Illinois Department of Transportation

PROJECT REPORT

US ROUTE 30

ILLINOIS 47 to ILLINOIS 31

P-91-403-11
Kane & Kendall Counties

IDOT - Division of Highways - District One

May, 2018
Volume 5 of 7

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Technical Memorandum – Turn Lane Warrants

U.S. 30
Illinois 47 to Illinois 31
P-91-403-11

TURN LANE WARRANTS STUDY

Prepared By:

Hutchison Engineering, Inc.

May 14, 2013

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Hutchison Engineering, Inc.

TECHNICAL MEMORANDUM

May 14, 2013

U.S. 30 Turn Lane Warrants Study
From IL 47 to IL 31

The purpose of this study was to evaluate existing and projected future traffic conditions along U.S. 30 at un-signalized intersections, and to determine traffic signal warrants.

SECTION 1

DESCRIPTION OF STUDY AREA

The project study area includes U.S. 30 (Baseline Road) from east of Illinois Route 47 to west of the Illinois Route 31 interchange, a length of about 4.5 miles. U.S. 30 through the study area generally runs east-west. See Figure 1 on page 2 for Project Location Map.

The U.S. 30 study corridor between IL 47 and IL 31 is a two-lane highway that is classified as a Strategic Regional Arterial (SRA). IDOT owns access rights through most of the corridor. The Average Annual Daily Traffic (AADT) ranges from 11,300 at the west end near Illinois Route 47 to 24,900 at the east end near the Illinois Route 31 interchange.

The existing land use from IL 47 to Dickson Road is agricultural. East of Dickson Road to Blackberry Creek is a mixture between residential and agricultural use. East of Orchard Road the land is generally commercial and industrial south of U.S. 30 with some residential and agricultural mixed in. On the north side the land use is more residential and agricultural until just west of the IL 31 interchange where it becomes industrial. Many of the residential subdivisions were developed with setbacks to accommodate future expansion of U.S. 30.

The posted speed limits of U.S. 30 are 55 mph from IL 47 to Orchard Road. East of Orchard Road to west of the IL 31 interchange the speed limit is 50 mph and it drops to 45 mph at the east end of the project where it approaches the interchange area.

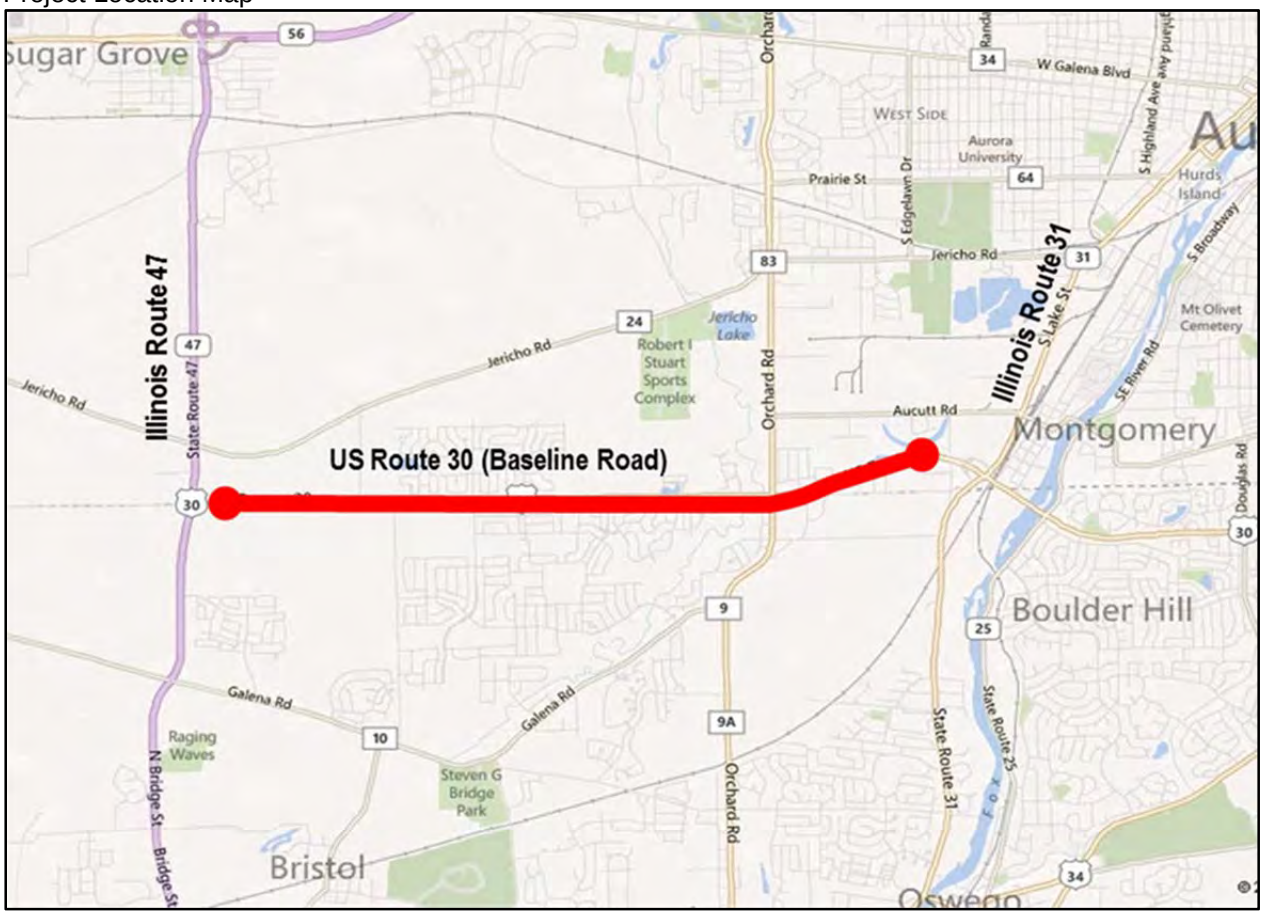
The roadway generally consists of one 12 foot lane in each direction with 10 feet wide aggregate shoulders. There are three signalized intersections with turn lanes located at

Gordon Road, Griffin Drive and Orchard Road. There are a total of seven un-signalized intersections.

Significant features along the corridor include Blackberry Creek, the Blackberry Trail Forest Preserve, Jacob Keck Memorial Cemetery and the Orchard Road Corridor. Stuart Sports Complex property abuts the corridor but there are no existing facilities near the corridor.

FIGURE 1

Project Location Map



Source: Microsoft Corporation / NAVTEQ

SECTION 2

EXISTING CONDITIONS

2.1 EXISTING CONDITIONS & FIELD OBSERVATIONS

Bertram Road

Bertram Road is classified as a major collector. It is a township road serving an agricultural area and connects to Jericho Road to the north. It is a three-legged un-signalized intersection. There are no turn lanes on any of the approaches. During the AM peak hour the westbound right turn movement is significant. However, no operational issues were noted. In the PM peak that movement is reversed with a large volume of southbound traffic making left turns onto U.S. 30. Traffic making this left-turn movement finds limited gaps to make the movement due to the density of the U.S. 30 traffic flow.

Dickson Road

Dickson Road is classified as a major collector. It is a township road serving an agricultural area adjacent to U.S. 30 and subdivisions further south. It is a three-legged un-signalized intersection. There are no turn lanes on any of the approaches. During the AM peak hour the northbound left turn movement is significant. Traffic making this left-turn movement finds limited gaps to make the movement due to the density of the U.S. 30 traffic flow. In the PM peak no operational issues were noted.

Gordon Road

Gordon Road is a classified as a minor arterial to the north and a major collector to the south. It is a city street serving residential subdivisions. The north leg of the intersection serves as the only access point for the subdivision onto U.S. 30 and does not currently connect to Jericho Road. It is a four-legged signalized intersection. In addition there is a school located in the subdivision. There are left and right turn lanes on both U.S. 30 approaches. On Gordon Road there are two thru lanes and a left turn lane on each approach. Operationally, the intersection operates well with the exception of the southbound right turn movement which experiences some back-ups in the AM peak hour due to the large volume of vehicle turning west.

Prescott Drive

Prescott Drive is a classified as a local street. It is a city street serving a residential subdivision. It is a three-legged un-signalized intersection. There is a left turn lane for westbound U.S. 30 and a right turn lane for eastbound U.S. 30. Prescott Drive has a single lane approaching U.S. 30 and left turns out of Prescott Drive are prohibited. There were no observed operational concerns.

Lakewood Creek Drive

Lakewood Creek Drive is a classified as a major collector. It is a city street serving a residential subdivision. It is a three-legged un-signalized intersection. There is a left turn lane for westbound U.S. 30 and a right turn lane for eastbound U.S. 30. There are two approach lanes on Lakewood Drive. One is a dedicated left turn lane and the other is a dedicated right turn lane. In the AM peak no operational issues were noted. During the PM peak hour the northbound left turn movement experiences delays. Traffic making this left-turn movement finds limited gaps to make the movement due to the density of the U.S. 30 traffic flow.

Griffin Drive

Griffin Drive is a classified as a major collector. It is a city street serving residential subdivisions to the south and the Village of Montgomery police station to the north. It is a four-legged signalized intersection. There are left and right turn lanes on both U.S. 30 approaches. On Griffin Drive there is a single thru lane, a left turn lane, and a right turn lane on each approach. Operationally, the intersection operates well with the exception of the northbound right turn movement which experiences some back-ups in the AM and PM peak hour due to the large volume of vehicle turning west and density of U.S. 30 traffic. However, the queues were well within the right turn lane bay.

Blackberry Road

Blackberry Road is classified as a local street. It is a township road and serves as the only access to a residential subdivision. It is a three-legged un-signalized intersection. There are no turn lanes on any of the approaches. It is located 1,000 feet west of Orchard Road. Peak hour traffic from and to Blackberry Road is less than 50 vehicles. Despite the low volume southbound left turn lanes are significantly delayed in both the AM and PM. Furthermore the operation of this intersection is negatively impacted by the close proximity of the Orchard Road intersection which often experiences significant eastbound queues which sometimes back up to Blackberry Road. Traffic making this left-turn movement finds limited gaps to make the movement due to the density of the U.S. 30 traffic flow.

Orchard Road

Orchard Road is classified as an SRA to the north of U.S. 30 and as a minor arterial south of U.S. 30. It is a county highway serving a mixture of residential, industrial, and commercial uses. It is a four-legged signalized intersection. There are left and right turn lanes on both U.S. 30 approaches. On Orchard Road two thru lanes and a left turn lane on both approaches. There is also a right turn lane on the south approach. It should be noted that this intersection was observed while Orchard Road was under construction north of the intersection. Regardless, the observations most likely reflect most of the operational concerns that exist at this intersection under normal circumstances. The main exception would be the northbound movements. At the time

this intersection was observed the right turn lane was closed and the right turn lane was converted into a right turn lane. North of the intersection the right thru lane was closed for staging of construction on Orchard Road north of U.S. 30.

Eastbound Approach – The eastbound traffic experiences significant delays and queues up to approximately 1000 feet during the AM and PM peak hour. This negatively impacted the southbound left turn movement off of Blackberry Road. The length of the right turn bay is limited by the width bridge carrying U.S. 30 over Blackberry Creek just west of the intersection and appears to have been added after construction of the bridge in an effort to improve intersection operations. Left and right turn movements were impacted by the eastbound approach queuing.

Westbound Approach – The westbound traffic experiences significant delays and queues during the AM and PM peak hours. Left and right turn movements were impacted by the eastbound approach queuing.

Northbound Approach – The northbound traffic experiences significant delays and queues during the AM and PM peak hours. The queuing extended past Brentwood Avenue. Left and right turn movements were impacted by the eastbound approach queuing.

Southbound Approach – As mentioned above the right thru lane was converted into a right turn lane which reduced the number of thru lanes to one. Therefore, no further observations were made on this leg of the intersection.

<u>Horsemen Trail</u>

Horsemen Trail is a classified as a local street. It is a city street serving a commercial and industrial area. It is a three-legged un-signalized intersection. There is a left turn lane for westbound U.S. 30 and a right turn lane for eastbound U.S. 30. Horsemen Trail has a single lane approaching U.S. 30 and left turns out of Prescott Drive are prohibited. Operationally the northbound right turn movement experiences delays in the peak hour due to the density of the U.S. 30 traffic eastbound flow which limits gaps to make the turn movement.

<u>Baseline Road Connector</u>

The Baseline Road Connector is a classified as a local street. It is a city street serving a mixture of residential, industrial, and commercial uses. It is a three-legged un-signalized intersection. There is a right turn lane for eastbound U.S. 30. Left turn lanes form U.S. 30 to Horsemen Trail are prohibited. Horsemen Trail has a single lane approaching U.S. 30 and left turns out of Prescott Drive are prohibited. Operationally the northbound right turn movement experiences delays in the peak hour due to the density of the U.S. 30 traffic eastbound flow which limits gaps to make the turn movement.

SECTION 3

TURN LANE WARRANT DETERMINATION PROCEDURES

3.1 DATA COLLECTION

Traffic count data was obtained along the study corridor in April and May 2012. Traffic was counted only on weekdays (Tuesday through Thursday) for a 12-hour period between 6 AM and 6 PM. Turning movement counts were collected for all of the intersections.

3.2 DETERMINATION OF FUTURE (2040) TRAFFIC VOLUMES

Projected intersection traffic volumes were developed by applying growth rates to the existing traffic volumes. The growth rates were derived from data obtained from the Chicago Metropolitan Agency for Planning (CMAP) for the year 2040. See Appendix A for the projected intersection volumes.

3.3 TURN LANE WARRANT PROCEDURES

For right turn lane warrants at un-signalized intersections BDE Figure 36-3.A Guidelines for Right Turn Lanes at Un-Signalized Intersections on Two-Lane Highways was used for the side roads. For U.S. 30 it is anticipated the roadway will be expanded from a two-lane highway to a four-lane highway. Therefore, BDE Figure 36-3.B Guidelines for Right Turn Lanes at Un-Signalized Intersections on Four-Lane Highways was utilized to determine warrants on U.S. 30.

For signalized intersections Section 36-3.01(a) of the BDE Manual was utilized to determine right turn lane warrants.

Left turn lanes will be provided on all legs of all intersections. Dual left turn lane warrants were determined utilizing the guidelines found in BDE Section 36-3.05(a). Dual left turn lanes should only be used with signalization providing a separate turning phase.

Right turn lane warrants are summarized in Table 1. Dual Left turn lane warrants are summarized in Table 2. Detailed analysis for each intersection is shown in Appendix A.

TABLE 1
Right Turn Lane Warrants

Intersection	Warrants Met? (Y/N)			
	East Leg	West Leg	North Leg	South Leg
Bertram Road	Y	N/A	Y	N/A
Dickson Road	N/A	Y	Y	N/A
Gordon Road	Y	Y	N	N
Prescott Drive	N/A	N	N/A	*
Lakewood Creek Drive	N/A	Y	N/A	*
Griffin Drive	N	N	N	N
Blackberry Road	N	N/A	N	N/A
Orchard Road	Y	Y	Y	Y
Horsemen Tr/Galena Rd	N/A	Y	N/A	*
Baseline Connector Road	N/A	Y	N/A	*

* - Right out only.

TABLE 2
Dual Turn Lane Warrants

Intersection	Warrants Met? (Y/N)			
	East Leg	West Leg	North Leg	South Leg
Gordon Road	Y	N	Y	Y
Griffin Drive	N	N	N	N
Orchard Road	Y	Y	Y	N

APPENDICES

A. Intersection Turn Lane Warrant Analysis

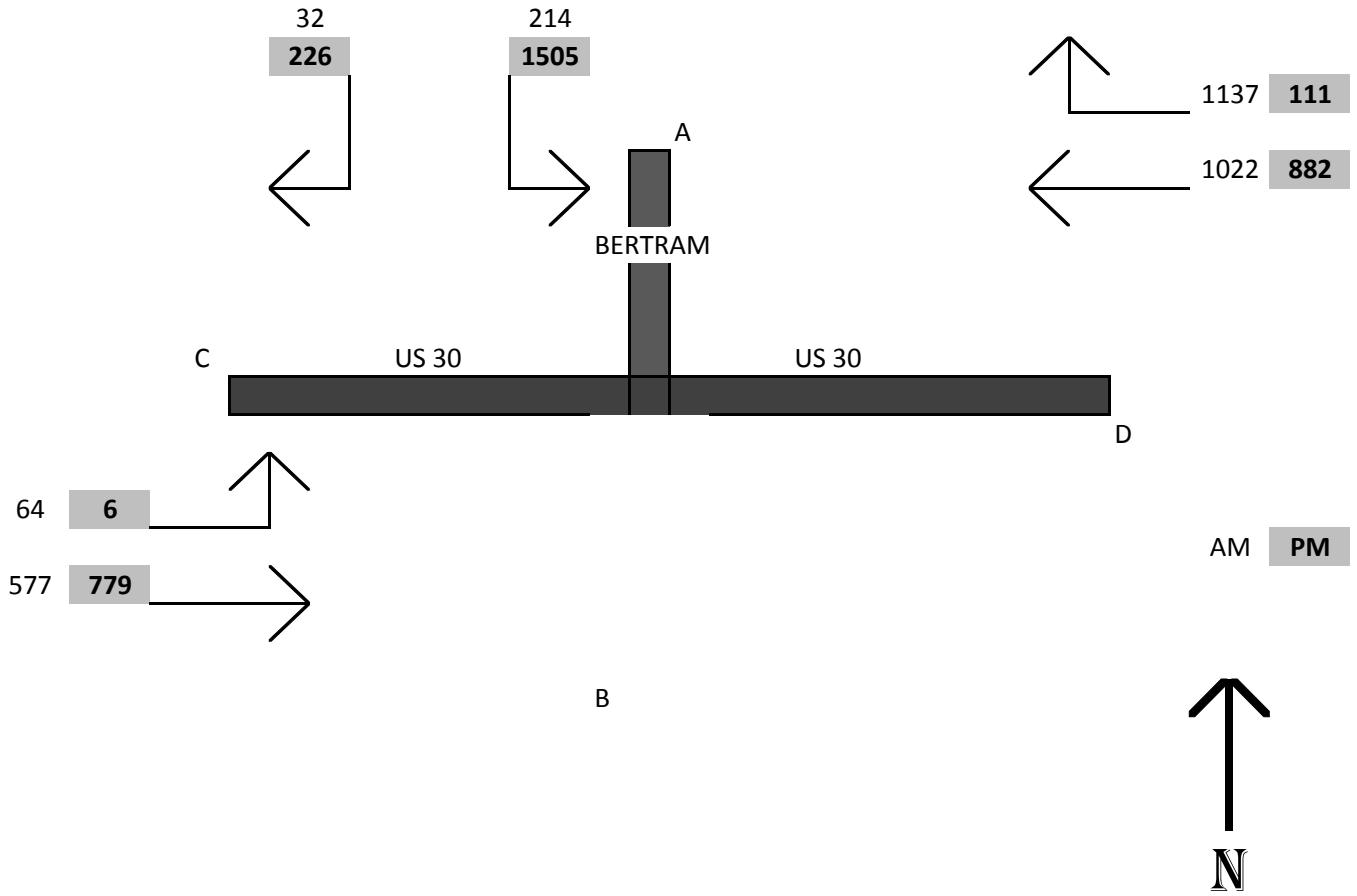
INTERSECTION TURN LANE WARRANT ANALYSIS

Appendix A

US 30
IL 47 to East of Albright Road
Kane & Kendall Counties
P-91-403-11

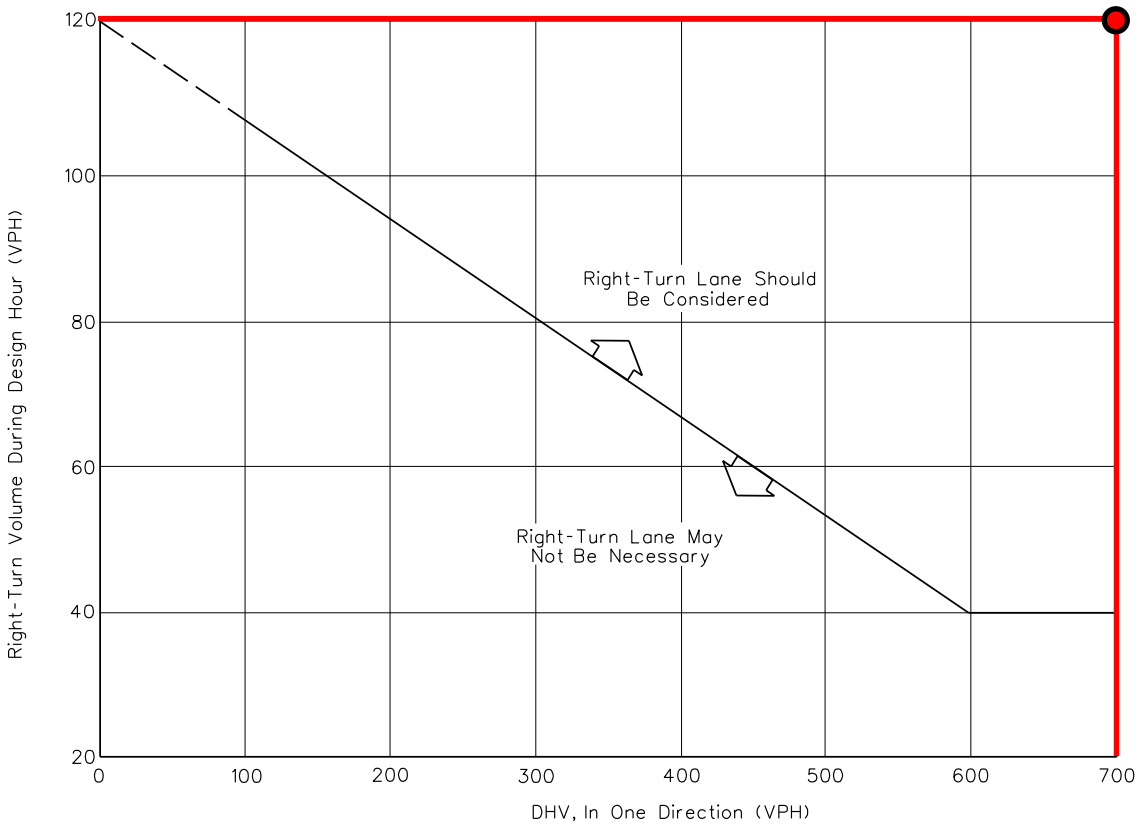
BERTRAM ROAD INTERSECTION

US 30 (BASELINE ROAD) CITY: MONTGOMERY DATE: ########
KANE & KENDALL COUNTIES
P-91-403-11



TRAFFIC MOVEMENT	EXISTING DHV 2012		PERCENT TRUCKS		2040 GROWTH RATE	FUTURE DHV 2040	
	AM	PM	AM	PM		AM	PM
AB	0	0	0%	0%	6.22%	0	0
AD	40	278	5%	0%	6.22%	214	1505
AC	6	42	17%	0%	6.22%	32	226
BA	0	0	0%	0%		0	0
BC	0	0	0%	0%		0	0
BD	0	0	0%	0%		0	0
CD	322	435	5%	8%	2.10%	577	779
CA	36	3	0%	0%	2.10%	64	6
CB	0	0	0%	0%	2.10%	0	0
DC	504	435	5%	8%	2.56%	1022	882
DB	0	0	0%	0%	2.56%	0	0
DA	560	55	0%	0%	2.56%	1137	111

TOTAL - A	642	378	1447	1849
TOTAL - B	0	0	0	0
TOTAL - C	868	915	1696	1893
TOTAL - D	1426	1203	2950	3278



Note: For highways with a design speed below 50 mph (80 km/h), with a DHV in one direction of less than 300, and where right turns are greater than 40, an adjustment should be used. To read the vertical axis of the chart, subtract 20 from the actual number of right turns.

Bertram Rd. is a T intersection

Left Turn DHV = 1505

Right Turn VPH = 226

Right Turn Lane recommended

GUIDELINES FOR RIGHT-TURN LANES AT UNSIGNALIZED INTERSECTIONS ON TWO-LANE HIGHWAYS

Figure 36-3.A

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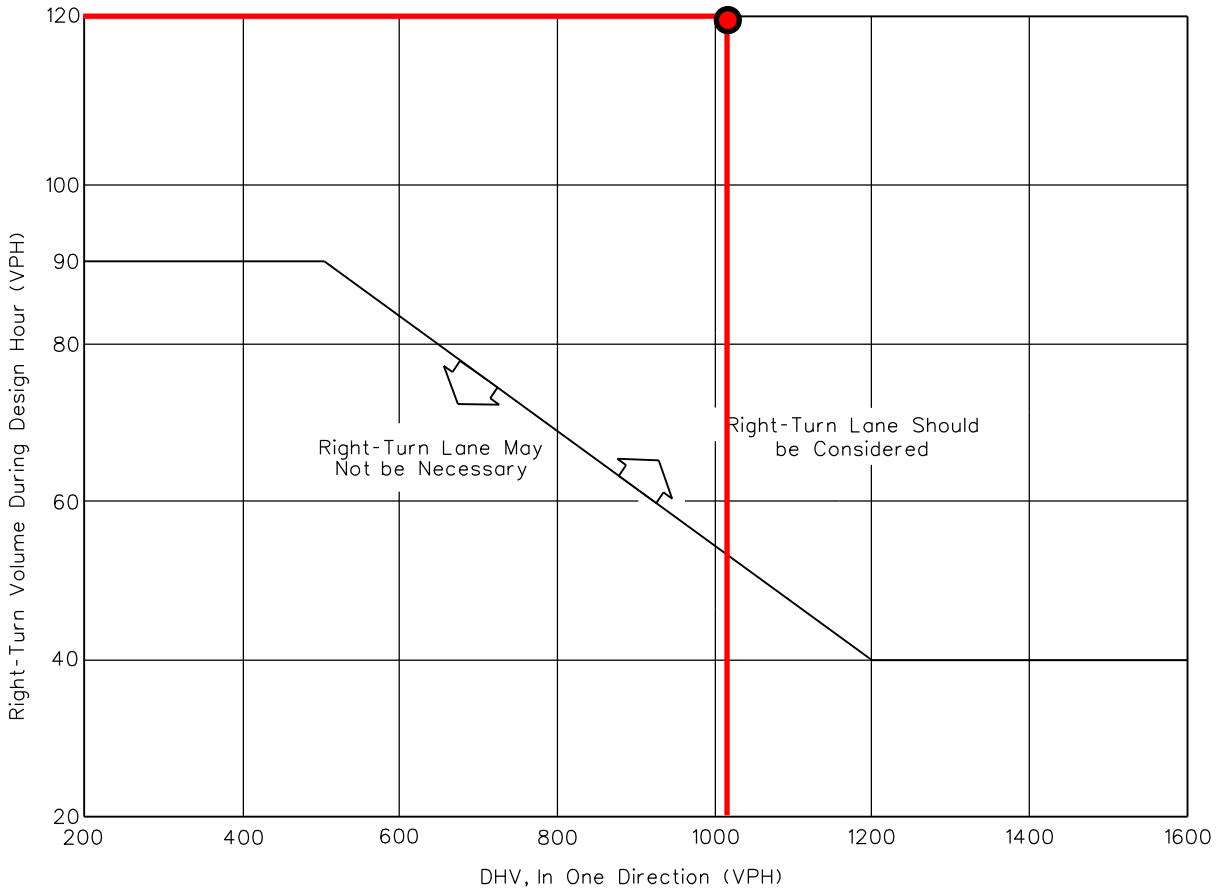


Note: For speeds less than 50 mph (80 km/h), see Section 36-3.01(a).

Through DHV = 1022

Right Turn VPH = 1137

Right Turn Lane recommended

GUIDELINES FOR RIGHT-TURN LANES AT UNSIGNALIZED INTERSECTION ON FOUR-LANE HIGHWAYS
(Design Speed of 50 mph (80 km/h) or Greater)

Figure 36-3.B

36-3.04 Right-Turn Lanes

Section 36-3.02 provides design criteria for right-turn lane widths and lengths. Right-turn lanes may be designed with or without turning roadways depending on site conditions. Figures 36-3.H, 36-3.M, 36-3.N, and 36-3.O(1) illustrate typical designs for right-turn lanes. Because of potential conflicts with right-turning traffic, commercial entrances should not be allowed within the limits of the right-turn lane.

36-3.05 Dual Turn Lanes

36-3.05(a) Guidelines

At intersections with high-turning volumes, dual left- and/or right-turn lanes may be considered. However, multiple turn lanes may cause problems with right-of-way, lane alignment, for crossing pedestrians, and erratic movements for turning drivers. In place of dual right-turn lanes, the designer should consider providing a turning roadway with a design speed of 15 mph (25 km/h) or more and a free-flow, right-turn acceleration lane; see Section 36-2.03. Dual left- and/or right-turn lanes are generally considered where:

- there is insufficient space to provide the necessary length of a single turn lane because of restrictive site conditions (e.g., closely spaced intersections);
- based on a capacity analysis, the necessary time for a protected left-turn phase for a single lane becomes unattainable to meet the level-of-service criteria (average delay per vehicle); and/or
- more than 300 vph are projected to be turning.

Dual turn lanes should only be used with signalization providing a separate turning phase.

Bertram to US 30 DHV = 1505

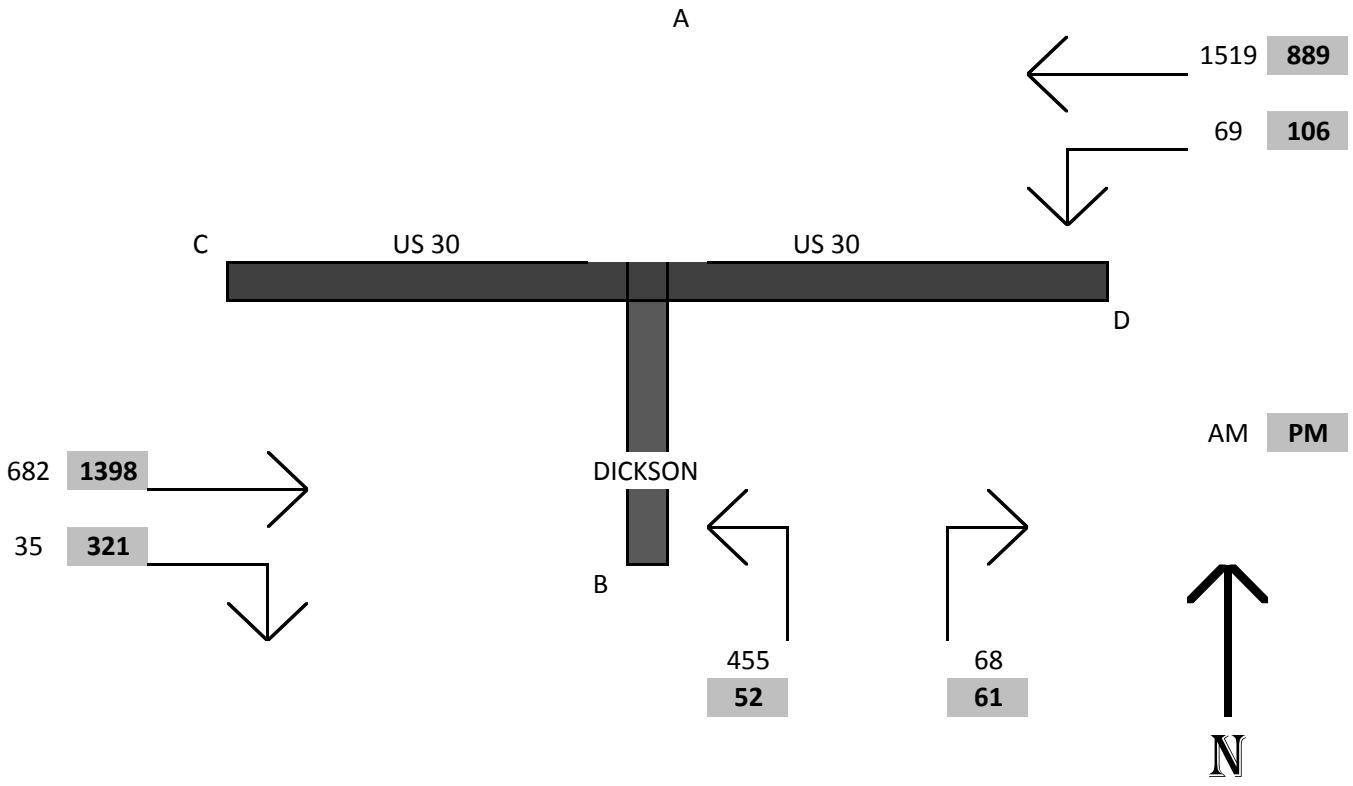
US 30 to Bertram DHV = 64

Bertram intersection is non-signalized existing, which does not allow dual lefts. If Bertram becomes signalized, dual lefts may be needed for the Bertram to US 30 movement.

US 30
IL 47 to East of Albright Road
Kane & Kendall Counties
P-91-403-11

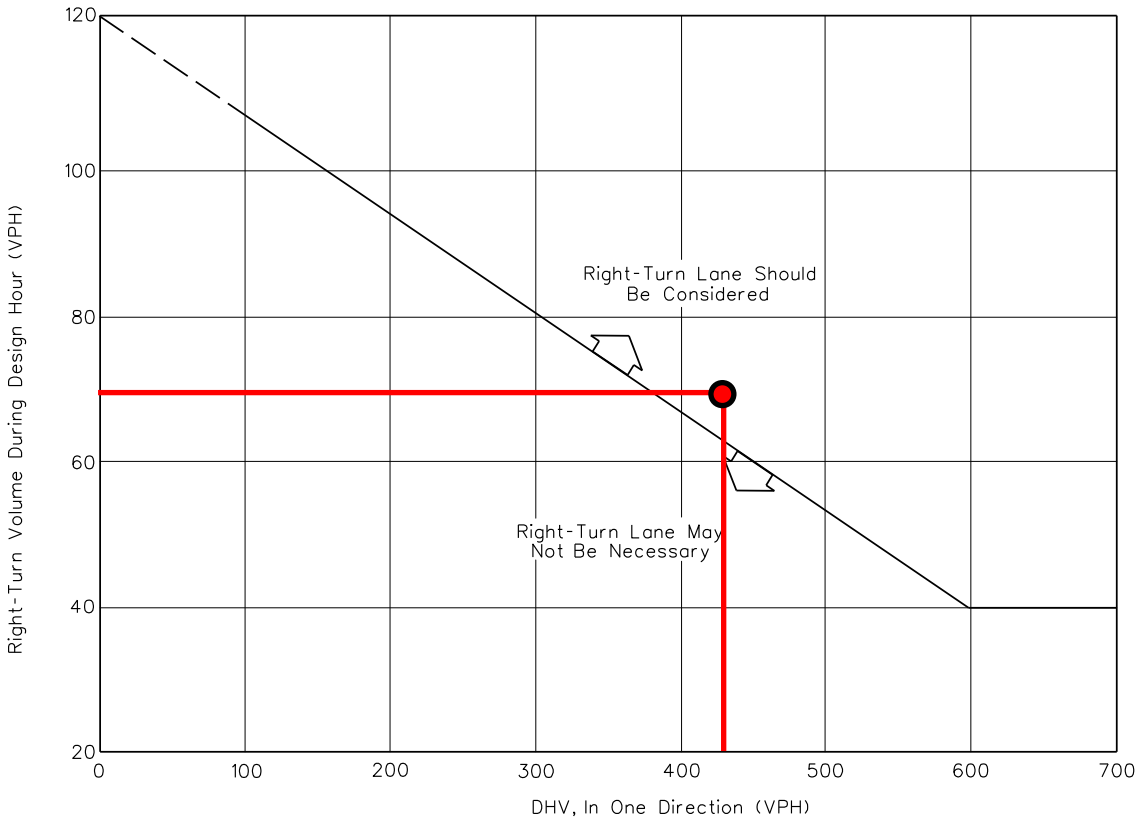
DICKSON ROAD INTERSECTION

US 30 (BASELINE ROAD) CITY: MONTGOMERY DATE: 5/22/2012
KANE & KENDALL COUNTIES
P-91-403-11



TRAFFIC MOVEMENT	EXISTING DHV 2012		PERCENT TRUCKS		2040 GROWTH RATE	FUTURE DHV 2040	
	AM	PM	AM	PM		AM	PM
AB	0	0	0%	0%		0	0
AD	0	0	0%	0%		0	0
AC	0	0	0%	0%		0	0
BA	0	0	0%	0%	2.42%	0	0
BC	233	27	0%	4%	2.42%	455	52
BD	35	31	9%	4%	2.42%	68	61
CD	336	689	7%	3%	2.56%	682	1398
CA	0	0	0%	0%	2.56%	0	0
CB	17	158	0%	0%	2.56%	35	321
DC	749	438	5%	7%	2.56%	1519	889
DB	34	52	0%	4%	2.56%	69	106
DA	0	0	0%	0%	2.56%	0	0

TOTAL - A	0	0	0	0
TOTAL - B	319	269	627	541
TOTAL - C	1335	1312	2691	2660
TOTAL - D	1154	1211	2338	2454



Note: For highways with a design speed below 50 mph (80 km/h), with a DHV in one direction of less than 300, and where right turns are greater than 40, an adjustment should be used. To read the vertical axis of the chart, subtract 20 from the actual number of right turns.

Dickson Rd. is a T intersection

Left Turn DHV = 455

Right Turn VPH = 68

Right Turn Lane could be considered

GUIDELINES FOR RIGHT-TURN LANES AT UNSIGNALIZED INTERSECTIONS ON TWO-LANE HIGHWAYS

Figure 36-3.A

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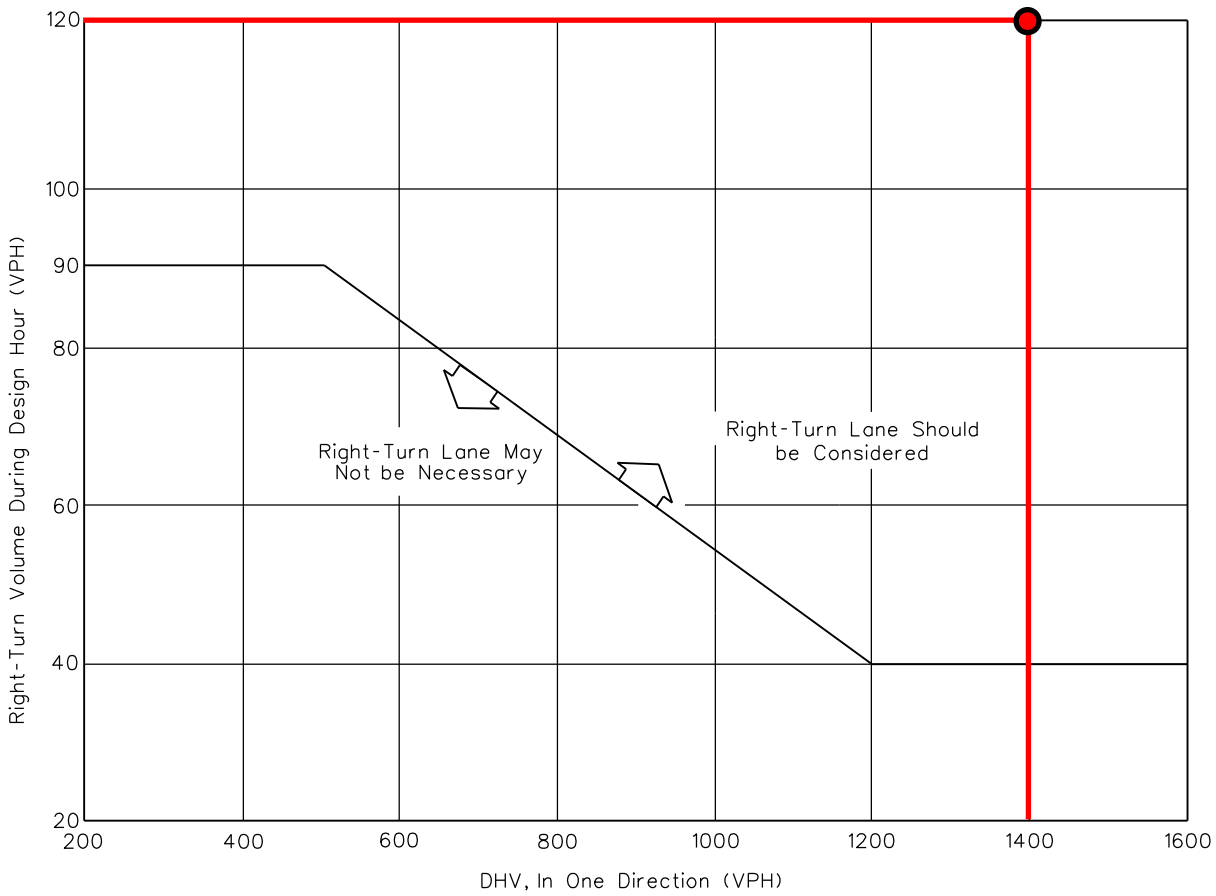


Note: For speeds less than 50 mph (80 km/h), see Section 36-3.01(a).

Through DHV = 1398

Right Turn VPH = 321

Right Turn Lane recommended

GUIDELINES FOR RIGHT-TURN LANES AT UNSIGNALIZED INTERSECTION ON FOUR-LANE HIGHWAYS (Design Speed of 50 mph (80 km/h) or Greater)

Figure 36-3.B

36-3.04 Right-Turn Lanes

Section 36-3.02 provides design criteria for right-turn lane widths and lengths. Right-turn lanes may be designed with or without turning roadways depending on site conditions. Figures 36-3.H, 36-3.M, 36-3.N, and 36-3.O(1) illustrate typical designs for right-turn lanes. Because of potential conflicts with right-turning traffic, commercial entrances should not be allowed within the limits of the right-turn lane.

36-3.05 Dual Turn Lanes

36-3.05(a) Guidelines

At intersections with high-turning volumes, dual left- and/or right-turn lanes may be considered. However, multiple turn lanes may cause problems with right-of-way, lane alignment, for crossing pedestrians, and erratic movements for turning drivers. In place of dual right-turn lanes, the designer should consider providing a turning roadway with a design speed of 15 mph (25 km/h) or more and a free-flow, right-turn acceleration lane; see Section 36-2.03. Dual left- and/or right-turn lanes are generally considered where:

- there is insufficient space to provide the necessary length of a single turn lane because of restrictive site conditions (e.g., closely spaced intersections);
- based on a capacity analysis, the necessary time for a protected left-turn phase for a single lane becomes unattainable to meet the level-of-service criteria (average delay per vehicle); and/or
- more than 300 vph are projected to be turning.

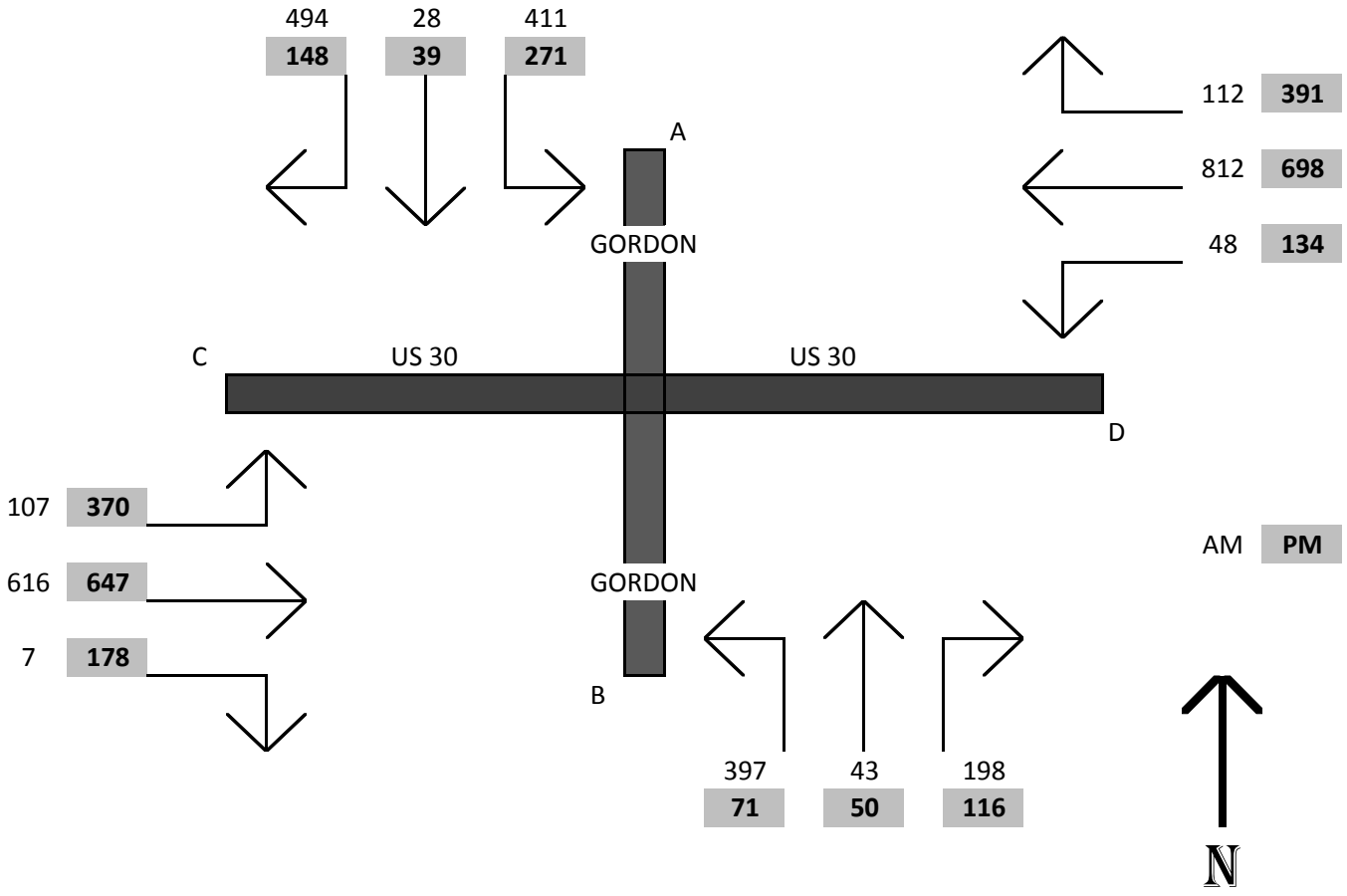
Dual turn lanes should only be used with signalization providing a separate turning phase.

Dickson intersection is non-signalized, so dual lefts not allowed.

US 30
IL 47 to East of Albright Road
Kane & Kendall Counties
P-91-403-11

GORDON ROAD INTERSECTION

US 30 (BASELINE ROAD) CITY: MONTGOMERY DATE: 5/22/2012
KANE & KENDALL COUNTIES
P-91-403-11



TRAFFIC MOVEMENT	EXISTING DHV 2012		PERCENT TRUCKS		2040 GROWTH RATE	FUTURE DHV 2040	
	AM	PM	AM	PM		AM	PM
AB	14	20	14%	5%	2.50%	28	39
AD	206	136	0%	1%	2.50%	411	271
AC	247	74	2%	1%	2.50%	494	148
BA	19	22	19%	10%	3.03%	43	50
BC	172	31	0%	3%	3.03%	397	71
BD	86	50	3%	6%	3.03%	198	116
CD	304	319	6%	9%	2.56%	616	647
CA	53	182	16%	0%	2.56%	107	370
CB	4	88	33%	0%	2.56%	7	178
DC	400	344	8%	8%	2.56%	812	698
DB	24	66	20%	0%	2.56%	48	134
DA	55	193	6%	0%	2.56%	112	391

TOTAL - A	595	626	1197	1269
TOTAL - B	318	276	722	588
TOTAL - C	1180	1038	2434	2112
TOTAL - D	1075	1108	2198	2257

36-3 AUXILIARY TURN LANES

When turning maneuvers for left- and right-turning vehicles occur from the through travel lanes, it typically disrupts the flow of through traffic. This is especially true on high-volume highways. To minimize potential conflicts and to improve the level of service and safety, the use of turn lanes may be warranted for intersections.

36-3.01 Turn Lane Guidelines

36-3.01(a) Right-Turn Lanes

The use of right-turn lanes at intersections can significantly improve operations. Consider using an exclusive right-turn lane:

- at any unsignalized intersection on a two-lane urban or rural highway that satisfies the criteria in Figure 36-3.A;
- at any unsignalized intersection on a high-speed, four-lane urban or rural highway that satisfies the criteria in Figure 36-3.B;
- on expressways at all public road intersections where the current ADT on the side road is greater than 250;
- at any intersection where a capacity analysis determines a right-turn lane is necessary to meet the level-of-service criteria;
- at any signalized intersections where the right-turning volume is greater than 150 vph and where there is greater than 300 vphpl on the mainline;

EB US 30 to SB Gordon	SB Gordon to WB US 30
Mailine VPH = 647	Mainline VPH = 39
Right Turn VPH = 178	Right Turn VPH = 494
Right Turn Lane recommended	Mainline VPH does not warrant right turn lane

WB US 30 to NB Gordon	NB Gordon to EB US 30
Mainline VPH = 698	Mainline VPH = 50
Right Turn VPH = 391	Right Turn VPH = 198
Right Turn Lane Recommended	Mainline VPH does not warrant right turn lane

36-3.04 Right-Turn Lanes

Section 36-3.02 provides design criteria for right-turn lane widths and lengths. Right-turn lanes may be designed with or without turning roadways depending on site conditions. Figures 36-3.H, 36-3.M, 36-3.N, and 36-3.O(1) illustrate typical designs for right-turn lanes. Because of potential conflicts with right-turning traffic, commercial entrances should not be allowed within the limits of the right-turn lane.

36-3.05 Dual Turn Lanes

36-3.05(a) Guidelines

At intersections with high-turning volumes, dual left- and/or right-turn lanes may be considered. However, multiple turn lanes may cause problems with right-of-way, lane alignment, for crossing pedestrians, and erratic movements for turning drivers. In place of dual right-turn lanes, the designer should consider providing a turning roadway with a design speed of 15 mph (25 km/h) or more and a free-flow, right-turn acceleration lane; see Section 36-2.03. Dual left- and/or right-turn lanes are generally considered where:

- there is insufficient space to provide the necessary length of a single turn lane because of restrictive site conditions (e.g., closely spaced intersections);
- based on a capacity analysis, the necessary time for a protected left-turn phase for a single lane becomes unattainable to meet the level-of-service criteria (average delay per vehicle); and/or
- more than 300 vph are projected to be turning.

Dual turn lanes should only be used with signalization providing a separate turning phase.

EB US 30 to NB Gordon VPH = 370

Dual Lefts may be required

WB US 30 to SB Gordon VPH = 134

Dual Lefts not required

SB Gordon to EB US 30 VPH = 411

Dual Lefts may be required

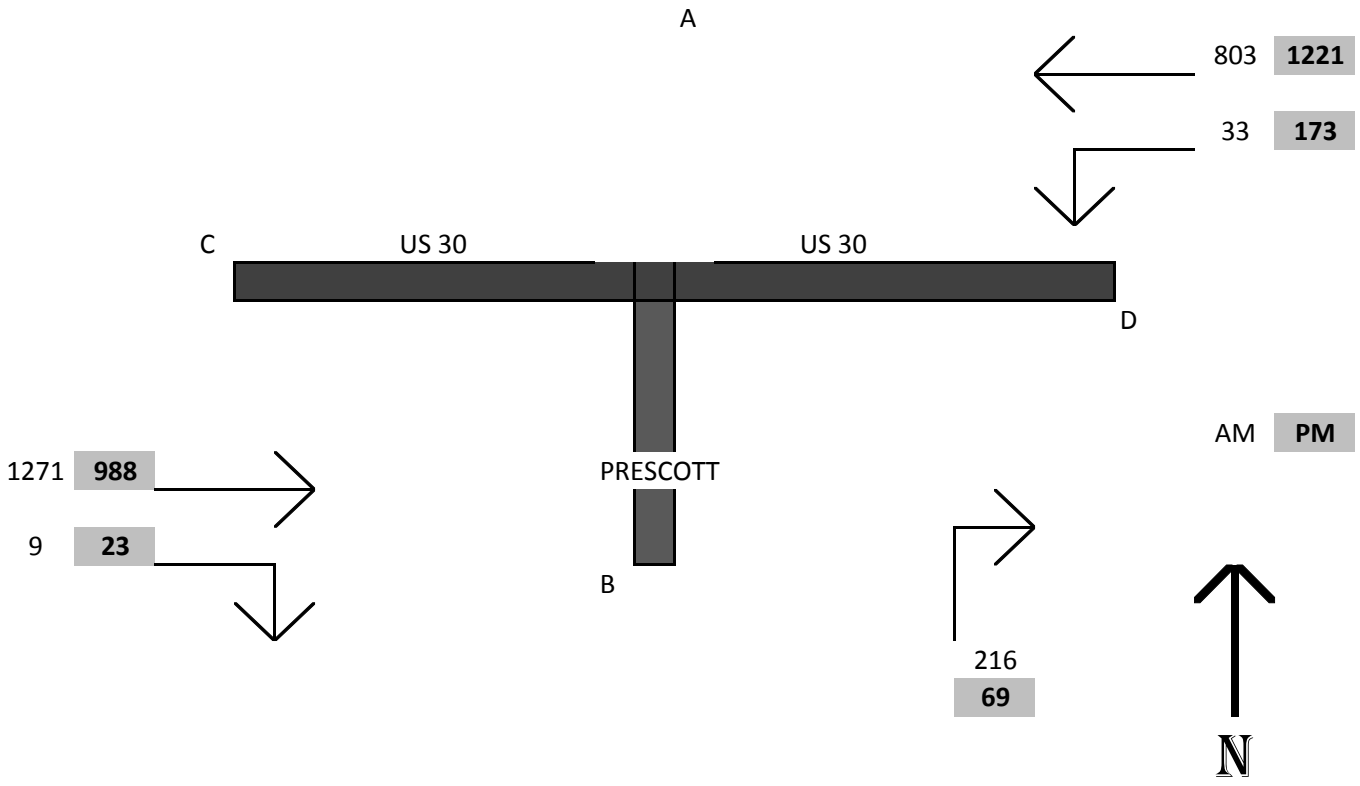
NB Gordon to WB US 30 VPH = 397

Dual Lefts may be required

US 30
IL 47 to East of Albright Road
Kane & Kendall Counties
P-91-403-11

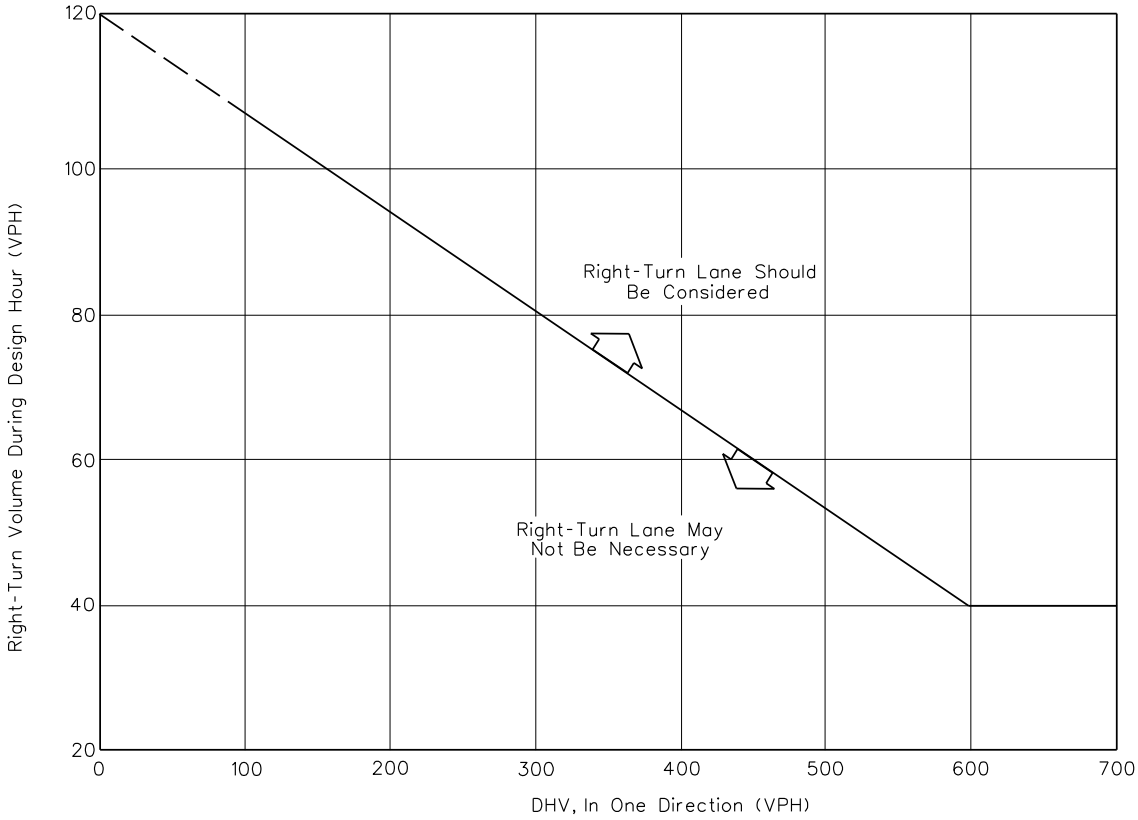
PRESCOTT DRIVE INTERSECTION

US 30 (BASELINE ROAD) CITY: MONTGOMERY DATE: 5/22/2012
KANE & KENDALL COUNTIES
P-91-403-11



TRAFFIC MOVEMENT	EXISTING DHV 2012		PERCENT TRUCKS		2040 GROWTH RATE	FUTURE DHV 2040	
	AM	PM	AM	PM		AM	PM
AB	0	0	0%	0%		0	0
AD	0	0	0%	0%		0	0
AC	0	0	0%	0%		0	0
BA	0	0	0%	0%	2.50%	0	0
BC	0	0	0%	0%	2.50%	0	0
BD	108	35	0%	0%	2.50%	216	69
CD	627	487	4%	4%	2.56%	1271	988
CA	0	0	0%	0%	2.56%	0	0
CB	4	11	0%	9%	2.56%	9	23
DC	396	602	6%	4%	2.56%	803	1221
DB	16	85	0%	0%	2.56%	33	173
DA	0	0	0%	0%	2.56%	0	0

TOTAL - A	0	0	0	0
TOTAL - B	129	131	258	265
TOTAL - C	1027	1100	2084	2231
TOTAL - D	1148	1209	2324	2451



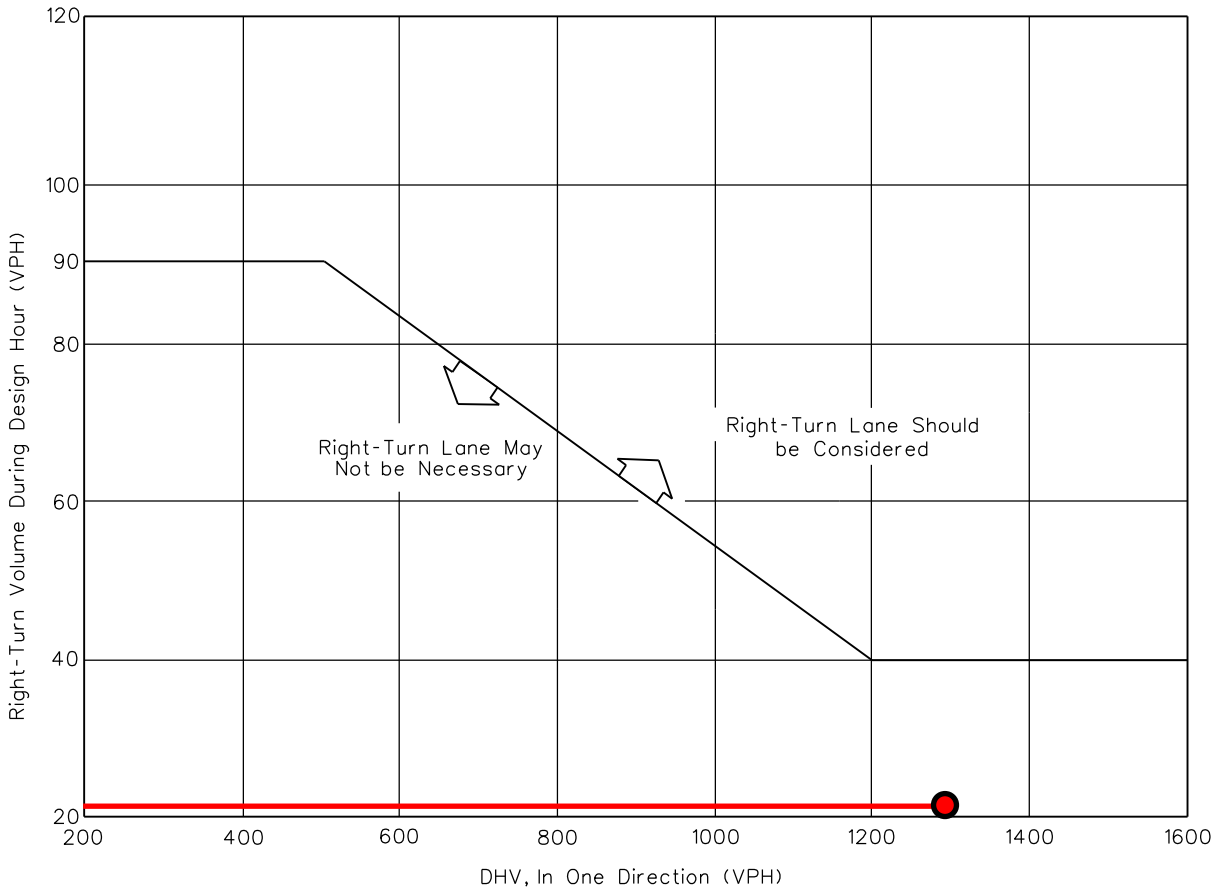
Note: For highways with a design speed below 50 mph (80 km/h), with a DHV in one direction of less than 300, and where right turns are greater than 40, an adjustment should be used. To read the vertical axis of the chart, subtract 20 from the actual number of right turns.

