FIGURES

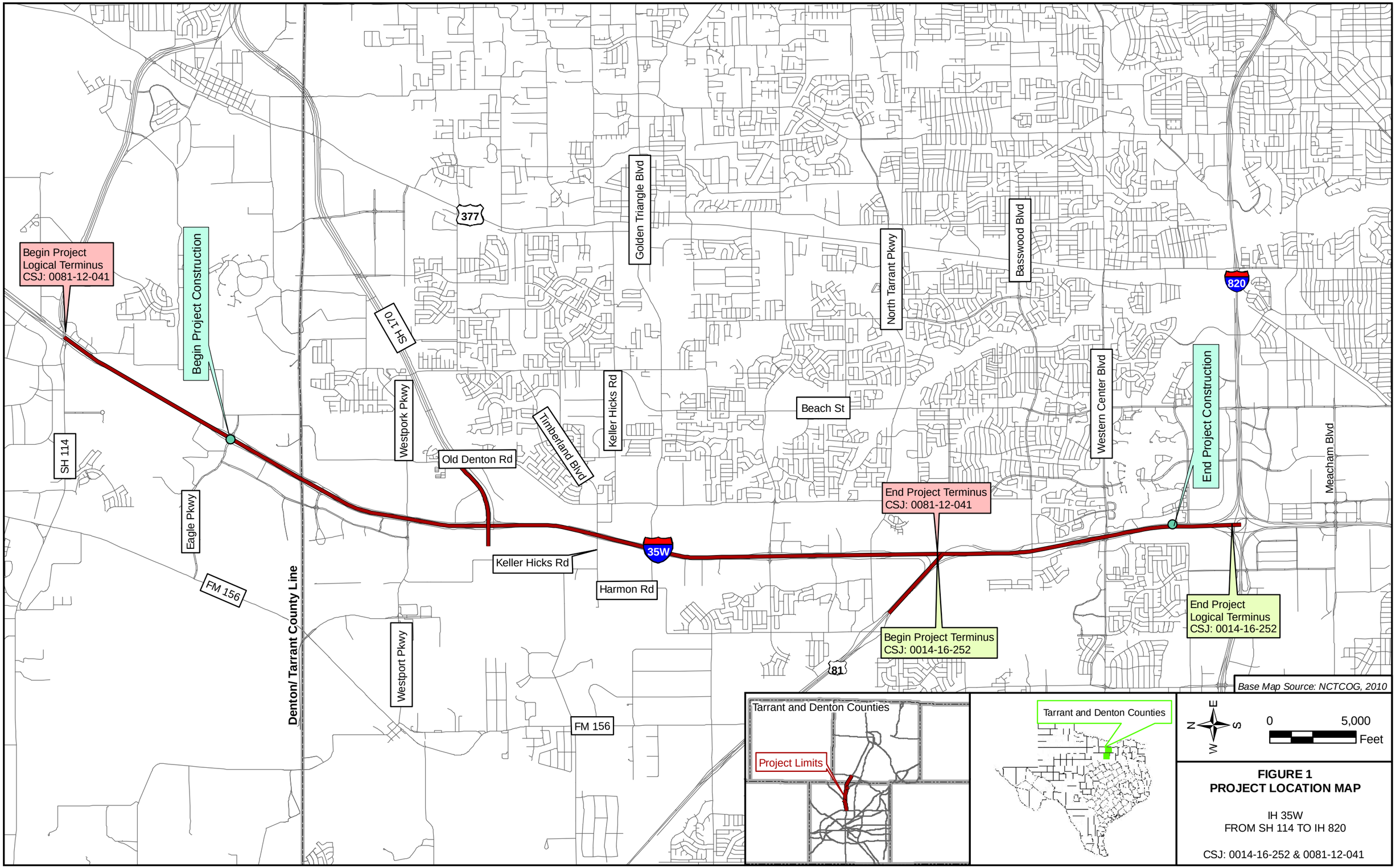
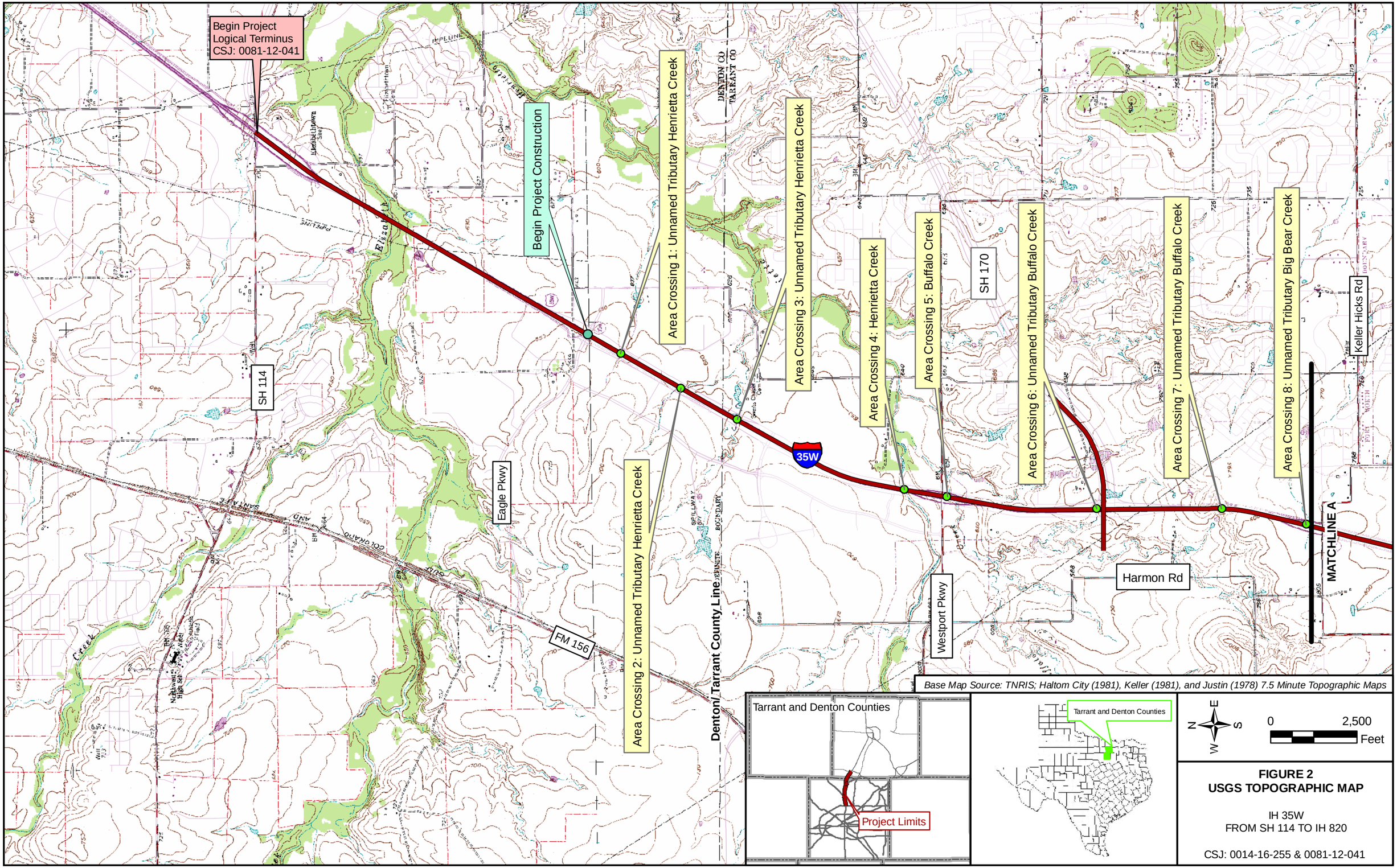


FIGURE 1
PROJECT LOCATION MAP

IH 35W
FROM SH 114 TO IH 820

CSJ: 0014-16-252 & 0081-12-041

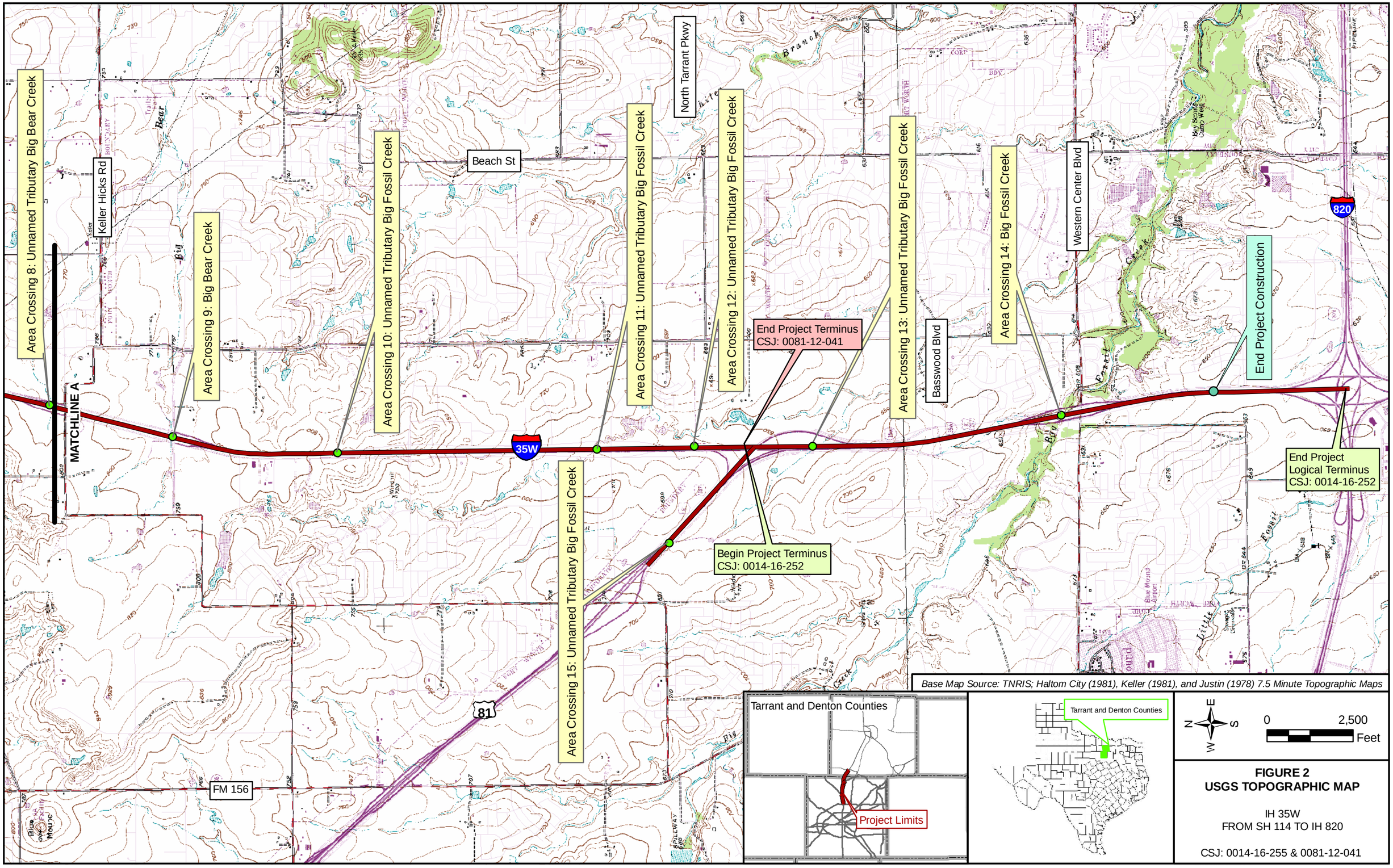


Base Map Source: TNRIS; Haltom City (1981), Keller (1981), and Justin (1978) 7.5 Minute Topographic Maps

FIGURE 2
USGS TOPOGRAPHIC MAP

IH 35W
FROM SH 114 TO IH 820

CSJ: 0014-16-255 & 0081-12-041



Base Map Source: TNRIS; Haltom City (1981), Keller (1981), and Justin (1978) 7.5 Minute Topographic Maps

FIGURE 2
USGS TOPOGRAPHIC MAP

IH 35W
FROM SH 114 TO IH 820

CSJ: 0014-16-255 & 0081-12-041

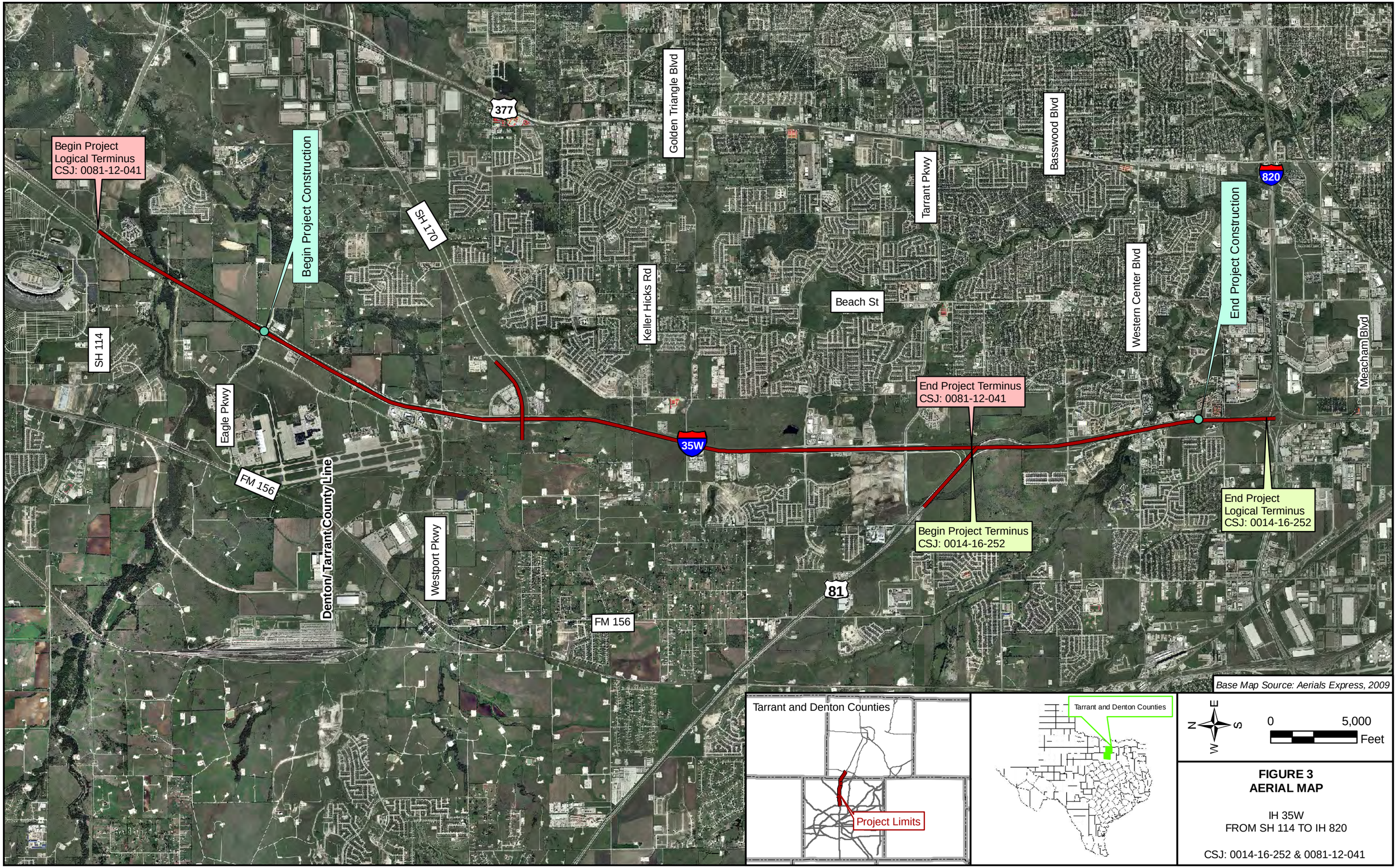


FIGURE 3
AERIAL MAP

IH 35W
FROM SH 114 TO IH 820

CSJ: 0014-16-252 & 0081-12-041

0 100 200 400
SCALE IN FEET

LEGEND

- EXISTING ROW
- PROPOSED ROW
- DRAINAGE EASEMENT
- ## POTENTIAL HAZARDOUS MATERIALS
- IMPACTED NOISE RECEIVERS
- NON-IMPACTED NOISE RECEIVERS
- DISPLACEMENTS
- DELINEATED WETLAND
- WATERS OF THE U.S.
- WOODED AREA
- RIPARIAN
- DATA SAMPLING POINT

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FIGURE 4
ENVIRONMENTAL RESOURCE MAP

IH 35W
FROM SH 114 TO IH 820

CSJs: 0014-16-252 AND 0081-12-041

SHEET 1 OF 31

0 100 200 400
SCALE IN FEET

LEGEND

- EXISTING ROW
- PROPOSED ROW
- DRAINAGE EASEMENT
- POTENTIAL HAZARDOUS MATERIALS
- IMPACTED NOISE RECEIVERS
- NON-IMPACTED NOISE RECEIVERS
- DISPLACEMENTS
- DELINEATED WETLAND
- WATERS OF THE U.S.
- WOODED AREA
- RIPARIAN
- DATA SAMPLING POINT

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FIGURE 4
ENVIRONMENTAL RESOURCE MAP

IH 35W
FROM SH 114 TO IH 820

CSJs: 0014-16-252 AND 0081-12-041

0 100 200 400
SCALE IN FEET

LEGEND

- EXISTING ROW
- PROPOSED ROW
- DRAINAGE EASEMENT
- ## POTENTIAL HAZARDOUS MATERIALS
- IMPACTED NOISE RECEIVERS
- NON-IMPACTED NOISE RECEIVERS
- DISPLACEMENTS
- DELINEATED WETLAND
- WATERS OF THE U.S.
- WOODED AREA
- RIPARIAN
- DATA SAMPLING POINT

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FIGURE 4
ENVIRONMENTAL RESOURCE MAP

IH 35W
FROM SH 114 TO IH 820

CSJs: 0014-16-252 AND 0081-12-041

SHEET 3 OF 31

0 100 200 400
SCALE IN FEET

LEGEND

- EXISTING ROW
- PROPOSED ROW
- DRAINAGE EASEMENT
- ## POTENTIAL HAZARDOUS MATERIALS
- IMPACTED NOISE RECEIVERS
- NON-IMPACTED NOISE RECEIVERS
- DISPLACEMENTS
- DELINEATED WETLAND
- WATERS OF THE U.S.
- WOODED AREA
- RIPARIAN
- DATA SAMPLING POINT

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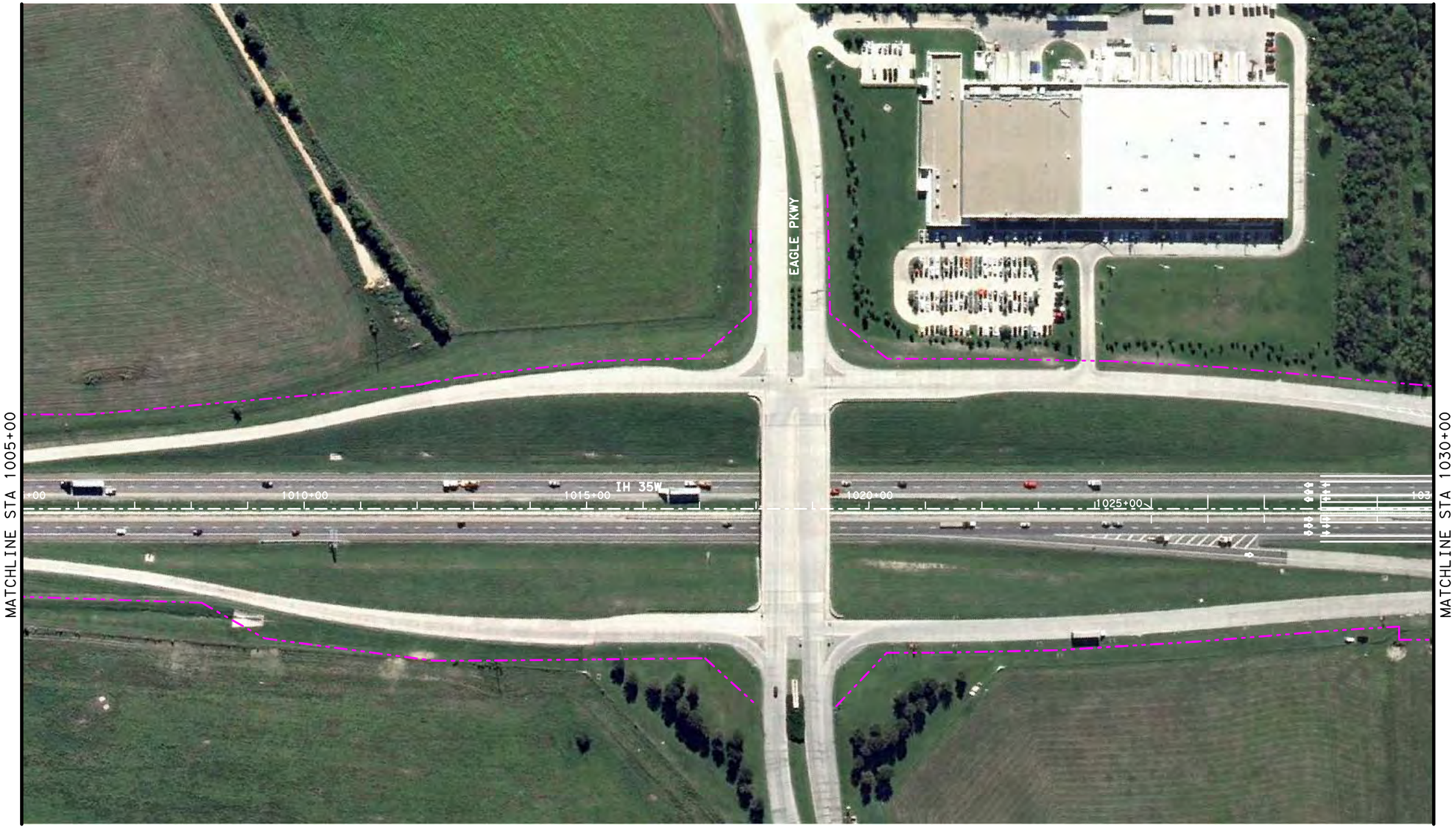
FIGURE 4
ENVIRONMENTAL RESOURCE MAP

IH 35W
FROM SH 114 TO IH 820

CSJs: 0014-16-252 AND 0081-12-041

SHEET 4 OF 31

0 100 200 400
SCALE IN FEET



LEGEND

- EXISTING ROW
- PROPOSED ROW
- DRAINAGE EASEMENT
- POTENTIAL HAZARDOUS MATERIALS
- IMPACTED NOISE RECEIVERS
- NON-IMPACTED NOISE RECEIVERS
- DISPLACEMENTS
- DELINEATED WETLAND
- WATERS OF THE U.S.
- WOODED AREA
- RIPARIAN
- DATA SAMPLING POINT

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FIGURE 4
ENVIRONMENTAL RESOURCE MAP

IH 35W
FROM SH 114 TO IH 820

CSJs: 0014-16-252 AND 0081-12-041

0 100 200 400
SCALE IN FEET

LEGEND

- EXISTING ROW
- PROPOSED ROW
- DRAINAGE EASEMENT
- ## POTENTIAL HAZARDOUS MATERIALS
- IMPACTED NOISE RECEIVERS
- NON-IMPACTED NOISE RECEIVERS
- DISPLACEMENTS
- DELINEATED WETLAND
- WATERS OF THE U.S.
- WOODED AREA
- RIPARIAN
- DATA SAMPLING POINT

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FIGURE 4
ENVIRONMENTAL RESOURCE MAP

IH 35W
FROM SH 114 TO IH 820

CSJs: 0014-16-252 AND 0081-12-041

0 100 200 400
SCALE IN FEET

LEGEND

- EXISTING ROW
- PROPOSED ROW
- DRAINAGE EASEMENT
- ## POTENTIAL HAZARDOUS MATERIALS
- IMPACTED NOISE RECEIVERS
- NON-IMPACTED NOISE RECEIVERS
- DISPLACEMENTS
- DELINEATED WETLAND
- WATERS OF THE U.S.
- WOODED AREA
- RIPARIAN
- DATA SAMPLING POINT

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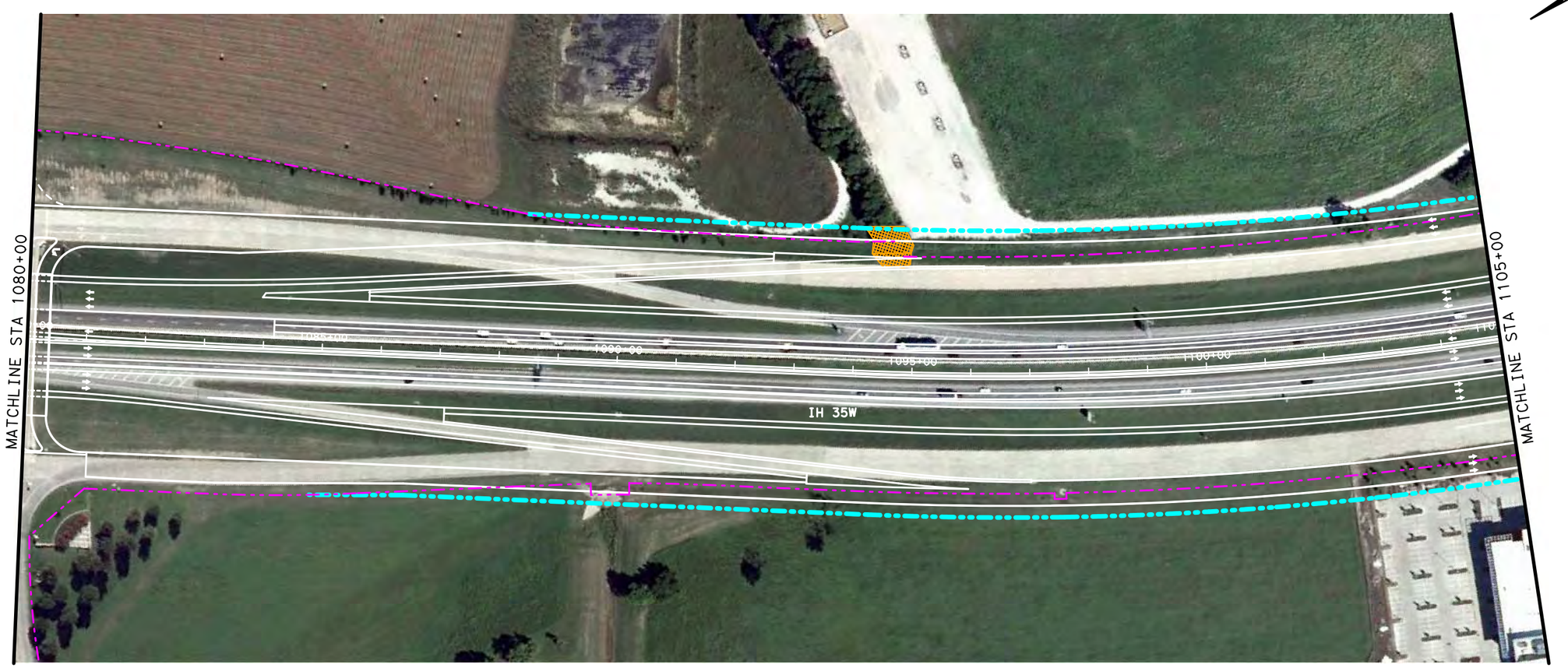
FIGURE 4
ENVIRONMENTAL RESOURCE MAP

IH 35W
FROM SH 114 TO IH 820

CSJs: 0014-16-252 AND 0081-12-041

SHEET 7 OF 31

0 100 200 400
SCALE IN FEET



LEGEND

- EXISTING ROW
- PROPOSED ROW
- DRAINAGE EASEMENT
- ## POTENTIAL HAZARDOUS MATERIALS
- IMPACTED NOISE RECEIVERS
- NON-IMPACTED NOISE RECEIVERS
- DISPLACEMENTS
- DELINEATED WETLAND
- WATERS OF THE U.S.
- WOODED AREA
- RIPARIAN
- DATA SAMPLING POINT

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FIGURE 4
ENVIRONMENTTAL RESOURCE MAP

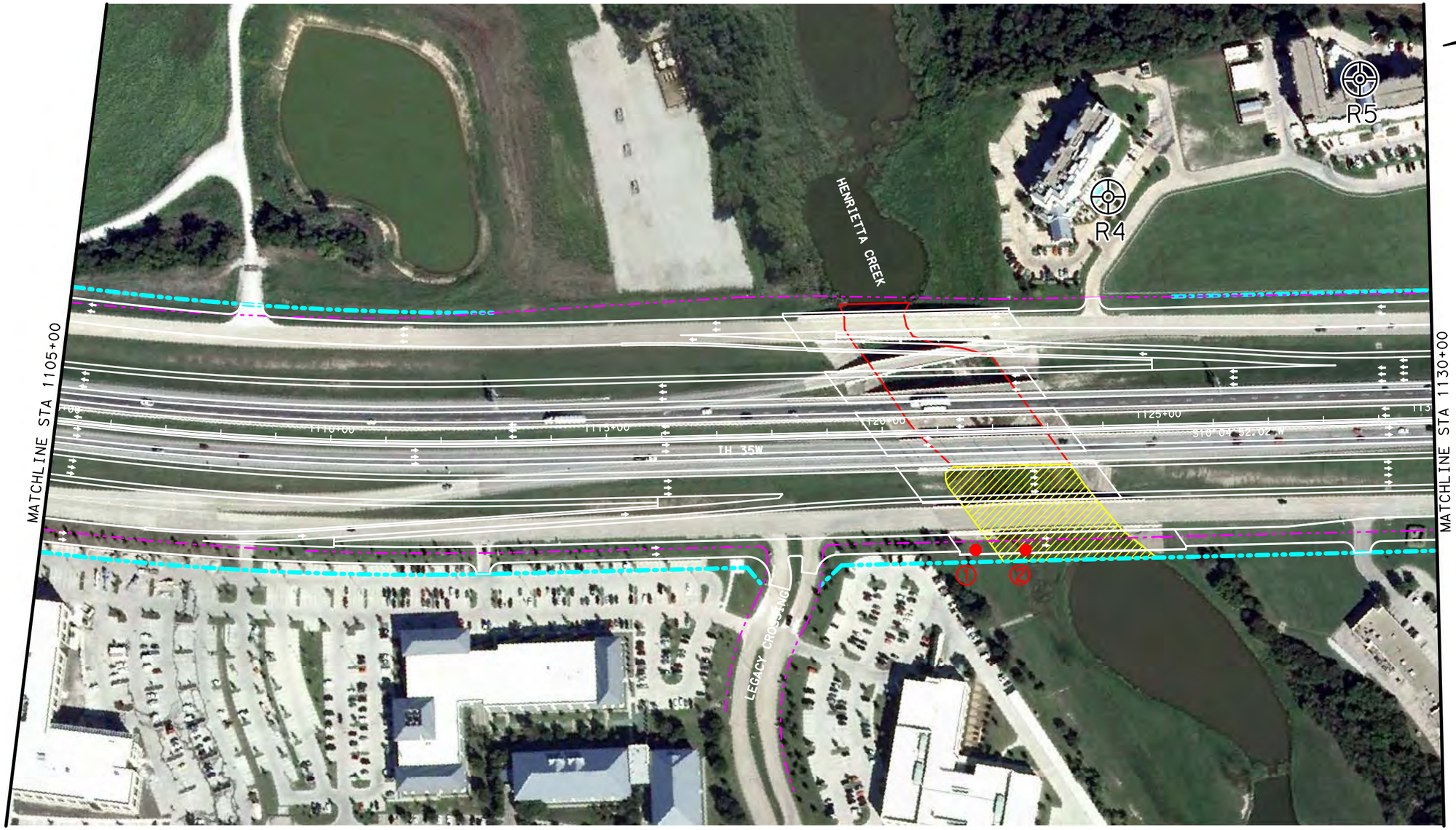
IH 35W
FROM SH 114 TO IH 820

CSJs: 0014-16-252 AND 0081-12-041

SHEET 8 OF 31

0 100 200 400
SCALE IN FEET

N



LEGEND

- EXISTING ROW
- PROPOSED ROW
- DRAINAGE EASEMENT
- ## POTENTIAL HAZARDOUS MATERIALS
- IMPACTED NOISE RECEIVERS
- NON-IMPACTED NOISE RECEIVERS
- DISPLACEMENTS
- DELINEATED WETLAND
- WATERS OF THE U.S.
- WOODED AREA
- RIPARIAN
- DATA SAMPLING POINT

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FIGURE 4
ENVIRONMENTAL RESOURCE MAP

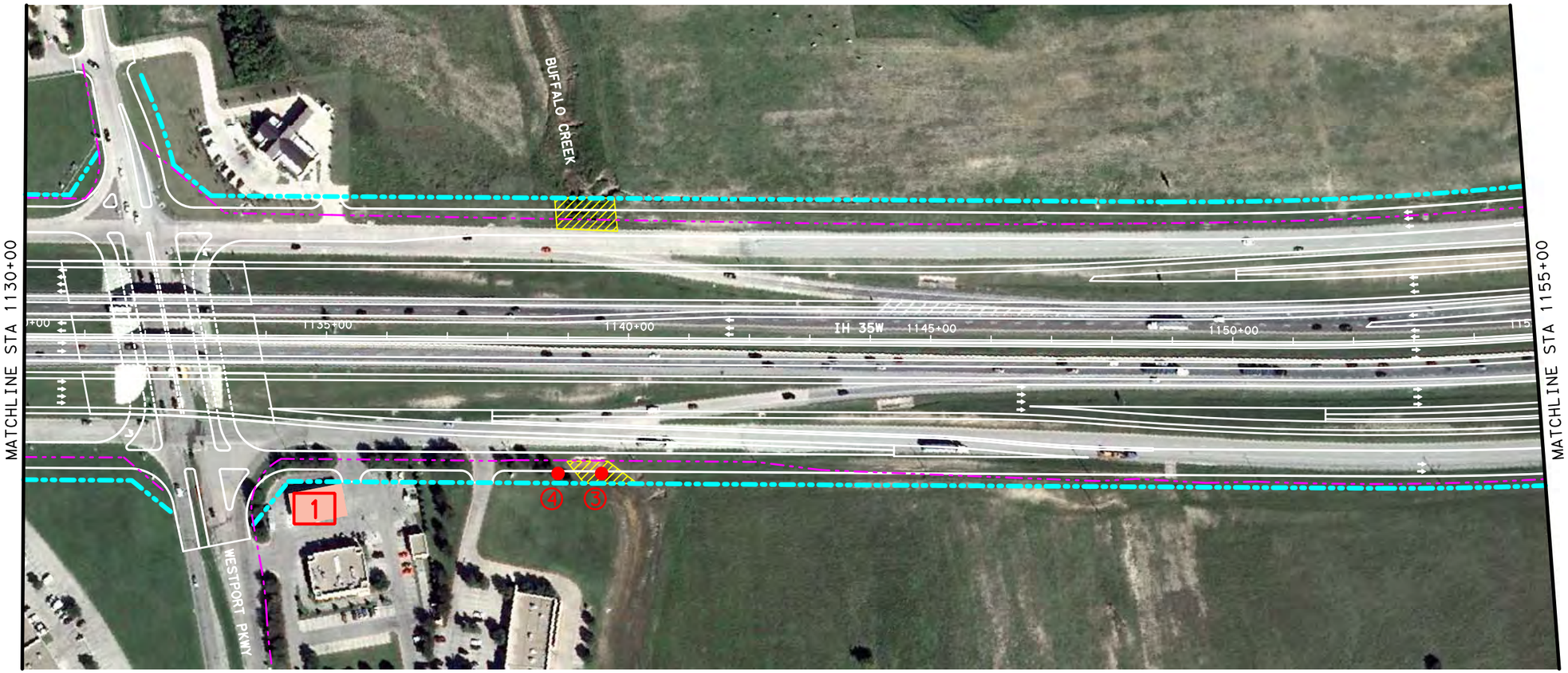
IH 35W
FROM SH 114 TO IH 820

CSJs: 0014-16-252 AND 0081-12-041

SHEET 9 OF 31

0 100 200 400
SCALE IN FEET

N



LEGEND

- EXISTING ROW
- PROPOSED ROW
- DRAINAGE EASEMENT
- ## POTENTIAL HAZARDOUS MATERIALS
- IMPACTED NOISE RECEIVERS
- NON-IMPACTED NOISE RECEIVERS
- DISPLACEMENTS
- DELINEATED WETLAND
- WATERS OF THE U.S.
- WOODED AREA
- RIPARIAN
- DATA SAMPLING POINT

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FIGURE 4
ENVIRONMENTAL RESOURCE MAP

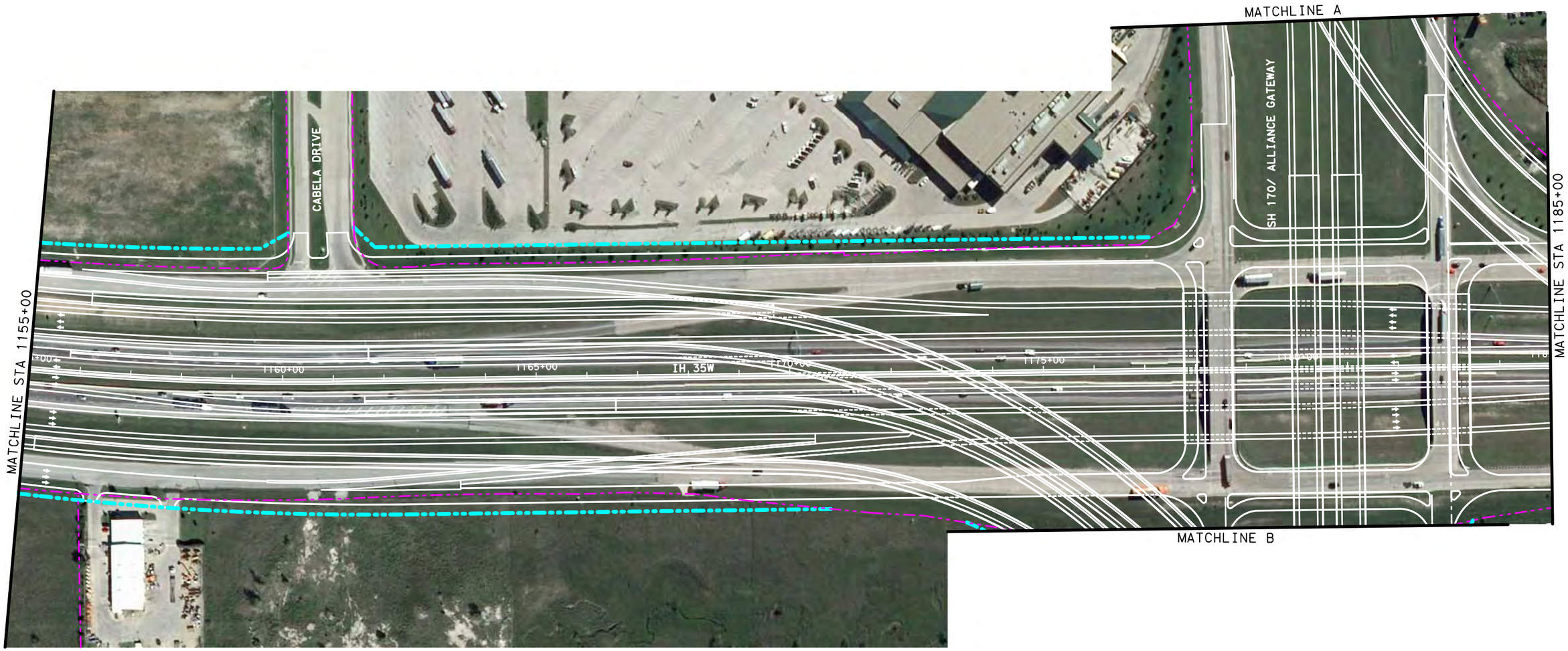
IH 35W
FROM SH 114 TO IH 820

CSJs: 0014-16-252 AND 0081-12-041

SHEET 10 OF 31

0 100 200 400
SCALE IN FEET

N



LEGEND

- EXISTING ROW
- PROPOSED ROW
- DRAINAGE EASEMENT
- ## POTENTIAL HAZARDOUS MATERIALS
- IMPACTED NOISE RECEIVERS
- NON-IMPACTED NOISE RECEIVERS
- DISPLACEMENTS
- DELINEATED WETLAND
- WATERS OF THE U.S.
- WOODED AREA
- RIPARIAN
- DATA SAMPLING POINT

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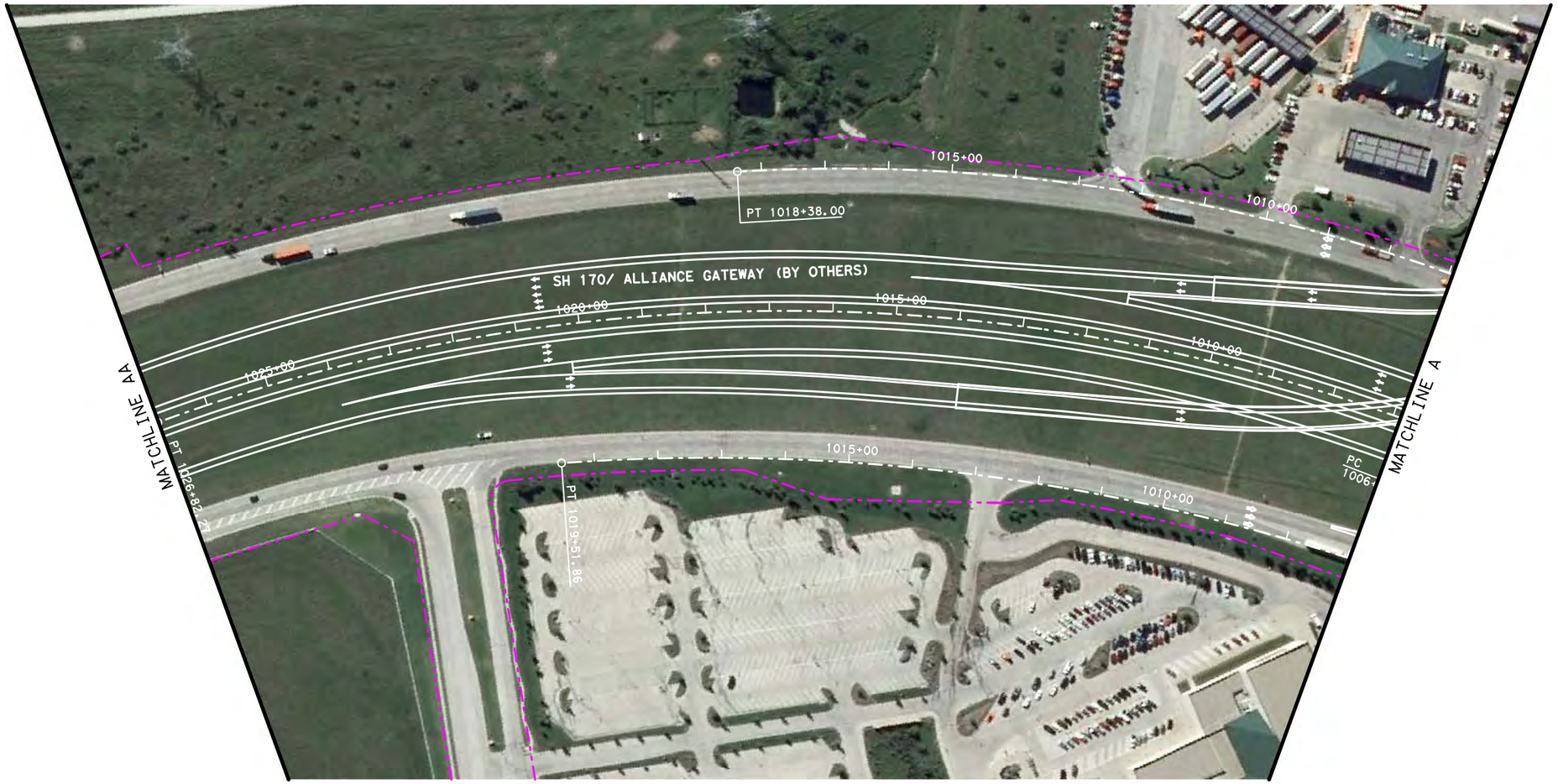
FIGURE 4
ENVIRONMENTAL RESOURCE MAP

IH 35W
FROM SH 114 TO IH 820

CSJs: 0014-16-252 AND 0081-12-041

SHEET 11 OF 31

0 100 200 400
SCALE IN FEET



LEGEND

- EXISTING ROW
- PROPOSED ROW
- DRAINAGE EASEMENT
- ## POTENTIAL HAZARDOUS MATERIALS
- IMPACTED NOISE RECEIVERS
- NON-IMPACTED NOISE RECEIVERS
- DISPLACEMENTS
- DELINEATED WETLAND
- WATERS OF THE U.S.
- WOODED AREA
- RIPARIAN
- DATA SAMPLING POINT

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FIGURE 4
ENVIRONMENTAL RESOURCE MAP

IH 35W
FROM SH 114 TO IH 820

CSJs: 0014-16-252 AND 0081-12-041

SHEET 12 OF 31

0 100 200 400
SCALE IN FEET

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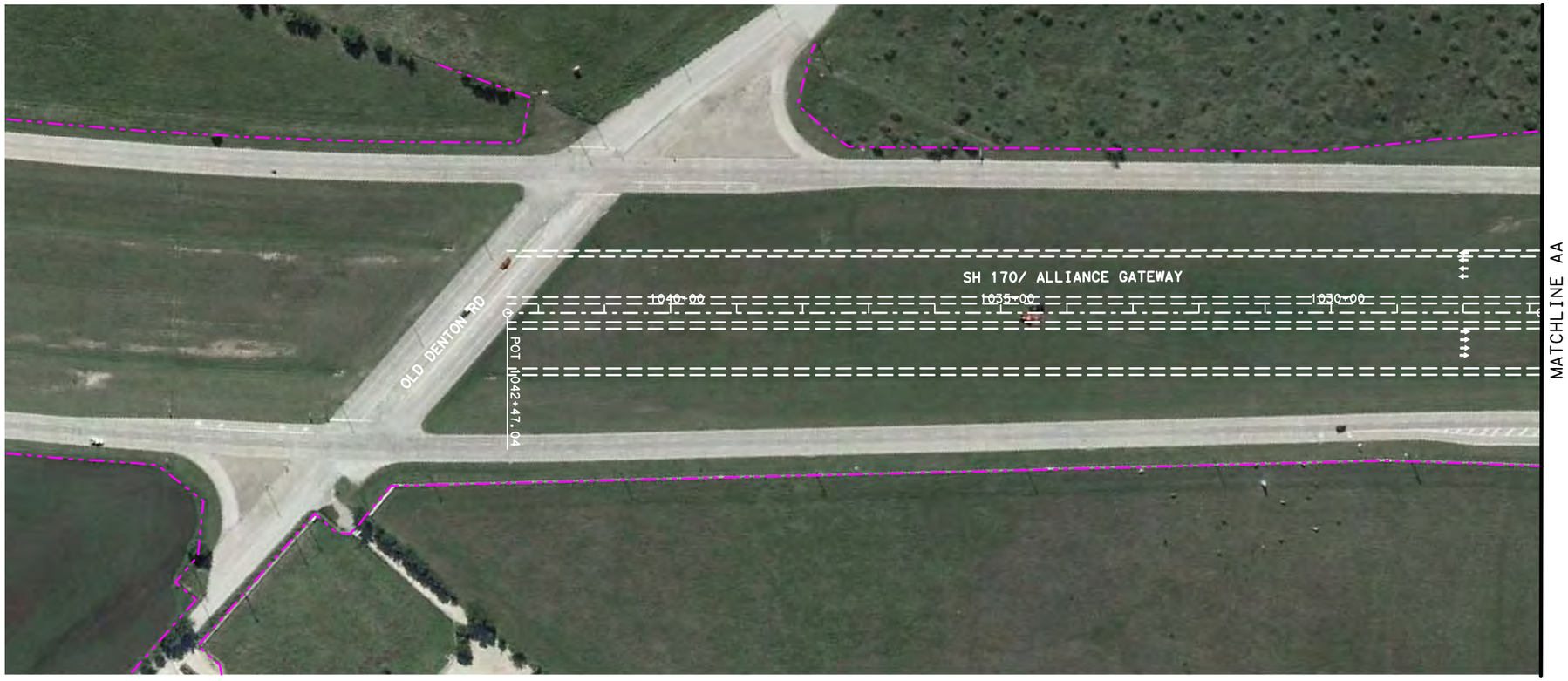

LEGEND

- EXISTING ROW
- PROPOSED ROW
- DRAINAGE EASEMENT
- ## POTENTIAL HAZARDOUS MATERIALS
- IMPACTED NOISE RECEIVERS
- NON-IMPACTED NOISE RECEIVERS
- DISPLACEMENTS
- DELINEATED WETLAND
- WATERS OF THE U.S.
- WOODED AREA
- RIPARIAN
- DATA SAMPLING POINT

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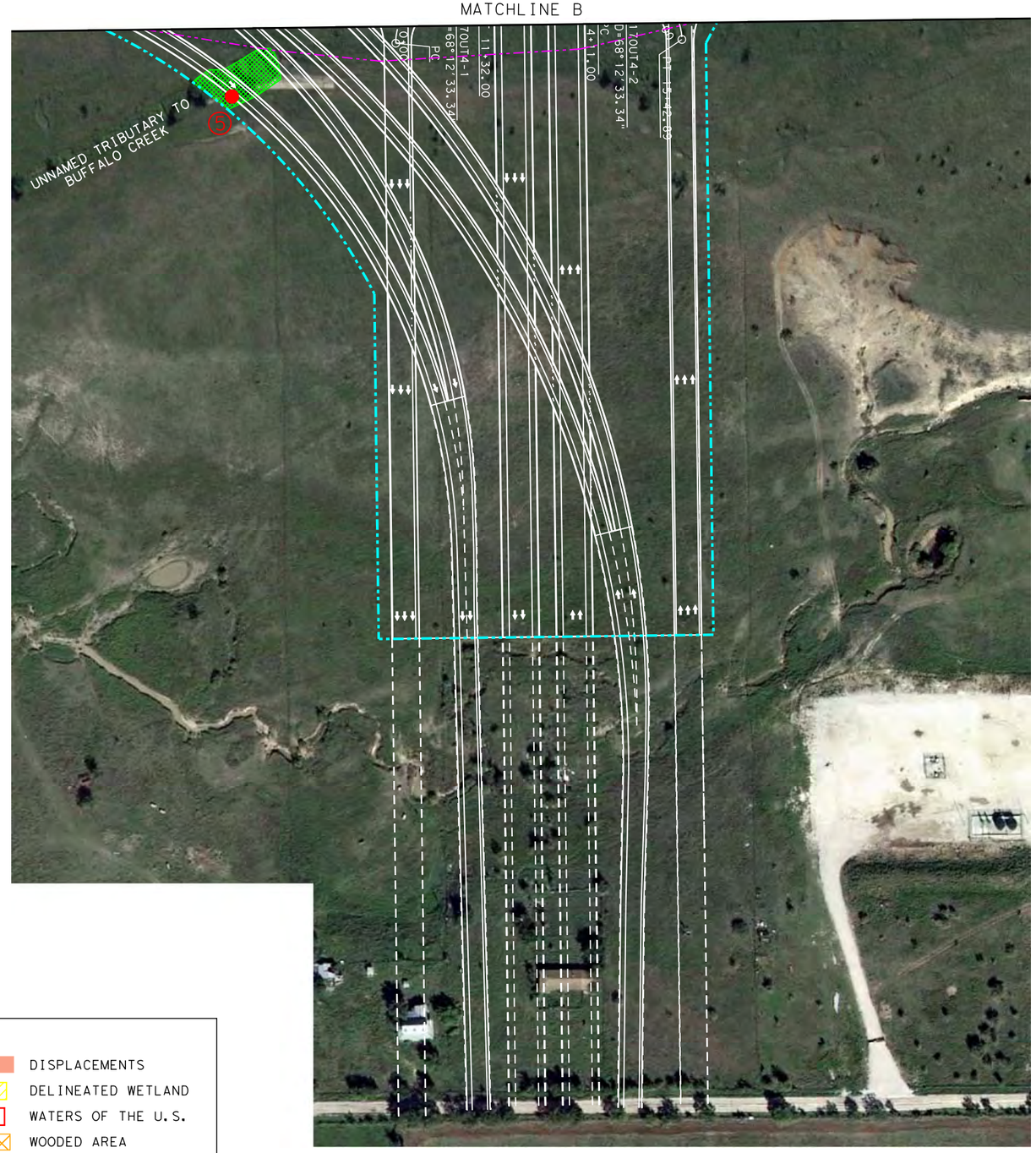
FIGURE 4
ENVIRONMENTAL RESOURCE MAP

