gaston County and Mecklenburg County

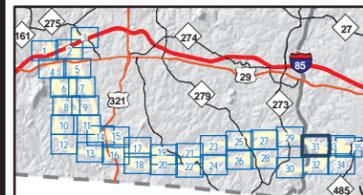
**GASTON EAST-WEST CONNECTOR**

**2030 NOISE CONTOURS and SENSITIVE RECEPTOR LOCATIONS**

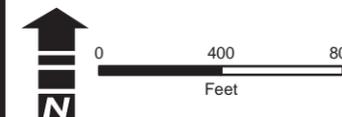
**Figure G-30**



- Legend**
- Receptor Points
  - SegmentBreaks
  - Preliminary Road Design
  - - - 60 dBA Leq
  - - - 66 dBA Leq
  - - - 71 dBA Leq
  - Right of Way
  - 📖 Libraries
  - ⛪ Churches
  - ⚪ Cemeteries
  - 🎓 Schools
  - ▭ School Property
  - Streets
  - ≡ Railroad
  - Parcels
  - 🌳 Parks
  - 🏠 Private Recreation Facilities and Attractions
  - Hydrology
  - 🟡 Detailed Study Area
  - K3C** Segment Name



Source: Gaston County and Mecklenburg County  
Map Printed April 2009.