Figure not applicable. Prescott is right turn only.

GUIDELINES FOR RIGHT-TURN LANES AT UNSIGNALIZED INTERSECTIONS ON TWO-LANE HIGHWAYS

Figure 36-3.A

HARD COPIES UNCONTROLLED



Note: For speeds less than 50 mph (80 km/h), see Section 36-3.01(a).

Through DHV = 1271

Right Turn VPH = 23

Right Turn Lane not required

*Right Turn Lane does exist today

GUIDELINES FOR RIGHT-TURN LANES AT UNSIGNALIZED INTERSECTION ON FOUR-LANE HIGHWAYS (Design Speed of 50 mph (80 km/h) or Greater)

Figure 36-3.B

36-3.04 Right-Turn Lanes

Section 36-3.02 provides design criteria for right-turn lane widths and lengths. Right-turn lanes may be designed with or without turning roadways depending on site conditions. Figures 36-3.H, 36-3.M, 36-3.N, and 36-3.O(1) illustrate typical designs for right-turn lanes. Because of potential conflicts with right-turning traffic, commercial entrances should not be allowed within the limits of the right-turn lane.

36-3.05 Dual Turn Lanes

36-3.05(a) Guidelines

At intersections with high-turning volumes, dual left- and/or right-turn lanes may be considered. However, multiple turn lanes may cause problems with right-of-way, lane alignment, for crossing pedestrians, and erratic movements for turning drivers. In place of dual right-turn lanes, the designer should consider providing a turning roadway with a design speed of 15 mph (25 km/h) or more and a free-flow, right-turn acceleration lane; see Section 36-2.03. Dual left- and/or right-turn lanes are generally considered where:

- there is insufficient space to provide the necessary length of a single turn lane because of restrictive site conditions (e.g., closely spaced intersections);
- based on a capacity analysis, the necessary time for a protected left-turn phase for a single lane becomes unattainable to meet the level-of-service criteria (average delay per vehicle); and/or
- more than 300 vph are projected to be turning.

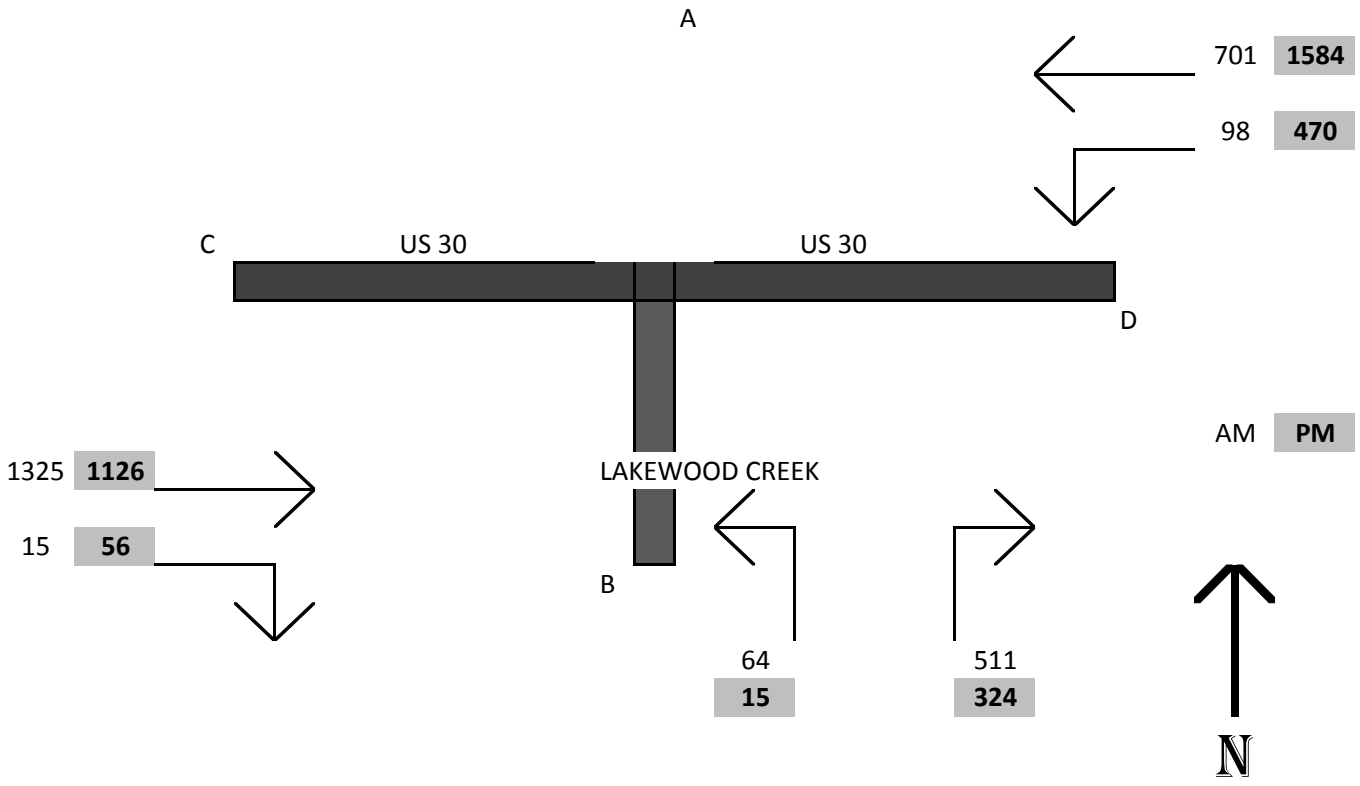
Dual turn lanes should only be used with signalization providing a separate turning phase.

Prescott intersection is non-signalized, so dual lefts not allowed.

US 30
IL 47 to East of Albright Road
Kane & Kendall Counties
P-91-403-11

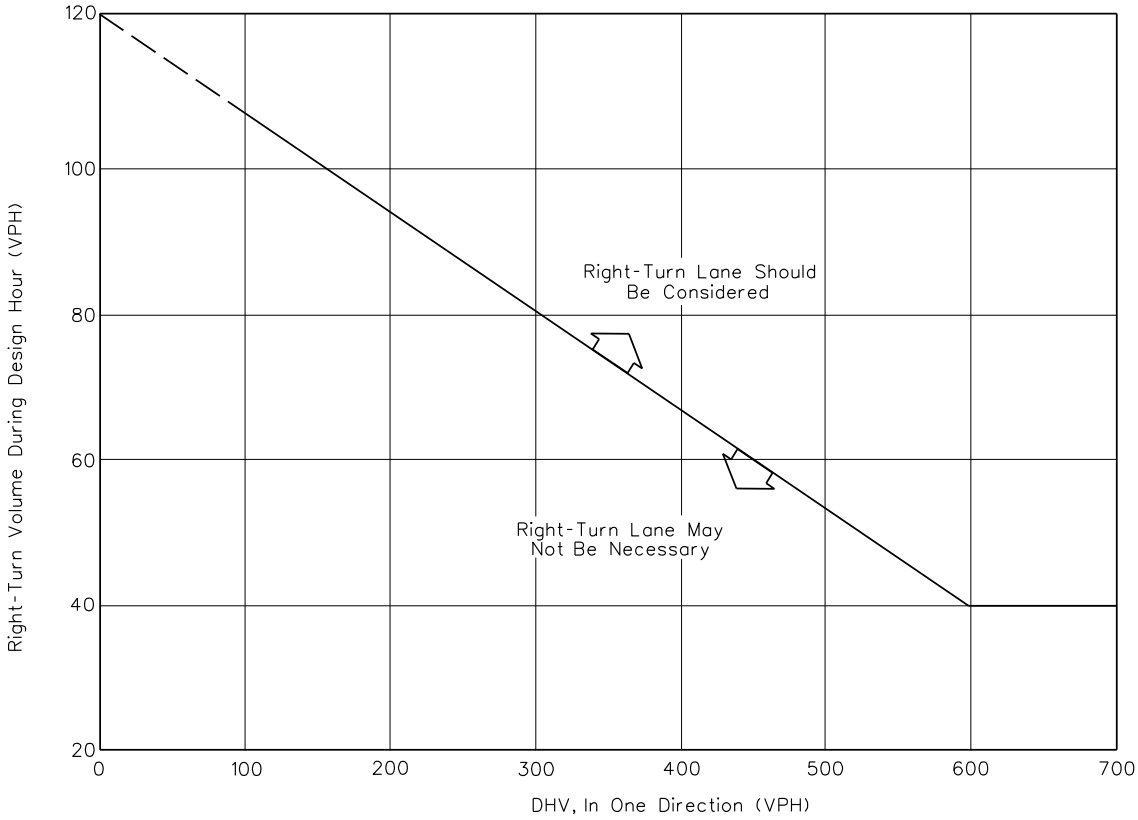
LAKEWOOD CREEK INTERSECTION

US 30 (BASELINE ROAD) CITY: MONTGOMERY DATE: 5/22/2012
KANE & KENDALL COUNTIES
P-91-403-11



TRAFFIC MOVEMENT	EXISTING DHV 2012		PERCENT TRUCKS		2040 GROWTH RATE	FUTURE DHV 2040	
	AM	PM	AM	PM		AM	PM
AB	0	0	0%	0%		0	0
AD	0	0	0%	0%		0	0
AC	0	0	0%	0%		0	0
BA	0	0	0%	0%	2.79%	0	0
BC	29	7	4%	17%	2.79%	64	15
BD	236	150	3%	2%	2.79%	511	324
CD	653	555	4%	6%	2.56%	1325	1126
CA	0	0	0%	0%	2.56%	0	0
CB	7	27	0%	0%	2.56%	15	56
DC	345	781	7%	5%	2.56%	701	1584
DB	48	232	9%	0%	2.56%	98	470
DA	0	0	0%	0%	2.56%	0	0

TOTAL - A	0	0	0	0
TOTAL - B	321	416	688	864
TOTAL - C	1035	1371	2104	2781
TOTAL - D	1283	1718	2635	3504



Note: For highways with a design speed below 50 mph (80 km/h), with a DHV in one direction of less than 300, and where right turns are greater than 40, an adjustment should be used. To read the vertical axis of the chart, subtract 20 from the actual number of right turns.

Figure not applicable. Lakewood Creek has only left and right turn lanes existing.

GUIDELINES FOR RIGHT-TURN LANES AT UNSIGNALIZED INTERSECTIONS ON TWO-LANE HIGHWAYS

Figure 36-3.A

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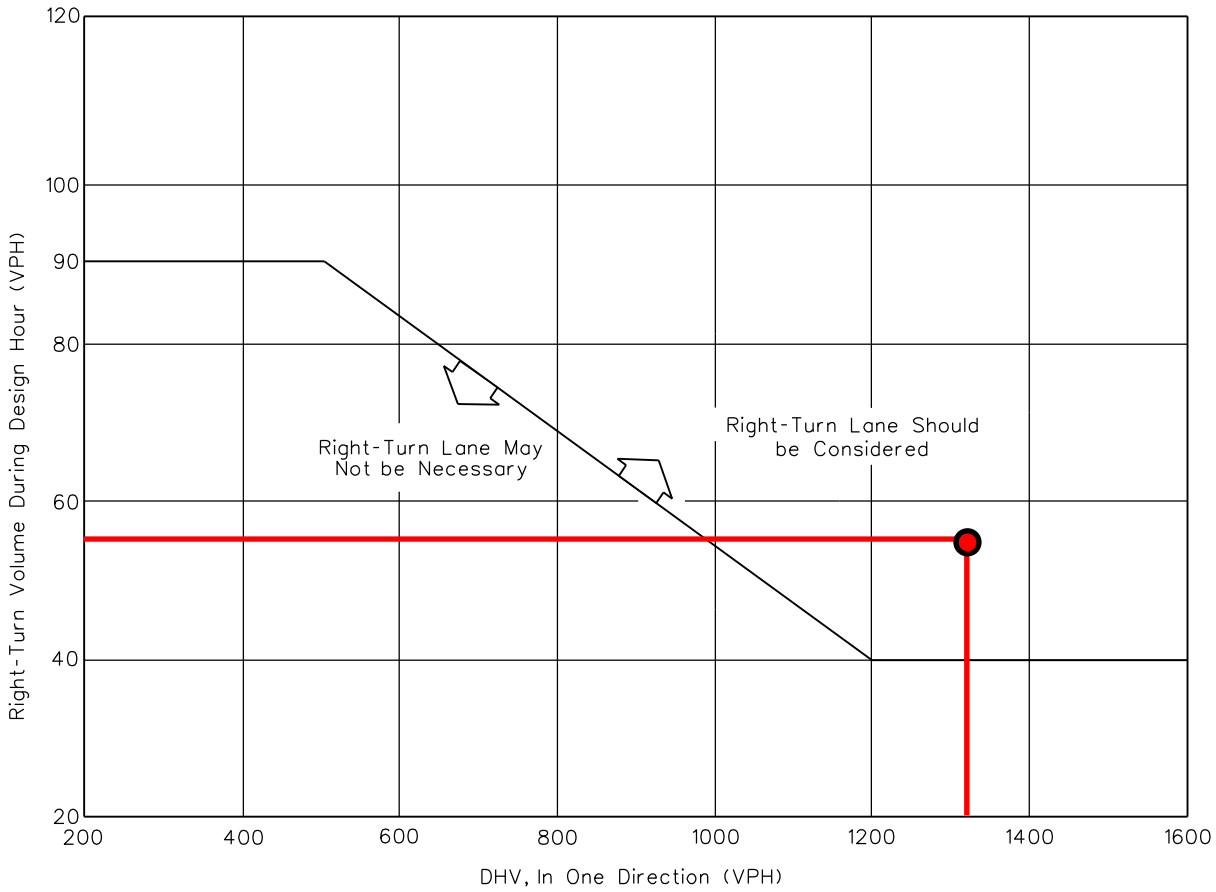


Note: For speeds less than 50 mph (80 km/h), see Section 36-3.01(a).

Through DHV = 1325

Right Turn VPH = 56

Right Turn Lane recommended

GUIDELINES FOR RIGHT-TURN LANES AT UNSIGNALIZED INTERSECTION ON FOUR-LANE HIGHWAYS
(Design Speed of 50 mph (80 km/h) or Greater)

Figure 36-3.B

36-3.04 Right-Turn Lanes

Section 36-3.02 provides design criteria for right-turn lane widths and lengths. Right-turn lanes may be designed with or without turning roadways depending on site conditions. Figures 36-3.H, 36-3.M, 36-3.N, and 36-3.O(1) illustrate typical designs for right-turn lanes. Because of potential conflicts with right-turning traffic, commercial entrances should not be allowed within the limits of the right-turn lane.

36-3.05 Dual Turn Lanes

36-3.05(a) Guidelines

At intersections with high-turning volumes, dual left- and/or right-turn lanes may be considered. However, multiple turn lanes may cause problems with right-of-way, lane alignment, for crossing pedestrians, and erratic movements for turning drivers. In place of dual right-turn lanes, the designer should consider providing a turning roadway with a design speed of 15 mph (25 km/h) or more and a free-flow, right-turn acceleration lane; see Section 36-2.03. Dual left- and/or right-turn lanes are generally considered where:

- there is insufficient space to provide the necessary length of a single turn lane because of restrictive site conditions (e.g., closely spaced intersections);
- based on a capacity analysis, the necessary time for a protected left-turn phase for a single lane becomes unattainable to meet the level-of-service criteria (average delay per vehicle); and/or
- more than 300 vph are projected to be turning.

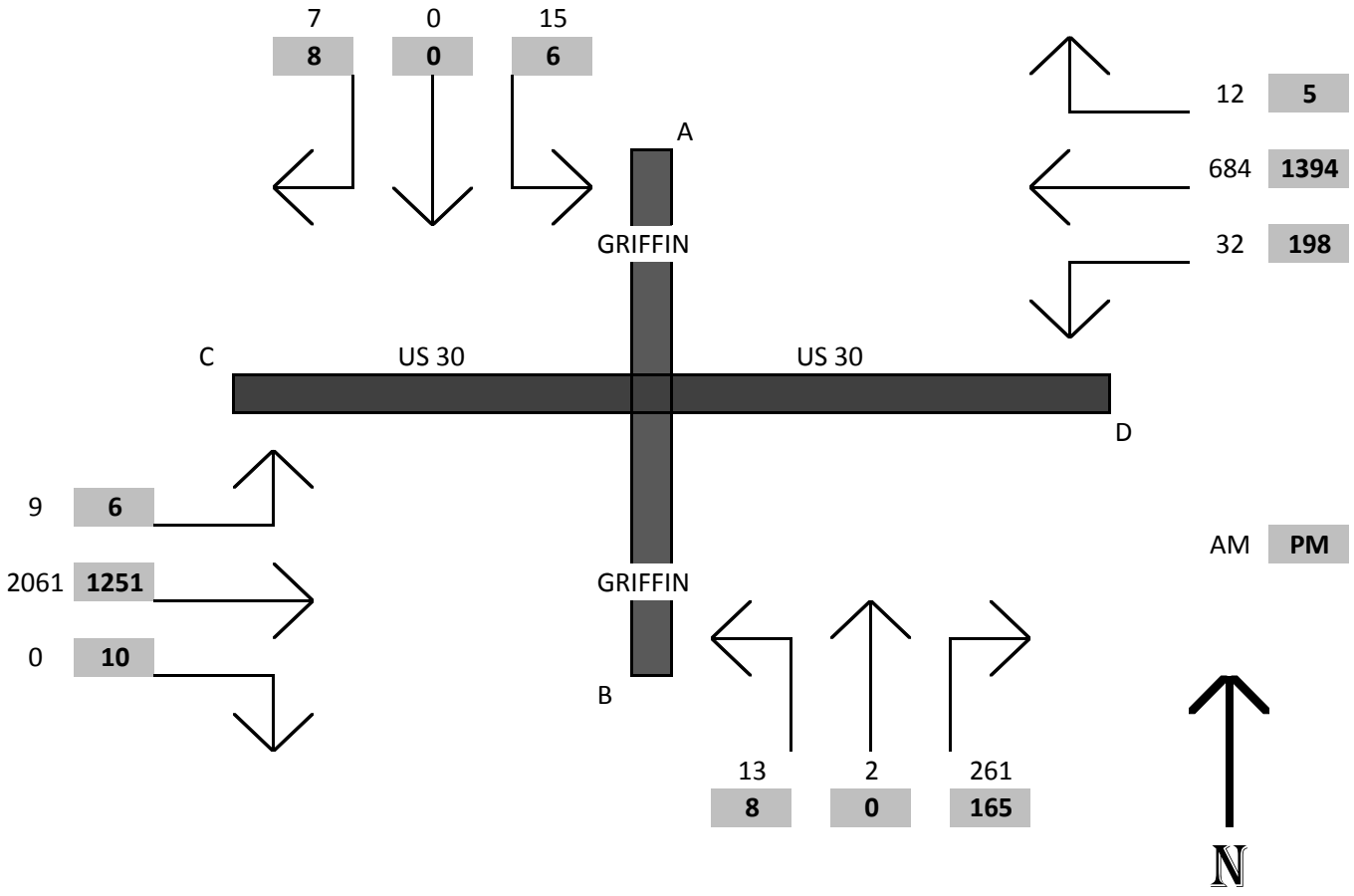
Dual turn lanes should only be used with signalization providing a separate turning phase.

Lakewood Creek intersection is non-signalized, so dual lefts not allowed.

US 30
IL 47 to East of Albright Road
Kane & Kendall Counties
P-91-403-11

GRIFFIN DRIVE INTERSECTION

US 30 (BASELINE ROAD) CITY: MONTGOMERY DATE: 5/22/2012
KANE & KENDALL COUNTIES
P-91-403-11



TRAFFIC MOVEMENT	EXISTING DHV 2012		PERCENT TRUCKS		2040 GROWTH RATE	FUTURE DHV 2040	
	AM	PM	AM	PM		AM	PM
AB	0	0	0%	0%	2.50%	0	0
AD	8	3	0%	0%	2.50%	15	6
AC	3	4	0%	0%	2.50%	7	8
BA	1	0	0%	0%	2.50%	2	0
BC	7	4	0%	0%	2.50%	13	8
BD	131	83	5%	4%	2.50%	261	165
CD	1016	617	2%	8%	2.56%	2061	1251
CA	4	3	0%	0%	2.56%	9	6
CB	0	5	0%	0%	2.56%	0	10
DC	446	908	6%	4%	1.54%	684	1394
DB	21	129	32%	2%	1.54%	32	198
DA	8	3	29%	0%	1.54%	12	5

TOTAL - A	24	13	45	25
TOTAL - B	159	221	308	382
TOTAL - C	1476	1542	2774	2679
TOTAL - D	1629	1743	3065	3020

36-3 AUXILIARY TURN LANES

When turning maneuvers for left- and right-turning vehicles occur from the through travel lanes, it typically disrupts the flow of through traffic. This is especially true on high-volume highways. To minimize potential conflicts and to improve the level of service and safety, the use of turn lanes may be warranted for intersections.

36-3.01 Turn Lane Guidelines

36-3.01(a) Right-Turn Lanes

The use of right-turn lanes at intersections can significantly improve operations. Consider using an exclusive right-turn lane:

- at any unsignalized intersection on a two-lane urban or rural highway that satisfies the criteria in Figure 36-3.A;
- at any unsignalized intersection on a high-speed, four-lane urban or rural highway that satisfies the criteria in Figure 36-3.B;
- on expressways at all public road intersections where the current ADT on the side road is greater than 250;
- at any intersection where a capacity analysis determines a right-turn lane is necessary to meet the level-of-service criteria;
- at any signalized intersections where the right-turning volume is greater than 150 vph and where there is greater than 300 vphpl on the mainline;

EB US 30 to SB Griffin	SB Griffin to WB US 30
Mainline VPH = 2061	Mainline VPH = 0
Right Turn VPH = 10	Right Turn VPH = 8
Right Turn Lane not required	Right Turn Lane not required
WB US 30 to NB Griffin	NB Griffin to EB US 30
Mainline VPH = 1394	Mainline VPH = 2
Right Turn VPH = 12	Right Turn VPH = 261
Right Turn Lane not required	Right Turn Lane not required

* Right Turn Lanes exist on west, east and south legs of intersection today

36-3.04 Right-Turn Lanes

Section 36-3.02 provides design criteria for right-turn lane widths and lengths. Right-turn lanes may be designed with or without turning roadways depending on site conditions. Figures 36-3.H, 36-3.M, 36-3.N, and 36-3.O(1) illustrate typical designs for right-turn lanes. Because of potential conflicts with right-turning traffic, commercial entrances should not be allowed within the limits of the right-turn lane.

36-3.05 Dual Turn Lanes

36-3.05(a) Guidelines

At intersections with high-turning volumes, dual left- and/or right-turn lanes may be considered. However, multiple turn lanes may cause problems with right-of-way, lane alignment, for crossing pedestrians, and erratic movements for turning drivers. In place of dual right-turn lanes, the designer should consider providing a turning roadway with a design speed of 15 mph (25 km/h) or more and a free-flow, right-turn acceleration lane; see Section 36-2.03. Dual left- and/or right-turn lanes are generally considered where:

- there is insufficient space to provide the necessary length of a single turn lane because of restrictive site conditions (e.g., closely spaced intersections);
- based on a capacity analysis, the necessary time for a protected left-turn phase for a single lane becomes unattainable to meet the level-of-service criteria (average delay per vehicle); and/or
- more than 300 vph are projected to be turning.

Dual turn lanes should only be used with signalization providing a separate turning phase.

EB US 30 to NB Griffin VPH = 9

Dual Lefts not required

WB US 30 to SB Griffin VPH = 198

Dual Lefts not required

SB Griffin to EB US 30 VPH = 15

Dual Lefts not required

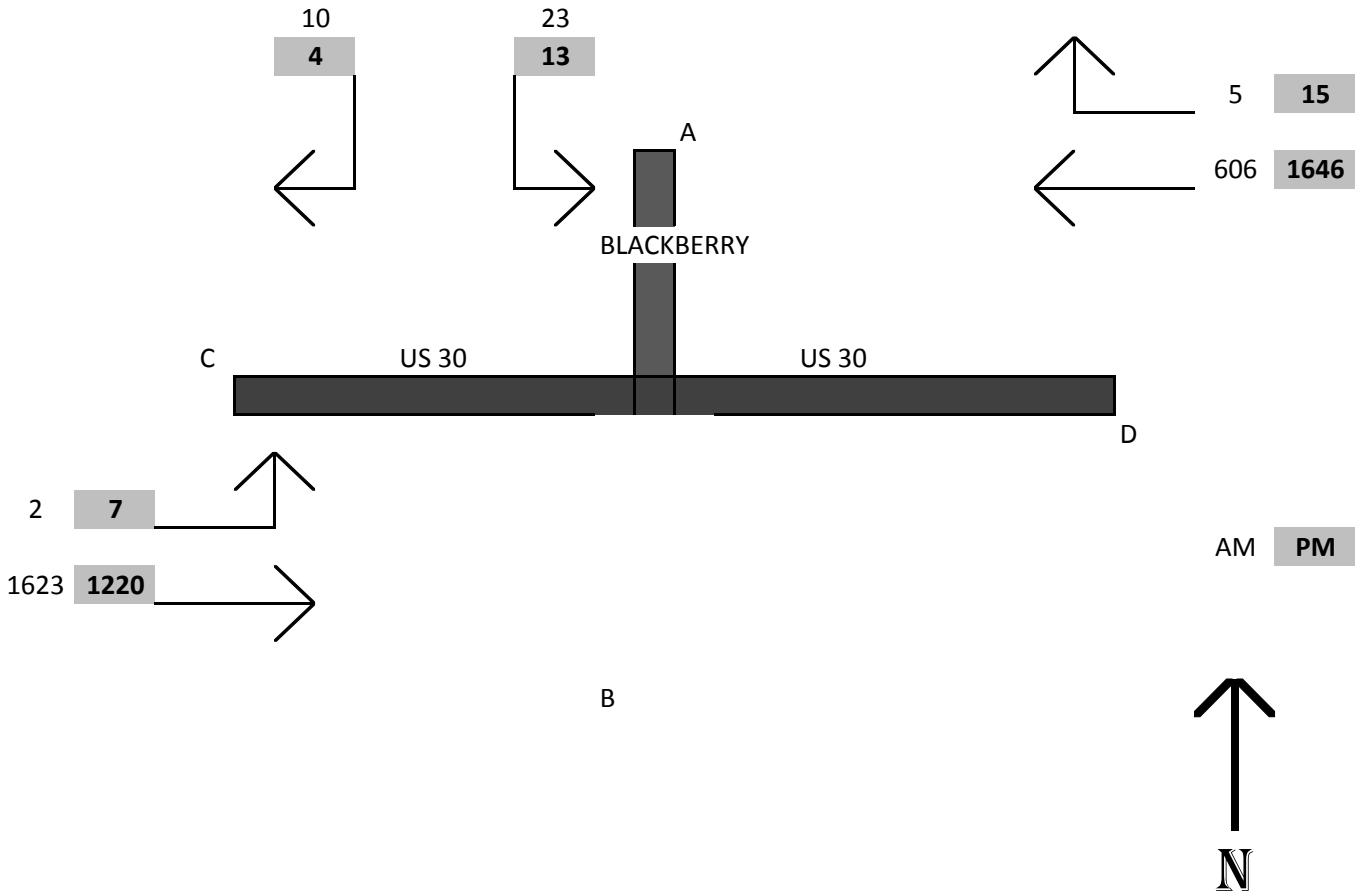
NB Griffin to WB US 30 VPH = 13

Dual Lefts not required

US 30
IL 47 to East of Albright Road
Kane & Kendall Counties
P-91-403-11

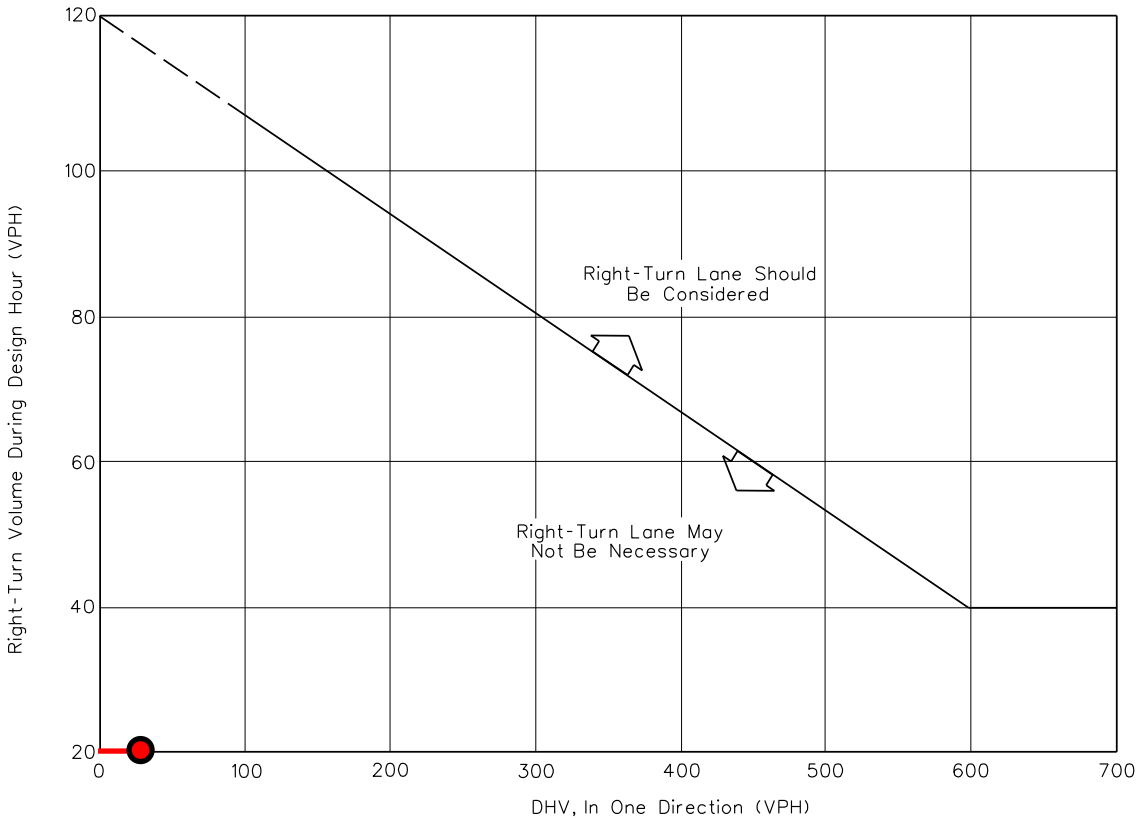
BLACKBERRY ROAD INTERSECTION

US 30 (BASELINE ROAD) CITY: MONTGOMERY DATE: 5/22/2012
KANE & KENDALL COUNTIES
P-91-403-11



TRAFFIC MOVEMENT	EXISTING DHV 2012		PERCENT TRUCKS		2040 GROWTH RATE	FUTURE DHV 2040	
	AM	PM	AM	PM		AM	PM
AB	0	0	0%	0%	2.00%	0	0
AD	13	8	0%	0%	2.00%	23	13
AC	6	2	0%	46%	2.00%	10	4
BA	0	0	0%	0%		0	0
BC	0	0	0%	0%		0	0
BD	0	0	0%	0%		0	0
CD	1058	795	4%	5%	1.54%	1623	1220
CA	1	4	0%	0%	1.54%	2	7
CB	0	0	0%	0%	1.54%	0	0
DC	395	1073	11%	3%	1.54%	606	1646
DB	0	0	0%	0%	1.54%	0	0
DA	3	10	0%	0%	1.54%	5	15

TOTAL - A	23	24	40	39
TOTAL - B	0	0	0	0
TOTAL - C	1459	1874	2241	2877
TOTAL - D	1469	1885	2258	2895



Note: For highways with a design speed below 50 mph (80 km/h), with a DHV in one direction of less than 300, and where right turns are greater than 40, an adjustment should be used. To read the vertical axis of the chart, subtract 20 from the actual number of right turns.

Blackberry is a T intersection

Left Turn DHV = 23

Right Turn VPH = 10

Right Turn Lane not required

GUIDELINES FOR RIGHT-TURN LANES AT UNSIGNALIZED INTERSECTIONS ON TWO-LANE HIGHWAYS

Figure 36-3.A

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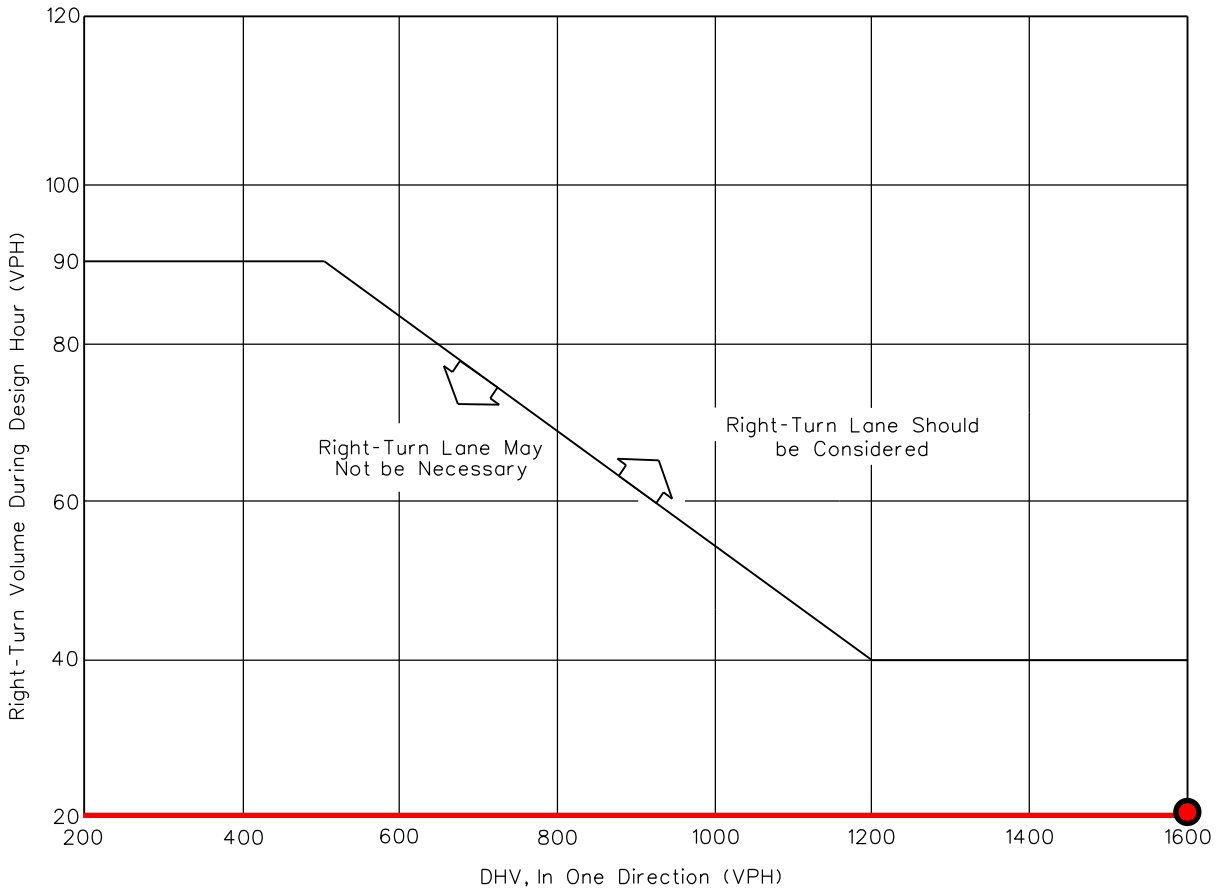


Note: For speeds less than 50 mph (80 km/h), see Section 36-3.01(a).

Through DHV = 1646

Right Turn VPH = 15

Right Turn Lane could be required base on through DHV

GUIDELINES FOR RIGHT-TURN LANES AT UNSIGNALIZED INTERSECTION ON FOUR-LANE HIGHWAYS (Design Speed of 50 mph (80 km/h) or Greater)

Figure 36-3.B

36-3.04 Right-Turn Lanes

Section 36-3.02 provides design criteria for right-turn lane widths and lengths. Right-turn lanes may be designed with or without turning roadways depending on site conditions. Figures 36-3.H, 36-3.M, 36-3.N, and 36-3.O(1) illustrate typical designs for right-turn lanes. Because of potential conflicts with right-turning traffic, commercial entrances should not be allowed within the limits of the right-turn lane.

36-3.05 Dual Turn Lanes

36-3.05(a) Guidelines

At intersections with high-turning volumes, dual left- and/or right-turn lanes may be considered. However, multiple turn lanes may cause problems with right-of-way, lane alignment, for crossing pedestrians, and erratic movements for turning drivers. In place of dual right-turn lanes, the designer should consider providing a turning roadway with a design speed of 15 mph (25 km/h) or more and a free-flow, right-turn acceleration lane; see Section 36-2.03. Dual left- and/or right-turn lanes are generally considered where:

- there is insufficient space to provide the necessary length of a single turn lane because of restrictive site conditions (e.g., closely spaced intersections);
- based on a capacity analysis, the necessary time for a protected left-turn phase for a single lane becomes unattainable to meet the level-of-service criteria (average delay per vehicle); and/or
- more than 300 vph are projected to be turning.

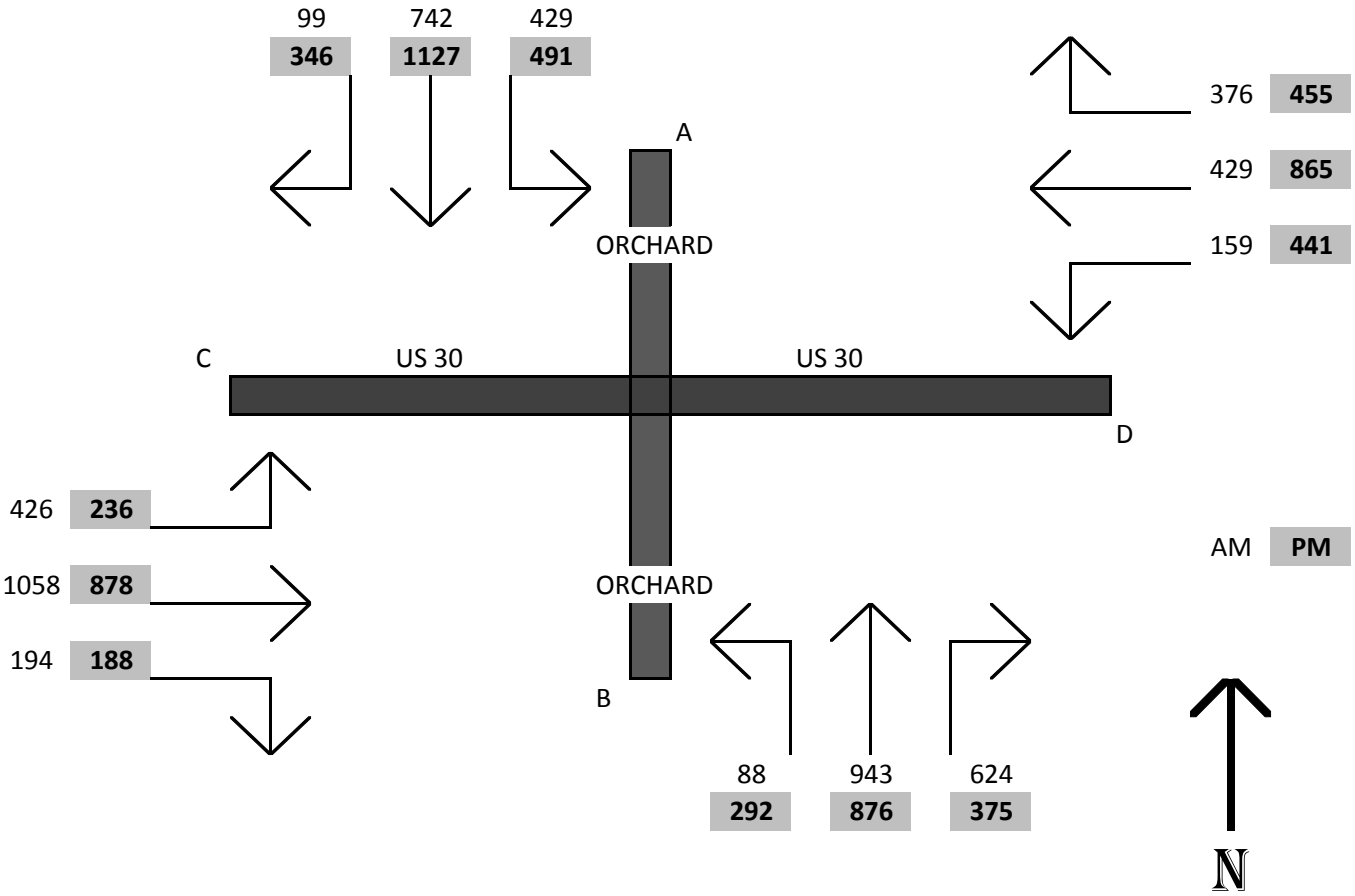
Dual turn lanes should only be used with signalization providing a separate turning phase.

Blackberry intersection is non-signalized, so dual lefts not allowed.

US 30
IL 47 to East of Albright Road
Kane & Kendall Counties
P-91-403-11

ORCHARD ROAD INTERSECTION

US 30 (BASELINE ROAD) CITY: MONTGOMERY DATE: 5/22/2012
KANE & KENDALL COUNTIES
P-91-403-11



TRAFFIC MOVEMENT	EXISTING DHV 2012		PERCENT TRUCKS		2040 GROWTH RATE	FUTURE DHV 2040	
	AM	PM	AM	PM		AM	PM
AB	425	645	7%	5%	2.01%	742	1127
AD	246	281	6%	6%	2.01%	429	491
AC	57	198	7%	3%	2.01%	99	346
BA	623	578	6%	4%	1.49%	943	876
BC	58	193	9%	3%	1.49%	88	292
BD	412	248	2%	3%	1.49%	624	375
CD	689	572	4%	5%	1.54%	1058	878
CA	277	154	2%	5%	1.54%	426	236
CB	127	123	3%	2%	1.54%	194	188
DC	304	613	11%	4%	1.24%	429	865
DB	113	312	10%	2%	1.24%	159	441
DA	267	322	7%	5%	1.24%	376	455

TOTAL - A	1894	2179	3016	3532
TOTAL - B	1756	2100	2750	3300
TOTAL - C	1512	1853	2294	2806
TOTAL - D	2030	2348	3075	3505

36-3 AUXILIARY TURN LANES

When turning maneuvers for left- and right-turning vehicles occur from the through travel lanes, it typically disrupts the flow of through traffic. This is especially true on high-volume highways. To minimize potential conflicts and to improve the level of service and safety, the use of turn lanes may be warranted for intersections.

36-3.01 Turn Lane Guidelines

36-3.01(a) Right-Turn Lanes

The use of right-turn lanes at intersections can significantly improve operations. Consider using an exclusive right-turn lane:

- at any unsignalized intersection on a two-lane urban or rural highway that satisfies the criteria in Figure 36-3.A;
- at any unsignalized intersection on a high-speed, four-lane urban or rural highway that satisfies the criteria in Figure 36-3.B;
- on expressways at all public road intersections where the current ADT on the side road is greater than 250;
- at any intersection where a capacity analysis determines a right-turn lane is necessary to meet the level-of-service criteria;
- at any signalized intersections where the right-turning volume is greater than 150 vph and where there is greater than 300 vphpl on the mainline;

EB US 30 to SB Orchard	SB Orchard to WB US 30
Mainline VPH = 1058	Mainline VPH = 1127
Right Turn VPH = 194	Right Turn VPH = 346
Right Turn Lane recommended	Right Turn Lane recommended
WB US 30 to NB Orchard	NB Orchard to EB US 30
Mainline VPH = 865	Mainline VPH = 943
Right Turn VPH = 455	Right Turn VPH = 624
Right Turn Lane recommended	Right Turn Lane recommended

36-3.04 Right-Turn Lanes

Section 36-3.02 provides design criteria for right-turn lane widths and lengths. Right-turn lanes may be designed with or without turning roadways depending on site conditions. Figures 36-3.H, 36-3.M, 36-3.N, and 36-3.O(1) illustrate typical designs for right-turn lanes. Because of potential conflicts with right-turning traffic, commercial entrances should not be allowed within the limits of the right-turn lane.

36-3.05 Dual Turn Lanes

36-3.05(a) Guidelines

At intersections with high-turning volumes, dual left- and/or right-turn lanes may be considered. However, multiple turn lanes may cause problems with right-of-way, lane alignment, for crossing pedestrians, and erratic movements for turning drivers. In place of dual right-turn lanes, the designer should consider providing a turning roadway with a design speed of 15 mph (25 km/h) or more and a free-flow, right-turn acceleration lane; see Section 36-2.03. Dual left- and/or right-turn lanes are generally considered where:

- there is insufficient space to provide the necessary length of a single turn lane because of restrictive site conditions (e.g., closely spaced intersections);
- based on a capacity analysis, the necessary time for a protected left-turn phase for a single lane becomes unattainable to meet the level-of-service criteria (average delay per vehicle); and/or
- more than 300 vph are projected to be turning.

Dual turn lanes should only be used with signalization providing a separate turning phase.

EB US 30 to NB Orchard VPH = 426

Dual Lefts may be required

WB US 30 to SB Orchard VPH = 441

Dual Lefts may be required

SB Orchard to EB US 30 VPH = 491

Dual Lefts may be required

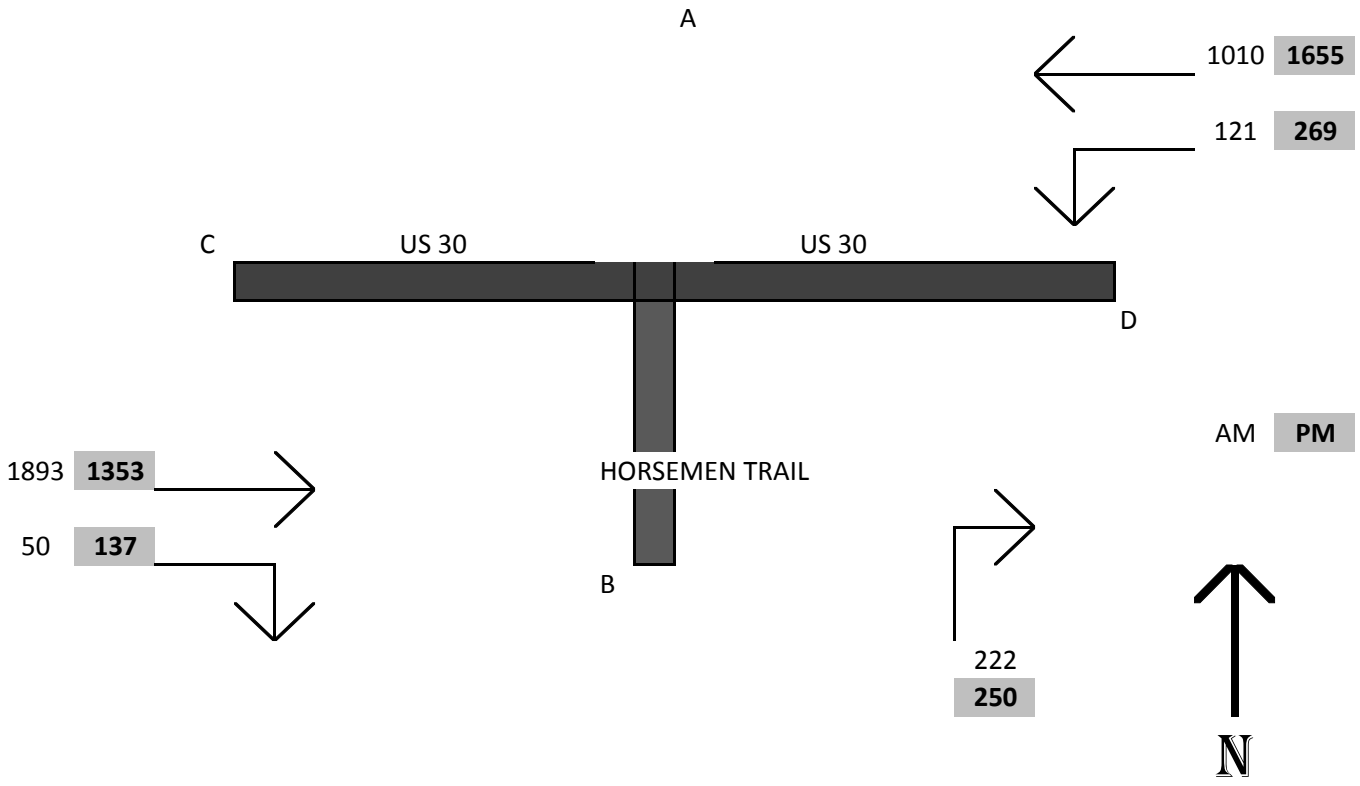
NB Orchard to WB US 30 VPH = 292

Dual Lefts not required

US 30
IL 47 to East of Albright Road
Kane & Kendall Counties
P-91-403-11

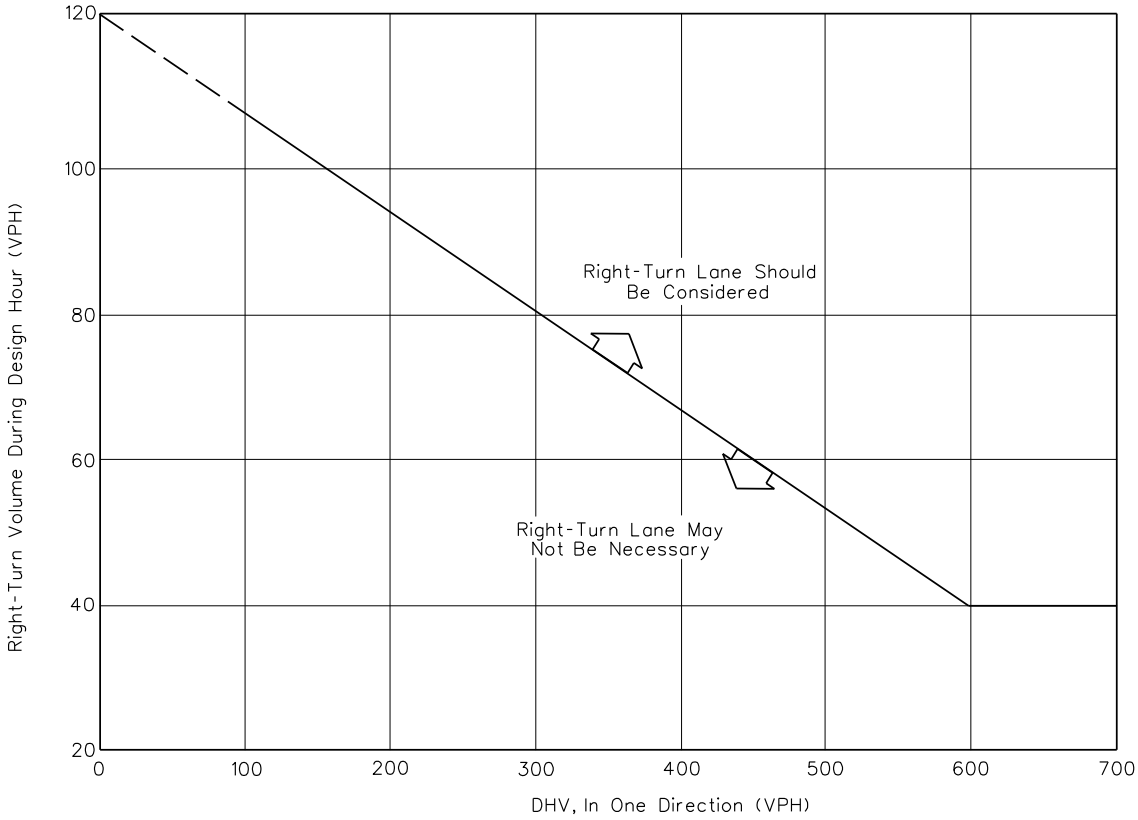
HORSEMEN TRAIL INTERSECTION

US 30 (BASELINE ROAD) CITY: MONTGOMERY DATE: 5/22/2012
KANE & KENDALL COUNTIES
P-91-403-11



TRAFFIC MOVEMENT	EXISTING DHV 2012		PERCENT TRUCKS		2040 GROWTH RATE	FUTURE DHV 2040	
	AM	PM	AM	PM		AM	PM
AB	0	0	0%	0%		0	0
AD	0	0	0%	0%		0	0
AC	0	0	0%	0%		0	0
BA	0	0	0%	0%	2.34%	0	0
BC	0	0	0%	0%	2.34%	0	0
BD	116	131	7%	2%	2.34%	222	250
CD	1341	959	4%	5%	1.24%	1893	1353
CA	0	0	0%	0%	1.24%	0	0
CB	35	97	22%	2%	1.24%	50	137
DC	736	1206	7%	4%	1.14%	1010	1655
DB	88	196	10%	2%	1.14%	121	269
DA	0	0	0%	0%	1.14%	0	0

TOTAL - A	0	0	0	0
TOTAL - B	239	423	393	655
TOTAL - C	2112	2261	2952	3145
TOTAL - D	2281	2491	3246	3528



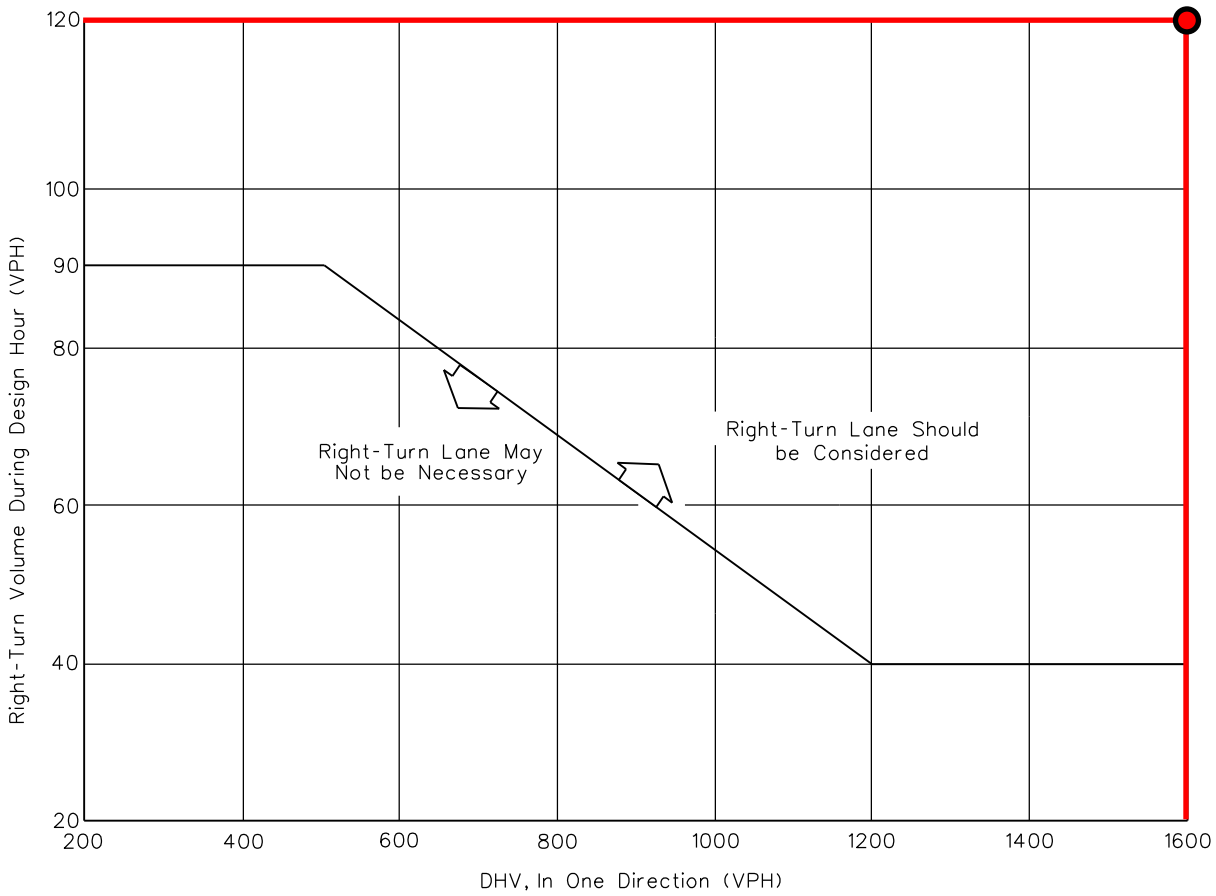
Note: For highways with a design speed below 50 mph (80 km/h), with a DHV in one direction of less than 300, and where right turns are greater than 40, an adjustment should be used. To read the vertical axis of the chart, subtract 20 from the actual number of right turns.