IH 35W
FROM SH 114 TO IH 820

CSJs: 0014-16-252 AND 0081-12-041

0 100 200 400
SCALE IN FEET

MATCHLINE B



LEGEND

- EXISTING ROW
- PROPOSED ROW
- DRAINAGE EASEMENT
- POTENTIAL HAZARDOUS MATERIALS
- IMPACTED NOISE RECEIVERS
- NON-IMPACTED NOISE RECEIVERS
- DISPLACEMENTS
- DELINEATED WETLAND
- WATERS OF THE U.S.
- WOODED AREA
- RIPARIAN
- DATA SAMPLING POINT

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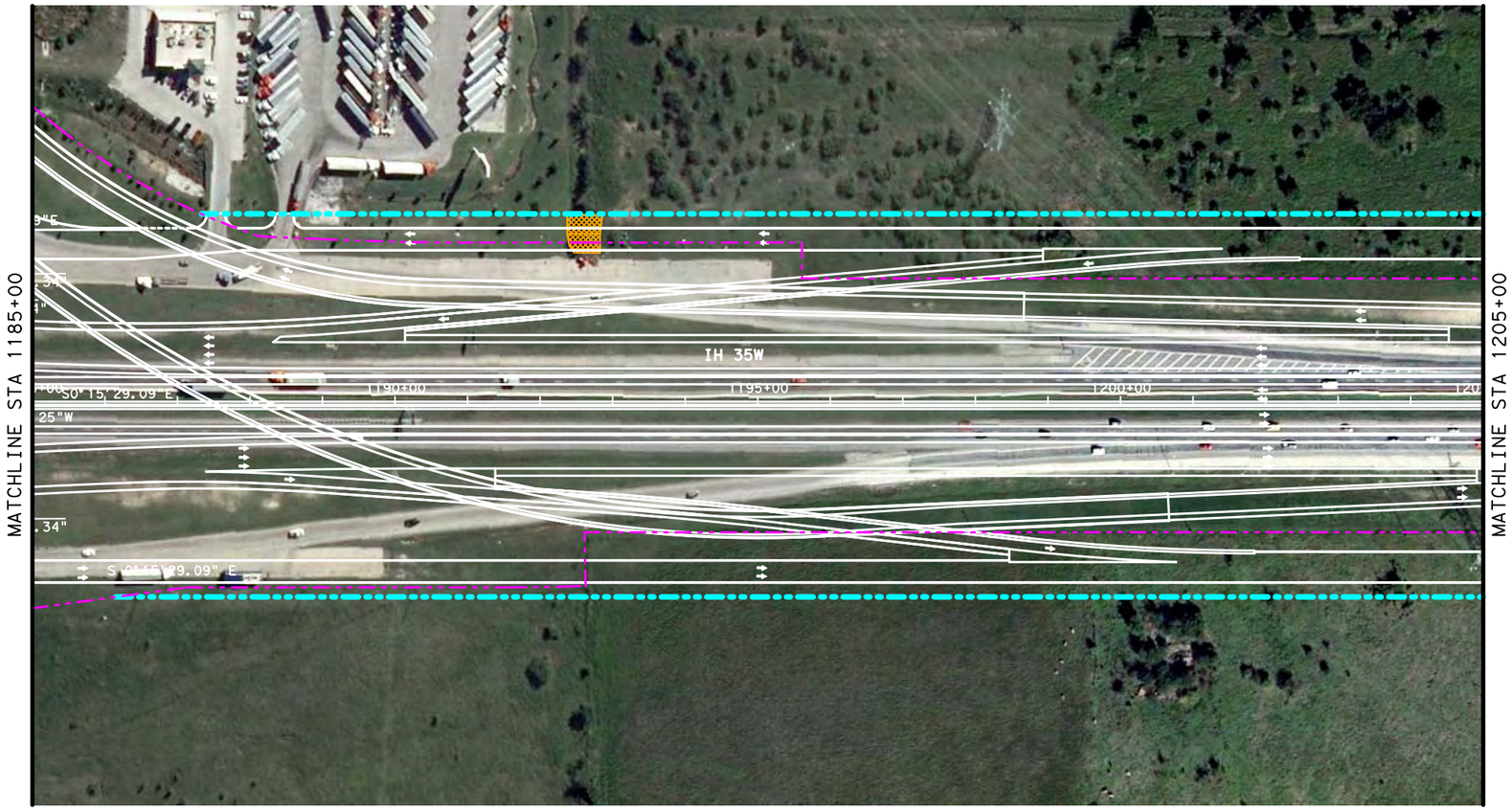
FIGURE 4
ENVIRONMENTAL RESOURCE MAP

IH 35W
FROM SH 114 TO IH 820

CSJs: 0014-16-252 AND 0081-12-041

SHEET 14 OF 31

0 100 200 400
SCALE IN FEET



LEGEND

- EXISTING ROW
- PROPOSED ROW
- DRAINAGE EASEMENT
- ## POTENTIAL HAZARDOUS MATERIALS
- IMPACTED NOISE RECEIVERS
- NON-IMPACTED NOISE RECEIVERS
- DISPLACEMENTS
- DELINEATED WETLAND
- WATERS OF THE U.S.
- WOODED AREA
- RIPARIAN
- DATA SAMPLING POINT

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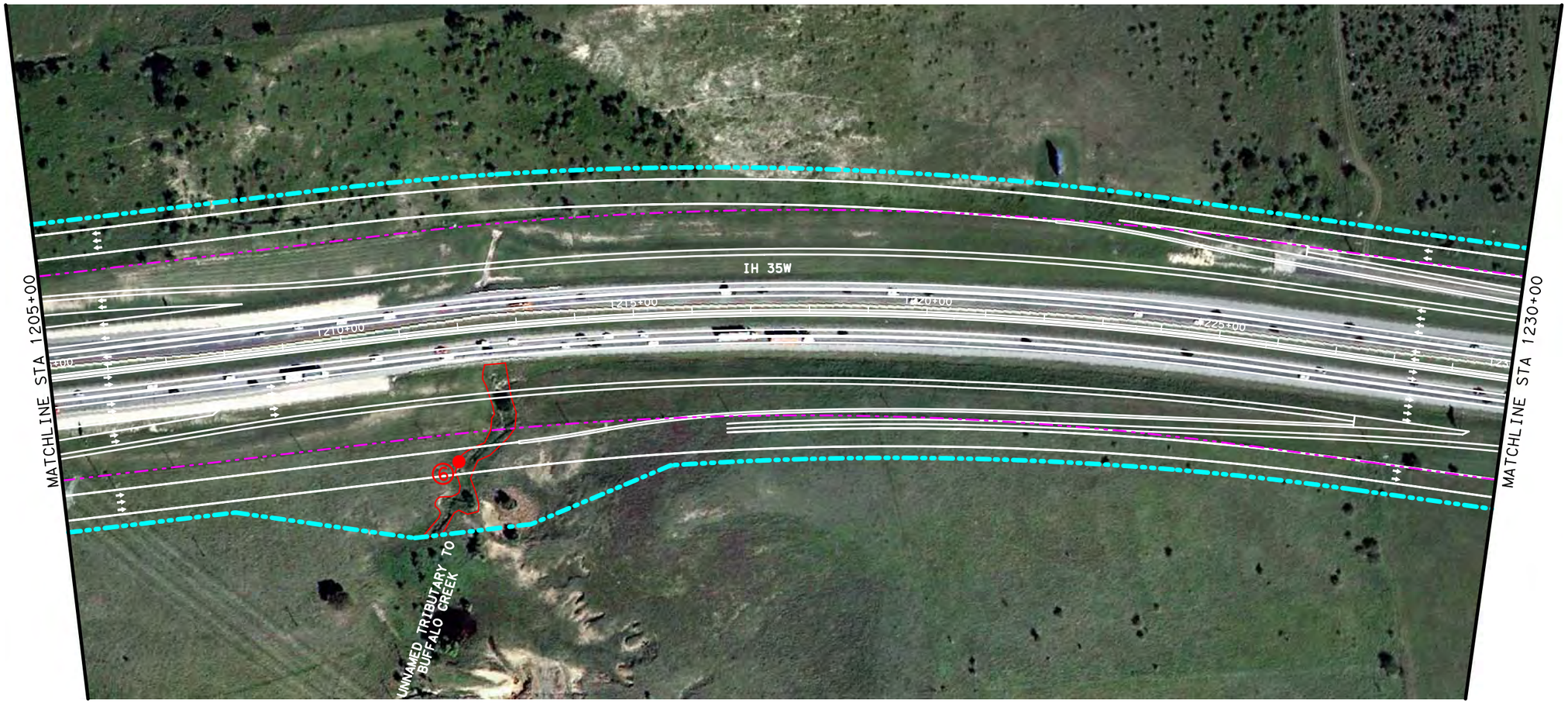
FIGURE 4
ENVIRONMENTAL RESOURCE MAP

IH 35W
FROM SH 114 TO IH 820

CSJs: 0014-16-252 AND 0081-12-041

0 100 200 400
SCALE IN FEET

N



LEGEND

- EXISTING ROW
- PROPOSED ROW
- DRAINAGE EASEMENT
- ## POTENTIAL HAZARDOUS MATERIALS
- IMPACTED NOISE RECEIVERS
- NON-IMPACTED NOISE RECEIVERS
- DISPLACEMENTS
- DELINEATED WETLAND
- WATERS OF THE U.S.
- WOODED AREA
- RIPARIAN
- DATA SAMPLING POINT

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FIGURE 4
ENVIRONMENTAL RESOURCE MAP

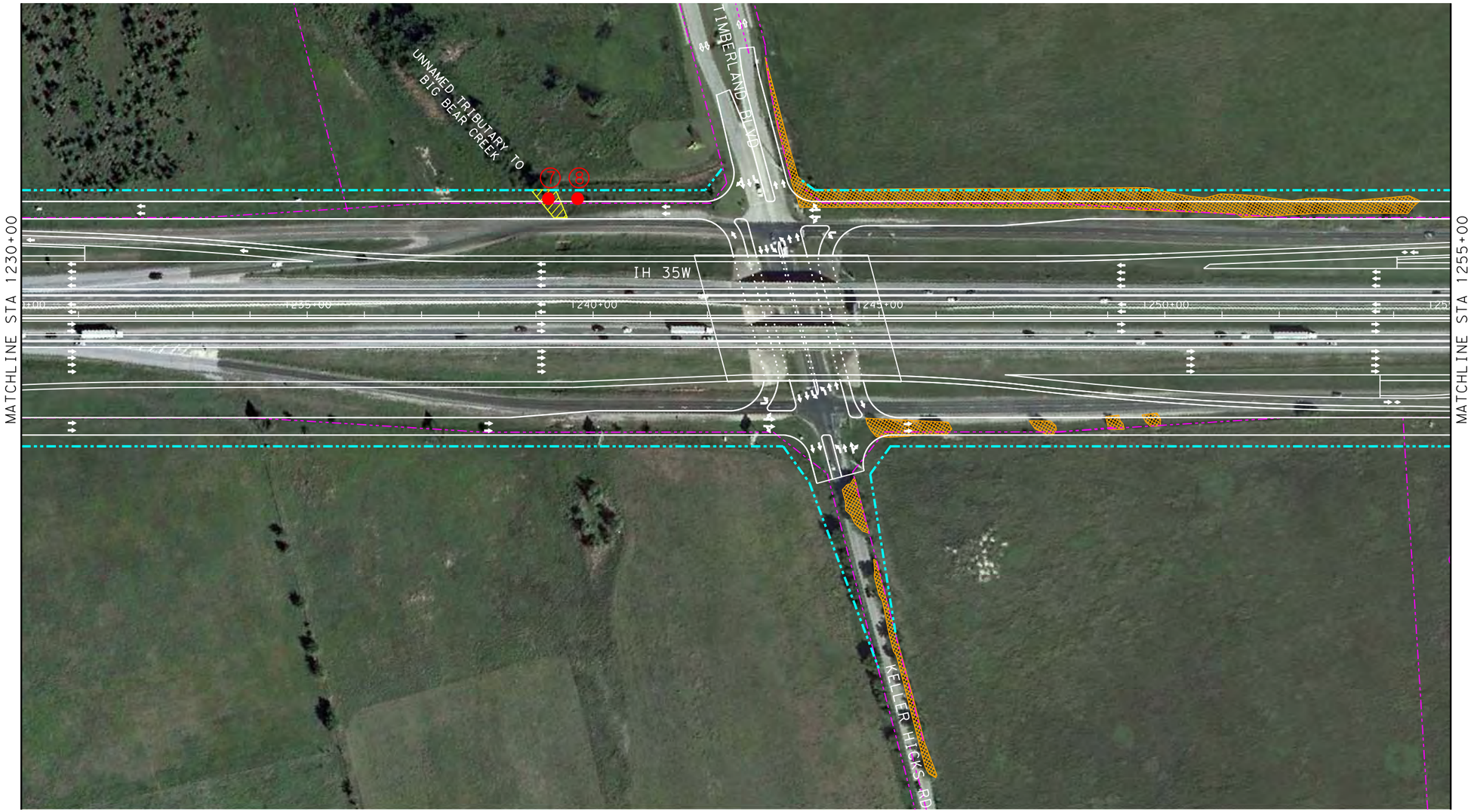
IH 35W
FROM SH 114 TO IH 820

CSJs: 0014-16-252 AND 0081-12-041

SHEET 16 OF 31

0 100 200 400
SCALE IN FEET

N



LEGEND

- EXISTING ROW
- PROPOSED ROW
- DRAINAGE EASEMENT
- POTENTIAL HAZARDOUS MATERIALS
- IMPACTED NOISE RECEIVERS
- NON-IMPACTED NOISE RECEIVERS
- DISPLACEMENTS
- DELINEATED WETLAND
- WATERS OF THE U.S.
- WOODED AREA
- RIPARIAN
- DATA SAMPLING POINT

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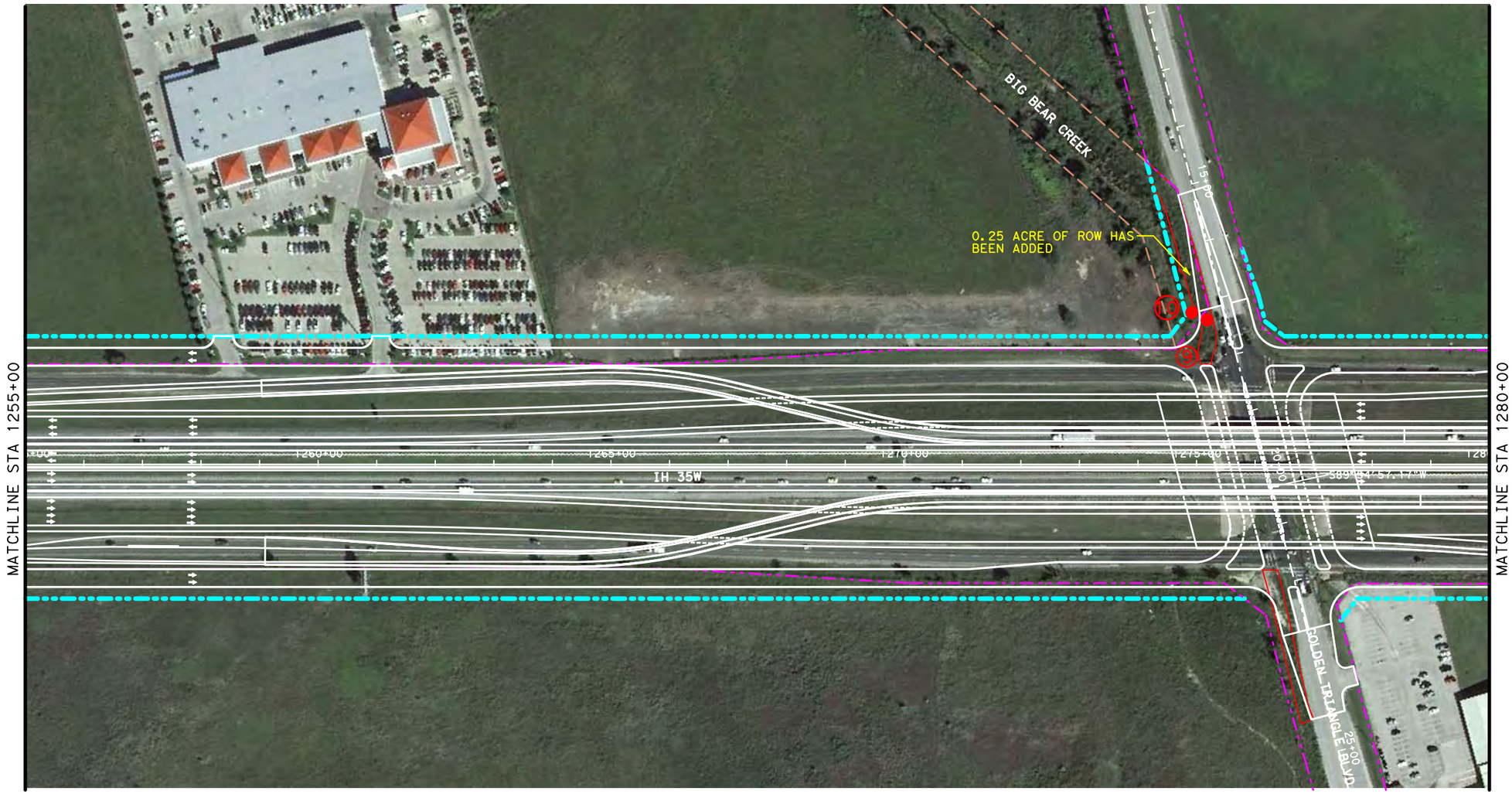
FIGURE 4
ENVIRONMENTAL RESOURCE MAP

IH 35W
FROM SH 114 TO IH 820

CSJs: 0014-16-252 AND 0081-12-041

SHEET 17 OF 31

0 100 200 400
SCALE IN FEET



LEGEND

- EXISTING ROW
- PROPOSED ROW
- DRAINAGE EASEMENT
- ## POTENTIAL HAZARDOUS MATERIALS
- IMPACTED NOISE RECEIVERS
- NON-IMPACTED NOISE RECEIVERS
- DISPLACEMENTS
- DELINEATED WETLAND
- WATERS OF THE U.S.
- WOODED AREA
- RIPARIAN
- DATA SAMPLING POINT

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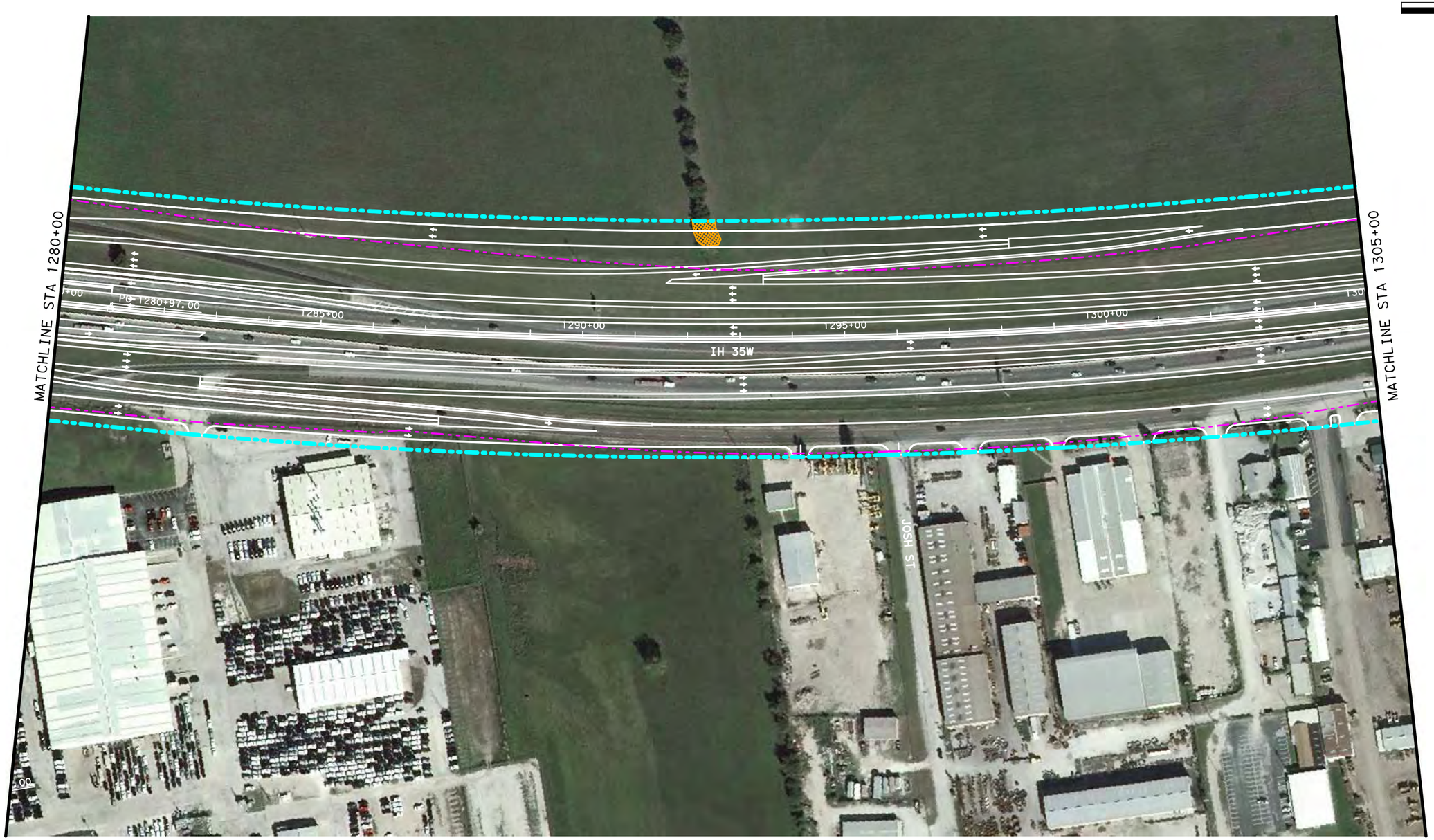
FIGURE 4
ENVIRONMENTAL RESOURCE MAP

IH 35W
FROM SH 114 TO IH 820

CSJs: 0014-16-252 AND 0081-12-041

SHEET 18 OF 31



0 100 200 400
SCALE IN FEET

N

LEGEND

- EXISTING ROW
- PROPOSED ROW
- DRAINAGE EASEMENT
- POTENTIAL HAZARDOUS MATERIALS
- IMPACTED NOISE RECEIVERS
- NON-IMPACTED NOISE RECEIVERS
- DISPLACEMENTS
- DELINEATED WETLAND
- WATERS OF THE U.S.
- WOODED AREA
- RIPARIAN
- DATA SAMPLING POINT

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FIGURE 4
ENVIRONMENTAL RESOURCE MAP

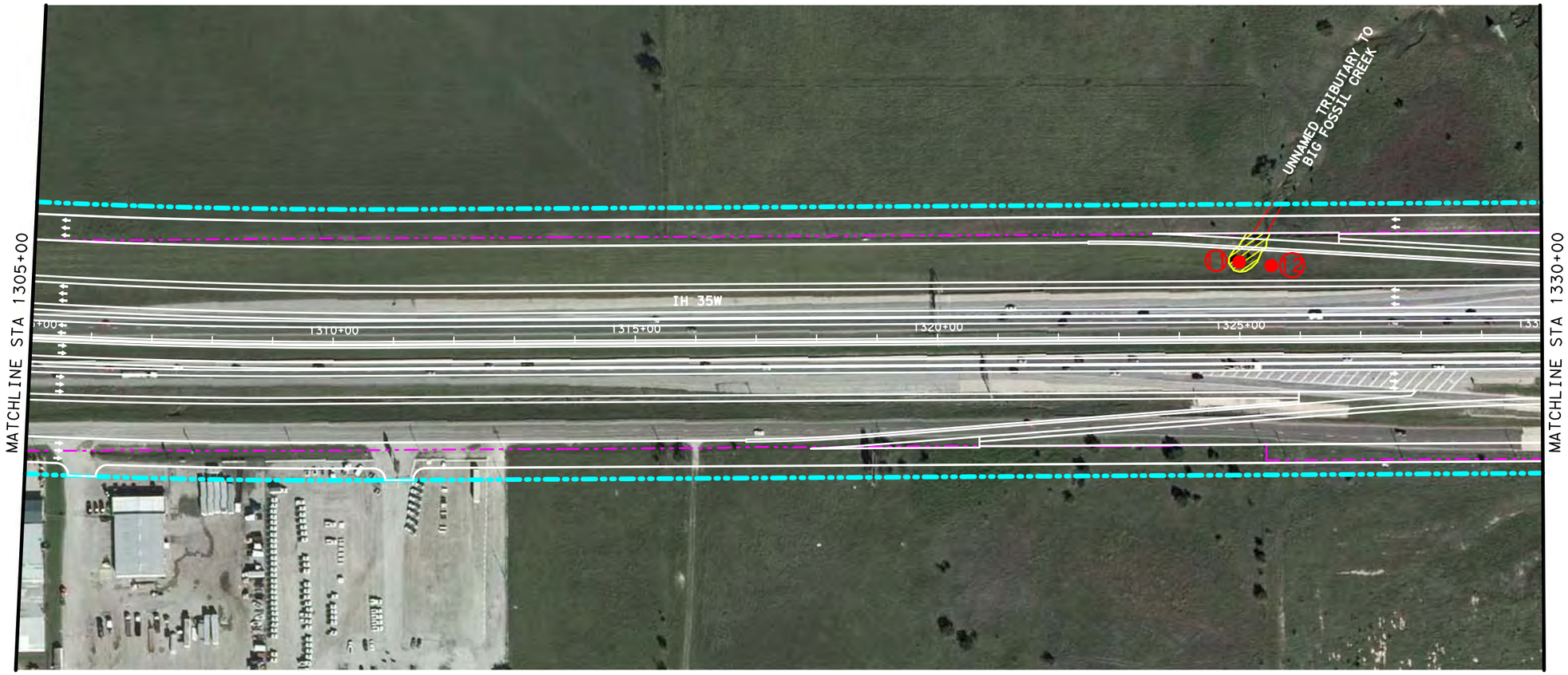
IH 35W
FROM SH 114 TO IH 820

CSJs: 0014-16-252 AND 0081-12-041

SHEET 19 OF 31

0 100 200 400
SCALE IN FEET

N



LEGEND

- EXISTING ROW
- PROPOSED ROW
- DRAINAGE EASEMENT
- ## POTENTIAL HAZARDOUS MATERIALS
- IMPACTED NOISE RECEIVERS
- NON-IMPACTED NOISE RECEIVERS
- DISPLACEMENTS
- DELINEATED WETLAND
- WATERS OF THE U.S.
- WOODED AREA
- RIPARIAN
- DATA SAMPLING POINT

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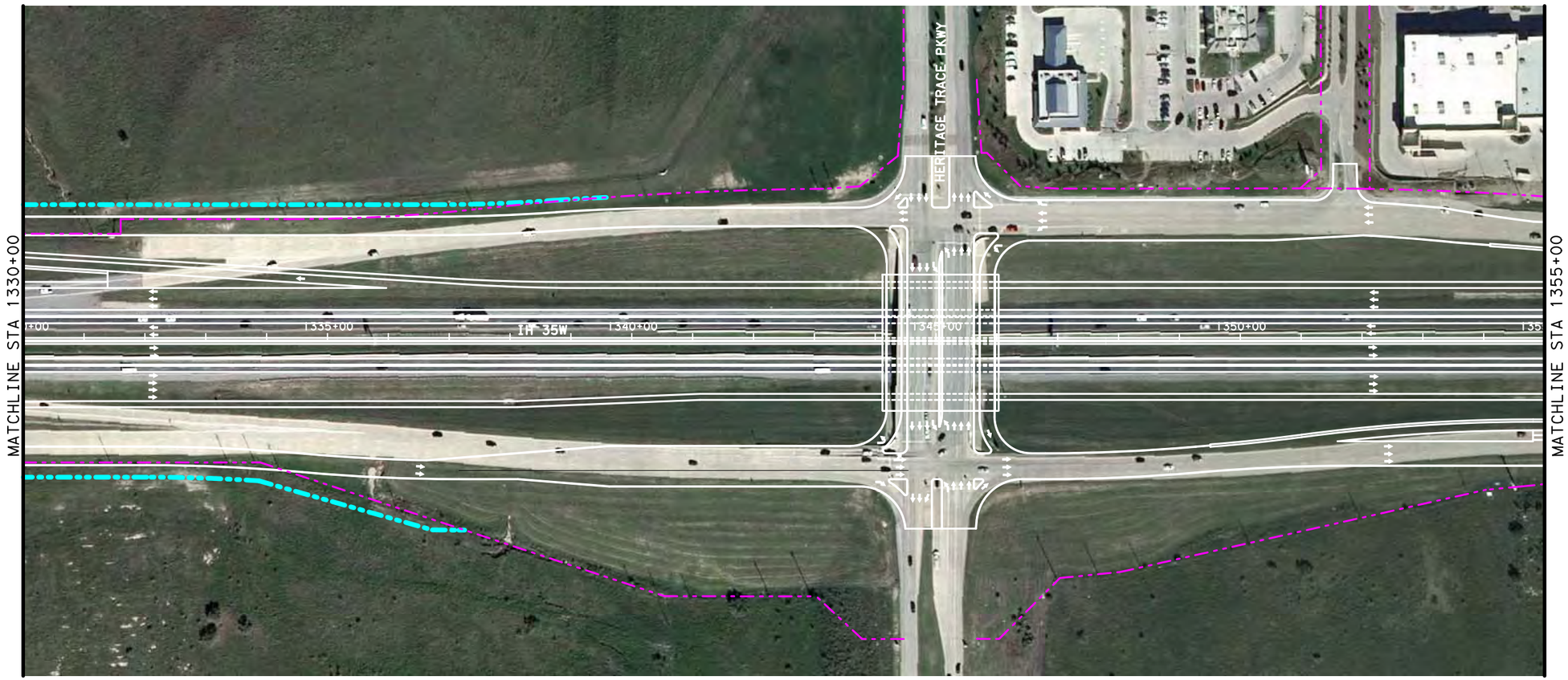
FIGURE 4
ENVIRONMENTAL RESOURCE MAP

IH 35W
FROM SH 114 TO IH 820

CSJs: 0014-16-252 AND 0081-12-041

SHEET 20 OF 31

0 100 200 400
SCALE IN FEET



LEGEND

- EXISTING ROW
- PROPOSED ROW
- DRAINAGE EASEMENT
- POTENTIAL HAZARDOUS MATERIALS
- IMPACTED NOISE RECEIVERS
- NON-IMPACTED NOISE RECEIVERS
- DISPLACEMENTS
- DELINEATED WETLAND
- WATERS OF THE U.S.
- WOODED AREA
- RIPARIAN
- DATA SAMPLING POINT

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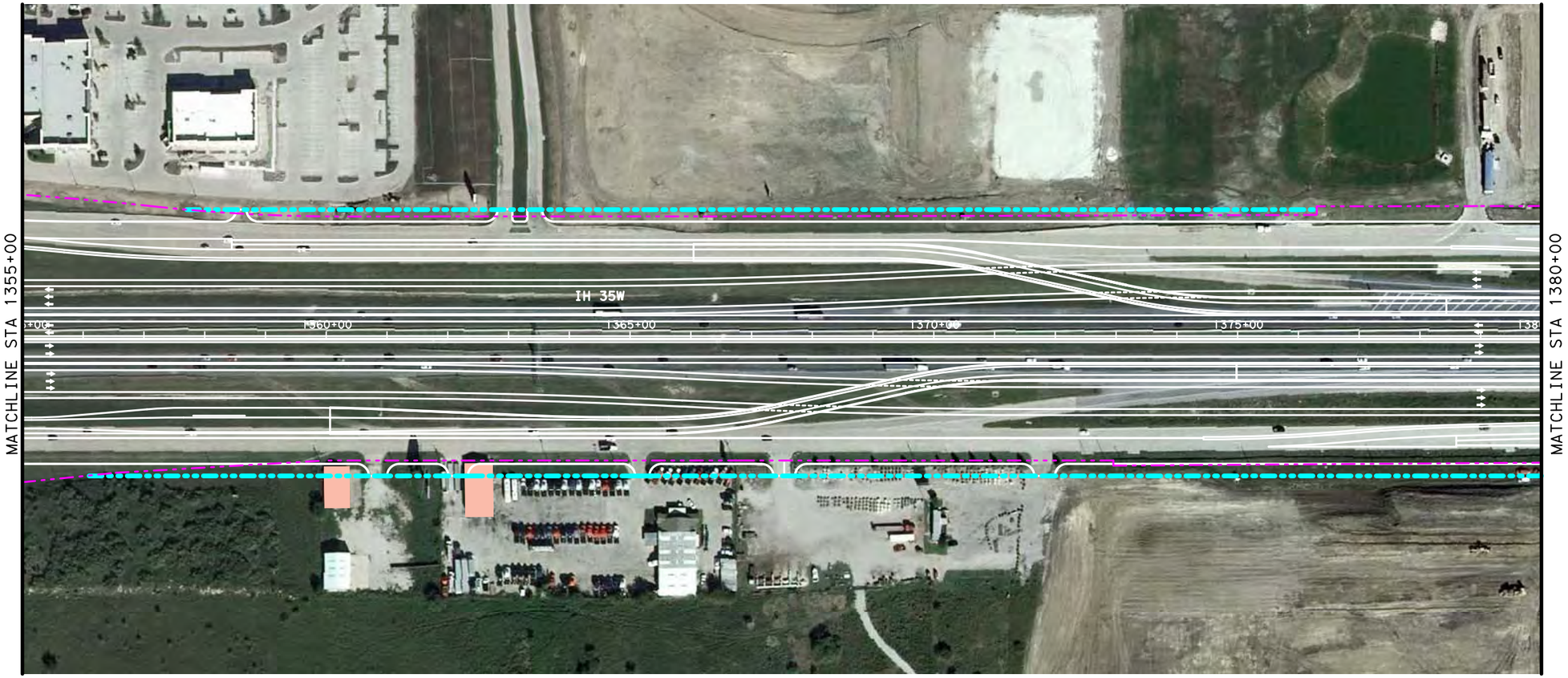
FIGURE 4
ENVIRONMENTAL RESOURCE MAP

IH 35W
FROM SH 114 TO IH 820

CSJs: 0014-16-252 AND 0081-12-041

0 100 200 400
SCALE IN FEET

N



LEGEND

- EXISTING ROW
- PROPOSED ROW
- DRAINAGE EASEMENT
- ## POTENTIAL HAZARDOUS MATERIALS
- IMPACTED NOISE RECEIVERS
- NON-IMPACTED NOISE RECEIVERS
- DISPLACEMENTS
- DELINEATED WETLAND
- WATERS OF THE U.S.
- WOODED AREA
- RIPARIAN
- DATA SAMPLING POINT

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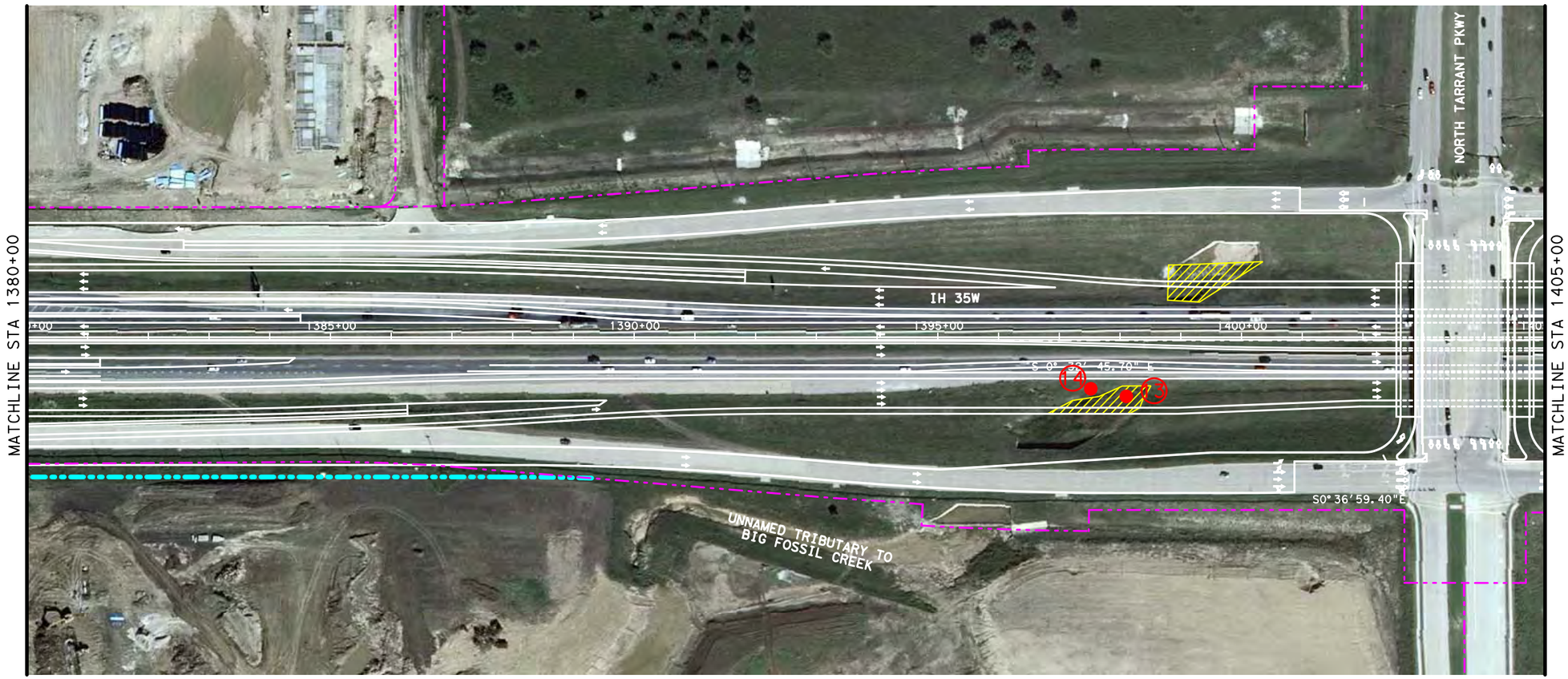
FIGURE 4
ENVIRONMENTAL RESOURCE MAP

IH 35W
FROM SH 114 TO IH 820

CSJs: 0014-16-252 AND 0081-12-041

0 100 200 400
SCALE IN FEET

N



LEGEND

- EXISTING ROW
- PROPOSED ROW
- DRAINAGE EASEMENT
- ## POTENTIAL HAZARDOUS MATERIALS
- IMPACTED NOISE RECEIVERS
- NON-IMPACTED NOISE RECEIVERS
- DISPLACEMENTS
- DELINEATED WETLAND
- WATERS OF THE U.S.
- WOODED AREA
- RIPARIAN
- DATA SAMPLING POINT

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FIGURE 4
ENVIRONMENTAL RESOURCE MAP

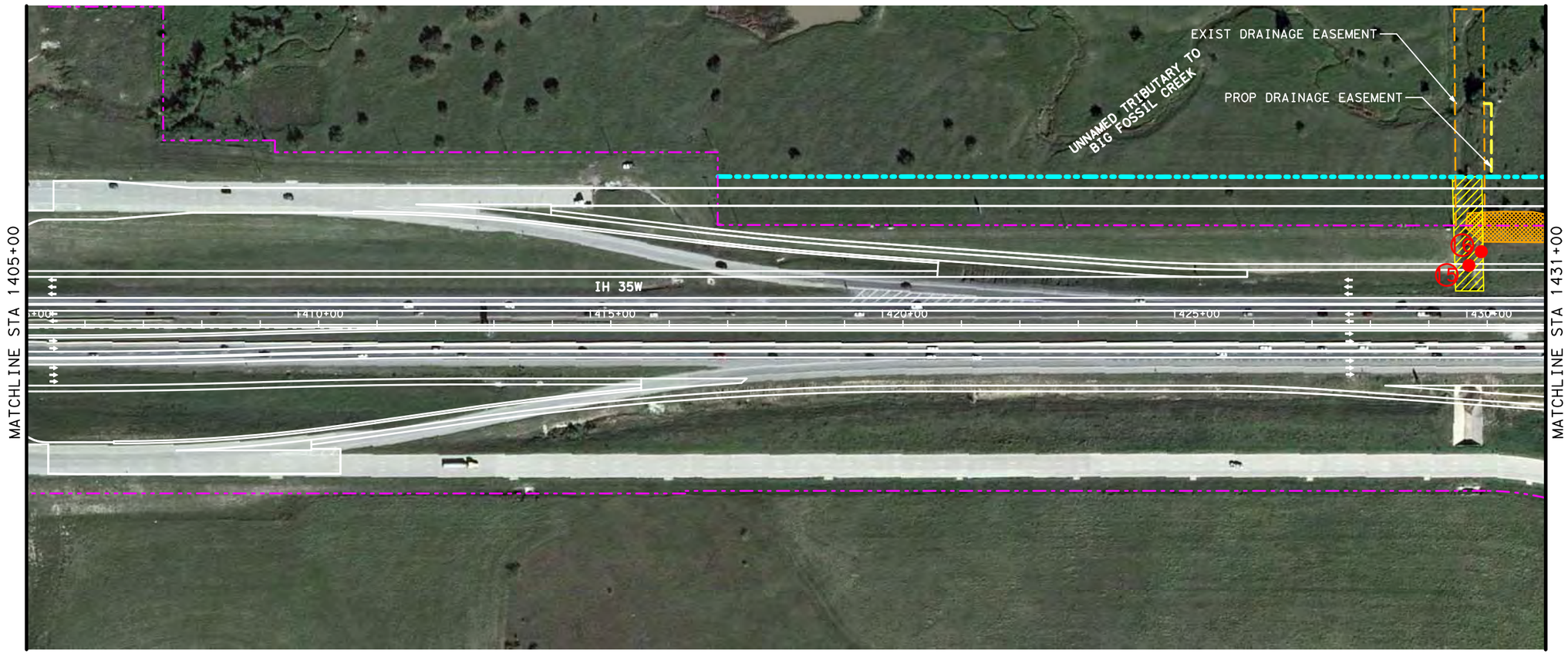
IH 35W
FROM SH 114 TO IH 820

CSJs: 0014-16-252 AND 0081-12-041

SHEET 23 OF 31

0 100 200 400
SCALE IN FEET

N



LEGEND

- EXISTING ROW
- PROPOSED ROW
- DRAINAGE EASEMENT
- POTENTIAL HAZARDOUS MATERIALS
- IMPACTED NOISE RECEIVERS
- NON-IMPACTED NOISE RECEIVERS
- DISPLACEMENTS
- DELINEATED WETLAND
- WATERS OF THE U.S.
- WOODED AREA
- RIPARIAN
- DATA SAMPLING POINT

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FIGURE 4
ENVIRONMENTAL RESOURCE MAP

IH 35W
FROM SH 114 TO IH 820

CSJs: 0014-16-252 AND 0081-12-041

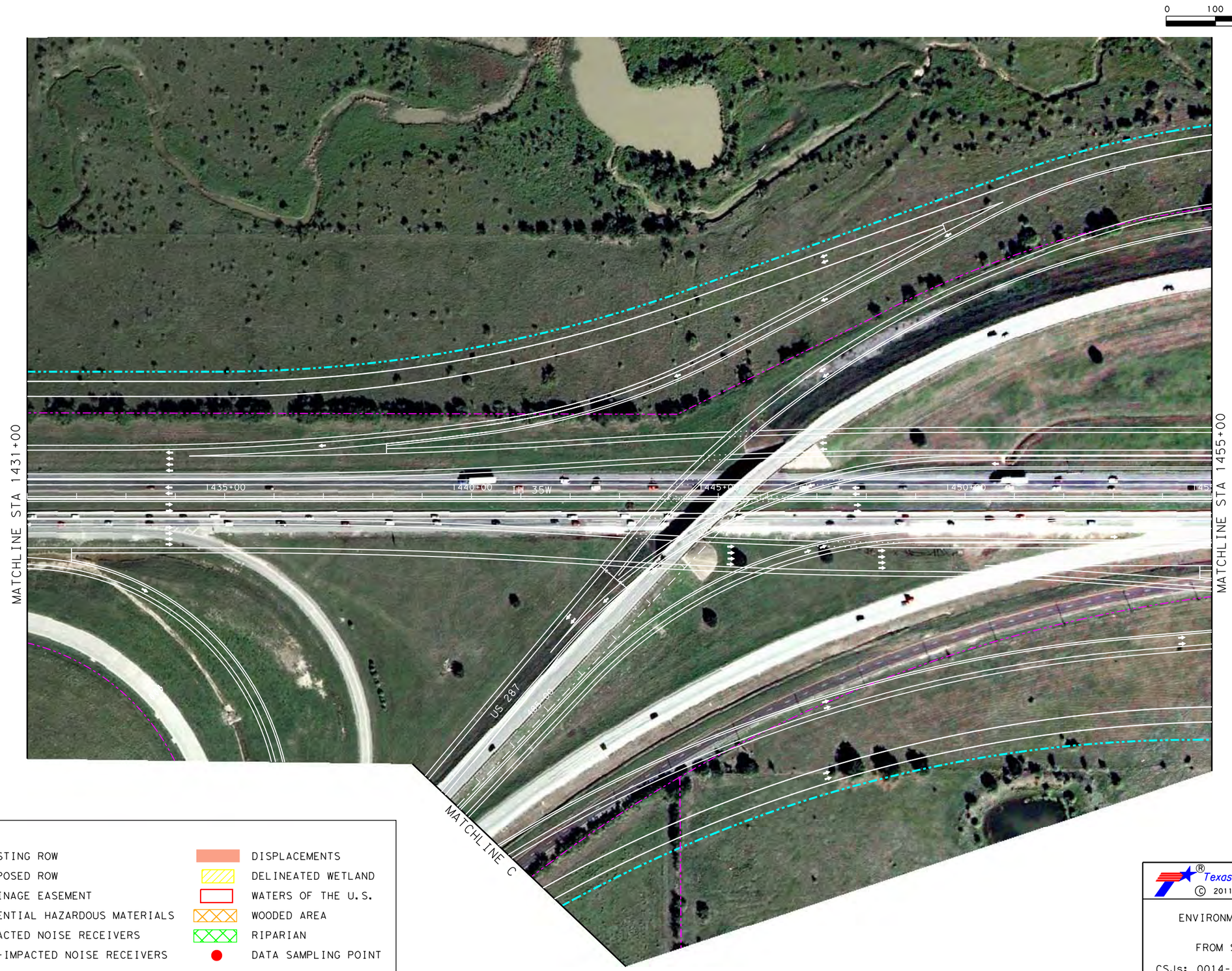

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FIGURE 4
ENVIRONMENTAL RESOURCE MAP

IH 35W
FROM SH 114 TO IH 820

CSJs: 0014-16-252 AND 0081-12-041

SHEET 25 OF 31

0 100 200 400
SCALE IN FEET

N

LEGEND

- EXISTING ROW
- PROPOSED ROW
- DRAINAGE EASEMENT
- ## POTENTIAL HAZARDOUS MATERIALS
- IMPACTED NOISE RECEIVERS
- NON-IMPACTED NOISE RECEIVERS
- DISPLACEMENTS
- DELINEATED WETLAND
- WATERS OF THE U.S.
- WOODED AREA
- RIPARIAN
- DATA SAMPLING POINT

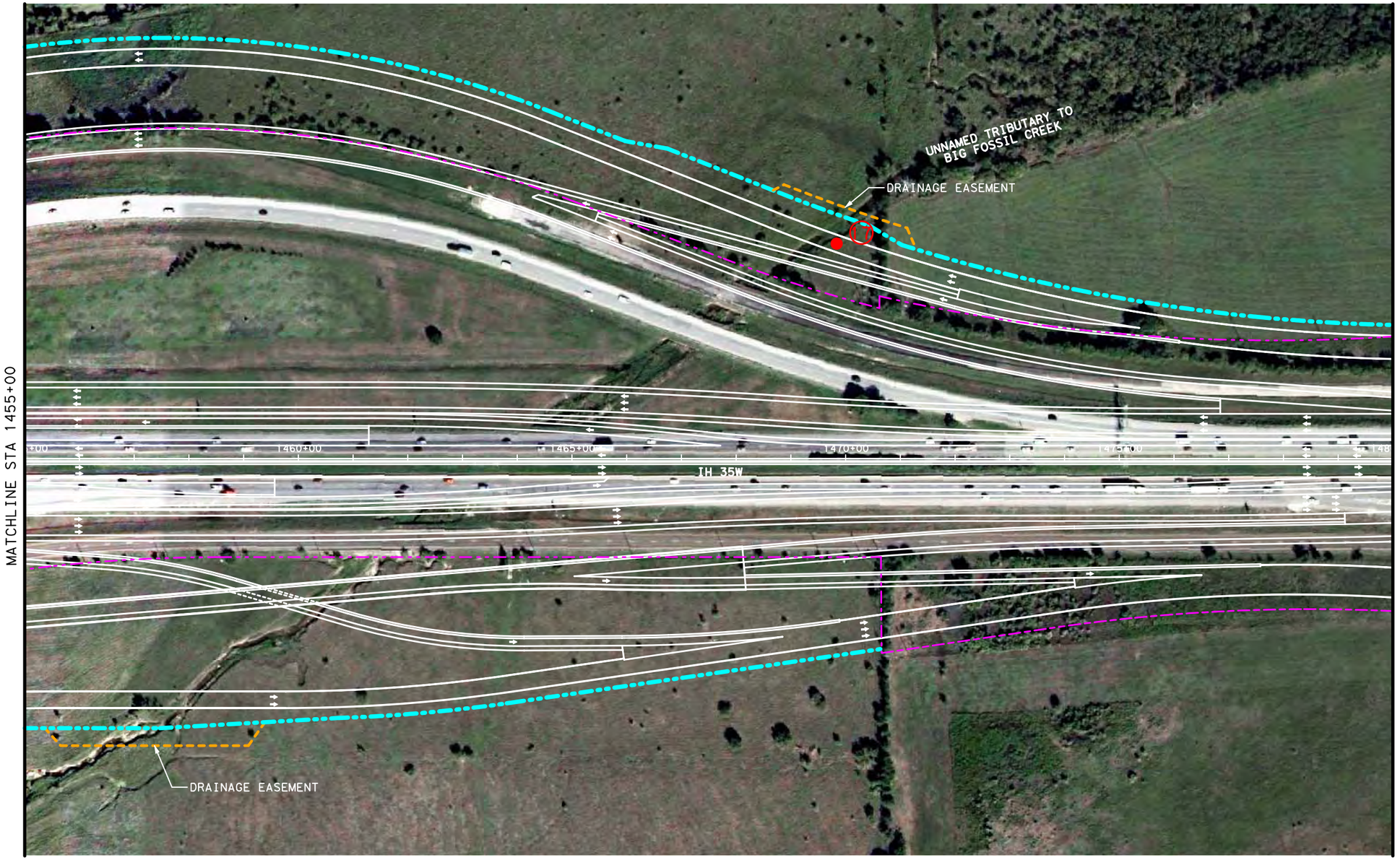
Texas Department of Transportation
© 2011