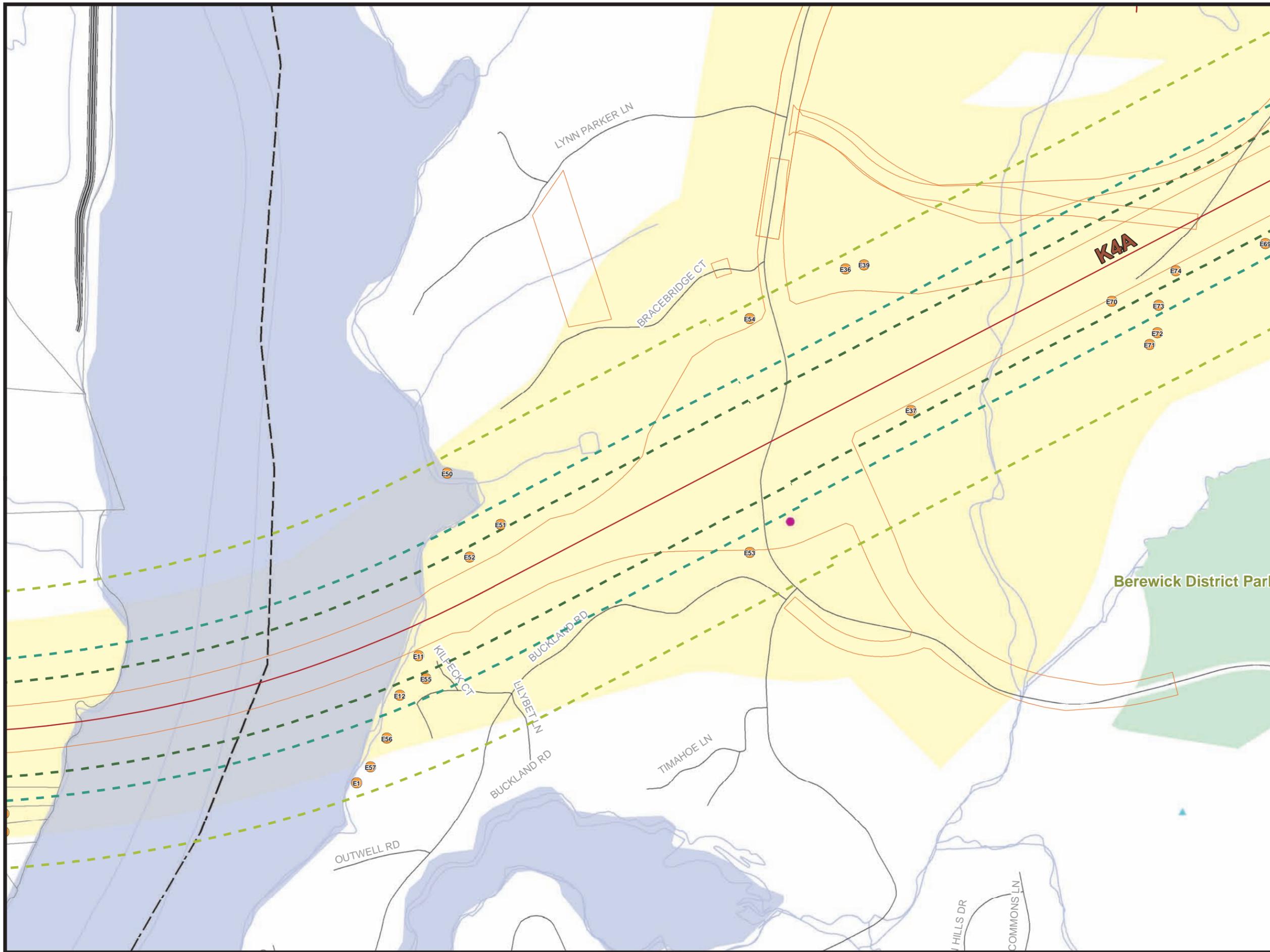
STIP PROJECT  
NO. U-3321

Gaston County and  
Mecklenburg County

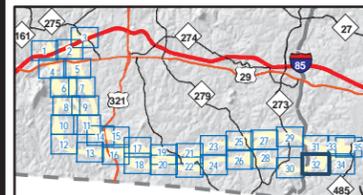
**GASTON EAST-WEST  
CONNECTOR**

**2030 NOISE CONTOURS  
and SENSITIVE  
RECEPTOR LOCATIONS**

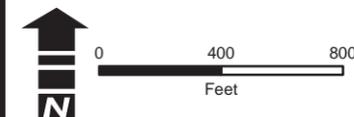
**Figure G-31**



- Legend**
- Receptor Points
  - SegmentBreaks
  - Preliminary Road Design
  - - - 60 dBA Leq
  - - - 66 dBA Leq
  - - - 71 dBA Leq
  - Right of Way
  - 📖 Libraries
  - ⦿ Churches
  - ⚰ Cemeteries
  - 🎓 Schools
  - ▭ School Property
  - Streets
  - ≡ Railroad
  - ▭ Parcels
  - 🌳 Parks
  - 🏠 Private Recreation Facilities and Attractions
  - Hydrology
  - 🟡 Detailed Study Area
- K4A Segment Name**



Source: Gaston County and Mecklenburg County Map Printed April 2009.