Figure not applicable. Horsemen Trail is right turn only.

GUIDELINES FOR RIGHT-TURN LANES AT UNSIGNALIZED INTERSECTIONS ON TWO-LANE HIGHWAYS

Figure 36-3.A

HARD COPIES UNCONTROLLED



Note: For speeds less than 50 mph (80 km/h), see Section 36-3.01(a).

Through DHV = 1893

Right Turn VPH = 137

Right Turn Lane recommended

GUIDELINES FOR RIGHT-TURN LANES AT UNSIGNALIZED INTERSECTION ON FOUR-LANE HIGHWAYS (Design Speed of 50 mph (80 km/h) or Greater)

Figure 36-3.B

36-3.04 Right-Turn Lanes

Section 36-3.02 provides design criteria for right-turn lane widths and lengths. Right-turn lanes may be designed with or without turning roadways depending on site conditions. Figures 36-3.H, 36-3.M, 36-3.N, and 36-3.O(1) illustrate typical designs for right-turn lanes. Because of potential conflicts with right-turning traffic, commercial entrances should not be allowed within the limits of the right-turn lane.

36-3.05 Dual Turn Lanes

36-3.05(a) Guidelines

At intersections with high-turning volumes, dual left- and/or right-turn lanes may be considered. However, multiple turn lanes may cause problems with right-of-way, lane alignment, for crossing pedestrians, and erratic movements for turning drivers. In place of dual right-turn lanes, the designer should consider providing a turning roadway with a design speed of 15 mph (25 km/h) or more and a free-flow, right-turn acceleration lane; see Section 36-2.03. Dual left- and/or right-turn lanes are generally considered where:

- there is insufficient space to provide the necessary length of a single turn lane because of restrictive site conditions (e.g., closely spaced intersections);
- based on a capacity analysis, the necessary time for a protected left-turn phase for a single lane becomes unattainable to meet the level-of-service criteria (average delay per vehicle); and/or
- more than 300 vph are projected to be turning.

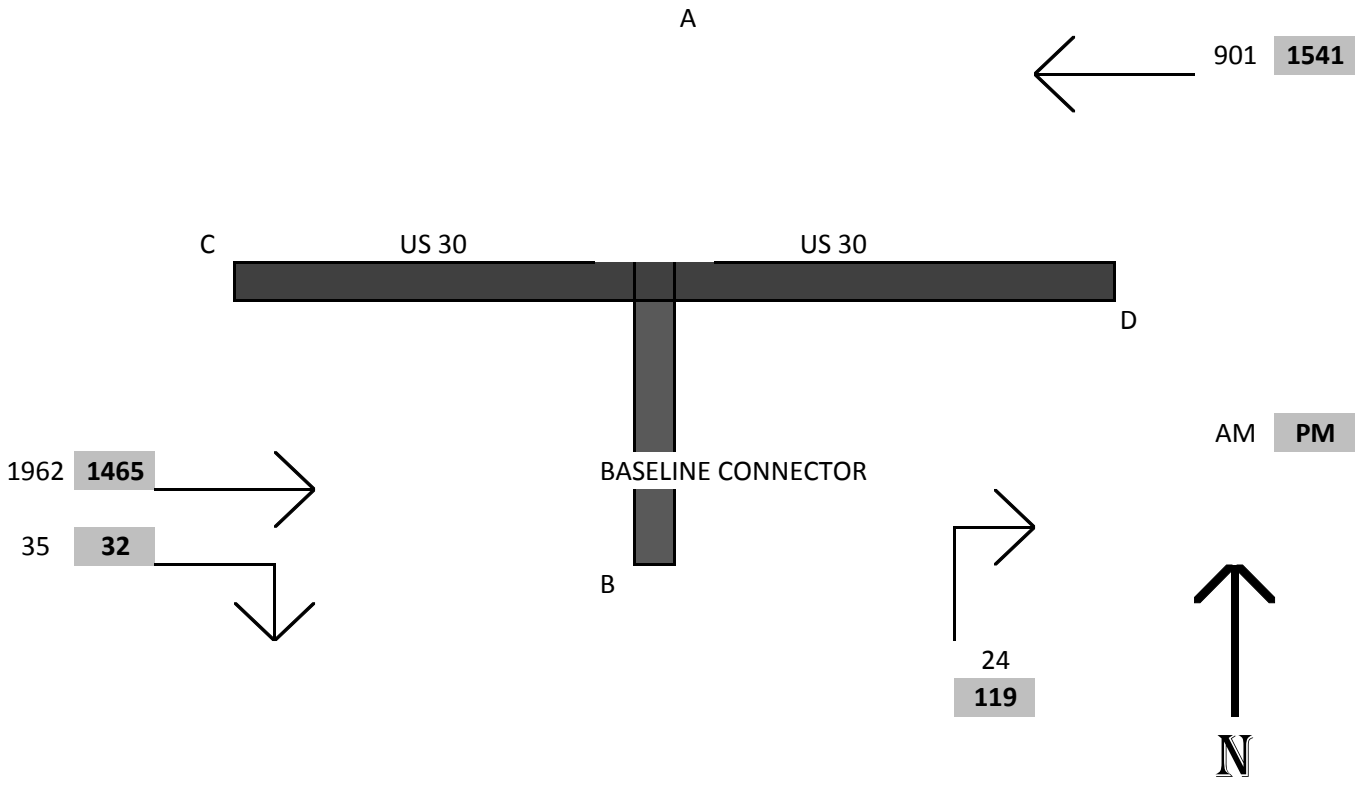
Dual turn lanes should only be used with signalization providing a separate turning phase.

Horsemen Trail intersection is non-signalized, so dual lefts not allowed.

US 30
IL 47 to East of Albright Road
Kane & Kendall Counties
P-91-403-11

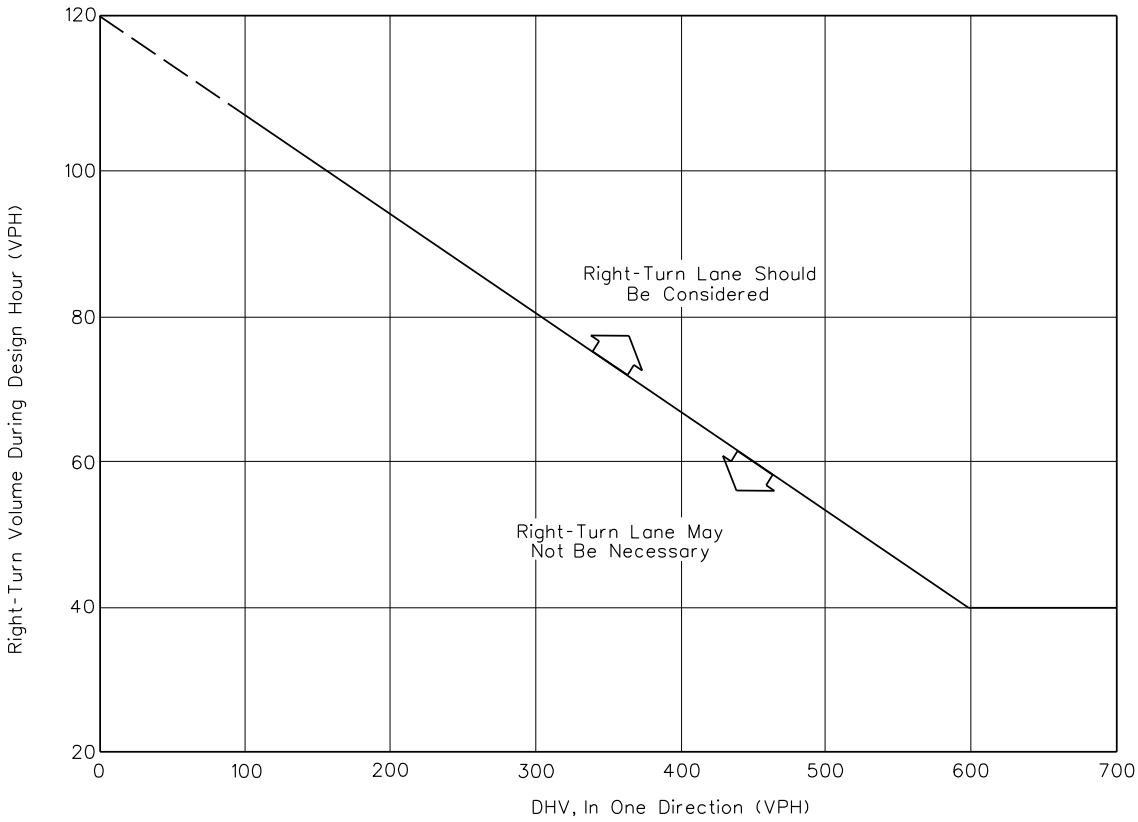
BASELINE CONNECTOR INTERSECTION

US 30 (BASELINE ROAD) CITY: MONTGOMERY DATE: 5/22/2012
KANE & KENDALL COUNTIES
P-91-403-11



TRAFFIC MOVEMENT	EXISTING DHV 2012		PERCENT TRUCKS		2040 GROWTH RATE	FUTURE DHV 2040	
	AM	PM	AM	PM		AM	PM
AB	0	0	0%	0%		0	0
AD	0	0	0%	0%		0	0
AC	0	0	0%	0%		0	0
BA	0	0	0%	0%	5.40%	0	0
BC	0	0	0%	0%	5.40%	0	0
BD	5	27	20%	4%	5.40%	24	119
CD	1429	1067	4%	5%	1.14%	1962	1465
CA	0	0	0%	0%	1.14%	0	0
CB	25	23	30%	4%	1.14%	35	32
DC	820	1402	7%	4%	0.34%	901	1541
DB	0	0	0%	0%	5.40%	0	0
DA	0	0	0%	0%	5.40%	0	0

TOTAL - A	0	0	0	0
TOTAL - B	31	50	58	151
TOTAL - C	2275	2493	2898	3038
TOTAL - D	2255	2497	2887	3125



Note: For highways with a design speed below 50 mph (80 km/h), with a DHV in one direction of less than 300, and where right turns are greater than 40, an adjustment should be used. To read the vertical axis of the chart, subtract 20 from the actual number of right turns.

Figure not applicable. Baseline Connector is right turn only.

GUIDELINES FOR RIGHT-TURN LANES AT UNSIGNALIZED INTERSECTIONS ON TWO-LANE HIGHWAYS

Figure 36-3.A

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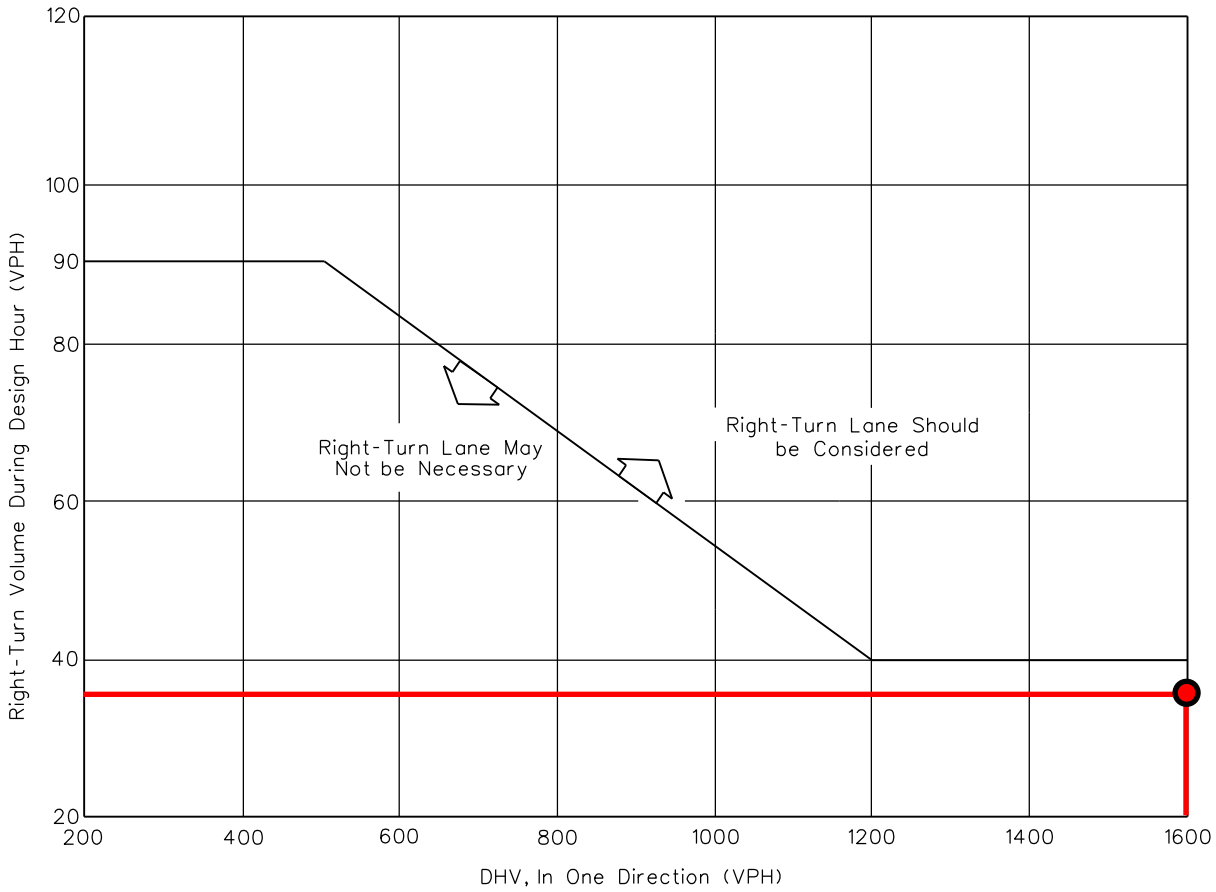

Note: For speeds less than 50 mph (80 km/h), see Section 36-3.01(a).

Through DHV = 1962

Right Turn VPH = 35

Right Turn Lane recommended

GUIDELINES FOR RIGHT-TURN LANES AT UNSIGNALIZED INTERSECTION ON FOUR-LANE HIGHWAYS
(Design Speed of 50 mph (80 km/h) or Greater)

Figure 36-3.B

36-3.04 Right-Turn Lanes

Section 36-3.02 provides design criteria for right-turn lane widths and lengths. Right-turn lanes may be designed with or without turning roadways depending on site conditions. Figures 36-3.H, 36-3.M, 36-3.N, and 36-3.O(1) illustrate typical designs for right-turn lanes. Because of potential conflicts with right-turning traffic, commercial entrances should not be allowed within the limits of the right-turn lane.

36-3.05 Dual Turn Lanes

36-3.05(a) Guidelines

At intersections with high-turning volumes, dual left- and/or right-turn lanes may be considered. However, multiple turn lanes may cause problems with right-of-way, lane alignment, for crossing pedestrians, and erratic movements for turning drivers. In place of dual right-turn lanes, the designer should consider providing a turning roadway with a design speed of 15 mph (25 km/h) or more and a free-flow, right-turn acceleration lane; see Section 36-2.03. Dual left- and/or right-turn lanes are generally considered where:

- there is insufficient space to provide the necessary length of a single turn lane because of restrictive site conditions (e.g., closely spaced intersections);
- based on a capacity analysis, the necessary time for a protected left-turn phase for a single lane becomes unattainable to meet the level-of-service criteria (average delay per vehicle); and/or
- more than 300 vph are projected to be turning.

Dual turn lanes should only be used with signalization providing a separate turning phase.

Baseline Connector intersection is non-signalized, so dual lefts not allowed.

S-5

Traffic Management Plan

Illinois Department of Transportation

Request for Exception to Compliance with the Work Zone Safety and Mobility Rule

Region No. 1 Route: FAP 349 (U.S. Route 30)

District No: 1 County: Kane & Kendall Program Yr.: UNFUNDED

Section No: TBD Project No.:

ADT: 27000 to 47000 DHV: 2,073 to 3,796 Design Speed Limit: 50 mph

The stated mobility goals of the Work Zone Safety and Mobility Policy are:

1. Delays caused by work zones should not exceed more than 5 minutes per mile of project length with a maximum of 30 minutes above the normal recurring traffic delay.
2. Queues caused by work zones should be no more than 1.5 miles beyond pre-existing queues.

Please check the appropriate box explaining the exception requested below:

☐ Significant Route Project (ADT under 35,000): based on current impact analysis and construction strategies, the stated goals are not expected to be met. See attachments for details. **(IDOT - District 1 Traffic Operations approval required)**

☐ Significant Route Project (ADT over 35,000): based on current impact analysis and construction strategies, the stated goals are not expected to be met. See attachments for details. **(IDOT and FHWA approval required)**

☒ Project is expected to meet the goals of the policy. **(IDOT – District 1 Traffic Operations approval is required)**

Attachments shall:

1. Provide a brief description of the project.
2. Include a brief discussion of strategies considered and the reasons these strategies will not be utilized, which could include a listing of pros/cons, cost, delays and queues.
3. Describe the recommended strategies which will be utilized identifying if possible the delays and queues. The mitigation measures to reduce the impacts on the project will be fully described

Submitted by District Representative: Rose Brown Date: 2-10-16

Approved by:

Bureau of Safety Engineering	Bureau of Design and Environment	Bureau of Local Roads and Streets	D1-Bureau of Traffic Operations
Date	Date	Date	5/12/16 Date

Federal Highway Administration: Dean G Mentzer Date: 7/14/16

Attachment for Request for Exception to Compliance with the Work Zone Safety and Mobility Rule:

Route:	FAP 349 (U.S. Route 30)
Section:	TBD
Location:	IL 47 to IL 31
County:	Kane / Kendall
Contract:	TBD
Letting:	TBD
Scope of work:	Widening & reconstruction of existing 2 lane facility to provide two lanes in each direction with raised median, turn lanes, and outside shoulders flanked by curb and gutter. Shared-use paths and sidewalks will also be provided.

Facility type:	Other Princiapl Arterial (Strategic Rural Arterial)
Area type:	Mixed - Agricultural/Developing Residential and Commercial
Project length:	4.4 miles
Project duration:	2 years estimated
Program cost:	$55.6 million
DA/TMP Approval	

Temporary Traffic Control Plan: Strategies utilized (Applicable methods are marked):
Existing number of lanes: One lane in each direction.

Number of lanes maintained during construction: One lane in each direction.

- ☒ Use of temporary widening
- ☐ Use of night work
- ☒ Permanent lane closures
- ☒ Temporary/ Restricted Lane closure
- ☐ Incentive/Disincentive clauses
- ☐ Railroad coordination
- ☐ Restrictions for special events
- ☐ Improving and signing alternate routes
- ☐ Detour
- ☒ Pedestrian accommodations
- ☐ Other (Specify)_____

Comments:

Transportation Operation Plan: Strategies utilized (Applicable methods are marked):

- ☒ Speed limit reduction
- ☒ Increased penalties for WZ violations
- ☒ Signal Coordination
- ☐ Turn restrictions
- ☒ Coord. w/adjacent construction sites
- ☐ Parking restrictions
- ☐ State Police Hirebacks
- ☒ Incidence response coordination
- ☐ Other (Specify): _____

Comments:

Public Information Plan: Strategies utilized (Applicable methods are marked):

- ☒ Media: Press Release/Web Page
- ☒ Changeable Message Signs
- ☐ Static Message Board
- ☒ Brochures/Flyers
- ☒ Other (Specify): Public Pre-Construction Meeting

Comments:

WORK ZONE TRANSPORTATION MANAGEMENT PLAN

Proposed Roadway Improvements
U.S. Route 30 (Baseline Road)
Section _____
Kane & Kendall County

9/28/2015

Prepared For:

Illinois Department of Transportation
Region 1, District 1
201 West Center Court
Schaumburg, Illinois 60196

Prepared By:

EFK Moen, LLC
303 Fountains Parkway, Suite 240
Fairview Heights, Illinois 62208
(618) 206-4250

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EXECUTIVE SUMMARY

The Illinois Department of Transportation (Department), District 1, proposes the reconstruction of U.S. Route 30 (Baseline Road), from 0.09 miles east of Illinois Route 47 to 0.39 miles west of Illinois Route 31, west of Montgomery, Illinois. Reconstruction of the existing two-lane roadway under this contract will result in a four-lane divided highway within the project limits. Construction staging for this project under the preferred traffic control plan (Reconstruction By Halves/Sides) will be carried out in four stages.

All Traffic Control Plan (TCP) strategies studied in this report provide 11' to 12' travel lanes with a minimum 1' shoulder and 3' minimum buffer distance between the edge-of-traffic lane and construction zone. At locations where edge drop-offs exceed the requirements of Section 55-2.04 of the latest IDOT BDE Manual (Chapter 55 – dated December 2011), temporary concrete barrier will be installed according to Safety Engineering Policy Memorandum 4-15.

It is recommended that the work zone speed limit be posted at 45 mph for all applicable TCP strategies discussed below, complying with Section 55-2.02 of the latest IDOT BDE Manual (Chapter 55 – dated December 2011). Temporary traffic signals will be required at three intersections that are currently signalized.

U.S. Route 30 will remain open to traffic during construction of this project. Full side road/side street intersection approach closures will be permitted for most intersections where motorist access to U.S. Route 30 can be achieved nearby. Partial side road/side street intersection approach closures will be required at Orchard Road, Blackberry Road, and the north leg of the Gordon Road intersection to maintain motorist access to U.S. Route 30 at all times.

Coordination with the public and local authorities is currently underway and will continue through construction. Traffic Management Plan (TMP) monitoring will be implemented to ensure that excessive motorist delays are mitigated, if necessary.

REQUEST FOR EXCEPTION TO COMPLIANCE

IDOT Significant Route Maps (dated November 2013) indicate that U.S. Route 30 is approaching significant route designation; resulting in the need for evaluation of potential work zone safety impacts according to IDOT Safety Engineering Policy 3-07 (dated October 2007). Traffic patterns for the preferred traffic control plan strategy have been modeled at the U.S. Route 30/Orchard Road intersection as part of this study. Data presented in the Traffic Control Plan Strategy #1 section of this report indicates that:

1. Delays beyond the normal recurring traffic delay at this intersection will not exceed 97.2 seconds (or 1.6 minutes) per vehicle.
2. Queues beyond the normal recurring traffic queues at this intersection will not exceed 0.186 miles (or 982 feet).

Therefore, a request for Exception to the Work Zone Safety and Mobility Rule will not be required for this project.

PROJECT DESCRIPTION

Background

U.S. Route 30 is functionally classified as an Other Principal Arterial and is a Class II state designated truck route. This portion of U.S. Route 30 serves as a route for motorists travelling between the communities of Sugar Grove and Montgomery. Recent residential and scattered commercial development between Illinois Route 47 and Illinois Route 31 has increased traffic congestion within the project corridor.

Project Description

The typical roadway cross-section along the project corridor consists of a rural two-lane roadway configuration; with exclusive left and/or right turn lanes at seven of the ten intersections along the project. Traffic signals currently exist at the Gordon Road, Griffin Drive, and Orchard Road intersections. Existing posted speed limits vary from 55 mph to 45 mph; with 55 mph being posted from Illinois Route 47 to Orchard Road. The total length of roadway to be improved under this contract is approximately 4.4 miles.

Location Map

Regional and local location maps may be found on Exhibit 1 – Location Maps located in the rear of this report.

Construction Staging/Phasing

The reconstruction of this portion of U.S. Route 30 under the preferred traffic control plan strategy will require 4 stages of construction. The following table briefly summarizes the construction staging for this project.

Construction Staging Summary		
Construction Stage	Construction Items	Traffic Impacts
Pre-Stage 1	Temporary Pavement (North Side of Roadway)	Daily Lane Shifts / Lane Closures During Non-Peak Hours
Stage 1	Eastbound Lanes, South Side of Structure, & Outer Lanes of Orchard Road South	Shift to the North (on Exist. / Temp. Pavement)
Stage 2	Westbound Lanes, North Side of Structure, & Outer Lanes of Orchard Road North/Gordon Road North	Shift to the South (on Prop. Eastbound Lanes)
Stage 3	Medians / Islands on U.S. 30, Orchard Road, & Gordon Road	Shift to Outer Lane in Each Direction (on Prop. Pavement)

Table 1 – Construction Staging Summary

More detailed information regarding these construction stages may be found under the Strategy #1 commentary in the Traffic Control Plan (TCP) Strategies section of this report.

Construction Schedule/Timeline

This project is currently not funded for Phase II design or Phase III construction. Therefore, a construction schedule/timeline has not been established at this time.

Interaction with Adjacent Projects

The reconstruction of U.S. Route 30 under this contract will require additional roadway improvements adjacent to this project. Intersection improvements will be needed at Illinois Route 47 and striping modifications will be required near Illinois Route 31 to accommodate this new four-lane section. The District Three Illinois Route 47 reconstruction project is currently funded for Phase II design, but not for Phase III construction. Any striping modifications near Illinois Route 31 are anticipated to be part of this project. Therefore, no construction schedule/timeline has been established for any of the adjacent improvements at this time.

EXISTING CONDITIONS

Existing Traffic Data

Current traffic data obtained for U.S. Route 30 indicates that moderate truck traffic utilizes this two-lane route. The following table summarizes the existing traffic data recently acquired for a traffic study along the project corridor (refer to Exhibit 2 – Traffic Count Map).

Existing U.S. Route 30 (Baseline Road) Traffic Data					
2011 Traffic Data Near IL Route 47 (from 2011 traffic study)			2011 Traffic Data Near IL Route 31 (from 2011 traffic study)		
PV =	10,564	93.49%	PV =	23,075	92.67%
SU =	200	1.77%	SU =	1,036	4.16%
MU =	536	4.74%	MU =	789	3.17%
ADT	**11,300**	**100%**	**ADT**	**24,900**	**100%**

Table 2 – Existing U.S. Route 30 Traffic Data

Crash Data

Crash data was obtained from the IDOT District 1 – Division of Traffic Safety for this project between the years of 2008 and 2012. Analysis of the data obtained and presented in the project report for this project indicates that a majority of the 375 crashes were rear end type collisions that occurred in daylight or clear weather on dry surface conditions (refer to Table 3 – U.S. Route 30 Crash Summary 2008 - 2012).

U.S. Route 30 Crash Summary 2008 – 2012				
Collision Type, Weather Condition, Surface Condition, or Lighting Condition	Number of Segment Crashes	Number of Intersection Crashes	Total Number of Crashes	% of Grand Total
Collision Type				
Angle	3	7	10	2.67%
Animal	5	1	6	1.60%
Fixed Object	18	13	31	8.27%
Head On	15	5	20	5.33%
Other Non-Collision	2	1	3	0.80%
Other Object	0	1	1	0.27%
Overturned	4	0	4	1.07%
Parked Motor Vehicle	2	1	3	0.80%
Pedestrian	0	0	0	0.00%
Rear End	45	160	205	54.67%
Sideswipe - Opposite Direction	5	1	6	1.60%
Sideswipe - Same Direction	1	11	12	3.20%
Turning	6	68	74	19.73%
Collision Type Totals	**106**	**269**	**375**	**100%**
Weather Condition				
Clear	62	227	289	77.07%
Fog/Smoke/Haze	1	2	3	0.80%
Other	0	1	1	0.27%
Rain	7	27	34	9.07%
Severe Cross Wind	1	0	1	0.27%
Sleet/Hail	0	2	2	0.53%
Snow	34	10	44	11.73%
Unknown	1	0	1	0.27%
Weather Condition Totals	**106**	**269**	**375**	**100%**
Surface Condition				
Dry	53	199	252	67.20%
Ice	6	9	15	4.00%
Sand/Mud/Dirt	0	0	0	0.00%
Snow/Slush	34	9	43	11.47%
Unknown	1	2	3	0.80%
Wet	12	50	62	16.53%
Surface Condition Totals	**106**	**269**	**375**	**100%**
Lighting Condition				
Darkness	37	36	73	19.47%
Darkness & Lighted Road	6	35	41	10.93%
Dawn	1	6	7	1.87%
Daylight	56	184	240	64.00%
Dusk	6	8	14	3.73%
Lighting Condition Totals	**106**	**269**	**375**	**100%**

Table 3 – U.S. Route 30 Crash Summary 2008 - 2012

Additional tables summarizing both the crashes and crash severities by year and location may be found in Exhibit 3 – Crash Data By Year, Exhibit 4 – Crash Data By Location, and Exhibit 5 – Crash Severity Data By Year & Location.

Local Community/Business Concerns

IDOT Context Sensitive Solutions (CSS) procedures have been utilized to gather information from residents and business owners along the project corridor. Information gathered through the CSS process allows designers to examine current transportation deficiencies and determine anticipated future transportation needs of the project corridor. All comments received from residents and business owners via this process have been incorporated into the project development report.

Traffic Growth Data

Projected traffic data for U.S. Route 30 indicates that a 1.81% increase in traffic near Illinois Route 47 and a 0.01% increase in traffic near Illinois Route 31 are expected by the year 2040. The following table summarizes this projected traffic data recently determined for a traffic study along the project corridor (refer to Exhibit 2 – Traffic Count Map). It should be noted that all traffic control plan strategies contained herein have been based on construction happening prior to or in the year 2019. Should construction push beyond this timeframe, it is recommended that this work zone transportation management plan be reviewed for applicability.

Projected U.S. Route 30 (Baseline Road) Traffic Data						
2040 Traffic Data Near IL Route 47 (from 2011 traffic study)				2040 Traffic Data Near IL Route 31 (from 2011 traffic study)		
PV =	17,761	93.48%		PV =	23,167	92.67%
SU =	337	1.77%		SU =	1,041	4.16%
MU =	902	4.75%		MU =	792	3.17%
ADT	**19,000**	**100%**		**ADT**	**25,000**	**100%**

Table 4 – Projected U.S. Route 30 Traffic Data

TRAFFIC CONTROL PLAN (TCP) STRATEGIES

This portion of the report studies the management of traffic during the reconstruction of U.S. Route 30 within the limits noted above. The following traffic control plan strategies were studied (starting with the safer scenarios for motorists and construction workers):

TCP Strategy #1: Reconstruction By Halves (Sides)
TCP Strategy #2: Parallel/Adjacent Reconstruction

All TCP strategies studied in this report provide 11’ to 12’ travel lanes with a minimum 1’ shoulder and 3’ minimum buffer distance between the edge-of-traffic lane and

construction zone. At locations where edge drop-offs exceed the requirements of Section 55-2.04 of the latest IDOT BDE Manual (Chapter 55 – dated December 2011), temporary concrete barrier will be installed according to Safety Engineering Policy Memorandum 4-15.

It is recommended that the work zone speed limit be posted at 45 mph for all applicable TCP strategies discussed below, complying with Section 55-2.02 of the latest IDOT BDE Manual (Chapter 55 – dated December 2011). Temporary traffic signals will be required at 3 intersections that are currently signalized.

Pavement designs were developed on each end of the project according to Section 55-2.10 of the latest IDOT BDE Manual (Chapter 55 – dated December 2011) to roughly determine temporary paving costs for any potential traffic shifts. The estimated thicknesses of hot-mix asphalt pavement required to adequately carry the 2019 design traffic loading near Illinois Route 47 and Illinois Route 31 are 7¾“ and 8¼”, respectively (refer to Exhibit 6 – Temporary Pavement Design Near Illinois Route 47 and Exhibit 7 – Temporary Pavement Design Near Illinois Route 31). For this report, a thickness of 8” was used to determine the chosen temporary pavement structure (refer to Exhibit 8 – Temporary Pavement Structure Composition).

TCP Strategy #1: Reconstruction By Halves (Sides)

This strategy would utilize standard and special traffic control methods to shift traffic away from four distinct stage construction zones (refer to Exhibit 9 – TCP Strategy #1 Preliminary Stage 1 Construction Sketches, Exhibit 10 – TCP Strategy #1 Preliminary Stage 2 Construction Sketches, & Exhibit 11 – TCP Strategy #1 Preliminary Stage 3 Construction Sketches). Pre-Stage 1 construction would require daily lane shifts and/or lane closures during non-peak hours while temporary pavement is placed on the north side of the roadway. Stage 1 construction of the proposed roadway improvements would require traffic to shift north onto the existing westbound lane, temporary pavement, and north side of the existing structure while the proposed eastbound lanes, adjacent improvements, and south side of the proposed structure are being constructed. Stage 2 construction of the proposed roadway improvements would require traffic to be shifted onto the proposed eastbound lanes and south side of the proposed structure while the proposed westbound lanes, adjacent improvements, and north side of the proposed structure are being constructed. Construction of the median area in Stage 3 would require traffic to shift onto the outer lanes of the proposed four-lane divided roadway. It should be noted that localized lane shifts near the proposed structure will be required in all three stages to accommodate bridge construction.

Modifications to existing turning movements would be required during each construction stage; requiring the use of temporary traffic signals at Gordon Road, Griffin Drive, and Orchard Road. It is highly recommended that the proposed outer lanes of Orchard Road be constructed at the end of Stage 1 construction for Orchard Road south and at the beginning of Stage 2 construction for Orchard Road north (refer to Exhibit #12 – TCP Strategy #1 Preliminary Orchard Road Stage Construction Sketches). Inner lane and median construction along Orchard Road at the beginning of Stage 3 construction is preferred. Construction of the proposed intersection approaches at the northern portion

of Gordon Road will also need to be constructed similar to Orchard Road to provide uninterrupted access to approximately 917 residences. Construction of the proposed intersection approaches at Blackberry Road will need to be constructed one-half at a time to provide uninterrupted access to approximately 40 residences. Intersection approach closures will be permitted at all other intersections along the project corridor; with a maximum of one north approach and one south approach closure being implemented at any point during construction. Construction of the proposed structure at approximate Sta. 1194+46 will largely occur during Stage 1 and Stage 2 construction under this strategy (refer to Exhibit 13 – TCP Strategy #1 Preliminary Bridge Stage Construction Sketches). Coordination with roadway construction operations at the Orchard Road intersection will be required.

It should be noted that crossovers would need to be implemented at each end of the project corridor for this strategy; resulting in the inner lanes and median at each end of the project being constructed during Stage 3 construction. The implementation cost of TCP Strategy #1, including any required roadside safety devices, is estimated at $4,600,000 (refer to Exhibit 14 – TCP Strategy #1 Implementation Cost Estimate).

Traffic patterns at the U.S. Route 30/Orchard Road intersection were modeled for this strategy utilizing Synchro Studio 8 traffic simulation software. Several lane combinations on U.S. Route 30 were modeled to optimize traffic flow, reduce delays, and minimize traffic congestion in or near the construction zone. The following table summarizes the delays and levels of service (LOS) that resulted when modeling the traffic patterns for all 3 construction stages under this strategy. Please note that actual delays and LOS at this intersection may vary; depending on final plan stage construction layout/design and how extensively motorists carpool or utilize alternate routes. Detailed information regarding lane configurations and queue analysis results may be found on Exhibits #19 - #28.

U.S. Route 30/Orchard Road Intersection Queue Analysis Summary								
Mvmt.	Existing		Stage 1		Stage 2		Stage 3	
	Delay (s/veh)	LOS	Delay (s/veh)	LOS	Delay (s/veh)	LOS	Delay (s/veh)	LOS
AM Peak Period								
EB Total	35.8	D	71.2	E	51.7	D	45.3	D
WB Total	22.3	C	42.8	D	48.3	D	41.8	D
NB Total	34.8	C	83.6	F	108.2	F	81.8	F
SB Total	29.1	C	67.5	E	81.2	F	72.0	E
INT Total	**31.6**	**C**	**67.9**	**E**	**70.8**	**E**	**59.0**	**E**
PM Peak Period								
EB Total	45.0	D	61.6	E	49.0	D	40.8	D
WB Total	43.8	D	97.9	F	108.5	F	36.5	D
NB Total	37.9	D	111.6	F	128.0	F	107.9	F
SB Total	53.6	D	140.3	F	150.8	F	88.0	F
INT Total	**45.2**	**D**	**104.8**	**F**	**113.3**	**F**	**68.1**	**E**

Table 5 – U.S. Route 30/Orchard Road Intersection Queue Analysis Summary

This strategy would affect traffic for approximately 30 months. When the route is opened to four-lane, two-way traffic, the project will be virtually complete except for items of work requiring the use of standard traffic control for final paving and/or roadside operations.

TCP Strategy #2: Parallel/Adjacent Reconstruction

This strategy would utilize standard and special traffic control methods to shift traffic away from 2 distinct stage construction zones (refer to Exhibit 15 – TCP Strategy #2 Preliminary Stage 1 Construction Sketches & Exhibit 16 – TCP Strategy #2 Preliminary Stage 2 Construction Sketches). Stage 1 construction of the proposed roadway improvements under this strategy would allow traffic to remain on the existing 2-lane roadway while the outer lanes of the proposed 4-lane divided roadway and adjacent improvements are being constructed. Stage 2 construction of the proposed roadway improvements would require traffic to be shifted onto the outer lanes of the proposed 4-lane divided roadway while the inner lanes and median are being constructed.

Modifications to existing turning movements would be required during each construction stage; requiring the use of temporary traffic signals at Gordon Road, Griffin Drive, and Orchard Road. It is recommended that the proposed outer lanes of Orchard Road and Gordon Road be constructed at the end of Stage 1 construction to avoid additional temporary traffic signal modifications at the U.S. Route 30/Orchard Road intersection (refer to Exhibit #17 – TCP Strategy #2 Preliminary Orchard Road Stage Construction Sketches). Inner lane and median construction along Orchard Road at the beginning of Stage 2 construction is preferred. Construction of the proposed structure at approximate Sta. 1194+46 will need to precede construction of the roadway improvements under this strategy.

It should be noted that this strategy would affect traffic for approximately 30 months and that several locations along the project corridor would require monitoring for flooding and/or roadway siltation due to a raise in vertical profile. The implementation cost of TCP Strategy #2, including any required roadside safety devices, is estimated at $4,300,000 (refer to Exhibit 18 – TCP Strategy #2 Implementation Cost Estimate). Due to an increased potential for accidents due to flooded and/or silted roadway conditions, this strategy is not recommended.

Preferred Traffic Control Plan Strategy

Based on cost estimates for the traffic control plan strategies described above, it appears that the cost for TCP Strategy #2 – Parallel/Adjacent Reconstruction is slightly more economical than TCP Strategy #1 – Reconstruction By Halves (Sides) (refer to Table 6 – TCP Strategy Implementation Cost Estimate Summary below). However, TCP Strategy #1 will allow motorists to more safely maintain their typical travel patterns during construction; resulting in lower roadway maintenance costs for Kane County, Kendall County, and the Village of Montgomery. Therefore, the preferred traffic control plan strategy for this project is TCP Strategy #1 – Reconstruction By Halves (Sides).

TCP Strategy Implementation Cost Estimate Summary	
Traffic Control Plan Strategy	Estimated Cost
TCP Strategy #1 – Reconstruction By Halves (Sides)	$4,600,000
TCP Strategy #2 – Parallel/Adjacent Reconstruction	$4,300,000

Table 6 – TCP Strategy Implementation Cost Estimate Summary

Preferred Traffic Control Plan Sheets

Traffic control plans for TCP Strategy #1 will be generated during Phase II design of this project.

PUBLIC INFORMATION PLAN (PIP)

Public Awareness Strategy

Public meetings are being utilized in the development of this project to inform the public of the proposed roadway improvements. Local residents and business owners will get the opportunity to determine how construction will affect their daily commute and access to their residences/businesses. A public pre-construction meeting and an IDOT project website are recommended due to the significant traffic volume along the project corridor. It is also recommended that press releases be sent to the media and major employers along the project corridor be regularly notified so that motorists, employees, and suppliers can consider alternate routes, if necessary.

Motorist Awareness Strategy

Advanced signage will be implemented near the project corridor and on all adjacent major routes to inform motorists of construction activities. Changeable message signs will be utilized near the project corridor to inform motorists of any unexpected conditions.

Alternative Transportation Modes

No alternative transportation modes are available near the project site.

TRANSPORTATION OPERATIONS PLAN (TOP)

Work Zone Safety Management

Motorists will be highly encouraged to work from home, carpool, or seek alternate routes of travel in order to mitigate congestion and minimize work zone incidents. It is also highly recommended that all the temporary traffic signals be properly timed or interconnected along U.S. Route 30 during construction; requiring coordination with Kane County, Kendall County, and the Department.

Incident Management

An incident management plan will need to be developed and approved by the Department prior to construction of the proposed improvements along U.S. Route 30. This IMP must identify any team members, their roles, and communication structure. It must also outline a traffic routing plan that can be promptly utilized in the event of a work zone incident. Team members should include at least one representative with the Contractor, the Department, and law enforcement/emergency personnel with Kane and/or Kendall Counties.

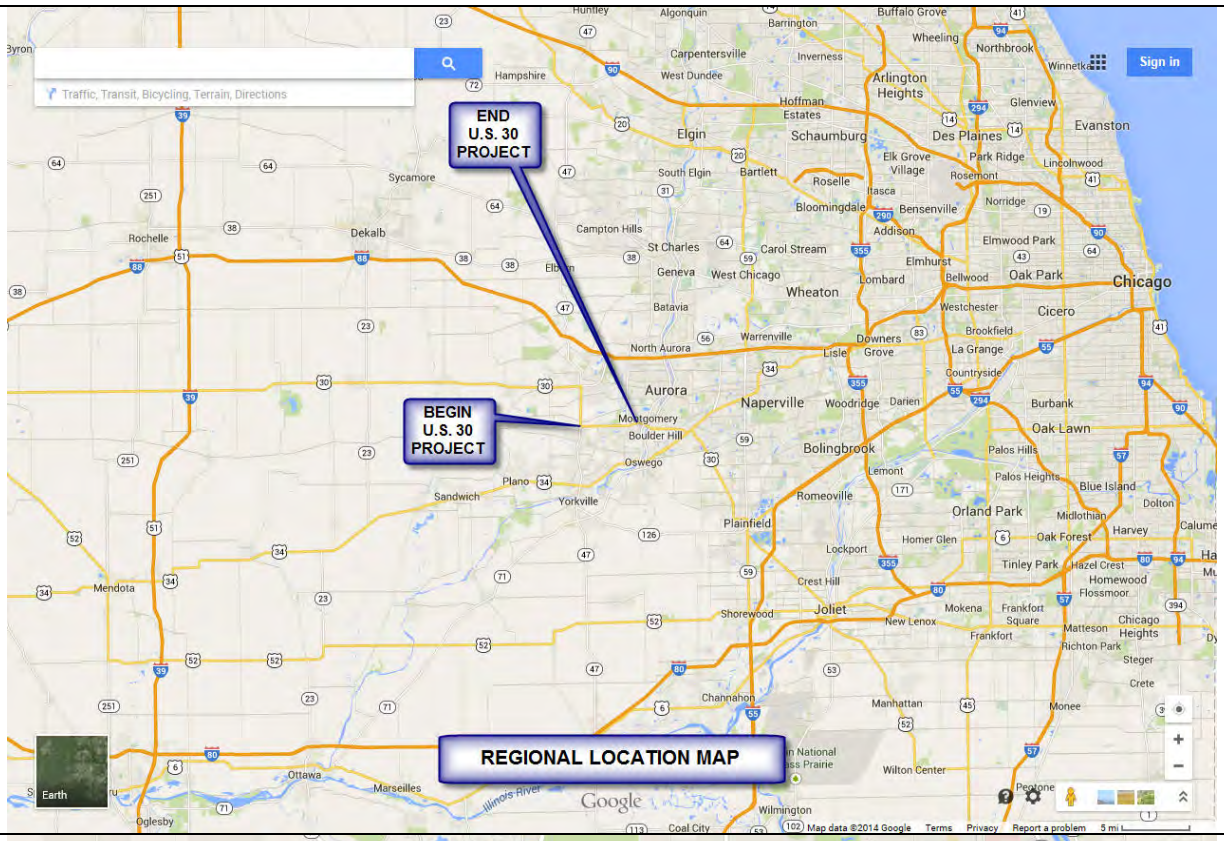
TRAFFIC MANAGEMENT PLAN (TMP) MONITORING

Monitoring Plan

Traffic flow during construction will be monitored by the Resident Engineer and the Department for compliance with the results/recommendations of this study and the project plans. Any modifications made to increase the effectiveness of the recommended/implemented traffic control plan strategy must be approved by the Resident Engineer and the Department. The Resident Engineer will be responsible for developing a communication structure between all entities to promptly address any inadequacies and implement any approved modifications.

Contingency Plan

No contingency plan is being proposed at this time.



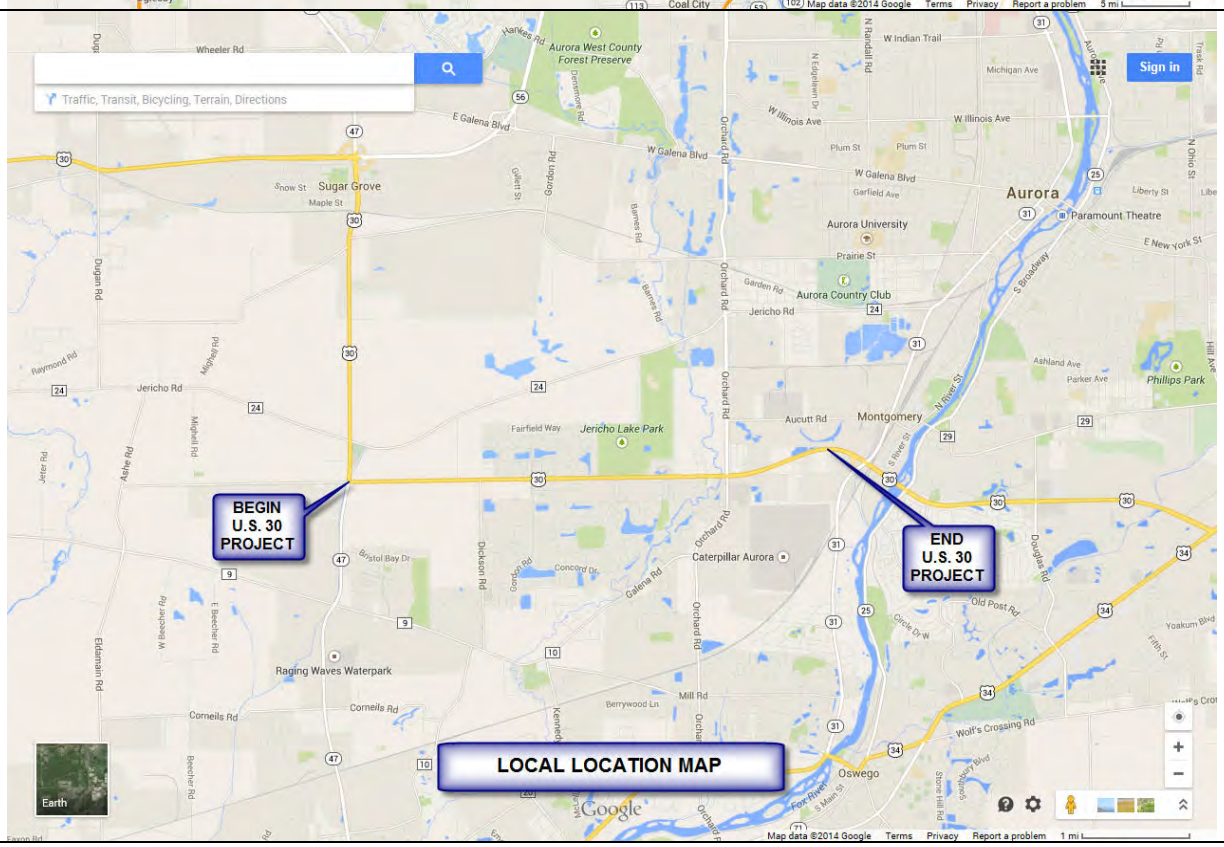


Exhibit 1 – Location Maps

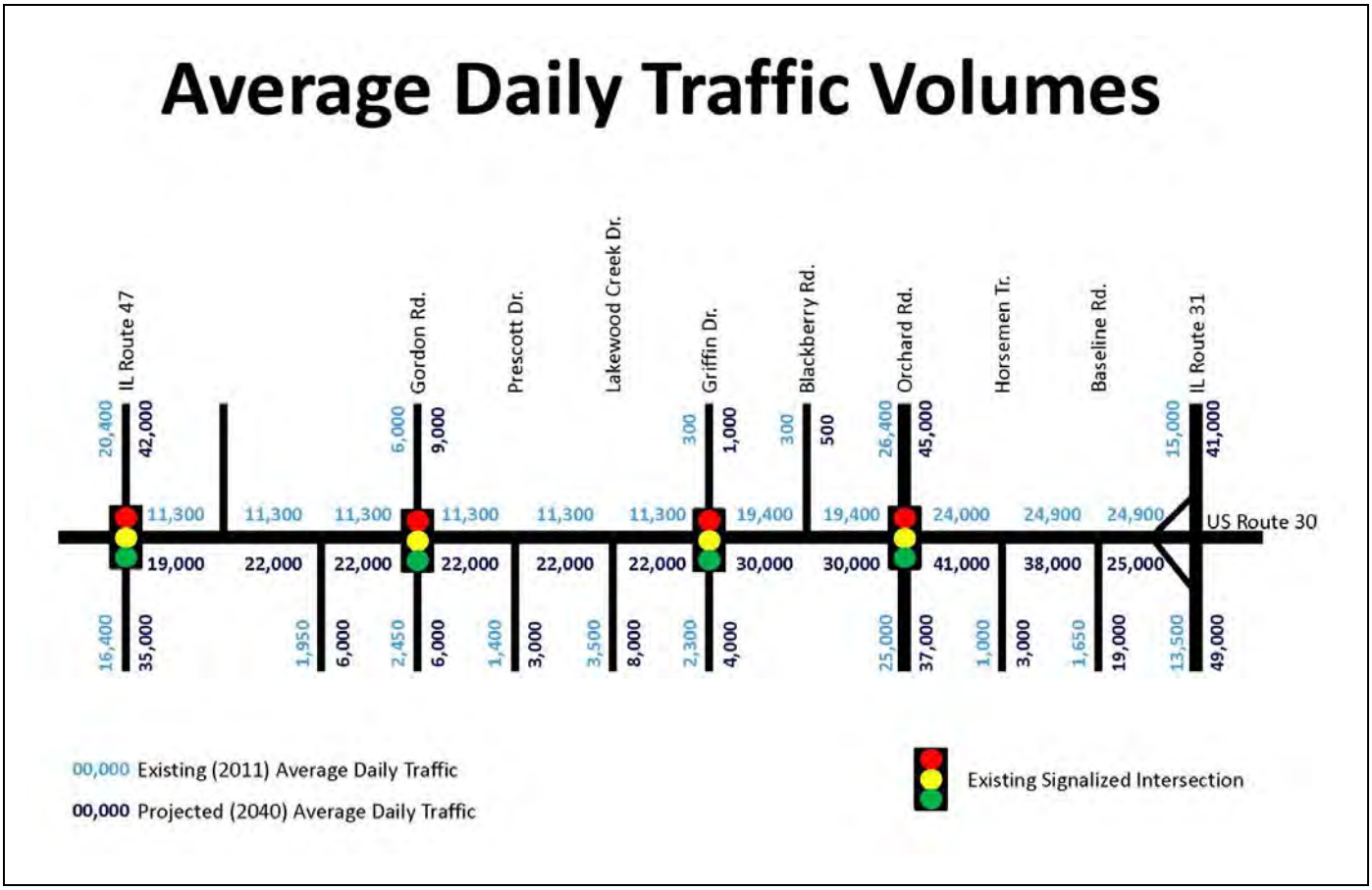


Exhibit 2 – Traffic Count Map

COLLISION TYPE, WEATHER COND., SURFACE COND., OR LIGHTING COND.	SEGMENT CRASHES*						INTERSECTION CRASHES*						TOTAL CRASHES	% CRASHES
	2008	2009	2010	2011	2012	TOTAL	2008	2009	2010	2011	2012	TOTAL		
COLLISION TYPE														
Angle	2	0	1	0	0	3	3	0	1	3	0	7	10	2.67%
Animal	2	1	0	1	1	5	0	0	0	0	1	1	6	1.60%
Fixed Object	3	9	2	1	3	18	2	2	3	2	4	13	31	8.27%
Head On	7	3	2	0	3	15	0	3	0	1	1	5	20	5.33%
Other Non-Collision	0	0	1	1	0	2	0	0	1	0	0	1	3	0.80%
Other Object	0	0	0	0	0	0	0	0	0	0	1	1	1	0.27%
Overturned	2	0	0	1	1	4	0	0	0	0	0	0	4	1.07%
Parked Motor Vehicle	0	2	0	0	0	2	0	0	0	0	1	1	3	0.80%
Pedestrian	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00%
Rear End	7	4	4	14	16	45	46	24	24	30	36	160	205	54.67%
Sideswipe - Opposite Direction	3	2	0	0	0	5	0	0	0	0	1	1	6	1.60%
Sideswipe - Same Direction	0	0	0	0	1	1	3	2	1	1	4	11	12	3.20%
Turning	1	0	2	0	3	6	18	11	11	11	17	68	74	19.73%
TOTALS	27	21	12	18	28	106	72	42	41	48	66	269	375	100%
	106						269							
WEATHER CONDITION														
Clear	9	7	8	18	20	62	59	36	34	37	61	227	289	77.07%
Fog/Smoke/Haze	0	0	0	0	1	1	0	1	1	0	0	2	3	0.80%
Other	0	0	0	0	0	0	1	0	0	0	0	1	1	0.27%
Rain	2	3	0	0	2	7	9	2	4	8	4	27	34	9.07%
Severe Cross Wind	1	0	0	0	0	1	0	0	0	0	0	0	1	0.27%
Sleet/Hail	-	-	-	-	-	0	0	0	0	2	0	2	2	0.53%
Snow	15	10	4	0	5	34	3	3	2	1	1	10	44	11.73%
Unknown	0	1	0	0	0	1	0	0	0	0	0	0	1	0.27%
TOTALS	27	21	12	18	28	106	72	42	41	48	66	269	375	100%
	106						269							
SURFACE CONDITION														
Dry	7	4	7	16	19	53	51	32	27	33	56	199	252	67.20%
Ice	2	2	0	0	2	6	6	0	0	3	0	9	15	4.00%
Sand/Mud/Dirt	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00%
Snow/Slush	15	10	5	0	4	34	1	3	3	1	1	9	43	11.47%
Unknown	0	1	0	0	0	1	0	0	2	0	0	2	3	0.80%
Wet	3	4	0	2	3	12	14	7	9	11	9	50	62	16.53%
TOTALS	27	21	12	18	28	106	72	42	41	48	66	269	375	100%
	106						269							
LIGHTING CONDITION														
Darkness	13	9	4	5	6	37	10	5	6	5	10	36	73	19.47%
Darkness, Lighted road	3	0	0	2	1	6	11	6	3	4	11	35	41	10.93%
Dawn	0	0	0	1	0	1	0	2	2	1	1	6	7	1.87%
Daylight	10	11	7	9	19	56	50	28	28	38	40	184	240	64.00%
Dusk	1	1	1	1	2	6	1	1	2	0	4	8	14	3.73%
TOTALS	27	21	12	18	28	106	72	42	41	48	66	269	375	100%
	106						269							

*NOTE:

It should be noted that effective January 1, 2009; the Illinois Vehicle Code was amended. House Bill 5907/Public Act 95-0754 (625 ILCS 5/7-201; 7-204; 7-212; 11-406; and 11-406.1 new) amended the way crashes were reported and the rules for completing and processing police crash reports. There is no way to predict the magnitude of the decline in total crashes (if any) caused by the law changes by type of roadway, police jurisdiction, or any other imaginable variable. There is also no way to retroactively convert crash data prior to crashes reported in 2009, therefore a comparison of crashes occurring prior to and after January 1, 2009 are not directly comparable. In addition, it appears the geometrics of the U.S. 30 at Galena Road/Horseman Trail/Baseline Road Intersection changed during the study years.