FIGURE 4
ENVIRONMENTAL RESOURCE MAP

IH 35W
FROM SH 114 TO IH 820

CSJs: 0014-16-252 AND 0081-12-041

SHEET 26 OF 31



0 100 200 400
SCALE IN FEET

N

LEGEND

- EXISTING ROW
- PROPOSED ROW
- DRAINAGE EASEMENT
- ## POTENTIAL HAZARDOUS MATERIALS
- IMPACTED NOISE RECEIVERS
- NON-IMPACTED NOISE RECEIVERS
- DISPLACEMENTS
- DELINEATED WETLAND
- WATERS OF THE U.S.
- WOODED AREA
- RIPARIAN
- DATA SAMPLING POINT

Texas Department of Transportation
© 2009

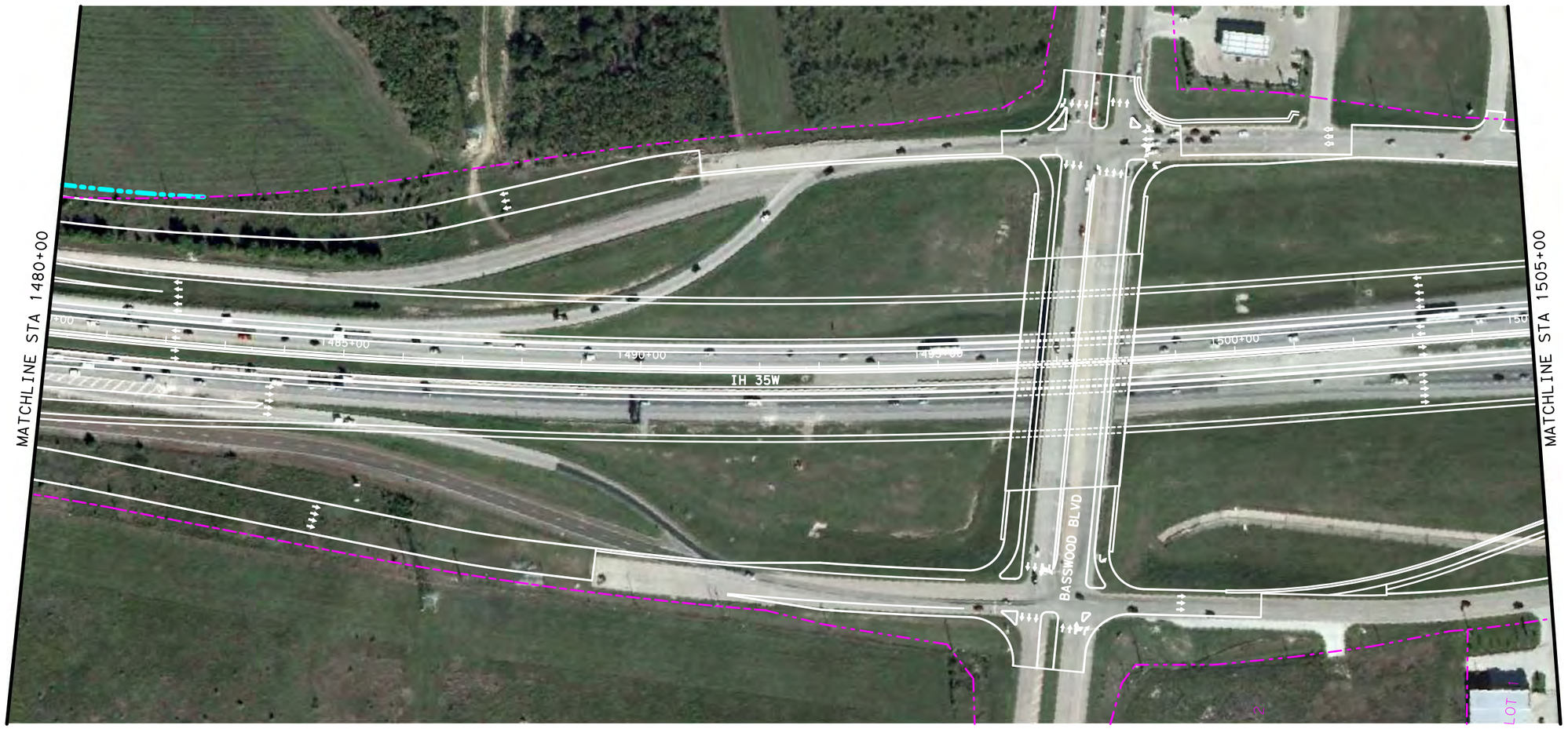
FIGURE 4
ENVIRONMENTAL RESOURCE MAP

IH 35W
FROM SH 114 TO IH 820

CSJs: 0014-16-252 AND 0081-12-041

0 100 200 400
SCALE IN FEET

N



LEGEND

- EXISTING ROW
- PROPOSED ROW
- DRAINAGE EASEMENT
- ## POTENTIAL HAZARDOUS MATERIALS
- IMPACTED NOISE RECEIVERS
- NON-IMPACTED NOISE RECEIVERS
- DISPLACEMENTS
- DELINEATED WETLAND
- WATERS OF THE U.S.
- WOODED AREA
- RIPARIAN
- DATA SAMPLING POINT

Texas Department of Transportation
© 2011

FIGURE 4
ENVIRONMENTAL RESOURCE MAP

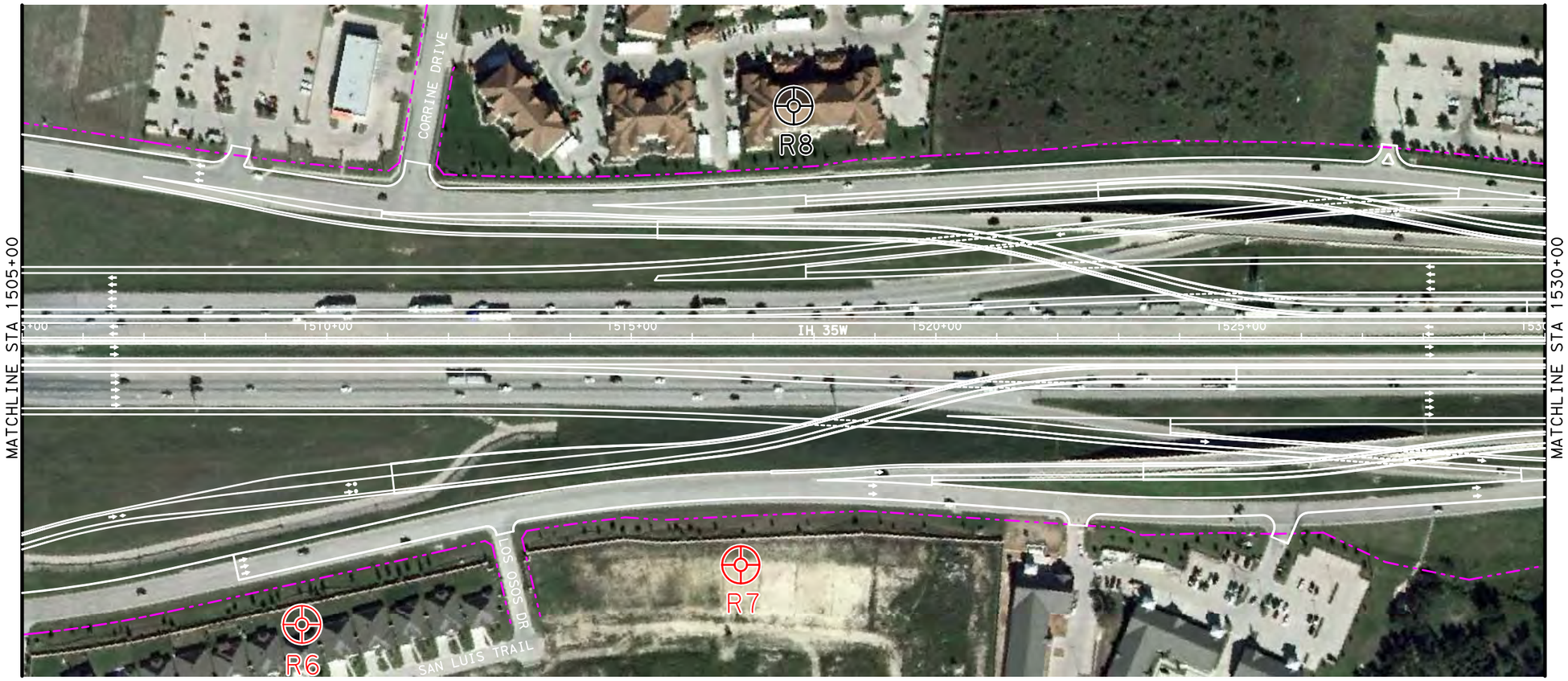
IH 35W
FROM SH 114 TO IH 820

CSJs: 0014-16-252 AND 0081-12-041

SHEET 28 OF 31

0 100 200 400
SCALE IN FEET

N



LEGEND

- EXISTING ROW
- PROPOSED ROW
- DRAINAGE EASEMENT
- ## POTENTIAL HAZARDOUS MATERIALS
- IMPACTED NOISE RECEIVERS
- NON-IMPACTED NOISE RECEIVERS
- DISPLACEMENTS
- DELINEATED WETLAND
- WATERS OF THE U.S.
- WOODED AREA
- RIPARIAN
- DATA SAMPLING POINT

Texas Department of Transportation
© 2011

FIGURE 4
ENVIRONMENTAL RESOURCE MAP

IH 35W
FROM SH 114 TO IH 820

CSJs: 0014-16-252 AND 0081-12-041

0 100 200 400
SCALE IN FEET

N

LEGEND

- EXISTING ROW
- PROPOSED ROW
- DRAINAGE EASEMENT
- ## POTENTIAL HAZARDOUS MATERIALS
- IMPACTED NOISE RECEIVERS
- NON-IMPACTED NOISE RECEIVERS
- DISPLACEMENTS
- DELINEATED WETLAND
- WATERS OF THE U.S.
- WOODED AREA
- RIPARIAN
- DATA SAMPLING POINT

Texas Department of Transportation
© 2009

FIGURE 4
ENVIRONMENTAL RESOURCE MAP

IH 35W
FROM SH 114 TO IH 820

CSJs: 0014-16-252 AND 0081-12-041

SHEET 30 OF 31

LEGEND

- EXISTING ROW
- PROPOSED ROW
- DRAINAGE EASEMENT
- ## POTENTIAL HAZARDOUS MATERIALS
- IMPACTED NOISE RECEIVERS
- NON-IMPACTED NOISE RECEIVERS
- DISPLACEMENTS
- DELINEATED WETLAND
- WATERS OF THE U.S.
- WOODED AREA
- RIPARIAN
- DATA SAMPLING POINT

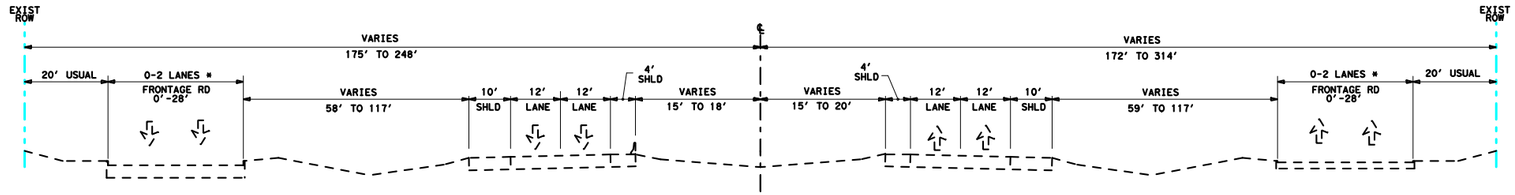
Texas Department of Transportation
© 2009

FIGURE 4
ENVIRONMENTAL RESOURCE MAP

IH 35W
FROM SH 114 TO IH 820

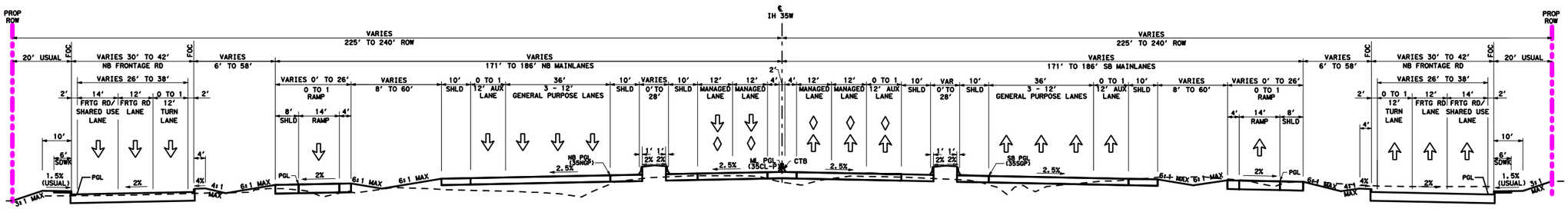
CSJs: 0014-16-252 AND 0081-12-041

SHEET 31 OF 31



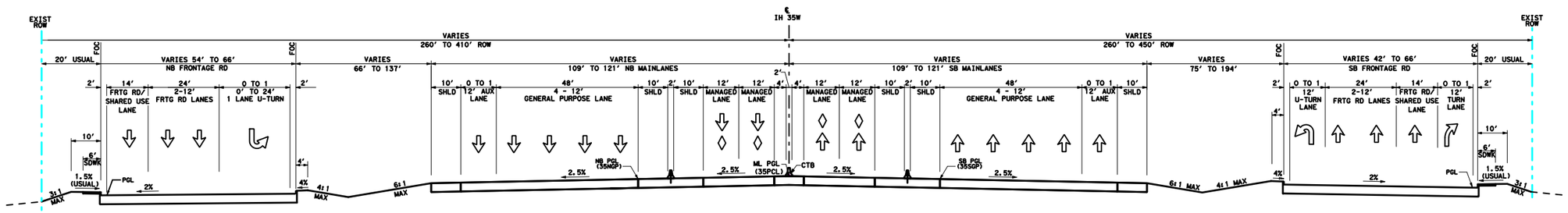
EXISTING TYPICAL SECTION

IH 35W
N. T. S.



PROPOSED TYPICAL SECTION

IH 35W
FROM EAGLE PARKWAY TO US 81/287
N. T. S.



PROPOSED TYPICAL SECTION

IH 35
FROM US 81/287 TO BASSWOOD BLVD
N. T. S.

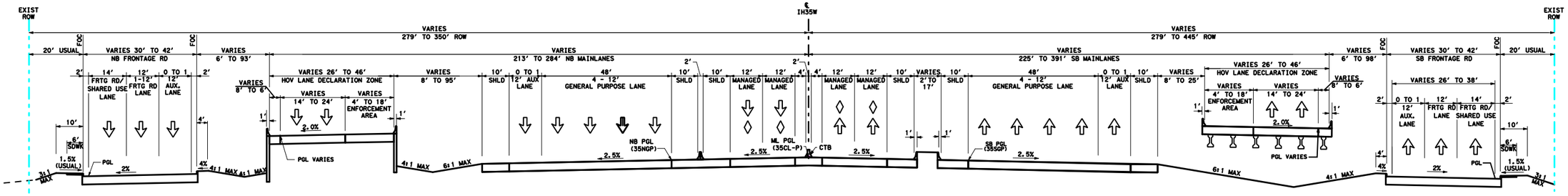
Texas Department of Transportation
© 2009

FIGURE 5
TYPICAL SECTIONS

IH35W
FROM SH 114 TO IH 820

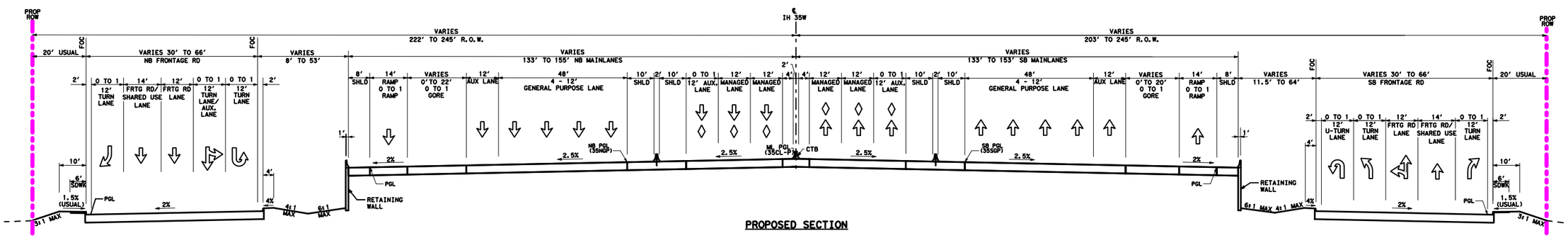
CSJs 0014-16-252 AND 0081-12-041

SHEET 1 OF 2



PROPOSED SECTION

IH 35W
FROM BASSWOOD BLVD TO WESTERN CENTER BLVD
N.T.S.



PROPOSED SECTION

IH 35W
FROM WESTERN CENTER BLVD TO IH 820
N.T.S.

Texas Department of Transportation
© 2009

FIGURE 5
TYPICAL SECTIONS

IH35W
FROM SH 114 TO IH 820

CSJs 0014-16-252 AND 0081-12-041

SHEET 2 OF 2

0203.062017
0203.062020
0203.062022
0203.062019
0203.062086
0203.062085
Begin Project
Logical Terminus
CSJ: 0081-12-041
0203.062
0203.062083
SH 114
35W
Eagle Pkwy
0203.062
1139.271
1139.271
Denton/Tarrant County Line
0203.084062
0203.084
0203.084101
0203.084118
0203.062098
MATCHLINE A
0203.062140
0203.062140

Base Map Source: NCTCOG, 2011

Example of Block Number
1234.567890
Census Tract: 1234.56
Block Group: 7
Block: 7890

Legend

- Tarrant/ Denton Block Group
- Denton Block Numbers
- Tarrant Block Numbers

Tarrant and Denton Counties

Project Limits

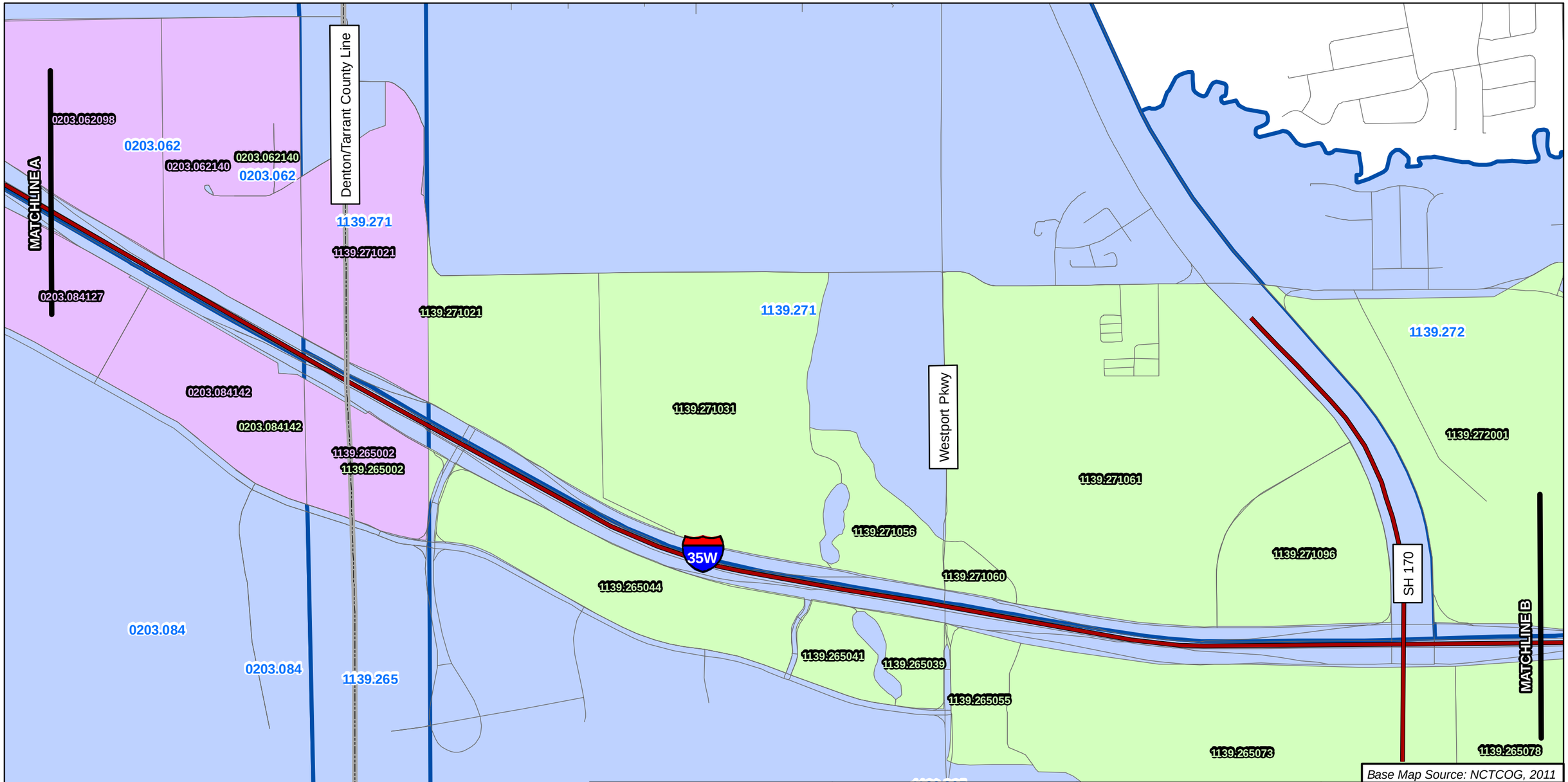
Tarrant and Denton Counties

N E S W

0 1,000 Feet

FIGURE 6
CENSUS BLOCK MAP

IH 35W
FROM SH 114 TO IH 820
CSJs: 0014-16-252 AND 0081-12-041



Example of Block Number
1234.567890
Census Tract: 1234.56
Block Group: 7
Block: 7890

Legend

- Tarrant/ Denton Block Group
- Denton Block Numbers
- Tarrant Block Numbers

FIGURE 6
CENSUS BLOCK MAP

IH 35W
FROM SH 114 TO IH 820
CSJs: 0014-16-252 AND 0081-12-041

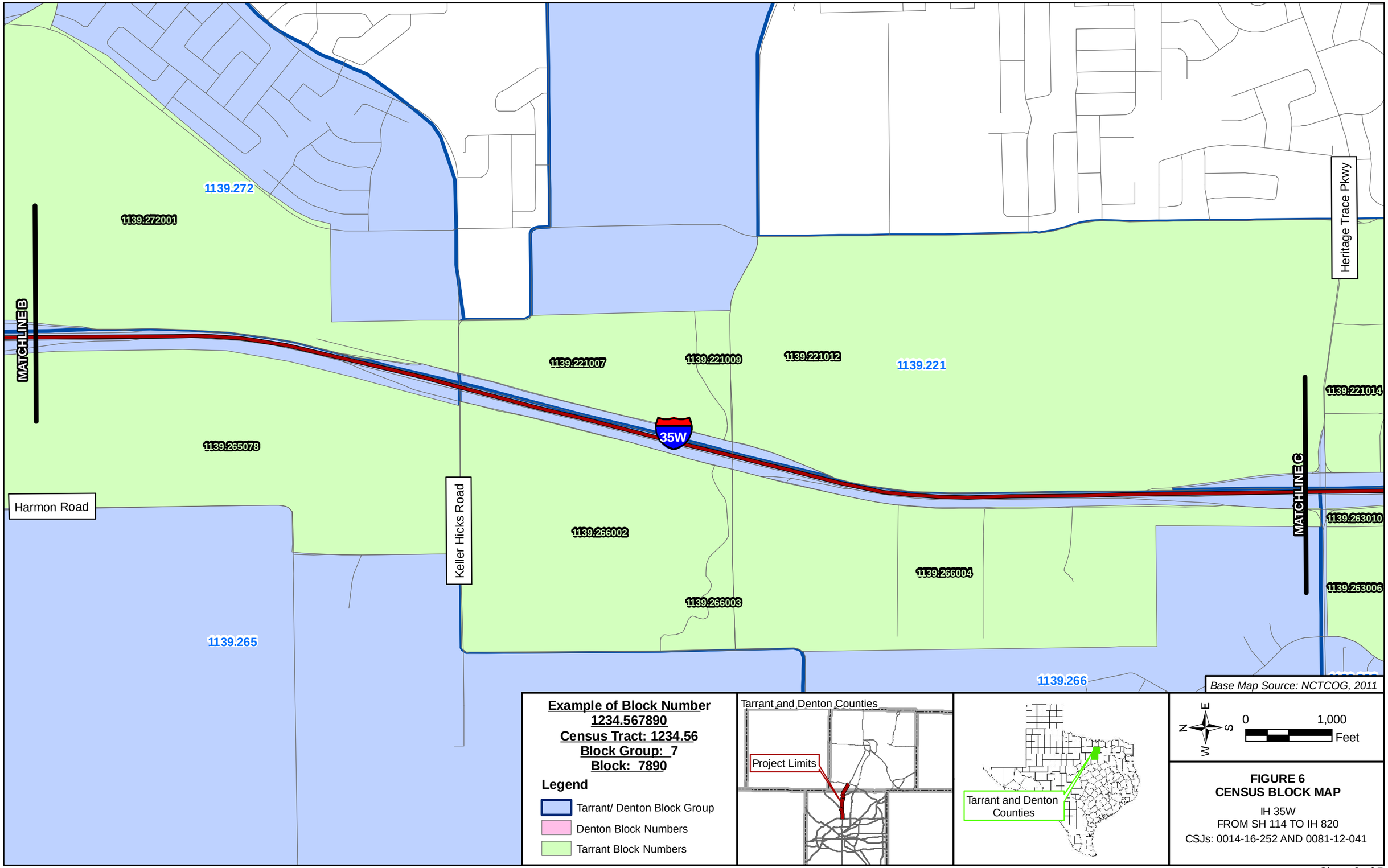


FIGURE 6
CENSUS BLOCK MAP

IH 35W
FROM SH 114 TO IH 820
CSJs: 0014-16-252 AND 0081-12-041

Heritage Trace Pkwy

Old Denton Road

North Tarrant Pkwy

Basswood Blvd

Begin Project Terminus
CSJ: 0014-16-252

End Project
CSJ: 0081-12-041

35W

MATCHLINE C

MATCHLINE D

1139.221012

1139.221014

1139.221

1139.232

1139.232010

1139.231

1139.231002

1139.232000

1139.266004

1139.263010

1139.264043

1139.264

1139.264023

1139.263006

1139.263

1139.266

1139.261034

1139.261004

1139.261

Base Map Source: NCTCOG, 2011

Example of Block Number
1234.567890
Census Tract: 1234.56
Block Group: 7
Block: 7890

Legend

- Tarrant/ Denton Block Group
- Denton Block Numbers
- Tarrant Block Numbers

Tarrant and Denton Counties

Project Limits

Tarrant and Denton Counties

N E S W

0 1,000 Feet

FIGURE 6
CENSUS BLOCK MAP

IH 35W
FROM SH 114 TO IH 820
CSJs: 0014-16-252 AND 0081-12-041

Western Center Blvd

Basswood Blvd

Fossil Creek Blvd

820

35W

Old Denton Road

End Project
Logical Terminus
CSJ: 0014-16-252

MATCHLINED

1139.232

1139.232010

1139.231

1139.231002

1139.231004

1139.231026

1139.231028

1050.072014

1050.071

1050.071014

1050.071015

1050.071021

1050.071019

1139.264032

1050.081

1050.081002

1139.264043

1139.264023

1139.261034

1139.261

1139.264

1139.264010

1139.261034

Base Map Source: NCTCOG, 2011

Example of Block Number
1234.567890
Census Tract: 1234.56
Block Group: 7
Block: 7890

Legend

- Tarrant/ Denton Block Group
- Denton Block Numbers
- Tarrant Block Numbers

Tarrant and Denton Counties

Project Limits

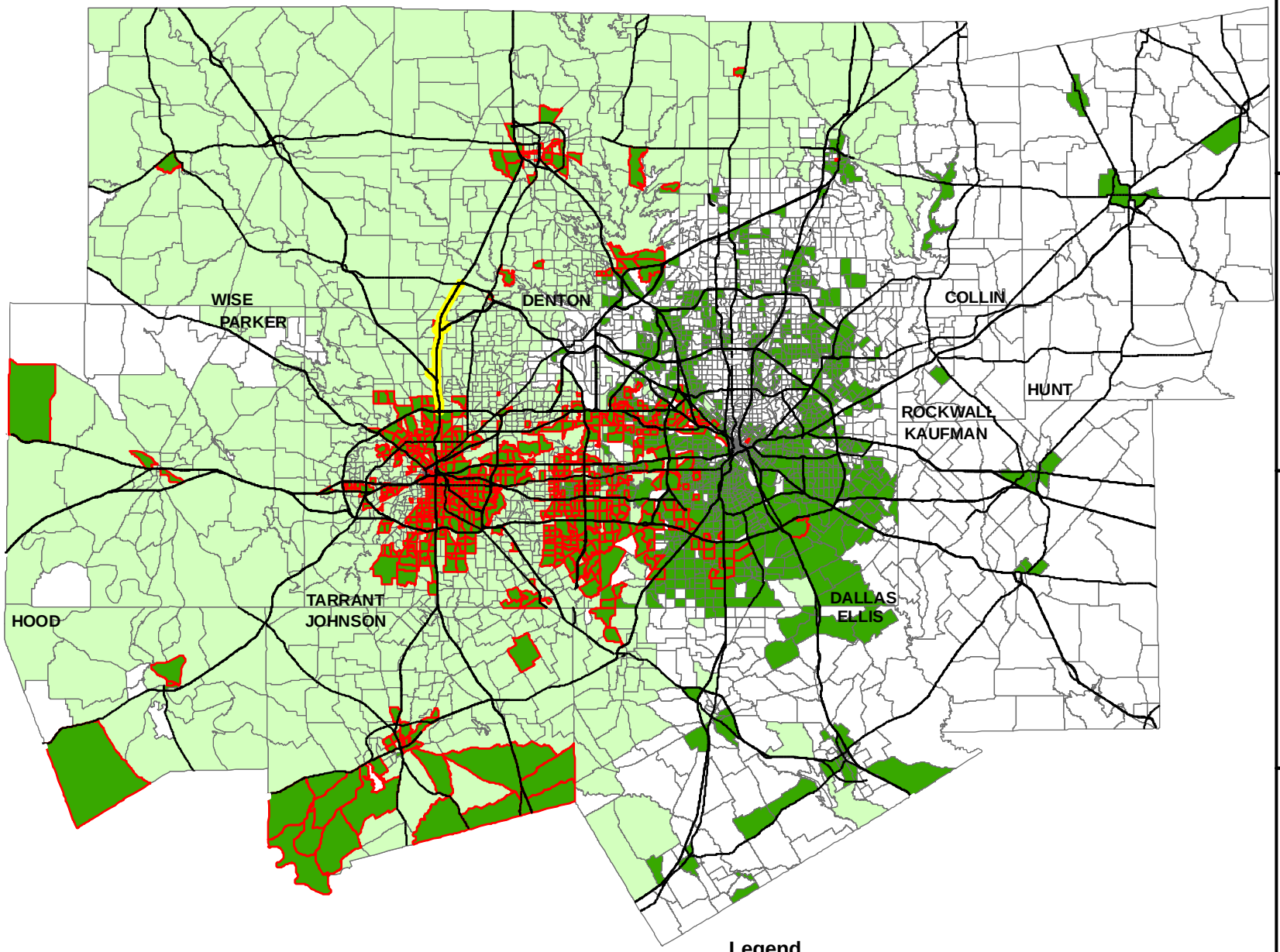
Tarrant and Denton Counties

N W E S

0 1,000 Feet

FIGURE 6
CENSUS BLOCK MAP

IH 35W
FROM SH 114 TO IH 820
CSJs: 0014-16-252 AND 0081-12-041



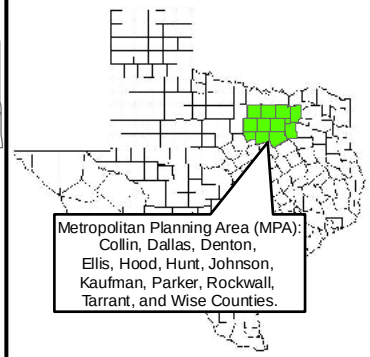
Legend

- Project Limits
- Highways
- TSZs
- EJ TSZs Utilizing Proposed Facility
- EJ TSZs in MPA
- TSZs Utilizing Proposed Facility

N
W E
S

0 15
Miles

Basemap Source: NCTCOG GIS, TSZ &Origin-Destination Data (November 2011)



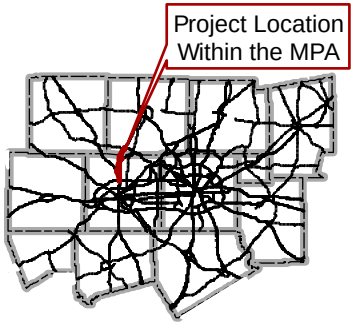
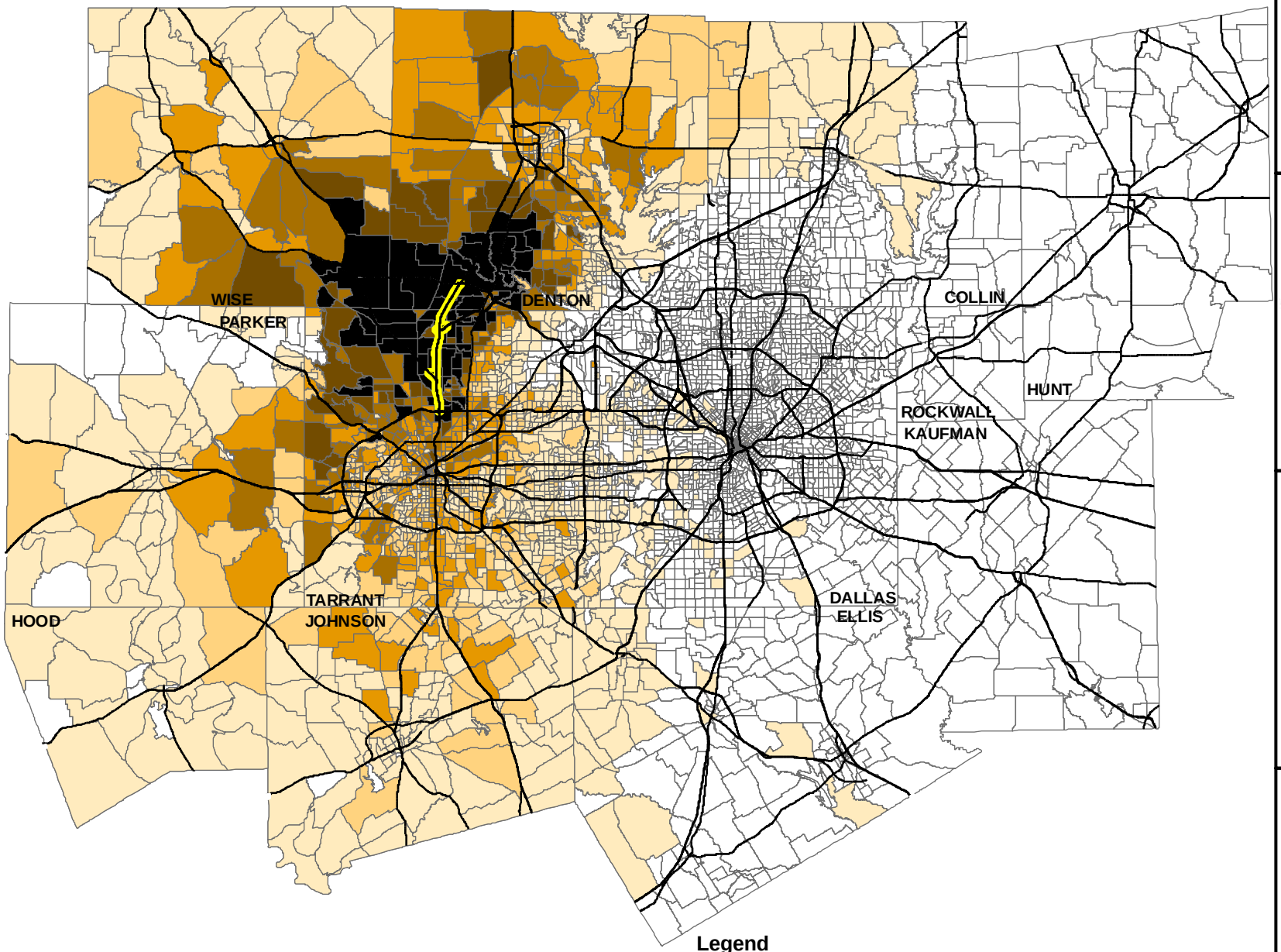


FIGURE 7
EJ AND NON-EJ TSZS UTILIZING PROPOSED FACILITY AT LEAST ONCE A DAY IN THE 2035 BUILD SCENARIO

IH 35W
FROM SH 114 TO IH 820

CSJS: 0014-16-252
AND 0081-12-041



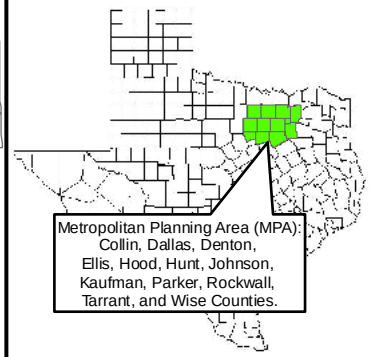
Legend

- Project Limits
- Highways
- TSZs
- 1 to 5 Trips
- 6 to 10 Trips
- 11 to 25 Trips
- 26 to 50 Trips
- 51 to 100 Trips
- 101 to 1,511 Trips

N
W E
S

0 15
Miles

Basemap Source: NCTCOG GIS, TSZ &Origin-Destination Data (November 2011)



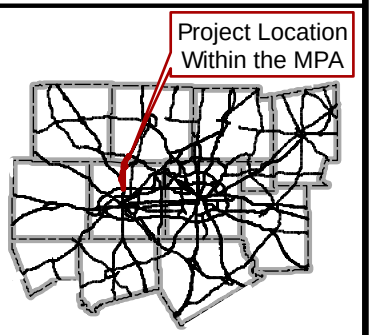
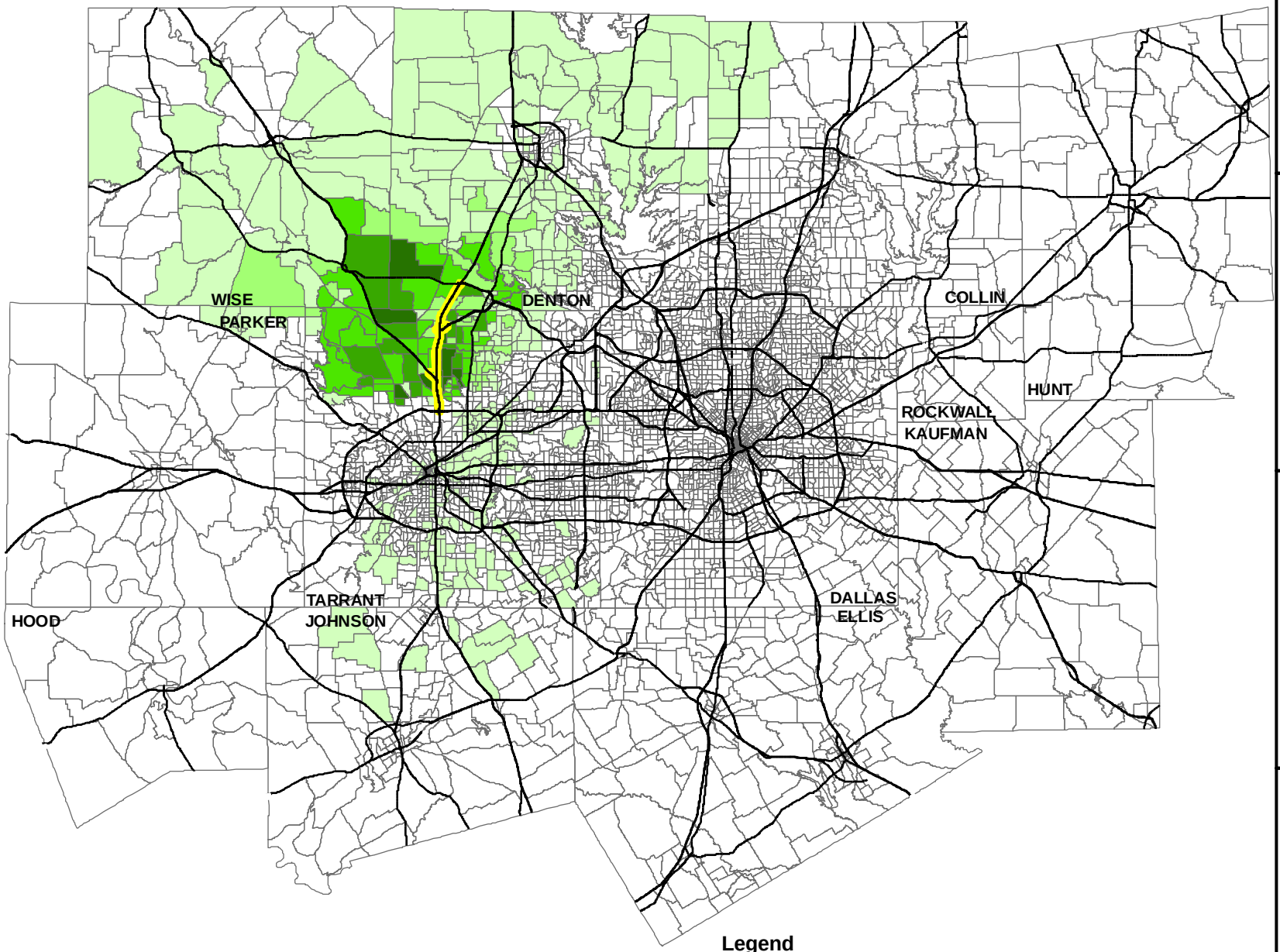


FIGURE 8
TSZS UTILIZING THE MAIN LANES AT LEAST ONCE A DAY IN THE 2035 BUILD SCENARIO

IH 35W
FROM SH 114 TO IH 820

CSJS: 0014-16-252
AND 0081-12-041



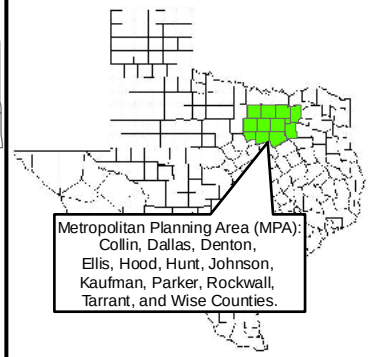
Legend

- Project Limits
- Highways
- TSZs
- 1 to 5 Trips
- 6 to 10 Trips
- 11 to 25 Trips
- 26 to 50 Trips
- 51 to 123 Trips

N
W E
S

0 15
Miles

Basemap Source: NCTCOG GIS, TSZ &Origin-Destination Data (November 2011)



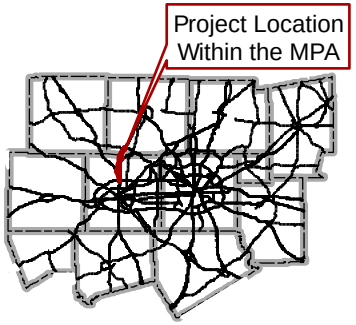
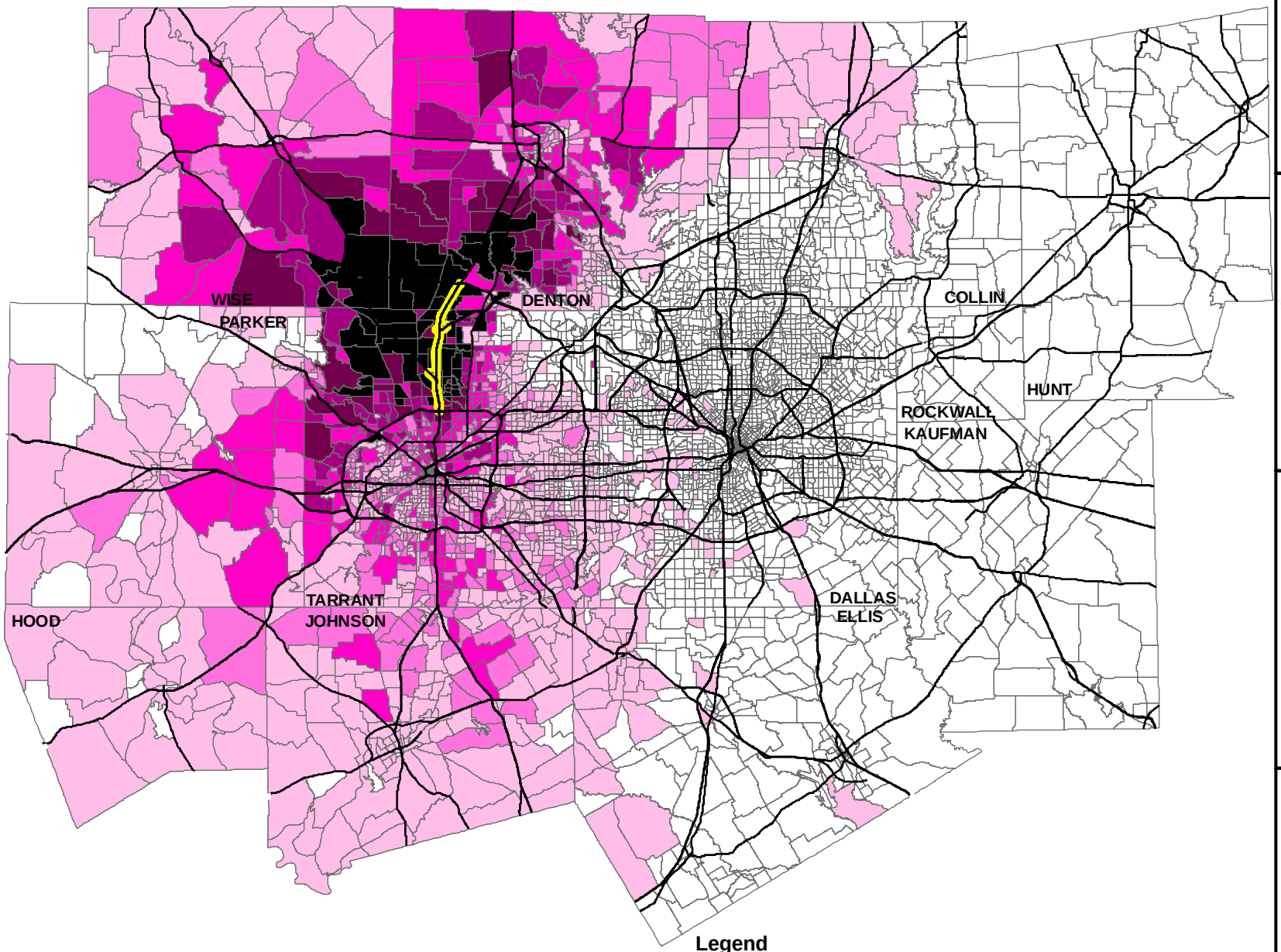


FIGURE 9
TSZS UTILIZING THE MANAGED LANES AT LEAST ONCE A DAY IN THE 2035 BUILD SCENARIO

IH 35W
FROM SH 114 TO IH 820

CSJS: 0014-16-252
AND 0081-12-041



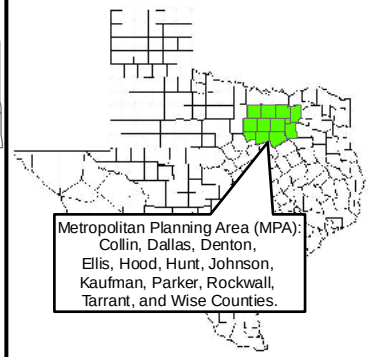
Legend

- Project Limits
- Highways
- TSZs
- 1 to 5 Trips
- 6 to 10 Trips
- 11 to 25 Trips
- 26 to 50 Trips
- 51 to 100 Trips
- 101 to 1,098 Trips

N
W E
S

0 15
Miles

Basemap Source: NCTCOG GIS, TSZ &Origin-Destination Data (November 2011)