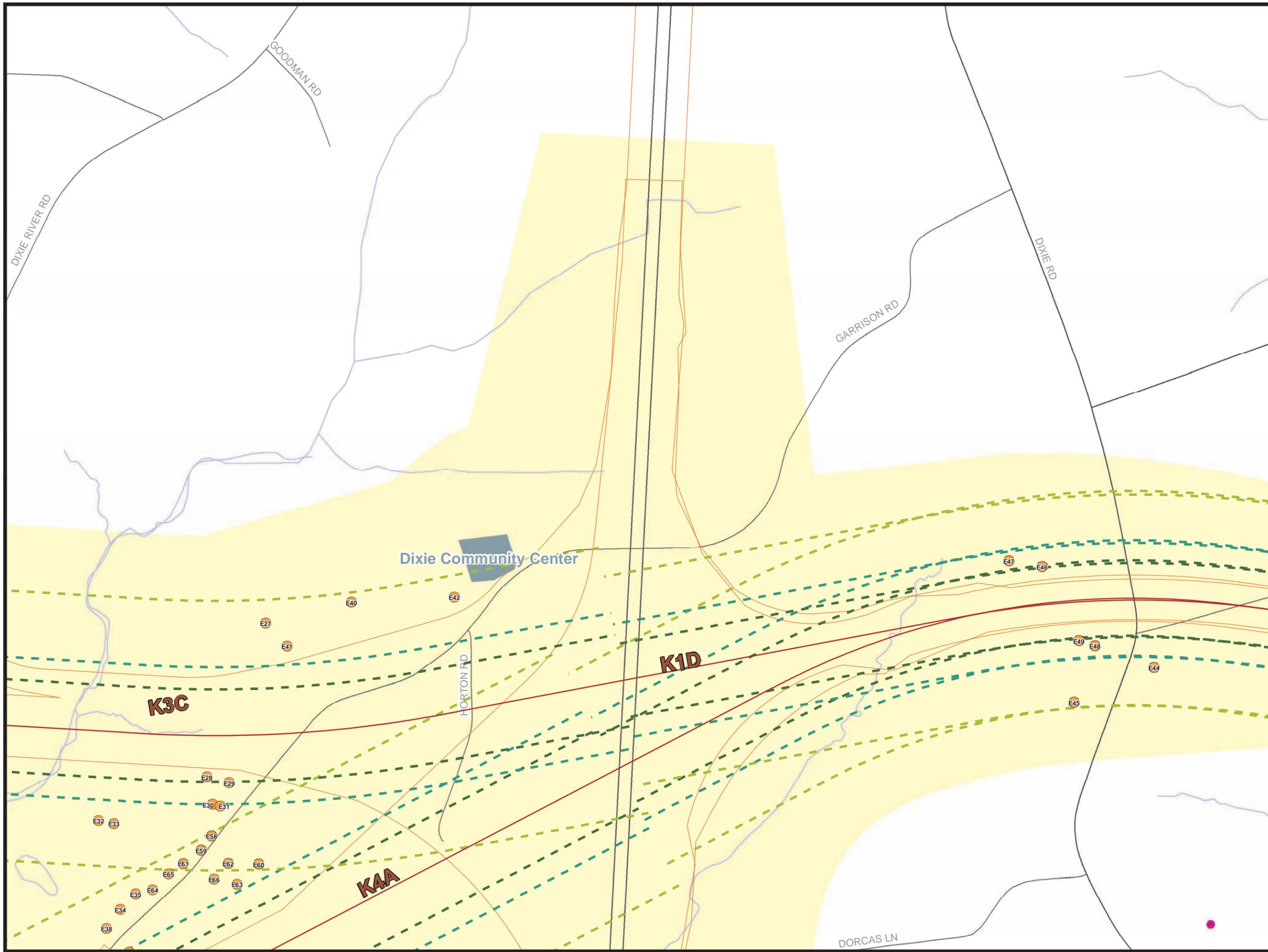
STIP PROJECT NO. U-3321

Gaston County and Mecklenburg County

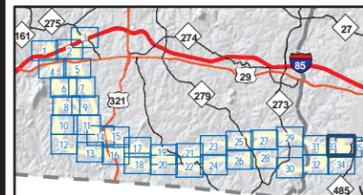
**GASTON EAST-WEST CONNECTOR**

**2030 NOISE CONTOURS and SENSITIVE RECEPTOR LOCATIONS**

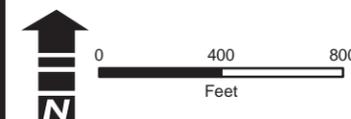
**Figure G-32**



- Legend**
- Receptor Points
  - SegmentBreaks
  - Preliminary Road Design
  - - - 60 dBA Leq
  - - - 66 dBA Leq
  - - - 71 dBA Leq
  - Right of Way
  - 📖 Libraries
  - Churches
  - ▲ Cemeteries
  - 🎓 Schools
  - ▭ School Property
  - Streets
  - ≡ Railroad
  - Parcels
  - Parks
  - Private Recreation Facilities and Attractions
  - Hydrology
  - Detailed Study Area
  - K3A** Segment Name



Source: Gaston County and Mecklenburg County  
Map Printed April 2009.