Exhibit 3 – Crash Data By Year

COLLISION TYPE, WEATHER COND., SURFACE COND., OR LIGHTING COND.	SEGMENT CRASHES											INTERSECTION CRASHES										TOTAL CRASHES	% CRASHES
	IL-47 → BERTRAM	BERTRAM → DICKSON	DICKSON → GORDON	GORDON → PRESCOTT	PRESCOTT → LAKEWOOD CREEK	LAKEWOOD CREEK → GRIFFIN	GRIFFIN → BLACKBERRY	BLACKBERRY → ORCHARD	ORCHARD → HORSEMAN TRAIL/ BASELINE	HORSEMAN TRAIL/ BASELINE → IL-31	TOTAL	BERTRAM ROAD	DICKSON ROAD	GORDON ROAD	PRESCOTT DRIVE	LAKEWOOD CREEK DRIVE	GRIFFIN DRIVE	BLACKBERRY ROAD	ORCHARD DRIVE	HORSEMAN TRAIL/ BASELINE ROAD	TOTAL		
COLLISION TYPE																							
Angle	0	-	-	-	1	0	0	0	0	2	3	1	0	0	0	0	0	0	6	0	7	10	2.67%
Animal	2	-	-	-	0	1	0	0	0	2	5	0	0	0	0	0	0	1	0	0	1	6	1.60%
Fixed Object	1	-	-	-	0	0	2	0	1	14	18	6	1	2	0	0	0	0	2	2	13	31	8.27%
Head On	1	-	-	-	0	2	0	0	0	12	15	0	0	0	1	1	0	0	2	1	5	20	5.33%
Other Non-Collision	0	-	-	-	0	0	0	0	1	1	2	0	0	0	0	0	0	0	1	0	1	3	0.80%
Other Object	0	-	-	-	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	1	1	0.27%
Overturned	1	-	-	-	0	0	0	0	0	3	4	0	0	0	0	0	0	0	0	0	0	4	1.07%
Parked Motor Vehicle	0	-	-	-	0	0	0	0	0	2	2	0	0	0	0	0	0	0	1	0	1	3	0.80%
Pedestrian	0	-	-	-	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00%
Rear End	4	-	-	-	0	0	2	4	9	26	45	0	6	6	0	5	12	4	106	21	160	205	54.67%
Sideswipe - Opposite Direction	0	-	-	-	0	0	0	0	0	5	5	0	0	0	0	0	0	0	1	0	1	6	1.60%
Sideswipe - Same Direction	0	-	-	-	0	0	0	0	1	0	1	0	0	0	0	0	0	0	9	2	11	12	3.20%
Turning	0	-	-	-	0	0	0	0	0	6	6	5	3	3	2	1	2	0	47	5	68	74	19.73%
TOTALS	9	0	0	0	1	3	4	4	12	73	106	12	10	11	3	8	14	5	175	31	269	375	100%
	106											269											
WEATHER CONDITION																							
Clear	8	-	-	-	0	2	2	4	10	36	62	10	8	8	3	7	10	3	150	28	227	289	77.07%
Fog/Smoke/Haze	0	-	-	-	0	0	0	0	0	1	1	0	0	1	0	0	0	0	1	0	2	3	0.80%
Other	0	-	-	-	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1	1	0.27%
Rain	0	-	-	-	0	0	0	0	1	6	7	1	1	2	0	0	2	2	17	2	27	34	9.07%
Severe Cross Wind	0	-	-	-	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	1	0.27%
Sleet/Hail	-	-	-	-	-	-	-	-	-	-	0	1	0	0	0	0	1	0	0	0	2	2	0.53%
Snow	1	-	-	-	1	1	2	0	1	28	34	0	1	0	0	1	1	0	6	1	10	44	11.73%
Unknown	0	-	-	-	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	1	0.27%
TOTALS	9	0	0	0	1	3	4	4	12	73	106	12	10	11	3	8	14	5	175	31	269	375	100%
	106											269											
SURFACE CONDITION																							
Dry	6	-	-	-	0	2	2	3	7	33	53	8	7	7	3	6	9	3	130	26	199	252	67.20%
Ice	1	-	-	-	0	0	0	0	1	4	6	1	0	0	0	0	3	0	5	0	9	15	4.00%
Sand/Mud/Dirt	0	-	-	-	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00%
Snow/Slush	2	-	-	-	1	1	2	0	0	28	34	0	1	0	0	1	1	0	5	1	9	43	11.47%
Unknown	0	-	-	-	0	0	0	0	0	1	1	0	0	0	0	0	0	0	2	0	2	3	0.80%
Wet	0	-	-	-	0	0	0	1	4	7	12	3	2	4	0	1	1	2	33	4	50	62	16.53%
TOTALS	9	0	0	0	1	3	4	4	12	73	106	12	10	11	3	8	14	5	175	31	269	375	100%
	106											269											
LIGHTING CONDITION																							
Darkness	4	-	-	-	0	2	1	0	2	28	37	7	2	2	0	1	4	2	12	6	36	73	19.47%
Darkness, Lighted road	0	-	-	-	0	0	0	0	3	3	6	0	0	0	2	2	3	0	28	0	35	41	10.93%
Dawn	0	-	-	-	0	0	0	0	0	1	1	0	0	1	0	0	0	0	5	0	6	7	1.87%
Daylight	5	-	-	-	1	1	3	4	6	36	56	5	8	7	1	5	7	3	123	25	184	240	64.00%
Dusk	0	-	-	-	0	0	0	0	1	5	6	0	0	1	0	0	0	0	7	0	8	14	3.73%
TOTALS	9	0	0	0	1	3	4	4	12	73	106	12	10	11	3	8	14	5	175	31	269	375	100%
	106											269											

Exhibit 4 – Crash Data By Location

INJURY TYPE OR FATALITY	SEGMENT CRASHES*						INTERSECTION CRASHES*						TOTAL CRASHES	% CRASHES
	2008	2009	2010	2011	2012	TOTAL	2008	2009	2010	2011	2012	TOTAL		
A	2	0	6	2	5	15	3	2	2	5	0	12	27	14.84%
B	7	3	4	1	8	23	9	8	6	7	12	42	65	35.71%
C	4	3	5	2	2	16	6	12	17	17	20	72	88	48.35%
Fatality	0	0	0	0	0	0	0	0	0	0	2	2	2	1.10%
TOTALS	13	6	15	5	15	54	18	22	25	29	34	128	182	100%
	54						128							

*NOTE:

It should be noted that effective January 1, 2009; the Illinois Vehicle Code was amended. House Bill 5907/Public Act 95-0754 (625 ILCS 5/7-201; 7-204; 7-212; 11-406; and 11-406.1 new) amended the way crashes were reported and the rules for completing and processing police crash reports. There is no way to predict the magnitude of the decline in total crashes (if any) caused by the law changes by type of roadway, police jurisdiction, or any other imaginable variable. There is also no way to retroactively convert crash data prior to crashes reported in 2009, therefore a comparison of crashes occurring prior to and after January 1, 2009 are not directly comparable. In addition, it appears the geometrics of the U.S. 30 at Galena Road/Horseman Trail/Baseline Road Intersection changed during the study years.

INJURY TYPE OR FATALITY	SEGMENT CRASHES											INTERSECTION CRASHES										TOTAL CRASHES	% CRASHES
	IL-47 → BERTRAM	BERTRAM → DICKSON	DICKSON → GORDON	GORDON → PRESCOTT	PRESCOTT → LAKEWOOD CREEK	LAKEWOOD CREEK → GRIFFIN	GRIFFIN → BLACKBERRY	BLACKBERRY → ORCHARD	ORCHARD → HORSEMAN TRAIL/ BASELINE	HORSEMAN TRAIL/ BASELINE → IL-31	TOTAL	BERTRAM ROAD	DICKSON ROAD	GORDON ROAD	PRESCOTT DRIVE	LAKEWOOD CREEK DRIVE	GRIFFIN DRIVE	BLACKBERRY ROAD	ORCHARD DRIVE	HORSEMAN TRAIL/ BASELINE ROAD	TOTAL		
A	4	-	-	-	0	0	0	1	2	8	15	1	0	2	0	2	0	0	7	0	12	27	14.84%
B	6	-	-	-	0	0	0	1	1	15	23	5	7	3	2	1	0	0	24	0	42	65	35.71%
C	0	-	-	-	2	0	0	0	1	13	16	1	0	5	1	3	3	3	48	8	72	88	48.35%
Fatality	0	-	-	-	0	0	0	0	0	0	0	0	0	0	1	0	0	0	1	0	2	2	1.10%
TOTALS	10	0	0	0	2	0	0	2	4	36	54	7	7	10	4	6	3	3	80	8	128	182	100%
	54											128											

Exhibit 5 – Crash Severity Data By Year & Location

BDE 5401 Template (Rev. 09/05/2013) **IDOT MECHANISTIC PAVEMENT DESIGN** Printed: 12/08/2014

PROJECT AND TRAFFIC INPUTS

(Enter Data in Gray Shaded Cells)

Route: U.S. Route 30
Section:
County: Kane & Kendall
Location: IL Rte. 47 to IL Rte. 31

Comments: Reconstruction Project - Temporary Pavement Design (Near IL Route 47)

Design Date: 12/08/2014 BJG <-- BY
Modify Date: <-- BY

	ADT	Year
Current:	11,300	2011
Future:	19,000	2040

Facility Type: Other Marked State Route

# of Lanes = 2 or 3
Part of future 4 lanes or more ? No
One Way Street ? No
Road Class: II

Subgrade Support Rating (SSR): Poor
Construction Year: 2016
Design Period (DP) = 5 years

	Minimum ADT	Structural Design Traffic: Actual ADT	Actual %of Total ADT	% of ADT in Design Lane
PV =	0	12,425	93.5%	P = 50%
SU =	250	235	1.8%	S = 50%
MU =	750	631	4.8%	M = 50%
Struct. Design ADT =		13,291	(2019)	

TRAFFIC FACTOR CALCULATION

FLEXIBLE PAVEMENT			RIGID PAVEMENT		
Cpv =	0.15		Cpv =	0.15	
Csu =	112.06		Csu =	135.78	
Cmu =	385.44		Cmu =	567.21	
TF flexible (Actual) =	0.68	(Actual ADT)	TF rigid (Actual) =	0.98	(Actual ADT)
TF flexible (Min) =	0.79	(Min ADT Fig. 54-2.C)	TF rigid (Min) =	1.15	(Min ADT Fig. 54-2.C)

NEW CONSTRUCTION / RECONSTRUCTION PAVEMENT DESIGN CALCULATIONS

Full-Depth HMA Pavement

Use TF flexible =	0.79	
PG Grade Lower Binder Lifts =	PG 64-22	(Fig. 53-4.R)
HMA Mixture Temp. =	75.5	deg. F (Fig. 54-5.C)
Design HMA Mixture Modulus (E_{HMA}) =	680	ksi (Fig. 54-5.D)
Design HMA Strain (ε_{HMA}) =	129	(Fig. 54-5.E)
Full Depth HMA Design Thickness =	7.75	in. (Fig. 54-5.F)
Limiting Strain Criterion Thickness =	14.75	in. (Fig. 54-5.I)
Use Full-Depth HMA Thickness =	**7.75**	**inches**

Goto Map
Goto Map

JPC Pavement

Use TF rigid =	1.15	
Edge Support =	Tied	Shoulder or C.&G.
Rigid Pavt Thick. =	**8.00**	**in. (Fig. 54-4.E)**

CRC Pavement

Use TF rigid =	1.15	
IBR value =	3	
CRCP Thickness =	**6.25**	**in. (Fig. 54-4.N)**

TF MUST BE > 60 FOR CRCP

RECONSTRUCTION ONLY (SUPPLEMENTAL) PAVEMENT DESIGN CALCULATIONS

HMA Overlay of Rubblized PCC

Use TF flexible =	0.79	
HMA Overlay Design Thickness =	5.25	in. (Fig. 54-5.U)
Limiting Strain Criterion Thickness =		in. (Fig. 54-5.V)
Use HMA Overlay Thickness =	**999.00**	**inches**

Goto Map

Unbonded Concrete Overlay

Review 54-4.03 for limitations and special considerations.

JPCP Thickness = NA inches

CONTACT BMPR FOR ASSISTANCE

DESIGN TABLES FROM BDE MANUAL CHAPTER 54 - PAVEMENT DESIGN

Class I Roads	Class II Roads	Class III Roads	Class IV Roads
4 lanes or more Part of a future 4 lanes or more One-way Streets with ADT > 3500	2 lanes with ADT > 2000 One way Street with ADT <= 3500	2 Lanes (ADT 750 -2000)	2 Lanes (ADT < 750)

Facility Type	Min. Str. Design Traffic (Fig 54-2.C): PV	SU	MU
Interstate or Freeway	0	500	1500
Other Marked State Route	0	250	750
Unmarked State Route	No Min	No Min	No Min

Class Table for One-Way Streets: ADT	Class
0 - 3500	II
>3501	I

Class	Traffic Factor ESAL Coefficients: Rigid (Fig. 54-4.C) Csu	Rigid Cmu	Flexible (Fig. 54-5.B) Csu	Flexible Cmu
I	143.81	696.42	132.50	482.53
II	135.78	567.21	112.06	385.44
III	129.58	562.47	109.14	384.35
IV	129.58	562.47	109.14	384.35

Class Table for 2 or 3 lanes (not future 4 lane & not one-way street): ADT	Class
0 - 749	IV
750 - 2000	III
>2000	II

Number of Lanes	Design Lane Distribution Factors For Structural Design Traffic (Fig. 54-2.B): Rural P	Rural S	Rural M	Urban P	Urban S	Urban M
1 Lane Ramp	100%	100%	100%	100%	100%	100%
2 or 3	50%	50%	50%	50%	50%	50%
4	32%	45%	45%	32%	45%	45%
6 or more	20%	40%	40%	8%	37%	37%

Exhibit 6 – Temporary Pavement Design Near Illinois Route 47

BDE 5401 Template (Rev. 09/05/2013) **IDOT MECHANISTIC PAVEMENT DESIGN** Printed: 12/08/2014

PROJECT AND TRAFFIC INPUTS

(Enter Data in Gray Shaded Cells)

Route: U.S. Route 30
Section:
County: Kane & Kendall
Location: IL Rte. 47 to IL Rte. 31

Comments: Reconstruction Project - Temporary Pavement Design (Near IL Route 31)

Design Date: 12/08/2014 BJG <-- BY
Modify Date: <-- BY

	ADT	Year
Current:	24,900	2011
Future:	25,000	2040

Facility Type: Other Marked State Route

# of Lanes = 2 or 3
Part of future 4 lanes or more ? No
One Way Street ? No
Road Class: II

Subgrade Support Rating (SSR): Poor
Construction Year: 2016
Design Period (DP) = 5 years

	Minimum ADT	Structural Design Traffic: Actual ADT	Actual %of Total ADT	% of ADT in Design Lane
PV =	0	23,099	92.7%	P = 50%
SU =	250	1,037	4.2%	S = 50%
MU =	750	790	3.2%	M = 50%

Struct. Design ADT = 24,926 (2019)

TRAFFIC FACTOR CALCULATION

FLEXIBLE PAVEMENT

Cpv = 0.15
Csu = 112.06
Cmu = 385.44
TF flexible (Actual) = 1.06 (Actual ADT)
TF flexible (Min) = 0.79 (Min ADT Fig. 54-2.C)

RIGID PAVEMENT

Cpv = 0.15
Csu = 135.78
Cmu = 567.21
TF rigid (Actual) = 1.48 (Actual ADT)
TF rigid (Min) = 1.15 (Min ADT Fig. 54-2.C)

NEW CONSTRUCTION / RECONSTRUCTION PAVEMENT DESIGN CALCULATIONS

Full-Depth HMA Pavement

Use TF flexible = 1.06
PG Grade Lower Binder Lifts = PG 64-22 (Fig. 53-4.R)
HMA Mixture Temp. = 75.5 deg. F (Fig. 54-5.C)
Design HMA Mixture Modulus (E_{HMA}) = 680 ksi (Fig. 54-5.D)
Design HMA Strain (ε_{HMA}) = 118 (Fig. 54-5.E)
Full Depth HMA Design Thickness = 8.25 in. (Fig. 54-5.F)
Limiting Strain Criterion Thickness = 14.75 in. (Fig. 54-5.I)
Use Full-Depth HMA Thickness = 8.25 inches

Goto Map
Goto Map

JPC Pavement

Use TF rigid = 1.48
Edge Support = Tied Shoulder or C.&G.
Rigid Pavt Thick. = 8.00 in. (Fig. 54-4.E)

CRC Pavement

Use TF rigid = 1.48
IBR value = 3
CRCP Thickness = 6.50 in. (Fig. 54-4.N)

TF MUST BE > 60 FOR CRCP

RECONSTRUCTION ONLY (SUPPLEMENTAL) PAVEMENT DESIGN CALCULATIONS

HMA Overlay of Rubblized PCC

Use TF flexible = 1.06
HMA Overlay Design Thickness = 5.75 in. (Fig. 54-5.U)
Limiting Strain Criterion Thickness = in. (Fig. 54-5.V)
Use HMA Overlay Thickness = 999.00 inches

Goto Map

Unbonded Concrete Overlay

Review 54-4.03 for limitations and special considerations.

JPCP Thickness = NA inches

CONTACT BMPR FOR ASSISTANCE

DESIGN TABLES FROM BDE MANUAL CHAPTER 54 - PAVEMENT DESIGN

Class I Roads	Class II Roads	Class III Roads	Class IV Roads
4 lanes or more Part of a future 4 lanes or more One-way Streets with ADT > 3500	2 lanes with ADT > 2000 One way Street with ADT <= 3500	2 Lanes (ADT 750 -2000)	2 Lanes (ADT < 750)

Facility Type	Min. Str. Design Traffic (Fig 54-2.C): PV	SU	MU
Interstate or Freeway	0	500	1500
Other Marked State Route	0	250	750
Unmarked State Route	No Min	No Min	No Min

Class Table for One-Way Streets: ADT	Class
0 - 3500	II
>3501	I

Class	Traffic Factor ESAL Coefficients: Rigid (Fig. 54-4.C) Csu	Cmu	Flexible (Fig. 54-5.B) Csu	Cmu
I	143.81	696.42	132.50	482.53
II	135.78	567.21	112.06	385.44
III	129.58	562.47	109.14	384.35
IV	129.58	562.47	109.14	384.35

Class Table for 2 or 3 lanes (not future 4 lane & not one-way street): ADT	Class
0 - 749	IV
750 - 2000	III
>2000	II

Number of Lanes	Design Lane Distribution Factors For Structural Design Traffic (Fig. 54-2.B): Rural P	S	M	Urban P	S	M
1 Lane Ramp	100%	100%	100%	100%	100%	100%
2 or 3	50%	50%	50%	50%	50%	50%
4	32%	45%	45%	32%	45%	45%
6 or more	20%	40%	40%	8%	37%	37%

Exhibit 7 – Temporary Pavement Design Near Illinois Route 31

COMPUTED IDOT MECHANISTIC DESIGN			
STRUCTURAL MATERIAL	THICKNESS (in.)	MODIFIED AASHTO COEFFICIENT (FIGURE 54-5.O IDOT BDE MANUAL)	SN_F (EQUATION 54-5.4 IDOT BDE MANUAL)
Surface Course	1.5	0.4	2.745
Binder Course	6.5	0.33	

EQUIVALENT MODIFIED AASHTO DESIGN			
STRUCTURAL MATERIAL	THICKNESS (in.)	MODIFIED AASHTO COEFFICIENT (FIGURE 54-5.O IDOT BDE MANUAL)	SN_F (EQUATION 54-5.4 IDOT BDE MANUAL)
Surface Course	1.5	0.4	2.745
Binder Course	4.5	0.33	
Subbase Granular Material, Type B	6	0.11	

Exhibit 8 – Temporary Pavement Structure Composition

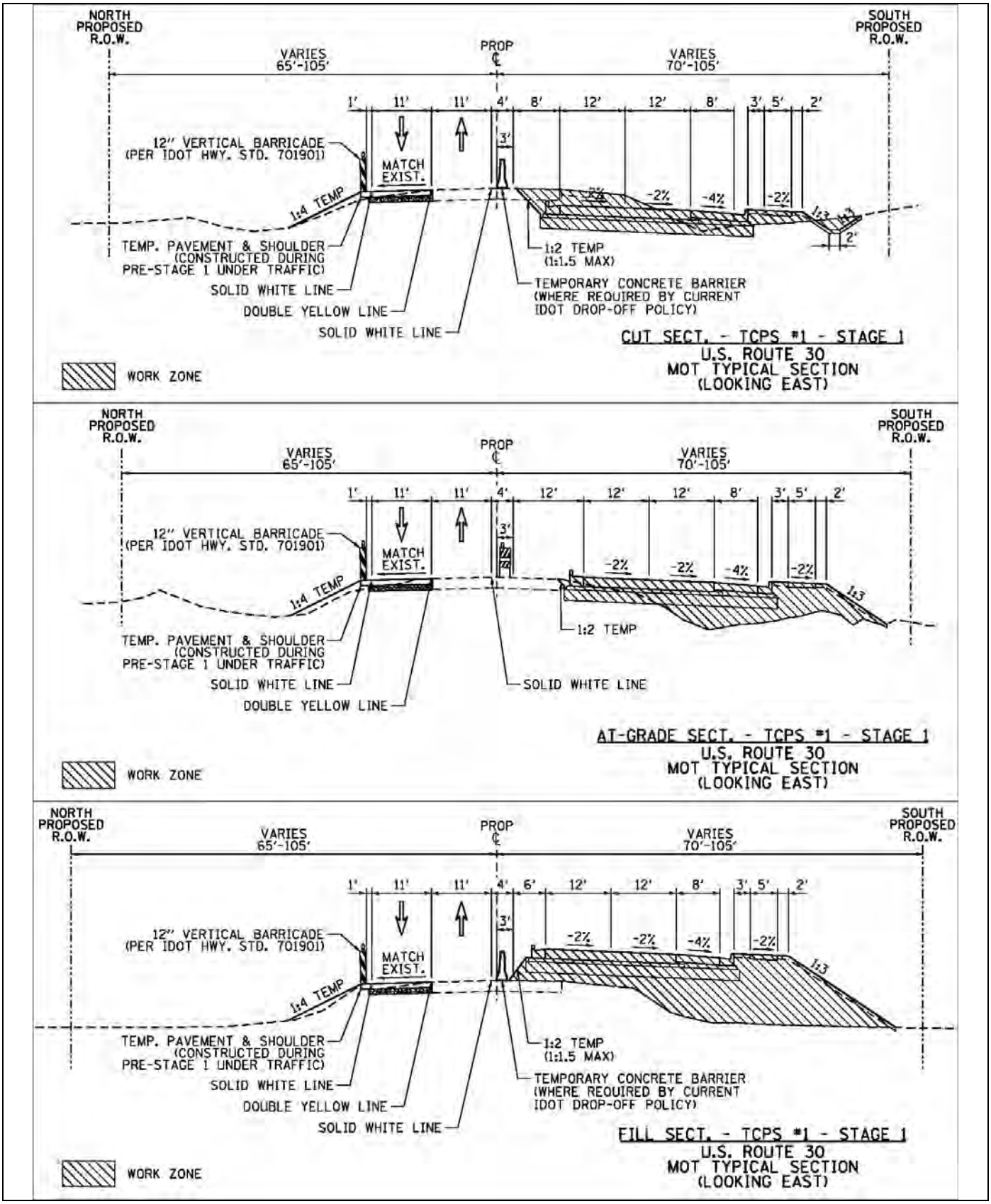


Exhibit 9 – TCP Strategy #1 Preliminary Stage 1 Construction Sketches

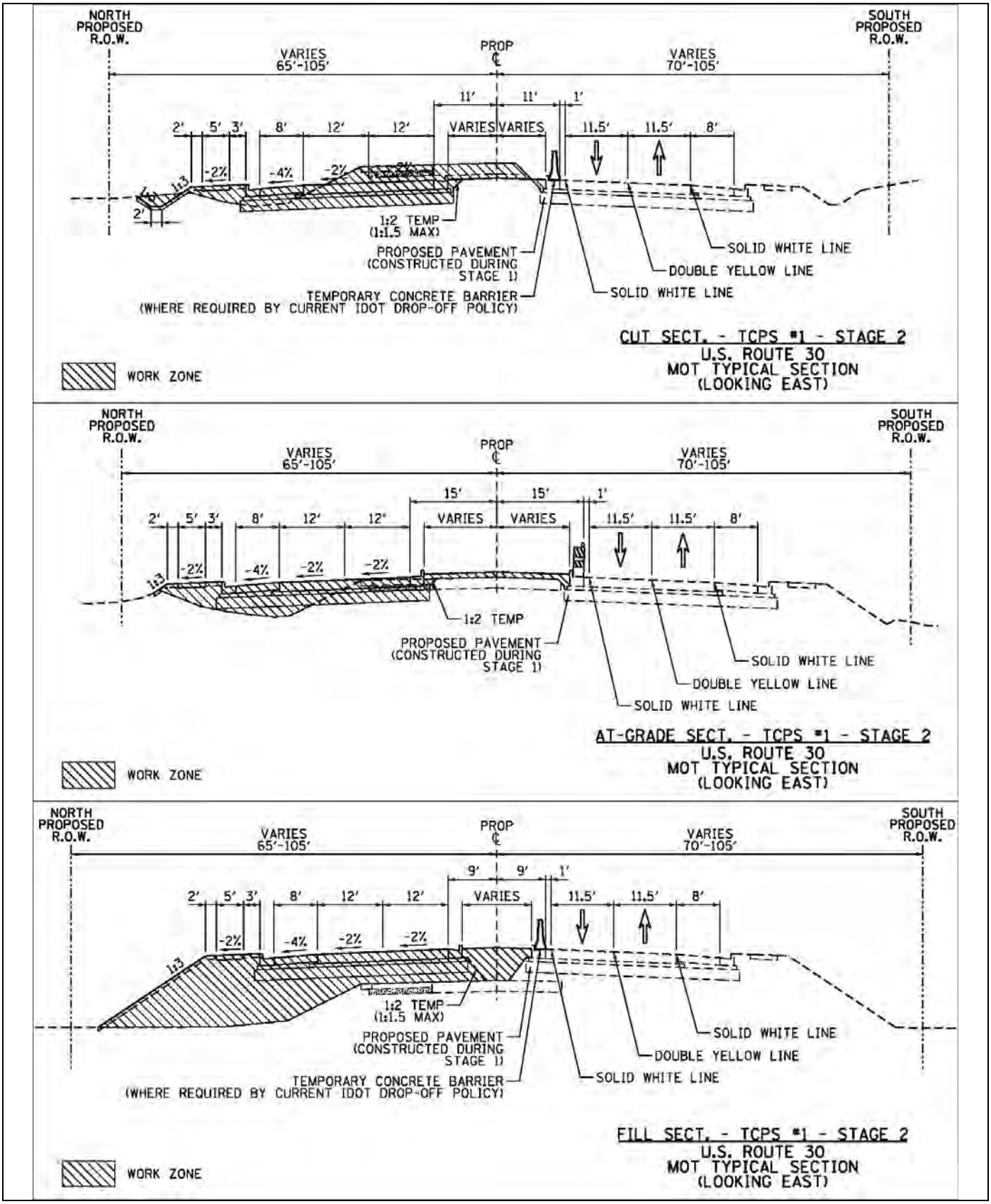


Exhibit 10 – TCP Strategy #1 Preliminary Stage 2 Construction Sketches

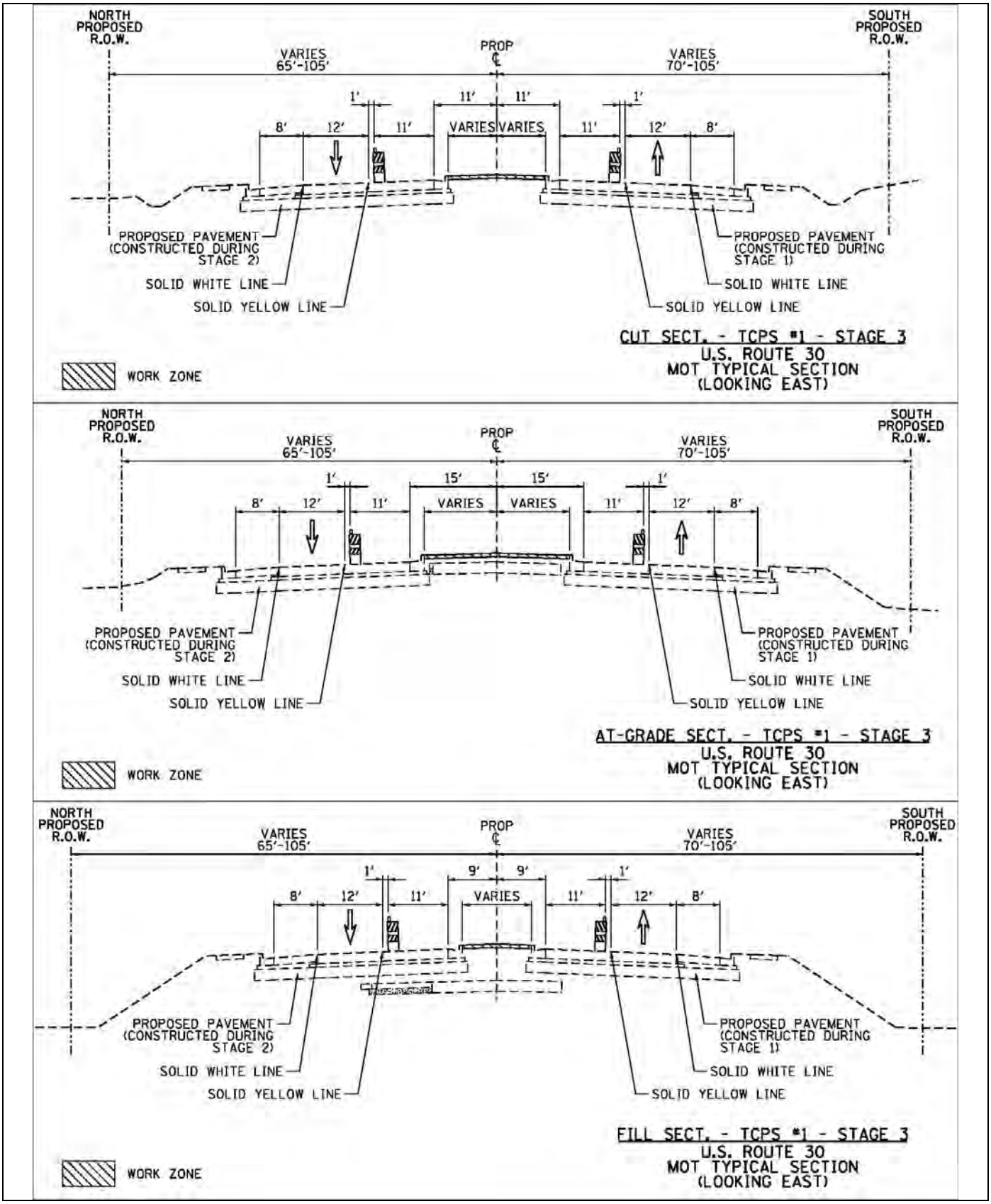
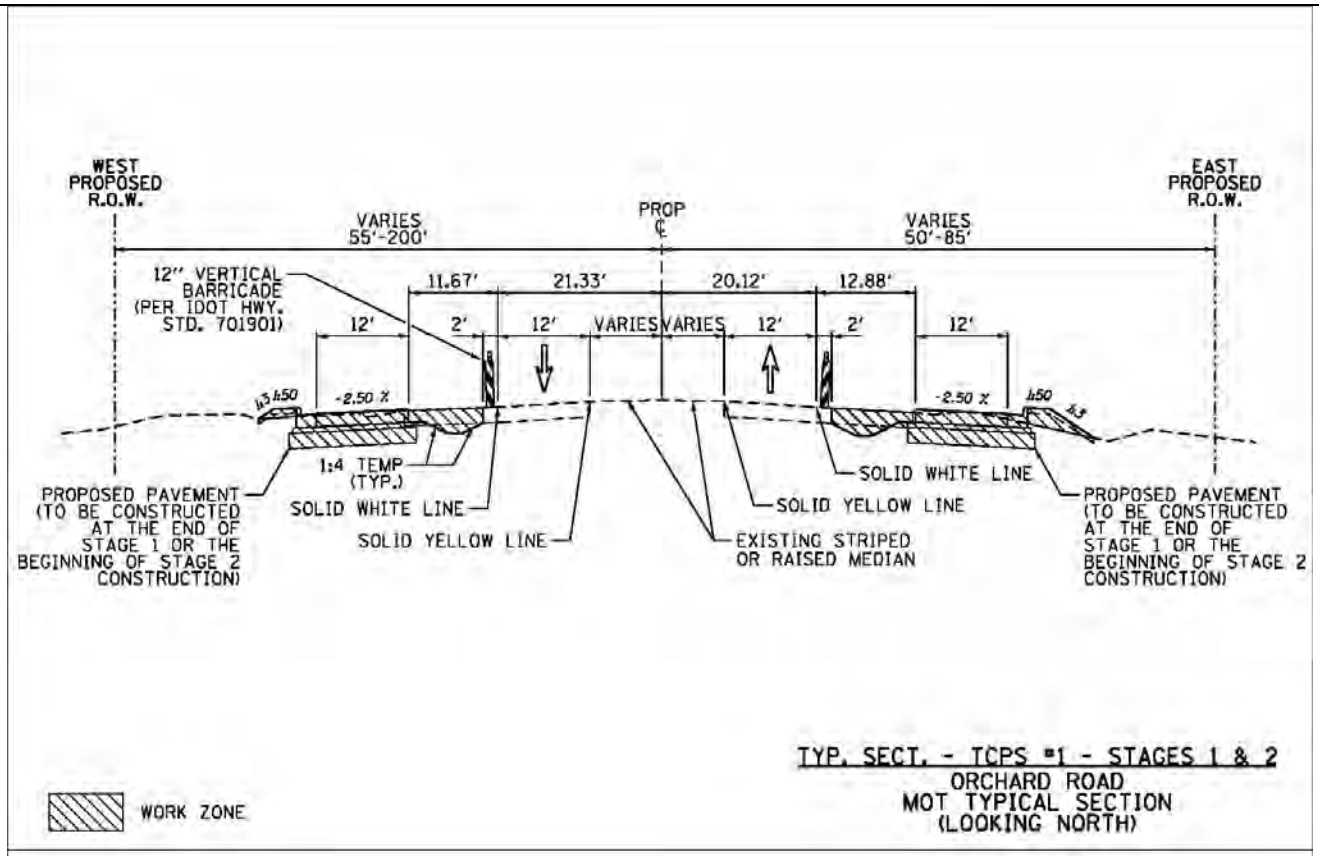


Exhibit 11 – TCP Strategy #1 Preliminary Stage 3 Construction Sketches



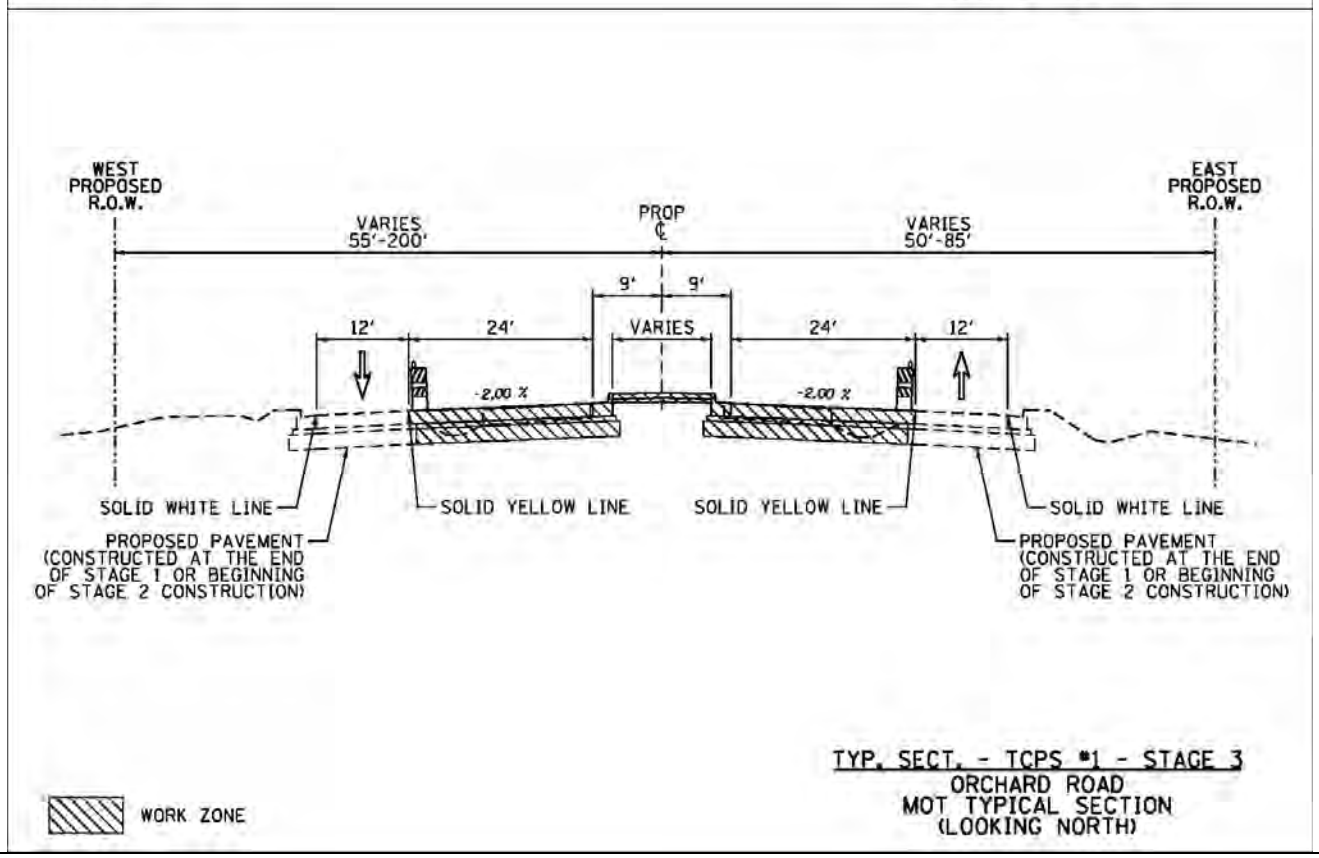


Exhibit 12 – TCP Strategy #1 Preliminary Orchard Road Stage Construction Sketches

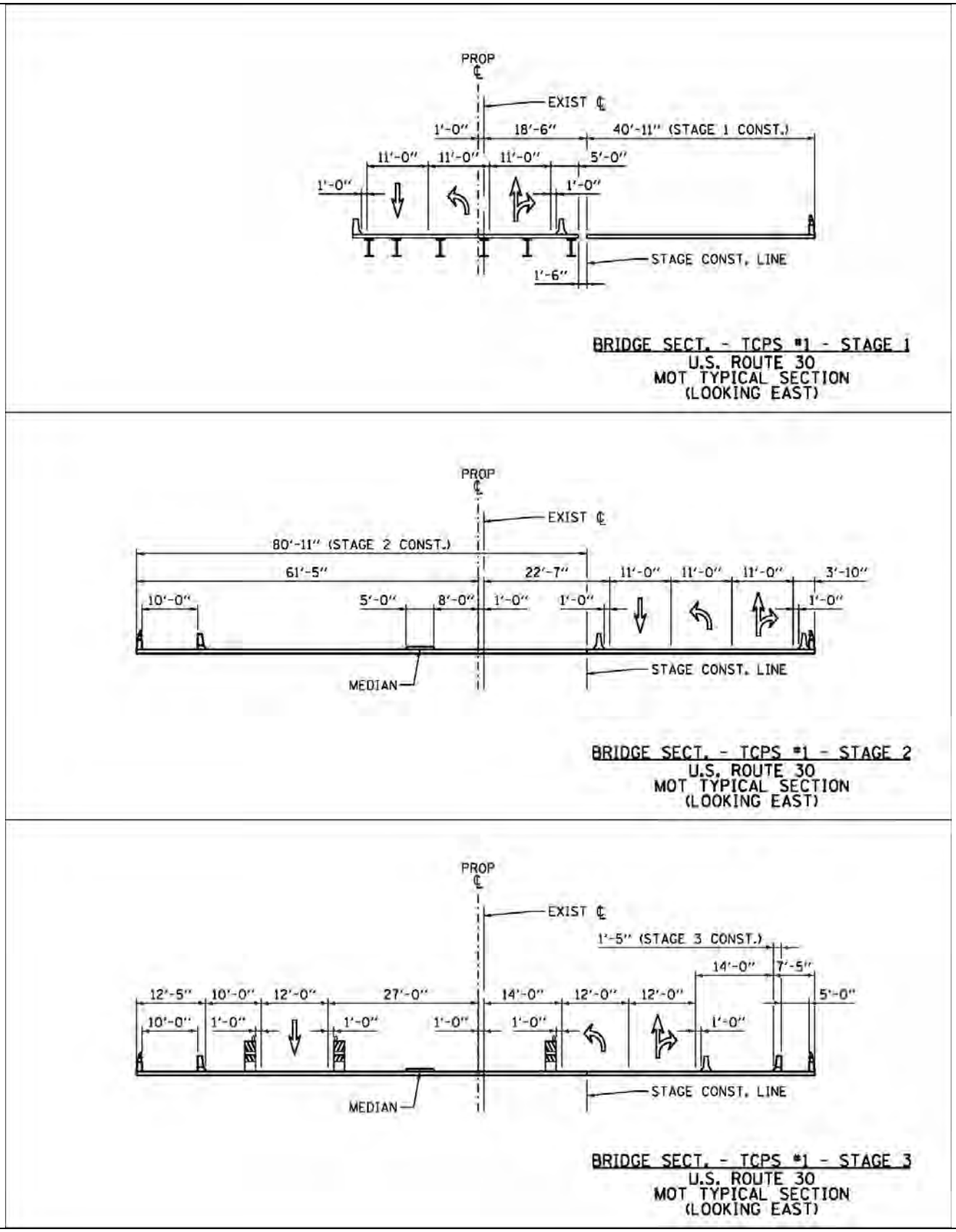


Exhibit 13 – TCP Strategy #1 Preliminary Bridge Stage Construction Sketches

ESTIMATE OF IMPLEMENTATION COST TCP STRATEGY #1 – RECONSTRUCTION BY HALVES (SIDES)					
Pay Item Code	Description	Unit	Quantity	Unit Price	Total Price
31101400	SUB GRAN MAT B 6	SQ YD	25,990	$15.00	$ 389,850.00
44000500	COMB CURB GUTTER REM	FOOT	15	$9.00	$ 135.00
44004250	PAVED SHLD REMOVAL	SQ YD	10,345	$10.50	$ 108,622.50
70100200	TRAF CONT-PROT 701331	EACH	2	$20,000.00	$ 40,000.00
70100450	TRAF CONT-PROT 701201	L SUM	1	$3,000.00	$ 3,000.00
70100500	TRAF CONT-PROT 701326	L SUM	1	$2,500.00	$ 2,500.00
70102640	TRAF CONT-PROT 701801	L SUM	1	$1,000.00	$ 1,000.00
70300100	SHORT TERM PAVT MKING	FOOT	12,764	$1.00	$ 12,764.00
70300220	TEMP PVT MK LINE 4	FOOT	280,800	$1.00	$ 280,800.00
70300240	TEMP PVT MK LINE 6	FOOT	22,080	$1.50	$ 33,120.00
70300250	TEMP PVT MK LINE 8	FOOT	12,600	$2.00	$ 25,200.00
70300260	TEMP PVT MK LINE 12	FOOT	16,919	$3.00	4 50,756.33
70300280	TEMP PVT MK LINE 24	FOOT	216	$6.00	$ 1,296.00
70301000	WORK ZONE PAVT MK REM	SQ FT	134,647	$2.50	$ 336,617.50
70400100	TEMP CONC BARRIER	FOOT	11,337.5	$25.00	$ 283,437.50
70400200	REL TEMP CONC BARRIER	FOOT	11,337.5	$12.50	$ 141,718.75
70600250	IMP ATTN TEMP NRD TL3	EACH	24	$5,000.00	$ 120,000.00
70600350	IMP ATTN REL NRD TL3	EACH	24	$2,500.00	$ 60,000.00
78200100	MONODIR PRIS BAR REFL	EACH	467	$9.00	$ 4,203.00
78300100	PAVT MARKING REMOVAL	SQ FT	39,144	$5.00	$ 195,720.00
89000100	TEMP TR SIG INSTALL	EACH	3	$60,000.00	$ 180,000.00
X4400110	TEMP PAVT REMOVAL	SQ YD	30,038	$13.50	$ 405,513.00
X4810100	TEMP SHOULDERS	SQ YD	5,303	$35.00	$ 185,605.00
X7040125	PIN TEMP CONC BARRIER	EACH	5,298	$10.00	$ 52,980.00
Z0062456	TEMP PAVEMENT	SQ YD	24,735	$35.00	$ 865,725.00
				SUB-TOTAL =	$3,780,563.58
+				20% CONTINGENCY =	$ 756,112.72
				TOTAL =	**$4,536,676.30**
				TOTAL (ROUNDED) =	**$4,600,000.00**

Exhibit 14 – TCP Strategy #1 Implementation Cost Estimate

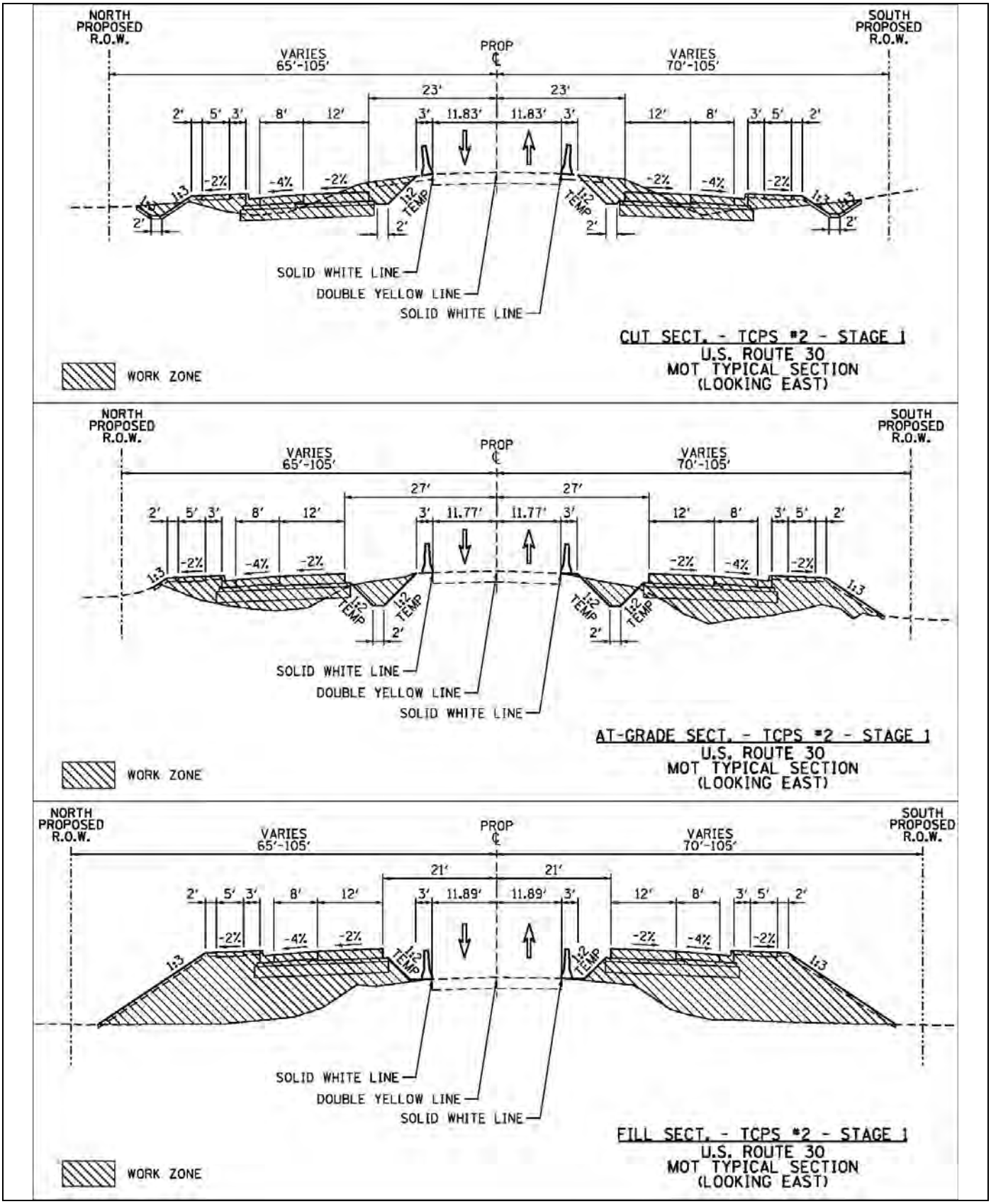


Exhibit 15 – TCP Strategy #2 Preliminary Stage 1 Construction Sketches

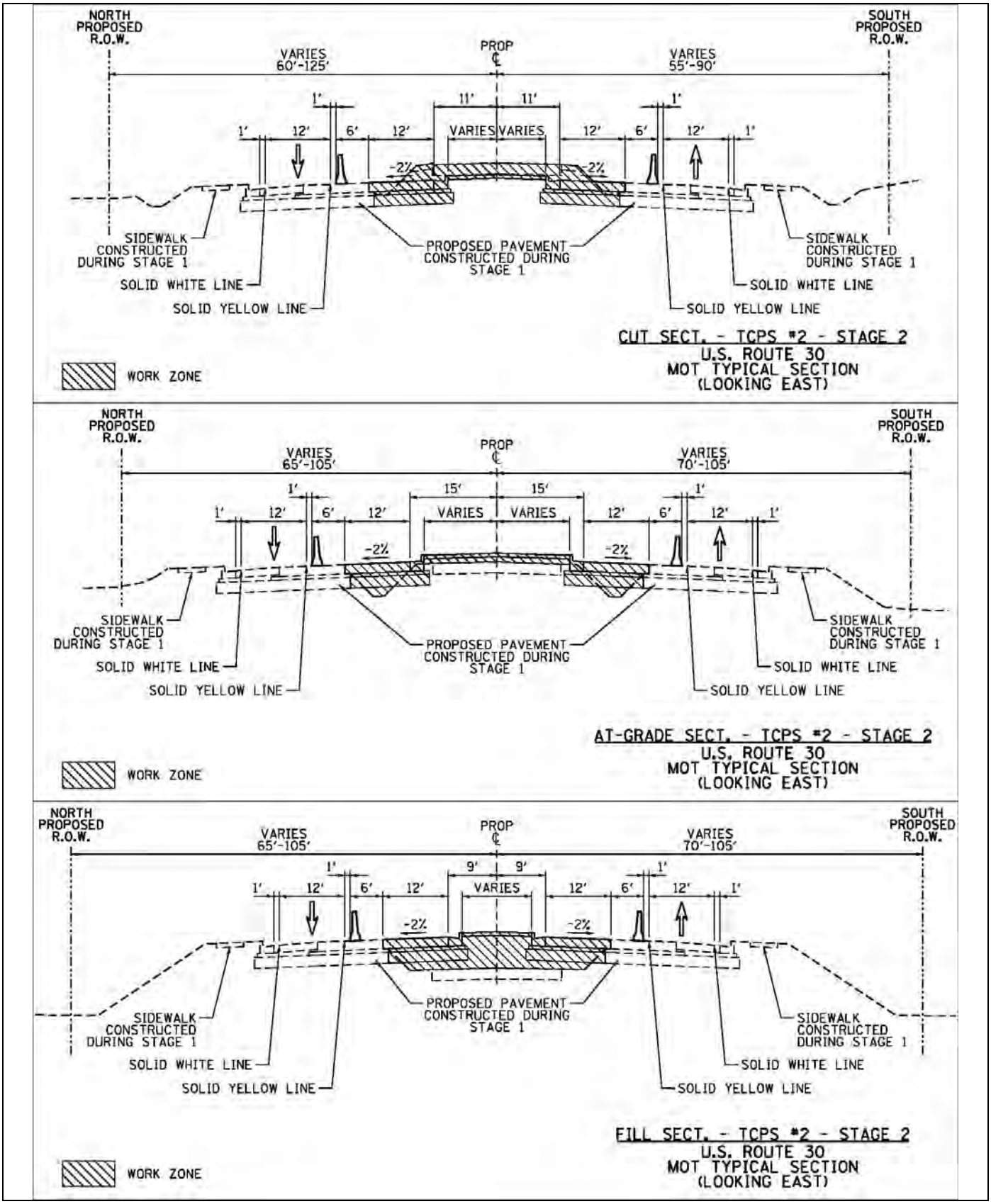
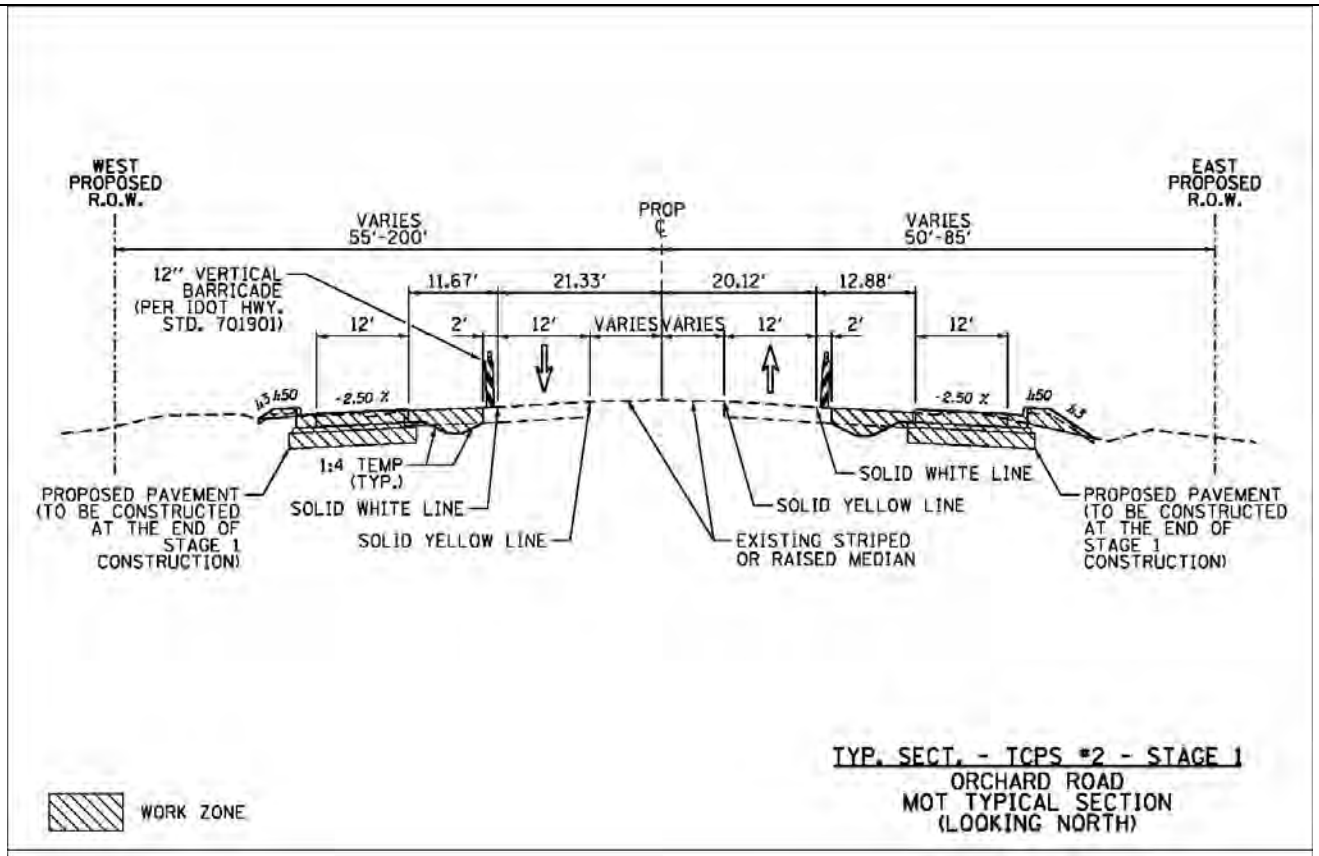