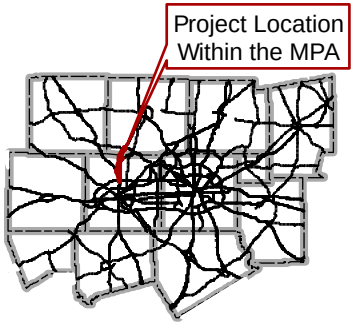
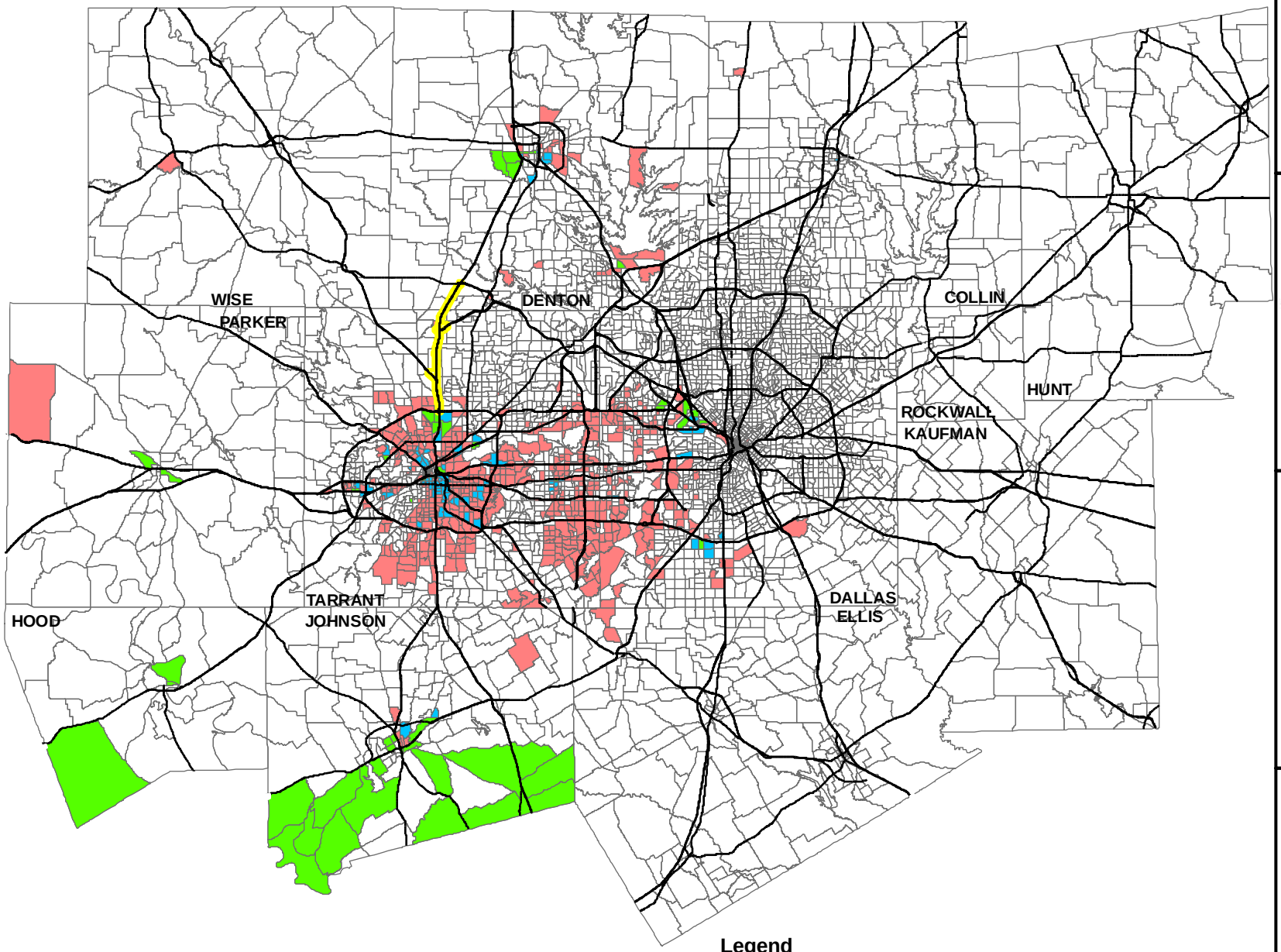


FIGURE 10
TSZS UTILIZING THE EXISTING FACILITY AT LEAST ONCE A DAY IN THE 2035 NO-BUILD SCENARIO

IH 35W
FROM SH 114 TO IH 820

CSJS: 0014-16-252
AND 0081-12-041



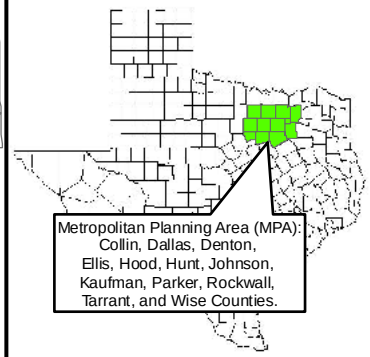
Legend

- Project Limits
- Highways
- TSZs
- Low-income >= 50%, Minority >= 50%
- Low-income >= 50%
- Minority >= 50%

N
W E
S

0 15
Miles

Basemap Source: NCTCOG GIS, TSZ &Origin-Destination Data (November 2011)



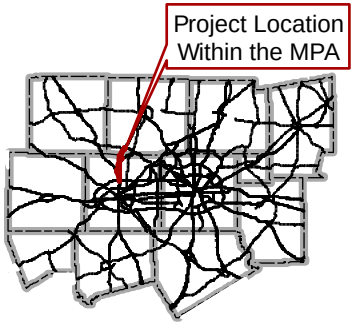
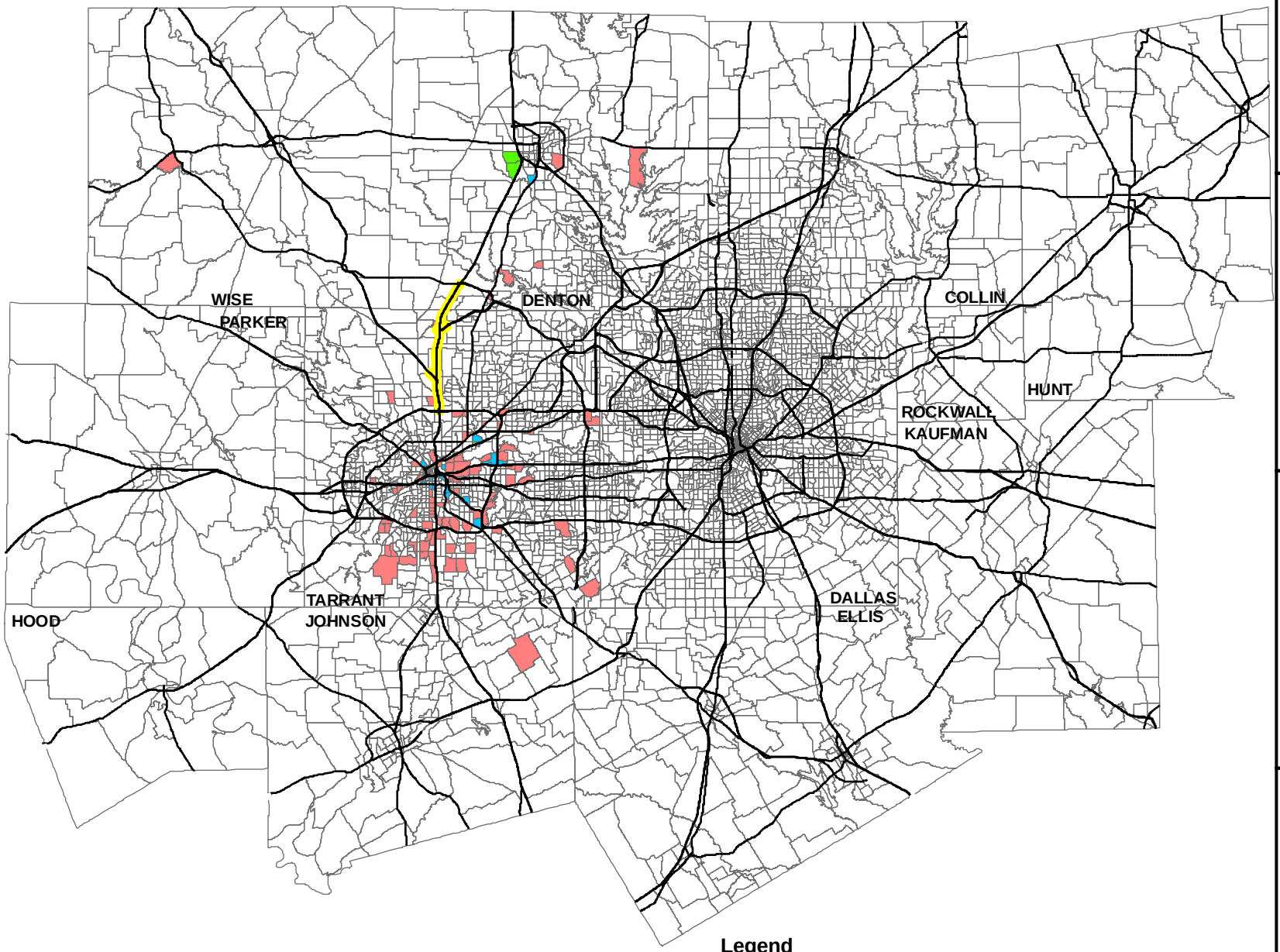


FIGURE 11
BREAKDOWN OF EJ TSZS UTILIZING THE MAIN LANES AT LEAST ONCE A DAY IN THE 2035 BUILD SCENARIO

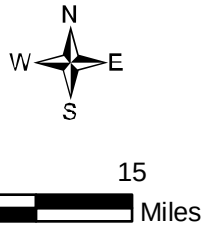
IH 35W
FROM SH 114 TO IH 820

CSJS: 0014-16-252
AND 0081-12-041

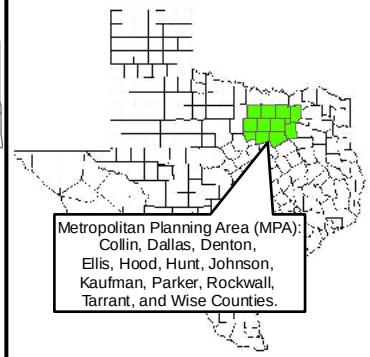


Legend

- Project Limits
- Highways
- TSZs
- Low-income >= 50%, Minority >= 50%
- Low-income >= 50%
- Minority >= 50%



Basemap Source: NCTCOG GIS, TSZ &Origin-Destination Data (November 2011)



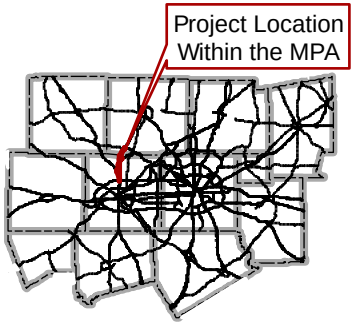
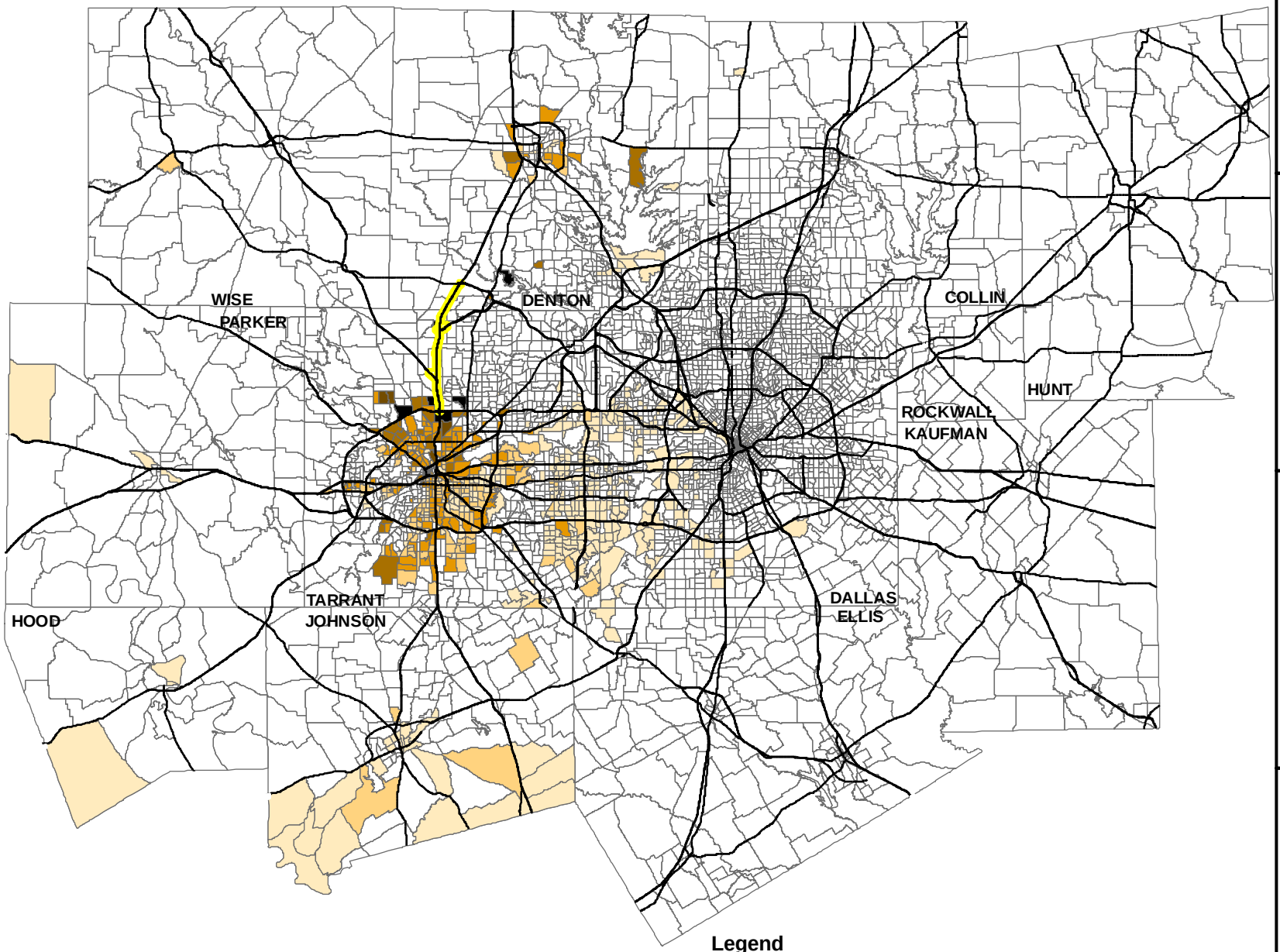


FIGURE 12
BREAKDOWN OF EJ TSZS UTILIZING THE MANAGED LANES AT LEAST ONCE A DAY IN THE 2035 BUILD SCENARIO

IH 35W
FROM SH 114 TO IH 820

CSJS: 0014-16-252
AND 0081-12-041



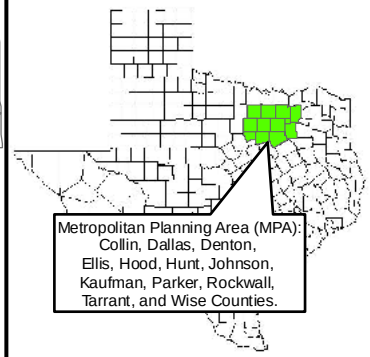
Legend

- Project Limits
- Highways
- TSZs
- 1 to 5 Trips
- 6 to 10 Trips
- 11 to 25 Trips
- 26 to 50 Trips
- 51 to 100 Trips
- 101 to 251 Trips

N
W E
S

0 15
Miles

Basemap Source: NCTCOG GIS, TSZ &Origin-Destination Data (November 2011)



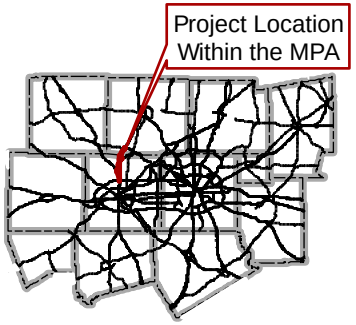
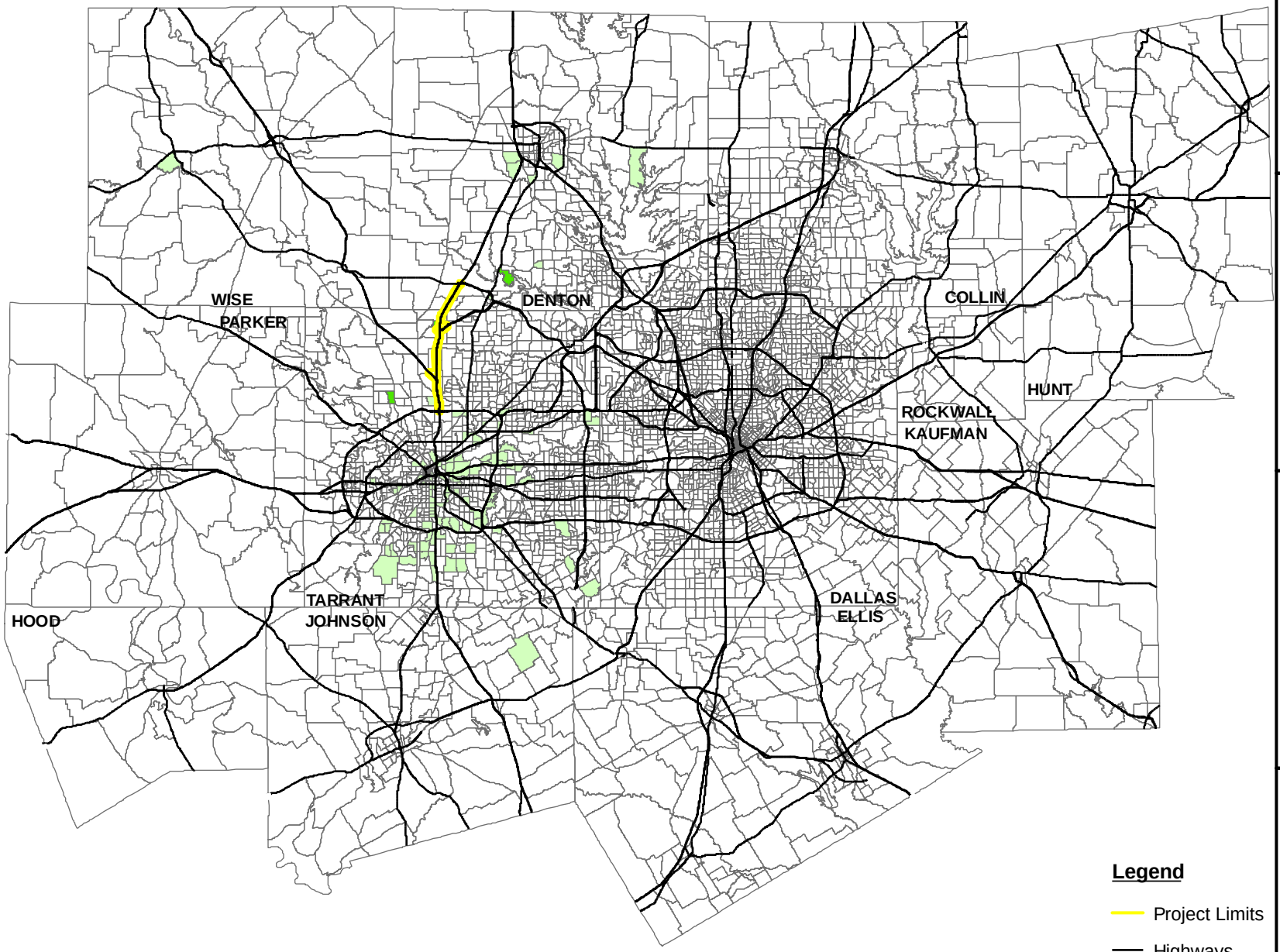


FIGURE 13
EJ TSZS UTILIZING THE MAIN LANES AT LEAST ONCE A DAY IN THE 2035 BUILD SCENARIO

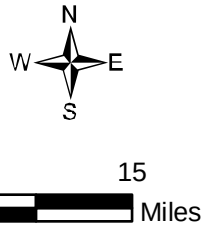
IH 35W
FROM SH 114 TO IH 820

CSJS: 0014-16-252
AND 0081-12-041

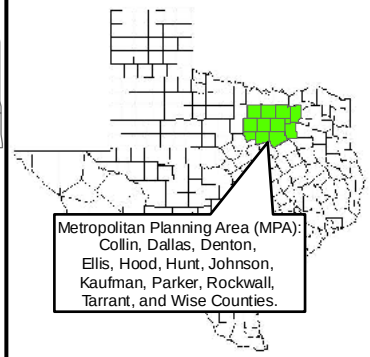


Legend

- Project Limits
- Highways
- TSZs
- 1 to 5 Trips
- 6 to 23 Trips



Basemap Source: NCTCOG GIS, TSZ &Origin-Destination Data (November 2011)



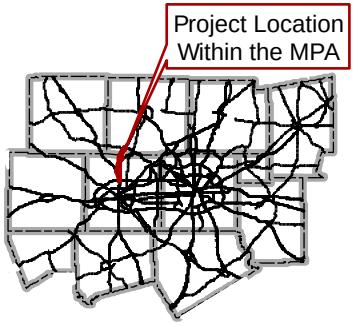
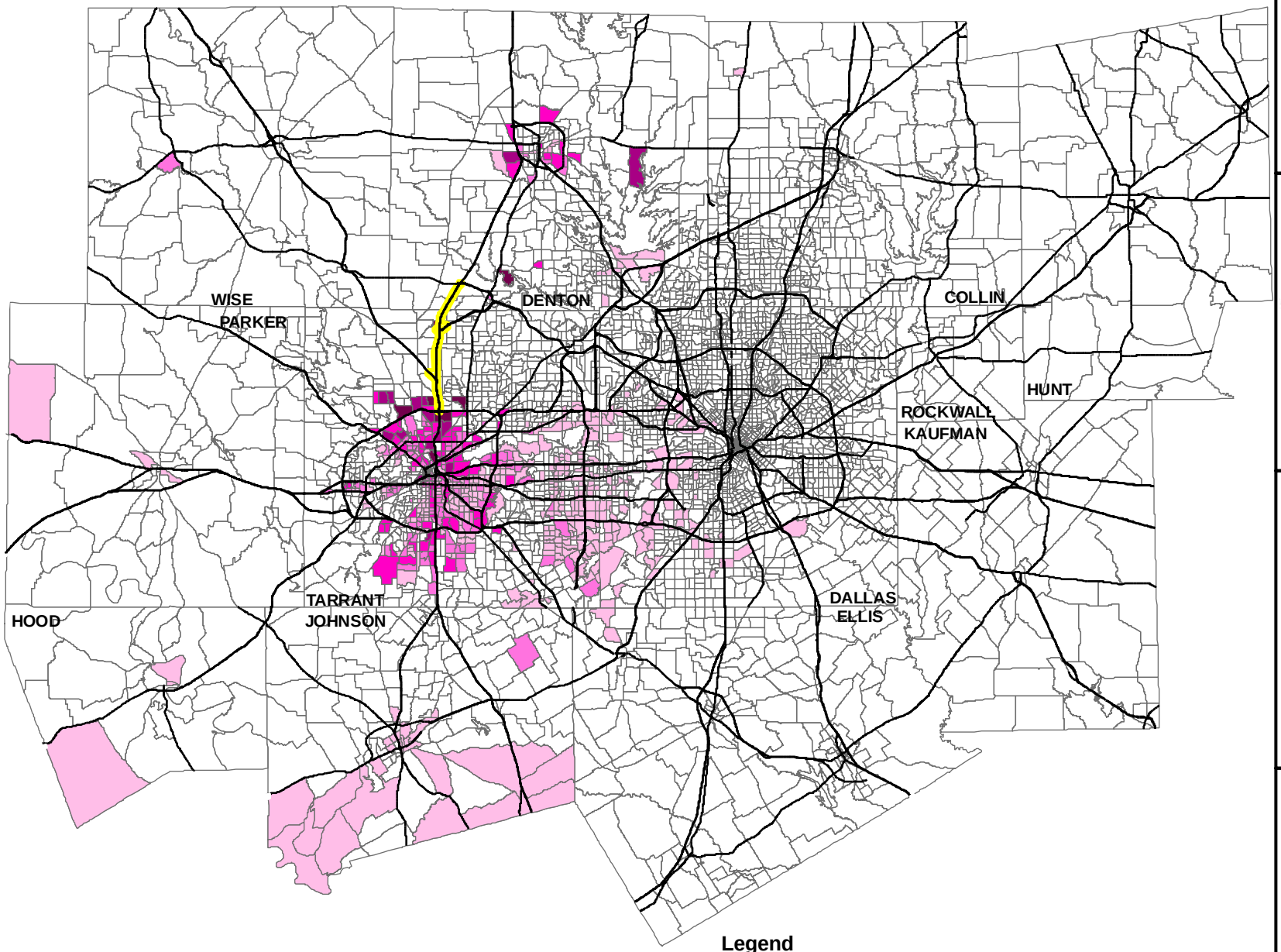


FIGURE 14
EJ TSZS UTILIZING THE MANAGED LANES AT LEAST ONCE A DAY IN THE 2035 BUILD SCENARIO

IH 35W
FROM SH 114 TO IH 820

CSJS: 0014-16-252
AND 0081-12-041



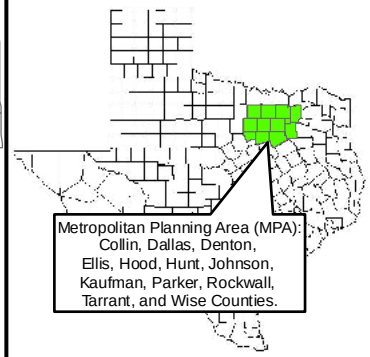
Legend

- Project Limits
- Highways
- TSZs
- 1 to 5 Trips
- 6 to 10 Trips
- 11 to 25 Trips
- 26 to 50 Trips
- 51 to 214 Trips

N
W E
S

0 15
Miles

Basemap Source: NCTCOG GIS, TSZ &Origin-Destination Data (November 2011)



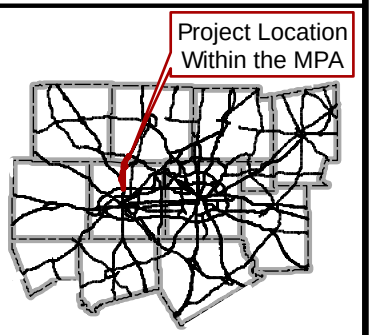


FIGURE 15
EJ TSZS UTILIZING THE EXISTING FACILITY AT LEAST ONCE A DAY IN THE 2035 NO-BUILD SCENARIO

IH 35W
FROM SH 114 TO IH 820

CSJS: 0014-16-252
AND 0081-12-041

Photo No. 1 – US 81/287 and frontage road, eastbound.

Photo No. 2 – IH 35W and frontage road, northbound.

FIGURE 16
PROJECT AREA PHOTOGRAPHS
IH 35W NORTH FROM SH 114 TO IH 820
CSJs: 0014-16-252 & 0081-12-041
SHEET 1 OF 7

Photo No. 3 – IH 35W southbound frontage road and urban landscaping. IH 35W southbound in background.

Photo No. 4 – Pasture land adjacent to roadway looking east.

FIGURE 16
PROJECT AREA PHOTOGRAPHS
IH 35W NORTH FROM SH 114 TO IH 820
CSJs: 0014-16-252 & 0081-12-041
SHEET 2 OF 7

Photo No. 5 – IH 35W southbound frontage road over Henrietta Creek. IH 35W southbound in background.

Photo No. 6 – Eastbound US 81/287 frontage road; US 81/287 in background. Example of fencerow vegetation indicative of features and species.

FIGURE 16
PROJECT AREA PHOTOGRAPHS
IH 35W NORTH FROM SH 114 TO IH 820
CSJs: 0014-16-252 & 0081-12-041
SHEET 3 OF 7

Photo No. 7 – Northbound IH 35W frontage road. Urban landscaping (Shumard and Live oaks) that could be impacted.

Photo No. 8 – Looking west from IH 35W southbound frontage road. Pasture area where proposed SH 170 would extend.

FIGURE 16
PROJECT AREA PHOTOGRAPHS
IH 35W NORTH FROM SH 114 TO IH 820
CSJs: 0014-16-252 & 0081-12-041
SHEET 4 OF 7

Photo No. 9 – Looking north at current developer wall.

Photo No. 10 – Crossing No. 14 – Big Fossil Creek, looking west.

FIGURE 16
PROJECT AREA PHOTOGRAPHS
IH 35W NORTH FROM SH 114 TO IH 820
CSJs: 0014-16-252 & 0081-12-041
SHEET 5 OF 7

Photo No. 11 – Mobil Station on the southwest corner of Westport and IH 35W. Looking southwest.

Photo No. 12 – Mobil Station with locations of USTs potentially impacted by the proposed project. Looking west.

FIGURE 16
PROJECT AREA PHOTOGRAPHS
IH 35W NORTH FROM SH 114 TO IH 820
CSJs: 0014-16-252 & 0081-12-041
SHEET 6 OF 7

Photo No. 13 – Low quality riparian area. Looking southwest from IH 35W.

Photo No. 14 – Low quality riparian area. Look southwest of SH 81.

FIGURE 16
PROJECT AREA PHOTOGRAPHS
IH 35W NORTH FROM SH 114 TO IH 820
CSJs: 0014-16-252 & 0081-12-041
SHEET 7 OF 7

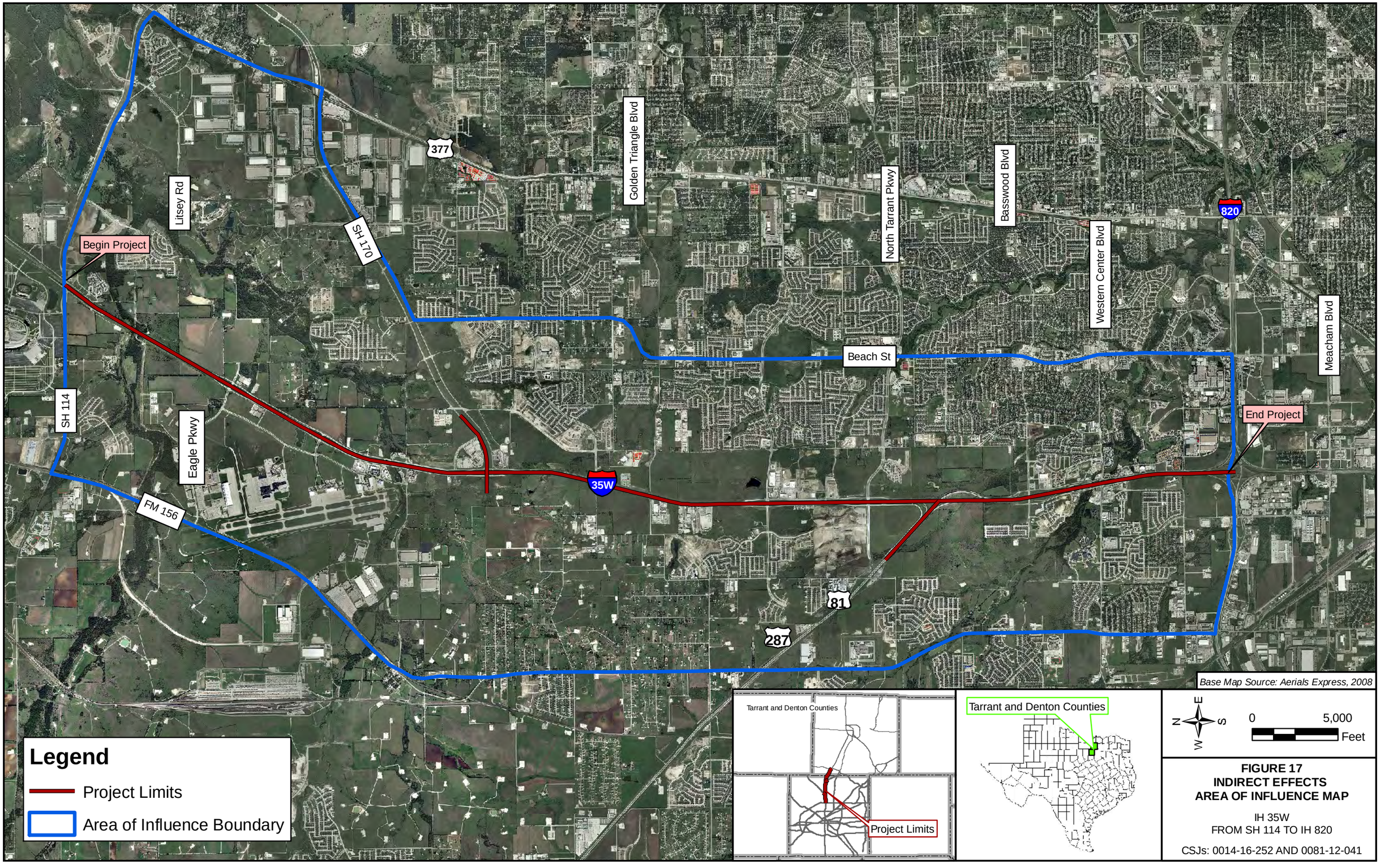


FIGURE 17
INDIRECT EFFECTS
AREA OF INFLUENCE MAP

IH 35W
FROM SH 114 TO IH 820

CSJs: 0014-16-252 AND 0081-12-041

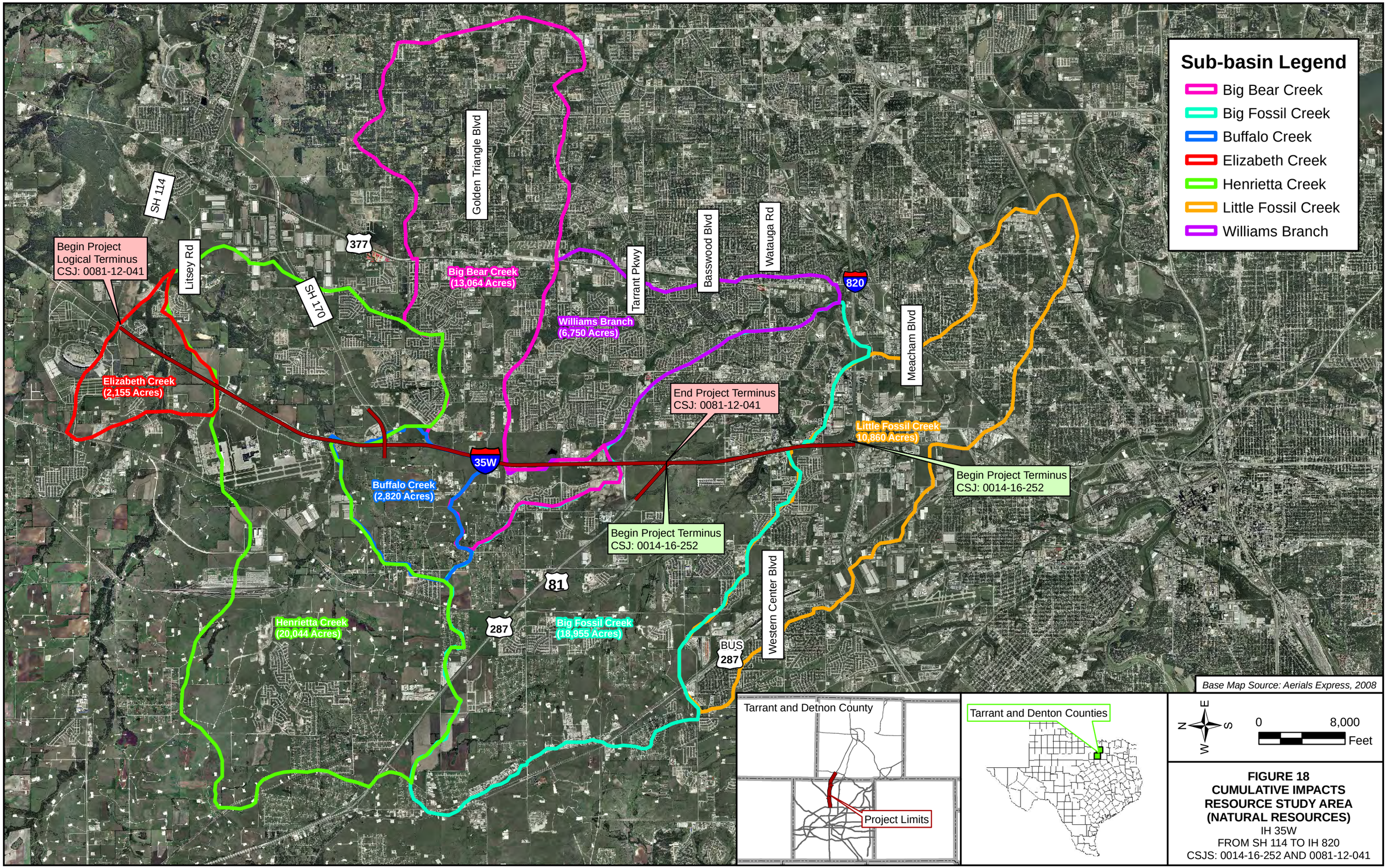
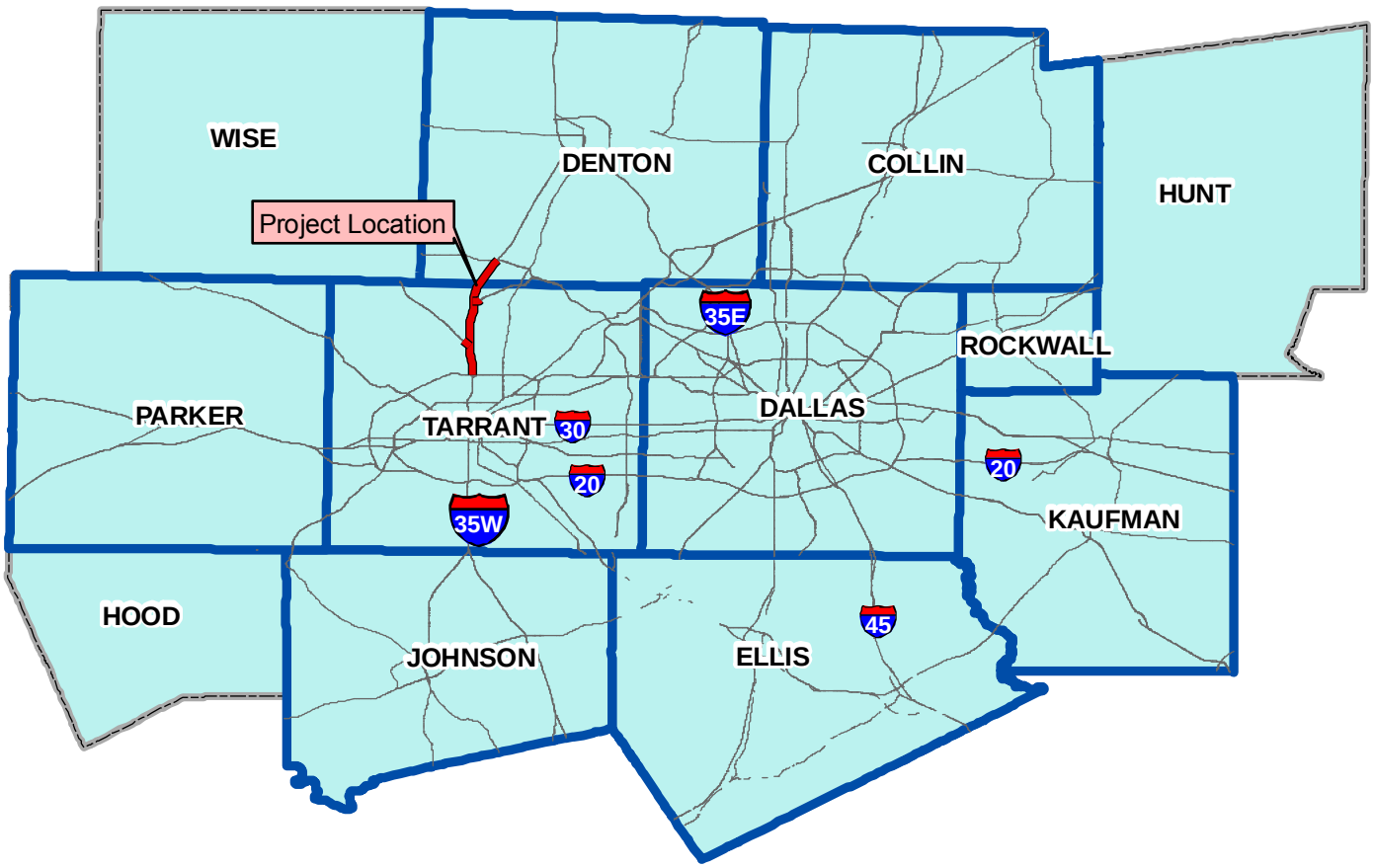
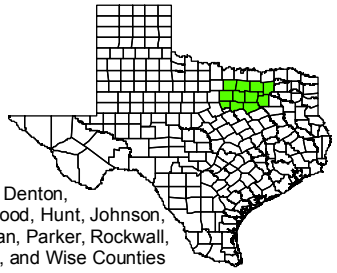


FIGURE 18
CUMULATIVE IMPACTS RESOURCE STUDY AREA (NATURAL RESOURCES)
IH 35W
FROM SH 114 TO IH 820
CSJS: 0014-16-252 AND 0081-12-041



LEGEND

- CO RSA
- Ozone – D/FW 8-hour Non-attainment Area
- MSAT – Affected Transportation Network



Collin, Dallas, Denton, Ellis, Hood, Hunt, Johnson, Kaufman, Parker, Rockwall, Tarrant, and Wise Counties

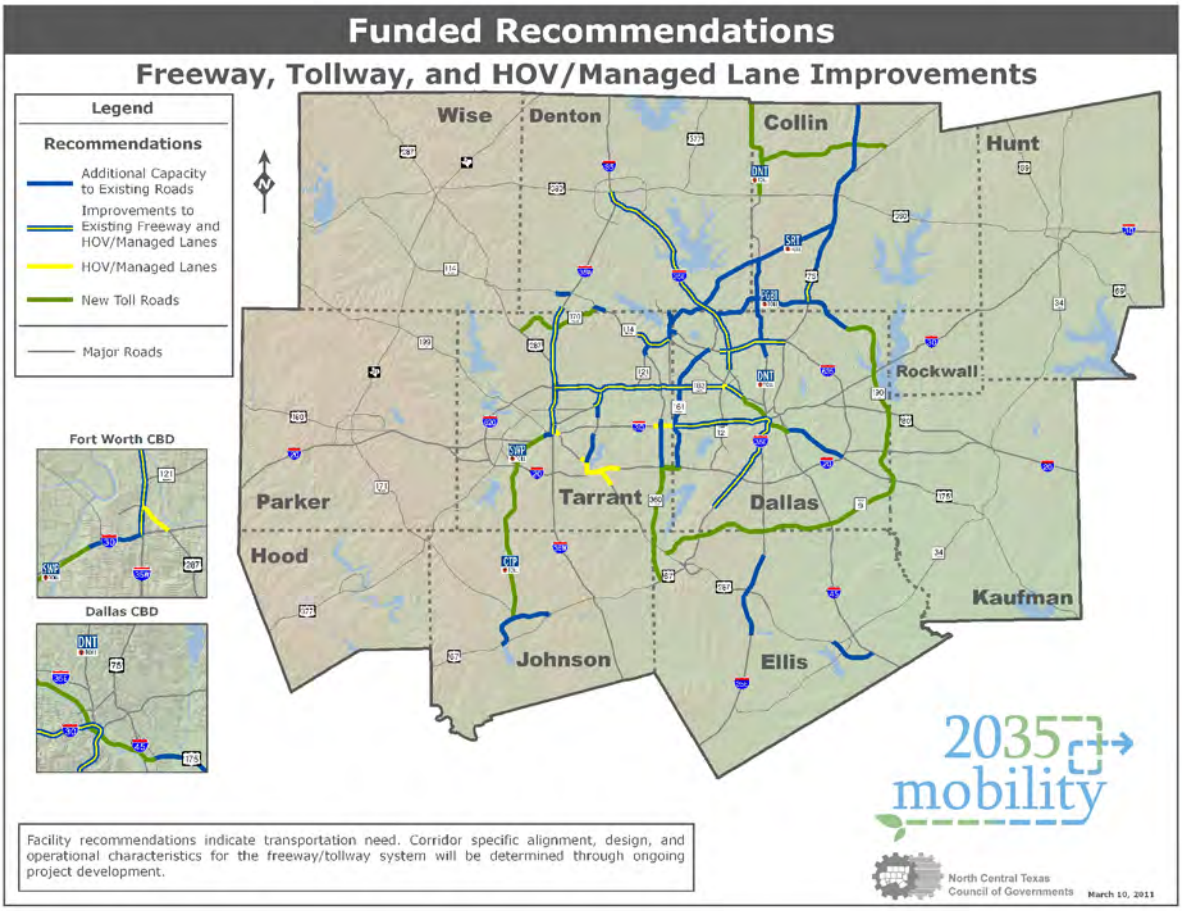
N
W E
S

NOT TO SCALE

FIGURE 19
CUMULATIVE IMPACTS RESOURCE STUDY AREA (AIR QUALITY)

IH 35W
FROM SH 114 TO IH 820

CSJs: 0014-16-252 AND 0081-12-041



Regional Tolling Analysis

for the Dallas-Fort Worth Metropolitan Planning Area based on Mobility 2035

FIGURE 20

***Mobility 2035*: Funded Roadway Recommendations for Controlled Access Facilities**

North Central Texas Council of Governments *Date Created: January 2012*

Source: NCTCOG, 2011

Appendix A
Wetland Data Forms

WETLAND DETERMINATION DATA FORM – Great Plains Region

Project/Site: IH 35W (North) - Area Crossing 4: Henrietta Creek City/County: Fort Worth, Tarrant County Sampling Date: 2/25/2009

Applicant/Owner: TxDOT State: TX Sampling Point: 1

Investigator(s): ARC, MB Section, Township, Range: Not applicable

Landform (hillslope, terrace, etc.): Hillslope Local relief (concave, convex, none): Convex Slope (%): Not available

Subregion (LRR): J Lat: 32.975101 Long: - 97.309227 Datum: WGS84

Soil Map Unit Name: Chatt silty clay, 1 to 3 percent slopes NWI Classification: U - Upland

Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No ____ (If no, explain in Remarks.)

Are Vegetation ____ , Soil ____ , or Hydrology ____ Significantly disturbed? Are "Normal Circumstances" present? Yes X No ____

Are Vegetation ____ , Soil ____ , or Hydrology ____ Naturally problematic? (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes ____	No X	Is the Sampled Area
Hydric Soil Present?	Yes ____	No X	Within a Wetland? Yes ____ No X
Wetland Hydrology Present?	Yes ____	No X	

Remarks: Sampling location does not meet any of the three wetland criteria.

VEGETATION – Use scientific names of plants.

Tree Stratum (Plot size: ____)	Absolute% Cover	Dominant Species?	Indicator Status
1.			
2.			
3.			
4.			
	0 = % Total Cover		
Sapling/Shrub Stratum (Plot size: ____)			
1.			
2.			
3.			
4.			
5.			
	0 = % Total Cover		
Herb Stratum (Plot size: 5' radius)			
1. *Sorghum halapense*	30	X	FACU
2. *Cynodon dactylon*	30	X	FACU+
3. *Allium canadense*	5		FACU-
4. *Oxalis dillenii*	5		UPL
5. *Geranium carolinianum*	5		UPL
6. *Sinapis arvensis*	5		UPL
7. *Taraxacum officinale*	5		FACU+
8.			
9.			
10.			
	85 = % Total Cover		
Woody Vine Stratum (Plot size: ____)			
1.			
2.			
	0 = % Total Cover		

% Bare Ground in Herb Stratum 15

Dominance Test worksheet:

Number of Dominant Species That Are OBL, FACW, or FAC (excluding FAC-): 0 (A)

Total Number of Dominant Species Across All Strata: 2 (B)

Percent of Dominant Species That Are OBL, FACW, or FAC: 0 (A/B)

Prevalence Index worksheet:

Total % Cover of:			Multiply by:
OBL species	0	x 1 =	0
FACW species	0	x 2 =	0
FAC species	0	x 3 =	0
FACU species	70	x 4 =	280
UPL species	15	x 5 =	75
Column Totals:	85 (A)		355 (B)

Prevalence Index = B/A = 355/85 (4.18)

Hydrophytic Vegetation Indicators:

___ Dominance Test is >50%

___ Prevalence Index is ≤3.0[1]

___ Morphological Adaptations[1] (Provide supporting data in Remarks or on separate sheet)

___ Problematic Hydrophytic Vegetation[1] (Explain)

[1]Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.

Hydrophytic Vegetation Present? **Yes** ____ **No** X

Remarks: Vegetation does not meet hydrophytic vegetation criterion.

SOIL

Sampling Point: 1

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)

Depth (inches)	Matrix Color (moist)	Matrix %	Redox Features Color (moist)	Redox %	Type[1]	Loc[2]	Texture	Remarks
0-16	7.5YR 4/3	100					Clay	

[1]Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. [2]Location: PL=Pore Lining, M=Matrix.

Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)

- ____ Histols (A1)
- ____ Histic Epipedon (A2)
- ____ Black Histic (A3)
- ____ Hydrogen Sulfide (A4)
- ____ Stratified Layers (A5) (**LRR F**)
- ____ 1 cm Muck (A9) (**LRR F, G, H**)
- ____ Depleted Below Dark Surface (A11)
- ____ Thick Dark Surface (A12)
- ____ Sandy Mucky Mineral (S1)
- ____ 2.5 cm Mucky Peat or Peat (S2) (**LRR G, H**)
- ____ 5 cm Mucky Peat or Peat (S3) (**LRR F**)
- ____ Sandy Gleyed Matrix (S4)
- ____ Sandy Redox (S5)
- ____ Stripped Matrix (S6)
- ____ Loamy Mucky Mineral (F1)
- ____ Loamy Gleyed Matrix (F2)
- ____ Depleted Matrix (F3)
- ____ Redox Dark Surface (F6)
- ____ Depleted Dark Surface (F7)
- ____ Redox Depressions (F8)
- ____ High Plains Depressions (F16) (**MLRA 72 & 73 of LRR H**)

Indicators for Problematic Hydric Soils[3]:

- ____ 1 cm Muck (A9) (**LRR 1, J**)
- ____ Coast Prairie Redox (A16) (**LRR F, G, H**)
- ____ Dark Surface (S7) (**LRR G**)
- ____ High Plains Depressions (F16) (**LRR H outside of MLRA 72 & 73**)
- ____ Reduced Vertic (F18)
- ____ Red Parent Material (TF2)
- ____ Other (Explain in Remarks)

[3]Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic

Restrictive Layer (if present):

Type: ____

Depth (inches): ____

Hydric Soil Present? **Yes** ____ **No** X

Remarks: Hydric soil indicators were not observed.

HYDROLOGY

Wetland Hydrology Indicators:

Primary Indicators (minimum of one required; check all that apply)

- ____ Surface Water (A1)
- ____ High Water Table (A2)
- ____ Saturation (A3)
- ____ Water Marks (B1)
- ____ Sediment Deposits (B2)
- ____ Drift Deposits (B3)
- ____ Agal Mat or Crust (B4)
- ____ Iron Deposits (B5)
- ____ Inundation Visible on Aerial Imagery (B7)
- ____ Water-Stained Leaves (B9)
- ____ Salt Crust (B11)
- ____ Aquatic Invertebrates (B13)
- ____ Hydrogen Sulfide Odor (C1)
- ____ Dry-Season Water Table (C2)
- ____ Oxidized Rhizospheres on Living Roots (C3) (**where not tilled**)
- ____ Presence of Reduced Iron (C4)
- ____ Thin Muck Surface (C7)
- ____ Other (Explain in Remarks)

Secondary Indictors (minimum of two required)

- ____ Surface Soil Cracks (B6)
- ____ Sparsely Vegetated Concave Surface (B8)
- ____ Drainage Patterns (B10)
- ____ Oxidized Rhizospheres on Living Roots (C3) (**where tilled**)
- ____ Crayfish burrows (C8)
- ____ Saturation Visible on Aerial Imagery (C9)
- ____ Geomorphic Position (D2)
- ____ FAC-Neutral Test (D5)
- ____ Frost-Heave Hummocks (D7) (**LRR F**)

Field Observations:

Surface Water Present? Yes ____ No X Depth (inches): NA

Water Table Present? Yes ____ No X Depth (inches): NA

Saturation Present? (includes capillary fringe) Yes ____ No X Depth (inches): NA

Wetland Hydrology Present? **Yes** ____ **No** X

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks: No primary or secondary hydrology indicators were present.