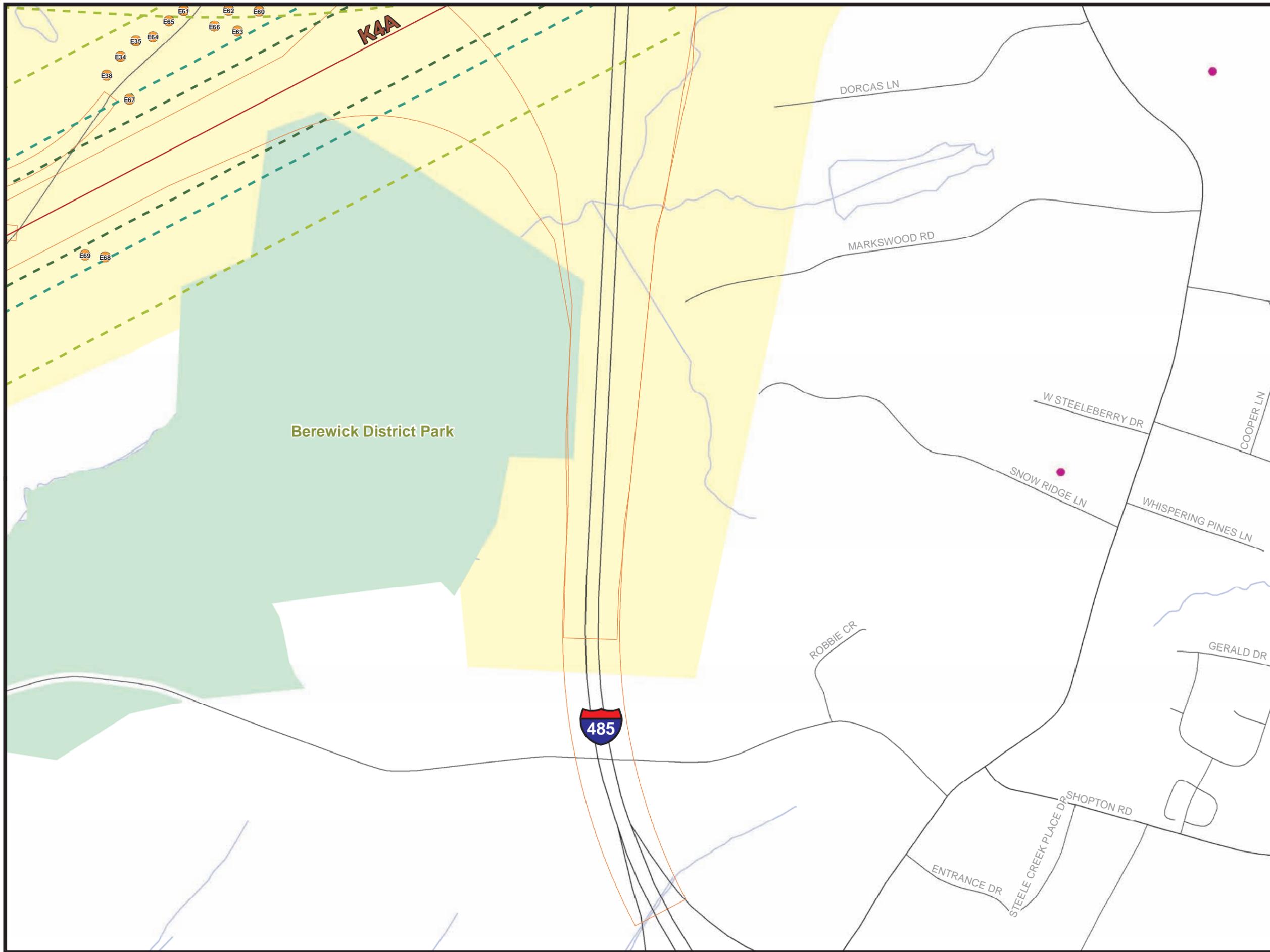
STIP PROJECT  
NO. U-3321

Gaston County and  
Mecklenburg County

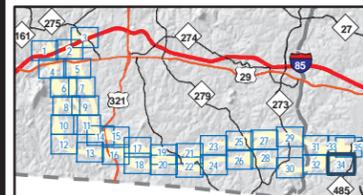
**GASTON EAST-WEST  
CONNECTOR**

**2030 NOISE CONTOURS  
and SENSITIVE  
RECEPTOR LOCATIONS**

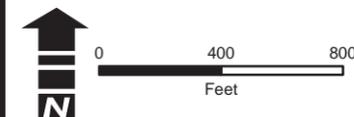
**Figure G-33**



- Legend**
- Receptor Points
  - SegmentBreaks
  - Preliminary Road Design
  - - - 60 dBA Leq
  - - - 66 dBA Leq
  - - - 71 dBA Leq
  - Right of Way
  - Libraries
  - Churches
  - ▲ Cemeteries
  - Schools
  - School Property
  - Streets
  - = Railroad
  - Parcels
  - Parks
  - Private Recreation Facilities and Attractions
  - Hydrology
  - Detailed Study Area
  - K4A** Segment Name



Source: Gaston County and Mecklenburg County Map Printed April 2009.