Exhibit 16 – TCP Strategy #2 Preliminary Stage 2 Construction Sketches



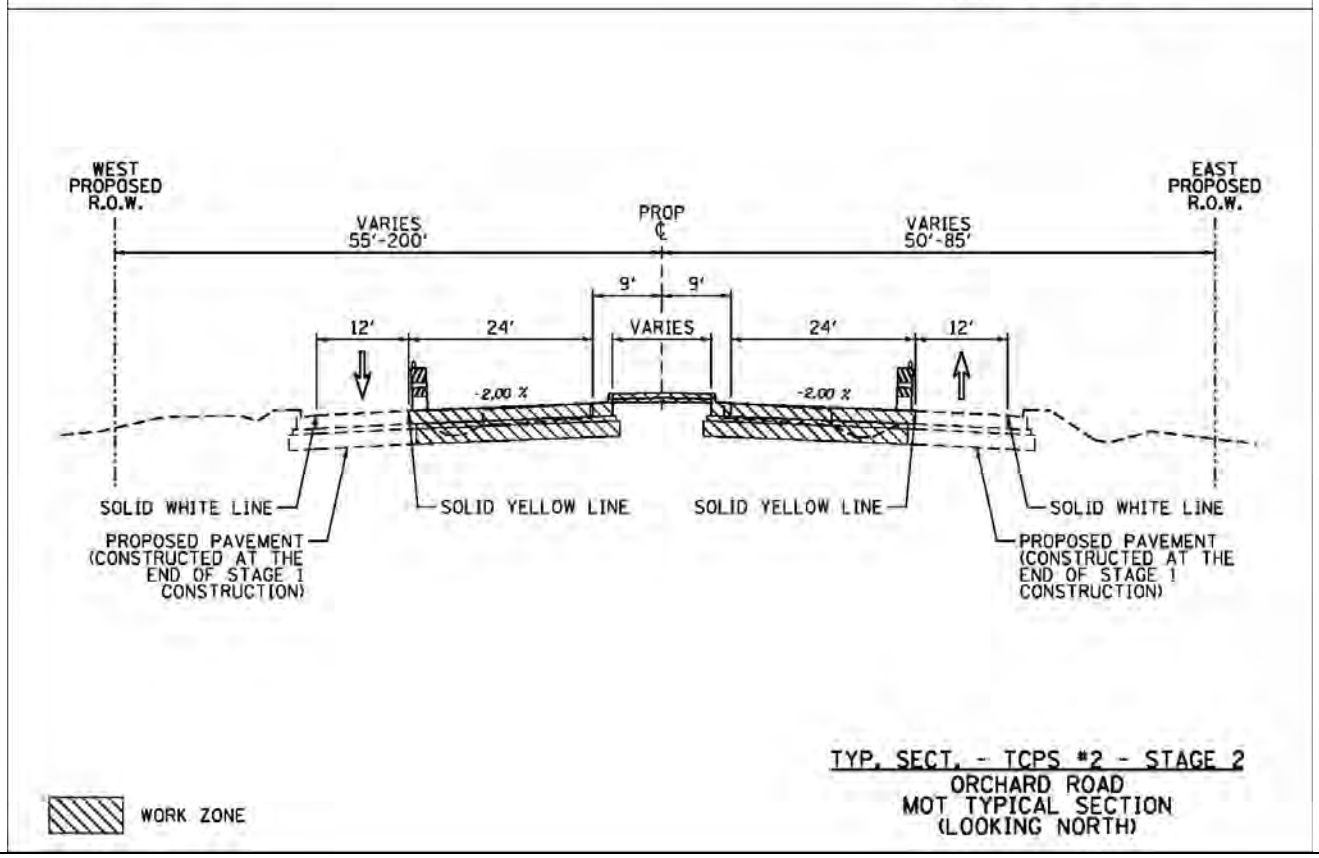


Exhibit 17 – TCP Strategy #2 Preliminary Orchard Road Stage Construction Sketches

ESTIMATE OF IMPLEMENTATION COST TCP STRATEGY #2 – PARALLEL/ADJACENT RECONSTRUCTION					
Pay Item Code	Description	Unit	Quantity	Unit Price	Total Price
31101400	SUB GRAN MAT B 6	SQ YD	3,166	$15.00	$ 47,490.00
44004250	PAVED SHLD REMOVAL	SQ YD	342	$10.50	$ 3,591.00
5421D018	P CUL CL D 1 18 TEMP	FOOT	800	$45.00	$ 36,000.00
70100200	TRAF CONT-PROT 701331	EACH	2	$20,000.00	$ 40,000.00
70100450	TRAF CONT-PROT 701201	L SUM	1	$3,000.00	$ 3,000.00
70100500	TRAF CONT-PROT 701326	L SUM	1	$2,500.00	$ 2,500.00
70102640	TRAF CONT-PROT 701801	L SUM	1	$1,000.00	$ 1,000.00
70300100	SHORT TERM PAVT MKING	FOOT	8,509	$1.00	$ 8,509.09
70300220	TEMP PVT MK LINE 4	FOOT	187,200	$1.00	$ 187,200.00
70300240	TEMP PVT MK LINE 6	FOOT	14,720	$1.50	$ 22,080.00
70300250	TEMP PVT MK LINE 8	FOOT	8,400	$2.00	$ 16,800.00
70300260	TEMP PVT MK LINE 12	FOOT	11,279	$3.00	$ 33,837.55
70300280	TEMP PVT MK LINE 24	FOOT	144	$6.00	$ 864.00
70301000	WORK ZONE PAVT MK REM	SQ FT	89,764	$2.50	$ 224,410.00
70400100	TEMP CONC BARRIER	FOOT	46,800.0	$25.00	$1,170,000.00
70400200	REL TEMP CONC BARRIER	FOOT	46,800.0	$12.50	$ 585,000.00
70600250	IMP ATTN TEMP NRD TL3	EACH	44	$5,000.00	$ 220,000.00
70600350	IMP ATTN REL NRD TL3	EACH	44	$2,500.00	$ 110,000.00
78200100	MONODIR PRIS BAR REFL	EACH	1,874	$9.00	$ 16,866.00
78300100	PAVT MARKING REMOVAL	SQ FT	39,144	$5.00	$ 195,720.00
89000100	TEMP TR SIG INSTALL	EACH	3	$60,000.00	$ 180,000.00
X4400110	TEMP PAVT REMOVAL	SQ YD	3,958	$13.50	$ 53,433.00
X4810100	TEMP SHOULDERS	SQ YD	1,057	$35.00	$ 36,995.00
X7040125	PIN TEMP CONC BARRIER	EACH	11,100	$10.00	$ 111,000.00
Z0041500	PLUG EX CULVERTS	EACH	16	$7,952.16	$ 127,234.50
Z0062456	TEMP PAVEMENT	SQ YD	2,901	$35.00	$ 101,535.00
				SUB-TOTAL =	$3,535,065.15
+				20% CONTINGENCY =	$ 707,013.03
				TOTAL =	**$4,242,078.18**
				TOTAL (ROUNDED) =	**$4,300,000.00**

Exhibit 18 – TCP Strategy #2 Implementation Cost Estimate

Timings
21: Orchard & US 30

US 30 Network Analysis
2012 AM Peak Hour

Lane Group	EBL	EBT	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT
Lane Configurations										
Volume (vph)	277	689	113	304	267	58	623	412	246	425
Turn Type	pm+pt	NA	pm+pt	NA	Perm	pm+pt	NA	Perm	pm+pt	NA
Protected Phases	5	2	1	6		3	8		7	4
Permitted Phases	2		6		6	8		8	4	
Detector Phase	5	2	1	6	6	3	8	8	7	4
Switch Phase										
Minimum Initial (s)	3.0	4.0	3.0	4.0	4.0	3.0	4.0	4.0	3.0	4.0
Minimum Split (s)	11.0	23.0	11.1	23.1	23.1	10.5	22.5	22.5	10.5	22.5
Total Split (s)	12.0	29.0	12.0	29.0	29.0	12.0	23.0	23.0	16.0	27.0
Total Split (%)	15.0%	36.3%	15.0%	36.3%	36.3%	15.0%	28.8%	28.8%	20.0%	33.8%
Yellow Time (s)	5.5	5.5	5.5	5.5	5.5	4.5	4.5	4.5	4.5	4.5
All-Red Time (s)	1.5	1.5	1.5	1.5	1.5	2.0	2.0	2.0	2.0	2.0
Lost Time Adjust (s)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Lost Time (s)	7.0	7.0	7.0	7.0	7.0	6.5	6.5	6.5	6.5	6.5
Lead/Lag	Lead	Lag	Lead	Lag	Lag	Lead	Lag	Lag	Lead	Lag
Lead-Lag Optimize?	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Recall Mode	None	None	None	None	None	None	None	None	None	None
Act Effct Green (s)	25.9	22.0	24.3	19.2	19.2	21.3	15.8	15.8	30.5	25.0
Actuated g/C Ratio	0.34	0.29	0.32	0.25	0.25	0.28	0.21	0.21	0.40	0.33
v/c Ratio	0.86	0.78	0.59	0.66	0.47	0.20	0.84	0.80	0.81	0.42
Control Delay	47.8	31.7	29.3	33.5	6.6	17.1	42.2	26.1	41.0	23.1
Queue Delay	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Delay	47.8	31.7	29.3	33.5	6.6	17.1	42.2	26.1	41.0	23.1
LOS	D	C	C	C	A	B	D	C	D	C
Approach Delay		35.8		22.3			34.8			29.1
Approach LOS		D		C			C			C

Intersection Summary

Cycle Length: 80
Actuated Cycle Length: 76.8
Natural Cycle: 80
Control Type: Semi Act-Uncoord
Maximum v/c Ratio: 0.86
Intersection Signal Delay: 31.6 — Intersection LOS: C
Intersection Capacity Utilization 83.0% — ICU Level of Service E
Analysis Period (min) 15

Splits and Phases: 21: Orchard & US 30

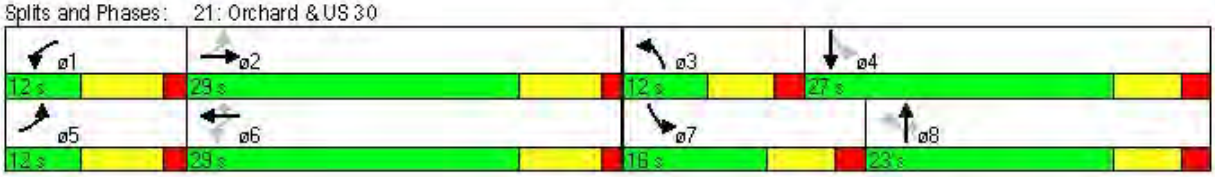


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Exhibit 19 – U.S. 30/Orchard Rd. Existing AM Peak Hour Queue Analysis

Timings
21: Orchard & US 30

US 30 Network Analysis
2012 PM Peak Hour

Lane Group	EBL	EBT	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT
Lane Configurations										
Volume (vph)	154	572	312	613	322	193	578	248	281	645
Turn Type	pm+pt	NA	pm+pt	NA	Perm	pm+pt	NA	Perm	pm+pt	NA
Protected Phases	5	2	1	6		3	8		7	4
Permitted Phases	2		6		6	8		8	4	
Detector Phase	5	2	1	6	6	3	8	8	7	4
Switch Phase										
Minimum Initial (s)	3.0	4.0	3.0	4.0	4.0	3.0	4.0	4.0	3.0	4.0
Minimum Split (s)	11.0	23.0	11.1	23.1	23.1	10.5	22.5	22.5	10.5	22.5
Total Split (s)	12.0	28.0	20.0	36.0	36.0	13.5	24.0	24.0	18.0	28.0
Total Split (%)	13.3%	31.1%	22.2%	40.0%	40.0%	15.0%	26.7%	26.7%	20.0%	31.1%
Yellow Time (s)	5.5	5.5	5.5	5.5	5.5	4.5	4.5	4.5	4.5	4.5
All-Red Time (s)	1.5	1.5	1.5	1.5	1.5	2.0	2.0	2.0	2.0	2.0
Lost Time Adjust (s)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Lost Time (s)	7.0	7.0	7.0	7.0	7.0	6.5	6.5	6.5	6.5	6.5
Lead/Lag	Lead	Lag	Lead	Lag	Lag	Lead	Lag	Lag	Lead	Lag
Lead-Lag Optimize?	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Recall Mode	None	None	None	None	None	None	None	None	None	None
Act Effct Green (s)	25.8	20.8	40.8	28.8	28.8	24.4	17.4	17.4	33.4	21.9
Actuated g/C Ratio	0.29	0.23	0.45	0.32	0.32	0.27	0.19	0.19	0.37	0.24
v/c Ratio	0.87	0.82	0.90	0.96	0.45	0.87	0.82	0.46	0.92	0.94
Control Delay	62.6	41.1	51.6	59.6	6.2	57.8	45.4	4.8	59.6	51.6
Queue Delay	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Delay	62.6	41.1	51.6	59.6	6.2	57.8	45.4	4.8	59.6	51.6
LOS	E	D	D	E	A	E	D	A	E	D
Approach Delay		45.0		43.8			37.9			53.6
Approach LOS		D		D			D			D

Intersection Summary

Cycle Length: 90
Actuated Cycle Length: 89.7
Natural Cycle: 90
Control Type: Semi Act-Uncoord
Maximum v/c Ratio: 0.96
Intersection Signal Delay: 45.2 — Intersection LOS: D
Intersection Capacity Utilization 95.3% — ICU Level of Service F
Analysis Period (min) 15

Splits and Phases: 21: Orchard & US 30

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Exhibit 20 – U.S. 30/Orchard Rd. Existing PM Peak Hour Queue Analysis

HCM 2010 Signalized Intersection Summary — Timing Plan: AM

21: Orchard & US 30 — Phase 1 Constuction - Lefts allowed - EB & WB TH-RT

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Volume (veh/h)	277	689	127	113	304	267	58	623	412	246	425	57
Number	5	2	12	1	6	16	3	8	18	7	4	14
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Adj Sat Flow, veh/h/ln	1863	1926	1900	1743	1851	1900	1759	1887	1863	1792	1867	1900
Adj Flow Rate, veh/h	277	689	119	113	304	231	58	623	141	246	425	48
Adj No. of Lanes	1	1	0	1	1	0	1	2	1	1	2	0
Peak Hour Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Percent Heavy Veh, %	2	4	4	9	9	9	8	6	2	6	7	7
Cap, veh/h	408	669	116	226	409	311	237	638	282	251	819	92
Arrive On Green	0.13	0.42	0.42	0.11	0.42	0.42	0.04	0.18	0.18	0.12	0.25	0.25
Sat Flow, veh/h	1774	1601	276	1660	977	743	1675	3585	1583	1707	3216	361
Grp Volume(v), veh/h	277	0	808	113	0	535	58	623	141	246	233	240
Grp Sat Flow(s),veh/h/ln	1774	0	1877	1660	0	1720	1675	1792	1583	1707	1774	1803
Q Serve(g_s), s	12.6	0.0	62.7	5.2	0.0	39.4	4.2	25.9	12.1	17.5	16.9	17.1
Cycle Q Clear(g_c), s	12.6	0.0	62.7	5.2	0.0	39.4	4.2	25.9	12.1	17.5	16.9	17.1
Prop In Lane	1.00		0.15	1.00		0.43	1.00		1.00	1.00		0.20
Lane Grp Cap(c), veh/h	408	0	785	226	0	720	237	638	282	251	452	459
V/C Ratio(X)	0.68	0.00	1.03	0.50	0.00	0.74	0.25	0.98	0.50	0.98	0.52	0.52
Avail Cap(c_a), veh/h	408	0	785	226	0	720	237	638	282	251	452	459
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	0.00	1.00	1.00	0.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Uniform Delay (d), s/veh	26.0	0.0	43.7	31.2	0.0	36.8	47.6	61.3	55.6	44.7	48.0	48.0
Incr Delay (d2), s/veh	8.8	0.0	40.0	7.7	0.0	6.8	2.5	30.3	6.2	52.4	4.2	4.2
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	7.2	0.0	41.2	2.9	0.0	20.1	2.1	15.6	5.7	11.8	8.8	9.1
LnGrp Delay(d),s/veh	34.8	0.0	83.6	38.9	0.0	43.6	50.1	91.6	61.9	97.1	52.2	52.2
LnGrp LOS	C		F	D		D	D	F	E	F	D	D
Approach Vol, veh/h		1085			648			822			719	
Approach Delay, s/veh		71.2			42.8			83.6			67.5	
Approach LOS		E			D			F			E	

Timer	1	2	3	4	5	6	7	8
Assigned Phs	1	2	3	4	5	6	7	8
Phs Duration (G+Y+Rc), s	23.1	69.7	12.5	44.7	23.0	69.8	24.0	33.2
Change Period (Y+Rc), s	7.0	7.0	6.5	6.5	4.0	7.0	6.5	6.5
Max Green Setting (Gmax), s	16.1	62.7	6.0	38.2	19.0	62.8	17.5	26.7
Max Q Clear Time (g_c+I1), s	7.2	0.0	0.0	0.0	14.6	0.0	0.0	0.0
Green Ext Time (p_c), s	0.1	0.0	0.0	0.0	0.3	0.0	0.0	0.0

Intersection Summary	
HCM 2010 Ctrl Delay	67.9
HCM 2010 LOS	E

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Exhibit 21 – U.S. 30/Orchard Rd. Stage 1 AM Peak Hour Queue Analysis

HCM 2010 Signalized Intersection Summary — Timing Plan: PM

21: Orchard & US 30 — Phase 1 Construction - Lefts allowed - EB & WB TH-RT

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Volume (veh/h)	154	572	123	312	613	322	193	578	248	281	645	198
Number	5	2	12	1	6	16	3	8	18	7	4	14
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Adj Sat Flow, veh/h/ln	1827	1920	1900	1900	1973	1900	1881	1923	1845	1827	1927	1900
Adj Flow Rate, veh/h	154	572	114	312	613	299	193	578	73	281	645	174
Adj No. of Lanes	1	1	0	1	1	0	1	2	1	1	2	0
Peak Hour Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Percent Heavy Veh, %	4	4	4	0	1	1	1	4	3	4	4	4
Cap, veh/h	234	614	122	356	552	269	173	572	246	251	580	156
Arrive On Green	0.11	0.39	0.39	0.15	0.44	0.44	0.07	0.16	0.16	0.12	0.20	0.20
Sat Flow, veh/h	1740	1555	310	1810	1254	612	1792	3654	1568	1740	2854	769
Grp Volume(v), veh/h	154	0	686	312	0	912	193	578	73	281	414	405
Grp Sat Flow(s),veh/h/ln	1740	0	1865	1810	0	1866	1792	1827	1568	1740	1831	1792
Q Serve(g_s), s	8.5	0.0	52.8	18.4	0.0	66.0	10.5	23.5	6.2	17.5	30.5	30.5
Cycle Q Clear(g_c), s	8.5	0.0	52.8	18.4	0.0	66.0	10.5	23.5	6.2	17.5	30.5	30.5
Prop In Lane	1.00		0.17	1.00		0.33	1.00		1.00	1.00		0.43
Lane Grp Cap(c), veh/h	234	0	736	356	0	821	173	572	246	251	372	364
V/C Ratio(X)	0.66	0.00	0.93	0.88	0.00	1.11	1.11	1.01	0.30	1.12	1.11	1.11
Avail Cap(c_a), veh/h	234	0	736	356	0	821	173	572	246	251	372	364
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	0.00	1.00	1.00	0.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Uniform Delay (d), s/veh	39.0	0.0	43.5	41.9	0.0	42.0	54.2	63.2	55.9	47.3	59.8	59.8
Incr Delay (d2), s/veh	13.7	0.0	20.2	24.9	0.0	66.5	101.9	40.0	3.1	92.8	80.1	81.2
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	7.0	0.0	31.4	15.0	0.0	49.1	6.9	15.0	2.9	8.4	23.7	23.3
LnGrp Delay(d),s/veh	52.7	0.0	63.7	66.8	0.0	108.5	156.1	103.3	59.0	140.1	139.8	141.0
LnGrp LOS	D		E	E		F	F	F	E	F	F	F
Approach Vol, veh/h		840			1224			844			1100	
Approach Delay, s/veh		61.6			97.9			111.6			140.3	
Approach LOS		E			F			F			F	

Timer	1	2	3	4	5	6	7	8
Assigned Phs	1	2	3	4	5	6	7	8
Phs Duration (G+Y+Rc), s	29.8	66.2	17.0	37.0	23.0	73.0	24.0	30.0
Change Period (Y+Rc), s	7.0	7.0	6.5	6.5	7.0	7.0	6.5	6.5
Max Green Setting (Gmax), s	22.8	59.2	10.5	30.5	16.0	66.0	17.5	23.5
Max Q Clear Time (g_c+I1), s	20.4	0.0	12.5	0.0	10.5	0.0	19.5	0.0
Green Ext Time (p_c), s	0.2	0.0	0.0	0.0	0.2	0.0	0.0	0.0

Intersection Summary	
HCM 2010 Ctrl Delay	104.8
HCM 2010 LOS	F

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Exhibit 22 – U.S. 30/Orchard Rd. Stage 1 PM Peak Hour Queue Analysis

HCM 2010 Signalized Intersection Summary
21: Orchard & US 30

Timing Plan: AM
Phase 2 Constuction - EB & WB TH-RT

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Volume (veh/h)	277	689	127	113	304	267	58	623	412	246	425	57
Number	5	2	12	1	6	16	3	8	18	7	4	14
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Adj Sat Flow, veh/h/ln	1863	1926	1900	1743	1851	1900	1759	1887	1863	1792	1867	1900
Adj Flow Rate, veh/h	277	689	0	113	304	233	58	623	0	246	425	48
Adj No. of Lanes	1	1	0	1	1	0	1	2	1	1	2	0
Peak Hour Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Percent Heavy Veh, %	2	4	4	9	9	9	8	6	2	6	7	7
Cap, veh/h	365	781	0	278	376	288	124	597	264	240	750	84
Arrive On Green	0.13	0.41	0.00	0.11	0.39	0.39	0.07	0.17	0.00	0.14	0.23	0.23
Sat Flow, veh/h	1774	1926	0	1660	973	746	1675	3585	1583	1707	3216	361
Grp Volume(v), veh/h	277	689	0	113	0	537	58	623	0	246	233	240
Grp Sat Flow(s),veh/h/ln	1774	1926	0	1660	0	1719	1675	1792	1583	1707	1774	1803
Q Serve(g_s), s	13.5	49.7	0.0	5.6	0.0	41.8	5.0	25.0	0.0	21.1	17.4	17.6
Cycle Q Clear(g_c), s	13.5	49.7	0.0	5.6	0.0	41.8	5.0	25.0	0.0	21.1	17.4	17.6
Prop In Lane	1.00		0.00	1.00		0.43	1.00		1.00	1.00		0.20
Lane Grp Cap(c), veh/h	365	781	0	278	0	664	124	597	264	240	414	421
V/C Ratio(X)	0.76	0.88	0.00	0.41	0.00	0.81	0.47	1.04	0.00	1.02	0.56	0.57
Avail Cap(c_a), veh/h	365	781	0	278	0	664	124	597	264	240	414	421
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	1.00	0.00	1.00	0.00	1.00	1.00	1.00	0.00	1.00	1.00	1.00
Uniform Delay (d), s/veh	29.6	41.3	0.0	29.4	0.0	41.1	66.6	62.5	0.0	64.5	50.8	50.8
Incr Delay (d2), s/veh	13.7	13.8	0.0	4.4	0.0	10.3	12.1	48.4	0.0	64.5	5.5	5.5
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0
%ile BackOfQ(50%),veh/ln	8.0	29.4	0.0	2.9	0.0	21.7	2.7	16.4	0.0	14.2	9.2	9.4
LnGrp Delay(d),s/veh	43.3	55.0	0.0	33.7	0.0	51.4	78.8	110.9	0.0	129.1	56.2	56.3
LnGrp LOS	D	E		C		D	E	F		F	E	E
Approach Vol, veh/h		966			650			681			719	
Approach Delay, s/veh		51.7			48.3			108.2			81.2	
Approach LOS		D			D			F			F	

Timer	1	2	3	4	5	6	7	8
Assigned Phs	1	2	3	4	5	6	7	8
Phs Duration (G+Y+Rc), s	23.1	67.8	17.6	41.5	26.0	64.9	27.6	31.5
Change Period (Y+Rc), s	7.0	7.0	6.5	6.5	7.0	7.0	6.5	6.5
Max Green Setting (Gmax), s	16.1	60.8	11.1	35.0	19.0	57.9	21.1	25.0
Max Q Clear Time (g_c+I1), s	7.6	0.0	7.0	0.0	15.5	0.0	23.1	0.0
Green Ext Time (p_c), s	0.1	0.0	0.0	0.0	0.3	0.0	0.0	0.0

Intersection Summary	
HCM 2010 Ctrl Delay	70.8
HCM 2010 LOS	E

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Exhibit 23 – U.S. 30/Orchard Rd. Stage 2 AM Peak Hour Queue Analysis

HCM 2010 Signalized Intersection Summary — Timing Plan: PM

21: Orchard & US 30 — Phase 2 Construction - EB & WB TH-RT

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Volume (veh/h)	154	572	123	312	613	322	193	578	248	281	645	198
Number	5	2	12	1	6	16	3	8	18	7	4	14
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Adj Sat Flow, veh/h/ln	1827	1920	1900	1900	1973	1900	1881	1923	1845	1827	1927	1900
Adj Flow Rate, veh/h	154	572	0	312	613	300	193	578	0	281	645	174
Adj No. of Lanes	1	1	0	1	1	0	1	2	1	1	2	0
Peak Hour Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Percent Heavy Veh, %	4	4	4	0	1	1	1	4	3	4	4	4
Cap, veh/h	234	740	0	410	526	257	161	572	246	238	580	156
Arrive On Green	0.11	0.39	0.00	0.14	0.42	0.42	0.09	0.16	0.00	0.14	0.20	0.20
Sat Flow, veh/h	1740	1920	0	1810	1252	613	1792	3654	1568	1740	2854	769
Grp Volume(v), veh/h	154	572	0	312	0	913	193	578	0	281	414	405
Grp Sat Flow(s),veh/h/ln	1740	1920	0	1810	0	1865	1792	1827	1568	1740	1831	1792
Q Serve(g_s), s	8.5	39.1	0.0	14.8	0.0	63.0	13.5	23.5	0.0	20.5	30.5	30.5
Cycle Q Clear(g_c), s	8.5	39.1	0.0	14.8	0.0	63.0	13.5	23.5	0.0	20.5	30.5	30.5
Prop In Lane	1.00		0.00	1.00		0.33	1.00		1.00	1.00		0.43
Lane Grp Cap(c), veh/h	234	740	0	410	0	783	161	572	246	238	372	364
V/C Ratio(X)	0.66	0.77	0.00	0.76	0.00	1.17	1.20	1.01	0.00	1.18	1.11	1.11
Avail Cap(c_a), veh/h	234	740	0	410	0	783	161	572	246	238	372	364
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	1.00	0.00	1.00	0.00	1.00	1.00	1.00	0.00	1.00	1.00	1.00
Uniform Delay (d), s/veh	38.6	40.4	0.0	28.2	0.0	43.5	68.3	63.2	0.0	64.8	59.8	59.8
Incr Delay (d2), s/veh	13.7	7.7	0.0	12.5	0.0	88.1	133.6	40.0	0.0	116.4	80.1	81.2
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	7.1	22.2	0.0	8.7	0.0	51.6	12.7	15.0	0.0	17.5	23.7	23.3
LnGrp Delay(d),s/veh	52.3	48.1	0.0	40.7	0.0	131.6	201.9	103.3	0.0	181.1	139.8	141.0
LnGrp LOS	D	D		D		F	F	F		F	F	F
Approach Vol, veh/h		726			1225			771			1100	
Approach Delay, s/veh		49.0			108.5			128.0			150.8	
Approach LOS		D			F			F			F	

Timer	1	2	3	4	5	6	7	8
Assigned Phs	1	2	3	4	5	6	7	8
Phs Duration (G+Y+Rc), s	28.2	64.8	20.0	37.0	23.0	70.0	27.0	30.0
Change Period (Y+Rc), s	7.0	7.0	6.5	6.5	7.0	7.0	6.5	6.5
Max Green Setting (Gmax), s	21.2	57.8	13.5	30.5	16.0	63.0	20.5	23.5
Max Q Clear Time (g_c+I1), s	16.8	0.0	15.5	0.0	10.5	0.0	22.5	0.0
Green Ext Time (p_c), s	0.4	0.0	0.0	0.0	0.2	0.0	0.0	0.0

Intersection Summary	
HCM 2010 Ctrl Delay	113.3
HCM 2010 LOS	F

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Exhibit 24 – U.S. 30/Orchard Rd. Stage 2 PM Peak Hour Queue Analysis

HCM 2010 Signalized Intersection Summary — Timing Plan: AM

21: Orchard & US 30 — Phase 3 Constuction - EB & WB TH-RT

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Volume (veh/h)	277	689	127	113	304	267	58	623	412	246	425	57
Number	5	2	12	1	6	16	3	8	18	7	4	14
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Adj Sat Flow, veh/h/ln	1863	1926	1900	1743	1851	1900	1759	1887	1863	1792	1869	1759
Adj Flow Rate, veh/h	277	689	0	113	304	229	58	623	0	246	425	0
Adj No. of Lanes	1	1	0	1	1	0	1	3	1	1	3	1
Peak Hour Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Percent Heavy Veh, %	2	4	4	9	9	9	8	6	2	6	7	8
Cap, veh/h	395	799	0	305	394	297	128	666	205	252	1024	300
Arrive On Green	0.13	0.41	0.00	0.12	0.40	0.40	0.08	0.13	0.00	0.15	0.20	0.00
Sat Flow, veh/h	1774	1926	0	1660	981	739	1675	5151	1583	1707	5103	1495
Grp Volume(v), veh/h	277	689	0	113	0	533	58	623	0	246	425	0
Grp Sat Flow(s),veh/h/ln	1774	1926	0	1660	0	1720	1675	1717	1583	1707	1701	1495
Q Serve(g_s), s	12.2	45.6	0.0	4.9	0.0	37.6	4.6	16.8	0.0	20.1	10.2	0.0
Cycle Q Clear(g_c), s	12.2	45.6	0.0	4.9	0.0	37.6	4.6	16.8	0.0	20.1	10.2	0.0
Prop In Lane	1.00		0.00	1.00		0.43	1.00		1.00	1.00		1.00
Lane Grp Cap(c), veh/h	395	799	0	305	0	691	128	666	205	252	1024	300
V/C Ratio(X)	0.70	0.86	0.00	0.37	0.00	0.77	0.45	0.94	0.00	0.97	0.41	0.00
Avail Cap(c_a), veh/h	395	799	0	305	0	691	128	666	205	252	1024	300
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	1.00	0.00	1.00	0.00	1.00	1.00	1.00	0.00	1.00	1.00	0.00
Uniform Delay (d), s/veh	25.7	37.3	0.0	25.7	0.0	36.3	61.8	60.4	0.0	59.4	48.8	0.0
Incr Delay (d2), s/veh	10.0	11.8	0.0	3.4	0.0	8.2	11.1	22.2	0.0	50.5	1.2	0.0
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	6.9	26.7	0.0	2.5	0.0	19.3	2.5	9.3	0.0	13.0	4.9	0.0
LnGrp Delay(d),s/veh	35.7	49.1	0.0	29.1	0.0	44.5	73.0	82.6	0.0	109.9	50.0	0.0
LnGrp LOS	D	D		C		D	E	F		F	D	
Approach Vol, veh/h		966			646			681			671	
Approach Delay, s/veh		45.3			41.8			81.8			72.0	
Approach LOS		D			D			F			E	

Timer	1	2	3	4	5	6	7	8
Assigned Phs	1	2	3	4	5	6	7	8
Phs Duration (G+Y+Rc), s	23.1	65.1	17.2	34.6	25.0	63.2	27.2	24.6
Change Period (Y+Rc), s	7.0	7.0	6.5	6.5	7.0	7.0	6.5	6.5
Max Green Setting (Gmax), s	16.1	58.1	10.7	28.1	18.0	56.2	20.7	18.1
Max Q Clear Time (g_c+I1), s	6.9	0.0	6.6	0.0	14.2	0.0	22.1	0.0
Green Ext Time (p_c), s	0.2	0.0	0.0	0.0	0.3	0.0	0.0	0.0

Intersection Summary	
HCM 2010 Ctrl Delay	59.0
HCM 2010 LOS	E

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Exhibit 25 – U.S. 30/Orchard Rd. Stage 3 AM Peak Hour Queue Analysis

HCM 2010 Signalized Intersection Summary
21: Orchard & US 30

Timing Plan: PM
Phase 3 Construction - EB & WB TH-RT

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Volume (veh/h)	154	572	123	312	613	322	193	578	248	281	645	198
Number	5	2	12	1	6	16	3	8	18	7	4	14
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Adj Sat Flow, veh/h/ln	1827	1920	1900	1900	1973	1900	1881	1923	1845	1827	1923	1845
Adj Flow Rate, veh/h	154	572	0	312	613	0	193	578	0	281	645	0
Adj No. of Lanes	1	1	0	1	1	0	1	3	1	1	3	1
Peak Hour Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Percent Heavy Veh, %	4	4	4	0	1	1	1	4	3	4	4	3
Cap, veh/h	390	772	0	450	883	0	211	570	170	274	777	232
Arrive On Green	0.11	0.40	0.00	0.15	0.45	0.00	0.12	0.11	0.00	0.16	0.15	0.00
Sat Flow, veh/h	1740	1920	0	1810	1973	0	1792	5250	1568	1740	5250	1568
Grp Volume(v), veh/h	154	572	0	312	613	0	193	578	0	281	645	0
Grp Sat Flow(s),veh/h/ln	1740	1920	0	1810	1973	0	1792	1750	1568	1740	1750	1568
Q Serve(g_s), s	7.2	38.1	0.0	13.6	37.4	0.0	16.0	16.3	0.0	23.6	17.9	0.0
Cycle Q Clear(g_c), s	7.2	38.1	0.0	13.6	37.4	0.0	16.0	16.3	0.0	23.6	17.9	0.0
Prop In Lane	1.00		0.00	1.00		0.00	1.00		1.00	1.00		1.00
Lane Grp Cap(c), veh/h	390	772	0	450	883	0	211	571	170	274	777	232
V/C Ratio(X)	0.39	0.74	0.00	0.69	0.69	0.00	0.91	1.01	0.00	1.03	0.83	0.00
Avail Cap(c_a), veh/h	390	772	0	450	883	0	211	571	170	274	777	232
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	1.00	0.00	1.00	1.00	0.00	1.00	1.00	0.00	1.00	1.00	0.00
Uniform Delay (d), s/veh	23.7	38.2	0.0	25.4	33.2	0.0	65.4	66.8	0.0	63.2	62.1	0.0
Incr Delay (d2), s/veh	3.0	6.3	0.0	8.6	4.5	0.0	42.7	41.0	0.0	61.4	10.0	0.0
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	3.7	21.5	0.0	13.2	21.4	0.0	10.4	10.0	0.0	16.0	9.4	0.0
LnGrp Delay(d),s/veh	26.7	44.5	0.0	34.0	37.7	0.0	108.1	107.9	0.0	124.6	72.1	0.0
LnGrp LOS	C	D		C	D		F	F		F	E	
Approach Vol, veh/h		726			925			771			926	
Approach Delay, s/veh		40.8			36.5			107.9			88.0	
Approach LOS		D			D			F			F	

Timer	1	2	3	4	5	6	7	8
Assigned Phs	1	2	3	4	5	6	7	8
Phs Duration (G+Y+Rc), s	29.8	67.3	24.2	28.7	23.0	74.1	30.1	22.8
Change Period (Y+Rc), s	7.0	7.0	6.5	6.5	7.0	7.0	6.5	6.5
Max Green Setting (Gmax), s	22.8	60.3	17.7	22.2	16.0	67.1	23.6	16.3
Max Q Clear Time (g_c+I1), s	15.6	0.0	18.0	0.0	9.2	0.0	25.6	0.0
Green Ext Time (p_c), s	0.5	0.0	0.0	0.0	0.2	0.0	0.0	0.0

Intersection Summary	
HCM 2010 Ctrl Delay	68.1
HCM 2010 LOS	E

EFK Moen, LLC
M. Huebbe, P.E.

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Exhibit 26 – U.S. 30/Orchard Rd. Stage 3 PM Peak Hour Queue Analysis

U.S. Route 30/Orchard Road Intersection Delay Analysis Worksheet

AM Peak Period											
Movement	Existing		TCP Strategy #1 Stage 1			TCP Strategy #1 Stage 2			TCP Strategy #1 Stage 3		
	Delay (s/veh)	LOS	Delay (s/veh)	LOS	Delay Δ (s/veh)	Delay (s/veh)	LOS	Delay Δ (s/veh)	Delay (s/veh)	LOS	Delay Δ (s/veh)
EBL											
EBT											
EBR											
EB Total	35.8	D	71.2	E	35.4	51.7	D	15.9	45.3	D	9.5
WBL											
WBT											
WBR											
WB Total	22.3	C	42.8	D	20.5	48.3	D	26.0	41.8	D	19.5
NBL											
NBT											
NBR											
NB Total	34.8	C	83.6	F	48.8	108.2	F	73.4	81.8	F	47.0
SBL											
SBT											
SBR											
SB Total	29.1	C	67.5	E	38.4	81.2	F	52.1	72.0	E	42.9
INT Total	31.6	C	67.9	E	36.3	70.8	E	39.2	59.0	E	27.4

PM Peak Period											
Movement	Existing		TCP Strategy #1 Stage 1			TCP Strategy #1 Stage 2			TCP Strategy #1 Stage 3		
	Delay (s/veh)	LOS	Delay (s/veh)	LOS	Delay Δ (s/veh)	Delay (s/veh)	LOS	Delay Δ (s/veh)	Delay (s/veh)	LOS	Delay Δ (s/veh)
EBL											
EBT											
EBR											
EB Total	45.0	D	61.6	E	16.6	49.0	D	4.0	40.8	D	-4.2
WBL											
WBT											
WBR											
WB Total	43.8	D	97.9	F	54.1	108.5	F	64.7	36.5	D	-7.3
NBL											
NBT											
NBR											
NB Total	37.9	D	111.6	F	73.7	128.0	F	90.1	107.9	F	70.0
SBL											
SBT											
SBR											
SB Total	53.6	D	140.3	F	86.7	150.8	F	97.2	88.0	F	34.4
INT Total	45.2	D	104.8	F	59.6	113.3	F	68.1	68.1	E	22.9

Exhibit 27 – U.S. Route 30/Orchard Road Intersection Delay Analysis Worksheet

U.S. Route 30/Orchard Road Intersection Queue Analysis Worksheet

	AM Peak Period											
	Movement	TCP Strategy #1 Stage 1		TCP Strategy #1 Stage 2		TCP Strategy #1 Stage 3					
		%ile Back of Q(50%) (Veh./Ln.)	ΔQ (mi.)	%ile Back of Q(50%) (Veh./Ln.)	ΔQ (mi.)	%ile Back of Q(50%) (Veh./Ln.)	ΔQ (mi.)	%ile Back of Q(50%) (Veh./Ln.)	ΔQ (mi.)	%ile Back of Q(50%) (Veh./Ln.)	ΔQ (mi.)
EB	EBL	7.2	0.027	8.0	0.030	6.9	0.026				
	EBT	0.0	0.000	29.4	0.111	26.7	0.101				
	EBR	41.2	0.156	0.0	0.000	0.0	0.000				
WB	WBL	2.9	0.011	2.9	0.011	2.5	0.009				
	WBT	0.0	0.000	0.0	0.000	0.0	0.000				
	WBR	20.1	0.076	21.7	0.082	19.3	0.073				
NB	NBL	2.1	0.008	2.7	0.010	2.5	0.009				
	NBT	15.6	0.059	16.4	0.062	9.3	0.035				
	NBR	5.7	0.022	0.0	0.000	0.0	0.000				
SB	SBL	11.8	0.045	14.2	0.054	13.0	0.049				
	SBT	8.8	0.033	9.2	0.035	4.9	0.019				
	SBR	9.1	0.034	9.4	0.036	0.0	0.000				

	PM Peak Period											
	Movement	TCP Strategy #1 Stage 1		TCP Strategy #1 Stage 2		TCP Strategy #1 Stage 3					
		%ile Back of Q(50%) (Veh./Ln.)	ΔQ (mi.)	%ile Back of Q(50%) (Veh./Ln.)	ΔQ (mi.)	%ile Back of Q(50%) (Veh./Ln.)	ΔQ (mi.)	%ile Back of Q(50%) (Veh./Ln.)	ΔQ (mi.)	%ile Back of Q(50%) (Veh./Ln.)	ΔQ (mi.)
EB	EBL	7.0	0.027	7.1	0.027	3.7	0.014				
	EBT	0.0	0.000	22.2	0.084	21.5	0.081				
	EBR	31.4	0.119	0.0	0.000	0.0	0.000				
WB	WBL	15.0	0.057	8.7	0.033	13.2	0.050				
	WBT	0.0	0.000	0.0	0.000	21.4	0.081				
	WBR	49.1	0.186	51.6	0.195	0.0	0.000				
NB	NBL	6.9	0.026	12.7	0.048	10.4	0.039				
	NBT	15.0	0.057	15.0	0.057	10.0	0.038				
	NBR	2.9	0.011	0.0	0.000	0.0	0.000				
SB	SBL	8.4	0.032	17.5	0.066	16.0	0.061				
	SBT	23.7	0.090	23.7	0.090	9.4	0.036				
	SBR	23.3	0.088	23.3	0.088	0.0	0.000				

Exhibit 28 – U.S. Route 30/Orchard Road Intersection Queue Analysis Worksheet

Illinois Department of Transportation

Request for Exception to Compliance with the Work Zone Safety and Mobility Rule

Region No. 1 Route: FAP 349 (U.S. Route 30)

District No: 1 County: Kane & Kendall Program Yr.: UNFUNDED

Section No: TBD Project No.:

ADT: 27000 to 47000 DHV: 2,073 to 3,796 Design Speed Limit: 50 mph

The stated mobility goals of the Work Zone Safety and Mobility Policy are:

1. Delays caused by work zones should not exceed more than 5 minutes per mile of project length with a maximum of 30 minutes above the normal recurring traffic delay.
2. Queues caused by work zones should be no more than 1.5 miles beyond pre-existing queues.

Please check the appropriate box explaining the exception requested below:

☐ Significant Route Project (ADT under 35,000): based on current impact analysis and construction strategies, the stated goals are not expected to be met. See attachments for details. **(IDOT - District 1 Traffic Operations approval required)**

☐ Significant Route Project (ADT over 35,000): based on current impact analysis and construction strategies, the stated goals are not expected to be met. See attachments for details. **(IDOT and FHWA approval required)**

☒ Project is expected to meet the goals of the policy. **(IDOT – District 1 Traffic Operations approval is required)**

Attachments shall:

1. Provide a brief description of the project.
2. Include a brief discussion of strategies considered and the reasons these strategies will not be utilized, which could include a listing of pros/cons, cost, delays and queues.
3. Describe the recommended strategies which will be utilized identifying if possible the delays and queues. The mitigation measures to reduce the impacts on the project will be fully described

Submitted by District Representative: Rose Brown Date: 2-10-16

Approved by:

Bureau of Safety Engineering	Bureau of Design and Environment	Bureau of Local Roads and Streets	D1-Bureau of Traffic Operations
Date	Date	Date	5/12/16 Date

Federal Highway Administration: Dean G Mentzer Date: 7/14/16

Attachment for Request for Exception to Compliance with the Work Zone Safety and Mobility Rule:

Route:	FAP 349 (U.S. Route 30)
Section:	TBD
Location:	IL 47 to IL 31
County:	Kane / Kendall
Contract:	TBD
Letting:	TBD
Scope of work:	Widening & reconstruction of existing 2 lane facility to provide two lanes in each direction with raised median, turn lanes, and outside shoulders flanked by curb and gutter. Shared-use paths and sidewalks will also be provided.
Facility type:	Other Principal Arterial (Strategic Regional Arterial)
Area type:	Mixed - Agricultural/Developing Residential and Commercial
Project length:	4.4 miles
Project duration:	2 years estimated
Program cost:	$55.6 million
DA/TMP Approval	

Temporary Traffic Control Plan: Strategies utilized (Applicable methods are marked):
Existing number of lanes: One lane in each direction.

Number of lanes maintained during construction: One lane in each direction.

- ☒ Use of temporary widening
- ☐ Use of night work
- ☒ Permanent lane closures
- ☒ Temporary/ Restricted Lane closure
- ☐ Incentive/Disincentive clauses
- ☐ Railroad coordination
- ☐ Restrictions for special events
- ☐ Improving and signing alternate routes
- ☐ Detour
- ☒ Pedestrian accommodations
- ☐ Other (Specify)_____

Comments:

Transportation Operation Plan: Strategies utilized (Applicable methods are marked):

- ☒ Speed limit reduction
- ☒ Increased penalties for WZ violations
- ☒ Signal Coordination
- ☐ Turn restrictions
- ☒ Coord. w/adjacent construction sites
- ☐ Parking restrictions
- ☐ State Police Hirebacks
- ☒ Incidence response coordination
- ☐ Other (Specify): _____

Comments:

Public Information Plan: Strategies utilized (Applicable methods are marked):

- ☒ Media: Press Release/Web Page
- ☒ Changeable Message Signs
- ☐ Static Message Board
- ☒ Brochures/Flyers
- ☒ Other (Specify): Public Pre-Construction Meeting

Comments:

S-6

Design Criteria Checklist & Design Exceptions

Hutchison Engineering, Inc.

MEMORANDUM

TO: THE RECORD

FROM: Dan Draper

DATE: January 19, 2015

SUBJECT: US 30
IL 47 to IL 31
Kane and Kendall Counties
P-91-403-11
PTB 159 / 006
Design Criteria - REVISED

Design criteria have been developed for the US 30 project. The project extends from IL 47 to IL 31 and will include each intersecting side road. The BDE Design Criteria Checklist form was used for US 30 and for the north portion of Orchard Avenue. For the remaining side roads, the improvements are anticipated to be limited to transitioning from US 30 improvements to the existing side road typical section. If more extensive improvements are necessary, they will follow the Bureau of Local Roads and Streets policies for the design speeds and classifications specified below.

Functional classifications were determined from mapping provided on the IDOT website. Intersecting side road classifications were classified even further based on classifications from Chapter 32 of the BLR Manual.

The design criteria needed for US 30 and the north leg of Orchard Rd. will be determined in the following forms.

Other Principal Arterial
US 30 and Orchard Road (North Leg)

US 30 is an Other Principal Arterial and a Strategic Regional Arterial. From Orchard Rd. west to IL 47, US 30 is a rural SRA. From Orchard Rd. east to IL 31, US 30 is a suburban SRA. Although US 30 is classified as rural SRA west of Orchard Road, the land use has changed since the original SRA report to include more residential development. Due to the potential impacts of the rural SRA cross-section on the new development, the Village of Montgomery and other stakeholders expressed strong objections during the CSS process. In response to those

concerns the Project Study Group agreed to proceed with suburban SRA criteria for the entire US 30 study corridor. A 50 mph design speed will be utilized instead of the policy 45 mph for added safety for this roadway transitioning from a high speed rural section to a lower speed suburban section.

The north leg of Orchard Rd. is also considered an Other Principal Arterial and a Strategic Regional Arterial. Orchard Rd. is classified as a suburban SRA.

Suburban Minor Arterial
Gordon Road (North Leg) and Orchard Road (South Leg)

The north leg of Gordon Rd. and the south leg of Orchard Rd. are both classified as Minor Arterials. Orchard rd. is posted at 45 mph and Gordon Rd. is posted at 35 mph. Gordon Rd. is lower due to being located in a more residential area. The design speed range for this classification is 40 – 50 mph, so a design speed of 40 mph was selected for Gordon Rd. and a 45 mph design speed was selected for Orchard Rd.

Rural Two-Lane Collector
Bertram Road and Dickson Road

Bertram Rd. and Dickson Rd. are both classified as Major Collectors. The design ADT for each road will be greater than 2000, which determined which column to use in Chapter 32 of the BLR Manual. Both roads appear to be unposted, but a 50 mph design speed was selected. The same design criteria can be applied to both roads.

Urban Two-Way Collector
Gordon Road (South Leg), Lakewood Creek Drive, Griffin Road and Old Baseline Rd.

The south leg of Gordon Rd., Lakewood Creek Dr., Griffin Rd. and Old Baseline are all classified as Major Collectors. Griffin Rd. was not listed on the IDOT map website, so an assumption of a major collector was made based on similar side roads. Lakewood Creek Dr. and Griffin Rd. are posted at 30 mph. Gordon Rd. is posted at 35 mph and Old Baseline Rd. is unposted. A design speed of 40 mph was selected for Gordon Rd. to match the design speed of the north leg. A design speed of 30 mph was selected for the remaining side roads.

Urban Local Streets
Prescott Drive, Blackberry Road and Horseman Trail

Each road has an unposted speed limit. Prescott Dr. and Blackberry Rd. both are located in residential areas. Horseman Tr. is located in a shopping area. A 30 mph design speed was selected for each side road. This is the maximum design speed allowed for an urban local street. An ADT was not listed for Prescott Dr. or Blackberry Rd but Horseman Tr. had an ADT of 1000. Design of each of these side roads will be based on that count.

Illinois Department of Transportation

DESIGN CRITERIA CHECKLIST

1. **Application**

The designer can use the Level One and Level Two Design Criteria Checklists to summarize compliance with design criteria and assist in the documentation of the adherence of the proposed project design to the design criteria. These checklists become a part of the permanent project file.

2. **Level One Design Exceptions**

A Level One design exception involves one of the controlling design criteria. Check the appropriate boxes on the "Level One Design Criteria Checklist" (p. 3). The determination of whether or not the proposed project design meets the IDOT controlling design criteria is dependent upon the project scope of work. If, for example, a 3R non-freeway project is under design, Chapter 49 will apply. For any Level One element which does not meet IDOT design criteria, the designer should prepare a statement for use at monthly coordination meetings which:

- identifies the design element,
- identifies IDOT design criteria,
- discusses the proposed design, and
- provides justification for the design exception.

The written summary of the discussion at the coordination meeting will document the justification for a design exception. Include the minutes of the meeting describing the project in the Phase I engineering report.

3. **Level Two Design Exceptions**

A Level Two design exception does not involve one of the controlling design criteria. Check the appropriate boxes on pp. 4-10 of the "Design Criteria Checklist." The determination of whether or not the proposed project design meets IDOT design criteria is dependent upon the project scope of work. If, for example, a 3R non-freeway project is under design, Chapter 49 will apply. For any Level Two element which does not meet IDOT design criteria, the designer should prepare a statement similar to that for a Level One exception.

It should be noted that Level Two design exceptions may not require as much justification to receive concurrence of the exception. The written summary of the discussion at the coordination meeting will document the justification for a design exception.

4. **Project Identification**

State Job No.: P-91-403-11
Marked Route No.: US 30
Functional Classification: SRA Suburban (US 30)
Highway Type:
Project Location:
US 30 from IL 47 to IL 31

County/City: Kane/Kendall Counties
Project Length: 4.4 Miles

5. **Project Scope of Work**

a. Is project located on the NHS? ☒ Yes ☐ No

b. Check the appropriate box. See Section 31-6 for definitions.

☐ New construction
☒ *Reconstruction
☐ 3R (non-freeway)
☐ *3R (freeway)

c. Provide a brief project description:

Reconstruction of US 30 from IL 47 to IL 31. There will be one structure widening/replacement over Blackberry Creek, just west of Orchard Ave.

**Note: May include "Allowed to Remain in Place" criteria.*

6. **Evaluating Exceptions**

When evaluating exceptions to design criteria, the primary considerations are:

- safety,
- capacity,
- compatibility with adjacent sections,
- time to construction of ultimate improvement, and
- construction costs.

7. **District Coordination Meetings**

Has project been discussed at district coordination meetings? ☒ Yes ☐ No

Date: 08/09/2016 & 08/09/2017

Date: 08/09/2017

Level One Design Criteria Checklist

Route: US 30 (Suburban) Section: TBD County: Kane/Kendall

Design Criteria for Mainline Only (Provide numerical value for project, where indicated.)	Does the proposed design meet IDOT criteria?		
	Yes	No*	N/A
1. Design Speed: 50 mph (km/h) BDE Fig. 46-3.E	☒	☐	☐
2. Lane Widths: 12' feet (meters) BDE Fig. 46-3.E	☒	☐	☐
3. Through Travel Lane Cross - Slopes in Percent (%): BDE Fig. 46-3.E			
Lane 1 2.0%	☒	☐	☐
Lane 2 2.0%	☒	☐	☐
Lane 3	☐	☐	☒
4. Shoulder Widths: _____ feet (meters) (inside)	☐	☐	☒
8 feet (meters) (outside)	☒	☐	☐
5. Horizontal Curvature (Minimum Radius for selected design speed) 925' feet (meters)	☒ BDE Fig. 32-2.F	☐	☐
6. Superelevation Rates (e_{max} = 4.0 %) BDE Fig. 46-3.F	☒	☐	☐
7. Stopping Sight Distance at Crest Vertical Curves (Level SSD for Passenger Cars) 360' BDE Fig. 33-4.A	☒	☐	☐
8. Stopping Sight Distance at Sag Vertical Curves (Level SSD for Passenger Cars) 360' BDE Fig. 33-4.A	☒	☐	☐
9. Stopping Sight Distance on Inside of Horizontal Curves (Level SSD for Passenger Cars) 360' BDE Fig. 32-4.A	☒	☐	☐
10. Clear Roadway Bridge Widths: 52' plus median feet (meters) BDE 46-3.E	☒	☐	☐
11. Structural Capacity of Bridges: HS-20 BDE Fig. 46-3.E	☒	☐	☐
12. Vertical Clearances: 14.75' BDE Fig. 46-3.E	☐	☐	☒
13. Maximum Grades: 6.0% (Level) BDE Fig. 46-3.F	☒	☐	☐
14. Accessibility Criteria for Disabled Persons BDE 58-1	☒	☐	☐

* Justification for any design exceptions must be discussed at monthly coordination meetings held in each district and must be documented in the Phase I report.

Note: Numbers 1, 2, 3, and 4 apply throughout the project. The remaining criteria (e.g., superelevation rates) apply to specific sites within the project limits.