WETLAND DETERMINATION DATA FORM – Great Plains Region

Project/Site: IH 35W (North) - Area Crossing 4: Henrietta Creek City/County: Fort Worth, Tarrant County Sampling Date: 2/25/2009

Applicant/Owner: TxDOT State: TX Sampling Point: 2

Investigator(s): ARC, MB Section, Township, Range: Not applicable

Landform (hillslope, terrace, etc.): Terrace Local relief (concave, convex, none): Convex Slope (%): Not available

Subregion (LRR): J Lat: 32.97497 Long: - 97.309192 Datum: WGS84

Soil Map Unit Name: Frio silty clay, frequently flooded NWI Classification: PEM1 - Palustrine, Emergent, Persistent

Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No ____ (If no, explain in Remarks.)

Are Vegetation ____ , Soil ____ , or Hydrology ____ Significantly disturbed? Are "Normal Circumstances" present? Yes X No ____

Are Vegetation ____ , Soil ____ , or Hydrology ____ Naturally problematic? (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes X	No ____	Is the Sampled Area	
Hydric Soil Present?	Yes X	No ____	Within a Wetland?	Yes X No ____
Wetland Hydrology Present?	Yes X	No ____		

Remarks: Sampling location meets all three of the wetland criteria.

VEGETATION – Use scientific names of plants.

Tree Stratum (Plot size: ____)	Absolute% Cover	Dominant Species?	Indicator Status
1.			
2.			
3.			
4.			
	0 = % Total Cover		
Sapling/Shrub Stratum (Plot size: ____)			
1.			
2.			
3.			
4.			
5.			
	0 = % Total Cover		
Herb Stratum (Plot size: 5' radius)			
1. *Typha domingensis*	30	X	OBL
2. *Eleocharis montevidensis*	30	X	FACW+
3. *Ranunculus sceleratus*	10		OBL
4. *Rumex crispus*	10		FACW
5. *Justicia americana*	5		OBL
6.			
7.			
8.			
9.			
10.			
	85 = % Total Cover		
Woody Vine Stratum (Plot size: ____)			
1.			
2.			
	0 = % Total Cover		

% Bare Ground in Herb Stratum 15

Dominance Test worksheet:

Number of Dominant Species That Are OBL, FACW, or FAC (excluding FAC-): 2 (A)

Total Number of Dominant Species Across All Strata: 2 (B)

Percent of Dominant Species That Are OBL, FACW, or FAC: 100 (A/B)

Prevalence Index worksheet:

Total % Cover of:		Multiply by:
OBL species	____	x 1 = ____
FACW species	____	x 2 = ____
FAC species	____	x 3 = ____
FACU species	____	x 4 = ____
UPL species	____	x 5 = ____
Column Totals:	____ (A)	____ (B)

Prevalence Index = B/A = ____

Hydrophytic Vegetation Indicators:

X Dominance Test is >50%

___ Prevalence Index is ≤3.0[1]

___ Morphological Adaptations[1] (Provide supporting data in Remarks or on separate sheet)

___ Problematic Hydrophytic Vegetation[1] (Explain)

[1]Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.

Hydrophytic Vegetation Present? **Yes** X **No** ____

Remarks: Vegetation meets hydrophytic vegetation criterion.

SOIL

Sampling Point: 2

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)

Depth (inches)	Matrix Color (moist)	Matrix %	Redox Features Color (moist)	Redox %	Type[1]	Loc[2]	Texture	Remarks
0-16	10YR 3/2	80	10YR 4/1	20	D	M	Clay	

[1]Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. [2]Location: PL=Pore Lining, M=Matrix.

Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)

- ____ Histols (A1)
- ____ Histic Epipedon (A2)
- ____ Black Histic (A3)
- ____ Hydrogen Sulfide (A4)
- ____ Stratified Layers (A5) (**LRR F**)
- ____ 1 cm Muck (A9) (**LRR F, G, H**)
- ____ Depleted Below Dark Surface (A11)
- ____ Thick Dark Surface (A12)
- ____ Sandy Mucky Mineral (S1)
- ____ 2.5 cm Mucky Peat or Peat (S2) (**LRR G, H**)
- ____ 5 cm Mucky Peat or Peat (S3) (**LRR F**)
- ____ Sandy Gleyed Matrix (S4)
- ____ Sandy Redox (S5)
- ____ Stripped Matrix (S6)
- ____ Loamy Mucky Mineral (F1)
- ____ Loamy Gleyed Matrix (F2)
- ____ Depleted Matrix (F3)
- ____ Redox Dark Surface (F6)
- X Depleted Dark Surface (F7)
- ____ Redox Depressions (F8)
- ____ High Plains Depressions (F16) (**MLRA 72 & 73 of LRR H**)

Indicators for Problematic Hydric Soils[3]:

- ____ 1 cm Muck (A9) (**LRR 1, J**)
- ____ Coast Prairie Redox (A16) (**LRR F, G, H**)
- ____ Dark Surface (S7) (**LRR G**)
- ____ High Plains Depressions (F16) (**LRR H outside of MLRA 72 & 73**)
- ____ Reduced Vertic (F18)
- ____ Red Parent Material (TF2)
- ____ Other (Explain in Remarks)

[3]Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic

Restrictive Layer (if present):

Type: ____

Depth (inches): ____

Hydric Soil Present? **Yes** X **No** ____

Remarks: Soils meet hydric soil criterion.

HYDROLOGY

Wetland Hydrology Indicators:

Primary Indicators (minimum of one required; check all that apply)

- ____ Surface Water (A1)
- ____ High Water Table (A2)
- X Saturation (A3)
- X Water Marks (B1)
- X Sediment Deposits (B2)
- ____ Drift Deposits (B3)
- ____ Agal Mat or Crust (B4)
- ____ Iron Deposits (B5)
- ____ Inundation Visible on Aerial Imagery (B7)
- ____ Water-Stained Leaves (B9)
- ____ Salt Crust (B11)
- ____ Aquatic Invertebrates (B13)
- ____ Hydrogen Sulfide Odor (C1)
- ____ Dry-Season Water Table (C2)
- ____ Oxidized Rhizospheres on Living Roots (C3) (**where not tilled**)
- ____ Presence of Reduced Iron (C4)
- ____ Thin Muck Surface (C7)
- ____ Other (Explain in Remarks)

Secondary Indictors (minimum of two required)

- ____ Surface Soil Cracks (B6)
- ____ Sparsely Vegetated Concave Surface (B8)
- ____ Drainage Patterns (B10)
- ____ Oxidized Rhizospheres on Living Roots (C3) (**where tilled**)
- ____ Crayfish burrows (C8)
- ____ Saturation Visible on Aerial Imagery (C9)
- ____ Geomorphic Position (D2)
- X FAC-Neutral Test (D5)
- ____ Frost-Heave Hummocks (D7) (**LRR F**)

Field Observations:

Surface Water Present? Yes ____ No X Depth (inches): NA

Water Table Present? Yes ____ No X Depth (inches): NA

Saturation Present? (includes capillary fringe) Yes X No ____ Depth (inches): 0

Wetland Hydrology Present? **Yes** X **No** ____

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks: Hydrology criterion met.

WETLAND DETERMINATION DATA FORM – Great Plains Region

Project/Site: IH 35W (North) - Area Crossing 5: Buffalo Creek City/County: Haslet, Tarrant County Sampling Date: 2/25/2009

Applicant/Owner: TxDOT State: TX Sampling Point: 3

Investigator(s): ARC, MB Section, Township, Range: Not applicable

Landform (hillslope, terrace, etc.): Terrace Local relief (concave, convex, none): Convex Slope (%): Not available

Subregion (LRR): J Lat: 32.970533 Long: - 97.310114 Datum: WGS84

Soil Map Unit Name: Frio silty clay, frequently flooded NWI Classification: PEM1 - Palustrine, Emergent, Persistent

Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No ____ (If no, explain in Remarks.)

Are Vegetation ____ , Soil ____ , or Hydrology ____ Significantly disturbed? Are "Normal Circumstances" present? Yes X No ____

Are Vegetation ____ , Soil ____ , or Hydrology ____ Naturally problematic? (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes X	No ____	Is the Sampled Area Within a Wetland?	Yes X No ____
Hydric Soil Present?	Yes X	No ____		
Wetland Hydrology Present?	Yes X	No ____		

Remarks: Sampling location meets all three of the wetland criteria.

VEGETATION – Use scientific names of plants.

Tree Stratum (Plot size: ____)	Absolute% Cover	Dominant Species?	Indicator Status
1.			
2.			
3.			
4.			
	0 = % Total Cover		
Sapling/Shrub Stratum (Plot size: ____)			
1.			
2.			
3.			
4.			
5.			
	0 = % Total Cover		
Herb Stratum (Plot size: 5' radius)			
1. *Eleocharis montevidensis*	40	X	FACW+
2. *Typha domingensis*	30	X	OBL
3. *Andropogon glomeratus*	5		FACW+
4. *Rumex crispus*	5		FACW
5.			
6.			
7.			
8.			
9.			
10.			
	80 = % Total Cover		
Woody Vine Stratum (Plot size: ____)			
1.			
2.			
	0 = % Total Cover		

% Bare Ground in Herb Stratum 20

Dominance Test worksheet:

Number of Dominant Species That Are OBL, FACW, or FAC (excluding FAC-): 2 (A)

Total Number of Dominant Species Across All Strata: 2 (B)

Percent of Dominant Species That Are OBL, FACW, or FAC: 100 (A/B)

Prevalence Index worksheet:

Total % Cover of:		Multiply by:
OBL species	____	x 1 = ____
FACW species	____	x 2 = ____
FAC species	____	x 3 = ____
FACU species	____	x 4 = ____
UPL species	____	x 5 = ____
Column Totals:	____ (A)	____ (B)

Prevalence Index = B/A = ____

Hydrophytic Vegetation Indicators:

X Dominance Test is >50%

___ Prevalence Index is ≤3.0[1]

___ Morphological Adaptations[1] (Provide supporting data in Remarks or on separate sheet)

___ Problematic Hydrophytic Vegetation[1] (Explain)

[1]Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.

Hydrophytic Vegetation Present? **Yes** X **No** ____

Remarks: Vegetation meets hydrophytic vegetation criterion.

SOIL

Sampling Point: 3

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)

Depth (inches)	Matrix Color (moist)	Matrix %	Redox Features Color (moist)	Redox %	Type[1]	Loc[2]	Texture	Remarks
0-16	7.5YR 3/1	90	2.5YR 4/3	10	C	M	Clay	

[1]Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. [2]Location: PL=Pore Lining, M=Matrix.

Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)

- ___ Histols (A1)
- ___ Histic Epipedon (A2)
- ___ Black Histic (A3)
- ___ Hydrogen Sulfide (A4)
- ___ Stratified Layers (A5) (**LRR F**)
- ___ 1 cm Muck (A9) (**LRR F, G, H**)
- ___ Depleted Below Dark Surface (A11)
- ___ Thick Dark Surface (A12)
- ___ Sandy Mucky Mineral (S1)
- ___ 2.5 cm Mucky Peat or Peat (S2) (**LRR G, H**)
- ___ 5 cm Mucky Peat or Peat (S3) (**LRR F**)
- ___ Sandy Gleyed Matrix (S4)
- ___ Sandy Redox (S5)
- ___ Stripped Matrix (S6)
- ___ Loamy Mucky Mineral (F1)
- ___ Loamy Gleyed Matrix (F2)
- ___ Depleted Matrix (F3)
- X Redox Dark Surface (F6)
- ___ Depleted Dark Surface (F7)
- ___ Redox Depressions (F8)
- ___ High Plains Depressions (F16) (**MLRA 72 & 73 of LRR H**)

Indicators for Problematic Hydric Soils[3]:

- ___ 1 cm Muck (A9) (**LRR 1, J**)
- ___ Coast Prairie Redox (A16) (**LRR F, G, H**)
- ___ Dark Surface (S7) (**LRR G**)
- ___ High Plains Depressions (F16) (**LRR H outside of MLRA 72 & 73**)
- ___ Reduced Vertic (F18)
- ___ Red Parent Material (TF2)
- ___ Other (Explain in Remarks)

[3]Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic

Restrictive Layer (if present):

Type: ___

Depth (inches): ___

Hydric Soil Present? **Yes** X **No** ___

Remarks: Soils meet hydric soil criterion.

HYDROLOGY

Wetland Hydrology Indicators:

Primary Indicators (minimum of one required; check all that apply)

- ___ Surface Water (A1)
- ___ High Water Table (A2)
- X Saturation (A3)
- X Water Marks (B1)
- X Sediment Deposits (B2)
- ___ Drift Deposits (B3)
- X Agal Mat or Crust (B4)
- ___ Iron Deposits (B5)
- ___ Inundation Visible on Aerial Imagery (B7)
- ___ Water-Stained Leaves (B9)
- ___ Salt Crust (B11)
- ___ Aquatic Invertebrates (B13)
- ___ Hydrogen Sulfide Odor (C1)
- ___ Dry-Season Water Table (C2)
- ___ Oxidized Rhizospheres on Living Roots (C3) (**where not tilled**)
- ___ Presence of Reduced Iron (C4)
- ___ Thin Muck Surface (C7)
- ___ Other (Explain in Remarks)

Secondary Indictors (minimum of two required)

- ___ Surface Soil Cracks (B6)
- ___ Sparsely Vegetated Concave Surface (B8)
- ___ Drainage Patterns (B10)
- ___ Oxidized Rhizospheres on Living Roots (C3) (**where tilled**)
- ___ Crayfish burrows (C8)
- ___ Saturation Visible on Aerial Imagery (C9)
- ___ Geomorphic Position (D2)
- X FAC-Neutral Test (D5)
- ___ Frost-Heave Hummocks (D7) (**LRR F**)

Field Observations:

Surface Water Present? Yes ___ No X Depth (inches): NA

Water Table Present? Yes ___ No X Depth (inches): NA

Saturation Present? (includes capillary fringe) Yes X No ___ Depth (inches): 0

Wetland Hydrology Present? **Yes** X **No** ___

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks: Hydrology criterion met.

WETLAND DETERMINATION DATA FORM – Great Plains Region

Project/Site: IH 35W (North) - Area Crossing 5: Buffalo Creek City/County: Haslet, Tarrant County Sampling Date: 2/25/2009

Applicant/Owner: TxDOT State: TX Sampling Point: 4

Investigator(s): ARC, MB Section, Township, Range: Not applicable

Landform (hillslope, terrace, etc.): Hillslope Local relief (concave, convex, none): Convex Slope (%): Not available

Subregion (LRR): J Lat: 32.970674 Long: - 97.310098 Datum: WGS84

Soil Map Unit Name: Frio silty clay, frequently flooded NWI Classification: U - Upland

Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No ____ (If no, explain in Remarks.)

Are Vegetation ____ , Soil ____ , or Hydrology ____ Significantly disturbed? Are "Normal Circumstances" present? Yes X No ____

Are Vegetation ____ , Soil ____ , or Hydrology ____ Naturally problematic? (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes ____	No X	Is the Sampled Area Within a Wetland?	Yes ____ No X
Hydric Soil Present?	Yes ____	No X		
Wetland Hydrology Present?	Yes ____	No X		

Remarks: Sampling location does not meet any of the three wetland criteria.

VEGETATION – Use scientific names of plants.

Tree Stratum (Plot size: ____)	Absolute% Cover	Dominant Species?	Indicator Status
1.			
2.			
3.			
4.			
	0 = % Total Cover		
Sapling/Shrub Stratum (Plot size: ____)			
1.			
2.			
3.			
4.			
5.			
	0 = % Total Cover		
Herb Stratum (Plot size: 5' radius)			
1. *Sorghum halapense*	30	X	FACU
2. *Cynodon dactylon*	20	X	FACU+
3. *Chaerophyluum tainturieri*	5		FAC
4. *Lamium amplexicaule*	5		UPL
5. *Sinapis arvensis*	5		UPL
6. *Taraxacum officinale*	5		FACU+
7. *Solidago canadensis*	5		FACU+
8.			
9.			
10.			
	75 = % Total Cover		
Woody Vine Stratum (Plot size: ____)			
1.			
2.			
	0 = % Total Cover		

% Bare Ground in Herb Stratum 25

Dominance Test worksheet:

Number of Dominant Species That Are OBL, FACW, or FAC (excluding FAC-): 0 (A)

Total Number of Dominant Species Across All Strata: 2 (B)

Percent of Dominant Species That Are OBL, FACW, or FAC: 0 (A/B)

Prevalence Index worksheet:

Total % Cover of:			Multiply by:
OBL species	0	x 1 =	0
FACW species	0	x 2 =	0
FAC species	5	x 3 =	15
FACU species	60	x 4 =	240
UPL species	10	x 5 =	50
Column Totals:	75 (A)		305 (B)

Prevalence Index = B/A = 305/75 (4.07)

Hydrophytic Vegetation Indicators:

___ Dominance Test is >50%

___ Prevalence Index is ≤3.0[1]

___ Morphological Adaptations[1] (Provide supporting data in Remarks or on separate sheet)

___ Problematic Hydrophytic Vegetation[1] (Explain)

[1]Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.

Hydrophytic Vegetation Present? **Yes** ____ **No** X

Remarks: Vegetation does not meet hydrophytic vegetation criterion.

SOIL

Sampling Point: 4

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)

Depth (inches)	Matrix Color (moist)	Matrix %	Redox Features Color (moist)	Redox %	Type[1]	Loc[2]	Texture	Remarks
0-16	7.5YR 4/2	100						

[1]Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. [2]Location: PL=Pore Lining, M=Matrix.

Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)

- ____ Histols (A1)
- ____ Histic Epipedon (A2)
- ____ Black Histic (A3)
- ____ Hydrogen Sulfide (A4)
- ____ Stratified Layers (A5) (**LRR F**)
- ____ 1 cm Muck (A9) (**LRR F, G, H**)
- ____ Depleted Below Dark Surface (A11)
- ____ Thick Dark Surface (A12)
- ____ Sandy Mucky Mineral (S1)
- ____ 2.5 cm Mucky Peat or Peat (S2) (**LRR G, H**)
- ____ 5 cm Mucky Peat or Peat (S3) (**LRR F**)
- ____ Sandy Gleyed Matrix (S4)
- ____ Sandy Redox (S5)
- ____ Stripped Matrix (S6)
- ____ Loamy Mucky Mineral (F1)
- ____ Loamy Gleyed Matrix (F2)
- ____ Depleted Matrix (F3)
- ____ Redox Dark Surface (F6)
- ____ Depleted Dark Surface (F7)
- ____ Redox Depressions (F8)
- ____ High Plains Depressions (F16) (**MLRA 72 & 73 of LRR H**)

Indicators for Problematic Hydric Soils[3]:

- ____ 1 cm Muck (A9) (**LRR 1, J**)
- ____ Coast Prairie Redox (A16) (**LRR F, G, H**)
- ____ Dark Surface (S7) (**LRR G**)
- ____ High Plains Depressions (F16) (**LRR H outside of MLRA 72 & 73**)
- ____ Reduced Vertic (F18)
- ____ Red Parent Material (TF2)
- ____ Other (Explain in Remarks)

[3]Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic

Restrictive Layer (if present):

Type: ____

Depth (inches): ____

Hydric Soil Present? **Yes** ____ **No** X

Remarks: Hydric soil indicators were not observed.

HYDROLOGY

Wetland Hydrology Indicators:

Primary Indicators (minimum of one required; check all that apply)

- ____ Surface Water (A1)
- ____ High Water Table (A2)
- ____ Saturation (A3)
- ____ Water Marks (B1)
- ____ Sediment Deposits (B2)
- ____ Drift Deposits (B3)
- ____ Agal Mat or Crust (B4)
- ____ Iron Deposits (B5)
- ____ Inundation Visible on Aerial Imagery (B7)
- ____ Water-Stained Leaves (B9)
- ____ Salt Crust (B11)
- ____ Aquatic Invertebrates (B13)
- ____ Hydrogen Sulfide Odor (C1)
- ____ Dry-Season Water Table (C2)
- ____ Oxidized Rhizospheres on Living Roots (C3) (**where not tilled**)
- ____ Presence of Reduced Iron (C4)
- ____ Thin Muck Surface (C7)
- ____ Other (Explain in Remarks)

Secondary Indictors (minimum of two required)

- ____ Surface Soil Cracks (B6)
- ____ Sparsely Vegetated Concave Surface (B8)
- ____ Drainage Patterns (B10)
- ____ Oxidized Rhizospheres on Living Roots (C3) (**where tilled**)
- ____ Crayfish burrows (C8)
- ____ Saturation Visible on Aerial Imagery (C9)
- ____ Geomorphic Position (D2)
- ____ FAC-Neutral Test (D5)
- ____ Frost-Heave Hummocks (D7) (**LRR F**)

Field Observations:

Surface Water Present? Yes ____ No X Depth (inches): NA

Water Table Present? Yes ____ No X Depth (inches): NA

Saturation Present? (includes capillary fringe) Yes ____ No X Depth (inches): NA

Wetland Hydrology Present? **Yes** ____ **No** X

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks: No primary or secondary hydrology indicators were present.

WETLAND DETERMINATION DATA FORM – Great Plains Region

Project/Site: IH 35W (North) - Area Crossing 6: unnamed tributary to Buffalo Creek City/County: Haslet, Tarrant County Sampling Date: 2/25/2009

Applicant/Owner: TxDOT State: TX Sampling Point: 5

Investigator(s): ARC, MB Section, Township, Range: Not applicable

Landform (hillslope, terrace, etc.): Hillslope Local relief (concave, convex, none): Convex Slope (%): Not available

Subregion (LRR): J Lat: 32.96062 Long: - 97.311867 Datum: WGS84

Soil Map Unit Name: Sanger clay, 3 to 5 percent slopes NWI Classification: U - Upland

Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No ____ (If no, explain in Remarks.)

Are Vegetation ____ , Soil ____ , or Hydrology ____ Significantly disturbed? Are "Normal Circumstances" present? Yes X No ____

Are Vegetation ____ , Soil ____ , or Hydrology ____ Naturally problematic? (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes ____	No X	Is the Sampled Area Within a Wetland?	Yes ____ No X
Hydric Soil Present?	Yes ____	No X		
Wetland Hydrology Present?	Yes ____	No X		

Remarks: Sampling location does not meet any of the three wetland criteria.

VEGETATION – Use scientific names of plants.

Tree Stratum (Plot size: ____)	Absolute% Cover	Dominant Species?	Indicator Status
1.			
2.			
3.			
4.			
	0 = % Total Cover		
Sapling/Shrub Stratum (Plot size: ____)			
1.			
2.			
3.			
4.			
5.			
	0 = % Total Cover		
Herb Stratum (Plot size: 5' radius)			
1. *Cynodon dactylon*	30	X	FACU+
2. *Sorghum halapense*	20	X	FAC
3. *Solidago canadensis*	10		FACU+
4. *Galium aparine*	5		FAC-
5. *Carduus nutans*	5		UPL
6. *Chaerophyllum tainturieri*	5		FAC
7. *Ambrosia trifida*	5		FAC
8.			
9.			
10.			
	80 = % Total Cover		
Woody Vine Stratum (Plot size: ____)			
1.			
2.			
	0 = % Total Cover		

% Bare Ground in Herb Stratum 20

Dominance Test worksheet:

Number of Dominant Species That Are OBL, FACW, or FAC (excluding FAC-): 1 (A)

Total Number of Dominant Species Across All Strata: 2 (B)

Percent of Dominant Species That Are OBL, FACW, or FAC: 50 (A/B)

Prevalence Index worksheet:

Total % Cover of:			Multiply by:
OBL species	0	x 1 =	0
FACW species	0	x 2 =	0
FAC species	35	x 3 =	105
FACU species	40	x 4 =	160
UPL species	5	x 5 =	25
Column Totals:	80 (A)		290 (B)

Prevalence Index = B/A = 290/80 (3.63)

Hydrophytic Vegetation Indicators:

___ Dominance Test is >50%

___ Prevalence Index is ≤3.0[1]

___ Morphological Adaptations[1] (Provide supporting data in Remarks or on separate sheet)

___ Problematic Hydrophytic Vegetation[1] (Explain)

[1]Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.

Hydrophytic Vegetation Present? **Yes** ____ **No** X

Remarks: Vegetation does not meet hydrophytic vegetation criterion.

SOIL

Sampling Point: 5

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)

Depth (inches)	Matrix Color (moist)	Matrix %	Redox Features Color (moist)	Redox %	Type[1]	Loc[2]	Texture	Remarks
0-16	10YR 4/2	100					Clay	

[1]Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. [2]Location: PL=Pore Lining, M=Matrix.

Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)

- ____ Histols (A1)
- ____ Histic Epipedon (A2)
- ____ Black Histic (A3)
- ____ Hydrogen Sulfide (A4)
- ____ Stratified Layers (A5) (**LRR F**)
- ____ 1 cm Muck (A9) (**LRR F, G, H**)
- ____ Depleted Below Dark Surface (A11)
- ____ Thick Dark Surface (A12)
- ____ Sandy Mucky Mineral (S1)
- ____ 2.5 cm Mucky Peat or Peat (S2) (**LRR G, H**)
- ____ 5 cm Mucky Peat or Peat (S3) (**LRR F**)
- ____ Sandy Gleyed Matrix (S4)
- ____ Sandy Redox (S5)
- ____ Stripped Matrix (S6)
- ____ Loamy Mucky Mineral (F1)
- ____ Loamy Gleyed Matrix (F2)
- ____ Depleted Matrix (F3)
- ____ Redox Dark Surface (F6)
- ____ Depleted Dark Surface (F7)
- ____ Redox Depressions (F8)
- ____ High Plains Depressions (F16) (**MLRA 72 & 73 of LRR H**)

Indicators for Problematic Hydric Soils[3]:

- ____ 1 cm Muck (A9) (**LRR 1, J**)
- ____ Coast Prairie Redox (A16) (**LRR F, G, H**)
- ____ Dark Surface (S7) (**LRR G**)
- ____ High Plains Depressions (F16) (**LRR H outside of MLRA 72 & 73**)
- ____ Reduced Vertic (F18)
- ____ Red Parent Material (TF2)
- ____ Other (Explain in Remarks)

[3]Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic

Restrictive Layer (if present):

Type: ____

Depth (inches): ____

Hydric Soil Present? **Yes** ____ **No** X

Remarks: Hydric soil indicators were not observed.

HYDROLOGY

Wetland Hydrology Indicators:

Primary Indicators (minimum of one required; check all that apply)

- ____ Surface Water (A1)
- ____ High Water Table (A2)
- ____ Saturation (A3)
- ____ Water Marks (B1)
- ____ Sediment Deposits (B2)
- ____ Drift Deposits (B3)
- ____ Agal Mat or Crust (B4)
- ____ Iron Deposits (B5)
- ____ Inundation Visible on Aerial Imagery (B7)
- ____ Water-Stained Leaves (B9)
- ____ Salt Crust (B11)
- ____ Aquatic Invertebrates (B13)
- ____ Hydrogen Sulfide Odor (C1)
- ____ Dry-Season Water Table (C2)
- ____ Oxidized Rhizospheres on Living Roots (C3) (**where not tilled**)
- ____ Presence of Reduced Iron (C4)
- ____ Thin Muck Surface (C7)
- ____ Other (Explain in Remarks)

Secondary Indictors (minimum of two required)

- ____ Surface Soil Cracks (B6)
- ____ Sparsely Vegetated Concave Surface (B8)
- ____ Drainage Patterns (B10)
- ____ Oxidized Rhizospheres on Living Roots (C3) (**where tilled**)
- ____ Crayfish burrows (C8)
- ____ Saturation Visible on Aerial Imagery (C9)
- ____ Geomorphic Position (D2)
- ____ FAC-Neutral Test (D5)
- ____ Frost-Heave Hummocks (D7) (**LRR F**)

Field Observations:

Surface Water Present? Yes ____ No X Depth (inches): NA

Water Table Present? Yes ____ No X Depth (inches): NA

Saturation Present? (includes capillary fringe) Yes ____ No X Depth (inches): NA

Wetland Hydrology Present? **Yes** ____ **No** X

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks: No primary or secondary hydrology indicators were present.

WETLAND DETERMINATION DATA FORM – Great Plains Region

Project/Site: IH 35W (North) - Area Crossing 7: unnamed tributary to Buffalo Creek City/County: Tarrant County Sampling Date: 2/25/2009

Applicant/Owner: TxDOT State: TX Sampling Point: 6

Investigator(s): ARC, MB Section, Township, Range: Not applicable

Landform (hillslope, terrace, etc.): Hillslope Local relief (concave, convex, none): Convex Slope (%): Not available

Subregion (LRR): J Lat: 32.950427 Long: - 97.311235 Datum: WGS84

Soil Map Unit Name: Medlin clay, 5 to 15 percent slopes NWI Classification: U - Upland

Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No ____ (If no, explain in Remarks.)

Are Vegetation ____ , Soil ____ , or Hydrology ____ Significantly disturbed? Are "Normal Circumstances" present? Yes X No ____

Are Vegetation ____ , Soil ____ , or Hydrology ____ Naturally problematic? (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes ____	No X	Is the Sampled Area Within a Wetland?	Yes ____ No X
Hydric Soil Present?	Yes ____	No X		
Wetland Hydrology Present?	Yes ____	No X		

Remarks: Sampling location does not meet any of the three wetland criteria.

VEGETATION – Use scientific names of plants.

Tree Stratum (Plot size: ____)	Absolute% Cover	Dominant Species?	Indicator Status
1.			
2.			
3.			
4.			
	0 = % Total Cover		
Sapling/Shrub Stratum (Plot size: ____)			
1.			
2.			
3.			
4.			
5.			
	0 = % Total Cover		
Herb Stratum (Plot size: 5' radius)			
1. *Cynodon dactylon*	35	X	FACU+
2. *Amphiachyris dracunculoides*	20	X	UPL
3. *Oxalis dillenii*	5		UPL
4. *Lolium perenne*	5		FACU
5. *Ambrosia psilostachya*	5		FAC-
6. *Sorghum halapense*	5		FAC
7.			
8.			
9.			
10.			
	75 = % Total Cover		
Woody Vine Stratum (Plot size: ____)			
1.			
2.			
	0 = % Total Cover		

% Bare Ground in Herb Stratum 25

Dominance Test worksheet:

Number of Dominant Species That Are OBL, FACW, or FAC (excluding FAC-): 0 (A)

Total Number of Dominant Species Across All Strata: 2 (B)

Percent of Dominant Species That Are OBL, FACW, or FAC: 0 (A/B)

Prevalence Index worksheet:

Total % Cover of:			Multiply by:
OBL species	0	x 1 =	0
FACW species	0	x 2 =	0
FAC species	10	x 3 =	30
FACU species	40	x 4 =	160
UPL species	25	x 5 =	125
Column Totals:	75 (A)		315 (B)

Prevalence Index = B/A = 315/75 (4.2)

Hydrophytic Vegetation Indicators:

___ Dominance Test is >50%

___ Prevalence Index is ≤3.0[1]

___ Morphological Adaptations[1] (Provide supporting data in Remarks or on separate sheet)

___ Problematic Hydrophytic Vegetation[1] (Explain)

[1]Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.

Hydrophytic Vegetation Present? **Yes** ____ **No** X

Remarks: Vegetation does not meet hydrophytic vegetation criterion.

SOIL

Sampling Point: 6

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)

Depth (inches)	Matrix Color (moist)	Matrix %	Redox Features Color (moist)	Redox %	Type[1]	Loc[2]	Texture	Remarks
0-16	7.5YR 4/2	100					Clay	

[1]Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. [2]Location: PL=Pore Lining, M=Matrix.

Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)

- ____ Histols (A1)
- ____ Histic Epipedon (A2)
- ____ Black Histic (A3)
- ____ Hydrogen Sulfide (A4)
- ____ Stratified Layers (A5) (**LRR F**)
- ____ 1 cm Muck (A9) (**LRR F, G, H**)
- ____ Depleted Below Dark Surface (A11)
- ____ Thick Dark Surface (A12)
- ____ Sandy Mucky Mineral (S1)
- ____ 2.5 cm Mucky Peat or Peat (S2) (**LRR G, H**)
- ____ 5 cm Mucky Peat or Peat (S3) (**LRR F**)
- ____ Sandy Gleyed Matrix (S4)
- ____ Sandy Redox (S5)
- ____ Stripped Matrix (S6)
- ____ Loamy Mucky Mineral (F1)
- ____ Loamy Gleyed Matrix (F2)
- ____ Depleted Matrix (F3)
- ____ Redox Dark Surface (F6)
- ____ Depleted Dark Surface (F7)
- ____ Redox Depressions (F8)
- ____ High Plains Depressions (F16) (**MLRA 72 & 73 of LRR H**)

Indicators for Problematic Hydric Soils[3]:

- ____ 1 cm Muck (A9) (**LRR 1, J**)
- ____ Coast Prairie Redox (A16) (**LRR F, G, H**)
- ____ Dark Surface (S7) (**LRR G**)
- ____ High Plains Depressions (F16) (**LRR H outside of MLRA 72 & 73**)
- ____ Reduced Vertic (F18)
- ____ Red Parent Material (TF2)
- ____ Other (Explain in Remarks)

[3]Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic

Restrictive Layer (if present):

Type: ____

Depth (inches): ____

Hydric Soil Present? **Yes** ____ **No** X

Remarks: Hydric soil indicators were not observed.

HYDROLOGY

Wetland Hydrology Indicators:

Primary Indicators (minimum of one required; check all that apply)

- ____ Surface Water (A1)
- ____ High Water Table (A2)
- ____ Saturation (A3)
- ____ Water Marks (B1)
- ____ Sediment Deposits (B2)
- ____ Drift Deposits (B3)
- ____ Agal Mat or Crust (B4)
- ____ Iron Deposits (B5)
- ____ Inundation Visible on Aerial Imagery (B7)
- ____ Water-Stained Leaves (B9)
- ____ Salt Crust (B11)
- ____ Aquatic Invertebrates (B13)
- ____ Hydrogen Sulfide Odor (C1)
- ____ Dry-Season Water Table (C2)
- ____ Oxidized Rhizospheres on Living Roots (C3) (**where not tilled**)
- ____ Presence of Reduced Iron (C4)
- ____ Thin Muck Surface (C7)
- ____ Other (Explain in Remarks)

Secondary Indictors (minimum of two required)

- ____ Surface Soil Cracks (B6)
- ____ Sparsely Vegetated Concave Surface (B8)
- ____ Drainage Patterns (B10)
- ____ Oxidized Rhizospheres on Living Roots (C3) (**where tilled**)
- ____ Crayfish burrows (C8)
- ____ Saturation Visible on Aerial Imagery (C9)
- ____ Geomorphic Position (D2)
- ____ FAC-Neutral Test (D5)
- ____ Frost-Heave Hummocks (D7) (**LRR F**)

Field Observations:

Surface Water Present? Yes ____ No X Depth (inches): NA

Water Table Present? Yes ____ No X Depth (inches): NA

Saturation Present? (includes capillary fringe) Yes ____ No X Depth (inches): NA

Wetland Hydrology Present? **Yes** ____ **No** X

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks: No primary or secondary hydrology indicators were present.

WETLAND DETERMINATION DATA FORM – Great Plains Region

Project/Site: IH 35W (North) - Area Crossing 8: unnamed tributary to Big Bear Creek City/County: Tarrant County Sampling Date: 2/25/2009

Applicant/Owner: TxDOT State: TX Sampling Point: 7

Investigator(s): ARC, MB Section, Township, Range: Not applicable

Landform (hillslope, terrace, etc.): Terrace Local relief (concave, convex, none): Convex Slope (%): Not available

Subregion (LRR): J Lat: 32.942983 Long: - 97.311712 Datum: WGS84

Soil Map Unit Name: San Saba clay, 0 to 2 percent slopes NWI Classification: PEM1 - Palustrine, Emergent, Persistent

Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No ____ (If no, explain in Remarks.)

Are Vegetation ____ , Soil ____ , or Hydrology ____ Significantly disturbed? Are "Normal Circumstances" present? Yes X No ____

Are Vegetation ____ , Soil ____ , or Hydrology ____ Naturally problematic? (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes X	No ____	Is the Sampled Area Within a Wetland?	Yes X No ____
Hydric Soil Present?	Yes X	No ____		
Wetland Hydrology Present?	Yes X	No ____		

Remarks: Sampling location meets all three of the wetland criteria.

VEGETATION – Use scientific names of plants.

Tree Stratum (Plot size: 5' x 10')	Absolute% Cover	Dominant Species?	Indicator Status
1. *Salix nigra*	10	X	FACW+
2.			
3.			
4.			
	10 = % Total Cover		
Sapling/Shrub Stratum (Plot size: ____)			
1.			
2.			
3.			
4.			
5.			
	0 = % Total Cover		
Herb Stratum (Plot size: 5' radius)			
1. *Typha domingensis*	20	X	OBL
2. *Eleocharis montevidensis*	10	X	FACW+
3. *Ambrosia trifida*	5		FAC
4.			
5.			
6.			
7.			
8.			
9.			
10.			
	35 = % Total Cover		
Woody Vine Stratum (Plot size: ____)			
1.			
2.			
	0 = % Total Cover		

% Bare Ground in Herb Stratum 65

Dominance Test worksheet:

Number of Dominant Species That Are OBL, FACW, or FAC (excluding FAC-): 3 (A)

Total Number of Dominant Species Across All Strata: 3 (B)

Percent of Dominant Species That Are OBL, FACW, or FAC: 100 (A/B)

Prevalence Index worksheet:

Total % Cover of:		Multiply by:
OBL species	____	x 1 = ____
FACW species	____	x 2 = ____
FAC species	____	x 3 = ____
FACU species	____	x 4 = ____
UPL species	____	x 5 = ____
Column Totals:	____ (A)	____ (B)

Prevalence Index = B/A = ____

Hydrophytic Vegetation Indicators:

X Dominance Test is >50%

___ Prevalence Index is ≤3.0[1]

___ Morphological Adaptations[1] (Provide supporting data in Remarks or on separate sheet)

___ Problematic Hydrophytic Vegetation[1] (Explain)

[1]Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.

Hydrophytic Vegetation Present? **Yes** X **No** ____

Remarks: Vegetation meets hydrophytic vegetation criterion.

SOIL

Sampling Point: 7

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)

Depth (inches)	Matrix Color (moist)	Matrix %	Redox Features Color (moist)	Redox %	Type[1]	Loc[2]	Texture	Remarks
0-16	7.5YR 3/1	95	2.5YR 4/6	5	C	M	Clay	

[1]Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. [2]Location: PL=Pore Lining, M=Matrix.

Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)

- ___ Histols (A1)
- ___ Histic Epipedon (A2)
- ___ Black Histic (A3)
- ___ Hydrogen Sulfide (A4)
- ___ Stratified Layers (A5) (**LRR F**)
- ___ 1 cm Muck (A9) (**LRR F, G, H**)
- ___ Depleted Below Dark Surface (A11)
- ___ Thick Dark Surface (A12)
- ___ Sandy Mucky Mineral (S1)
- ___ 2.5 cm Mucky Peat or Peat (S2) (**LRR G, H**)
- ___ 5 cm Mucky Peat or Peat (S3) (**LRR F**)
- ___ Sandy Gleyed Matrix (S4)
- ___ Sandy Redox (S5)
- ___ Stripped Matrix (S6)
- ___ Loamy Mucky Mineral (F1)
- ___ Loamy Gleyed Matrix (F2)
- ___ Depleted Matrix (F3)
- X Redox Dark Surface (F6)
- ___ Depleted Dark Surface (F7)
- ___ Redox Depressions (F8)
- ___ High Plains Depressions (F16) (**MLRA 72 & 73 of LRR H**)

Indicators for Problematic Hydric Soils[3]:

- ___ 1 cm Muck (A9) (**LRR 1, J**)
- ___ Coast Prairie Redox (A16) (**LRR F, G, H**)
- ___ Dark Surface (S7) (**LRR G**)
- ___ High Plains Depressions (F16) (**LRR H outside of MLRA 72 & 73**)
- ___ Reduced Vertic (F18)
- ___ Red Parent Material (TF2)
- ___ Other (Explain in Remarks)

[3]Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic

Restrictive Layer (if present):

Type: ___

Depth (inches): ___

Hydric Soil Present? **Yes** X **No** ___

Remarks: Soils meet hydric soil criterion.

HYDROLOGY

Wetland Hydrology Indicators:

Primary Indicators (minimum of one required; check all that apply)

- ___ Surface Water (A1)
- ___ High Water Table (A2)
- ___ Saturation (A3)
- ___ Water Marks (B1)
- ___ Sediment Deposits (B2)
- ___ Drift Deposits (B3)
- ___ Agal Mat or Crust (B4)
- ___ Iron Deposits (B5)
- ___ Inundation Visible on Aerial Imagery (B7)
- X Water-Stained Leaves (B9)
- ___ Salt Crust (B11)
- ___ Aquatic Invertebrates (B13)
- ___ Hydrogen Sulfide Odor (C1)
- ___ Dry-Season Water Table (C2)
- ___ Oxidized Rhizospheres on Living Roots (C3) (**where not tilled**)
- ___ Presence of Reduced Iron (C4)
- ___ Thin Muck Surface (C7)
- ___ Other (Explain in Remarks)

Secondary Indictors (minimum of two required)

- ___ Surface Soil Cracks (B6)
- ___ Sparsely Vegetated Concave Surface (B8)
- ___ Drainage Patterns (B10)
- ___ Oxidized Rhizospheres on Living Roots (C3) (**where tilled**)
- ___ Crayfish burrows (C8)
- ___ Saturation Visible on Aerial Imagery (C9)
- ___ Geomorphic Position (D2)
- X FAC-Neutral Test (D5)
- ___ Frost-Heave Hummocks (D7) (**LRR F**)

Field Observations:

Surface Water Present? Yes ___ No X Depth (inches): NA

Water Table Present? Yes ___ No X Depth (inches): NA

Saturation Present? (includes capillary fringe) Yes ___ No X Depth (inches): NA

Wetland Hydrology Present? **Yes** X **No** ___

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks: Hydrology criterion met.

WETLAND DETERMINATION DATA FORM – Great Plains Region

Project/Site: IH 35W (North) - Area Crossing 8: unnamed tributary to Big Bear Creek City/County: Tarrant County Sampling Date: 2/25/2009

Applicant/Owner: TxDOT State: TX Sampling Point: 8

Investigator(s): ARC, MB Section, Township, Range: Not applicable

Landform (hillslope, terrace, etc.): Hillslope Local relief (concave, convex, none): Convex Slope (%): Not available

Subregion (LRR): J Lat: 32.942847 Long: - 97.311742 Datum: WGS84

Soil Map Unit Name: San Saba clay, 0 to 2 percent slopes NWI Classification: U - Upland

Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No _____ (If no, explain in Remarks.)

Are Vegetation _____ , Soil _____ , or Hydrology _____ Significantly disturbed? Are "Normal Circumstances" present? Yes X No _____

Are Vegetation _____ , Soil _____ , or Hydrology _____ Naturally problematic? (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes _____	No X	Is the Sampled Area Within a Wetland?	Yes _____ No X
Hydric Soil Present?	Yes _____	No X		
Wetland Hydrology Present?	Yes _____	No X		

Remarks: Sampling location does not meet any of the three wetland criteria.

VEGETATION – Use scientific names of plants.

Tree Stratum (Plot size: _____)	Absolute% Cover	Dominant Species?	Indicator Status
1.			
2.			
3.			
4.			
	0 = % Total Cover		
Sapling/Shrub Stratum (Plot size: _____)			
1.			
2.			
3.			
4.			
5.			
	0 = % Total Cover		
Herb Stratum (Plot size: 5' radius)			
1. *Cynodon dactylon*	70	X	FACU+
2. *Carduus nutans*	10		UPL
3. *Solidago canadensis*	5		FACU+
4. *Sorghum halapense*	5		FACU
5. *Allium canadense*	5		FACU-
6.			
7.			
8.			
9.			
10.			
	95 = % Total Cover		
Woody Vine Stratum (Plot size: _____)			
1.			
2.			
	0 = % Total Cover		

% Bare Ground in Herb Stratum 5

Dominance Test worksheet:

Number of Dominant Species That Are OBL, FACW, or FAC (excluding FAC-): 0 (A)

Total Number of Dominant Species Across All Strata: 1 (B)

Percent of Dominant Species That Are OBL, FACW, or FAC: 0 (A/B)

Prevalence Index worksheet:

Total % Cover of:			Multiply by:
OBL species	0	x 1 =	0
FACW species	0	x 2 =	0
FAC species	0	x 3 =	0
FACU species	85	x 4 =	340
UPL species	10	x 5 =	50
Column Totals:	95 (A)		390 (B)

Prevalence Index = B/A = 390/95 (4.11)

Hydrophytic Vegetation Indicators:

___ Dominance Test is >50%

___ Prevalence Index is ≤3.0[1]

___ Morphological Adaptations[1] (Provide supporting data in Remarks or on separate sheet)

___ Problematic Hydrophytic Vegetation[1] (Explain)

[1]Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.

Hydrophytic Vegetation Present? **Yes** _____ **No** X

Remarks: Vegetation does not meet hydrophytic vegetation criterion.

SOIL

Sampling Point: 8

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)

Depth (inches)	Matrix Color (moist)	Matrix %	Redox Features Color (moist)	Redox %	Type[1]	Loc[2]	Texture	Remarks
0-16	7.5YR 4/1	100					Clay	

[1]Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. [2]Location: PL=Pore Lining, M=Matrix.

Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)

- ____ Histols (A1)
- ____ Histic Epipedon (A2)
- ____ Black Histic (A3)
- ____ Hydrogen Sulfide (A4)
- ____ Stratified Layers (A5) (**LRR F**)
- ____ 1 cm Muck (A9) (**LRR F, G, H**)
- ____ Depleted Below Dark Surface (A11)
- ____ Thick Dark Surface (A12)
- ____ Sandy Mucky Mineral (S1)
- ____ 2.5 cm Mucky Peat or Peat (S2) (**LRR G, H**)
- ____ 5 cm Mucky Peat or Peat (S3) (**LRR F**)
- ____ Sandy Gleyed Matrix (S4)
- ____ Sandy Redox (S5)
- ____ Stripped Matrix (S6)
- ____ Loamy Mucky Mineral (F1)
- ____ Loamy Gleyed Matrix (F2)
- ____ Depleted Matrix (F3)
- ____ Redox Dark Surface (F6)
- ____ Depleted Dark Surface (F7)
- ____ Redox Depressions (F8)
- ____ High Plains Depressions (F16) (**MLRA 72 & 73 of LRR H**)

Indicators for Problematic Hydric Soils[3]:

- ____ 1 cm Muck (A9) (**LRR 1, J**)
- ____ Coast Prairie Redox (A16) (**LRR F, G, H**)
- ____ Dark Surface (S7) (**LRR G**)
- ____ High Plains Depressions (F16) (**LRR H outside of MLRA 72 & 73**)
- ____ Reduced Vertic (F18)
- ____ Red Parent Material (TF2)
- ____ Other (Explain in Remarks)

[3]Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic

Restrictive Layer (if present):

Type: ____

Depth (inches): ____

Hydric Soil Present? **Yes** ____ **No** X

Remarks: Hydric soil indicators were not observed.

HYDROLOGY

Wetland Hydrology Indicators:

Primary Indicators (minimum of one required; check all that apply)

- ____ Surface Water (A1)
- ____ High Water Table (A2)
- ____ Saturation (A3)
- ____ Water Marks (B1)
- ____ Sediment Deposits (B2)
- ____ Drift Deposits (B3)
- ____ Agal Mat or Crust (B4)
- ____ Iron Deposits (B5)
- ____ Inundation Visible on Aerial Imagery (B7)
- ____ Water-Stained Leaves (B9)
- ____ Salt Crust (B11)
- ____ Aquatic Invertebrates (B13)
- ____ Hydrogen Sulfide Odor (C1)
- ____ Dry-Season Water Table (C2)
- ____ Oxidized Rhizospheres on Living Roots (C3) (**where not tilled**)
- ____ Presence of Reduced Iron (C4)
- ____ Thin Muck Surface (C7)
- ____ Other (Explain in Remarks)

Secondary Indictors (minimum of two required)

- ____ Surface Soil Cracks (B6)
- ____ Sparsely Vegetated Concave Surface (B8)
- ____ Drainage Patterns (B10)
- ____ Oxidized Rhizospheres on Living Roots (C3) (**where tilled**)
- ____ Crayfish burrows (C8)
- ____ Saturation Visible on Aerial Imagery (C9)
- ____ Geomorphic Position (D2)
- ____ FAC-Neutral Test (D5)
- ____ Frost-Heave Hummocks (D7) (**LRR F**)

Field Observations:

Surface Water Present? Yes ____ No X Depth (inches): NA

Water Table Present? Yes ____ No X Depth (inches): NA

Saturation Present? (includes capillary fringe) Yes ____ No X Depth (inches): NA

Wetland Hydrology Present? **Yes** ____ **No** X

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks: No primary or secondary hydrology indicators were present.

WETLAND DETERMINATION DATA FORM – Great Plains Region

Project/Site: IH 35W (North) - Area Crossing 9: Big Bear Creek City/County: Fort Worth, Tarrant County Sampling Date: 2/25/2009

Applicant/Owner: TxDOT State: TX Sampling Point: 9

Investigator(s): ARC, MB Section, Township, Range: Not applicable

Landform (hillslope, terrace, etc.): Terrace Local relief (concave, convex, none): Convex Slope (%): Not available

Subregion (LRR): J Lat: 32.933462 Long: - 97.314794 Datum: WGS84

Soil Map Unit Name: Slidell clay, 1 to 3 percent slopes NWI Classification: PEM1 - Palustrine, Emergent, Persistent

Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No ____ (If no, explain in Remarks.)

Are Vegetation ____ , Soil ____ , or Hydrology ____ Significantly disturbed? Are "Normal Circumstances" present? Yes X No ____

Are Vegetation ____ , Soil ____ , or Hydrology ____ Naturally problematic? (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes X	No ____	Is the Sampled Area Within a Wetland?	Yes X No ____
Hydric Soil Present?	Yes X	No ____		
Wetland Hydrology Present?	Yes X	No ____		

Remarks: Sampling location meets all three of the wetland criteria.

VEGETATION – Use scientific names of plants.