STIP PROJECT NO. U-3321

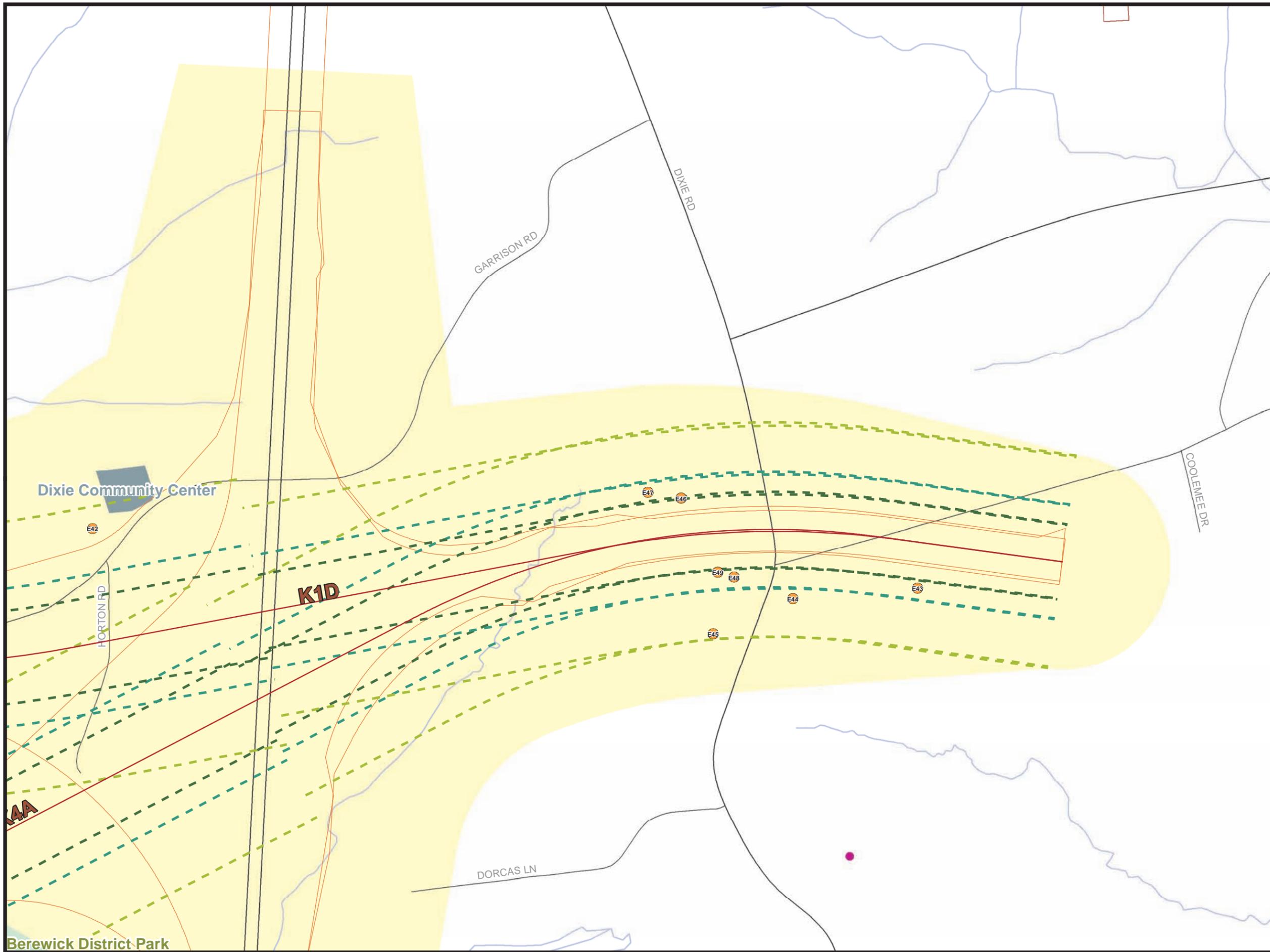
Gaston County and Mecklenburg County

**GASTON EAST-WEST CONNECTOR**

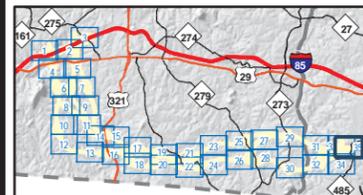
**2030 NOISE CONTOURS and SENSITIVE RECEPTOR LOCATIONS**

**Figure G-34**

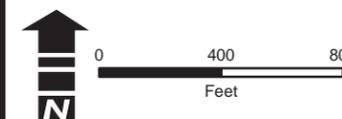
AppG\_2030NoiseContours&ReceptorsRev.mxd AKH 4.10.09



- Legend**
- Receptor Points
  - SegmentBreaks
  - Preliminary Road Design
  - - - 60 dBA Leq
  - - - 66 dBA Leq
  - - - 71 dBA Leq
  - Right of Way
  - 📖 Libraries
  - Churches
  - ▲ Cemeteries
  - 🎓 Schools
  - ▭ School Property
  - Streets
  - ≡ Railroad
  - Parcels
  - Parks
  - Private Recreation Facilities and Attractions
  - Hydrology
  - Detailed Study Area
  - K1A** Segment Name



Source: Gaston County and Mecklenburg County  
Map Printed April 2009.



STIP PROJECT  
NO. U-3321

Gaston County and  
Mecklenburg County

**GASTON EAST-WEST  
CONNECTOR**

**2030 NOISE CONTOURS  
and SENSITIVE  
RECEPTOR LOCATIONS**

**Figure G-35**