Date: 8/9/2017

Level Two Design Criteria Checklist

Route: US 30 (Suburban) Section: TBD County: Kane/Kendall

Design Criteria		Does the proposed design meet IDOT criteria?		
		Yes	No*	N/A
1. Design Speed:				
a. Level of Service (mainline) LOS C or D BDE Fig. 46-3.E		☒	☐	☐
b. SSD application at horizontal curves (downgrade adjusted SSD used)	Horz. 425' BDE Fig. 32-4.A	☒	☐	☐
c. SSD application for vertical curves (downgrade adjusted SSD used)	Vert. 425' BDE Fig. 33-4.A	☒	☐	☐
d. Truck SSD (level) (at specific sites) BDE 31-3.01c		☒	☐	☐
2. Horizontal Alignment (Mainline)				
a. Traveled way widening		☐	☐	☒
b. Superelevation transition lengths BDE Fig. 32-3.E		☒	☐	☐
c. Superelevation distribution between tangent and curve 2/3 on, 1/3 off BDE Fig. 32-3.E		☒	☐	☐
d. "Breakover" of outside shoulder on super-elevated curves 8.0% BDE 32-3.04a		☒	☐	☐
e. Relative longitudinal slope of shoulder to edge of traveled way on high side of S.E. curve adjacent to bridge with S.E. BDE 32-3.04a		☒	☐	☐
f. Superelevation development at reverse curves BDE 32-3.06		☐	☐	☒
g. Is superelevation transition length located off of bridges and bridge approach pavements? BDE 32-3.07		☒	☐	☐

Date: 08/09/2017

Design Criteria	Does the proposed design meet IDOT criteria?		
	Yes	No*	N/A
3. Vertical Alignment (Mainline)			
a. Minimum grades considering drainage 0.5% BDE Fig. 46-3.F	☐	☒	☐
b. Critical length of grade	☐	☐	☒
c. Warrants for truck-climbing lanes	☐	☐	☒
d. Design criteria for truck-climbing lanes (e.g., lane width and shoulder width)	☐	☐	☒
e. Minimum length of vertical curves for selected design speed 150' (3x Design Speed) BDE 33-4.01a, 4.02a	☒	☐	☐
f. Maximum length of vertical curves (drainage of curbed facilities and bridges) K = 167 Max. BDE 33-4.01d, 4.02e	☒	☐	☐
4. Cross Section Elements (Mainline)			
a. Design of parking lanes: • Cross-slope _____ % • Width _____ feet (meters)	☐ ☐	☐ ☐	☒ ☒
b. Design of sidewalks: BDE 58-1.06 • Cross-slope 2.0 % • Width 5' feet (meters) • Longitudinal slopes 5.0 %	☒ ☒ ☒	☐ ☐ ☐	☐ ☐ ☐
c. Type of curb and gutter used on median: B-6.24 BDE 34-2.04c	☒	☐	☐
d. Drainage of raised curb medians: BDE 34-3.03c • Direction of flow of median surface or pavement _____ • Direction of cross-slope on gutter _____ %	☒ ☒	☐ ☐	☐ ☐
e. Type of curb and gutter used along outside edges of pavement M-4.24 BDE 34-2.04c	☒	☐	☐
f. TWLTL width: • Flush type _____ feet (meters) • Traversable type _____ feet (meters)	☐ ☐	☐ ☐	☒ ☒

Date: 08/09/2017

Design Criteria	Does the proposed design meet IDOT criteria?		
	Yes	No*	N/A
g. Median widths: BDE Fig. 46-3.E • Urban _____ feet (meters) • Suburban 18' - 30' feet (meters) • Rural _____ feet (meters)	 ☐ ☐ ☐	 ☐ ☒ ☐	 ☒ ☐ ☒
h. Shoulder cross slopes 4.0% % BDE Fig. 46-3.E	☒	☐	☐
i. Fill slopes: 1:3 (V:H) BDE Fig. 46-3.E	☒	☐	☐
j. Outside roadway ditch: BDE Fig. 46-3.E • Slopes 1:6 • Depth _____ • Widths 4 Median ditch: • Widths _____ • Slopes 1:6 • Depth _____	 ☐ ☐ ☐ ☐	 ☐ ☐ ☐ ☐	 ☒ ☒ ☒ ☒
k. Cross-section transitions into bridges/ underpasses BDE 32-3.07	☐	☐	☒
l. Use of mountable curbs (V > 45 mph (70 km/h))	☐	☐	☒
m. Cross-section transition details (e.g., four-lane to two-lane)	☐	☐	☒
n. Design of frontage roads: • Des. speed _____ • Pvmt. width _____ • Shld. width _____ • Cross-slopes _____ • Super. rate _____ • Ditch slopes _____	 ☐ ☐ ☐	 ☐ ☐ ☐	 ☒ ☒ ☒
5. Roadside Safety			
a. Horizontal clearances: BDE Fig. 38-3.A • Clear zones on tangent sections 18' - 20' • Clear zones on outside of horizontal curves BDE Fig. 38-3.D	 ☒ ☐	 ☐ ☐	 ☐ ☒
b. Barrier warrants BDE 38-4	☒	☐	☐
c. Barrier length of need BDE 38-4	☐	☒	☐
d. Deceleration criteria for impact attenuators BDE 38-8	☒	☐	☐

Date: 08/09/2017

Design Criteria	Does the proposed design meet IDOT criteria?		
	Yes	No*	N/A
6. Intersections			
a. Accommodation of design vehicle (Identify Vehicle) WB-65 BDE Fig. 36-1.R WB 55 for Arterial to Collector WB 50 for Local / SU for Residential	☒	☐	☐
b. Level of service: • Through Lanes LOS C BDE Fig. 46-3.E • Turn Lanes LOS C or D BDE Fig. 46-3.E	 ☐ ☐	 ☒ ☒	 ☐ ☐
c. Skew angle 15 Degrees BDE 36-1.05a	☒	☐	☐
d. Profiles < 3.0% Intersection Gradient BDE 36-1.06a	☒	☐	☐
e. Volume guidelines for turn-lanes: BDE 36-3.01 • Right-turns BDE 36-3.01a • Left turns BDE 36-3.01b	 ☒ ☒	 ☐ ☐	 ☐ ☐
f. Design of right-turn lanes BDE 36-3.04 Design of left-turn lanes BDE 36-3.03	☒ ☒	☐ ☐	☐ ☐
g. Turn-lane tapers BDE Fig. 36-3.I Approach Taper 50:1 Departure Taper 50:1 Bay Taper 15:1	 ☒ ☒ ☒	 ☐ ☐ ☐	 ☐ ☐ ☐
h. Turning roadway widths BDE 36-2.03	☐	☐	☒
i. Turn-lane lengths Deceleration (Rural) 435' 36-3.I Storage (Urban) 215' 36-3.02b	 ☒ ☒	 ☐ ☐	 ☐ ☐
j. Intersection sight distance: List criteria and type: 555' Passenger 700' Single Unit, 845' Semi BDE Fig. 36-6.E	☒	☐	☐
k. Median opening length: BDE 36-4.04b	☒	☐	☐
l. Minimum corner island size: 100 sq. ft. min. BDE 36-2.02	☒	☐	☐
m. Does right-turn radius accommodate design vehicle without encroachment? BDE 36-2.01c	☒	☐	☐
n. Driveway widths BDE 36-7 Illustration 3 Access to State Highways	☒	☐	☐

Date: 08/09/2017

Design Criteria	Does the proposed design meet IDOT criteria?		
	Yes	No*	N/A
o. Type of traffic control: BDE 46-3.09 • Two-way stop Nonsignalized • All-way stop • Traffic signals Actuated	 ☒ ☐ ☒	 ☐ ☐ ☐	 ☐ ☒ ☐
p. Is maximum grade exceeded on any approach? BDE 36-1.06a	☒	☐	☐
q. Max "e" for intersections on curve BDE 36-1.05b	☒	☐	☐
7. Interchanges			
a. Exit Terminal: Standard Type	☐	☐	☒
a. Exit Terminal: Design speed of first curve	☐	☐	☒
a. Exit Terminal: Are any exit terminals located on mainline horizontal curve?	☐	☐	☒
b. Entrance Terminal: Standard Type	☐	☐	☒
b. Entrance Terminal: Length of tangent after the entering curve	☐	☐	☒
b. Entrance Terminal: Design speed of entering curve	☐	☐	☒
c. Design speed of ramp proper: _____ mph (km/h)	☐	☐	☒
d. Design speed of crossroad: _____ mph (km/h)	☐	☐	☒
e. Maximum ramp grades: • Exit ramp _____ % • Entrance ramp _____ %	☐ ☐	☐ ☐	☒ ☒
f. Ramp pavement width	☐	☐	☒
g. Ramp shoulder widths • Left _____ • Right _____	☐ ☐	☐ ☐	☒ ☒
h. Horizontal ramp curvature in conjunction with selected design speeds	☐	☐	☒

Date: 08/09/2017

Design Criteria		Does the proposed design meet IDOT criteria?		
		Yes	No*	N/A
i. Superelevation development on ramps	Superelevation Rate	☐	☐	☒
	Transition Length	☐	☐	☒
	Distribution Between Tangent & Curve	☐	☐	☒
j. Vertical curvature compliance with selected design speed on ramp		☐	☐	☒
k. Length of access control at crossroad		☐	☐	☒
l. Type of traffic control at crossroad:				
• Stop signs		☐	☐	☒
• Traffic signals		☐	☐	☒
• Free flow		☐	☐	☒
m. Is length of crest vertical curve used on crossroad ≥ that required by the selected design speed of crossroad?		☐	☐	☒
n. Are crossroad approach grades through ramp/ crossroad intersections ≤ 2%?		☐	☐	☒
o. Are ramp/crossroad intersections located on a tangent section of crossroad alignment?		☐	☐	☒
p. Is decision sight distance available in advance of exit gore?		☐	☐	☒
q. Is clear recovery area available beyond gore nose?		☐	☐	☒
r. Level of service:				
• Exit terminal _____		☐	☐	☒
• Entrance terminal _____		☐	☐	☒
• Ramp proper _____		☐	☐	☒
• Weaving area _____		☐	☐	☒
• Ramp/crossroad intersection		☐	☐	☒

Date: 08/09/2017

Design Criteria			Does the proposed design meet IDOT criteria?		
			Yes	No*	N/A
s. Freeway lane drops	Location	Upgrade	☐	☐	☒
		Downgrade	☐	☐	☒
		Inside Lane	☐	☐	☒
		Outside Lane	☐	☐	☒
		At Exit Terminal	☐	☐	☒
		Beyond Exit Terminal	☐	☐	☒
	Taper Length		☐	☐	☒

Prepared By: Luke Zeller, Hutchison Engineering, Inc.
Designer (IDOT or Consultant)

*See Section 31-8 of *BDE Manual.*

Illinois Department of Transportation

Design Exception Request Project Identification

Key Route	Marked Route/Road Name	Contract #	State Job #
FAP 349	US Route 30/Baseline Road		P-91-403-11

Section	County(ies)	Municipality
	Kane and Kendall	

Local Agency	LRS Section #	Permit Applicant	Permit #

Project Limits

IL Route 47 to IL Route 31

Project Length	Current Posted Speed
4.4 miles	55 mph

Estimate of Cost	Functional Classification	Design Yr	Design Traffic ADT	Design Traffic DHV	
56,000,000	Strategic Regional Arterial	2040	50,000	AM 5,000	PM 5,000

On the NHS System?	Structure Numbers	Type of Project (Construction, Reconstruction, 3R, 3P, SMART, HSIP, etc.)
☒ Yes ☐ No	047-0029	Reconstruction

Brief Project Description

Reconstruction of 4.4 miles of US Route 30, including removal and replacement of the structure carrying US Route 30 over Blackberry Creek in Kane and Kendall Counties.

EXCEPTION DOCUMENTATION

Level of Exception ☐ **Level One** ☒ **Level Two**

Design Element for Which an Exception is Requested

Clearance between bike path and back of curb

Design Element Policy Value

5' per BDE Section 17-2.03(b)

Proposed Design Element Value

3'

Location(s) of Exception

US Route 30

Crash History and Potential of Exception Location(s)

373 total crashes between 2010 and 2014. 0 were related to this Design Exception. This intersection was not a 5% location for 2010 and 2014. Proposed scope of work will not improve the crash history at this location of the project.

Cost of Using Policy Value	Cost of Using Proposed Exception Value
$1,700,000.00	$1,500,000.00

Impacts Other Than Cost of Using Policy Value

Impacts to the Village of Montgomery and 4f properties.

Proposed Mitigation to Address Exception

None

Geometric Compatibility with Adjacent Sections

Yes

Potential Effects on Other Design Elements

None

Potential Impacts on Mobility or Traffic Operations

None

Summary of Justification for Exception

It was discussed with the District at an August 25, 2015 meeting that with the presence of 8' shoulders, the buffer space between the bike path and back of curb could be reduced to 3' to reduce impact to Village and 4f properties.

Coordination Meeting Date	Prepared By	Date
08/09/2016	Luke D. Zeller, Hutchison Engineering Inc.	08/08/2016

PAVEMENT/RESURFACING EXCEPTIONS

☐ **New Pavement** ☐ **Pavement Widening** ☐ **Resurfacing**

Design Period/ Expected Service Life	Design Year	Structural Design Traffic	%PV	%SU	%MU

Design Element Policy Value	Proposed Design Element Value

Location(s) of Exception

Cost of Using Policy Value	Cost of Using Proposed Element Value

Summary of Justification

Prepared By	Date

APPROVAL/DISAPPROVAL

BDE Approval Date

08/09/2016

FHWA Approval Date (Level One)

Illinois Department of Transportation

Design Exception Request Project Identification

Key Route	Marked Route/Road Name	Contract #	State Job #
FAP 349	US Route 30/Baseline Road		P-91-403-11

Section	County(ies)	Municipality
	Kane and Kendall	

Local Agency	LRS Section #	Permit Applicant	Permit #

Project Limits

IL Route 47 to IL Route 31

Project Length	Current Posted Speed
4.4 miles	55 mph

Estimate of Cost	Functional Classification	Design Yr	Design Traffic ADT	Design Traffic DHV	
56,000,000	Strategic Regional Arterial	2040	50,000	AM 5,000	PM 5,000

On the NHS System?	Structure Numbers	Type of Project (Construction, Reconstruction, 3R, 3P, SMART, HSIP, etc.)
☒ Yes ☐ No	047-0029	Reconstruction

Brief Project Description

Reconstruction of 4.4 miles of US Route 30, including removal and replacement of the structure carrying US Route 30 over Blackberry Creek in Kane and Kendall Counties.

EXCEPTION DOCUMENTATION

Level of Exception ☐ **Level One** ☒ **Level Two**

Design Element for Which an Exception is Requested

Approach Taper

Design Element Policy Value

1:40 per BLRS Figure 34-3.D

Proposed Design Element Value

1:14

Location(s) of Exception

NB and SB Prescott Drive

Crash History and Potential of Exception Location(s)

3 total crashes between 2010 and 2014. 0 were related to this Design Exception. This intersection was not a 5% location for 2010 and 2014. Proposed scope of work will not improve the crash history at this location of the project.

Cost of Using Policy Value	Cost of Using Proposed Exception Value
$800,000.00	$200,000.00

Impacts Other Than Cost of Using Policy Value

The project reconstruction limits on Prescott Drive would have to be extended south to accommodate policy taper rates.

Proposed Mitigation to Address Exception

None

Geometric Compatibility with Adjacent Sections

Yes

Potential Effects on Other Design Elements

None

Potential Impacts on Mobility or Traffic Operations

None

Summary of Justification for Exception

To minimize the project reconstruction limits on Prescott Drive and avoid any additional proposed ROW.

Coordination Meeting Date	Prepared By	Date
08/09/2016	Luke D. Zeller, Hutchison Engineering Inc.	08/08/2016

PAVEMENT/RESURFACING EXCEPTIONS

☐ **New Pavement** ☐ **Pavement Widening** ☐ **Resurfacing**

Design Period/ Expected Service Life	Design Year	Structural Design Traffic	%PV	%SU	%MU

Design Element Policy Value	Proposed Design Element Value

Location(s) of Exception

Cost of Using Policy Value	Cost of Using Proposed Element Value

Summary of Justification

Prepared By	Date

APPROVAL/DISAPPROVAL

BDE Approval Date

08/09/2016

FHWA Approval Date (Level One)

Illinois Department of Transportation

Design Exception Request Project Identification

Key Route	Marked Route/Road Name	Contract #	State Job #
FAP 349	US Route 30/Baseline Road		P-91-403-11

Section	County(ies)	Municipality
	Kane and Kendall	

Local Agency	LRS Section #	Permit Applicant	Permit #

Project Limits

IL Route 47 to IL Route 31

Project Length	Current Posted Speed
4.4 miles	55 mph

Estimate of Cost	Functional Classification	Design Yr	Design Traffic ADT	Design Traffic DHV	
56,000,000	Strategic Regional Arterial	2040	50,000	AM 5,000	PM 5,000

On the NHS System?	Structure Numbers	Type of Project (Construction, Reconstruction, 3R, 3P, SMART, HSIP, etc.)
☒ Yes ☐ No	047-0029	Reconstruction

Brief Project Description

Reconstruction of 4.4 miles of US Route 30, including removal and replacement of the structure carrying US Route 30 over Blackberry Creek in Kane and Kendall Counties.

EXCEPTION DOCUMENTATION

Level of Exception ☐ **Level One** ☒ **Level Two**

Design Element for Which an Exception is Requested

Approach Taper

Design Element Policy Value

1:40 per BLRS Figure 34-3.D

Proposed Design Element Value

1:19

Location(s) of Exception

NB Lakewood Creek Drive

Crash History and Potential of Exception Location(s)

11 total crashes between 2010 and 2014. 0 were related to this Design Exception. This intersection was not a 5% location for 2010 and 2014. Proposed scope of work will not improve the crash history at this location of the project.

Cost of Using Policy Value	Cost of Using Proposed Exception Value
$400,000.00	$100,000.00

Impacts Other Than Cost of Using Policy Value

The project reconstruction limits on Lakewood Creek Drive would have to be extended south to accommodate policy taper rates.

Proposed Mitigation to Address Exception

None

Geometric Compatibility with Adjacent Sections

Yes

Potential Effects on Other Design Elements

None

Potential Impacts on Mobility or Traffic Operations

None

Summary of Justification for Exception

To minimize the project reconstruction limits on Prescott Drive and avoid any additional proposed ROW.

Coordination Meeting Date	Prepared By	Date
08/09/2016	Luke D. Zeller, Hutchison Engineering Inc.	08/08/2016

PAVEMENT/RESURFACING EXCEPTIONS

☐ **New Pavement** ☐ **Pavement Widening** ☐ **Resurfacing**

Design Period/ Expected Service Life	Design Year	Structural Design Traffic	%PV	%SU	%MU

Design Element Policy Value	Proposed Design Element Value

Location(s) of Exception

Cost of Using Policy Value	Cost of Using Proposed Element Value

Summary of Justification

Prepared By	Date

APPROVAL/DISAPPROVAL

BDE Approval Date

08/09/2016

FHWA Approval Date (Level One)

Illinois Department of Transportation

Design Exception Request Project Identification

Key Route	Marked Route/Road Name	Contract #	State Job #
FAP 349	US Route 30/Baseline Road		P-91-403-11

Section	County(ies)	Municipality
	Kane and Kendall	

Local Agency	LRS Section #	Permit Applicant	Permit #

Project Limits

IL Route 47 to IL Route 31

Project Length	Current Posted Speed
4.4 miles	55 mph

Estimate of Cost	Functional Classification	Design Yr	Design Traffic ADT	Design Traffic DHV	
56,000,000	Strategic Regional Arterial	2040	50,000	AM 5,000	PM 5,000

On the NHS System?	Structure Numbers	Type of Project (Construction, Reconstruction, 3R, 3P, SMART, HSIP, etc.)
☒ Yes ☐ No	047-0029	Reconstruction

Brief Project Description

Reconstruction of 4.4 miles of US Route 30, including removal and replacement of the structure carrying US Route 30 over Blackberry Creek in Kane and Kendall Counties.

EXCEPTION DOCUMENTATION

Level of Exception ☐ **Level One** ☒ **Level Two**

Design Element for Which an Exception is Requested

Approach Taper

Design Element Policy Value

1:40 per BLRS Figure 34-3.D

Proposed Design Element Value

1:21

Location(s) of Exception

SB Lakewood Creek Drive

Crash History and Potential of Exception Location(s)

11 total crashes between 2010 and 2014. 0 were related to this Design Exception. This intersection was not a 5% location for 2010 and 2014. Proposed scope of work will not improve the crash history at this location of the project.

Cost of Using Policy Value	Cost of Using Proposed Exception Value
$400,000.00	$100,000.00

Impacts Other Than Cost of Using Policy Value

The project reconstruction limits on Lakewood Creek Drive would have to be extended south to accommodate policy taper rates.

Proposed Mitigation to Address Exception

None

Geometric Compatibility with Adjacent Sections

Yes

Potential Effects on Other Design Elements

None

Potential Impacts on Mobility or Traffic Operations

None

Summary of Justification for Exception

To minimize the project reconstruction limits on Prescott Drive and avoid any additional proposed ROW.

Coordination Meeting Date	Prepared By	Date
08/09/2016	Luke D. Zeller, Hutchison Engineering Inc.	08/08/2016

PAVEMENT/RESURFACING EXCEPTIONS

☐ **New Pavement** ☐ **Pavement Widening** ☐ **Resurfacing**

Design Period/ Expected Service Life	Design Year	Structural Design Traffic	%PV	%SU	%MU

Design Element Policy Value	Proposed Design Element Value

Location(s) of Exception

Cost of Using Policy Value	Cost of Using Proposed Element Value

Summary of Justification

Prepared By	Date

APPROVAL/DISAPPROVAL

BDE Approval Date

08/09/2016

FHWA Approval Date (Level One)

Illinois Department of Transportation

Design Exception Request Project Identification

Key Route	Marked Route/Road Name	Contract #	State Job #
FAP 349	US Route 30/Baseline Road		P-91-403-11

Section	County(ies)	Municipality
	Kane and Kendall	

Local Agency	LRS Section #	Permit Applicant	Permit #

Project Limits

IL Route 47 to IL Route 31

Project Length	Current Posted Speed
4.4 miles	55 mph

Estimate of Cost	Functional Classification	Design Yr	Design Traffic ADT	Design Traffic DHV	
56,000,000	Strategic Regional Arterial	2040	50,000	AM 5,000	PM 5,000

On the NHS System?	Structure Numbers	Type of Project (Construction, Reconstruction, 3R, 3P, SMART, HSIP, etc.)
☒ Yes ☐ No	047-0029	Reconstruction

Brief Project Description

Reconstruction of 4.4 miles of US Route 30, including removal and replacement of the structure carrying US Route 30 over Blackberry Creek in Kane and Kendall Counties.

EXCEPTION DOCUMENTATION

Level of Exception ☐ **Level One** ☒ **Level Two**

Design Element for Which an Exception is Requested

Median width in dual left turn lane taper (Partially shadowed approach taper)

Design Element Policy Value

30' width through dual left storage and turn lane taper per BDE Section 36-3.05(b)

Proposed Design Element Value

Median tapers from 18'/22' to 30' in dual left turn lane taper

Location(s) of Exception

North, South and East legs of the US Route 30 and Gordon Road intersection.

Crash History and Potential of Exception Location(s)

10 total crashes between 2010 and 2014. 0 were related to this Design Exception. This intersection was not a 5% location for 2010 and 2014. Proposed scope of work will not improve the crash history at this location of the project.

Cost of Using Policy Value	Cost of Using Proposed Exception Value
$500,000.00	$250,000.00

Impacts Other Than Cost of Using Policy Value

Project limits of the side roads would be extended and additional proposed R.O.W. would be required.

Proposed Mitigation to Address Exception

None

Geometric Compatibility with Adjacent Sections

Yes

Potential Effects on Other Design Elements

None

Potential Impacts on Mobility or Traffic Operations

None

Summary of Justification for Exception

Combining the approach tapers and turn lane tapers (partially shadowed approach tapers) on Gordon Road reduces the project limits and impacts.

Coordination Meeting Date	Prepared By	Date
08/09/2016	Luke D. Zeller, Hutchison Engineering Inc.	08/08/2016

PAVEMENT/RESURFACING EXCEPTIONS

☐ **New Pavement** ☐ **Pavement Widening** ☐ **Resurfacing**

Design Period/ Expected Service Life	Design Year	Structural Design Traffic	%PV	%SU	%MU

Design Element Policy Value	Proposed Design Element Value

Location(s) of Exception

Cost of Using Policy Value	Cost of Using Proposed Element Value

Summary of Justification

Prepared By	Date

APPROVAL/DISAPPROVAL

BDE Approval Date

08/09/2016

FHWA Approval Date (Level One)

Illinois Department of Transportation

Design Exception Request Project Identification

Key Route	Marked Route/Road Name	Contract #	State Job #
FAP 349	US Route 30/Baseline Road		P-91-403-11

Section	County(ies)	Municipality
	Kane and Kendall	

Local Agency	LRS Section #	Permit Applicant	Permit #

Project Limits

IL Route 47 to IL Route 31

Project Length	Current Posted Speed
4.4 miles	55 mph

Estimate of Cost	Functional Classification	Design Yr	Design Traffic ADT	Design Traffic DHV	
56,000,000	Strategic Regional Arterial	2040	50,000	AM 5,000	PM 5,000

On the NHS System?	Structure Numbers	Type of Project (Construction, Reconstruction, 3R, 3P, SMART, HSIP, etc.)
☒ Yes ☐ No	047-0029	Reconstruction

Brief Project Description

Reconstruction of 4.4 miles of US Route 30, including removal and replacement of the structure carrying US Route 30 over Blackberry Creek in Kane and Kendall Counties.

EXCEPTION DOCUMENTATION

Level of Exception ☐ **Level One** ☒ **Level Two**

Design Element for Which an Exception is Requested

Minimum Horizontal Curve Length

Design Element Policy Value

500' per BLRS Section 29-2.06

Proposed Design Element Value

153.57'

Location(s) of Exception

South Leg of Gordon Road

Crash History and Potential of Exception Location(s)

10 total crashes between 2010 and 2014. 0 were related to this Design Exception. This intersection was not a 5% location for 2010 and 2014. Proposed scope of work will not improve the crash history at this location of the project.

Cost of Using Policy Value	Cost of Using Proposed Exception Value
$425,000.00	$200,000.00

Impacts Other Than Cost of Using Policy Value

The project limits would be extended to accommodate the additional curve length and Adam Ave. would have to be reconstructed due to the new alignment that would result from the design length curve.

Proposed Mitigation to Address Exception

None

Geometric Compatibility with Adjacent Sections

Yes

Potential Effects on Other Design Elements

None

Potential Impacts on Mobility or Traffic Operations

None

Summary of Justification for Exception

The smaller horizontal curve was proposed in order to match existing conditions as much as possible. Using the 500' minimum curve would cause the project limits on the south leg of Gordon Road to be increased greatly, which was avoided by using the smaller horizontal curves.

Coordination Meeting Date	Prepared By	Date
08/09/2016	Luke D. Zeller, Hutchison Engineering Inc.	08/08/2016

PAVEMENT/RESURFACING EXCEPTIONS

☐ **New Pavement** ☐ **Pavement Widening** ☐ **Resurfacing**

Design Period/ Expected Service Life	Design Year	Structural Design Traffic	%PV	%SU	%MU

Design Element Policy Value	Proposed Design Element Value

Location(s) of Exception

Cost of Using Policy Value	Cost of Using Proposed Element Value

Summary of Justification

Prepared By	Date

APPROVAL/DISAPPROVAL

BDE Approval Date

08/09/2016

FHWA Approval Date (Level One)

Illinois Department of Transportation

Design Exception Request Project Identification

Key Route	Marked Route/Road Name	Contract #	State Job #
FAP 349	US Route 30/Baseline Road		P-91-403-11

Section	County(ies)	Municipality
	Kane and Kendall	

Local Agency	LRS Section #	Permit Applicant	Permit #

Project Limits

IL Route 47 to IL Route 31

Project Length	Current Posted Speed
4.4 miles	55 mph

Estimate of Cost	Functional Classification	Design Yr	Design Traffic ADT	Design Traffic DHV	
56,000,000	Strategic Regional Arterial	2040	50,000	AM 5,000	PM 5,000

On the NHS System?	Structure Numbers	Type of Project (Construction, Reconstruction, 3R, 3P, SMART, HSIP, etc.)
☒ Yes ☐ No	047-0029	Reconstruction

Brief Project Description

Reconstruction of 4.4 miles of US Route 30, including removal and replacement of the structure carrying US Route 30 over Blackberry Creek in Kane and Kendall Counties.

EXCEPTION DOCUMENTATION

Level of Exception ☐ **Level One** ☒ **Level Two**

Design Element for Which an Exception is Requested

Minimum Horizontal Curve Length

Design Element Policy Value

500' per BLRS Section 29-2.06

Proposed Design Element Value

121.93'

Location(s) of Exception

South Leg of Gordon Road

Crash History and Potential of Exception Location(s)

10 total crashes between 2010 and 2014. 0 were related to this Design Exception. This intersection was not a 5% location for 2010 and 2014. Proposed scope of work will not improve the crash history at this location of the project.

Cost of Using Policy Value	Cost of Using Proposed Exception Value
$425,000.00	$200,000.00

Impacts Other Than Cost of Using Policy Value

The project limits would be extended to accommodate the additional curve length and Adam Ave. would have to be reconstructed due to the new alignment that would result from the design length curve.

Proposed Mitigation to Address Exception

None

Geometric Compatibility with Adjacent Sections

Yes

Potential Effects on Other Design Elements

None

Potential Impacts on Mobility or Traffic Operations

None

Summary of Justification for Exception

The smaller horizontal curve was proposed in order to match existing conditions as much as possible. Using the 500' minimum curve would cause the project limits on the south leg of Gordon Road to be increased greatly, which was avoided by using the smaller horizontal curves.

Coordination Meeting Date	Prepared By	Date
08/09/2016	Luke D. Zeller, Hutchison Engineering Inc.	08/08/2016

PAVEMENT/RESURFACING EXCEPTIONS

☐ **New Pavement** ☐ **Pavement Widening** ☐ **Resurfacing**

Design Period/ Expected Service Life	Design Year	Structural Design Traffic	%PV	%SU	%MU

Design Element Policy Value	Proposed Design Element Value

Location(s) of Exception

Cost of Using Policy Value	Cost of Using Proposed Element Value

Summary of Justification

Prepared By	Date

APPROVAL/DISAPPROVAL

BDE Approval Date

08/09/2016

FHWA Approval Date (Level One)

Illinois Department of Transportation

Design Exception Request Project Identification

Key Route	Marked Route/Road Name	Contract #	State Job #
FAP 349	US Route 30/Baseline Road		P-91-403-11

Section	County(ies)	Municipality
	Kane and Kendall	

Local Agency	LRS Section #	Permit Applicant	Permit #

Project Limits

IL Route 47 to IL Route 31

Project Length	Current Posted Speed
4.4 miles	55 mph

Estimate of Cost	Functional Classification	Design Yr	Design Traffic ADT	Design Traffic DHV	
56,000,000	Strategic Regional Arterial	2040	50,000	AM 5,000	PM 5,000

On the NHS System?	Structure Numbers	Type of Project (Construction, Reconstruction, 3R, 3P, SMART, HSIP, etc.)
☒ Yes ☐ No	047-0029	Reconstruction

Brief Project Description

Reconstruction of 4.4 miles of US Route 30, including removal and replacement of the structure carrying US Route 30 over Blackberry Creek in Kane and Kendall Counties.

EXCEPTION DOCUMENTATION

Level of Exception ☐ **Level One** ☒ **Level Two**

Design Element for Which an Exception is Requested

Storage Length

Design Element Policy Value

271' per Red-Time Queue (AM)

Proposed Design Element Value

120'

Location(s) of Exception

Gordon Road Northbound Left Turn Lane @ US Route 30

Crash History and Potential of Exception Location(s)

10 total crashes between 2010 and 2014. 0 were related to this Design Exception. This intersection was not a 5% location for 2010 and 2014. Proposed scope of work will not improve the crash history at this location of the project.

Cost of Using Policy Value	Cost of Using Proposed Exception Value
$850,000.00	$400,000.00

Impacts Other Than Cost of Using Policy Value

The project limits would be extended to accommodate the additional length, existing left turn lane for Adam Ave. would have to be eliminated due to additional storage length.

Proposed Mitigation to Address Exception

None

Geometric Compatibility with Adjacent Sections

Yes

Potential Effects on Other Design Elements

None

Potential Impacts on Mobility or Traffic Operations

None

Summary of Justification for Exception

Meeting design length will increase project limits on side road and left turn lane for Adam Ave. would be eliminated due to proximity of Gordon/US Route 30 intersection.

Coordination Meeting Date	Prepared By	Date
08/09/2016	Luke D. Zeller, Hutchison Engineering Inc.	08/08/2016

PAVEMENT/RESURFACING EXCEPTIONS

☐ **New Pavement** ☐ **Pavement Widening** ☐ **Resurfacing**

Design Period/ Expected Service Life	Design Year	Structural Design Traffic	%PV	%SU	%MU

Design Element Policy Value	Proposed Design Element Value

Location(s) of Exception

Cost of Using Policy Value	Cost of Using Proposed Element Value

Summary of Justification

Prepared By	Date

APPROVAL/DISAPPROVAL

BDE Approval Date

08/09/2016

FHWA Approval Date (Level One)

Illinois Department of Transportation

Design Exception Request Project Identification

Key Route	Marked Route/Road Name	Contract #	State Job #
FAP 349	US Route 30/Baseline Road		P-91-403-11

Section	County(ies)	Municipality
	Kane and Kendall	

Local Agency	LRS Section #	Permit Applicant	Permit #

Project Limits

IL Route 47 to IL Route 31

Project Length	Current Posted Speed
4.4 miles	55 mph

Estimate of Cost	Functional Classification	Design Yr	Design Traffic ADT	Design Traffic DHV	
56,000,000	Strategic Regional Arterial	2040	50,000	AM 5,000	PM 5,000

On the NHS System?	Structure Numbers	Type of Project (Construction, Reconstruction, 3R, 3P, SMART, HSIP, etc.)
☒ Yes ☐ No	047-0029	Reconstruction

Brief Project Description

Reconstruction of 4.4 miles of US Route 30, including removal and replacement of the structure carrying US Route 30 over Blackberry Creek in Kane and Kendall Counties.

EXCEPTION DOCUMENTATION

Level of Exception ☐ **Level One** ☒ **Level Two**

Design Element for Which an Exception is Requested

Lane LOS

Design Element Policy Value

LOS C per BDE Figure 46-3E

Proposed Design Element Value

LOS D

Location(s) of Exception

US Route 30 @ Gordon Road: EB LT (AM/PM), WB LT (PM)

Crash History and Potential of Exception Location(s)

10 total crashes between 2010 and 2014. 0 were related to this Design Exception. This intersection was not a 5% location for 2010 and 2014. Proposed scope of work will not improve the crash history at this location of the project.

Cost of Using Policy Value	Cost of Using Proposed Exception Value
$500,000.00	$200,000.00

Impacts Other Than Cost of Using Policy Value

Other LOS's would be negatively affected if timings were revised to try and improve the LOS's mentioned above.

Proposed Mitigation to Address Exception

None

Geometric Compatibility with Adjacent Sections

Yes

Potential Effects on Other Design Elements

None

Potential Impacts on Mobility or Traffic Operations

Potential for excessive queues during AM and PM peak hours.

Summary of Justification for Exception

With the intersections designed as proposed, increasing the number of lanes to improve LOS is not an option without major impacts to ROW. The timings could be revised to improve certain movement LOS's, but that would negatively affect other movements.

Coordination Meeting Date	Prepared By	Date
08/09/2016	Luke D. Zeller, Hutchison Engineering Inc.	08/08/2016

PAVEMENT/RESURFACING EXCEPTIONS

☐ **New Pavement** ☐ **Pavement Widening** ☐ **Resurfacing**

Design Period/ Expected Service Life	Design Year	Structural Design Traffic	%PV	%SU	%MU

Design Element Policy Value	Proposed Design Element Value

Location(s) of Exception

Cost of Using Policy Value	Cost of Using Proposed Element Value

Summary of Justification

Prepared By	Date

APPROVAL/DISAPPROVAL

BDE Approval Date

08/09/2016

FHWA Approval Date (Level One)

Illinois Department of Transportation

Design Exception Request Project Identification

Key Route	Marked Route/Road Name	Contract #	State Job #
FAP 349	US Route 30/Baseline Road		P-91-403-11

Section	County(ies)	Municipality
	Kane and Kendall	

Local Agency	LRS Section #	Permit Applicant	Permit #

Project Limits

IL Route 47 to IL Route 31

Project Length	Current Posted Speed
4.4 miles	55 mph

Estimate of Cost	Functional Classification	Design Yr	Design Traffic ADT	Design Traffic DHV	
56,000,000	Strategic Regional Arterial	2040	50,000	AM 5,000	PM 5,000

On the NHS System?	Structure Numbers	Type of Project (Construction, Reconstruction, 3R, 3P, SMART, HSIP, etc.)
☒ Yes ☐ No	047-0029	Reconstruction

Brief Project Description

Reconstruction of 4.4 miles of US Route 30, including removal and replacement of the structure carrying US Route 30 over Blackberry Creek in Kane and Kendall Counties.

EXCEPTION DOCUMENTATION

Level of Exception ☐ **Level One** ☒ **Level Two**

Design Element for Which an Exception is Requested

Lane LOS

Design Element Policy Value

LOS C per BDE Figure 46-3E

Proposed Design Element Value

LOS E

Location(s) of Exception

US Route 30 @ Gordon Road: WB LT (AM)

Crash History and Potential of Exception Location(s)

10 total crashes between 2010 and 2014. 0 were related to this Design Exception. This intersection was not a 5% location for 2010 and 2014. Proposed scope of work will not improve the crash history at this location of the project.

Cost of Using Policy Value	Cost of Using Proposed Exception Value
$500,000.00	$200,000.00

Impacts Other Than Cost of Using Policy Value

Other LOS's would be negatively affected if timings were revised to try and improve the LOS's mentioned above.

Proposed Mitigation to Address Exception

None

Geometric Compatibility with Adjacent Sections

Yes

Potential Effects on Other Design Elements

None

Potential Impacts on Mobility or Traffic Operations

Potential for excessive queues during AM and PM peak hours.

Summary of Justification for Exception

With the intersections designed as proposed, increasing the number of lanes to improve LOS is not an option without major impacts to ROW. The timings could be revised to improve certain movement LOS's, but that would negatively affect other movements.

Coordination Meeting Date	Prepared By	Date
08/09/2016	Luke D. Zeller, Hutchison Engineering Inc.	08/08/2016

PAVEMENT/RESURFACING EXCEPTIONS

☐ **New Pavement** ☐ **Pavement Widening** ☐ **Resurfacing**

Design Period/ Expected Service Life	Design Year	Structural Design Traffic	%PV	%SU	%MU

Design Element Policy Value	Proposed Design Element Value

Location(s) of Exception

Cost of Using Policy Value	Cost of Using Proposed Element Value

Summary of Justification

Prepared By	Date

APPROVAL/DISAPPROVAL

BDE Approval Date

08/09/2016

FHWA Approval Date (Level One)

Illinois Department of Transportation

Design Exception Request Project Identification

Key Route	Marked Route/Road Name	Contract #	State Job #
FAP 349	US Route 30/Baseline Road		P-91-403-11

Section	County(ies)	Municipality
	Kane and Kendall	

Local Agency	LRS Section #	Permit Applicant	Permit #

Project Limits

IL Route 47 to IL Route 31

Project Length	Current Posted Speed
4.4 miles	55 mph

Estimate of Cost	Functional Classification	Design Yr	Design Traffic ADT	Design Traffic DHV	
56,000,000	Strategic Regional Arterial	2040	50,000	AM 5,000	PM 5,000

On the NHS System?	Structure Numbers	Type of Project (Construction, Reconstruction, 3R, 3P, SMART, HSIP, etc.)
☒ Yes ☐ No	047-0029	Reconstruction

Brief Project Description

Reconstruction of 4.4 miles of US Route 30, including removal and replacement of the structure carrying US Route 30 over Blackberry Creek in Kane and Kendall Counties.

EXCEPTION DOCUMENTATION

Level of Exception ☐ **Level One** ☒ **Level Two**

Design Element for Which an Exception is Requested

Storage Length

Design Element Policy Value

311' per Red-Time Queue (AM)

Proposed Design Element Value

185'

Location(s) of Exception

Griffin Road Northbound Right Turn Lane @ US Route 30

Crash History and Potential of Exception Location(s)

12 total crashes between 2010 and 2014. 0 were related to this Design Exception. This intersection was not a 5% location for 2010 and 2014. Proposed scope of work will not improve the crash history at this location of the project.

Cost of Using Policy Value	Cost of Using Proposed Exception Value
$250,000.00	$60,000.00

Impacts Other Than Cost of Using Policy Value

Storage length would extend to the intersection of Kate Drive and Griffin Drive, which would result in the turn lane taper going through the intersection.

Proposed Mitigation to Address Exception

None

Geometric Compatibility with Adjacent Sections

Yes

Potential Effects on Other Design Elements

None

Potential Impacts on Mobility or Traffic Operations

Potential for AM queues to extend into thru lane during peak hour.

Summary of Justification for Exception

Turn lane storage was designed to match existing in order to avoid impacts at the Kate Drive intersection and minimize the project limits on the south leg. Any proposed striping through the intersection at Kate Drive could cause confusion.

Coordination Meeting Date	Prepared By	Date
08/09/2016	Luke D. Zeller, Hutchison Engineering Inc.	08/08/2016

PAVEMENT/RESURFACING EXCEPTIONS

☐ **New Pavement** ☐ **Pavement Widening** ☐ **Resurfacing**

Design Period/ Expected Service Life	Design Year	Structural Design Traffic	%PV	%SU	%MU

Design Element Policy Value	Proposed Design Element Value

Location(s) of Exception

Cost of Using Policy Value	Cost of Using Proposed Element Value

Summary of Justification

Prepared By	Date

APPROVAL/DISAPPROVAL

BDE Approval Date

08/09/2016

FHWA Approval Date (Level One)

Illinois Department of Transportation

Design Exception Request Project Identification

Key Route	Marked Route/Road Name	Contract #	State Job #
FAP 349	US Route 30/Baseline Road		P-91-403-11

Section	County(ies)	Municipality
	Kane and Kendall	

Local Agency	LRS Section #	Permit Applicant	Permit #

Project Limits

IL Route 47 to IL Route 31

Project Length	Current Posted Speed
4.4 miles	55 mph

Estimate of Cost	Functional Classification	Design Yr	Design Traffic ADT	Design Traffic DHV	
56,000,000	Strategic Regional Arterial	2040	50,000	AM 5,000	PM 5,000

On the NHS System?	Structure Numbers	Type of Project (Construction, Reconstruction, 3R, 3P, SMART, HSIP, etc.)
☒ Yes ☐ No	047-0029	Reconstruction

Brief Project Description

Reconstruction of 4.4 miles of US Route 30, including removal and replacement of the structure carrying US Route 30 over Blackberry Creek in Kane and Kendall Counties.

EXCEPTION DOCUMENTATION

Level of Exception ☐ **Level One** ☒ **Level Two**

Design Element for Which an Exception is Requested

Turn Lane Taper Length

Design Element Policy Value

155' per BLRS Figure 34-3B

Proposed Design Element Value

95'

Location(s) of Exception

Griffin Road Southbound left and right turn lane tapers

Crash History and Potential of Exception Location(s)

12 total crashes between 2010 and 2014. 0 were related to this Design Exception. This intersection was not a 5% location for 2010 and 2014. Proposed scope of work will not improve the crash history at this location of the project.

Cost of Using Policy Value	Cost of Using Proposed Exception Value
$250,000.00	$30,000.00

Impacts Other Than Cost of Using Policy Value

Using a policy value taper length, the median would extend into the existing intersection with Civic Center Drive, which would need realignment or striping the taper through the intersection.

Proposed Mitigation to Address Exception

None

Geometric Compatibility with Adjacent Sections

Yes

Potential Effects on Other Design Elements

None

Potential Impacts on Mobility or Traffic Operations

Potential for queues to extend into thru lane during peak hours.

Summary of Justification for Exception

Turn lane tapers to match existing in order to avoid any impacts with the intersection at Civic Center Drive and to minimize the project limits on the north leg of Griffin Drive.

Coordination Meeting Date	Prepared By	Date
08/09/2016	Luke D. Zeller, Hutchison Engineering Inc.	08/08/2016

PAVEMENT/RESURFACING EXCEPTIONS

☐ **New Pavement** ☐ **Pavement Widening** ☐ **Resurfacing**

Design Period/ Expected Service Life	Design Year	Structural Design Traffic	%PV	%SU	%MU

Design Element Policy Value	Proposed Design Element Value

Location(s) of Exception

Cost of Using Policy Value	Cost of Using Proposed Element Value

Summary of Justification

Prepared By	Date

APPROVAL/DISAPPROVAL

BDE Approval Date

08/09/2016

FHWA Approval Date (Level One)

Illinois Department of Transportation

Design Exception Request Project Identification

Key Route	Marked Route/Road Name	Contract #	State Job #
FAP 349	US Route 30/Baseline Road		P-91-403-11

Section	County(ies)	Municipality
	Kane and Kendall	

Local Agency	LRS Section #	Permit Applicant	Permit #

Project Limits

IL Route 47 to IL Route 31

Project Length	Current Posted Speed
4.4 miles	55 mph

Estimate of Cost	Functional Classification	Design Yr	Design Traffic ADT	Design Traffic DHV	
56,000,000	Strategic Regional Arterial	2040	50,000	AM 5,000	PM 5,000

On the NHS System?	Structure Numbers	Type of Project (Construction, Reconstruction, 3R, 3P, SMART, HSIP, etc.)
☒ Yes ☐ No	047-0029	Reconstruction

Brief Project Description

Reconstruction of 4.4 miles of US Route 30, including removal and replacement of the structure carrying US Route 30 over Blackberry Creek in Kane and Kendall Counties.

EXCEPTION DOCUMENTATION

Level of Exception ☐ **Level One** ☒ **Level Two**

Design Element for Which an Exception is Requested

Approach Taper

Design Element Policy Value

1:40 per BLRS Figure 34-3.D

Proposed Design Element Value

1:8.5

Location(s) of Exception

SB Griffin Drive Thru Lane

Crash History and Potential of Exception Location(s)

12 total crashes between 2010 and 2014. 0 were related to this Design Exception. This intersection was not a 5% location for 2010 and 2014. Proposed scope of work will not improve the crash history at this location of the project.

Cost of Using Policy Value	Cost of Using Proposed Exception Value
$800,000.00	$200,000.00

Impacts Other Than Cost of Using Policy Value

The project reconstruction limits on Griffin Drive would have to be extended south to accommodate policy taper rate, which would include intersection reconstruction at Kate Drive and Griffin Drive and potential additional proposed ROW.

Proposed Mitigation to Address Exception

None

Geometric Compatibility with Adjacent Sections

Yes

Potential Effects on Other Design Elements

None

Potential Impacts on Mobility or Traffic Operations

None

Summary of Justification for Exception

To minimize the project reconstruction limits on Griffin Drive and avoid any additional proposed ROW. Also, to avoid intersection reconstruction at Kate Drive and Griffin Drive.

Coordination Meeting Date	Prepared By	Date
08/09/2016	Luke D. Zeller, Hutchison Engineering Inc.	08/08/2016

PAVEMENT/RESURFACING EXCEPTIONS

☐ **New Pavement** ☐ **Pavement Widening** ☐ **Resurfacing**

Design Period/ Expected Service Life	Design Year	Structural Design Traffic	%PV	%SU	%MU

Design Element Policy Value	Proposed Design Element Value

Location(s) of Exception

Cost of Using Policy Value	Cost of Using Proposed Element Value

Summary of Justification

Prepared By	Date

APPROVAL/DISAPPROVAL

BDE Approval Date

08/09/2016

FHWA Approval Date (Level One)

Illinois Department of Transportation

Design Exception Request Project Identification

Key Route	Marked Route/Road Name	Contract #	State Job #
FAP 349	US Route 30/Baseline Road		P-91-403-11

Section	County(ies)	Municipality
	Kane and Kendall	

Local Agency	LRS Section #	Permit Applicant	Permit #

Project Limits

IL Route 47 to IL Route 31

Project Length	Current Posted Speed
4.4 miles	55 mph

Estimate of Cost	Functional Classification	Design Yr	Design Traffic ADT	Design Traffic DHV	
56,000,000	Strategic Regional Arterial	2040	50,000	AM 5,000	PM 5,000

On the NHS System?	Structure Numbers	Type of Project (Construction, Reconstruction, 3R, 3P, SMART, HSIP, etc.)
☒ Yes ☐ No	047-0029	Reconstruction

Brief Project Description

Reconstruction of 4.4 miles of US Route 30, including removal and replacement of the structure carrying US Route 30 over Blackberry Creek in Kane and Kendall Counties.

EXCEPTION DOCUMENTATION

Level of Exception ☐ **Level One** ☒ **Level Two**

Design Element for Which an Exception is Requested

Storage Length

Design Element Policy Value

609' per Red-Time Queue (AM)

Proposed Design Element Value

220'

Location(s) of Exception

Orchard Road Northbound Right Turn Lane @ US Route 30

Crash History and Potential of Exception Location(s)

173 total crashes between 2010 and 2014. 0 were related to this Design Exception. This intersection was a 5% location for 2010 and 2014. Proposed scope of work will not improve the crash history at this location of the project.

Cost of Using Policy Value	Cost of Using Proposed Exception Value
$450,000.00	$100,000.00

Impacts Other Than Cost of Using Policy Value

There would be impact to surrounding businesses because their entrances would have to be relocated in order to accommodate for the required storage length.

Proposed Mitigation to Address Exception

None

Geometric Compatibility with Adjacent Sections

Yes

Potential Effects on Other Design Elements

None

Potential Impacts on Mobility or Traffic Operations

Potential for AM queues to extend onto paved shoulder or through lane during peak AM hours.

Summary of Justification for Exception

There is an entrance to the Walmart parking lot 250' south of the Orchard intersection that limits the turn lane storage to 220'. There is a right turn lane striped for the Walmart entrance that could accept extra storage from the Orchard Northbound right turn lane but it was not included in the overall storage length for the turn lane.

Coordination Meeting Date	Prepared By	Date
08/09/2016	Luke D. Zeller, Hutchison Engineering Inc.	08/08/2016

PAVEMENT/RESURFACING EXCEPTIONS

☐ **New Pavement** ☐ **Pavement Widening** ☐ **Resurfacing**

Design Period/ Expected Service Life	Design Year	Structural Design Traffic	%PV	%SU	%MU

Design Element Policy Value	Proposed Design Element Value

Location(s) of Exception

Cost of Using Policy Value	Cost of Using Proposed Element Value

Summary of Justification

Prepared By	Date

APPROVAL/DISAPPROVAL

BDE Approval Date

08/09/2016

FHWA Approval Date (Level One)

Illinois Department of Transportation

Design Exception Request Project Identification

Key Route	Marked Route/Road Name	Contract #	State Job #
FAP 349	US Route 30/Baseline Road		P-91-403-11

Section	County(ies)	Municipality
	Kane and Kendall	

Local Agency	LRS Section #	Permit Applicant	Permit #

Project Limits

IL Route 47 to IL Route 31

Project Length	Current Posted Speed
4.4 miles	55 mph

Estimate of Cost	Functional Classification	Design Yr	Design Traffic ADT	Design Traffic DHV	
56,000,000	Strategic Regional Arterial	2040	50,000	AM 5,000	PM 5,000

On the NHS System?	Structure Numbers	Type of Project (Construction, Reconstruction, 3R, 3P, SMART, HSIP, etc.)
☒ Yes ☐ No	047-0029	Reconstruction

Brief Project Description

Reconstruction of 4.4 miles of US Route 30, including removal and replacement of the structure carrying US Route 30 over Blackberry Creek in Kane and Kendall Counties.

EXCEPTION DOCUMENTATION

Level of Exception ☐ **Level One** ☒ **Level Two**

Design Element for Which an Exception is Requested

Lane LOS

Design Element Policy Value

LOS C per BDE Figure 46-3E

Proposed Design Element Value

LOS D

Location(s) of Exception

US Route 30 @ Orchard Road: EB LT (AM), EB TH (AM/PM), WB LT (AM/PM), WB TH (AM/PM), NB TH (AM), SB TH (PM)

Crash History and Potential of Exception Location(s)

173 total crashes between 2010 and 2014. 0 were related to this Design Exception. This intersection was a 5% location for 2010 and 2014. Proposed scope of work will not improve the crash history at this location of the project.

Cost of Using Policy Value	Cost of Using Proposed Exception Value
$500,000.00	$200,000.00

Impacts Other Than Cost of Using Policy Value

Other LOS's would be negatively affected if timings were revised to try and improve the LOS's mentioned above.

Proposed Mitigation to Address Exception

None

Geometric Compatibility with Adjacent Sections

Yes

Potential Effects on Other Design Elements

None

Potential Impacts on Mobility or Traffic Operations

Potential for excessive queues during AM and PM peak hours.

Summary of Justification for Exception

With the intersections designed as proposed, increasing the number of lanes to improve LOS is not an option without major impacts to ROW. The timings could be revised to improve certain movement LOS's, but that would negatively affect other movements.

Coordination Meeting Date	Prepared By	Date
08/09/2016	Luke D. Zeller, Hutchison Engineering Inc.	08/08/2016

PAVEMENT/RESURFACING EXCEPTIONS

☐ **New Pavement** ☐ **Pavement Widening** ☐ **Resurfacing**

Design Period/ Expected Service Life	Design Year	Structural Design Traffic	%PV	%SU	%MU

Design Element Policy Value	Proposed Design Element Value

Location(s) of Exception

Cost of Using Policy Value	Cost of Using Proposed Element Value

Summary of Justification

Prepared By	Date

APPROVAL/DISAPPROVAL

BDE Approval Date

08/09/2016

FHWA Approval Date (Level One)

Illinois Department of Transportation

Design Exception Request Project Identification

Key Route	Marked Route/Road Name	Contract #	State Job #
FAP 349	US Route 30/Baseline Road		P-91-403-11

Section	County(ies)	Municipality
	Kane and Kendall	

Local Agency	LRS Section #	Permit Applicant	Permit #

Project Limits

IL Route 47 to IL Route 31

Project Length	Current Posted Speed
4.4 miles	55 mph

Estimate of Cost	Functional Classification	Design Yr	Design Traffic ADT	Design Traffic DHV	
56,000,000	Strategic Regional Arterial	2040	50,000	AM 5,000	PM 5,000

On the NHS System?	Structure Numbers	Type of Project (Construction, Reconstruction, 3R, 3P, SMART, HSIP, etc.)
☒ Yes ☐ No	047-0029	Reconstruction

Brief Project Description

Reconstruction of 4.4 miles of US Route 30, including removal and replacement of the structure carrying US Route 30 over Blackberry Creek in Kane and Kendall Counties.

EXCEPTION DOCUMENTATION

Level of Exception ☐ **Level One** ☒ **Level Two**

Design Element for Which an Exception is Requested

Lane LOS

Design Element Policy Value

LOS C per BDE Figure 46-3E

Proposed Design Element Value

LOS E

Location(s) of Exception

US Route 30 @ Orchard Road: EB LT (PM), WB LT (PM), NB LT (AM/PM), NB TH (PM), NB RT (AM), SB LT (AM/PM)

Crash History and Potential of Exception Location(s)

173 total crashes between 2010 and 2014. 0 were related to this Design Exception. This intersection was a 5% location for 2010 and 2014. Proposed scope of work will not improve the crash history at this location of the project.

Cost of Using Policy Value	Cost of Using Proposed Exception Value
$500,000.00	$200,000.00

Impacts Other Than Cost of Using Policy Value

Other LOS's would be negatively affected if timings were revised to try and improve the LOS's mentioned above.

Proposed Mitigation to Address Exception

None

Geometric Compatibility with Adjacent Sections

Yes

Potential Effects on Other Design Elements

None

Potential Impacts on Mobility or Traffic Operations

Potential for excessive queues during AM and PM peak hours.

Summary of Justification for Exception

With the intersections designed as proposed, increasing the number of lanes to improve LOS is not an option without major impacts to ROW. The timings could be revised to improve certain movement LOS's, but that would negatively affect other movements.

Coordination Meeting Date	Prepared By	Date
08/09/2016	Luke D. Zeller, Hutchison Engineering Inc.	08/08/2016

PAVEMENT/RESURFACING EXCEPTIONS

☐ **New Pavement** ☐ **Pavement Widening** ☐ **Resurfacing**

Design Period/ Expected Service Life	Design Year	Structural Design Traffic	%PV	%SU	%MU

Design Element Policy Value	Proposed Design Element Value

Location(s) of Exception

Cost of Using Policy Value	Cost of Using Proposed Element Value

Summary of Justification

Prepared By	Date

APPROVAL/DISAPPROVAL

BDE Approval Date

08/09/2016

FHWA Approval Date (Level One)

Illinois Department of Transportation

Design Exception Request Project Identification

Key Route	Marked Route/Road Name	Contract #	State Job #
FAP 349	US Route 30/Baseline Road		P-91-403-11

Section	County(ies)	Municipality
	Kane and Kendall	

Local Agency	LRS Section #	Permit Applicant	Permit #

Project Limits

IL Route 47 to IL Route 31

Project Length	Current Posted Speed
4.4 miles	55 mph

Estimate of Cost	Functional Classification	Design Yr	Design Traffic ADT	Design Traffic DHV	
56,000,000	Strategic Regional Arterial	2040	50,000	AM 5,000	PM 5,000

On the NHS System?	Structure Numbers	Type of Project (Construction, Reconstruction, 3R, 3P, SMART, HSIP, etc.)
☒ Yes ☐ No	047-0029	Reconstruction

Brief Project Description

Reconstruction of 4.4 miles of US Route 30, including removal and replacement of the structure carrying US Route 30 over Blackberry Creek in Kane and Kendall Counties.