Tree Stratum (Plot size: ____)	Absolute% Cover	Dominant Species?	Indicator Status
1.			
2.			
3.			
4.			
	0 = % Total Cover		
Sapling/Shrub Stratum (Plot size: ____)			
1.			
2.			
3.			
4.			
5.			
	0 = % Total Cover		
Herb Stratum (Plot size: 5' radius)			
1. *Typha domingensis*	40	X	OBL
2. *Eleocharis montevidensis*	15	X	FACW+
3. *Bacopa rotundifolia*	5		OBL
4.			
5.			
6.			
7.			
8.			
9.			
10.			
	60 = % Total Cover		
Woody Vine Stratum (Plot size: ____)			
1.			
2.			
	0 = % Total Cover		

% Bare Ground in Herb Stratum 40

Dominance Test worksheet:

Number of Dominant Species That Are OBL, FACW, or FAC (excluding FAC-): 2 (A)

Total Number of Dominant Species Across All Strata: 2 (B)

Percent of Dominant Species That Are OBL, FACW, or FAC: 100 (A/B)

Prevalence Index worksheet:

	Total % Cover of:		Multiply by:
OBL species	____	x 1 =	____
FACW species	____	x 2 =	____
FAC species	____	x 3 =	____
FACU species	____	x 4 =	____
UPL species	____	x 5 =	____
Column Totals:	____ (A)		____ (B)

Prevalence Index = B/A = ____

Hydrophytic Vegetation Indicators:

X Dominance Test is >50%

___ Prevalence Index is ≤3.0[1]

___ Morphological Adaptations[1] (Provide supporting data in Remarks or on separate sheet)

___ Problematic Hydrophytic Vegetation[1] (Explain)

[1]Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.

Hydrophytic Vegetation Present? **Yes** X **No** ____

Remarks: Vegetation meets hydrophytic vegetation criterion.

SOIL

Sampling Point: 9

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)

Depth (inches)	Matrix Color (moist)	Matrix %	Redox Features Color (moist)	Redox %	Type[1]	Loc[2]	Texture	Remarks
0-16	7.5YR 3/2	95	2.5YR 4/6	5	C	M	Clay	

[1]Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. [2]Location: PL=Pore Lining, M=Matrix.

Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)

- ____ Histols (A1)
- ____ Histic Epipedon (A2)
- ____ Black Histic (A3)
- ____ Hydrogen Sulfide (A4)
- ____ Stratified Layers (A5) (**LRR F**)
- ____ 1 cm Muck (A9) (**LRR F, G, H**)
- ____ Depleted Below Dark Surface (A11)
- ____ Thick Dark Surface (A12)
- ____ Sandy Mucky Mineral (S1)
- ____ 2.5 cm Mucky Peat or Peat (S2) (**LRR G, H**)
- ____ 5 cm Mucky Peat or Peat (S3) (**LRR F**)
- ____ Sandy Gleyed Matrix (S4)
- ____ Sandy Redox (S5)
- ____ Stripped Matrix (S6)
- ____ Loamy Mucky Mineral (F1)
- ____ Loamy Gleyed Matrix (F2)
- ____ Depleted Matrix (F3)
- X Redox Dark Surface (F6)
- ____ Depleted Dark Surface (F7)
- ____ Redox Depressions (F8)
- ____ High Plains Depressions (F16) (**MLRA 72 & 73 of LRR H**)

Indicators for Problematic Hydric Soils[3]:

- ____ 1 cm Muck (A9) (**LRR 1, J**)
- ____ Coast Prairie Redox (A16) (**LRR F, G, H**)
- ____ Dark Surface (S7) (**LRR G**)
- ____ High Plains Depressions (F16) (**LRR H outside of MLRA 72 & 73**)
- ____ Reduced Vertic (F18)
- ____ Red Parent Material (TF2)
- ____ Other (Explain in Remarks)

[3]Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic

Restrictive Layer (if present):

Type: ____

Depth (inches): ____

Hydric Soil Present? **Yes** X **No** ____

Remarks: Soils meet hydric soil criterion.

HYDROLOGY

Wetland Hydrology Indicators:

Primary Indicators (minimum of one required; check all that apply)

- ____ Surface Water (A1)
- ____ High Water Table (A2)
- X Saturation (A3)
- ____ Water Marks (B1)
- ____ Sediment Deposits (B2)
- ____ Drift Deposits (B3)
- ____ Agal Mat or Crust (B4)
- ____ Iron Deposits (B5)
- ____ Inundation Visible on Aerial Imagery (B7)
- ____ Water-Stained Leaves (B9)
- ____ Salt Crust (B11)
- ____ Aquatic Invertebrates (B13)
- ____ Hydrogen Sulfide Odor (C1)
- ____ Dry-Season Water Table (C2)
- ____ Oxidized Rhizospheres on Living Roots (C3) (**where not tilled**)
- ____ Presence of Reduced Iron (C4)
- ____ Thin Muck Surface (C7)
- ____ Other (Explain in Remarks)

Secondary Indictors (minimum of two required)

- ____ Surface Soil Cracks (B6)
- ____ Sparsely Vegetated Concave Surface (B8)
- ____ Drainage Patterns (B10)
- ____ Oxidized Rhizospheres on Living Roots (C3) (**where tilled**)
- ____ Crayfish burrows (C8)
- ____ Saturation Visible on Aerial Imagery (C9)
- ____ Geomorphic Position (D2)
- X FAC-Neutral Test (D5)
- ____ Frost-Heave Hummocks (D7) (**LRR F**)

Field Observations:

Surface Water Present? Yes ____ No X Depth (inches): NA

Water Table Present? Yes ____ No X Depth (inches): NA

Saturation Present? (includes capillary fringe) Yes X No ____ Depth (inches): 0

Wetland Hydrology Present? **Yes** X **No** ____

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks: Hydrology criterion met.

WETLAND DETERMINATION DATA FORM – Great Plains Region

Project/Site: IH 35W (North) - Area Crossing 9: Big Bear Creek City/County: Fort Worth, Tarrant County Sampling Date: 2/25/2009

Applicant/Owner: TxDOT State: TX Sampling Point: 10

Investigator(s): ARC, MB Section, Township, Range: Not applicable

Landform (hillslope, terrace, etc.): Hillslope Local relief (concave, convex, none): Convex Slope (%): Not available

Subregion (LRR): J Lat: 32.933601 Long: - 97.314603 Datum: WGS84

Soil Map Unit Name: Slidell clay, 1 to 3 percent slopes NWI Classification: U - Upland

Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No ____ (If no, explain in Remarks.)

Are Vegetation ____ , Soil ____ , or Hydrology ____ Significantly disturbed? Are "Normal Circumstances" present? Yes X No ____

Are Vegetation ____ , Soil ____ , or Hydrology ____ Naturally problematic? (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes X	No ____	Is the Sampled Area	
Hydric Soil Present?	Yes ____	No X	Within a Wetland?	Yes ____ No X
Wetland Hydrology Present?	Yes ____	No X		

Remarks: Sampling location does not meet one of the three wetland criteria.

VEGETATION – Use scientific names of plants.

Tree Stratum (Plot size: 5' x 5')	Absolute% Cover	Dominant Species?	Indicator Status
1. *Celtis laevigata*	10	X	FAC
2.			
3.			
4.			
	10 = % Total Cover		
Sapling/Shrub Stratum (Plot size: 5' x 5')			
1. *Celtis laevigata*	15	X	FAC
2.			
3.			
4.			
5.			
	15 = % Total Cover		
Herb Stratum (Plot size: 5' radius)			
1. *Cynodon dactylon*	80	X	FACU+
2. *Sorghum halapense*	5		FACU
3. *Daucus carota*	5		UPL
4. *Ambrosia trifida*	5		FAC
5.			
6.			
7.			
8.			
9.			
10.			
	95 = % Total Cover		
Woody Vine Stratum (Plot size: ____)			
1.			
2.			
	0 = % Total Cover		

% Bare Ground in Herb Stratum 5

Dominance Test worksheet:

Number of Dominant Species That Are OBL, FACW, or FAC (excluding FAC-): 2 (A)

Total Number of Dominant Species Across All Strata: 3 (B)

Percent of Dominant Species That Are OBL, FACW, or FAC: 67 (A/B)

Prevalence Index worksheet:

Total % Cover of:		Multiply by:
OBL species	____	x 1 = ____
FACW species	____	x 2 = ____
FAC species	____	x 3 = ____
FACU species	____	x 4 = ____
UPL species	____	x 5 = ____
Column Totals:	____ (A)	____ (B)

Prevalence Index = B/A = ____

Hydrophytic Vegetation Indicators:

X Dominance Test is >50%

___ Prevalence Index is ≤3.0[1]

___ Morphological Adaptations[1] (Provide supporting data in Remarks or on separate sheet)

___ Problematic Hydrophytic Vegetation[1] (Explain)

[1]Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.

Hydrophytic Vegetation Present? **Yes** X **No** ____

Remarks: Vegetation meets hydrophytic vegetation criterion.

SOIL

Sampling Point: 10

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)

Depth (inches)	Matrix Color (moist)	Matrix %	Redox Features Color (moist)	Redox %	Type[1]	Loc[2]	Texture	Remarks
0-16	7.5YR 4/1	100					Clay	

[1]Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. [2]Location: PL=Pore Lining, M=Matrix.

Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)

- ____ Histols (A1)
- ____ Histic Epipedon (A2)
- ____ Black Histic (A3)
- ____ Hydrogen Sulfide (A4)
- ____ Stratified Layers (A5) (**LRR F**)
- ____ 1 cm Muck (A9) (**LRR F, G, H**)
- ____ Depleted Below Dark Surface (A11)
- ____ Thick Dark Surface (A12)
- ____ Sandy Mucky Mineral (S1)
- ____ 2.5 cm Mucky Peat or Peat (S2) (**LRR G, H**)
- ____ 5 cm Mucky Peat or Peat (S3) (**LRR F**)
- ____ Sandy Gleyed Matrix (S4)
- ____ Sandy Redox (S5)
- ____ Stripped Matrix (S6)
- ____ Loamy Mucky Mineral (F1)
- ____ Loamy Gleyed Matrix (F2)
- ____ Depleted Matrix (F3)
- ____ Redox Dark Surface (F6)
- ____ Depleted Dark Surface (F7)
- ____ Redox Depressions (F8)
- ____ High Plains Depressions (F16) (**MLRA 72 & 73 of LRR H**)

Indicators for Problematic Hydric Soils[3]:

- ____ 1 cm Muck (A9) (**LRR 1, J**)
- ____ Coast Prairie Redox (A16) (**LRR F, G, H**)
- ____ Dark Surface (S7) (**LRR G**)
- ____ High Plains Depressions (F16) (**LRR H outside of MLRA 72 & 73**)
- ____ Reduced Vertic (F18)
- ____ Red Parent Material (TF2)
- ____ Other (Explain in Remarks)

[3]Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic

Restrictive Layer (if present):

Type: ____

Depth (inches): ____

Hydric Soil Present? **Yes** ____ **No** X

Remarks: Hydric soil indicators were not observed.

HYDROLOGY

Wetland Hydrology Indicators:

Primary Indicators (minimum of one required; check all that apply)

- ____ Surface Water (A1)
- ____ High Water Table (A2)
- ____ Saturation (A3)
- ____ Water Marks (B1)
- ____ Sediment Deposits (B2)
- ____ Drift Deposits (B3)
- ____ Agal Mat or Crust (B4)
- ____ Iron Deposits (B5)
- ____ Inundation Visible on Aerial Imagery (B7)
- ____ Water-Stained Leaves (B9)
- ____ Salt Crust (B11)
- ____ Aquatic Invertebrates (B13)
- ____ Hydrogen Sulfide Odor (C1)
- ____ Dry-Season Water Table (C2)
- ____ Oxidized Rhizospheres on Living Roots (C3) (**where not tilled**)
- ____ Presence of Reduced Iron (C4)
- ____ Thin Muck Surface (C7)
- ____ Other (Explain in Remarks)

Secondary Indictors (minimum of two required)

- ____ Surface Soil Cracks (B6)
- ____ Sparsely Vegetated Concave Surface (B8)
- ____ Drainage Patterns (B10)
- ____ Oxidized Rhizospheres on Living Roots (C3) (**where tilled**)
- ____ Crayfish burrows (C8)
- ____ Saturation Visible on Aerial Imagery (C9)
- ____ Geomorphic Position (D2)
- ____ FAC-Neutral Test (D5)
- ____ Frost-Heave Hummocks (D7) (**LRR F**)

Field Observations:

Surface Water Present? Yes ____ No X Depth (inches): NA

Water Table Present? Yes ____ No X Depth (inches): NA

Saturation Present? (includes capillary fringe) Yes ____ No X Depth (inches): NA

Wetland Hydrology Present? **Yes** ____ **No** X

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks: No primary or secondary hydrology indicators were present.

WETLAND DETERMINATION DATA FORM – Great Plains Region

Project/Site: IH 35W (North) - Area Crossing 10: unnamed tributary to Big Fossil Creek City/County: Fort Worth, Tarrant County Sampling Date: 2/25/2009

Applicant/Owner: TxDOT State: TX Sampling Point: 11

Investigator(s): ARC, MB Section, Township, Range: Not applicable

Landform (hillslope, terrace, etc.): Terrace Local relief (concave, convex, none): Convex Slope (%): Not available

Subregion (LRR): J Lat: 32.920155 Long: - 97.316724 Datum: WGS84

Soil Map Unit Name: Aledo gravelly clay loam, 1 to 8 percent slopes NWI Classification: PEM1 - Palustrine, Emergent, Persistent

Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No ____ (If no, explain in Remarks.)

Are Vegetation ____ , Soil ____ , or Hydrology ____ Significantly disturbed? Are "Normal Circumstances" present? Yes X No ____

Are Vegetation ____ , Soil ____ , or Hydrology ____ Naturally problematic? (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes X	No ____	Is the Sampled Area Within a Wetland?	Yes X No ____
Hydric Soil Present?	Yes X	No ____		
Wetland Hydrology Present?	Yes X	No ____		

Remarks: Sampling location meets all three of the wetland criteria.

VEGETATION – Use scientific names of plants.

Tree Stratum (Plot size: ____)	Absolute% Cover	Dominant Species?	Indicator Status
1.			
2.			
3.			
4.			
	0 = % Total Cover		
Sapling/Shrub Stratum (Plot size: 5' x 5')			
1. *Salix nigra*	20	X	FACW+
2.			
3.			
4.			
5.			
	20 = % Total Cover		
Herb Stratum (Plot size: 5' radius)			
1. *Typha domingensis*	60	X	OBL
2. *Rumex crispus*	5		FACW
3. *Andropogon glomeratus*	5		FACW+
4.			
5.			
6.			
7.			
8.			
9.			
10.			
	70 = % Total Cover		
Woody Vine Stratum (Plot size: ____)			
1.			
2.			
	0 = % Total Cover		

% Bare Ground in Herb Stratum 30

Dominance Test worksheet:

Number of Dominant Species That Are OBL, FACW, or FAC (excluding FAC-): 2 (A)

Total Number of Dominant Species Across All Strata: 2 (B)

Percent of Dominant Species That Are OBL, FACW, or FAC: 100 (A/B)

Prevalence Index worksheet:

Total % Cover of:		Multiply by:
OBL species	____	x 1 = ____
FACW species	____	x 2 = ____
FAC species	____	x 3 = ____
FACU species	____	x 4 = ____
UPL species	____	x 5 = ____
Column Totals:	____ (A)	____ (B)

Prevalence Index = B/A = ____

Hydrophytic Vegetation Indicators:

X Dominance Test is >50%

___ Prevalence Index is ≤3.0[1]

___ Morphological Adaptations[1] (Provide supporting data in Remarks or on separate sheet)

___ Problematic Hydrophytic Vegetation[1] (Explain)

[1]Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.

Hydrophytic Vegetation Present? **Yes** X **No** ____

Remarks: Vegetation meets hydrophytic vegetation criterion.

SOIL

Sampling Point: 11

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)

Depth (inches)	Matrix Color (moist)	Matrix %	Redox Features Color (moist)	Redox %	Type[1]	Loc[2]	Texture	Remarks
0-16	10YR 3/1	90	10YR 4/1	10	D	M	Clay	

[1]Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. [2]Location: PL=Pore Lining, M=Matrix.

Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)

- ____ Histols (A1)
- ____ Histic Epipedon (A2)
- ____ Black Histic (A3)
- ____ Hydrogen Sulfide (A4)
- ____ Stratified Layers (A5) (**LRR F**)
- ____ 1 cm Muck (A9) (**LRR F, G, H**)
- ____ Depleted Below Dark Surface (A11)
- ____ Thick Dark Surface (A12)
- ____ Sandy Mucky Mineral (S1)
- ____ 2.5 cm Mucky Peat or Peat (S2) (**LRR G, H**)
- ____ 5 cm Mucky Peat or Peat (S3) (**LRR F**)
- ____ Sandy Gleyed Matrix (S4)
- ____ Sandy Redox (S5)
- ____ Stripped Matrix (S6)
- ____ Loamy Mucky Mineral (F1)
- ____ Loamy Gleyed Matrix (F2)
- ____ Depleted Matrix (F3)
- ____ Redox Dark Surface (F6)
- X Depleted Dark Surface (F7)
- ____ Redox Depressions (F8)
- ____ High Plains Depressions (F16) (**MLRA 72 & 73 of LRR H**)

Indicators for Problematic Hydric Soils[3]:

- ____ 1 cm Muck (A9) (**LRR 1, J**)
- ____ Coast Prairie Redox (A16) (**LRR F, G, H**)
- ____ Dark Surface (S7) (**LRR G**)
- ____ High Plains Depressions (F16) (**LRR H outside of MLRA 72 & 73**)
- ____ Reduced Vertic (F18)
- ____ Red Parent Material (TF2)
- ____ Other (Explain in Remarks)

[3]Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic

Restrictive Layer (if present):

Type: ____

Depth (inches): ____

Hydric Soil Present? **Yes** X **No** ____

Remarks: Soils meet hydric soil criterion.

HYDROLOGY

Wetland Hydrology Indicators:

Primary Indicators (minimum of one required; check all that apply)

- ____ Surface Water (A1)
- ____ High Water Table (A2)
- X Saturation (A3)
- ____ Water Marks (B1)
- X Sediment Deposits (B2)
- ____ Drift Deposits (B3)
- ____ Agal Mat or Crust (B4)
- ____ Iron Deposits (B5)
- ____ Inundation Visible on Aerial Imagery (B7)
- X Water-Stained Leaves (B9)
- ____ Salt Crust (B11)
- ____ Aquatic Invertebrates (B13)
- ____ Hydrogen Sulfide Odor (C1)
- ____ Dry-Season Water Table (C2)
- ____ Oxidized Rhizospheres on Living Roots (C3) (**where not tilled**)
- ____ Presence of Reduced Iron (C4)
- ____ Thin Muck Surface (C7)
- ____ Other (Explain in Remarks)

Secondary Indictors (minimum of two required)

- ____ Surface Soil Cracks (B6)
- ____ Sparsely Vegetated Concave Surface (B8)
- ____ Drainage Patterns (B10)
- ____ Oxidized Rhizospheres on Living Roots (C3) (**where tilled**)
- ____ Crayfish burrows (C8)
- ____ Saturation Visible on Aerial Imagery (C9)
- ____ Geomorphic Position (D2)
- X FAC-Neutral Test (D5)
- ____ Frost-Heave Hummocks (D7) (**LRR F**)

Field Observations:

Surface Water Present? Yes ____ No X Depth (inches): NA

Water Table Present? Yes ____ No X Depth (inches): NA

Saturation Present? (includes capillary fringe) Yes X No ____ Depth (inches): 0

Wetland Hydrology Present? **Yes** X **No** ____

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks: Hydrology criterion met.

WETLAND DETERMINATION DATA FORM – Great Plains Region

Project/Site: IH 35W (North) - Area Crossing 10: unnamed tributary to Big Fossil Creek City/County: Fort Worth, Tarrant County Sampling Date: 2/25/2009

Applicant/Owner: TxDOT State: TX Sampling Point: 12

Investigator(s): ARC, MB Section, Township, Range: Not applicable

Landform (hillslope, terrace, etc.): Hillslope Local relief (concave, convex, none): Convex Slope (%): Not available

Subregion (LRR): J Lat: 32.920008 Long: - 97.316727 Datum: WGS84

Soil Map Unit Name: Aledo gravelly clay loam, 1 to 8 percent slopes NWI Classification: U - Upland

Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No ____ (If no, explain in Remarks.)

Are Vegetation ____ , Soil ____ , or Hydrology ____ Significantly disturbed? Are "Normal Circumstances" present? Yes X No ____

Are Vegetation ____ , Soil ____ , or Hydrology ____ Naturally problematic? (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes ____	No X	Is the Sampled Area Within a Wetland?	Yes ____ No X
Hydric Soil Present?	Yes ____	No X		
Wetland Hydrology Present?	Yes ____	No X		

Remarks: Sampling location does not meet any of the three wetland criteria.

VEGETATION – Use scientific names of plants.

Tree Stratum (Plot size: ____)	Absolute% Cover	Dominant Species?	Indicator Status
1.			
2.			
3.			
4.			
	0 = % Total Cover		
Sapling/Shrub Stratum (Plot size: ____)			
1.			
2.			
3.			
4.			
5.			
	0 = % Total Cover		
Herb Stratum (Plot size: 5' radius)			
1. *Cynodon dactylon*	45	X	FACU+
2. *Lolium perenne*	45	X	FACU
3.			
4.			
5.			
6.			
7.			
8.			
9.			
10.			
	90 = % Total Cover		
Woody Vine Stratum (Plot size: ____)			
1.			
2.			
	0 = % Total Cover		

% Bare Ground in Herb Stratum 10

Dominance Test worksheet:

Number of Dominant Species That Are OBL, FACW, or FAC (excluding FAC-): 0 (A)

Total Number of Dominant Species Across All Strata: 2 (B)

Percent of Dominant Species That Are OBL, FACW, or FAC: 0 (A/B)

Prevalence Index worksheet:

Total % Cover of:			Multiply by:
OBL species	0	x 1 =	0
FACW species	0	x 2 =	0
FAC species	0	x 3 =	0
FACU species	90	x 4 =	360
UPL species	0	x 5 =	0
Column Totals:	90 (A)		360 (B)

Prevalence Index = B/A = 360/90 (4)

Hydrophytic Vegetation Indicators:

___ Dominance Test is >50%

___ Prevalence Index is ≤3.0[1]

___ Morphological Adaptations[1] (Provide supporting data in Remarks or on separate sheet)

___ Problematic Hydrophytic Vegetation[1] (Explain)

[1]Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.

Hydrophytic Vegetation Present? **Yes** ____ **No** X

Remarks: Vegetation does not meet hydrophytic vegetation criterion.

SOIL

Sampling Point: 12

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)

Depth (inches)	Matrix Color (moist)	Matrix %	Redox Features Color (moist)	Redox %	Type[1]	Loc[2]	Texture	Remarks
0-16	7.5YR 4/1	100					Clay loam	

[1]Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. [2]Location: PL=Pore Lining, M=Matrix.

Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)

- ____ Histols (A1)
- ____ Histic Epipedon (A2)
- ____ Black Histic (A3)
- ____ Hydrogen Sulfide (A4)
- ____ Stratified Layers (A5) (**LRR F**)
- ____ 1 cm Muck (A9) (**LRR F, G, H**)
- ____ Depleted Below Dark Surface (A11)
- ____ Thick Dark Surface (A12)
- ____ Sandy Mucky Mineral (S1)
- ____ 2.5 cm Mucky Peat or Peat (S2) (**LRR G, H**)
- ____ 5 cm Mucky Peat or Peat (S3) (**LRR F**)
- ____ Sandy Gleyed Matrix (S4)
- ____ Sandy Redox (S5)
- ____ Stripped Matrix (S6)
- ____ Loamy Mucky Mineral (F1)
- ____ Loamy Gleyed Matrix (F2)
- ____ Depleted Matrix (F3)
- ____ Redox Dark Surface (F6)
- ____ Depleted Dark Surface (F7)
- ____ Redox Depressions (F8)
- ____ High Plains Depressions (F16) (**MLRA 72 & 73 of LRR H**)

Indicators for Problematic Hydric Soils[3]:

- ____ 1 cm Muck (A9) (**LRR 1, J**)
- ____ Coast Prairie Redox (A16) (**LRR F, G, H**)
- ____ Dark Surface (S7) (**LRR G**)
- ____ High Plains Depressions (F16) (**LRR H outside of MLRA 72 & 73**)
- ____ Reduced Vertic (F18)
- ____ Red Parent Material (TF2)
- ____ Other (Explain in Remarks)

[3]Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic

Restrictive Layer (if present):

Type: ____

Depth (inches): ____

Hydric Soil Present? **Yes** ____ **No** X

Remarks: Hydric soil indicators were not observed.

HYDROLOGY

Wetland Hydrology Indicators:

Primary Indicators (minimum of one required; check all that apply)

- ____ Surface Water (A1)
- ____ High Water Table (A2)
- ____ Saturation (A3)
- ____ Water Marks (B1)
- ____ Sediment Deposits (B2)
- ____ Drift Deposits (B3)
- ____ Agal Mat or Crust (B4)
- ____ Iron Deposits (B5)
- ____ Inundation Visible on Aerial Imagery (B7)
- ____ Water-Stained Leaves (B9)
- ____ Salt Crust (B11)
- ____ Aquatic Invertebrates (B13)
- ____ Hydrogen Sulfide Odor (C1)
- ____ Dry-Season Water Table (C2)
- ____ Oxidized Rhizospheres on Living Roots (C3) (**where not tilled**)
- ____ Presence of Reduced Iron (C4)
- ____ Thin Muck Surface (C7)
- ____ Other (Explain in Remarks)

Secondary Indictors (minimum of two required)

- ____ Surface Soil Cracks (B6)
- ____ Sparsely Vegetated Concave Surface (B8)
- ____ Drainage Patterns (B10)
- ____ Oxidized Rhizospheres on Living Roots (C3) (**where tilled**)
- ____ Crayfish burrows (C8)
- ____ Saturation Visible on Aerial Imagery (C9)
- ____ Geomorphic Position (D2)
- ____ FAC-Neutral Test (D5)
- ____ Frost-Heave Hummocks (D7) (**LRR F**)

Field Observations:

Surface Water Present? Yes ____ No X Depth (inches): NA

Water Table Present? Yes ____ No X Depth (inches): NA

Saturation Present? (includes capillary fringe) Yes ____ No X Depth (inches): NA

Wetland Hydrology Present? **Yes** ____ **No** X

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks: No primary or secondary hydrology indicators were present.

WETLAND DETERMINATION DATA FORM – Great Plains Region

Project/Site: IH 35W (North) - Area Crossing 11: unnamed tributary to Big Fossil Creek City/County: Fort Worth, Tarrant County Sampling Date: 2/25/2009

Applicant/Owner: TxDOT State: TX Sampling Point: 13

Investigator(s): ARC, MB Section, Township, Range: Not applicable

Landform (hillslope, terrace, etc.): Terrace Local relief (concave, convex, none): Convex Slope (%): Not available

Subregion (LRR): J Lat: 32.899793 Long: - 97.316942 Datum: WGS84

Soil Map Unit Name: Slidell clay, 1 to 3 percent slopes NWI Classification: PEM1 - Palustrine, Emergent, Persistent

Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No ____ (If no, explain in Remarks.)

Are Vegetation ____ , Soil ____ , or Hydrology ____ Significantly disturbed? Are "Normal Circumstances" present? Yes X No ____

Are Vegetation ____ , Soil ____ , or Hydrology ____ Naturally problematic? (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes X	No ____	Is the Sampled Area Within a Wetland?	Yes X No ____
Hydric Soil Present?	Yes X	No ____		
Wetland Hydrology Present?	Yes X	No ____		

Remarks: Sampling location meets all three of the wetland criteria.

VEGETATION – Use scientific names of plants.

Tree Stratum (Plot size: ____)	Absolute% Cover	Dominant Species?	Indicator Status
1.			
2.			
3.			
4.			
	0 = % Total Cover		
Sapling/Shrub Stratum (Plot size: 5' x 5')			
1. *Salix nigra*	5	X	FACW+
2.			
3.			
4.			
5.			
	5 = % Total Cover		
Herb Stratum (Plot size: 5' radius)			
1. *Eleocharis montevidensis*	30	X	FACW+
2. *Typha domingensis*	10	X	OBL
3. *Rumex crispus*	5		FACW
4.			
5.			
6.			
7.			
8.			
9.			
10.			
	45 = % Total Cover		
Woody Vine Stratum (Plot size: ____)			
1.			
2.			
	0 = % Total Cover		

% Bare Ground in Herb Stratum 55

Dominance Test worksheet:

Number of Dominant Species That Are OBL, FACW, or FAC (excluding FAC-): 3 (A)

Total Number of Dominant Species Across All Strata: 3 (B)

Percent of Dominant Species That Are OBL, FACW, or FAC: 100 (A/B)

Prevalence Index worksheet:

Total % Cover of:		Multiply by:
OBL species	____	x 1 = ____
FACW species	____	x 2 = ____
FAC species	____	x 3 = ____
FACU species	____	x 4 = ____
UPL species	____	x 5 = ____
Column Totals:	____ (A)	____ (B)

Prevalence Index = B/A = ____

Hydrophytic Vegetation Indicators:

X Dominance Test is >50%

___ Prevalence Index is ≤3.0[1]

___ Morphological Adaptations[1] (Provide supporting data in Remarks or on separate sheet)

___ Problematic Hydrophytic Vegetation[1] (Explain)

[1]Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.

Hydrophytic Vegetation Present? **Yes** X **No** ____

Remarks: Vegetation meets hydrophytic vegetation criterion.

SOIL

Sampling Point: 13

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)

Depth (inches)	Matrix Color (moist)	Matrix %	Redox Features Color (moist)	Redox %	Type[1]	Loc[2]	Texture	Remarks
0-16	7.5YR 4/1	90	5YR 4/6	10	C	M	Clay	

[1]Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. [2]Location: PL=Pore Lining, M=Matrix.

Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)

- ____ Histols (A1)
- ____ Histic Epipedon (A2)
- ____ Black Histic (A3)
- ____ Hydrogen Sulfide (A4)
- ____ Stratified Layers (A5) (**LRR F**)
- ____ 1 cm Muck (A9) (**LRR F, G, H**)
- ____ Depleted Below Dark Surface (A11)
- ____ Thick Dark Surface (A12)
- ____ Sandy Mucky Mineral (S1)
- ____ 2.5 cm Mucky Peat or Peat (S2) (**LRR G, H**)
- ____ 5 cm Mucky Peat or Peat (S3) (**LRR F**)
- ____ Sandy Gleyed Matrix (S4)
- ____ Sandy Redox (S5)
- ____ Stripped Matrix (S6)
- ____ Loamy Mucky Mineral (F1)
- ____ Loamy Gleyed Matrix (F2)
- X Depleted Matrix (F3)
- ____ Redox Dark Surface (F6)
- ____ Depleted Dark Surface (F7)
- ____ Redox Depressions (F8)
- ____ High Plains Depressions (F16) (**MLRA 72 & 73 of LRR H**)

Indicators for Problematic Hydric Soils[3]:

- ____ 1 cm Muck (A9) (**LRR 1, J**)
- ____ Coast Prairie Redox (A16) (**LRR F, G, H**)
- ____ Dark Surface (S7) (**LRR G**)
- ____ High Plains Depressions (F16) (**LRR H outside of MLRA 72 & 73**)
- ____ Reduced Vertic (F18)
- ____ Red Parent Material (TF2)
- ____ Other (Explain in Remarks)

[3]Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic

Restrictive Layer (if present):

Type: ____

Depth (inches): ____

Hydric Soil Present? **Yes** X **No** ____

Remarks: Soils meet hydric soil criterion.

HYDROLOGY

Wetland Hydrology Indicators:

Primary Indicators (minimum of one required; check all that apply)

- ____ Surface Water (A1)
- ____ High Water Table (A2)
- X Saturation (A3)
- ____ Water Marks (B1)
- ____ Sediment Deposits (B2)
- ____ Drift Deposits (B3)
- X Agal Mat or Crust (B4)
- ____ Iron Deposits (B5)
- ____ Inundation Visible on Aerial Imagery (B7)
- ____ Water-Stained Leaves (B9)
- ____ Salt Crust (B11)
- ____ Aquatic Invertebrates (B13)
- ____ Hydrogen Sulfide Odor (C1)
- ____ Dry-Season Water Table (C2)
- X Oxidized Rhizospheres on Living Roots (C3) (**where not tilled**)
- ____ Presence of Reduced Iron (C4)
- ____ Thin Muck Surface (C7)
- ____ Other (Explain in Remarks)

Secondary Indictors (minimum of two required)

- ____ Surface Soil Cracks (B6)
- ____ Sparsely Vegetated Concave Surface (B8)
- ____ Drainage Patterns (B10)
- ____ Oxidized Rhizospheres on Living Roots (C3) (**where tilled**)
- ____ Crayfish burrows (C8)
- ____ Saturation Visible on Aerial Imagery (C9)
- ____ Geomorphic Position (D2)
- X FAC-Neutral Test (D5)
- ____ Frost-Heave Hummocks (D7) (**LRR F**)

Field Observations:

Surface Water Present? Yes ____ No X Depth (inches): NA

Water Table Present? Yes ____ No X Depth (inches): NA

Saturation Present? (includes capillary fringe) Yes X No ____ Depth (inches): 0

Wetland Hydrology Present? **Yes** X **No** ____

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks: Hydrology criterion met.

WETLAND DETERMINATION DATA FORM – Great Plains Region

Project/Site: IH 35W (North) - Area Crossing 11: unnamed tributary to Big Fossil Creek City/County: Fort Worth, Tarrant County Sampling Date: 2/25/2009

Applicant/Owner: TxDOT State: TX Sampling Point: 14

Investigator(s): ARC, MB Section, Township, Range: Not applicable

Landform (hillslope, terrace, etc.): Hillslope Local relief (concave, convex, none): Convex Slope (%): Not available

Subregion (LRR): J Lat: 32.899934 Long: - 97.316926 Datum: WGS84

Soil Map Unit Name: Slidell clay, 1 to 3 percent slopes NWI Classification: U - Upland

Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No ____ (If no, explain in Remarks.)

Are Vegetation ____ , Soil ____ , or Hydrology ____ Significantly disturbed? Are "Normal Circumstances" present? Yes X No ____

Are Vegetation ____ , Soil ____ , or Hydrology ____ Naturally problematic? (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes ____	No X	Is the Sampled Area Within a Wetland?	Yes ____ No X
Hydric Soil Present?	Yes ____	No X		
Wetland Hydrology Present?	Yes ____	No X		

Remarks: Sampling location does not meet any of the three wetland criteria.

VEGETATION – Use scientific names of plants.

Tree Stratum (Plot size: ____)	Absolute% Cover	Dominant Species?	Indicator Status
1.			
2.			
3.			
4.			
	0 = % Total Cover		
Sapling/Shrub Stratum (Plot size: ____)			
1.			
2.			
3.			
4.			
5.			
	0 = % Total Cover		
Herb Stratum (Plot size: 5' radius)			
1. *Cynodon dactylon*	30	X	FACU+
2. *Lolium perenne*	20	X	FACU
3. *Digitaria sanguinalis*	5		FACU
4. *Geranium carolinianum*	5		UPL
5. *Allium canadense*	5		FACU-
6. *Sinapis arvensis*	5		UPL
7.			
8.			
9.			
10.			
	70 = % Total Cover		
Woody Vine Stratum (Plot size: ____)			
1.			
2.			
	0 = % Total Cover		

% Bare Ground in Herb Stratum 30

Dominance Test worksheet:

Number of Dominant Species That Are OBL, FACW, or FAC (excluding FAC-): 0 (A)

Total Number of Dominant Species Across All Strata: 2 (B)

Percent of Dominant Species That Are OBL, FACW, or FAC: 0 (A/B)

Prevalence Index worksheet:

Total % Cover of:			Multiply by:
OBL species	0	x 1 =	0
FACW species	0	x 2 =	0
FAC species	0	x 3 =	0
FACU species	60	x 4 =	240
UPL species	10	x 5 =	50
Column Totals:	70 (A)		290 (B)

Prevalence Index = B/A = 290/70 (4.14)

Hydrophytic Vegetation Indicators:

___ Dominance Test is >50%

___ Prevalence Index is ≤3.0[1]

___ Morphological Adaptations[1] (Provide supporting data in Remarks or on separate sheet)

___ Problematic Hydrophytic Vegetation[1] (Explain)

[1]Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.

Hydrophytic Vegetation Present? **Yes** ____ **No** X

Remarks: Vegetation does not meet hydrophytic vegetation criterion.

SOIL

Sampling Point: 14

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)

Depth (inches)	Matrix Color (moist)	Matrix %	Redox Features Color (moist)	Redox %	Type[1]	Loc[2]	Texture	Remarks
0-16	7.5YR 4/2	100					Clay	

[1]Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. [2]Location: PL=Pore Lining, M=Matrix.

Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)

- ____ Histols (A1)
- ____ Histic Epipedon (A2)
- ____ Black Histic (A3)
- ____ Hydrogen Sulfide (A4)
- ____ Stratified Layers (A5) (**LRR F**)
- ____ 1 cm Muck (A9) (**LRR F, G, H**)
- ____ Depleted Below Dark Surface (A11)
- ____ Thick Dark Surface (A12)
- ____ Sandy Mucky Mineral (S1)
- ____ 2.5 cm Mucky Peat or Peat (S2) (**LRR G, H**)
- ____ 5 cm Mucky Peat or Peat (S3) (**LRR F**)
- ____ Sandy Gleyed Matrix (S4)
- ____ Sandy Redox (S5)
- ____ Stripped Matrix (S6)
- ____ Loamy Mucky Mineral (F1)
- ____ Loamy Gleyed Matrix (F2)
- ____ Depleted Matrix (F3)
- ____ Redox Dark Surface (F6)
- ____ Depleted Dark Surface (F7)
- ____ Redox Depressions (F8)
- ____ High Plains Depressions (F16) (**MLRA 72 & 73 of LRR H**)

Indicators for Problematic Hydric Soils[3]:

- ____ 1 cm Muck (A9) (**LRR 1, J**)
- ____ Coast Prairie Redox (A16) (**LRR F, G, H**)
- ____ Dark Surface (S7) (**LRR G**)
- ____ High Plains Depressions (F16) (**LRR H outside of MLRA 72 & 73**)
- ____ Reduced Vertic (F18)
- ____ Red Parent Material (TF2)
- ____ Other (Explain in Remarks)

[3]Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic

Restrictive Layer (if present):

Type: ____

Depth (inches): ____

Hydric Soil Present? **Yes** ____ **No** X

Remarks: Hydric soil indicators were not observed.

HYDROLOGY

Wetland Hydrology Indicators:

Primary Indicators (minimum of one required; check all that apply)

- ____ Surface Water (A1)
- ____ High Water Table (A2)
- ____ Saturation (A3)
- ____ Water Marks (B1)
- ____ Sediment Deposits (B2)
- ____ Drift Deposits (B3)
- ____ Agal Mat or Crust (B4)
- ____ Iron Deposits (B5)
- ____ Inundation Visible on Aerial Imagery (B7)
- ____ Water-Stained Leaves (B9)
- ____ Salt Crust (B11)
- ____ Aquatic Invertebrates (B13)
- ____ Hydrogen Sulfide Odor (C1)
- ____ Dry-Season Water Table (C2)
- ____ Oxidized Rhizospheres on Living Roots (C3) (**where not tilled**)
- ____ Presence of Reduced Iron (C4)
- ____ Thin Muck Surface (C7)
- ____ Other (Explain in Remarks)

Secondary Indictors (minimum of two required)

- ____ Surface Soil Cracks (B6)
- ____ Sparsely Vegetated Concave Surface (B8)
- ____ Drainage Patterns (B10)
- ____ Oxidized Rhizospheres on Living Roots (C3) (**where tilled**)
- ____ Crayfish burrows (C8)
- ____ Saturation Visible on Aerial Imagery (C9)
- ____ Geomorphic Position (D2)
- ____ FAC-Neutral Test (D5)
- ____ Frost-Heave Hummocks (D7) (**LRR F**)

Field Observations:

Surface Water Present? Yes ____ No X Depth (inches): NA

Water Table Present? Yes ____ No X Depth (inches): NA

Saturation Present? (includes capillary fringe) Yes ____ No X Depth (inches): NA

Wetland Hydrology Present? **Yes** ____ **No** X

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks: No primary or secondary hydrology indicators were present.

WETLAND DETERMINATION DATA FORM – Great Plains Region

Project/Site: IH 35W (North) - Area Crossing 12: unnamed tributary to Big Fossil Creek City/County: Fort Worth, Tarrant County Sampling Date: 2/25/2009

Applicant/Owner: TxDOT State: TX Sampling Point: 15

Investigator(s): ARC, MB Section, Township, Range: Not applicable

Landform (hillslope, terrace, etc.): Terrace Local relief (concave, convex, none): Convex Slope (%): Not available

Subregion (LRR): J Lat: 32.891362 Long: - 97.31692 Datum: WGS84

Soil Map Unit Name: Slidell clay, 1 to 3 percent slopes NWI Classification: PEM1 - Palustrine, Emergent, Persistent

Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No ____ (If no, explain in Remarks.)

Are Vegetation ____ , Soil ____ , or Hydrology ____ Significantly disturbed? Are "Normal Circumstances" present? Yes X No ____

Are Vegetation ____ , Soil ____ , or Hydrology ____ Naturally problematic? (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes X	No ____	Is the Sampled Area Within a Wetland?	Yes X No ____
Hydric Soil Present?	Yes X	No ____		
Wetland Hydrology Present?	Yes X	No ____		

Remarks: Sampling location meets all three of the wetland criteria.

VEGETATION – Use scientific names of plants.

Tree Stratum (Plot size: ____)	Absolute% Cover	Dominant Species?	Indicator Status
1.			
2.			
3.			
4.			
	0 = % Total Cover		
Sapling/Shrub Stratum (Plot size: ____)			
1.			
2.			
3.			
4.			
5.			
	0 = % Total Cover		
Herb Stratum (Plot size: 5' radius)			
1. *Typha domingensis*	80	X	OBL
2. *Eleocharis montevidensis*	5		FACW+
3. *Solidago canadensis*	5		FAC
4. *Rumex crispus*	5		FACW
5.			
6.			
7.			
8.			
9.			
10.			
	95 = % Total Cover		
Woody Vine Stratum (Plot size: ____)			
1.			
2.			
	0 = % Total Cover		

% Bare Ground in Herb Stratum 5

Dominance Test worksheet:

Number of Dominant Species That Are OBL, FACW, or FAC (excluding FAC-): 1 (A)

Total Number of Dominant Species Across All Strata: 1 (B)

Percent of Dominant Species That Are OBL, FACW, or FAC: 100 (A/B)

Prevalence Index worksheet:

Total % Cover of:		Multiply by:
OBL species	____	x 1 = ____
FACW species	____	x 2 = ____
FAC species	____	x 3 = ____
FACU species	____	x 4 = ____
UPL species	____	x 5 = ____
Column Totals:	____ (A)	____ (B)

Prevalence Index = B/A = ____

Hydrophytic Vegetation Indicators:

X Dominance Test is >50%

___ Prevalence Index is ≤3.0[1]

___ Morphological Adaptations[1] (Provide supporting data in Remarks or on separate sheet)

___ Problematic Hydrophytic Vegetation[1] (Explain)

[1]Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.

Hydrophytic Vegetation Present? **Yes** X **No** ____

Remarks: Vegetation meets hydrophytic vegetation criterion.

SOIL

Sampling Point: 15

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)

Depth (inches)	Matrix Color (moist)	Matrix %	Redox Features Color (moist)	Redox %	Type[1]	Loc[2]	Texture	Remarks
0-16	7.5YR 3/2	90	2.5YR 4/6	5	C	M	Clay	

[1]Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. [2]Location: PL=Pore Lining, M=Matrix.

Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)

- ___ Histols (A1)
- ___ Histic Epipedon (A2)
- ___ Black Histic (A3)
- ___ Hydrogen Sulfide (A4)
- ___ Stratified Layers (A5) (**LRR F**)
- ___ 1 cm Muck (A9) (**LRR F, G, H**)
- ___ Depleted Below Dark Surface (A11)
- ___ Thick Dark Surface (A12)
- ___ Sandy Mucky Mineral (S1)
- ___ 2.5 cm Mucky Peat or Peat (S2) (**LRR G, H**)
- ___ 5 cm Mucky Peat or Peat (S3) (**LRR F**)
- ___ Sandy Gleyed Matrix (S4)
- ___ Sandy Redox (S5)
- ___ Stripped Matrix (S6)
- ___ Loamy Mucky Mineral (F1)
- ___ Loamy Gleyed Matrix (F2)
- ___ Depleted Matrix (F3)
- X Redox Dark Surface (F6)
- ___ Depleted Dark Surface (F7)
- ___ Redox Depressions (F8)
- ___ High Plains Depressions (F16) (**MLRA 72 & 73 of LRR H**)

Indicators for Problematic Hydric Soils[3]:

- ___ 1 cm Muck (A9) (**LRR 1, J**)
- ___ Coast Prairie Redox (A16) (**LRR F, G, H**)
- ___ Dark Surface (S7) (**LRR G**)
- ___ High Plains Depressions (F16) (**LRR H outside of MLRA 72 & 73**)
- ___ Reduced Vertic (F18)
- ___ Red Parent Material (TF2)
- ___ Other (Explain in Remarks)

[3]Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic

Restrictive Layer (if present):

Type: ___

Depth (inches): ___

Hydric Soil Present? **Yes** X **No** ___

Remarks: Soils meet hydric soil criterion.

HYDROLOGY

Wetland Hydrology Indicators:

Primary Indicators (minimum of one required; check all that apply)

- ___ Surface Water (A1)
- ___ High Water Table (A2)
- ___ Saturation (A3)
- X Water Marks (B1)
- X Sediment Deposits (B2)
- ___ Drift Deposits (B3)
- X Agal Mat or Crust (B4)
- ___ Iron Deposits (B5)
- ___ Inundation Visible on Aerial Imagery (B7)
- ___ Water-Stained Leaves (B9)
- ___ Salt Crust (B11)
- ___ Aquatic Invertebrates (B13)
- ___ Hydrogen Sulfide Odor (C1)
- ___ Dry-Season Water Table (C2)
- X Oxidized Rhizospheres on Living Roots (C3) (**where not tilled**)
- ___ Presence of Reduced Iron (C4)
- ___ Thin Muck Surface (C7)
- ___ Other (Explain in Remarks)

Secondary Indictors (minimum of two required)

- ___ Surface Soil Cracks (B6)
- ___ Sparsely Vegetated Concave Surface (B8)
- ___ Drainage Patterns (B10)
- ___ Oxidized Rhizospheres on Living Roots (C3) (**where tilled**)
- ___ Crayfish burrows (C8)
- ___ Saturation Visible on Aerial Imagery (C9)
- ___ Geomorphic Position (D2)
- X FAC-Neutral Test (D5)
- ___ Frost-Heave Hummocks (D7) (**LRR F**)

Field Observations:

Surface Water Present? Yes ___ No X Depth (inches): NA

Water Table Present? Yes ___ No X Depth (inches): NA

Saturation Present? (includes capillary fringe) Yes ___ No X Depth (inches): NA

Wetland Hydrology Present? **Yes** X **No** ___

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks: Hydrology criterion met.

WETLAND DETERMINATION DATA FORM – Great Plains Region

Project/Site: IH 35W (North) - Area Crossing 12: unnamed tributary to Big Fossil Creek City/County: Fort Worth, Tarrant County Sampling Date: 2/25/2009

Applicant/Owner: TxDOT State: TX Sampling Point: 16

Investigator(s): ARC, MB Section, Township, Range: Not applicable

Landform (hillslope, terrace, etc.): Hillslope Local relief (concave, convex, none): Convex Slope (%): Not available

Subregion (LRR): J Lat: 32.891249 Long: - 97.316929 Datum: WGS84

Soil Map Unit Name: Slidell clay, 1 to 3 percent slopes NWI Classification: U - Upland

Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No ____ (If no, explain in Remarks.)

Are Vegetation ____ , Soil ____ , or Hydrology ____ Significantly disturbed? Are "Normal Circumstances" present? Yes X No ____

Are Vegetation ____ , Soil ____ , or Hydrology ____ Naturally problematic? (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes ____	No X	Is the Sampled Area Within a Wetland?	Yes ____ No X
Hydric Soil Present?	Yes ____	No X		
Wetland Hydrology Present?	Yes ____	No X		

Remarks: Sampling location does not meet any of the three wetland criteria.

VEGETATION – Use scientific names of plants.

Tree Stratum (Plot size: 5' x 5')	Absolute% Cover	Dominant Species?	Indicator Status
1. *Celtis laevigata*	10	X	FAC
2.			
3.			
4.			
	10 = % Total Cover		
Sapling/Shrub Stratum (Plot size: 5' x 5')			
1. *Celtis laevigata*	15	X	FAC
2.			
3.			
4.			
5.			
	15 = % Total Cover		
Herb Stratum (Plot size: 5' radius)			
1. *Cynodon dactylon*	50	X	FACU+
2. *Lolium perenne*	20	X	FACU
3. *Sorghum halapense*	5		FACU
4.			
5.			
6.			
7.			
8.			
9.			
10.			
	75 = % Total Cover		
Woody Vine Stratum (Plot size: ____)			
1.			
2.			
	0 = % Total Cover		

% Bare Ground in Herb Stratum 25

Dominance Test worksheet:

Number of Dominant Species That Are OBL, FACW, or FAC (excluding FAC-): 2 (A)

Total Number of Dominant Species Across All Strata: 4 (B)

Percent of Dominant Species That Are OBL, FACW, or FAC: 50 (A/B)

Prevalence Index worksheet:

Total % Cover of:			Multiply by:
OBL species	0	x 1 =	0
FACW species	0	x 2 =	0
FAC species	25	x 3 =	75
FACU species	75	x 4 =	300
UPL species	0	x 5 =	0
Column Totals:	100 (A)		375 (B)

Prevalence Index = B/A = 375/100 (3.75)

Hydrophytic Vegetation Indicators:

___ Dominance Test is >50%

___ Prevalence Index is ≤3.0[1]

___ Morphological Adaptations[1] (Provide supporting data in Remarks or on separate sheet)

___ Problematic Hydrophytic Vegetation[1] (Explain)

[1]Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.

Hydrophytic Vegetation Present? **Yes** ____ **No** X

Remarks: Vegetation does not meet hydrophytic vegetation criterion.

SOIL

Sampling Point: 16

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)

Depth (inches)	Matrix Color (moist)	Matrix %	Redox Features Color (moist)	Redox %	Type[1]	Loc[2]	Texture	Remarks
0-16	10YR 4/2	100					Clay	

[1]Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. [2]Location: PL=Pore Lining, M=Matrix.

Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)

- ____ Histols (A1)
- ____ Histic Epipedon (A2)
- ____ Black Histic (A3)
- ____ Hydrogen Sulfide (A4)
- ____ Stratified Layers (A5) (**LRR F**)
- ____ 1 cm Muck (A9) (**LRR F, G, H**)
- ____ Depleted Below Dark Surface (A11)
- ____ Thick Dark Surface (A12)
- ____ Sandy Mucky Mineral (S1)
- ____ 2.5 cm Mucky Peat or Peat (S2) (**LRR G, H**)
- ____ 5 cm Mucky Peat or Peat (S3) (**LRR F**)
- ____ Sandy Gleyed Matrix (S4)
- ____ Sandy Redox (S5)
- ____ Stripped Matrix (S6)
- ____ Loamy Mucky Mineral (F1)
- ____ Loamy Gleyed Matrix (F2)
- ____ Depleted Matrix (F3)
- ____ Redox Dark Surface (F6)
- ____ Depleted Dark Surface (F7)
- ____ Redox Depressions (F8)
- ____ High Plains Depressions (F16) (**MLRA 72 & 73 of LRR H**)

Indicators for Problematic Hydric Soils[3]:

- ____ 1 cm Muck (A9) (**LRR 1, J**)
- ____ Coast Prairie Redox (A16) (**LRR F, G, H**)
- ____ Dark Surface (S7) (**LRR G**)
- ____ High Plains Depressions (F16) (**LRR H outside of MLRA 72 & 73**)
- ____ Reduced Vertic (F18)
- ____ Red Parent Material (TF2)
- ____ Other (Explain in Remarks)

[3]Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic

Restrictive Layer (if present):

Type: ____

Depth (inches): ____

Hydric Soil Present? **Yes** ____ **No** X

Remarks: Hydric soil indicators were not observed.

HYDROLOGY

Wetland Hydrology Indicators:

Primary Indicators (minimum of one required; check all that apply)

- ____ Surface Water (A1)
- ____ High Water Table (A2)
- ____ Saturation (A3)
- ____ Water Marks (B1)
- ____ Sediment Deposits (B2)
- ____ Drift Deposits (B3)
- ____ Agal Mat or Crust (B4)
- ____ Iron Deposits (B5)
- ____ Inundation Visible on Aerial Imagery (B7)
- ____ Water-Stained Leaves (B9)
- ____ Salt Crust (B11)
- ____ Aquatic Invertebrates (B13)
- ____ Hydrogen Sulfide Odor (C1)
- ____ Dry-Season Water Table (C2)
- ____ Oxidized Rhizospheres on Living Roots (C3) (**where not tilled**)
- ____ Presence of Reduced Iron (C4)
- ____ Thin Muck Surface (C7)
- ____ Other (Explain in Remarks)

Secondary Indictors (minimum of two required)

- ____ Surface Soil Cracks (B6)
- ____ Sparsely Vegetated Concave Surface (B8)
- ____ Drainage Patterns (B10)
- ____ Oxidized Rhizospheres on Living Roots (C3) (**where tilled**)
- ____ Crayfish burrows (C8)
- ____ Saturation Visible on Aerial Imagery (C9)
- ____ Geomorphic Position (D2)
- ____ FAC-Neutral Test (D5)
- ____ Frost-Heave Hummocks (D7) (**LRR F**)

Field Observations:

Surface Water Present? Yes ____ No X Depth (inches): NA

Water Table Present? Yes ____ No X Depth (inches): NA

Saturation Present? (includes capillary fringe) Yes ____ No X Depth (inches): NA

Wetland Hydrology Present? **Yes** ____ **No** X

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks: No primary or secondary hydrology indicators were present.

WETLAND DETERMINATION DATA FORM – Great Plains Region

Project/Site: IH 35W (North) - Area Crossing 13: unnamed tributary to Big Fossil Creek City/County: Fort Worth, Tarrant County Sampling Date: 2/25/2009

Applicant/Owner: TxDOT State: TX Sampling Point: 17

Investigator(s): ARC, MB Section, Township, Range: Not applicable

Landform (hillslope, terrace, etc.): Hillslope Local relief (concave, convex, none): Convex Slope (%): Not available

Subregion (LRR): J Lat: 32.880487 Long: - 97.316118 Datum: WGS84

Soil Map Unit Name: Slidell clay, 1 to 3 percent slopes NWI Classification: U - Upland

Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No ____ (If no, explain in Remarks.)

Are Vegetation ____ , Soil ____ , or Hydrology ____ Significantly disturbed? Are "Normal Circumstances" present? Yes X No ____

Are Vegetation ____ , Soil ____ , or Hydrology ____ Naturally problematic? (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes ____	No X	Is the Sampled Area		
Hydric Soil Present?	Yes ____	No X	Within a Wetland?	Yes ____	No X
Wetland Hydrology Present?	Yes ____	No X			

Remarks: Sampling location does not meet any of the three wetland criteria.

VEGETATION – Use scientific names of plants.

Tree Stratum (Plot size: ____)	Absolute% Cover	Dominant Species?	Indicator Status
1.			
2.			
3.			
4.			
	0 = % Total Cover		
Sapling/Shrub Stratum (Plot size: 5' x 5')			
1. *Robinia pseudoacacia*	5	X	FACU-
2.			
3.			
4.			
5.			
	5 = % Total Cover		
Herb Stratum (Plot size: 5' radius)			
1. *Cynodon dactylon*	30	X	FACU+
2. *Ambrosia psilostachya*	20	X	FAC-
3. *Sorghum halapense*	10		FAC
4. *Sinapis arvensis*	5		UPL
5. *Allium canadense*	5		FAC-
6. *Lolium perenne*	5		FACU
7.			
8.			
9.			
10.			
	75 = % Total Cover		
Woody Vine Stratum (Plot size: ____)			
1.			
2.			
	0 = % Total Cover		

% Bare Ground in Herb Stratum 25

Dominance Test worksheet:

Number of Dominant Species That Are OBL, FACW, or FAC (excluding FAC-): 0 (A)

Total Number of Dominant Species Across All Strata: 3 (B)

Percent of Dominant Species That Are OBL, FACW, or FAC: 0 (A/B)

Prevalence Index worksheet:

Total % Cover of:			Multiply by:
OBL species	0	x 1 =	0
FACW species	0	x 2 =	0
FAC species	35	x 3 =	105
FACU species	40	x 4 =	160
UPL species	5	x 5 =	25
Column Totals:	80 (A)		290 (B)

Prevalence Index = B/A = 290/80 (3.63)

Hydrophytic Vegetation Indicators:

___ Dominance Test is >50%

___ Prevalence Index is ≤3.0[1]

___ Morphological Adaptations[1] (Provide supporting data in Remarks or on separate sheet)

___ Problematic Hydrophytic Vegetation[1] (Explain)

[1]Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.

Hydrophytic Vegetation Present? **Yes** ____ **No** X

Remarks: Vegetation does not meet hydrophytic vegetation criterion.

SOIL

Sampling Point: 17

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)

Depth (inches)	Matrix Color (moist)	Matrix %	Redox Features Color (moist)	Redox %	Type[1]	Loc[2]	Texture	Remarks
0-16	7.5YR 4/1	95					Clay	5 percent is gravel

[1]Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. [2]Location: PL=Pore Lining, M=Matrix.

Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)

- ____ Histols (A1)
- ____ Histic Epipedon (A2)
- ____ Black Histic (A3)
- ____ Hydrogen Sulfide (A4)
- ____ Stratified Layers (A5) (**LRR F**)
- ____ 1 cm Muck (A9) (**LRR F, G, H**)
- ____ Depleted Below Dark Surface (A11)
- ____ Thick Dark Surface (A12)
- ____ Sandy Mucky Mineral (S1)
- ____ 2.5 cm Mucky Peat or Peat (S2) (**LRR G, H**)
- ____ 5 cm Mucky Peat or Peat (S3) (**LRR F**)
- ____ Sandy Gleyed Matrix (S4)
- ____ Sandy Redox (S5)
- ____ Stripped Matrix (S6)
- ____ Loamy Mucky Mineral (F1)
- ____ Loamy Gleyed Matrix (F2)
- ____ Depleted Matrix (F3)
- ____ Redox Dark Surface (F6)
- ____ Depleted Dark Surface (F7)
- ____ Redox Depressions (F8)
- ____ High Plains Depressions (F16) (**MLRA 72 & 73 of LRR H**)

Indicators for Problematic Hydric Soils[3]:

- ____ 1 cm Muck (A9) (**LRR 1, J**)
- ____ Coast Prairie Redox (A16) (**LRR F, G, H**)
- ____ Dark Surface (S7) (**LRR G**)
- ____ High Plains Depressions (F16) (**LRR H outside of MLRA 72 & 73**)
- ____ Reduced Vertic (F18)
- ____ Red Parent Material (TF2)
- ____ Other (Explain in Remarks)

[3]Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic

Restrictive Layer (if present):

Type: ____

Depth (inches): ____

Hydric Soil Present? **Yes** ____ **No** X

Remarks: Hydric soil indicators were not observed.

HYDROLOGY

Wetland Hydrology Indicators:

Primary Indicators (minimum of one required; check all that apply)

- ____ Surface Water (A1)
- ____ High Water Table (A2)
- ____ Saturation (A3)
- ____ Water Marks (B1)
- ____ Sediment Deposits (B2)
- ____ Drift Deposits (B3)
- ____ Agal Mat or Crust (B4)
- ____ Iron Deposits (B5)
- ____ Inundation Visible on Aerial Imagery (B7)
- ____ Water-Stained Leaves (B9)
- ____ Salt Crust (B11)
- ____ Aquatic Invertebrates (B13)
- ____ Hydrogen Sulfide Odor (C1)
- ____ Dry-Season Water Table (C2)
- ____ Oxidized Rhizospheres on Living Roots (C3) (**where not tilled**)
- ____ Presence of Reduced Iron (C4)
- ____ Thin Muck Surface (C7)
- ____ Other (Explain in Remarks)

Secondary Indictors (minimum of two required)

- ____ Surface Soil Cracks (B6)
- ____ Sparsely Vegetated Concave Surface (B8)
- ____ Drainage Patterns (B10)
- ____ Oxidized Rhizospheres on Living Roots (C3) (**where tilled**)
- ____ Crayfish burrows (C8)
- ____ Saturation Visible on Aerial Imagery (C9)
- ____ Geomorphic Position (D2)
- ____ FAC-Neutral Test (D5)
- ____ Frost-Heave Hummocks (D7) (**LRR F**)

Field Observations:

Surface Water Present? Yes ____ No X Depth (inches): NA

Water Table Present? Yes ____ No X Depth (inches): NA

Saturation Present? (includes capillary fringe) Yes ____ No X Depth (inches): NA

Wetland Hydrology Present? **Yes** ____ **No** X

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks: No primary or secondary hydrology indicators were present.

WETLAND DETERMINATION DATA FORM – Great Plains Region

Project/Site: IH 35W (North) - Area Crossing 14: unnamed tributary to Big Fossil Creek City/County: Fort Worth, Tarrant County Sampling Date: 2/25/2009

Applicant/Owner: TxDOT State: TX Sampling Point: 18

Investigator(s): ARC, MB Section, Township, Range: Not applicable

Landform (hillslope, terrace, etc.): Hillslope Local relief (concave, convex, none): Convex Slope (%): Not available

Subregion (LRR): J Lat: 32.893222 Long: - 97.326029 Datum: WGS84

Soil Map Unit Name: Slidell clay, 1 to 3 percent slopes NWI Classification: U - Upland

Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No ____ (If no, explain in Remarks.)

Are Vegetation ____ , Soil ____ , or Hydrology ____ Significantly disturbed? Are "Normal Circumstances" present? Yes X No ____

Are Vegetation ____ , Soil ____ , or Hydrology ____ Naturally problematic? (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes ____	No X	Is the Sampled Area Within a Wetland?	Yes ____ No X
Hydric Soil Present?	Yes ____	No X		
Wetland Hydrology Present?	Yes ____	No X		

Remarks: Sampling location does not meet any of the three wetland criteria.

VEGETATION – Use scientific names of plants.

Tree Stratum (Plot size: ____)	Absolute% Cover	Dominant Species?	Indicator Status
1.			
2.			
3.			
4.			
	0 = % Total Cover		
Sapling/Shrub Stratum (Plot size: ____)			
1.			
2.			
3.			
4.			
5.			
	0 = % Total Cover		
Herb Stratum (Plot size: 5' radius)			
1. *Cynodon dactylon*	40	X	FACU+
2. *Sorghum halapense*	10		FACU
3. *Panicum virgatum*	10		FACW
4. *Carduus nutans*	5		UPL
5. *Daucus carota*	5		UPL
6. *Ambrosia trifida*	5		FAC
7.			
8.			
9.			
10.			
	75 = % Total Cover		
Woody Vine Stratum (Plot size: ____)			
1.			
2.			
	0 = % Total Cover		

% Bare Ground in Herb Stratum 25

Dominance Test worksheet:

Number of Dominant Species That Are OBL, FACW, or FAC (excluding FAC-): 0 (A)

Total Number of Dominant Species Across All Strata: 1 (B)

Percent of Dominant Species That Are OBL, FACW, or FAC: 0 (A/B)

Prevalence Index worksheet:

Total % Cover of:			Multiply by:
OBL species	0	x 1 =	0
FACW species	10	x 2 =	20
FAC species	5	x 3 =	15
FACU species	50	x 4 =	200
UPL species	10	x 5 =	50
Column Totals:	75 (A)		285 (B)

Prevalence Index = B/A = 285/75 (3.8)

Hydrophytic Vegetation Indicators:

___ Dominance Test is >50%

___ Prevalence Index is ≤3.0[1]

___ Morphological Adaptations[1] (Provide supporting data in Remarks or on separate sheet)

___ Problematic Hydrophytic Vegetation[1] (Explain)

[1]Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.

Hydrophytic Vegetation Present? **Yes** ____ **No** X

Remarks: Vegetation does not meet hydrophytic vegetation criterion.

SOIL

Sampling Point: 18

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)

Depth (inches)	Matrix Color (moist)	Matrix %	Redox Features Color (moist)	Redox %	Type[1]	Loc[2]	Texture	Remarks
0-16	7.5YR 4/1	100					Clay	

[1]Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. [2]Location: PL=Pore Lining, M=Matrix.

Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)

- ____ Histols (A1)
- ____ Histic Epipedon (A2)
- ____ Black Histic (A3)
- ____ Hydrogen Sulfide (A4)
- ____ Stratified Layers (A5) (**LRR F**)
- ____ 1 cm Muck (A9) (**LRR F, G, H**)
- ____ Depleted Below Dark Surface (A11)
- ____ Thick Dark Surface (A12)
- ____ Sandy Mucky Mineral (S1)
- ____ 2.5 cm Mucky Peat or Peat (S2) (**LRR G, H**)
- ____ 5 cm Mucky Peat or Peat (S3) (**LRR F**)
- ____ Sandy Gleyed Matrix (S4)
- ____ Sandy Redox (S5)
- ____ Stripped Matrix (S6)
- ____ Loamy Mucky Mineral (F1)
- ____ Loamy Gleyed Matrix (F2)
- ____ Depleted Matrix (F3)
- ____ Redox Dark Surface (F6)
- ____ Depleted Dark Surface (F7)
- ____ Redox Depressions (F8)
- ____ High Plains Depressions (F16) (**MLRA 72 & 73 of LRR H**)

Indicators for Problematic Hydric Soils[3]:

- ____ 1 cm Muck (A9) (**LRR 1, J**)
- ____ Coast Prairie Redox (A16) (**LRR F, G, H**)
- ____ Dark Surface (S7) (**LRR G**)
- ____ High Plains Depressions (F16) (**LRR H outside of MLRA 72 & 73**)
- ____ Reduced Vertic (F18)
- ____ Red Parent Material (TF2)
- ____ Other (Explain in Remarks)

[3]Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic

Restrictive Layer (if present):

Type: ____

Depth (inches): ____

Hydric Soil Present? **Yes** ____ **No** X

Remarks: Hydric soil indicators were not observed.

HYDROLOGY

Wetland Hydrology Indicators:

Primary Indicators (minimum of one required; check all that apply)

- ____ Surface Water (A1)
- ____ High Water Table (A2)
- ____ Saturation (A3)
- ____ Water Marks (B1)
- ____ Sediment Deposits (B2)
- ____ Drift Deposits (B3)
- ____ Agal Mat or Crust (B4)
- ____ Iron Deposits (B5)
- ____ Inundation Visible on Aerial Imagery (B7)
- ____ Water-Stained Leaves (B9)
- ____ Salt Crust (B11)
- ____ Aquatic Invertebrates (B13)
- ____ Hydrogen Sulfide Odor (C1)
- ____ Dry-Season Water Table (C2)
- ____ Oxidized Rhizospheres on Living Roots (C3) (**where not tilled**)
- ____ Presence of Reduced Iron (C4)
- ____ Thin Muck Surface (C7)
- ____ Other (Explain in Remarks)

Secondary Indictors (minimum of two required)

- ____ Surface Soil Cracks (B6)
- ____ Sparsely Vegetated Concave Surface (B8)
- ____ Drainage Patterns (B10)
- ____ Oxidized Rhizospheres on Living Roots (C3) (**where tilled**)
- ____ Crayfish burrows (C8)
- ____ Saturation Visible on Aerial Imagery (C9)
- ____ Geomorphic Position (D2)
- ____ FAC-Neutral Test (D5)
- ____ Frost-Heave Hummocks (D7) (**LRR F**)

Field Observations:

Surface Water Present? Yes ____ No X Depth (inches): NA

Water Table Present? Yes ____ No X Depth (inches): NA

Saturation Present? (includes capillary fringe) Yes ____ No X Depth (inches): NA

Wetland Hydrology Present? **Yes** ____ **No** X

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks: No primary or secondary hydrology indicators were present.

Photo No. 1 – Looking northwest at Area Crossing 1 (no culvert extension).

Photo No. 2 – Looking northeast at Area Crossing 2 (no culvert extension).

Photo No. 3 - Looking west at Area Crossing 3 (no culvert extension).

Photo No. 4 – Looking southwest at Data Points at Area Crossing 4.

Photo No. 5 – Looking east at Data Points at Area Crossing 5.

Photo No. 6 – Looking southeast at a Data Point at Area Crossing 6.

Photo No. 7 – Looking southeast at a Data Point at Area Crossing 7.

Photo No. 8 – Looking northwest at Data Points at Area Crossing 8.

Photo No. 9 – Looking northwest at a Data Point at Area Crossing 9.

Photo No. 10 – Looking northwest at Data Points at Area Crossing 10.

Photo No. 11 – Looking south at Data Points at Area Crossing 11.

Photo No. 12 – Looking north at Data Points at Area Crossing 12.

Photo No. 13 – Looking north at a Data Point at Area Crossing 13.

Photo No. 14 – Looking west at Area Crossing 14.

Photo No. 15 – Looking east at a Data Point at Area Crossing 15.

Appendix B
MTP/STIP Pages

DISTRICT	COUNTY	CSJ	HWY	PHASE	CITY	PROJECT SPONSOR	YOE COST
FORT WORTH	TARRANT	0014-01-022	BU 287P	C	FORT WORTH	TXDOT	**$43,100,000**

LIMITS FROM: AT BYPASS CHANNEL; IN FORT WORTH
LIMITS TO: NEAR TRINITY RIVER
TIP DESCRIPTION: CONSTRUCT NEW 4 LANE BRIDGE AT PROPOSED LOCATION OF BYPASS CHANNEL FOR TRINITY RIVER NEAR CBD OF FORT WORTH
REMARKS: SAFETEA-LU EARMARK; TRINITY RIVER VISION AUTH. PAYING LOCAL CONTRIBUTION

REV DATE: 07/2010
MPO PROJECT ID: 52499
FUNDING CATEGORY: 10,LC
2030 MTP REFERENCE: TH1 132.0, F3001
2035 MTP REFERENCE: RSA1-132.0, MO3-002

Project History: TH1 132.0

Total Project Cost Information:

Preliminary Engineering:	$847,974
Right Of Way:	$0
Construction:	$43,100,000
Construction Engineering	$778,752
Contingencies:	$1,124,864
Indirects:	$1,088,522
Bond Financing:	$0
Total Project Cost:	**$46,940,112**

Cost of Approved Phases: **$43,100,000**

Authorized Funding by Category/Share:

	Federal	State	Regional	Local	Local Contribution	Funding By Category
Category 10:	$7,266,940	$0	$0	$1,602,360	$0	$8,869,300
Local Contribution:	$0	$0	$0	$0	$34,230,700	$34,230,700
Funding by Share:	$7,266,940	$0	$0	$1,602,360	$34,230,700	**$43,100,000**

DISTRICT	COUNTY	CSJ	HWY	PHASE	CITY	PROJECT SPONSOR	YOE COST
FORT WORTH	TARRANT	0014-16-255	IH 35W	C,E,R	FORT WORTH	TXDOT-FORT WORTH	**$181,805,000**

LIMITS FROM: IH 820
LIMITS TO: US 81/287
TIP DESCRIPTION: RECONSTRUCT ROADWAY 4 TO 4 LANES AND ADD 0 TO 4 MANAGED TOLL LANES WITH 2/3 TO 2/3/4 DISCONTINUOUS FRONTAGE ROADS
REMARKS: ADD PROJECT TO TIP/STIP

REV DATE: 02/2011
MPO PROJECT ID: 54106
FUNDING CATEGORY: PROP 12,PROP 14,ROW
2030 MTP REFERENCE: FT1 1140, FR1 1140, HM1 8120, FT1 1142, FR1 1142, FT1 1144, FR1 1144, HM1 8120
2035 MTP REFERENCE: FT1-5.40.1, FT1-5.40.2

Project History:

Total Project Cost Information:

Preliminary Engineering:	$10,000,000
Right Of Way:	$36,805,000
Construction:	$135,000,000
Construction Engineering	$0
Contingencies:	$0
Indirects:	$0
Bond Financing:	$0
Total Project Cost:	**$181,805,000**

Cost of Approved Phases: **$181,805,000**

Authorized Funding by Category/Share:

	Federal	State	Regional	Local	Local Contribution	Funding By Category
TXDOT ROW:	$29,444,000	$7,361,000	$0	$0	$0	$36,805,000
Prop 12:	$9,000,000	$1,000,000	$0	$0	$0	$10,000,000
Prop 14:	$121,500,000	$13,500,000	$0	$0	$0	$135,000,000
Funding by Share:	$159,944,000	$21,861,000	$0	$0	$0	**$181,805,000**

DISTRICT	COUNTY	CSJ	HWY	PHASE	CITY	PROJECT SPONSOR	YOE COST
FORT WORTH	TARRANT	0014-16-930	IH 35W	C	FORT WORTH	TXDOT-FORT WORTH	**$2,500,000**

LIMITS FROM: IH 820
LIMITS TO: US 81/287
TIP DESCRIPTION: RECONSTRUCT ROADWAY 4 TO 4 LANES AND ADD 0 TO 4 MANAGED TOLL LANES
REMARKS: ADD PROJECT TO TIP/STIP; PAYMENT FOR NORTH TARRANT EXPRESS; PE/ROW FOR THIS PROJECT LISTED IN CSJ 0014-16-255 AND CSJ 0014-16-252

REV DATE: 02/2011
MPO PROJECT ID: 53036
FUNDING CATEGORY: 1
2030 MTP REFERENCE: FT1 1140, FR1 1140, HM1 8120, FT1 1142, FR1 1142, FT1 1144, FR1 1144, HM1 8120
2035 MTP REFERENCE: FT1-5.40.1, FT1-5.40.2

Project History:

Total Project Cost Information:

Preliminary Engineering:	$0
Right Of Way:	$0
Construction:	$2,500,000
Construction Engineering	$0
Contingencies:	$0
Indirects:	$0
Bond Financing:	$0
Total Project Cost:	**$2,500,000**

Cost of Approved Phases: **$2,500,000**

Authorized Funding by Category/Share:

	Federal	State	Regional	Local	Local Contribution	Funding By Category
Category 1:	$2,000,000	$500,000	$0	$0	$0	$2,500,000
Funding by Share:	$2,000,000	$500,000	$0	$0	$0	**$2,500,000**

PHASE: C=CONSTRUCTION, E = ENGINEERING, R = ROW, T = TRANSFER

DISTRICT	COUNTY	CSJ	HWY	PHASE	CITY	PROJECT SPONSOR	YOE COST
FORT WORTH	TARRANT	0008-12-086	IH 20	C,E	FORT WORTH	FORT WORTH	**$842,562**

LIMITS FROM: AT HULEN STREET, IN FORT WORTH
LIMITS TO: ON-SYSTEM
TIP DESCRIPTION: ADD RIGHT AND LEFT TURN LANES AT IH 20 & HULEN, NB LEFT TURN LANES AT HULEN & BARWICK INCLUDING SIDEWALK/CROSSWALK IMPROVEMENTS AT BOTH LOCATIONS
REMARKS:

REV DATE: 07/2010
MPO PROJECT ID: 4126.1
FUNDING CATEGORY: 1,5
2030 MTP REFERENCE: TSM 2100
2035 MTP REFERENCE: TSM2-001
NOX (LBS/DAY): 0.70 VOC (LBS/DAY): 3.02

Project History:

Total Project Cost Information:

Preliminary Engineering:	$36,731
Right Of Way:	$0
Construction:	$805,831
Construction Engineering	$56,221
Contingencies:	$52,473
Indirects:	$47,150
Bond Financing:	$0
Total Project Cost:	**$998,406**

Cost of Approved Phases: **$842,562**

Authorized Funding by Category/Share:

	Federal	State	Regional	Local	Local Contribution	Funding By Category
Category 1:	$120,200	$30,050	$0	$0	$0	$150,250
Category 5:	$553,850	$19,000	$0	$119,462	$0	$692,312
Funding by Share:	$674,050	$49,050	$0	$119,462	$0	**$842,562**

FORT WORTH	TARRANT	0014-16-940	IH 35W	C	FORT WORTH	TXDOT-FORT WORTH	**$2,500,000**

LIMITS FROM: IH 820
LIMITS TO: US 81/287
TIP DESCRIPTION: RECONSTRUCT ROADWAY 4 TO 4 LANES AND ADD 0 TO 4 MANAGED TOLL LANES
REMARKS: ADD PROJECT TO TIP/STIP; PAYMENT FOR NORTH TARRANT EXPRESS; PE/ROW FOR THIS PROJECT LISTED IN CSJ 0014-16-255 AND CSJ 0014-16-252

REV DATE: 02/2011
MPO PROJECT ID: 54107
FUNDING CATEGORY: 1
2030 MTP REFERENCE: FT1 1140, FR1 1140, HM1 8120, FT1 1142, FR1 1142, FT1 1144, FR1 1144, HM1 8120
2035 MTP REFERENCE: FT1-5.40.1, FT1-5.40.2

Project History:

Total Project Cost Information:

Preliminary Engineering:	$0
Right Of Way:	$0
Construction:	$2,500,000
Construction Engineering	$0
Contingencies:	$0
Indirects:	$0
Bond Financing:	$0
Total Project Cost:	**$2,500,000**

Cost of Approved Phases: **$2,500,000**

Authorized Funding by Category/Share:

	Federal	State	Regional	Local	Local Contribution	Funding By Category
Category 1:	$2,000,000	$500,000	$0	$0	$0	$2,500,000
Funding by Share:	$2,000,000	$500,000	$0	$0	$0	**$2,500,000**

FORT WORTH	HOOD	0080-03-049	US 377	C,E,R	GRANBURY	TXDOT	**$12,044,629**

LIMITS FROM: END OF BRAZOS RIVER BRIDGE
LIMITS TO: 0.615 SOUTH OF BRAZOS RIVER BRIDGE
TIP DESCRIPTION: WIDEN 4 LANE TO 6 LANE DIVIDED WITH INTERCHANGE AT SH 144 AND FM 51
REMARKS: PASS THRU FINANCE PROJECT

REV DATE: 07/2010
MPO PROJECT ID: 54018
FUNDING CATEGORY: LC
2030 MTP REFERENCE: TH1 903.0
2035 MTP REFERENCE: RSA1-450.3

Project History:

Total Project Cost Information:

Preliminary Engineering:	$515,907
Right Of Way:	$1,000,000
Construction:	$10,528,722
Construction Engineering	$526,436
Contingencies:	$684,367
Indirects:	$662,257
Bond Financing:	$0
Total Project Cost:	**$13,917,689**

Cost of Approved Phases: **$12,044,629**

Authorized Funding by Category/Share:

	Federal	State	Regional	Local	Local Contribution	Funding By Category
Local Contribution:	$0	$0	$0	$0	$12,044,629	$12,044,629
Funding by Share:	$0	$0	$0	$0	$12,044,629	**$12,044,629**

PHASE: C=CONSTRUCTION, E = ENGINEERING, R = ROW, T = TRANSFER

DISTRICT	COUNTY	CSJ	HWY	PHASE	CITY	PROJECT SPONSOR	YOE COST
FORT WORTH	TARRANT	0014-16-179	IH 35W	C,R	FORT WORTH	TXDOT-FORT WORTH	**$544,982,000**

LIMITS FROM: IH 820
LIMITS TO: IH 30
TIP DESCRIPTION: RECONSTRUCT IH 35W TO 4/6/8 LANES WITH 4 CONCURRENT HOV/MANAGED LANES FROM IH 820 TO SH 121 WITH FULL INTERCHANGE AT IH 820 & DISCONTINUOUS 2/3 LANE FRONTAGE ROADS AND RECONSTRUCT IH 35W TO 8 LANES WITH 2 CONCURRENT HOV/MANAGED LANES FROM SH 121 TO IH 30/US 287
REMARKS: TIP AMENDMENT; ADD PROJECT TO TIP/STIP

REV DATE: 03/2011
MPO PROJECT ID: 54102
FUNDING CATEGORY: TXDOT ROW, LC
2030 MTP REFERENCE: FT1 1142, FT1 1144, HM1 8120, IN1 16701
2035 MTP REFERENCE: FT1-5.50.1, FT1-5.50.2, IN1-5.150.1

Ignore Highlight - This CSJ is for Segment 3A

Project History:

Total Project Cost Information:

Preliminary Engineering:	$4,352,840
Right Of Way:	$137,740,000
Construction:	$407,242,000
Construction Engineering	$4,352,840
Contingencies:	$7,995,012
Indirects:	$5,676,459
Bond Financing:	$0
Total Project Cost:	**$567,359,151**

Cost of Approved Phases: **$544,982,000**

Authorized Funding by Category/Share:

	Federal	State	Regional	Local	Local Contribution	Funding By Category
TXDOT ROW:	$110,192,000	$27,548,000	$0	$0	$0	$137,740,000
Local Contribution:	$0	$0	$0	$0	$407,242,000	$407,242,000
Funding by Share:	$110,192,000	$27,548,000	$0	$0	$407,242,000	**$544,982,000**

FORT WORTH	TARRANT	0014-16-950	IH 35W	C	FORT WORTH	TXDOT-FORT WORTH	**$2,500,000**

LIMITS FROM: IH 820
LIMITS TO: US 81/287
TIP DESCRIPTION: RECONSTRUCT ROADWAY 4 TO 4 LANES AND ADD 0 TO 4 MANAGED TOLL LANES
REMARKS: ADD PROJECT TO TIP/STIP; PAYMENT FOR NORTH TARRANT EXPRESS; PE/ROW FOR THIS PROJECT LISTED IN CSJ 0014-16-255 AND CSJ 0014-16-252

REV DATE: 02/2011
MPO PROJECT ID: 54108
FUNDING CATEGORY: 1
2030 MTP REFERENCE: FT1 1140, FR1 1140, HM1 8120, FT1 1142, FR1 1142, FT1 1144, FR1 1144, HM1 8120
2035 MTP REFERENCE: FT1-5.40.1, FT1-5.40.2

Project History:

Total Project Cost Information:

Preliminary Engineering:	$0
Right Of Way:	$0
Construction:	$2,500,000
Construction Engineering	$0
Contingencies:	$0
Indirects:	$0
Bond Financing:	$0
Total Project Cost:	**$2,500,000**

Cost of Approved Phases: **$2,500,000**

Authorized Funding by Category/Share:

	Federal	State	Regional	Local	Local Contribution	Funding By Category
Category 1:	$2,000,000	$500,000	$0	$0	$0	$2,500,000
Funding by Share:	$2,000,000	$500,000	$0	$0	$0	**$2,500,000**

FORT WORTH	HOOD	0080-04-081	US 377	C,E,R	GRANBURY	TXDOT	**$46,850,338**

LIMITS FROM: EAST OF OLD ACTION HIGHWAY
LIMITS TO: END OF BRAZOS RIVER BRIDGE IN GRANBURY
TIP DESCRIPTION: WIDEN 4 LANE CONTINUOUS TWO-WAY LEFT TURN LANE TO 6 LANE DIVIDED WITH INTERCHANGE AT BU 377H
REMARKS: TX356 (EARMARK); PASS THROUGH FINANCE PROJECT; LOCAL CONTRIBUTION PAID BY GRANBURY

REV DATE: 07/2010
MPO PROJECT ID: 54019
FUNDING CATEGORY: 10,LC
2030 MTP REFERENCE: TH1 903.0
2035 MTP REFERENCE: RSA1-450.3

Project History:

Total Project Cost Information:

Preliminary Engineering:	$1,991,546
Right Of Way:	$4,215,000
Construction:	$40,643,792
Construction Engineering	$1,828,971
Contingencies:	$3,657,941
Indirects:	$2,556,494
Bond Financing:	$0
Total Project Cost:	**$54,893,744**

Cost of Approved Phases: **$46,850,338**

Authorized Funding by Category/Share:

	Federal	State	Regional	Local	Local Contribution	Funding By Category
Category 10:	$2,994,000	$748,500	$0	$0	$0	$3,742,500
Local Contribution:	$0	$0	$0	$0	$43,107,838	$43,107,838
Funding by Share:	$2,994,000	$748,500	$0	$0	$43,107,838	**$46,850,338**

PHASE: C=CONSTRUCTION, E = ENGINEERING, R = ROW, T = TRANSFER

DISTRICT	COUNTY	CSJ	HWY	PHASE	CITY	PROJECT SPONSOR
FORT WORTH	PARKER	0008-09-910	FM 1187	C	OTHER	TXDOT-FORT WORTH

LIMITS FROM: IH 20
LIMITS TO: BAILEY RANCH ROAD
TIP DESCRIPTION: WIDEN ROADWAY 2 TO 4 LANES WITH INTERSECTION IMPROVEMENTS (PHASE II)
REMARKS: ADD PROJECT TO APPENDIX D

REV DATE: 02/2011
MPO PROJECT ID: 11897
2030 MTP REFERENCE: TSM 2100, TH2 256
2035 MTP REFERENCE: TSM2-001, RSA1-176.5

Project History:

FORT WORTH	TARRANT	0008-13-210	IH 820	E,R	TARRANT	TXDOT

LIMITS FROM: IH 820 NB/SB OVER W FORK OF TRINITY
LIMITS TO: AND WEST FORK OF TRINITY RELIEF
TIP DESCRIPTION: REPLACE BRIDGES AS A PART OF IH 820 CORRIDOR IMPROVEMENTS
REMARKS: APPROVED FOR REPLACEMENT KM'S EMAIL 2/23/2007

REV DATE: 07/2010
MPO PROJECT ID: 53101
2030 MTP REFERENCE: FT1 1625
2035 MTP REFERENCE: FT1-151.20.1

Project History:

FORT WORTH	TARRANT	0008-13-221	IH 820	E	FORT WORTH	TXDOT

LIMITS FROM: APPROX. 0.50 MI S OF TRINITY BLVD.
LIMITS TO: SH 121
TIP DESCRIPTION: INTERIM WIDENING TO PROVIDE 2 ADDITIONAL LANES
REMARKS:

REV DATE: 07/2010
MPO PROJECT ID: 54062
2030 MTP REFERENCE: FT1 1620
2035 MTP REFERENCE: FT1-151.20.1

Project History:

FORT WORTH	TARRANT	0008-16-036	CS	C	FORT WORTH	FORT WORTH

LIMITS FROM: ON BRYANT IRVIN RD
LIMITS TO: AT IH 20
TIP DESCRIPTION: INCREASE CAPACITY OF THE BRYANT IRVIN BRIDGE FROM 6 TO 8 LANES BY ADDING 2 ADDITIONAL INTERIOR LEFT TURN LANES
REMARKS: LPAFA NEEDED FOR CONSTRUCTION PORTION; TXDOT DOING DESIGN (UNDERWAY EST COMPLETE 02/2011); 325001902

REV DATE: 07/2010
MPO PROJECT ID: 11701
2030 MTP REFERENCE: TSM 2100
2035 MTP REFERENCE: TSM2-001

Project History:

FORT WORTH	TARRANT	0014-16-252	IH 35W	C,E,R	FORT WORTH	TXDOT-FORT WORTH

LIMITS FROM: IH 820
LIMITS TO: US 81/287
TIP DESCRIPTION: WIDEN 4 LANES TO 8 LANES WITH INTERMITTENT AUXILIARY LANES AND 2/3 TO 2/3/4 FRONTAGE ROADS CONNECTIONS; AND ADD 2 MANAGED LANES FROM BASSWOOD TO IH 820 FOR AN ULTIMATE OF 6 MANAGED LANES
REMARKS: ADD PROJECT TO APPENDIX D

REV DATE: 02/2011
MPO PROJECT ID: 52541
2030 MTP REFERENCE: FT1 1140, FR1 1140, HM1 8120, FT1 1142, FR1 1142, FT1 1144, FR1 1144, HM1 8120
2035 MTP REFERENCE: FT1-5.40.1, FT1-5.40.2

Project History:

FORT WORTH	TARRANT	0014-16-931	IH 35W	C,E,R	FORT WORTH	FORT WORTH

LIMITS FROM: IH 820
LIMITS TO: IH 30
TIP DESCRIPTION: WIDEN 4/6/8 TO 8 LANES WITH COLLECTOR DISTRIBUTOR INTERMITTENT AUXILIARY LANES AND 2 TO 2/3 FRONTAGE ROAD CONNECTIONS FROM IH 820 TO SH 183, 2 TO 3/4 FROM SH 183 TO SH 121, AND 0 TO 2/3 FROM SH 121 TO IH 30
REMARKS: ADD PROJECT TO APPENDIX D

REV DATE: 02/2011
MPO PROJECT ID: N/A
2030 MTP REFERENCE: FT1 1142, FT1 1144, HM1 8120
2035 MTP REFERENCE: FT1-5.50.1, FT1-5.50.2

Project History:

FORT WORTH	HOOD	0080-04-090	US 377	E,R	HOOD	TXDOT

LIMITS FROM: AT-GRADE RR CROSSINGS ON
LIMITS TO: US 377 AND SH 171 IN CRESSON
TIP DESCRIPTION: CONSTRUCT RR GRADE SEPARATION TO OVERPASS BOTH RRS
REMARKS:

REV DATE: 07/2010
MPO PROJECT ID: 54061
2030 MTP REFERENCE: TSM 2100
2035 MTP REFERENCE: TSM2-001

Project History:

PHASE: C=CONSTRUCTION, E = ENGINEERING, R = ROW, T = TRANSFER

DISTRICT	COUNTY	CSJ	HWY	PHASE	CITY	PROJECT SPONSOR
FORT WORTH	HOOD	0080-04-911	US 377	E,R	HOOD	TXDOT

LIMITS FROM: FM 167 NORTH
LIMITS TO: EAST OF OLD ACTON HIGHWAY
TIP DESCRIPTION: WIDEN 4 LANE TO 6 LANE DIVIDED
REMARKS:

REV DATE: 07/2010
MPO PROJECT ID: 54071
2030 MTP REFERENCE: TH1 903.0
2035 MTP REFERENCE: RSA1-450.3

Project History:

FORT WORTH	TARRANT	0081-01-912	US 377	C	HALTOM CITY	HALTOM CITY

LIMITS FROM: AT EAST BELKNAP STREET
LIMITS TO: IN HALTOM CITY
TIP DESCRIPTION: INTERSECTION IMPROVEMENTS TO REDESIGN INTERCHANGE TO STANDARD 4-WAY SIGNALIZED INTERSECTION
REMARKS:

REV DATE: 07/2010
MPO PROJECT ID: 20154
2030 MTP REFERENCE: TSM 2100, TSM 2400
2035 MTP REFERENCE: TSM2-001, TSM2-002
NOX (LBS/DAY): 0.25 VOC (LBS/DAY): 1.08

Project History:

~~FORT WORTH~~	~~TARRANT~~	~~0081-12-041~~	~~IH 35W~~	~~C~~	~~FORT WORTH~~	~~TXDOT-FORT WORTH~~

~~LIMITS FROM:~~ ~~US 81/287~~
~~LIMITS TO:~~ ~~DENTON COUNTY LINE~~
~~TIP DESCRIPTION:~~ ~~RECONSTRUCT FROM 4 TO 6 LANES WITH 4 HOV/MANAGED LANES AND 4/6 FRONTAGE ROAD LANES~~
~~REMARKS:~~ ~~TIP AMENDMENT; ADD PROJECT TO APPENDIX D~~

~~REV DATE:~~ ~~03/2011~~
~~MPO PROJECT ID:~~ ~~54104~~
~~2030 MTP REFERENCE:~~ ~~FT1 1130, FT1 1132, FR1 1130, FR1 1132, HM1 8100, HM1 8300, HM1 8105~~
~~2035 MTP REFERENCE:~~ ~~FT1-5.20.2~~

Replaced with April 27, 2011 TIP Sheet

~~**Project History:**~~

~~FORT WORTH~~	~~TARRANT~~	~~0081-12-920~~	~~IH 35W~~	~~E~~	~~FORT WORTH~~	~~TXDOT~~

~~LIMITS FROM:~~ ~~US 81/287~~
~~LIMITS TO:~~ ~~SH 170~~
~~TIP DESCRIPTION:~~ ~~ADD MANAGED LANE FACILITY - 4 MANAGED LANES~~
~~REMARKS:~~

~~REV DATE:~~ ~~07/2010~~
~~MPO PROJECT ID:~~ ~~53037~~
~~2030~~ MTP REFERENCE: HM1 8105
~~2035 MTP REFERENCE: FT1-5.30.1~~

Replaced with April 27, 2011

~~**Project History:**~~

FORT WORTH	TARRANT	0081-13-904	IH 35W	C	FORT WORTH	TXDOT-FORT WORTH

LIMITS FROM: DENTON COUNTY LINE
LIMITS TO: EAGLE PARKWAY
TIP DESCRIPTION: RECONSTRUCT FROM 4 TO 6 LANES WITH 4 HOV/MANAGED LANES AND 4/6 FRONTAGE ROAD LANES
REMARKS: TIP AMENDMENT; ADD PROJECT TO APPENDIX D

REV DATE: 03/2011
MPO PROJECT ID: 54104
2030 MTP REFERENCE: FT1 1130, FR1 1130, HM1 8100, HM1 8300
2035 MTP REFERENCE: FT1-5.20.2

Project History:

FORT WORTH	TARRANT	0094-02-912	SH 183	C	RICHLAND HILLS	TXDOT-FT WORTH

LIMITS FROM: BOOTH CALLOWAY DRIVE
LIMITS TO: RUFE SNOW DRIVE; IN RICHLAND HILLS
TIP DESCRIPTION: INTERSECTION IMPROVEMENTS TO ADD RIGHT TURN LANES, CURB & GUTTER AND SIDEWALKS AT 3 LOCATIONS
REMARKS:

REV DATE: 07/2010
MPO PROJECT ID: 20159
2030 MTP REFERENCE: TSM 2100, BP 2002
2035 MTP REFERENCE: TSM2-001, BP2-017

Project History:

FORT WORTH	TARRANT	0171-04-049	SH 199	E	FORT WORTH	TXDOT

LIMITS FROM: 0.7 MI S OF DENVER TRAIL
LIMITS TO: 0.6 MI N OF FM 1886
TIP DESCRIPTION: CONST 6 LN FWY, GR SEP AT NINE MILE AZLE RD & HANGER CUTOFF RD AND TRAFFIC MANAGEMENT SYSTEM
REMARKS:

REV DATE: 07/2010
MPO PROJECT ID: 54076
2030 MTP REFERENCE: FR1 2115, FT1 1750
2035 MTP REFERENCE: FT1-14.20.5

Project History:

PHASE: C=CONSTRUCTION, E = ENGINEERING, R = ROW, T = TRANSFER

Attachment 1

DISTRICT	COUNTY	CSJ	HWY	PHASE	CITY	PROJECT SPONSOR	YOE COST
FC VORTH	TARRANT	0081-12-041	IH 35W	E	FORT WORTH	TXDOT-FORT WORTH	$4,202,000

LI. , FROM: US 81/287
REV DATE: 05/2011
LIMITS TO: DENTON COUNTY LINE
MPO PROJECT ID: 54104.1
TIP DESCRIPTION: RECONSTRUCT FROM 4 TO 6 LANES WITH 4 MANAGED TOLL LANES AND 4 FRONTAGE ROAD LANES
FUNDING CATEGORY: 10
MTP REFERENCE: FT1-5.30.1
REMARKS: ADD PROJECT TO TIP/STIP; CONGRESSIONAL EARMARK; CAT 10 - IMD

Typo should be 5.20.2

Project History: WAS TIP 54104; CONSTRUCTION IN APPENDIX D

Total Project Cost Information:

Preliminary Engineering:	$4,202,000
Right Of Way:	$0
Construction:	$320,000,000
Construction Engineering	$768,588
Contingencies:	$1,110,183
Indirects:	$828,367
Bond Financing:	$0
Total Project Cost:	**$326,909,138**

Cost of Approved Phases: **$4,202,000**

Authorized Funding by Category/Share:

	Federal	State	Regional	Local	Local Contribution	Funding By Category
Category 10:	$3,781,800	$420,200	$0	$0	$0	$4,202,000
Funding by Share:	$3,781,800	$420,200	$0	$0	$0	$4,202,000

FORT WORTH	TARRANT	0902-48-645	CS	E	HALTOM CITY	HALTOM CITY	$50,000

LIMITS FROM: HALTOM CITY RR CROSSINGS
REV DATE: 05/2011
LIMITS TO: HALTOM RD & MCLEAN ST AT UPRR AND GLENVIEW DR, JANADA, & HALTOM RD AT DART LINE
MPO PROJECT ID: 11263.2
TIP DESCRIPTION: INSTALL GATES AT HALTOM RD & DART, UPGRADE ELECTRONICS AT ALL OTHER LOCATIONS IN PREPARATION FOR A QUIET ZONE
FUNDING CATEGORY: 7
MTP REFERENCE: FP2-350
REMARKS: REVISE FUNDING

Project History: ADDITIONAL $20,000 TOTAL OBLIGATED IN FY 2006 FOR PE

Total Project Cost Information:

Preliminary Engineering:	$50,000
Right Of Way:	$0
Construction:	$200,000
Construction Engineering	$0
Contingencies:	$0
Indirects:	$0
Bond Financing:	$0
Total Project Cost:	**$250,000**

Cost of Approved Phases: **$50,000**

Authorized Funding by Category/Share:

	Federal	State	Regional	Local	Local Contribution	Funding By Category
Category 7:	$40,000	$0	$0	$10,000	$0	$50,000
Funding by Share:	$40,000	$0	$0	$10,000	$0	$50,000

FORT WORTH	TARRANT	0902-48-926	VA	E	KENNEDALE	KENNEDALE	$115,246

LIMITS FROM: ON KENNEDALE PKWY FROM BOWMAN SPRINGS RD TO NEW HOPE RD
REV DATE: 05/2011
LIMITS TO: ON NEW HOPE RD FROM KENNEDALE PARKWAY TO THE UNION PACIFIC RAILROAD TRACKS
MPO PROJECT ID: 11384
TIP DESCRIPTION: PEDESTRIAN AMENITIES AND LANDSCAPING FOR CONNECTING KENNEDALE: REVITALIZING THE CITY CENTER PROJECT
FUNDING CATEGORY: 5
MTP REFERENCE: SD2-004
REMARKS: ADD PROJECT TO TIP/STIP

NOX (LBS/DAY): 0.07 VOC (LBS/DAY): 0.17

Project History: CONSTRUCTION IN APPENDIX D

Total Project Cost Information:

Preliminary Engineering:	$115,246
Right Of Way:	$0
Construction:	$1,037,209
Construction Engineering	$0
Contingencies:	$0
Indirects:	$0
Bo ancing:	$0
Total Project Cost:	**$1,152,455**

Cost of Approved Phases: **$115,246**

Authorized Funding by Category/Share:

	Federal	State	Regional	Local	Local Contribution	Funding By Category
Category 5:	$92,197	$0	$0	$23,049	$0	$115,246
Funding by Share:	$92,197	$0	$0	$23,049	$0	$115,246

PHASE: C=CONSTRUCTION, E = ENGINEERING, R = ROW, T = TRANSFER

Attachment 5

DISTRICT	COUNTY	CSJ	HWY	PHASE	CITY	PROJECT SPONSOR
F WORTH	TARRANT	0081-12-041	IH 35W	C	FORT WORTH	TXDOT-FORT WORTH

LIMITS FROM: US 81/287
LIMITS TO: DENTON COUNTY LINE
TIP DESCRIPTION: RECONSTRUCT FROM 4 TO 6 LANES WITH 4 MANAGED TOLL LANES AND 4 FRONTAGE ROAD LANES
REMARKS: ENG PHASE IN FY 2011; CONGRESSIONAL EARMARK; CAT 10 - IMD

REV DATE: 05/2011
MPO PROJECT ID: 54104.1
MTP REFERENCE: FT1-5.20.1

Typo should be 5.20.2

Project History:

FORT WORTH	TARRANT	0902-48-926	VA	C	KENNEDALE	KENNEDALE

LIMITS FROM: ON KENNEDALE PKWY FROM BOWMAN SPRINGS RD TO NEW HOPE RD
LIMITS TO: ON NEW HOPE RD FROM KENNEDALE PARKWAY TO THE UNION PACIFIC RAILROAD TRACKS
TIP DESCRIPTION: PEDESTRIAN AMENITIES AND LANDSCAPING FOR CONNECTING KENNEDALE: REVITALIZING THE CITY CENTER PROJECT
REMARKS: ENGINEERING PHASE IN FY 2011

REV DATE: 05/2011
MPO PROJECT ID: 11384
MTP REFERENCE: SD2-004
NOX (LBS/DAY): 0.07 VOC (LBS/DAY): 0.17

Project History:

FORT WORTH	TARRANT	0902-48-985	CS	C,E	VARIOUS	FWTA

LIMITS FROM: SOUTHWEST TO NORTHEAST CORRIDOR RAIL LINE PROJECT
LIMITS TO:
TIP DESCRIPTION: CONSTRUCTION OF NEW COMMUTER RAIL LINE
REMARKS: ADD ENGINEERING PHASE

REV DATE: 05/2011
MPO PROJECT ID: 11543.3
MTP REFERENCE: TR1-10315.1
NOX (LBS/DAY): 332.91 VOC (LBS/DAY): 266.75

Project History:

PHASE: C=CONSTRUCTION, E = ENGINEERING, R = ROW, T = TRANSFER

Non-regionally Significant Arterials Program	
Performance Measures	Non-regionally significant arterials must demonstrate level of service warrants based on an SOV analysis before federal funds can be applied.
Cost Estimate	$4,391,400,000

Projects

Freeway, Tollway, HOV/Managed Lanes Recommendation Summary

Fact Sheets Summary

revised July 6, 2011

Fact Sheet ID	Project Corridor	Location	Limits	MTP ID	Lane Summary *		Year Operational Between **	Responsible Agency ***	YOE Total Project Cost
					Existing	2035			
1	IH 35E/US 67 Southern Gateway	IH 35E	8th Street to US 67	FT1-7.80.4	8 (Frwy) + 1 (HOV-R), 4/6 (Frtg-D)	10 (Frwy) + 2 (HOV/M-R), 4/8 (Frtg-D)	2030 - 2035	TxDOT Dallas	$300,000,000
1	IH 35E/US 67 Southern Gateway	US 67	IH 35E to IH 20	FT1-38.10.1	4 (Frwy) + 2 (HOV-C), 4 (Frtg-D)	6 (Frwy) + 2 (HOV/M-R), 4/6 (Frtg-D)	2020 - 2030	TxDOT Dallas	$894,552,000
1	IH 35E/US 67 Southern Gateway	US 67	IH 20 to FM 1382	FT1-38.20.1	4 (Frwy), 4 (Frtg-C)	6 (Frwy) + 1 (HOV/M-R), 4/8 (Frtg-C)	2020 - 2030	TxDOT Dallas	$193,600,000
2	IH 820 Southeast Corridor	IH 20	IH 820 to US 287	FT1-30.50.1	10 (Frwy), 2/6 (Frtg-C)	10 (Frwy) + 2 (HOV/M-R), 2/6 (Frtg-C)	2020 - 2030	TxDOT Fort Worth	$588,000,000
2	IH 820 Southeast Corridor	IH 20	US 287 to Park Springs Blvd.	FT1-30.60.1	8 (Frwy), 4/6 (Frtg-D)	8 (Frwy) + 1 (HOV/M-R), 4/6 (Frtg-D)	2020 - 2030	TxDOT Fort Worth	$250,000,000
2	IH 820 Southeast Corridor	IH 820	Meadowbrook to US 287	FT1-151.30.2	4 (Frwy), 2/6 (Frtg-C)	8 (Frwy), 4/6 (Frtg-C)	2020 - 2030	TxDOT Fort Worth	cost included above
2	IH 820 Southeast Corridor	IH 820	US 287 to IH 20	FT1-151.40.1	8 (Frwy), 4 (Frtg-C)	8 (Frwy) + 2 (HOV/M-R), 4 (Frtg-C)	2020 - 2030	TxDOT Fort Worth	cost included above
2	IH 820 Southeast Corridor	US 287	Village Creek to IH 820 *(US 287)*	FT1-1.50.4	6 (Frwy), 4 (Frtg-C)	6 (Frwy) + 2 (HOV/M-R), 4 (Frtg-C)	2020 - 2030	TxDOT Fort Worth	cost included above
2	IH 820 Southeast Corridor	US 287	IH 20 to Sublett Road *(US 287)*	FT1-1.60.1	4 (Frwy), 4/6 (Frtg-C)	4 (Frwy) + 1 (HOV/M-R), 4/6 (Frtg-C)	2020 - 2030	TxDOT Fort Worth	cost included above
3	LBJ Express	IH 35E	IH 635 to Loop 12	FT1-7.40.1	10 (Frwy), 4 (Frtg-D)	10 (Frwy) + 6 (HOV/M-C), 4/6 (Frtg-C)	2030 - 2035 *	TxDOT - Dallas (CDA)	$473,984,000
3	LBJ Express	IH 635	Luna Road to IH 35E	FT1-130.20.2	9 (Frwy) + 1 (HOV-EB), 4 (Frtg-C)	10 (Frwy) + 4 (HOV/M-C), 4/6 (Frtg-C)	2010 - 2020	TxDOT Dallas (CDA)	$205,936,000
3	LBJ Express	IH 635	IH 35E to Webb Chapel Road	FT1-130.30.1	8 (Frwy) + 2 (HOV-C), 4 (Frtg-D)	8 (Frwy) + 10 M/CD + 4 (HOV/M-C), 4/6 (Frtg-C)	2010 - 2020	TxDOT Dallas (CDA)	$1,584,048,000
3	LBJ Express	IH 635	Webb Chapel Road to Hillcrest Road	FT1-130.30.2	8 (Frwy) + 2 (HOV-C), 4/8 (Frtg-D)	8 (Frwy) + 6 (HOV/M-C), 2/10 (Frtg-C)	2010 - 2020	TxDOT Dallas (CDA)	cost included above
3	LBJ Express	IH 635	Hillcrest Road to US 75	FT1-130.30.3	8 (Frwy) + 2 (HOV-C), 4/8 (Frtg-D)	8 (Frwy) + 4 (HOV/M-C), 2/8 (Frtg-C)	2010 - 2020	TxDOT Dallas (CDA)	cost included above
4	North Tarrant Express	IH 35W *(Seg 3C)*	Eagle Parkway to US 81/US 287	FT1-5.20.2	4 (Frwy), 4/8 (Frtg-D)	6 (Frwy) + 4 (HOV/M-C), 4/6 (Frtg-C)	2020- 2030	TxDOT Fort Worth	$377,000,000
4	North Tarrant Express	IH 35W *(Seg 3B)*	US 81/US 287 to Basswood Blvd.	FT1-5.40.1	4 (Frwy), 4/6 (Frtg-D)	8 (Frwy) + 4 (HOV/M-C), 4/8 (Frtg-C)	2020 - 2030 *	TxDOT Fort Worth (CDA)	$301,000,000
4	North Tarrant Express	IH 35W *(Seg 3B)*	Basswood Blvd. to IH 820	FT1-5.40.2	4 (Frwy), 4/8 (Frtg-D)	8 (Frwy) + 6 (HOV/M-C), 4/8 (Frtg-C)	2020 - 2030 *	TxDOT Fort Worth (CDA)	cost included above
4	North Tarrant Express	IH 35W *(Seg 3A)*	IH 820 to SH 183	FT1-5.50.1	4 (Frwy), 2/4 (Frtg-D)	8 (Frwy) + 4 (HOV/M-C), 4/6 (Frtg-D)	2020 - 2030 *	TxDOT Fort Worth (CDA)	$668,000,000

Roadway Corridor Fact Sheet 4
North Tarrant Express: Segments 3A, 3B, and 3C

Project Description

The North Tarrant Express project on IH 35W will expand general purpose lanes and construct new HOV/managed toll lanes from Eagle Parkway in the north to IH 30 in downtown Fort Worth.