EXCEPTION DOCUMENTATION

Level of Exception ☐ **Level One** ☒ **Level Two**

Design Element for Which an Exception is Requested

Minimum vertical profile grade on curbed streets

Design Element Policy Value

0.3% per BDE Section 33-2.03

Proposed Design Element Value

<0.3%

Location(s) of Exception

US Route 30 between Orchard Road and IL Route 31

Crash History and Potential of Exception Location(s)

373 total crashes between 2010 and 2014. 0 were related to this Design Exception. This intersection was not a 5% location for 2010 and 2014. Proposed scope of work will not improve the crash history at this location of the project.

Cost of Using Policy Value	Cost of Using Proposed Exception Value
$1,200,000.00	$1,500,000.00

Impacts Other Than Cost of Using Policy Value

None.

Proposed Mitigation to Address Exception

Curb and gutter will be warped to provide additional inlets to account for the long stretch of flat vertical profile.

Geometric Compatibility with Adjacent Sections

Yes

Potential Effects on Other Design Elements

None

Potential Impacts on Mobility or Traffic Operations

None

Summary of Justification for Exception

The profile design in this area of US Route 30 was specifically designed as to not increase the 500 year flood elevation in the Montgomery Overflow area. This required a significant flat area in the profile that was accomplished by multiple vertical curves with less than policy grades.

Coordination Meeting Date	Prepared By	Date
08/09/2017	Luke D. Zeller, Hutchison Engineering Inc.	06/16/2017

PAVEMENT/RESURFACING EXCEPTIONS

☐ **New Pavement** ☐ **Pavement Widening** ☐ **Resurfacing**

Design Period/ Expected Service Life	Design Year	Structural Design Traffic	%PV	%SU	%MU

Design Element Policy Value	Proposed Design Element Value

Location(s) of Exception

Cost of Using Policy Value	Cost of Using Proposed Element Value

Summary of Justification

Prepared By	Date

APPROVAL/DISAPPROVAL

BDE Approval Date

08/09/2017

FHWA Approval Date (Level One)

Illinois Department of Transportation

Design Exception Request Project Identification

Key Route	Marked Route/Road Name	Contract #	State Job #
FAP 349	US Route 30/Baseline Road		P-91-403-11

Section	County(ies)	Municipality
	Kane and Kendall	

Local Agency	LRS Section #	Permit Applicant	Permit #

Project Limits

IL Route 47 to IL Route 31

Project Length	Current Posted Speed
4.4 miles	55 mph

Estimate of Cost	Functional Classification	Design Yr	Design Traffic ADT	Design Traffic DHV	
56,000,000	Strategic Regional Arterial	2040	50,000	AM 5,000	PM 5,000

On the NHS System?	Structure Numbers	Type of Project (Construction, Reconstruction, 3R, 3P, SMART, HSIP, etc.)
☒ Yes ☐ No	047-0029	Reconstruction

Brief Project Description

Reconstruction of 4.4 miles of US Route 30, including removal and replacement of the structure carrying US Route 30 over Blackberry Creek in Kane and Kendall Counties.

EXCEPTION DOCUMENTATION

Level of Exception ☐ **Level One** ☒ **Level Two**

Design Element for Which an Exception is Requested

Guardrail length of need

Design Element Policy Value

125' per BDE Barrier Warrant Analysis

Proposed Design Element Value

56.25'

Location(s) of Exception

US Route 30 - NW quadrant of Orchard Road intersection

Crash History and Potential of Exception Location(s)

173 total crashes between 2010 and 2014. 0 were related to this Design Exception. This intersection was a 5% location for 2010 and 2014. Proposed scope of work will not improve the crash history at this location of the project.

Cost of Using Policy Value	Cost of Using Proposed Exception Value
$15,000.00	$7,000.00

Impacts Other Than Cost of Using Policy Value

Guardrail and terminals would have to be curved to wrap around the radii at the intersection. It would also have a break where the bike path would need to pass through.

Proposed Mitigation to Address Exception

Neither of the Type 1 (Special) TBT's will fit within the geometrics as they are proposed, so a Type 1 TBT was proposed to provide a TBT on the end of the Type 6 TBT.

Geometric Compatibility with Adjacent Sections

Yes

Potential Effects on Other Design Elements

None

Potential Impacts on Mobility or Traffic Operations

None

Summary of Justification for Exception

The Blackberry Creek bridge is located roughly 85' from the Orchard Road intersection. This distance only leaves enough room to fit a TBT Type 6 to a TBT Type 1. Neither of the Type 1 (Special) TBT's can fit with the proposed geometrics as they are designed.

Coordination Meeting Date	Prepared By	Date
08/09/2017	Luke D. Zeller, Hutchison Engineering Inc.	06/16/2017

PAVEMENT/RESURFACING EXCEPTIONS

☐ **New Pavement** ☐ **Pavement Widening** ☐ **Resurfacing**

Design Period/ Expected Service Life	Design Year	Structural Design Traffic	%PV	%SU	%MU

Design Element Policy Value	Proposed Design Element Value

Location(s) of Exception

Cost of Using Policy Value	Cost of Using Proposed Element Value

Summary of Justification

Prepared By	Date

APPROVAL/DISAPPROVAL

BDE Approval Date

08/09/2017

FHWA Approval Date (Level One)

Illinois Department of Transportation

Design Exception Request Project Identification

Key Route	Marked Route/Road Name	Contract #	State Job #
FAP 349	US Route 30/Baseline Road		P-91-403-11

Section	County(ies)	Municipality
	Kane and Kendall	

Local Agency	LRS Section #	Permit Applicant	Permit #

Project Limits

IL Route 47 to IL Route 31

Project Length	Current Posted Speed
4.4 miles	55 mph

Estimate of Cost	Functional Classification	Design Yr	Design Traffic ADT	Design Traffic DHV	
56,000,000	Strategic Regional Arterial	2040	50,000	AM 5,000	PM 5,000

On the NHS System?	Structure Numbers	Type of Project (Construction, Reconstruction, 3R, 3P, SMART, HSIP, etc.)
☒ Yes ☐ No	047-0029	Reconstruction

Brief Project Description

Reconstruction of 4.4 miles of US Route 30, including removal and replacement of the structure carrying US Route 30 over Blackberry Creek in Kane and Kendall Counties.

EXCEPTION DOCUMENTATION

Level of Exception ☐ **Level One** ☒ **Level Two**

Design Element for Which an Exception is Requested

Median width in dual left turn lane taper (Partially shadowed approach taper)

Design Element Policy Value

30' width through dual left storage and turn lane taper per BDE Section 36-3.05(b)

Proposed Design Element Value

Median tapers from 18'/22' to 30' in dual left turn lane taper

Location(s) of Exception

North, South and West legs of the US Route 30 and Orchard Road intersection.

Crash History and Potential of Exception Location(s)

173 total crashes between 2010 and 2014. 0 were related to this Design Exception. This intersection was a 5% location for 2010 and 2014. Proposed scope of work will not improve the crash history at this location of the project.

Cost of Using Policy Value	Cost of Using Proposed Exception Value
$500,000.00	$250,000.00

Impacts Other Than Cost of Using Policy Value

Project limits of the side roads would be extended and additional proposed R.O.W. would be required.

Proposed Mitigation to Address Exception

None

Geometric Compatibility with Adjacent Sections

Yes

Potential Effects on Other Design Elements

None

Potential Impacts on Mobility or Traffic Operations

None

Summary of Justification for Exception

Combining the approach tapers and turn lane tapers (partially shadowed approach tapers) on Orchard Road reduces the project limits and impacts.

Coordination Meeting Date	Prepared By	Date
08/08/2017	Luke D. Zeller, Hutchison Engineering Inc.	05/15/2017

PAVEMENT/RESURFACING EXCEPTIONS

☐ **New Pavement** ☐ **Pavement Widening** ☐ **Resurfacing**

Design Period/ Expected Service Life	Design Year	Structural Design Traffic	%PV	%SU	%MU

Design Element Policy Value	Proposed Design Element Value

Location(s) of Exception

Cost of Using Policy Value	Cost of Using Proposed Element Value

Summary of Justification

Prepared By	Date

APPROVAL/DISAPPROVAL

BDE Approval Date

08/09/2017

FHWA Approval Date (Level One)

S-7

Bicyclist and Pedestrian Checklist

BICYCLE CHECKLIST

1. CHECKLIST FOR BICYCLE TRAVEL GENERATORS IN PROJECT VICINITY

Review and record the potential bicycle travel generators in the vicinity of the project, such as those shown in the checklist. Note on the checklist the types of generators within 1 mile of the project corridor.

Generators	Yes	N/A	Generators	Yes	N/A
Residential Areas	☒	☐	Shopping Centers	☒	☐
Parks	☒	☐	Hospitals	☐	☒
Recreation Areas	☒	☐	Employment Center	☒	☐
Churches	☒	☐	Government Offices	☒	☐
Schools	☒	☐	Local Businesses	☒	☐
Libraries	☐	☒	Industrial Plants	☒	☐
Existing Bicycle Trails	☒	☐	Public Transportation Facilities	☐	☒
Planned Bicycle Trails	☒	☐	Other (Forest Preserves, etc.)	☒	☐

Attach a map of the project area showing the general location of these generators. Sections of Municipal or Township maps are acceptable, as well as photocopies of aerial photos. The map will serve to indicate where bicyclists will cross or ride along the corridor.

2. CHECKLIST FOR ORGANIZATIONS AND PUBLIC COORDINATION

The organizations presented in the checklist have been contacted to assess any nearby bicycle travel or planned development of recreational trails or other generators. Documentation of coordination, if any, is included in the Phase I report.

Organization	Yes	N/A	Organization	Yes	N/A
Chicago Metropolitan Agency for Planning (CMAP)	☒	☐	League of Illinois Bicyclists[1]	☒	☐
Local Municipalities	☒	☐	Illinois Department of Natural Resources[2]	☒	☐
Park or Forest Preserve Districts	☒	☐	Illinois Trails Conservancy[3]	☒	☐
Sub-Regional Planning Council	☐	☒	Active Transportation Alliance[4]	☒	☐
Local Bicycle Clubs, Advocacy Groups	☒	☐		☐	☐

[1] League of Illinois Bicyclists, 2550 Cheshire Drive, Aurora, IL 60504

[2] Illinois Department of Natural Resources – Division of Planning, 1 Natural Resources Way, Springfield, IL 62702

[3] Illinois Trails Conservancy – 144 West Main Street, PO Box 10, Capron, IL 61012

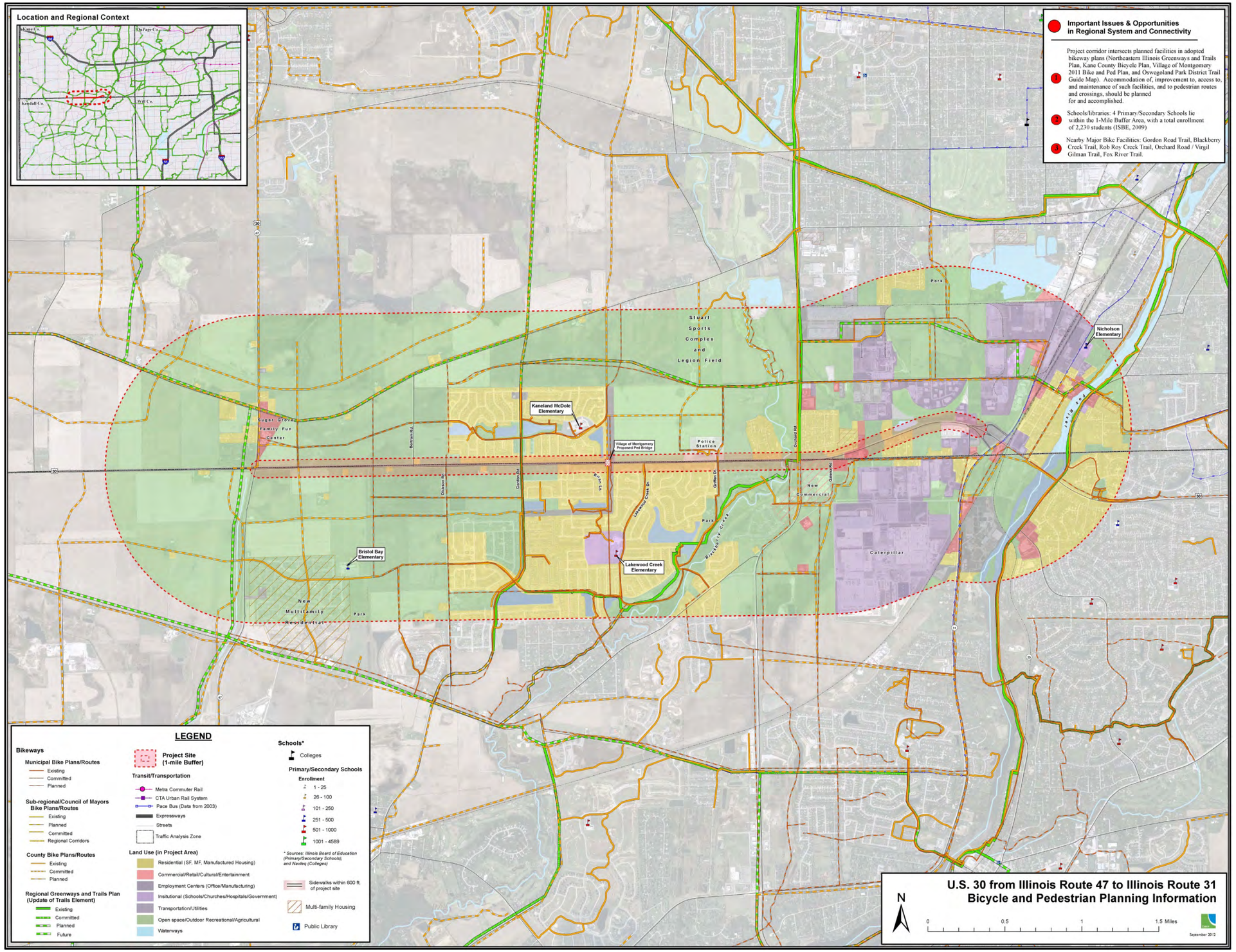
[4] Active Transportation Alliance – 9 W. Hubbard Street, Suite 402, Chicago, IL 60654-6545

FORM FOR BICYCLE TRAVEL ASSESSMENT

ROUTE: **FAP 349 (US 30)**
SECTION: _____
COUNTY: **Kane & Kendall**

1)	Where would bicyclists cross the project?
	At signalized intersections. Gordon Road, Griffin Drive and Orchard Road
	In addition the Village has a long range plan to construct an overpass to cross US 30 between Gordon Road and Griffin Drive
2)	Where would bicyclists need to ride parallel to the project[5]?
	Along the length of the corridor.
3)	Does the project provide unique or primary access[6] across a river, railroad, highway corridor or other natural or man-made barrier?
	No.
4)	Will the highway project negatively affect the recreational or transportation utility of an independent bikeway or trail? Highway projects will negatively affect at-grade paths and trails when they are severed, when the projected roadway traffic volumes increase to a level that prohibits safe crossings at-grade, or when the widening of the roadway prohibits sufficient time for safe crossing.
	No.
5)	Does the route provide primary access to a park, recreational area, school, or other significant destination?
	Yes. Stuart Sports Complex and Blackberry Trail Forest Preserve abut the project
	corridor.
6)	Is the highway or street designated as a bikeway in a regionally or locally adopted bike plan or is published in a regionally or locally adopted map as a recommended bike route?
	No.
7)	Will the projected two-way bicycle traffic volume (see Section 17-1.04) approximate 25 ADT or more during the peak three months of the bicycling season at a highway or street location where the current vehicular traffic volume will exceed 1000 ADT?. Estimate the bicycle ADT projection based on a five-year time frame from completion of the project.
	Yes. Estimated two-way bicycle ADT = 30.

[5] Secondary roads that could be used as alternate routes are usually within 2-3 blocks of projects in urban areas, within 0.5 miles (1 km) in suburban areas, and within 1 mile (2 km) in rural areas.
[6] Unique or primary access is defined as access which is not otherwise available within a reasonable riding distance of 1 mile (2 km).



U.S. 30 from Illinois Route 47 to Illinois Route 31
Bicycle and Pedestrian Planning Information

S-8

Tree Survey – Vegetation Assessment

U.S. 30 Tree Survey

PREPARED FOR:	Illinois Department of Transportation
PREPARED BY:	CH2M HILL
COPIES:	Dan Draper/HEI
DATE:	February 27, 2017

1.0 INTRODUCTION

The Illinois Department of Transportation (IDOT) is proposing improvements to US 30 (Baseline Road) from IL 47 to IL 31, in the City of Yorkville and Village of Montgomery, Kane and Kendall Counties, Illinois. Adjacent land use consists of agricultural, residential, commercial, and parkland.

A survey to identify trees within the project limits was performed between September 16 and October 1, 2016 by CH2M HILL. A follow-up inventory was performed on April 28, 2015 to collect additional tree data located within the revised study limits. Trees were evaluated along US 30 and arterials -- including Dickson, Gordon, Prescott, Lakewood Creek, Griffin, Blackberry, Orchard, and Horseman roads. Potential compensatory storage areas were also surveyed.

The objective of this memorandum is to document potential impacts to trees within the project survey area, which includes all areas that will be disturbed as a result of construction activities.

2.0 METHODOLOGY

This tree survey followed the IDOT Departmental Policies (D&E – 18), which specifies all landscaped trees (regardless of size) as well as volunteer trees with a diameter breast height (DBH) of six inches or greater be surveyed. Individual tree identification numbers were initially assigned based on field survey points provided by Hutchison Engineering (HEI). Trees were then field verified and tree points were both added and removed. Tree species were recorded and tree sizes were measured, and listed by trunk diameter (in inches) at 54” above grade (diameter breast high or DBH) with sizes of multi-stem (M/S) trunks added together and presented as one size. Tree type, health, and structure of each tree was noted. Additional comments were provided in the field notes column of the spreadsheet.

Through most of the corridor, trees were inventoried using the Direct Counting Method. In areas where there were large wooded areas, the Circular Plot Sampling Method was utilized. This method was used in three heavily wooded locations along the alignment at the east end of the project (from approximate Station 1220 to Station 1250), as shown in Exhibit xx. Tree data collected by the sample method was obtained by identifying trees based on range of sizes (<6”, 6” to 15” and >15”) and quantity of species observed within a specific location (typically a 100’ x 50’ area) and projected over the entire area of potential impact.

The project location map and the locations of trees are included in Appendix A. Tree inventories are provided in Appendix B (Left Offsets), Appendix C (Right Offsets), and Appendix D (Sample Plot Data).

3.0 RESULTS

Tree Type

Within the environmental survey limits, 1,391 trees were evaluated individually and another 822 trees were projected using the sample method.

Of the trees surveyed by direct count method, 72 species of trees were identified in the project limits. The most common tree species included evergreens (including pine, spruce, and firs) comprising 28 percent, maples (red maple, norway maple and silver maple) comprising 20 percent, crabapples comprising 11 percent, and elms comprising 9 percent of all trees surveyed. The remaining species consist of less than 6% of the overall number of trees evaluated. Table 1 presents tree distribution data.

Table 1.
Tree Data by Type, Direct Count Areas

	Number	**Percent of Total (%)**
Evergreen	392	28%
Maple	290	20%
Crabapple	160	11%
Elm	128	9%
Ash	67	5%
Hackberry	67	5%
Locust	62	4%
Birch	57	4%
Pear	43	3%
Mulberry	41	3%
Serviceberry	25	2%
All Others*	106	6%

Trees comprising less than 1% of the surveyed population include oak, Lilac, cottonwood, linden, dogwood, Hawthorn, sumac, chokeberry, buckthorn, magnolia, willow, Alder, catalpa, coffee, hickory, Osage, and walnut.

Within the sampled tree locations, predominant species consisted primarily of maple, mulberry, and elm trees—see Table 2.

Table 2.
Tree Data by Type, Sample Areas

	Percent of Total (%)
Maple	30%
Mulberry	20%
Elm	18%
Evergreen	16%
Hackberry	5%
Crabapple	4%
Buckthorn	4%
Ash	3%

Tree Size

Of the trees that were individually surveyed, 23 percent were less than 6 inches in size, and reflect intentionally planted landscape trees; 56 percent were between 6 and 15 inches in size; and 21 percent were greater than 15 inches in size. Of trees that were in the sample count survey, 45 percent were less than 15 inches in size; and 55 percent were greater than 15 inches in size. Table 3 details direct tree count data and Table 4 details sample count area.

Table 3.
Direct Tree Count Size Distribution

Tree Size	Number	Percent of Total (%)
<6" DBH	335	23%
6"-15" DBH	799	56%
>15" DBH	304	21%

Table 4.
Sample Tree Count Size Distribution

Tree Size	Percent of Total (%)
<6" DBH	0%
6"-15" DBH	45%
>15" DBH	55%

Tree Health and Structure

Tree health and structure were assessed during the tree survey and are summarized in Tables 5 and 6, respectively. Tree health refers to the vigor of the tree. Signs of disease were considered when evaluating the health of a tree. The structure of the tree refers to the branching pattern. The normal shaping of individual tree species are considered and compared to the tree species in the field. Missing or cut branches were also considered when rating the structure of the tree.

The general health and overall structure of the each tree's present conditions was rated Good, Fair, or Poor. Dead trees were also recorded in the survey.

Good: Tree is in good health, condition, vigor, and form. Tree has no major structural problems and no significant mechanical damage.

Fair: Tree exhibits fair health and reasonable vitality, with initial signs of decay. Tree may exhibit minor structural problems and/or mechanical damage, significant damage from non-fatal or disfiguring diseases, minor crown imbalance or thin crown, or stunted growth.

Poor: Tree appears unhealthy and may have structural defects such as co-dominant stems, severe included bark, or severe trunk and/or limb decay. Tree may have severe mechanical damage, crown dieback, or poor vigor threatening its ability to thrive.

Table 5.		
Direct Tree Count Data by Health		
	Number	**Percent of Total (%)**
Good	1,085	75
Fair	296	21
Poor	41	3
Dead	16	1
TOTAL	1,438	100
Trees collected by the sample method were not assigned health or structure analysis due to the natural forested habitat, but trees sampled would be generally graded with fair health and structure.		

Table 6.		
Direct Tree Count Data by Structure		
	Number	**Percent of Total (%)**
Good	1,064	74
Fair	338	24
Poor	36	3
Dead	16	1
TOTAL	1,438	100
Trees collected by the sample method were not assigned health or structure analysis due to the natural forested habitat, but trees sampled would be generally graded with fair health and structure.		

Trees with Special Functions / Screening Trees

As part of development of several subdivisions that abut US 30, the Village of Montgomery constructed berms and planted vegetation to provide a visual buffer from the road. These landscaped buffers are in the following locations:

- The north side of the roadway between Dickson Road and the ComEd ROW (generally from Station 1080 to Station 1130)
- The south side of the roadway from just east of Prescott Drive to just west of Blackberry Road (generally from Station 1115 to Station 1182)

A total of 711 trees were surveyed in these berm areas: 292 trees on the north side and 420 trees on the south side. Tables 7 and 8 detail types of trees in these locations.

Table 7	
Trees in Berms on North Side of Roadway	
	Number
evergreen	101
crabapple	50
maple	33
pear	19
birch	16
locust	16
ash	14
serviceberry	13
lilac	6
hawthorn	5
oak	5
dogwood	4
magnolia	3
alder	2
elm	2
arborvitae	1
coffee	1
Grand Total	**291**

Table 8	
Trees in Berms on South Side of Roadway	
	Number
evergreen	185
crabapple	77
maple	32
ash	38
birch	35
elm	11
oak	6
pear	7
serviceberry	7
linden	6
chokeberry	4
hackberry	3
locust	3
hawthorn	2
lilac	2
arborvitae	1
willow	1
Grand Total	**420**

4.0 SUMMARY OF IMPACTS

In total, 1,275 trees are proposed to be removed as a result of the project. Two-thirds of the estimated tree impacts occur in wooded areas;

Of the 1,438 trees that were individually surveyed, 437 trees are identified to be removed due to roadway improvements (see tables in Appendix). Of these 437 individually surveyed trees, more than half (approximately 250 trees) are considered undesirable, or volunteer trees, including box elder maples, siberian elm, buckthorn, hackberry, tree of heaven, or mulberry trees. Many of these trees border agricultural land, are along fence rows, or are under utility/communication utility lines. All are located within or immediately adjacent to the existing ROW. None of the individually surveyed trees identified within or adjacent to the project limits are considered exceptional.

Within the larger wooded areas (the sample count areas), an estimated 835 trees would be removed. Two of the sample wooded areas, A and B, are impacted by compensatory storage sites required as a result of the project. Sample wooded area C would be impacted by roadway improvements. Table 9 summarizes impacts in these areas. None of the trees within these areas are considered exceptional.

Table 9
Impacts in Sample Tree Count Wooded Areas

	Area Impacted (sq ft)	Estimated # of trees impacted	Comment
Sample Area A	46,238	347	Compensatory storage
Sample Area B	41,585	466	Compensatory storage
Sample Area C	9,612	23	Roadway improvements
Total		**835**	

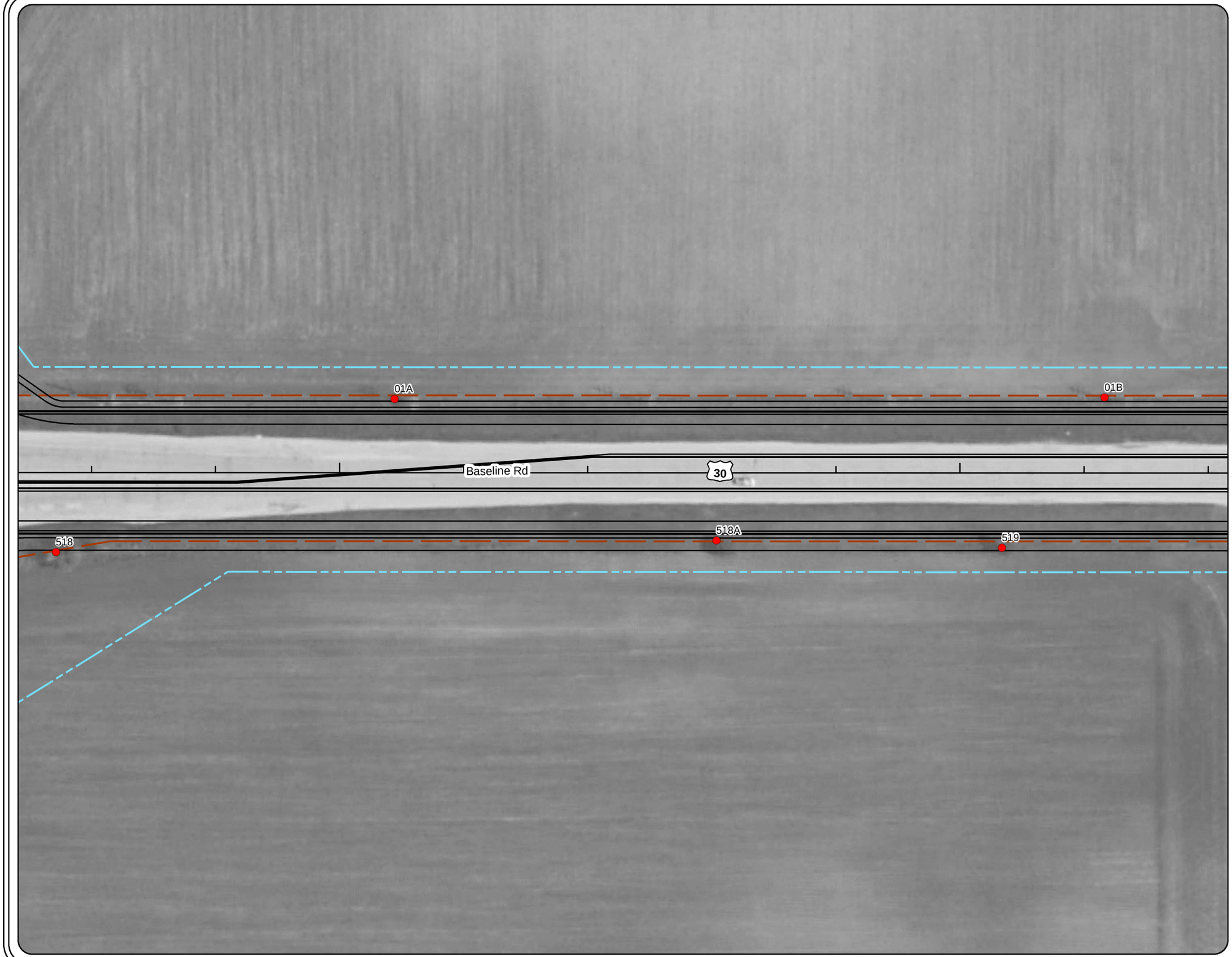
Within the specially planted landscape berm areas, 11 trees would be impacted by the proposed improvement. These impacted trees are on the south side of the roadway, adjacent to the Lakewood Creek subdivision. These 11 trees are not clustered together, but are isolated tree locations, where trees are immediately adjacent to the proposed ROW. In addition, there are some parkway trees (not within the berms) adjacent to the subdivisions that would also be impacted.

5.0 MITIGATION REQUIREMENTS

Tree replacement based on the IDOT D&E – 18 policy requires the replacement of isolated trees or small groups of trees within the project ROW to the extent practical. If bare root or balled and burlapped trees are used for replacement plantings, a minimum ratio of 1:1 is recommended for the number of trees planted to the number of trees intended to be established. If seedlings are used, a minimum ratio of 3:1 is recommended for the number of trees planted to the number of trees intended to be established. Replacement trees should be planted in suitable locations as close as practical to the removal site.

Appendix A

Project Area Map



LEGEND

- Proposed Design
- Existing Right-of-way
- Proposed Right-of-way

Trees

Design 1/30/17 Impacts:

- Remove

NORTH

0 25 50 100
Feet

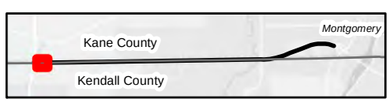
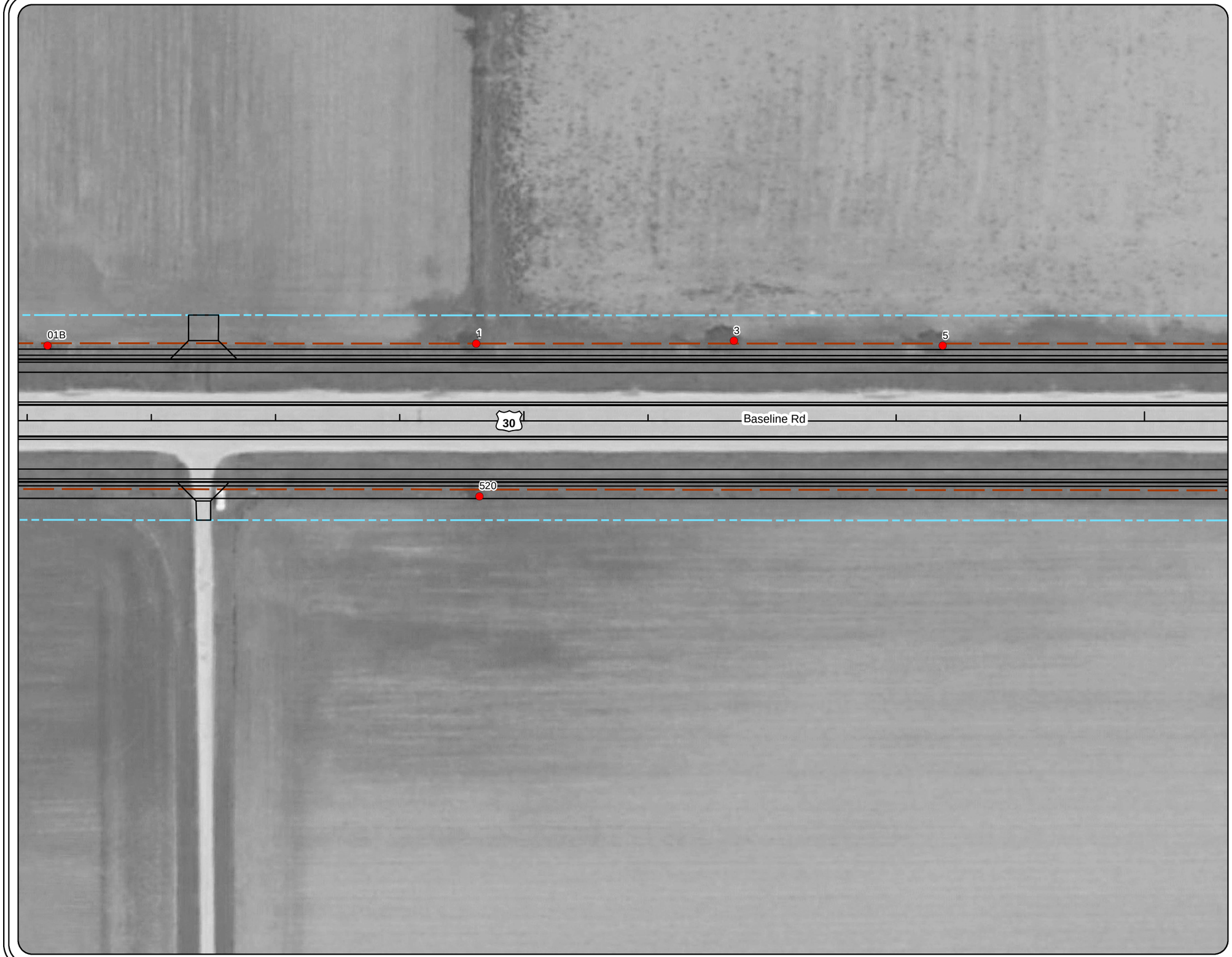


Exhibit 1
US30
Tree Survey and Impacts
February 20, 2017

US30_TreeSurvey_2017_0130.mxd, 2/20/2017



LEGEND

- Proposed Design
- Existing Right-of-way
- Proposed Right-of-way

Trees

Design 1/30/17 Impacts:

- Remove

NORTH

0 25 50 100
Feet

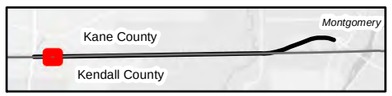


Exhibit 2
US30
Tree Survey and Impacts
February 20, 2017

US30_TreeSurvey_2017_0130.mxd, 2/20/2017

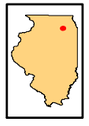
LEGEND

- Proposed Design
- Existing Right-of-way
- Proposed Right-of-way

Trees

Design 1/30/17 Impacts:

- Not Impacted
- Remove



NORTH

0 25 50 100
Feet

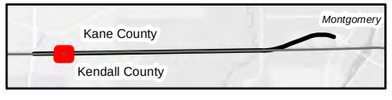


Exhibit 3
US30
Tree Survey and Impacts
February 20, 2017

US30_TreeSurvey_2017_0130.mxd, 2/20/2017

LEGEND

- Proposed Design
- Existing Right-of-way
- Proposed Right-of-way
- Temporary Construction Easement

Trees

Design 1/30/17 Impacts:

- Not Impacted
- Remove

NORTH

0 25 50 100
Feet

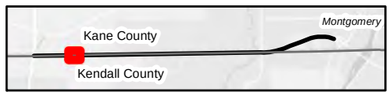


Exhibit 4
US30
Tree Survey and Impacts
February 20, 2017

US30_TreeSurvey_2017_0130.mxd, 2/20/2017

LEGEND

- Proposed Design
- Existing Right-of-way
- Proposed Right-of-way

Trees

Design 1/30/17 Impacts:

- Not Impacted
- Remove

NORTH

0 25 50 100
Feet

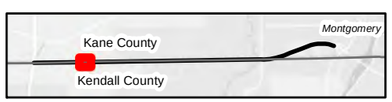
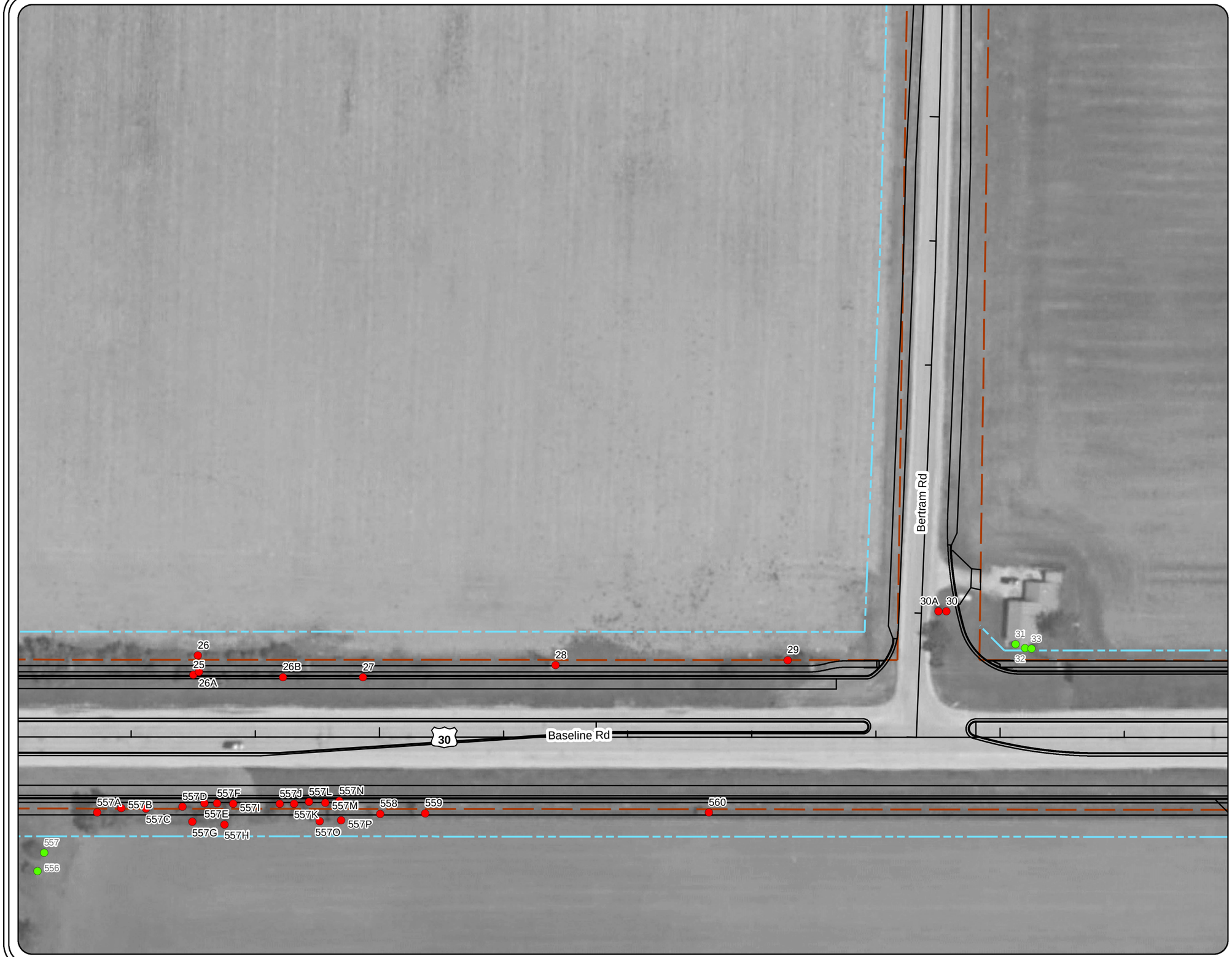


Exhibit 5
US30
Tree Survey and Impacts
February 20, 2017

US30_TreeSurvey_2017_0130.mxd, 2/20/2017



LEGEND

- Proposed Design
- Existing Right-of-way
- Proposed Right-of-way

Trees

Design 1/30/17 Impacts:

- Not Impacted
- Remove

NORTH

0 25 50 100
Feet

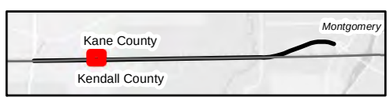
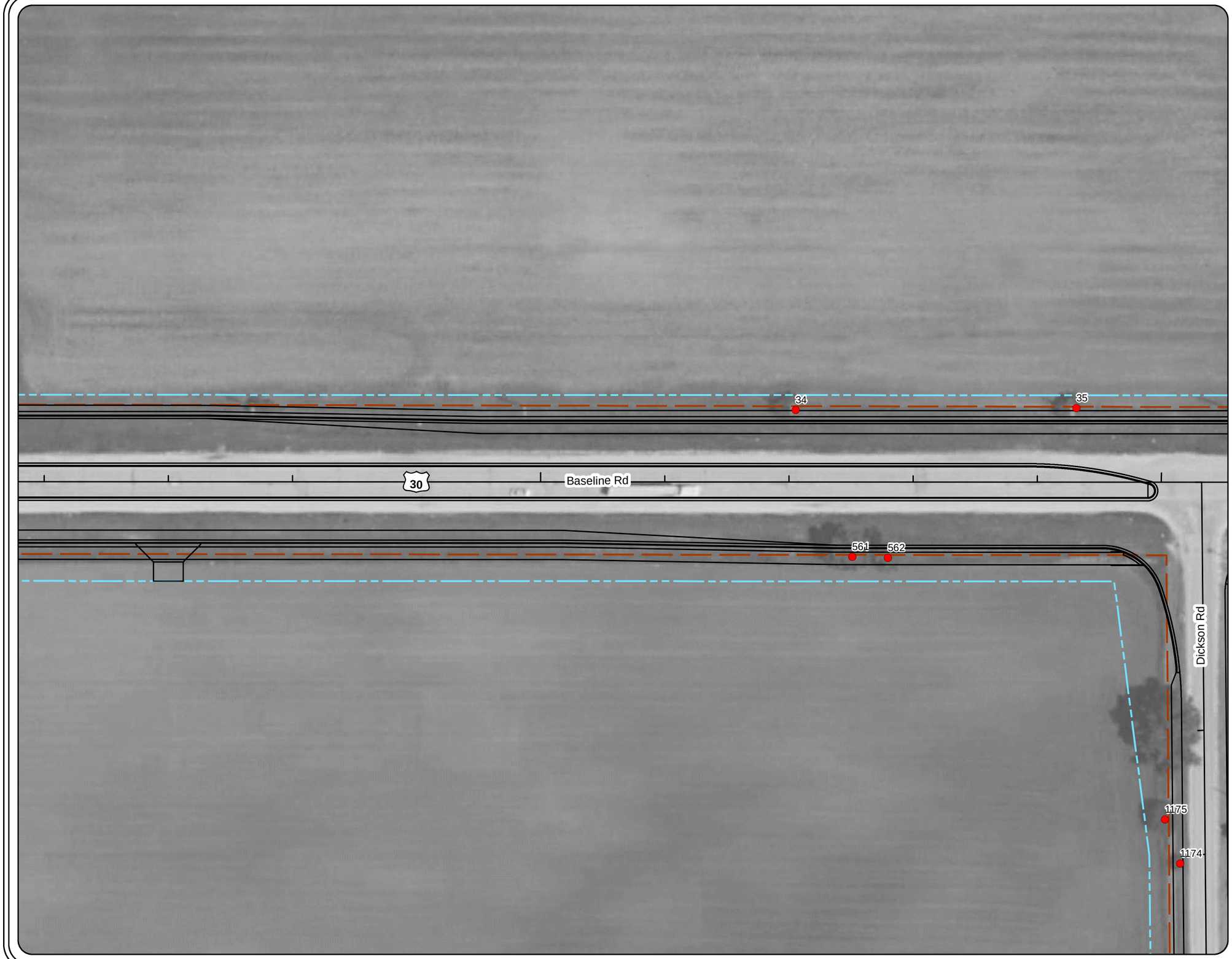


Exhibit 6
US30
Tree Survey and Impacts
February 20, 2017

US30_TreeSurvey_2017_0130.mxd, 2/20/2017



LEGEND

- Proposed Design
- Existing Right-of-way
- Proposed Right-of-way

Trees

Design 1/30/17 Impacts:

- Remove

NORTH

0 25 50 100
Feet

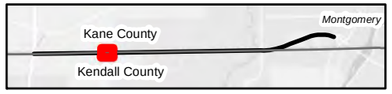
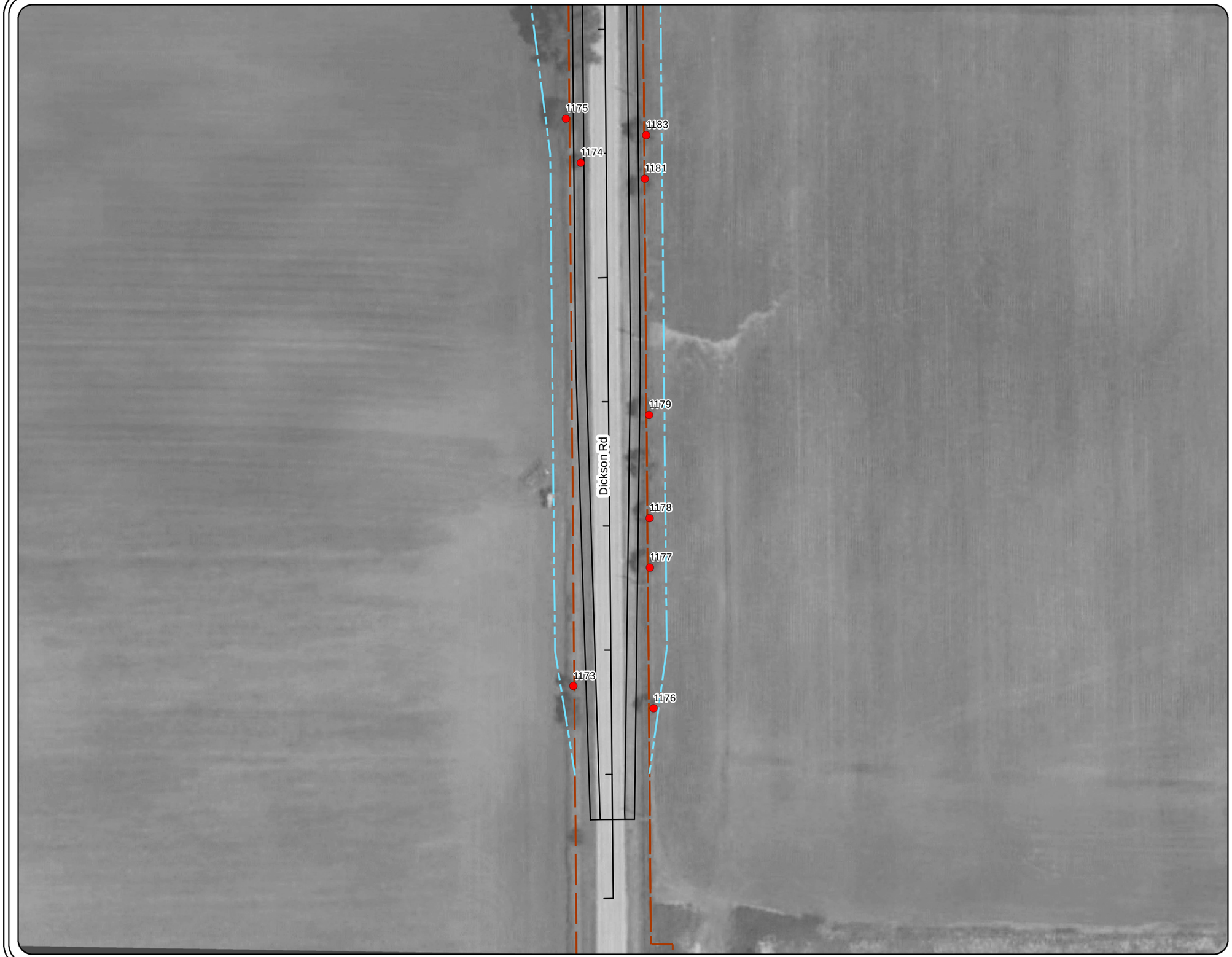


Exhibit 7
US30
Tree Survey and Impacts
February 20, 2017

US30_TreeSurvey_2017_0130.mxd, 2/20/2017



LEGEND

- Proposed Design
- Existing Right-of-way
- Proposed Right-of-way

Trees

Design 1/30/17 Impacts:

- Remove

NORTH

0 25 50 100
Feet

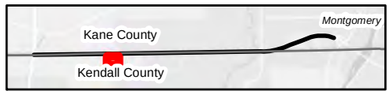


Exhibit 8
US30
Tree Survey and Impacts
February 20, 2017

US30_TreeSurvey_2017_0130.mxd, 2/20/2017

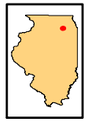
LEGEND

- Proposed Design
- Existing Right-of-way
- Proposed Right-of-way

Trees

Design 1/30/17 Impacts:

- Not Impacted
- Remove



NORTH

0 25 50 100
Feet

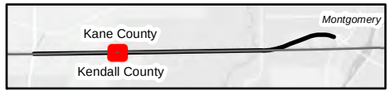


Exhibit 9
US30
Tree Survey and Impacts
February 20, 2017

US30_TreeSurvey_2017_0130.mxd, 2/20/2017

LEGEND

- Proposed Design
- Existing Right-of-way
- Proposed Right-of-way

Trees

Design 1/30/17 Impacts:

- Not Impacted
- Remove

NORTH

0 25 50 100
Feet

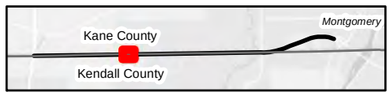


Exhibit 10
US30
Tree Survey and Impacts
February 20, 2017

US30_TreeSurvey_2017_0130.mxd, 2/20/2017

LEGEND

- Proposed Design
- Existing Right-of-way
- Proposed Right-of-way

Trees

Design 1/30/17 Impacts:

- Not Impacted
- Remove

NORTH

0 25 50 100
Feet

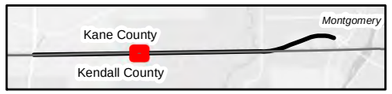


Exhibit 11
US30
Tree Survey and Impacts
February 20, 2017

US30_TreeSurvey_2017_0130.mxd, 2/20/2017

LEGEND

- Proposed Design
- Existing Right-of-way
- Proposed Right-of-way

Trees

Design 1/30/17 Impacts:

- Not Impacted
- Remove

NORTH

0 25 50 100
Feet

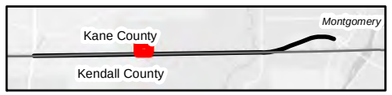


Exhibit 12
US30
Tree Survey and Impacts
February 20, 2017

US30_TreeSurvey_2017_0130.mxd, 2/20/2017

LEGEND

- Proposed Design
- Existing Right-of-way
- Proposed Right-of-way

Trees

Design 1/30/17 Impacts:

- Not Impacted
- Remove

NORTH

0 25 50 100
Feet

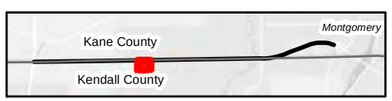
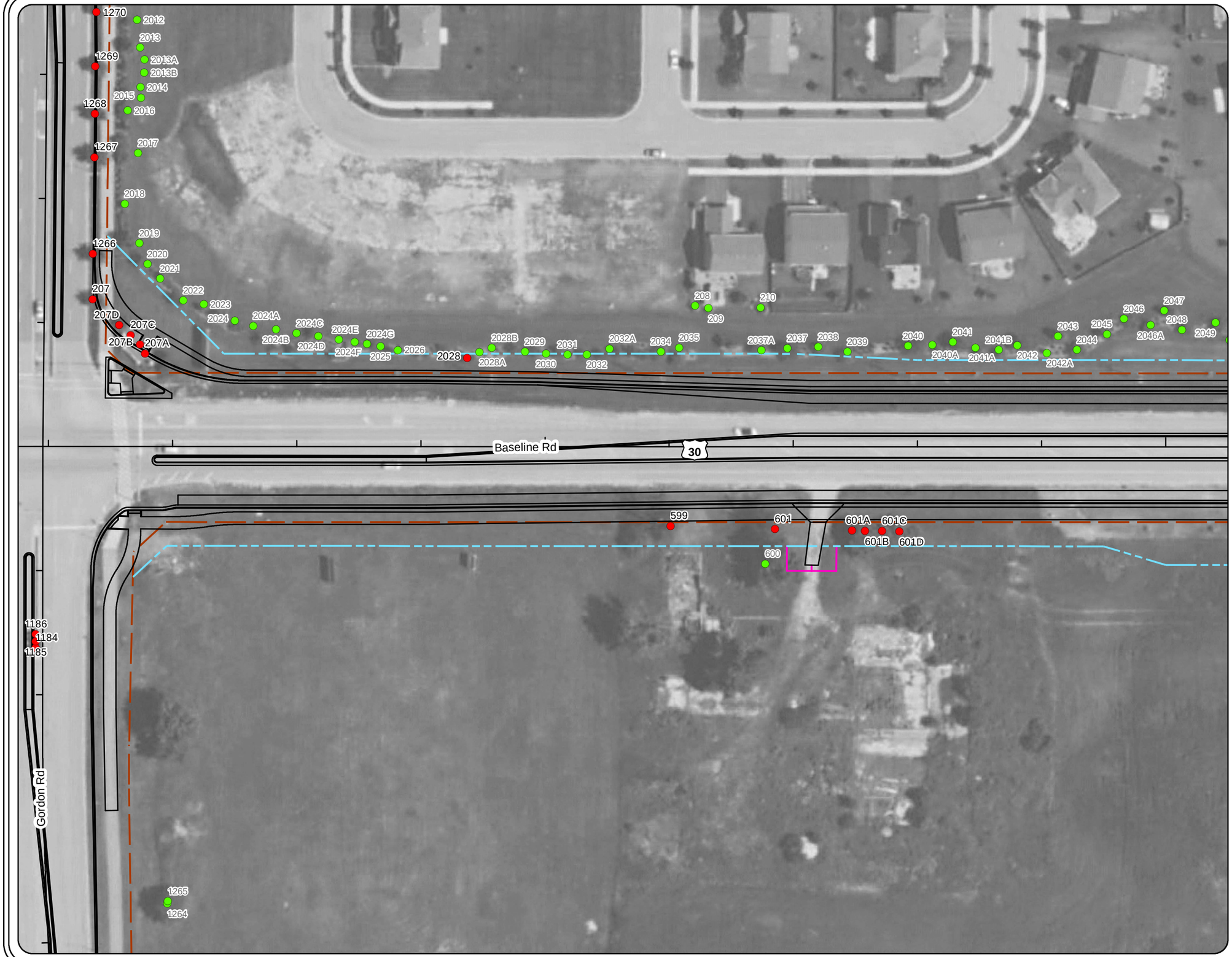


Exhibit 13
US30
Tree Survey and Impacts
February 20, 2017

US30_TreeSurvey_2017_0130.mxd, 2/20/2017



LEGEND

- Proposed Design
- Existing Right-of-way
- Proposed Right-of-way
- Temporary Construction Easement

Trees

Design 1/30/17 Impacts:

- Not Impacted
- Remove

NORTH

0 25 50 100
Feet

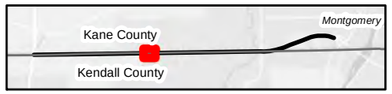
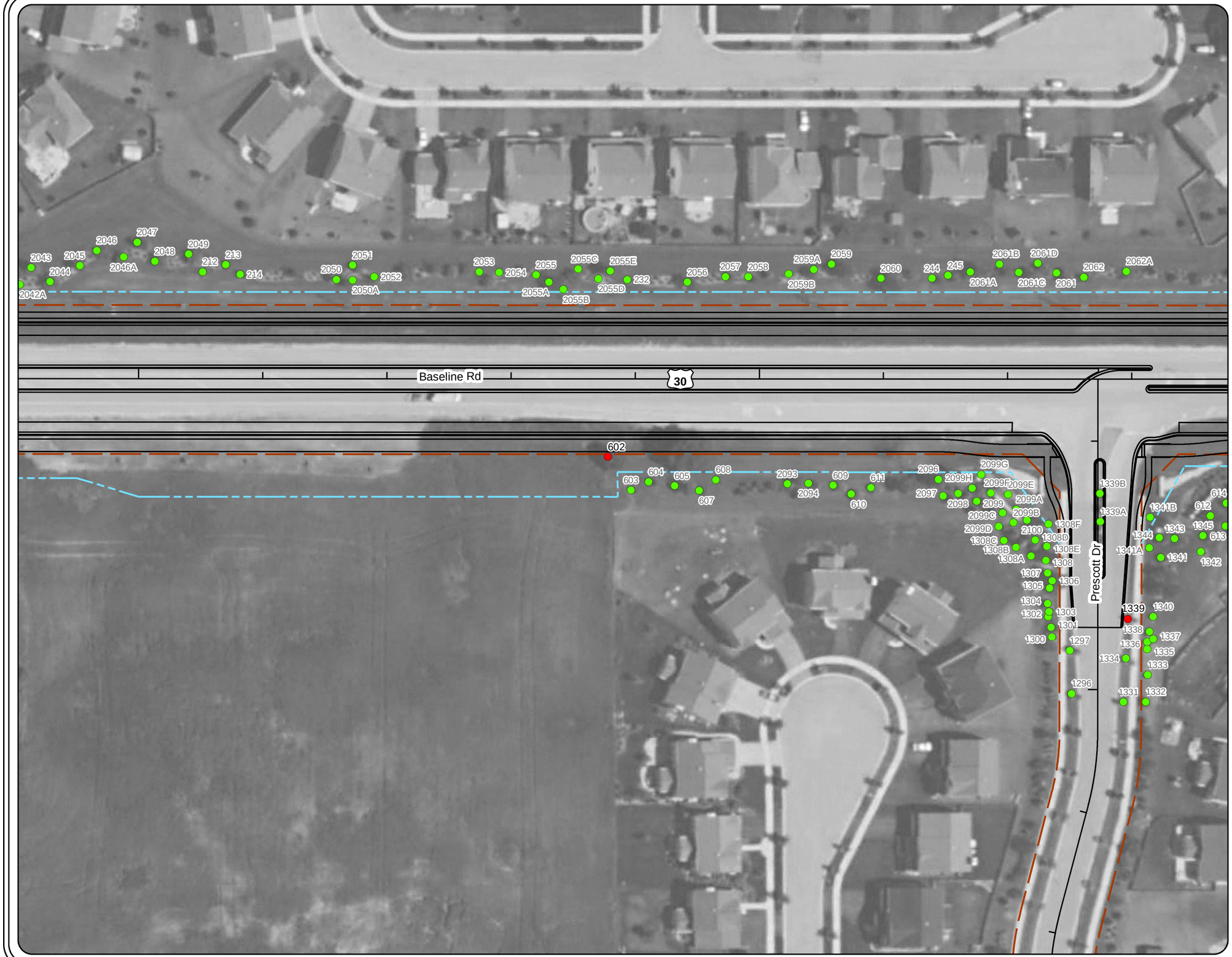