Corridor Information

ROUTE	LIMITS	COST
IH 35W (Seg 3C)	Eagle Parkway to US 81/US 287	$377,000,000
IH 35W (Seg 3B)	US 81/US 287 to IH 820	$301,000,000
IH 35W (Seg 3A)	IH 820 to IH 30	$668,000,000
US 287 (Seg 3A)	IH 35W to IH 30	cost included above

Demographic Information Within One Mile of Corridor

POPULATION PROFILE	
Population	36,623
Number of Households	11,826
Population Below Poverty	17.5%
Population over 65	7.3%
African American	14.3%
Hispanic	39.3%
Asian/Pacific Islander	2.4%
American Indian/Native Alaskan	1.1%
Total Minority	58.1%

Source: Census 2000

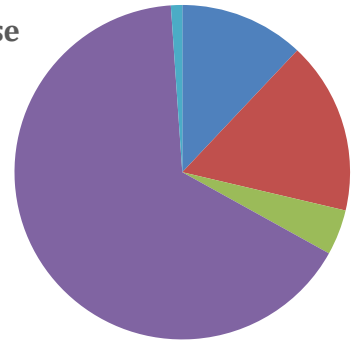
MAJOR EMPLOYERS	
Tarrant County Courts	3,085
USPS	2,500
BNSF	2,500
Fort Worth Police Dept.	1,596
New Breed Logistics	1,432
Ben E. Keith	1,404
City of Fort Worth	951
UPS	942

Source: NCTCOG Employment Database, 2010

Legislative Districts Within One Mile of Corridor

TEXAS SENATE	TEXAS HOUSE OF REPRESENTATIVES	UNITED STATES CONGRESS
Wendy Davis-10	Tan Parker-63	Kay Granger-12
Jane Nelson-12	Lon Burnam-90	Michael C. Burgess-26
	Marc Veasey-95	
	Vicki Truitt-98	
	Charlie Geren-99	

Land Use

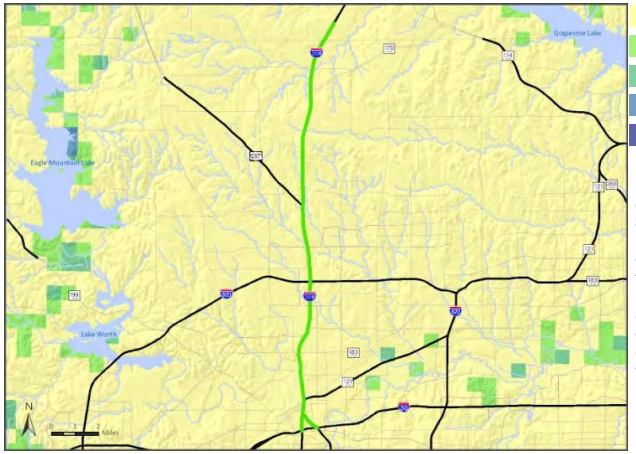


NCTCOG Regional Ecosystem Framework Score* (Range: 14 - 37)

SUBWATERSHED NAME	REF COMPOSITE SCORE
Marine Creek-West Fork Trinity River	16
Big Bear Creek	16
Whites Branch-Big Fossil Creek	17
Sycamore Creek-West Fork Trinity River	19
Henrietta Creek	20
Headwaters Elizabeth Creek	20

*Lower REF score indicates less resource vulnerability, higher score indicates more resource vulnerability.

Ecological Importance in Corridor



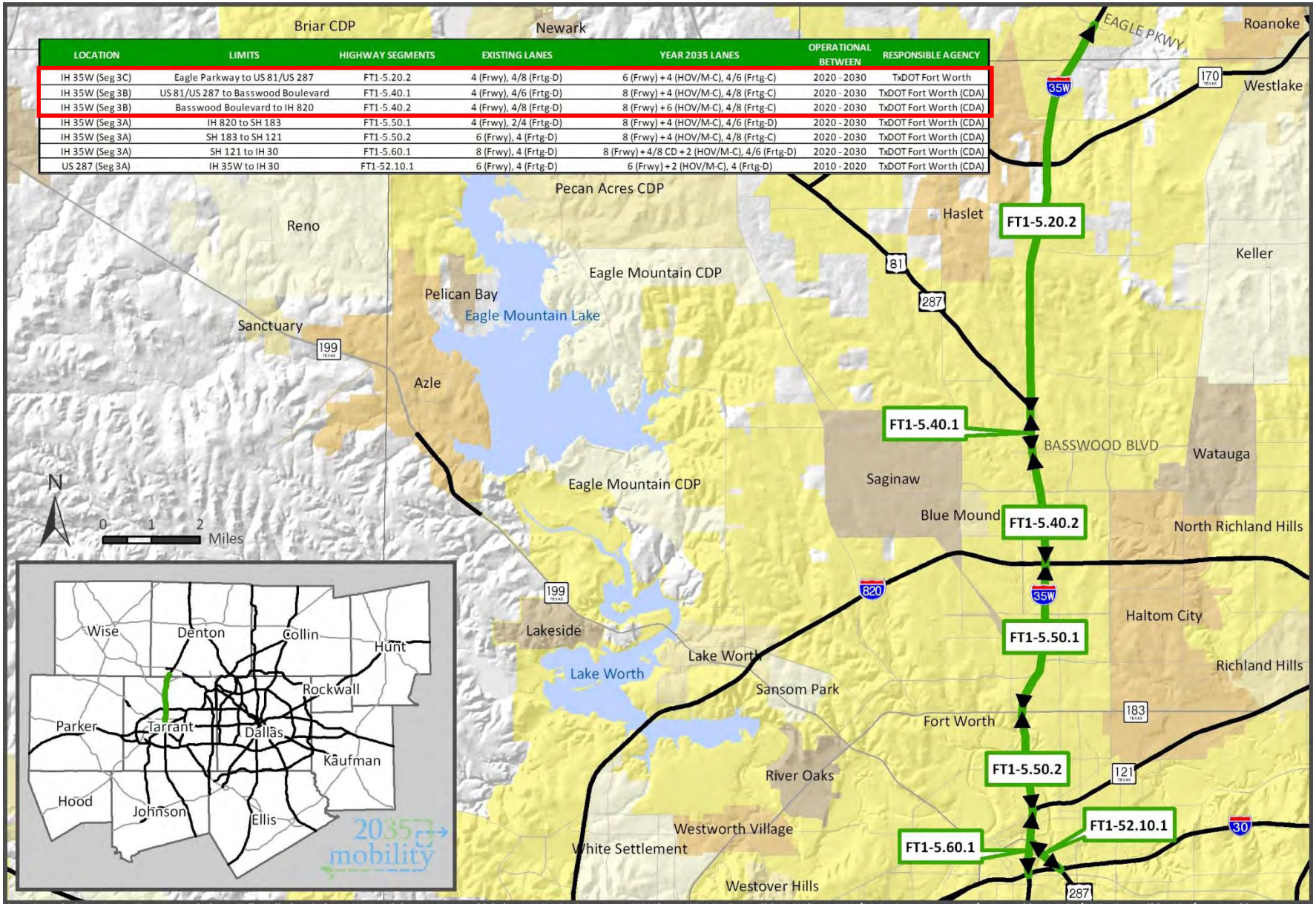
1 – Lowest Ecological Importance
2 – Medium-low Ecological Importance
3 – Medium Ecological Importance
4 – Medium-high Ecological Importance
5 – High Ecological Importance

EPA's Regional Ecosystem Assessment Protocol Ecological Importance is a combination of Diversity, Rarity, and Sustainability Layers. The top 1% highly important ecological areas in each ecoregion are blue, followed by the top 2 to 10%, 11 to 25%, 26 to 50%, and 51 to 100% (yellow). This layer should be used as a screening tool to identify the optimum ecological areas for protection and mitigation. More information at www.nctcog.org/traces.

North Central Texas Council of Governments

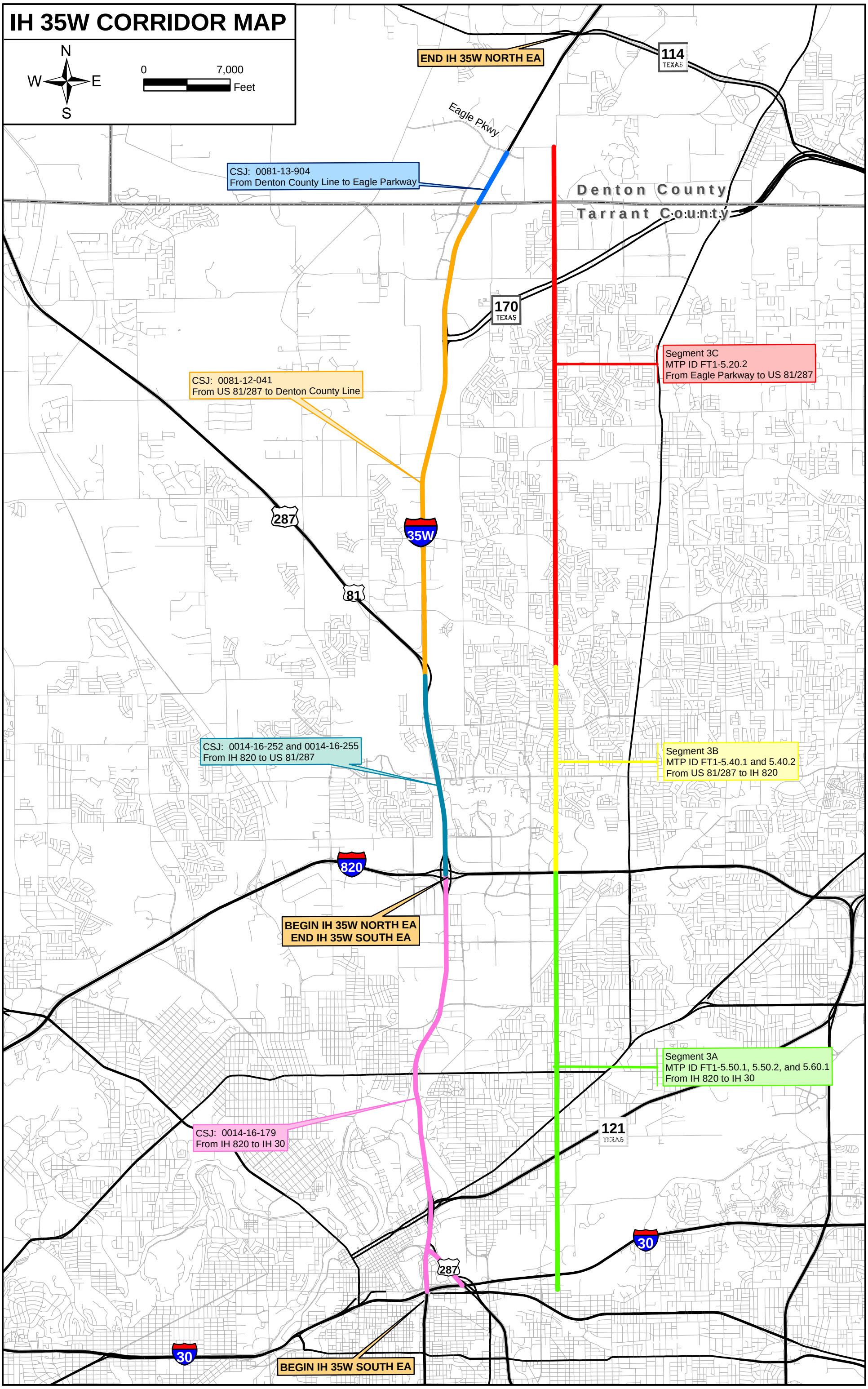
North Tarrant Express: Segments 3A, 3B, and 3C

LOCATION	LIMITS	HIGHWAY SEGMENTS	EXISTING LANES	YEAR 2035 LANES	OPERATIONAL BETWEEN	RESPONSIBLE AGENCY
IH 35W (Seg 3C)	Eagle Parkway to US 81/US 287	FT1-5.20.2	4 (Frwy), 4/8 (Frtg-D)	6 (Frwy) + 4 (HOV/M-C), 4/6 (Frtg-C)	2020 - 2030	TxDOT Fort Worth
IH 35W (Seg 3B)	US 81/US 287 to Basswood Boulevard	FT1-5.40.1	4 (Frwy), 4/6 (Frtg-D)	8 (Frwy) + 4 (HOV/M-C), 4/8 (Frtg-C)	2020 - 2030	TxDOT Fort Worth (CDA)
IH 35W (Seg 3B)	Basswood Boulevard to IH 820	FT1-5.40.2	4 (Frwy), 4/8 (Frtg-D)	8 (Frwy) + 6 (HOV/M-C), 4/8 (Frtg-C)	2020 - 2030	TxDOT Fort Worth (CDA)
IH 35W (Seg 3A)	IH 820 to SH 183	FT1-5.50.1	4 (Frwy), 2/4 (Frtg-D)	8 (Frwy) + 4 (HOV/M-C), 4/6 (Frtg-D)	2020 - 2030	TxDOT Fort Worth (CDA)
IH 35W (Seg 3A)	SH 183 to SH 121	FT1-5.50.2	6 (Frwy), 4 (Frtg-D)	8 (Frwy) + 4 (HOV/M-C), 4/8 (Frtg-C)	2020 - 2030	TxDOT Fort Worth (CDA)
IH 35W (Seg 3A)	SH 121 to IH 30	FT1-5.60.1	8 (Frwy), 4 (Frtg-D)	8 (Frwy) + 4/8 CD + 2 (HOV/M-C), 4/6 (Frtg-D)	2020 - 2030	TxDOT Fort Worth (CDA)
US 287 (Seg 3A)	IH 35W to IH 30	FT1-52.10.1	6 (Frwy), 4 (Frtg-D)	6 (Frwy) + 2 (HOV/M-C), 4 (Frtg-D)	2010 - 2020	TxDOT Fort Worth (CDA)



Lane Descriptions: Frwy - Freeway main lane, Toll - Tolled main lane, HOV - High occupancy vehicle lane, HOV-C - Concurrent HOV lane, HOV-R - Reversible HOV lane, HOV/M-C - Concurrent HOV/managed lane, HOV/M-R - Reversible HOV/managed lane, Frtg-C - Continuous frontage road, Frtg-D - Discontinuous frontage road, DC - Direct connect ramp, C-D - Collector-distributor road. Some facilities are staged and may have interim improvements that are not consistent with the proposed build. New facility locations indicate transportation needs and do not represent specific alignments. Roadway operational characteristics will be determined through ongoing project development.

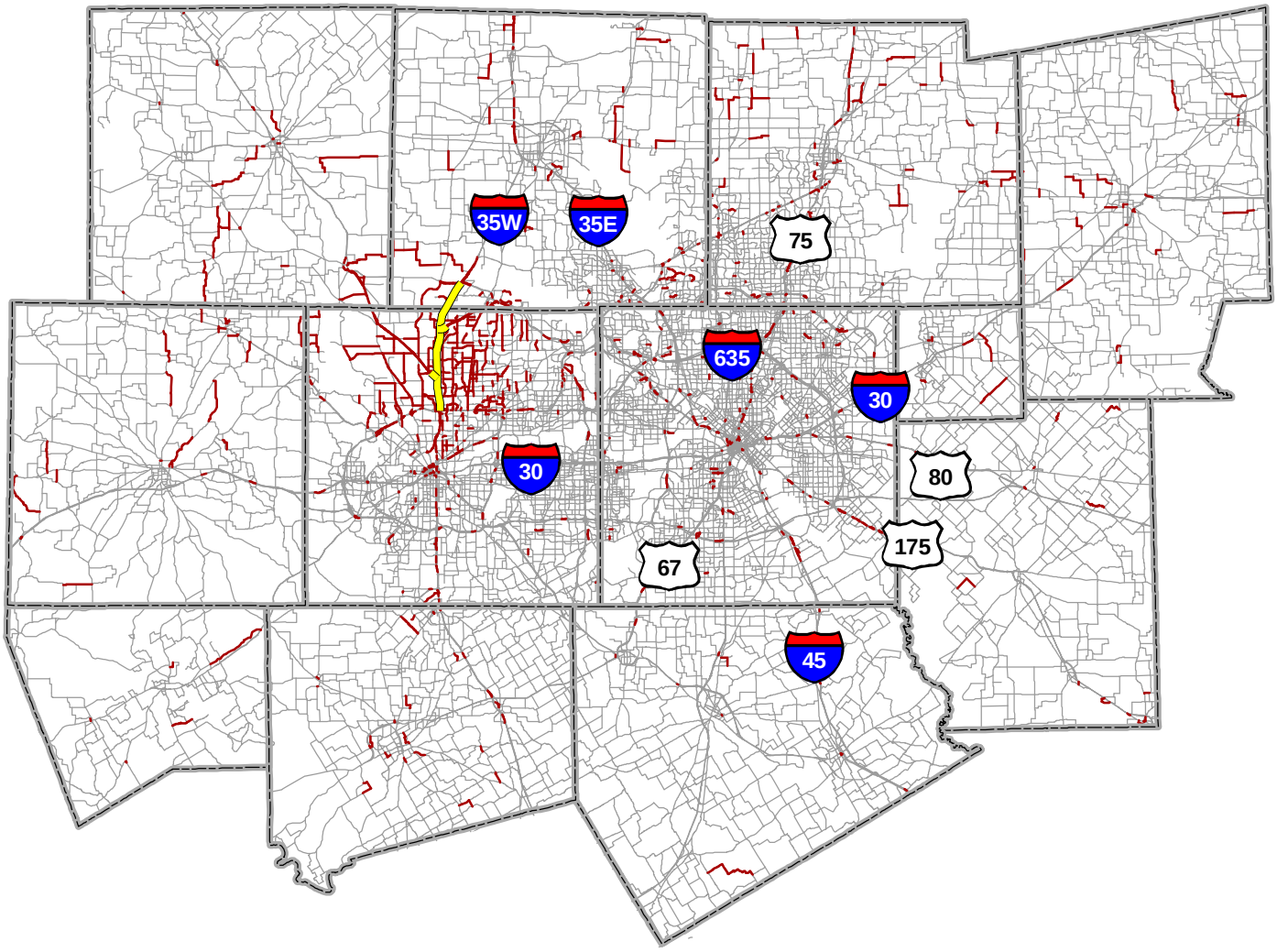
IH 35W CORRIDOR MAP



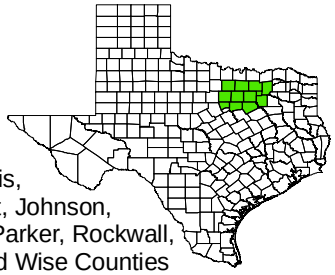
Appendix C
Affected Transportation Networks

LEGEND

- Project Limits
- Affected Transportation Network 2012
- Metropolitan Planning Area (MPA)



Base Map Source: NCTCOG, 2011



Collin,
Dallas,
Denton, Ellis,
Hood, Hunt, Johnson,
Kaufman, Parker, Rockwall,
Tarrant, and Wise Counties

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Feet

YEAR 2012 MSAT AFFECTED TRANSPORTATION NETWORK

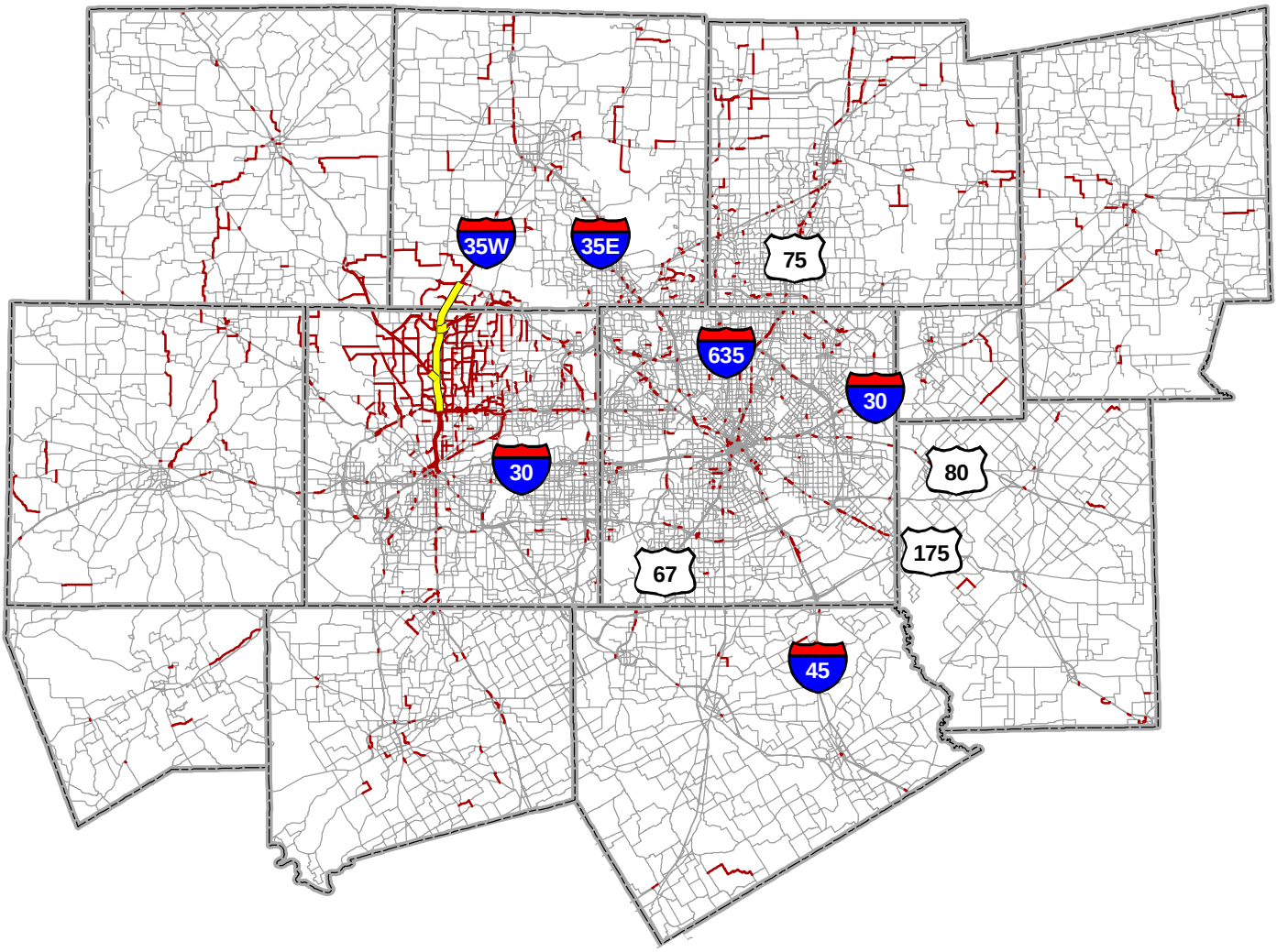
IH 35W
FROM SH 114 TO IH 820

CSJ: 0014-16-252 & 0081-12-041

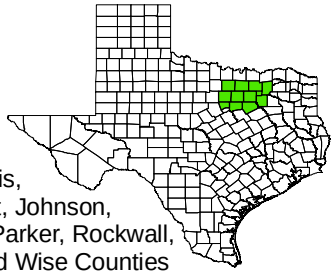
TARRANT AND DENTON COUNTIES

LEGEND

- Project Limits
- Affected Transportation Network 2035
- Metropolitan Planning Area (MPA)



Base Map Source: NCTCOG, 2011



Collin,
Dallas,
Denton, Ellis,
Hood, Hunt, Johnson,
Kaufman, Parker, Rockwall,
Tarrant, and Wise Counties

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YEAR 2035 MSAT AFFECTED TRANSPORTATION NETWORK

IH 35W
FROM SH 114 TO IH 820

CSJ: 0014-16-252 & 0081-12-041

TARRANT AND DENTON COUNTIES

Appendix D

Regional Transportation Council
Managed Lane Policies and
Excess Toll Revenue Sharing Policy

MANAGED LANE POLICIES

1. A fixed-fee schedule will be applied during the first six months of operation; dynamic pricing will be applied thereafter.
2. The toll rate will be set up to $0.75 per mile during the fixed-schedule phase. The established rate will be evaluated and adjusted, if warranted, with Regional Transportation Council (RTC) approval.
3. Toll rates will be updated monthly during the fixed-schedule phase.
4. Market-based tolls will be applied during the dynamic-pricing phase. During dynamic operation, a toll rate cap will be established. The cap will be considered “soft” during times of deteriorating performance when a controlled rate increase above the cap will be temporarily allowed.
5. Transit vehicles will not be charged a toll.
6. Single-occupant vehicles will pay the full rate.
7. Trucks will pay a higher rate, and no trucks will be permitted in the LBJ tunnel.

North Central Texas Council of Governments

MANAGED LANE POLICIES
(continued)

8. High-occupancy vehicles of two or more occupants and vanpools will pay the full rate in the off-peak period.

9. High-occupancy vehicles of two or more occupants will receive a 50 percent discount during the peak period.* This discount will phase out after the air quality attainment maintenance period. RTC-sponsored public vanpools are permitted to add peak-period tolls as eligible expenses. Therefore, the Comprehensive Development Agreement (CDA) firm will be responsible for the high-occupancy vehicle discount and the Regional Transportation Council will be responsible for the vanpool discount.

10. The toll rate will be established to maintain a minimum average corridor speed of 50 miles per hour.

*6 hours per weekday: 6:30 a.m. - 9:00 a.m. and 3:00 p.m. - 6:30 p.m.

North Central Texas Council of Governments

MANAGED LANE POLICIES
(continued)

11. During the dynamic-pricing phase, travelers will receive rebates if the average speed drops below 35 mph. Rebates will not apply if speed reduction is out of the control of the operator.

12. Motorcycles qualify as high-occupancy vehicles.

13. No discounts will be given for “Green Vehicles.”

14. No scheduled inflation adjustments will be applied over time.

15. Every managed lane corridor will operate under the same policy.

16. Adoption of this policy will have no impact on the Regional Transportation Council Excess Revenue Policy previously adopted.

North Central Texas Council of Governments

MANAGED LANE POLICIES
(continued)

17. The Regional Transportation Council requests that local governments and transportation authorities assign representatives to the Comprehensive Development Agreement procurement process.

18. The duration of the Comprehensive Development Agreement should maximize potential revenue.

19. Tolls will remain on the managed lanes after the Comprehensive Development Agreement duration.

RTC Approved – May 11, 2006
RTC Modified – September 14, 2006
RTC Modified – September 13, 2007

North Central Texas Council of Governments

North Central Texas Council of Governments

EXCESS TOLL REVENUE SHARING: MANAGED LANE POLICY

Purpose: To establish a framework for the allocation of future revenue from managed lane toll projects in the North Central Texas region.

1. The focus of this policy is Texas Department of Transportation (TxDOT) sponsored managed lane toll projects.

2. Excess toll revenue is defined as annual toll revenue after annual debt service, and after annual reserve funds have been set aside to cover facility operational costs, anticipated preventive maintenance activities, assigned profit and related expenses for the Comprehensive Development Agreement (CDA), and the expected cost of rehabilitation or reconstruction of the managed toll lanes.

3. All excess revenue generated from an individual managed lane toll project shall remain in the TxDOT district in which that revenue-generating managed lane project is located.

North Central Texas Council of Governments

EXCESS TOLL REVENUE SHARING: MANAGED LANE POLICY (continued)

4. Local governments and transportation authorities shall be given the right to invest in a CDA project as a means to fund the facility as well as to generate local revenue.

5. The excess revenue generated from an individual managed lane toll project shall remain in the counties in which that revenue-generating project is located. Excess revenue shall be returned to the funding partners in proportion to their shares and be used to fund future transportation projects.

6. Regional Transportation Council shares will be put in air quality related and sustainable development programs and used to leverage federal transportation funds.

RTC Approved – June 9, 2005

Appendix E
Cultural Resources Coordination

MEMORANDUM

Texas Department of Transportation

TO: 850 File, CRM Project file

District: **Fort Worth** **Highway: IH 35W**
County: **Tarrant and Denton**
CSJ #: **0014-16-252, 0081-12-041, 0014-16-255**
Project Limits: from IH 820 to SH 114

Project Description: HIST Stipulation VI, Appendix 4(a) widen and reconstruct highway. 105 acres new ROW. No historic resources present.

FROM: Mark M. Brown MB **DATE: December 31, 2009**

SUBJECT: Internal review under the First Amended Statewide Programmatic Agreement for Transportation Undertakings (PA-TU) among the Federal Highway Administration, Texas State Historic Preservation Officer, Advisory Council on Historic Preservation, and the Texas Department of Transportation; and the Memorandum of Understanding (MOU) between the Texas Historical Commission and the Texas Department of Transportation

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Introduction

The Texas Department of Transportation – Fort Worth District proposes to widen and reconstruct IH 35W between Eagle Parkway and IH 820. The work limits includes parts of SH 170 and SH81. See attached project location maps.

Please see attached tables and cross-sections describing the existing facilities and the proposed improvements.

The proposed project would require 105 acres of new right-of-way.

Survey and Survey Findings

A review of the National Register of Historic Places (NRHP), the list of State Archeological Landmarks (SAL), and the list of Recorded Texas Historic Landmarks (RTHL) indicated that no historically significant resources have been previously documented within the area of potential effects (APE). It has been determined through consultation with the State Historic Preservation Officer (SHPO) that the APE for the proposed project is 150 feet from the project right-of-way. A site visit identified sixty historic-age (built prior to 1967) resources on fifteen numbered sited located within the project area of potential effects. The fifteen numbered resources consist of ten agricultural, four residential, and one commercial site. TxDOT historians determined that none of the historic-age resources are NRHP eligible.

Sites 2-3, 7-8, 10-11, 13-15 are agricultural resources including five farmsteads, one ranch, and remnants three of abandoned farmsteads. The farmsteads, both those in use and those abandoned, lack integrity due to extensive non historic age intrusions (Sites 2, 3, 7), disrepair (Sites 8, 13, 14), or loss of defining components (Sites 8, 10, 11, 13, 15). Extensive

suburbanization and industrial development have severely altered the original agrarian setting. Not only does this impact the integrity of the individual sites, but it also disrupts land use patterns and characteristics that could convey significance as a rural historic landscape.

Site 1 is a farmstead significant under Criteria A: Agriculture, but its integrity has been severely compromised by alteration and adjacent development. Of its nineteen inventoried resources, thirteen -- 65% -- date from c. 1965 or later. Not only do the non-historic age resources disrupt the ability of the landscape to convey the use of a historic farmstead, but most of the non-historic resources are located in the center of the farmstead cluster. Thus the very core of the landscape is occupied by new intrusive resources. The oldest resources (1A, 1C, 1E, 1N, 1Q) are on the fringes of the cluster. As a result, the historic spatial patterns are broken and no longer recognizable for their association with historic farm-culture traditions. The entire property, except the farmstead, was sold in 1989 to interests associated with the Alliance freight airport complex. The construction of airport facilities and related access roads, as well as the noise from jets and trucks, severed the farmstead from all meaningful association with its rural and agrarian setting except that of the fields northeast of the farmstead.

The changes to the site required by the coexistence of limited agriculture and industrial development also adversely impacted the integrity of several other characteristics of rural historic landscapes. These include reorganization of land use (the airport), spatial organization (separation from other farms), internal and local circulation networks (divided highways separate the site from most of its fields), and realignment of boundary demarcations such as fence lines. (See figures 1 and 2 attached and figure 4 of the survey report.)

Resources 3A, 5, 6, and 7A are Ranch Style, or other rectangular plan, houses. These resources are architecturally undistinguished and are independent of any significant mid-twentieth century suburban context.

Resources 2A, 14A, 15A are modest cottages and architecturally undistinguished. Each has some degree of integrity issues.

Resources 1C and 12A are Bungalows or variants thereof. The former has an extremely atypical plan which suggests numerous additions and alterations. The latter is not quite a Ranch house, as suggested by the survey, as it has Craftsman style eave brackets. But the absence of tapered porch columns and the horizontal format window sash suggests it has been altered into a hybrid. See attached aerial.

Resource 1A is an example of a Tudor Revival residence. Its primary identifying features are the porch treatment's round arches, gables, and very restrained verge board. It is nevertheless a very modest and undistinguished example when compared to Tarrant County's Westover Manor, Westover Hills (1936 NRHP listed) or to the Roy A. and Gladys Westbrook House, Fort Worth (State Board of Review, September 20, 2008, NRHP listed January 8, 2009). See attached photographs.

Resources 2F, 2G, 4A, 3H, 9 are neither historic age, nor otherwise exceptional. Site 9 is a one story commercial building not on the 1981 USGS topographic map and is part of a light industrial zone along the frontage road.

Determinations of National Register Eligibility

I have evaluated the surveyed properties through the application of the Criteria of Eligibility for listing in the National Register of Historic Places and have determined that none of these properties (Site Nos. 1-15) are known to be associated with a significant historical event, or associated with a person of transcendent importance, nor embody the distinctive characteristics of a type, period, or method of construction, or that represents the work of a master. Therefore, these resources are determined to be **not eligible** for listing in the National Register of Historic Places. A table indicating individual NRHP evaluations is provided in the attached survey.

Conclusion

Pursuant to Stipulation VI "Undertakings with Potential to Cause Effects" of the First Amended Statewide Programmatic Agreement for Transportation Undertakings (PA-TU) between the Federal Highway Administration (FHWA), the Texas State Historic Preservation Officer (SHPO), the Advisory Council on Historic Preservation, and the Texas Department of Transportation (TxDOT) and the Memorandum of Understanding (MOU), ENV historians determined that none of the historic-age resources are eligible for listing in the National Register of Historic Places. Since the properties are not NRHP eligible, the project would have no effects to historic properties and individual project coordination with SHPO is not required.

Lead Reviewer MKS for TxDOT 1-11-10
Initials Date

Approved by Bruce Jensen for TxDOT 1-08-16
Bruce Jensen Date

Distribution
Signed original: Michelle Skinner, ENV-PRO
Cc w/attachment: ENV-CRM file, THC Cc w/o attachment: Sonja Whitehead, Fort Worth District; scan

STANDARDS OF UNIFORMITY FOR
NON-ARCHEOLOGICAL HISTORIC-AGE RESOURCE RECONNAISSANCE SURVEY REPORTS
REVIEW CHECKLIST

DISTRICT/COUNTY FTW/Tarrant HIGHWAY I 35 W CSJ 0014-16-192
CONTRACTOR Ecom SUBMITTAL DATE 4/23/09 REVIEWED BY MMB

Historic-age Resource Survey Reports (HRSR) for non-archeological historic-age resources will be reviewed for compliance with the following checklist in addition to the Texas Historical Commission reporting standards and the *Archeology and Preservation: Secretary of the Interior's Standards and Guidelines.* Reports with all YES responses will be automatically accepted. One or more NO response may result in acceptance pending specified revisions or clarifications or in rejection depending on the nature of the issue.

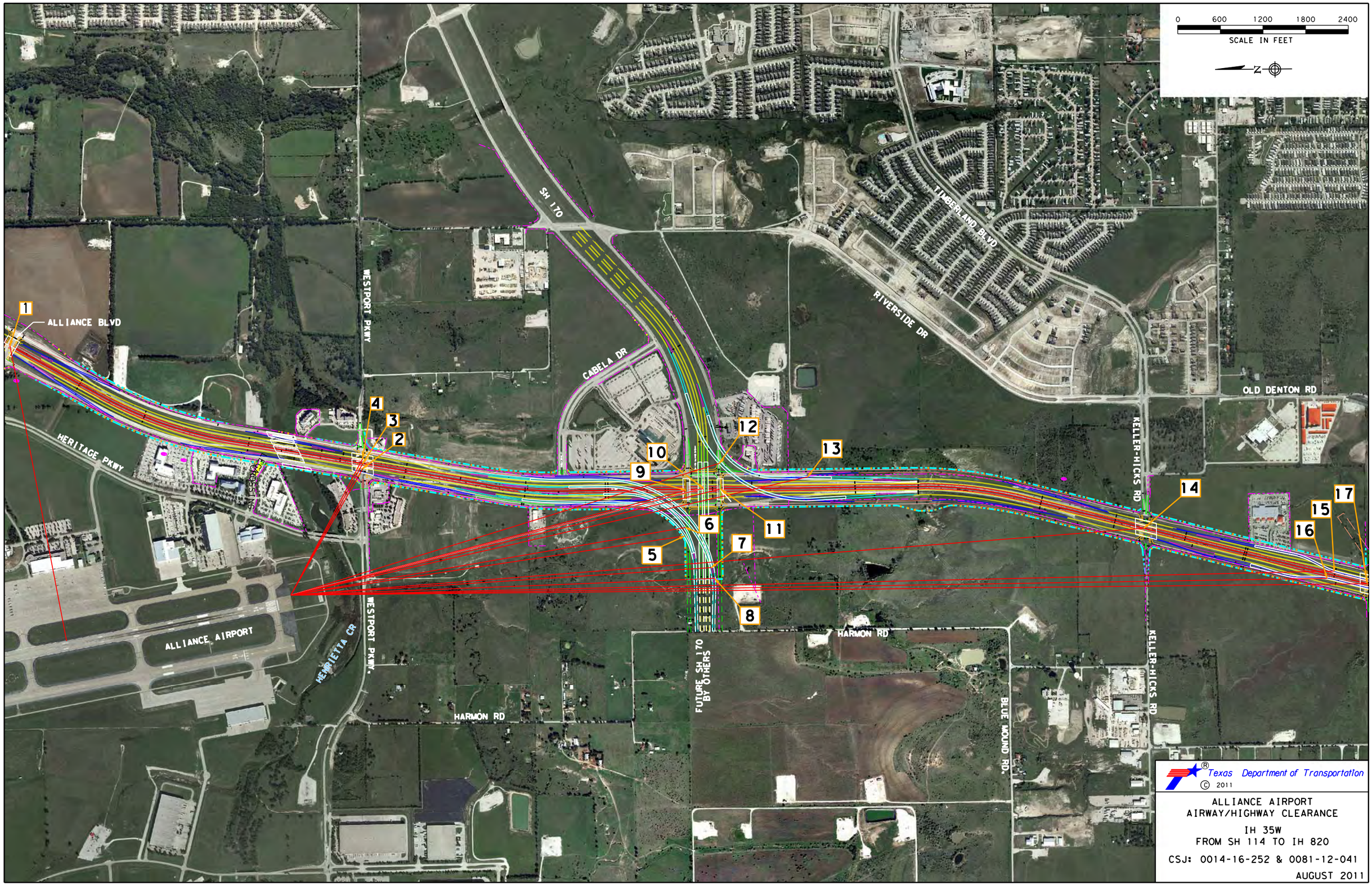
Historic resource studies shall be performed and documented at sufficient levels to satisfy the SHPO/Texas Historical Commission (hereafter THC) requirements for determining the presence of and documenting historically significant properties in the project Area of Potential Effects (APE) in accordance with 36 CFR 60 and 43 TAC 2.4-2.51. All reports shall include the names and tasks performed of all technical experts associated with the project.

A	FORMAT CRITERIA	MEETS CRITERION?
1)	Report cover and title page include highway and project limits, district(s), counties, CSJ(s), and identification of professional historian and consulting firm.	Y
2)	Report includes a project area map based on aerial photographs or aerials are not available than a map based on a USGS 7.5' Quadrangle.	Y
3)	Report includes Project Type/Description/Impacts and acreage of proposed new right-of-way (ROW) in project area.	Y
B	IDENTIFICATION CRITERIA	
4)	Report defines the Area of Potential Effects (APE), referring to project plans and/or to proposed direct impacts for this class of project.	Y
5)	Report includes discussion of previously designated historic properties within 1300' of the project area to foster development of appropriate contextual analysis. Explicit reference to review of THC survey files and Historic Sites Atlas, the National Register of Historic Places (NRHP), the list of State Archeological Landmarks (SAL), and the list of Recorded Texas Historic Landmarks (RTHL) must be included.	Y
6)	Report includes survey methodology that describes the APE, the study limits of the survey area and the historic-age period.	Y
7)	Report includes a literature review appropriate to the study area and its historic-age resources that resulted in development of a research design appropriate to the identification and evaluation of non-archeological historic-age resources specific to the survey area. The research design should be approved by ENV prior to fieldwork. The research design must provide a succinct summary of the literature review results, clear descriptions of identification, evaluation and documentation tasks required and a description of potential areas of significance appropriate to the survey area.	Y
C	DOCUMENTATION CRITERIA	
8)	Report includes photographic documentation for each historic-age resource sufficient in number and perspective to satisfy ENV documentation requirements, except under circumstances beyond the Technical Expert's control (NOTE: such circumstances require comprehensive verbal characterizations of historic-age resource features). Photographs: a) must include a single oblique view incorporating both the primary façade and a side elevation at a minimum for each resource, with the subject filling the frame. b) must include multiple views of elevations and architectural details when	Y mod 4/6

	the resource is listed on or is potentially eligible for the NRHP. c) must include multiple views of the property when it has more than one historic-age resource. d) must be well focused and clearly depict architectural and other details relevant to an evaluation of the resource's character-defining features. e) must document a historic property's relationship to the proposed road project. f) must be 3.5" x 5" color representations printed on matte finish photographic paper or 3.5" x 5" color representations printed on matte white, premium or photo quality laser or inkjet paper. g) must be original prints or electronic presentations of at least 1200 x 1600 pixel resolution qualities. h) must be attached to separately labeled pages that clearly identify project name, project ID number, address or UTM of resource, direction of the photograph, style and/or form of the resource, NRHP criteria eligibility, resource integrity issues, and any limitations when photographing the resource. (Style and form must accurately describe the resource)	
9)	Report includes inventory of all historic-age resources, provided in a table form that details their ID numbers, locations/addresses, property type and subtype classifications, stylistic influences, construction dates, integrity issues and preliminary eligibility recommendations referenced to applicable NRHP criteria.	Y
10)	Report includes brief overview of the results of the reconnaissance survey, including a) an outline of the purpose and methodology of the project, b) a background history of study area presenting historic contexts relevant to the time period associated with the historic-age resources in which to evaluate significance of resources for NRHP eligibility, c) brief description of property types developed from observations on patterns of settlement, development trends, resource distribution, and analysis of survey data d) NRHP registration requirements with integrity analysis of resources in study area. e) preliminary assessments of effects on historic properties as required in Section E with the appropriate NEPA or federal regulatory language.	Y
11)	Report includes maps based on aerial photos of the study area. a) The APE, existing ROW and proposed new ROW, major street names and other directional landmarks must be clearly indicated on the map. b) The location of each Official State Historical Marker (OSHM) in the study area must be indicated on the map. c) Locations for each historic-age resource must be labeled with appropriate project ID numbers running as consecutively as possible from left to right. d) Outbuildings and landscape features should be reported as subsets of the main project ID number for a property, for example, a residence and associated garage could be labeled Resource Nos. 100a and 100b. If an eligible or potentially eligible historic property has multiple resources, the map will have an inset aerial of the site, with the labeled resources, on the overall map or a separate map to give the reviewer a site plan.	Y
12)	Report includes documentation appropriate to the level of survey for all historic-age features of a historic property. Report also includes appropriate archival and biblio-graphic references for historic properties, including oral histories, historical maps, deed or tax record research, other archival research, title search, other detailed historic research directly related to the specific location of the site. Report also includes appropriate public involvement by contacting local interested parties in order to determine local interest in historic resources in the project area.(Reviewer comments required if **No**)	Y

D	**EVALUATION CRITERIA (REQUIRES COORDINATION WITH ENV STAFF/TECHNICAL EXPERT)**	
13)	Report explicitly evaluates each historic-age resource's eligibility for inclusion in the National Register of Historic Places (NRHP), providing analysis appropriate to the recommended level of significance of the resource. For resources recommended as NRHP-eligible and for those of marginal significance recommended as not NRHP-eligible, the report must: a) justify significance within appropriate context and NRHP criteria b) discuss all seven aspects of integrity	Y
14)	Report provides recommendations for historic-age resources requiring additional intensive survey efforts in order to finalize determinations of NRHP eligibility in accordance with 36 CFR 60.	N/A.
15)	Report recommends proposed changes to the research design arising from the results of the reconnaissance survey, including contextual issues, comparative property information needs, data gaps and other items necessary to finalize the evaluation and documentation phases of the project in accordance with the *SOI Standards.* Intensive survey results must be integrated with reconnaissance survey results into a single HRSR upon their availability. (Reviewer comments required if **No.** TxDOT reserves the right to deviate from recommendations for additional work.)	—
E	**EFFECTS CRITERIA**	
16)	Report characterizes potential direct, indirect, and cumulative effects and provides appropriate supplemental visual documentation for all historic properties in accordance with 36 CFR 60, noting presence or absence of character-defining features in proposed new ROW zones subject to Section 4(f) regulations.	Y
F	**APPROVAL**	
17)	Report contains no factual errors affecting the finding(s), satisfactory completion of field work, or acceptance of the report by Texas Historical Commission or other consulting parties and is therefore approved for acceptance. (Reviewer comments required if No)	Y
18)	COMMENTS: minor typo. p 17. 1969 should probably be 1966 as per ~~cut off date~~ survey cut off date p. 2 [illegible] 5/11/09	

Appendix F
FAA Clearance Data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ALLIANCE BLVD
HERITAGE PKWY
ALLIANCE AIRPORT
HENRIETTA CR
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Texas Department of Transportation
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ALLIANCE AIRPORT
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AUGUST 2011