Exhibit 14
US30
Tree Survey and Impacts
February 20, 2017

US30_TreeSurvey_2017_0130.mxd, 2/20/2017



LEGEND

- Proposed Design
- Existing Right-of-way
- Proposed Right-of-way

Trees

Design 1/30/17 Impacts:

- Not Impacted
- Remove

Exhibit 15
US30
Tree Survey and Impacts
February 20, 2017

US30_TreeSurvey_2017_0130.mxd, 2/20/2017

LEGEND

- Proposed Design
- Existing Right-of-way
- Proposed Right-of-way

Trees

Design 1/30/17 Impacts:

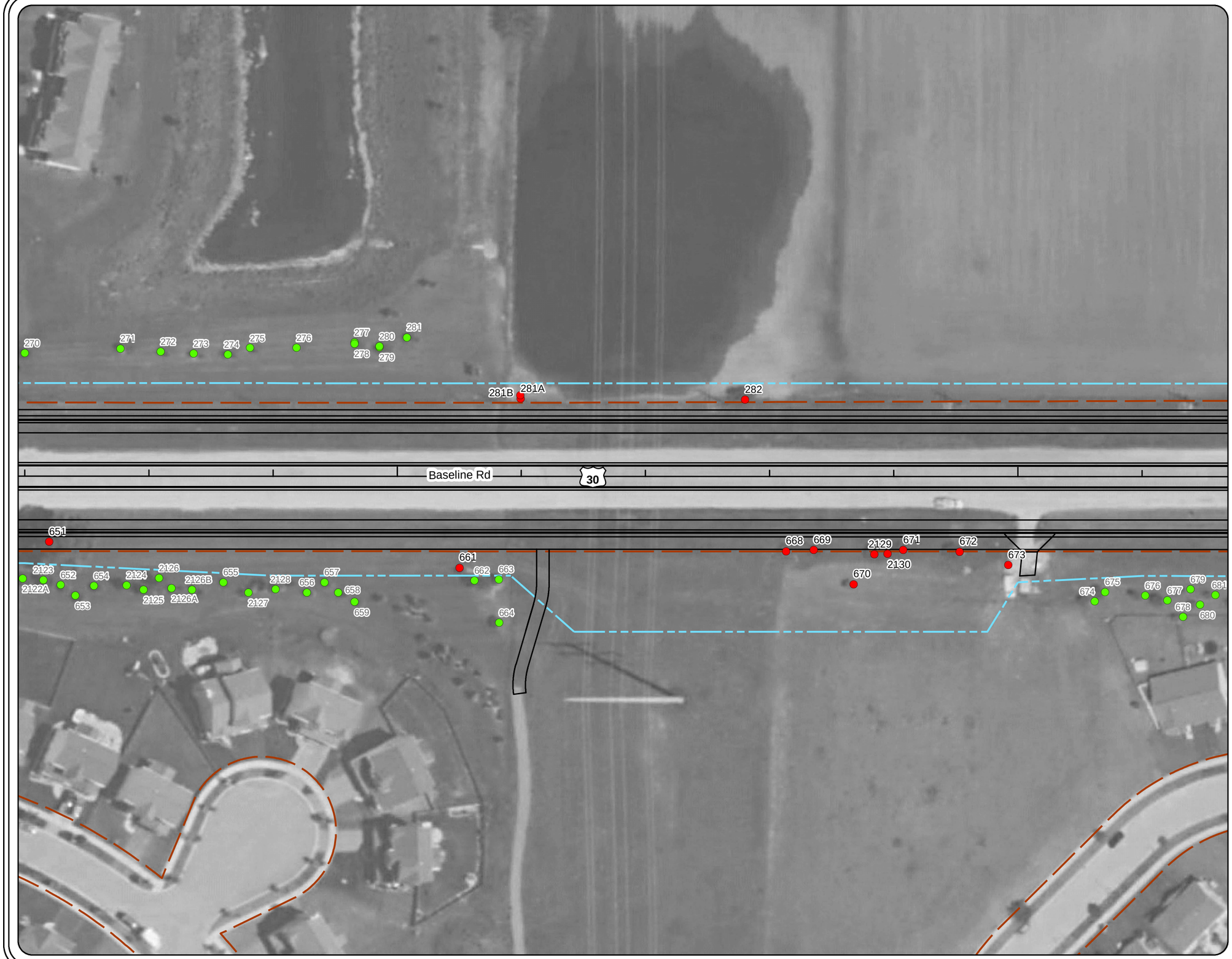
- Not Impacted
- Remove

NORTH

0 25 50 100
Feet

Exhibit 16
US30
Tree Survey and Impacts
February 20, 2017

US30_TreeSurvey_2017_0130.mxd, 2/20/2017



LEGEND

- Proposed Design
- Existing Right-of-way
- Proposed Right-of-way

Trees

Design 1/30/17 Impacts:

- Not Impacted
- Remove

NORTH

0 25 50 100
Feet

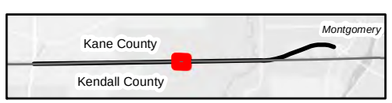
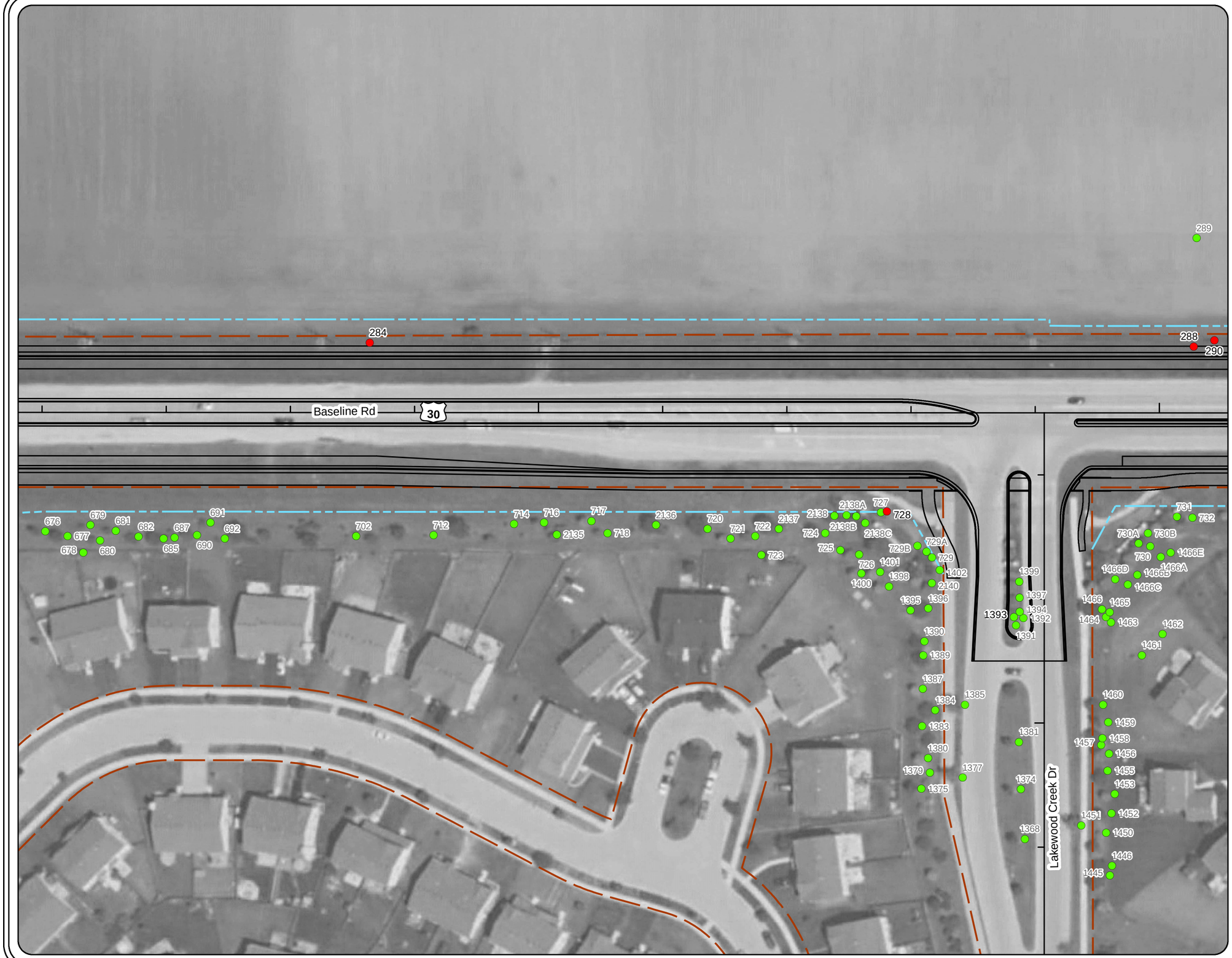


Exhibit 17
US30
Tree Survey and Impacts
February 20, 2017

US30_TreeSurvey_2017_0130.mxd, 2/20/2017



LEGEND

- Proposed Design
- Existing Right-of-way
- Proposed Right-of-way

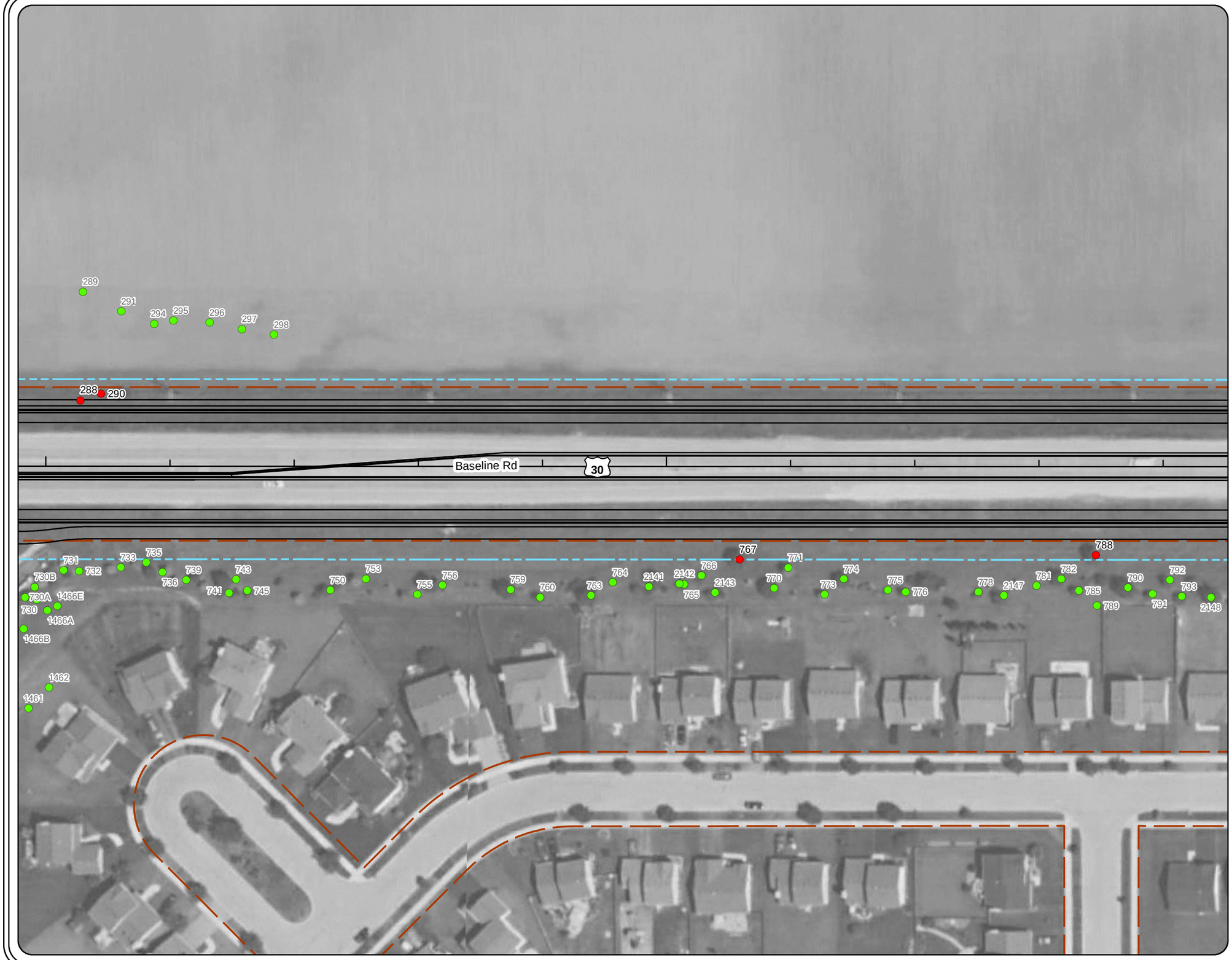
Trees

Design 1/30/17 Impacts:

- Not Impacted
- Remove

Exhibit 18
US30
Tree Survey and Impacts
February 20, 2017

US30_TreeSurvey_2017_0130.mxd, 2/20/2017



LEGEND

- Proposed Design
- Existing Right-of-way
- Proposed Right-of-way

Trees

Design 1/30/17 Impacts:

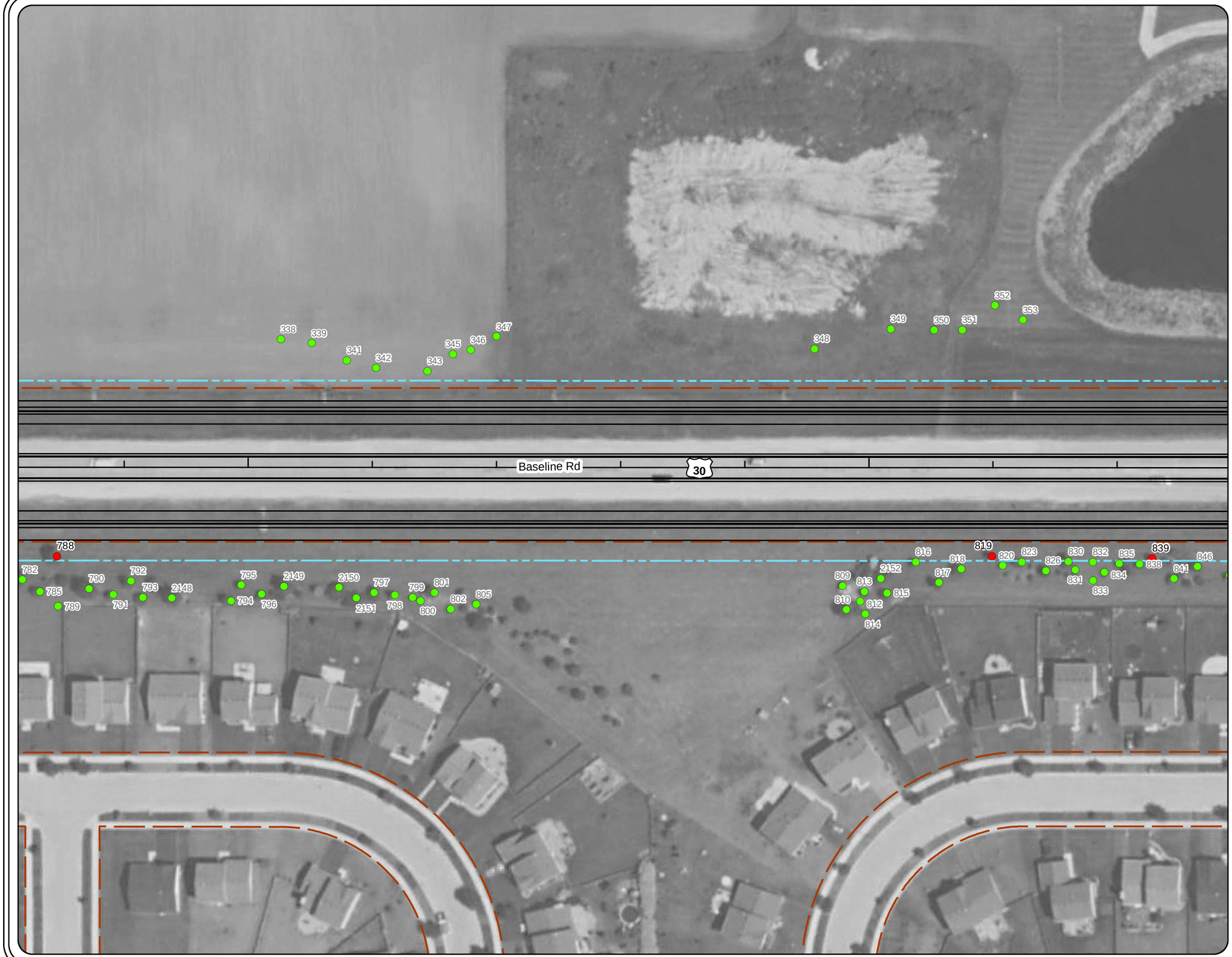
- Not Impacted
- Remove

NORTH

0 25 50 100
Feet

Exhibit 19
US30
Tree Survey and Impacts
February 20, 2017

US30_TreeSurvey_2017_0130.mxd, 2/20/2017



LEGEND

- Proposed Design
- Existing Right-of-way
- Proposed Right-of-way

Trees

Design 1/30/17 Impacts:

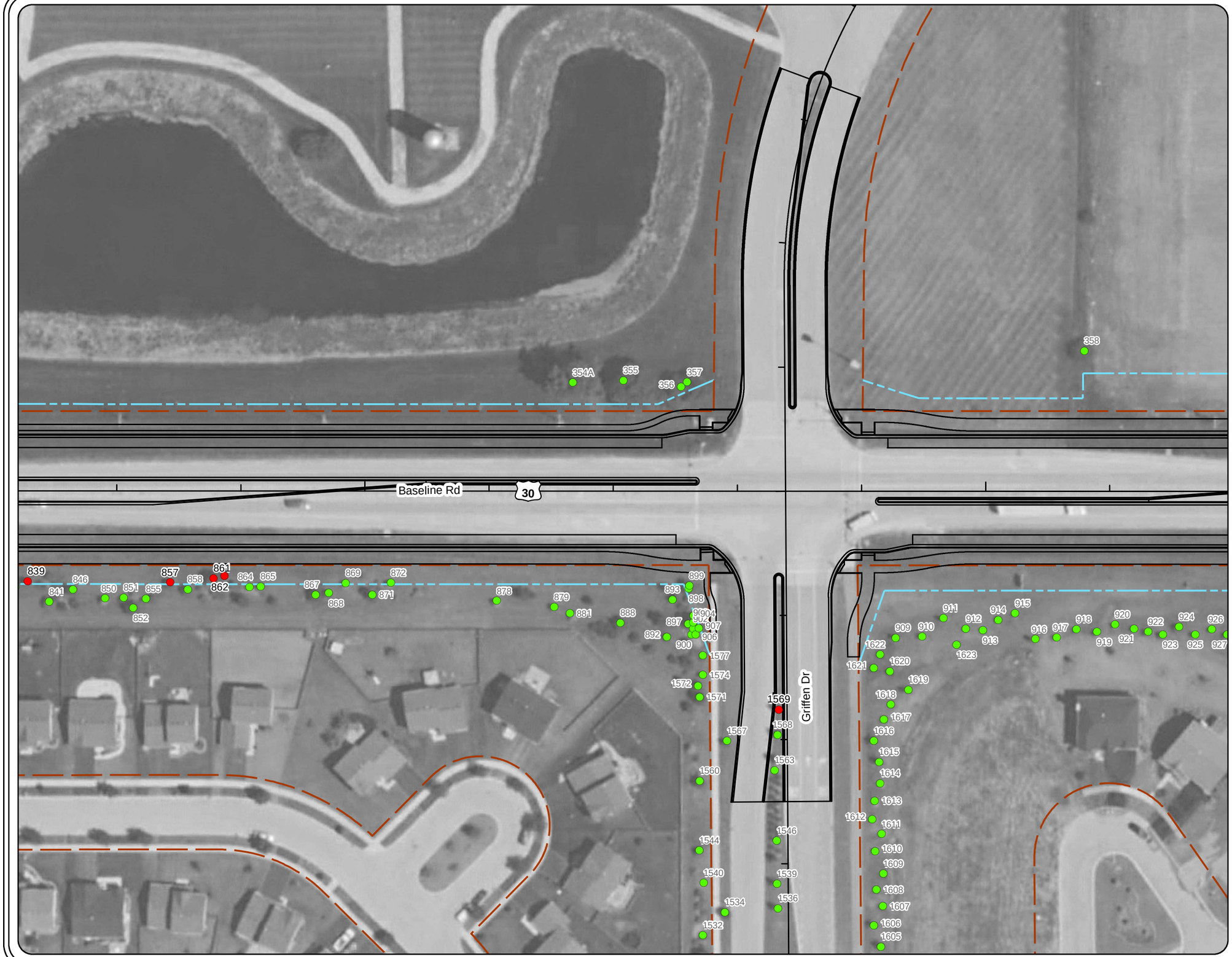
- Not Impacted
- Remove

NORTH

0 25 50 100
Feet

Exhibit 20
US30
Tree Survey and Impacts
February 20, 2017

US30_TreeSurvey_2017_0130.mxd, 2/20/2017



LEGEND

- Proposed Design
- Existing Right-of-way
- Proposed Right-of-way

Trees

Design 1/30/17 Impacts:

- Not Impacted
- Remove

NORTH

0 25 50 100
Feet

Exhibit 21
US30
Tree Survey and Impacts
February 20, 2017

US30_TreeSurvey_2017_0130.mxd, 2/20/2017

LEGEND

- Proposed Design
- Existing Right-of-way
- Proposed Right-of-way

Trees

Design 1/30/17 Impacts:

- Not Impacted
- Remove

NORTH

0 25 50 100
Feet

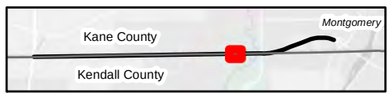
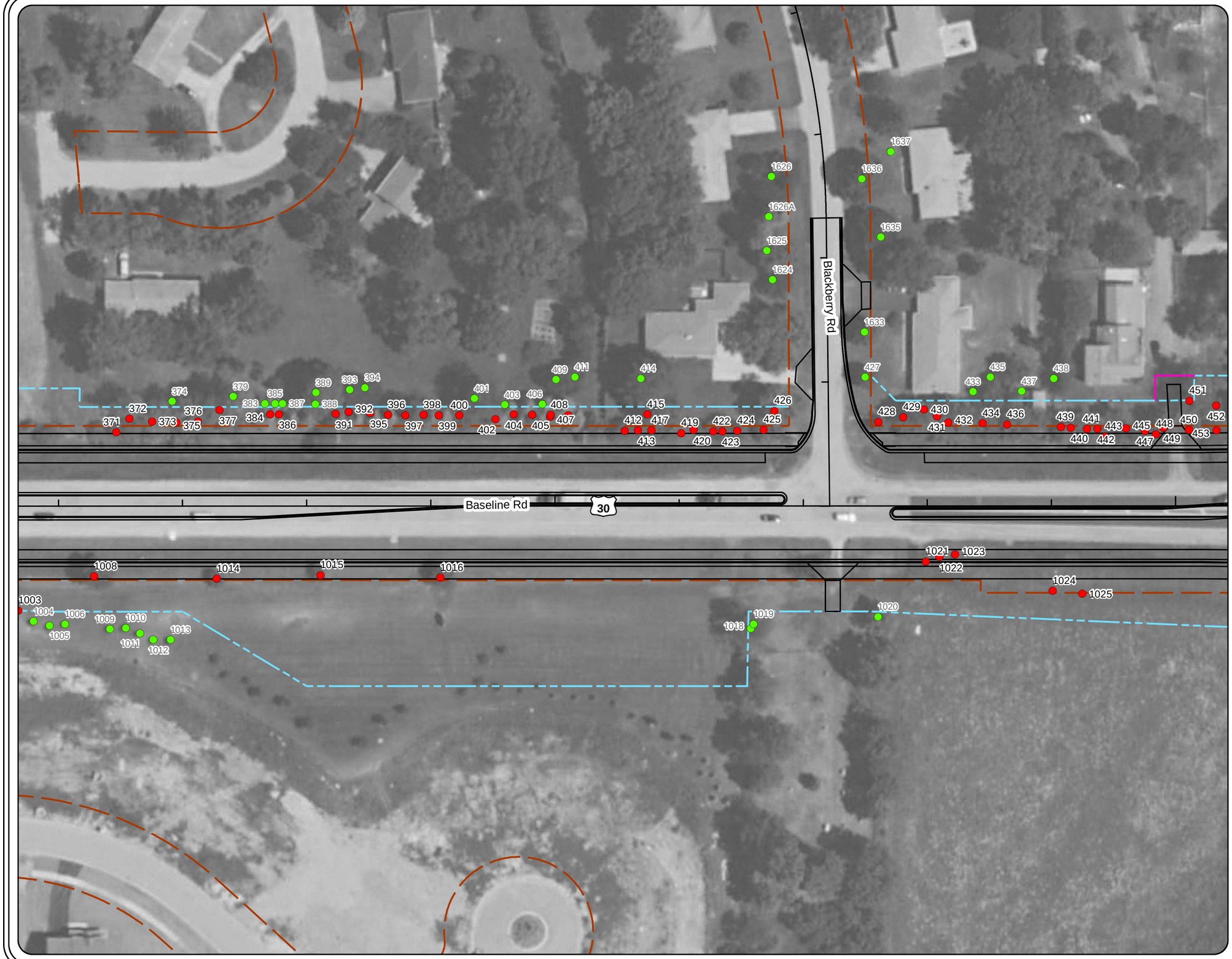


Exhibit 22
US30
Tree Survey and Impacts
February 20, 2017

US30_TreeSurvey_2017_0130.mxd, 2/20/2017



LEGEND

- Proposed Design
- Existing Right-of-way
- Proposed Right-of-way
- Temporary Construction Easement

Trees

Design 1/30/17 Impacts:

- Not Impacted
- Remove

NORTH

0 25 50 100
Feet

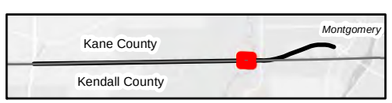
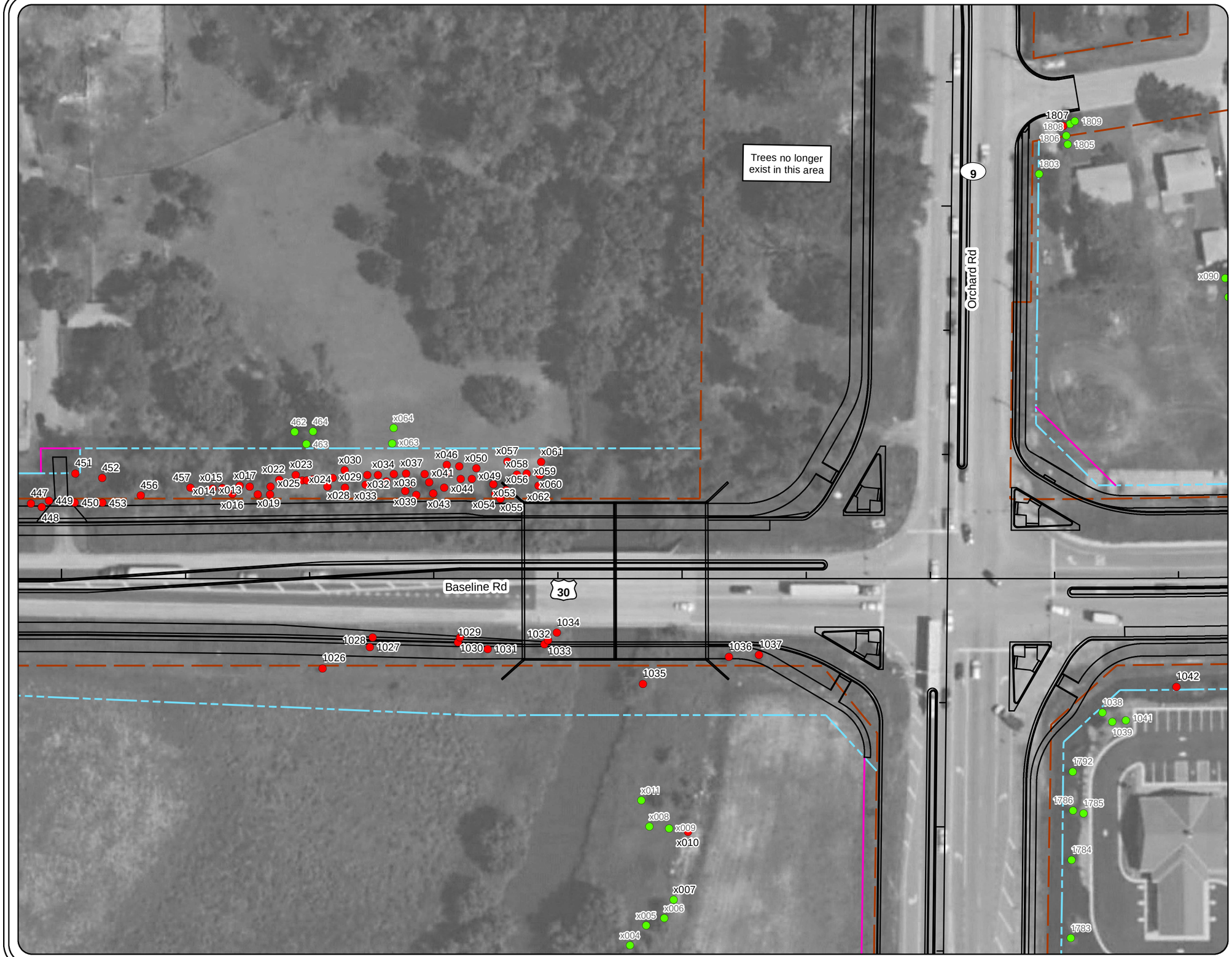


Exhibit 23
US30
Tree Survey and Impacts
February 20, 2017

US30_TreeSurvey_2017_0130.mxd, 2/20/2017



LEGEND

- Proposed Design
- Existing Right-of-way
- Proposed Right-of-way
- Temporary Construction Easement

Trees

Design 1/30/17 Impacts:

- Not Impacted
- Remove

NORTH

0 25 50 100
Feet

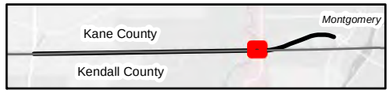
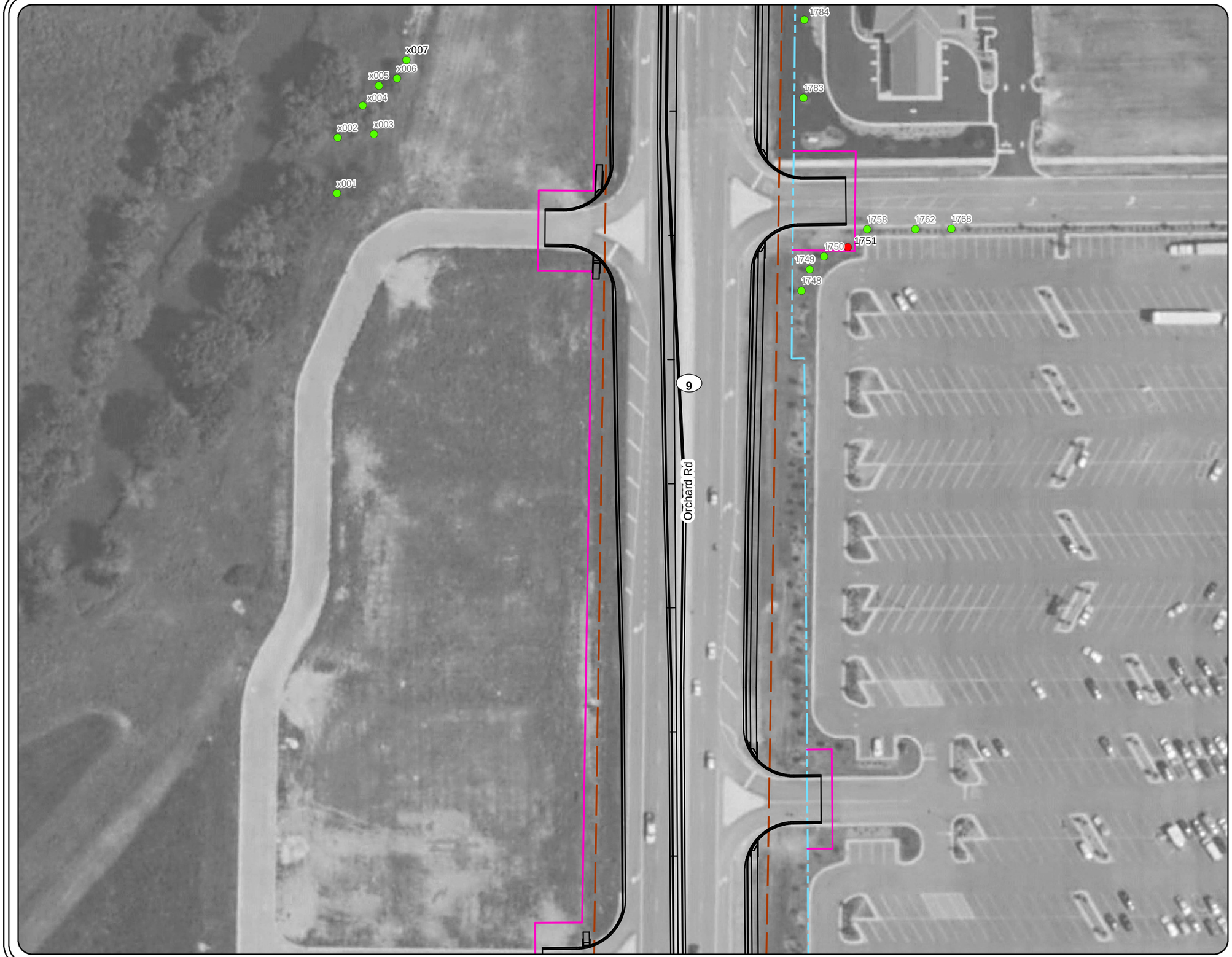


Exhibit 24
US30
Tree Survey and Impacts
February 20, 2017

US30_TreeSurvey_2017_0130.mxd, 2/20/2017



LEGEND

- Proposed Design
- Existing Right-of-way
- Proposed Right-of-way
- Temporary Construction Easement

Trees

Design 1/30/17 Impacts:

- Not Impacted
- Remove

NORTH

0 25 50 100
Feet

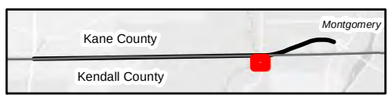
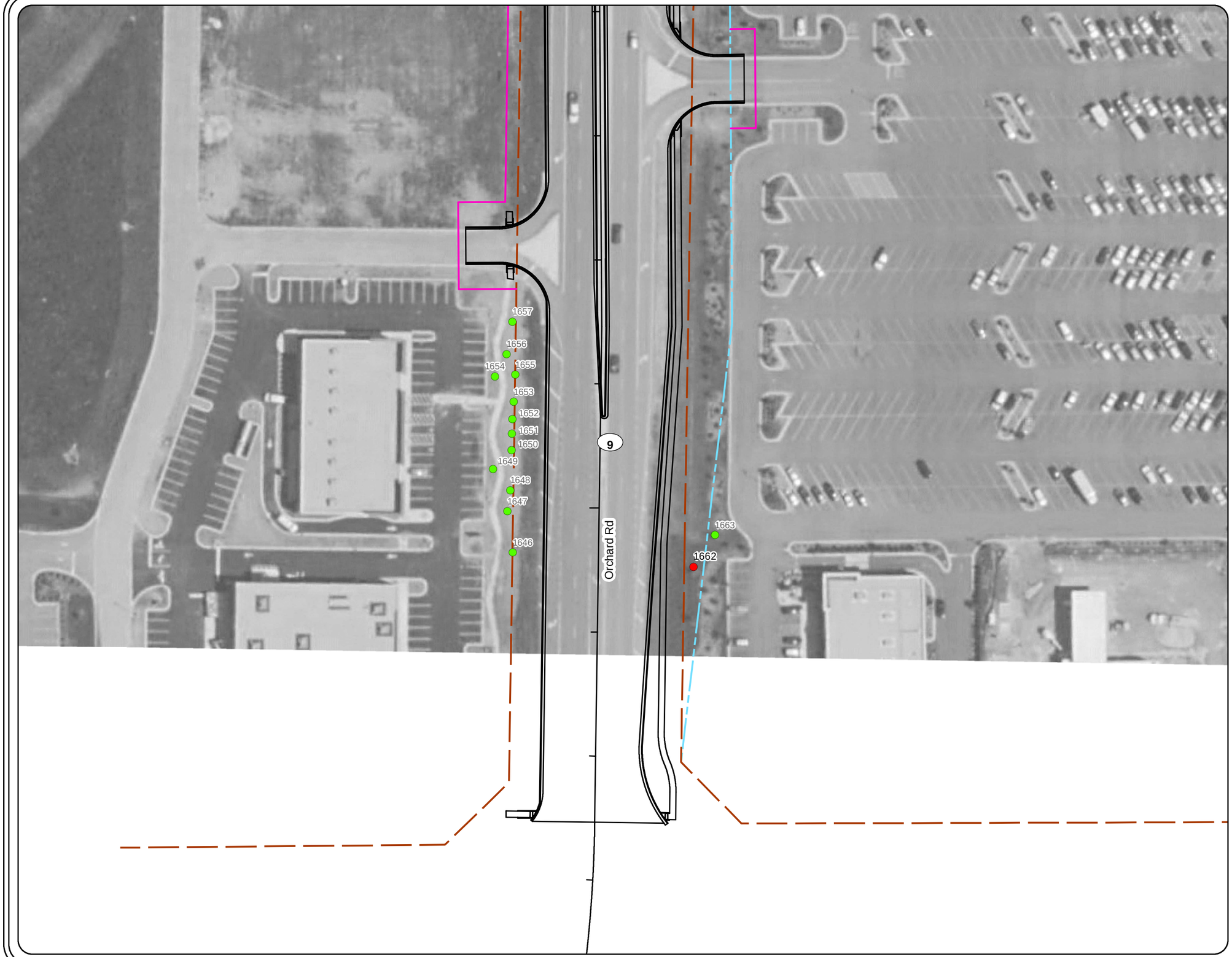


Exhibit 25
US30
Tree Survey and Impacts
February 20, 2017

US30_TreeSurvey_2017_0130.mxd, 2/20/2017



LEGEND

- Proposed Design
- Existing Right-of-way
- Proposed Right-of-way
- Temporary Construction Easement

Trees

Design 1/30/17 Impacts:

- Not Impacted
- Remove

NORTH

0 25 50 100
Feet

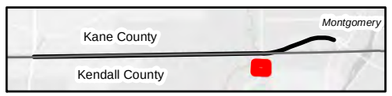
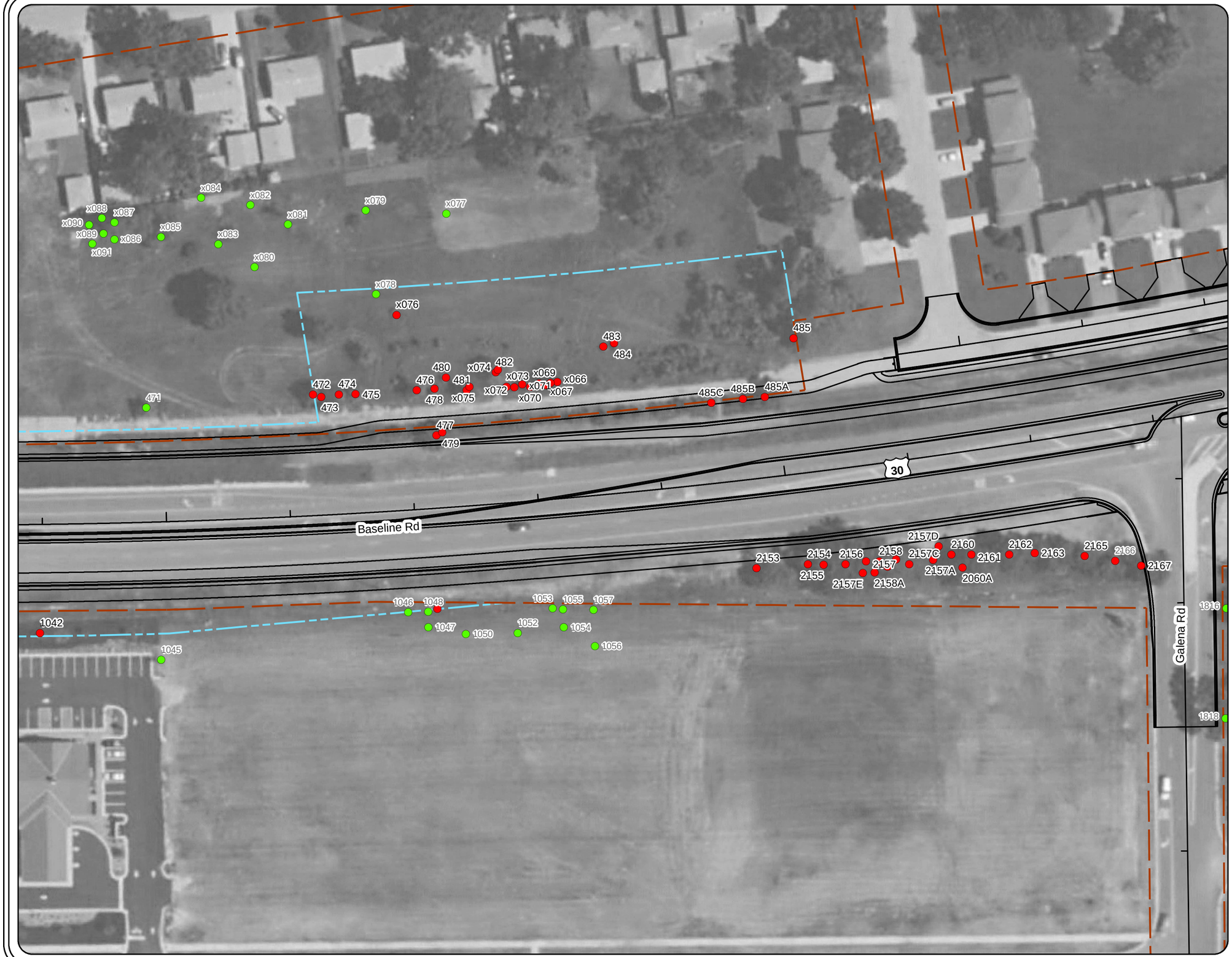


Exhibit 26
US30
Tree Survey and Impacts
February 20, 2017

US30_TreeSurvey_2017_0130.mxd, 2/20/2017



LEGEND

- Proposed Design
- Existing Right-of-way
- Proposed Right-of-way

Trees

Design 1/30/17

- Not Impacted
- Remove

NORTH

0 25 50 100
Feet

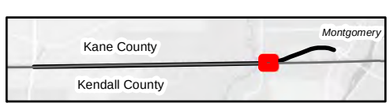
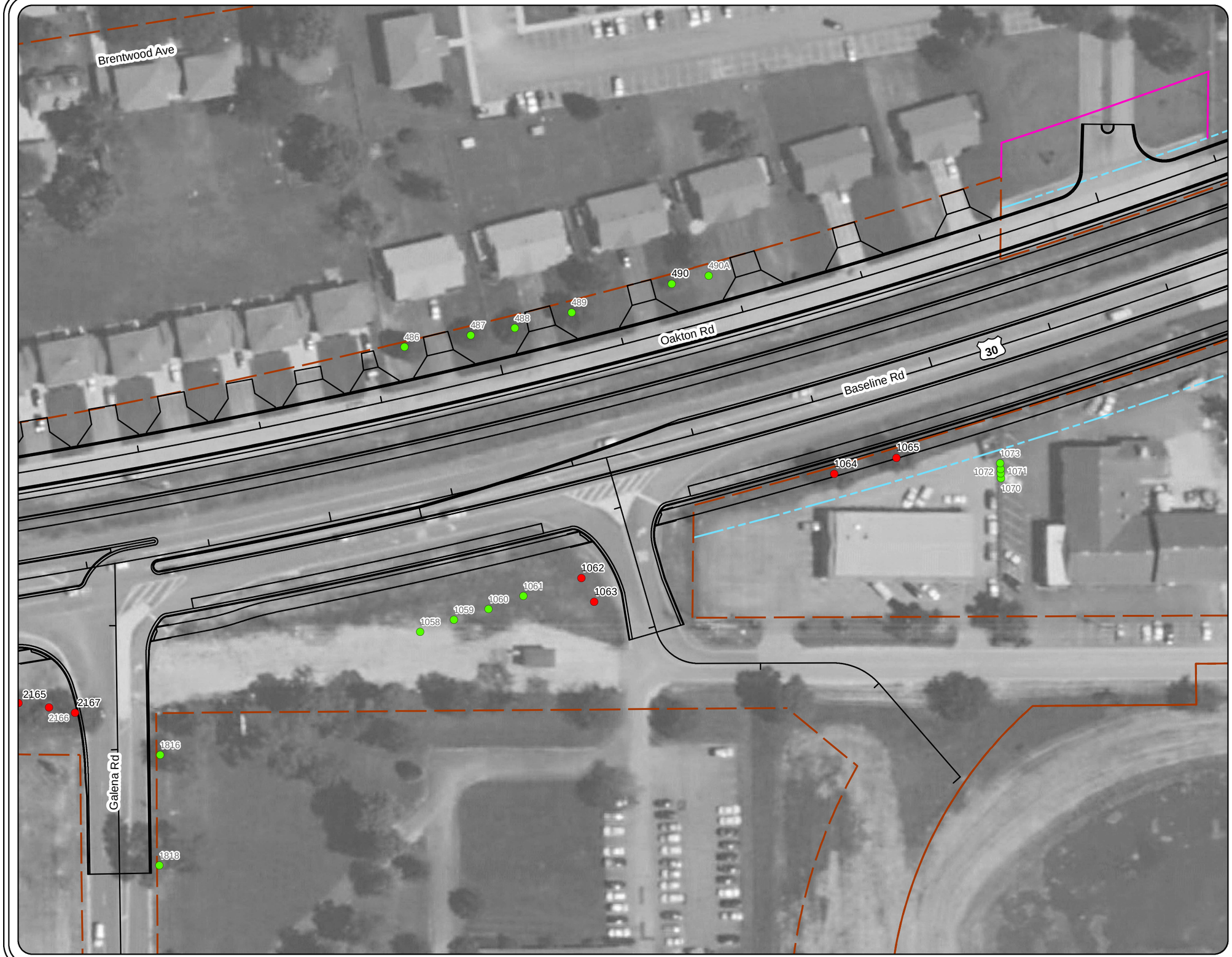


Exhibit 27
US30
Tree Survey and Impacts
February 20, 2017

US30_TreeSurvey_2017_0130.mxd, 2/20/2017



LEGEND

- Proposed Design
- Existing Right-of-way
- Proposed Right-of-way
- Temporary Construction

Trees

Design 1/30/17 Impacts:

- Not Impacted
- Remove

NORTH

0 25 50 100
Feet

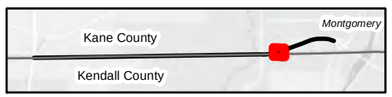
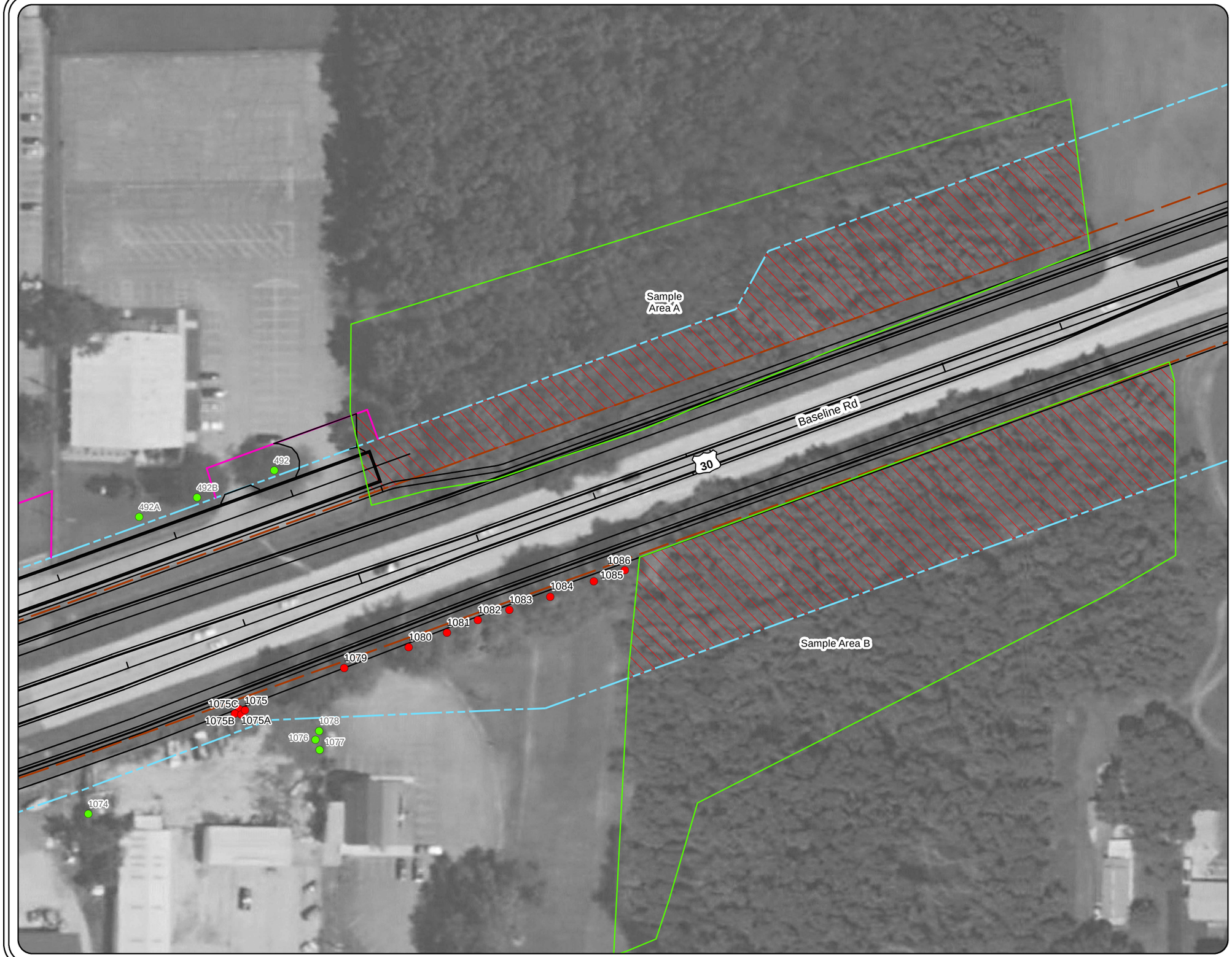


Exhibit 28
US30
Tree Survey and Impacts
February 20, 2017

US30_TreeSurvey_2017_0130.mxd, 2/20/2017



LEGEND

- Proposed Design
- Wooded Area
- Wooded Area,
- Existing Right-of-way
- Proposed Right-of-way
- Temporary Construction Easement

Trees

Design 1/30/17 Impacts:

- Not Impacted
- Remove

NORTH

0 25 50 100
Feet

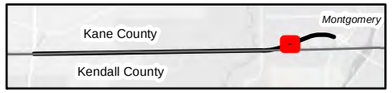
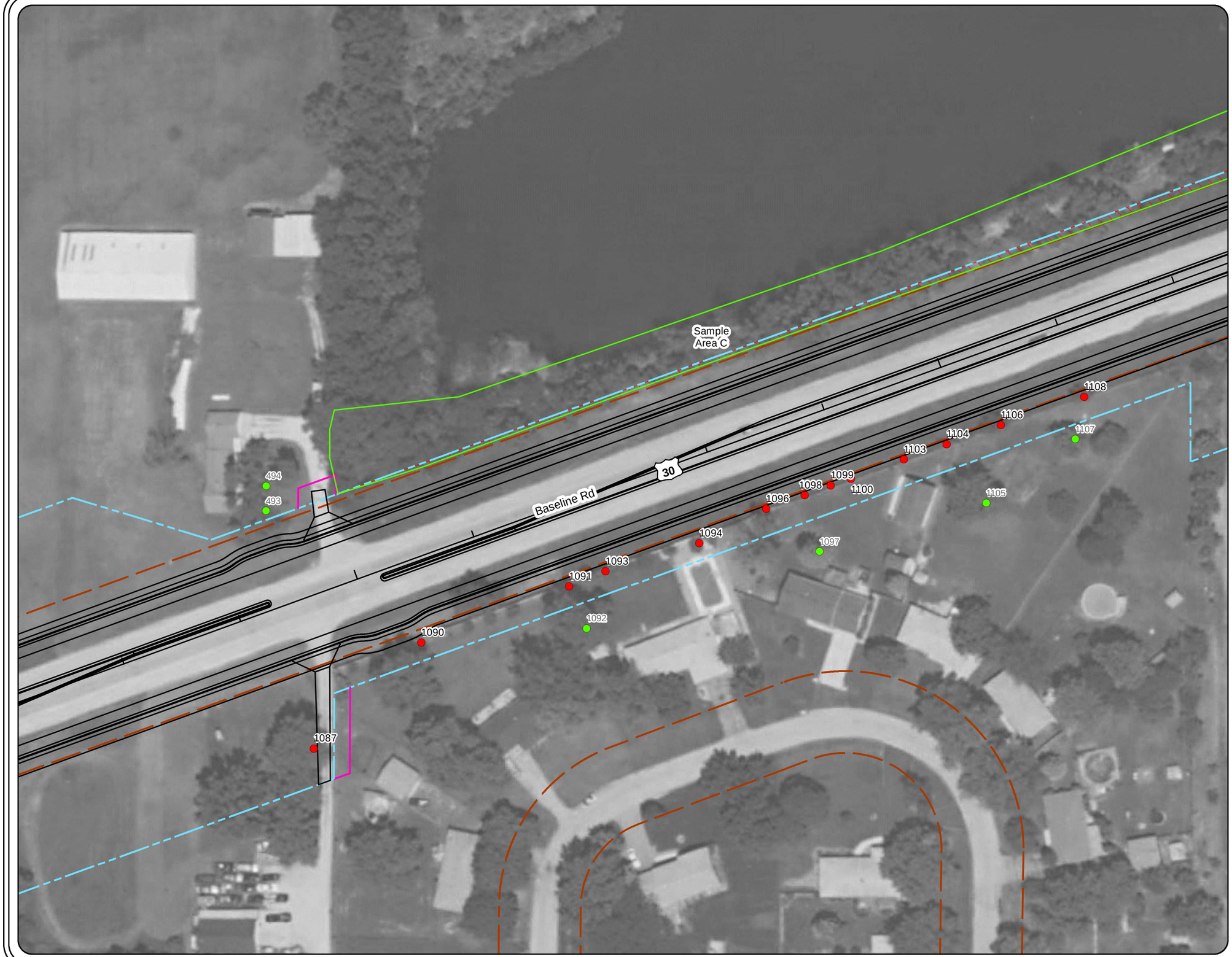


Exhibit 29
US30
Tree Survey and Impacts
February 20, 2017

US30_TreeSurvey_2017_0130.mxd, 2/20/2017



LEGEND

- Proposed Design
- Wooded Area
- Wooded Area,
- Existing Right-of-way
- Proposed Right-of-way
- Temporary Construction Easement

Trees

Design 1/30/17 Impacts:

- Not Impacted
- Remove

NORTH

0 25 50 100
Feet

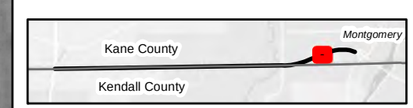
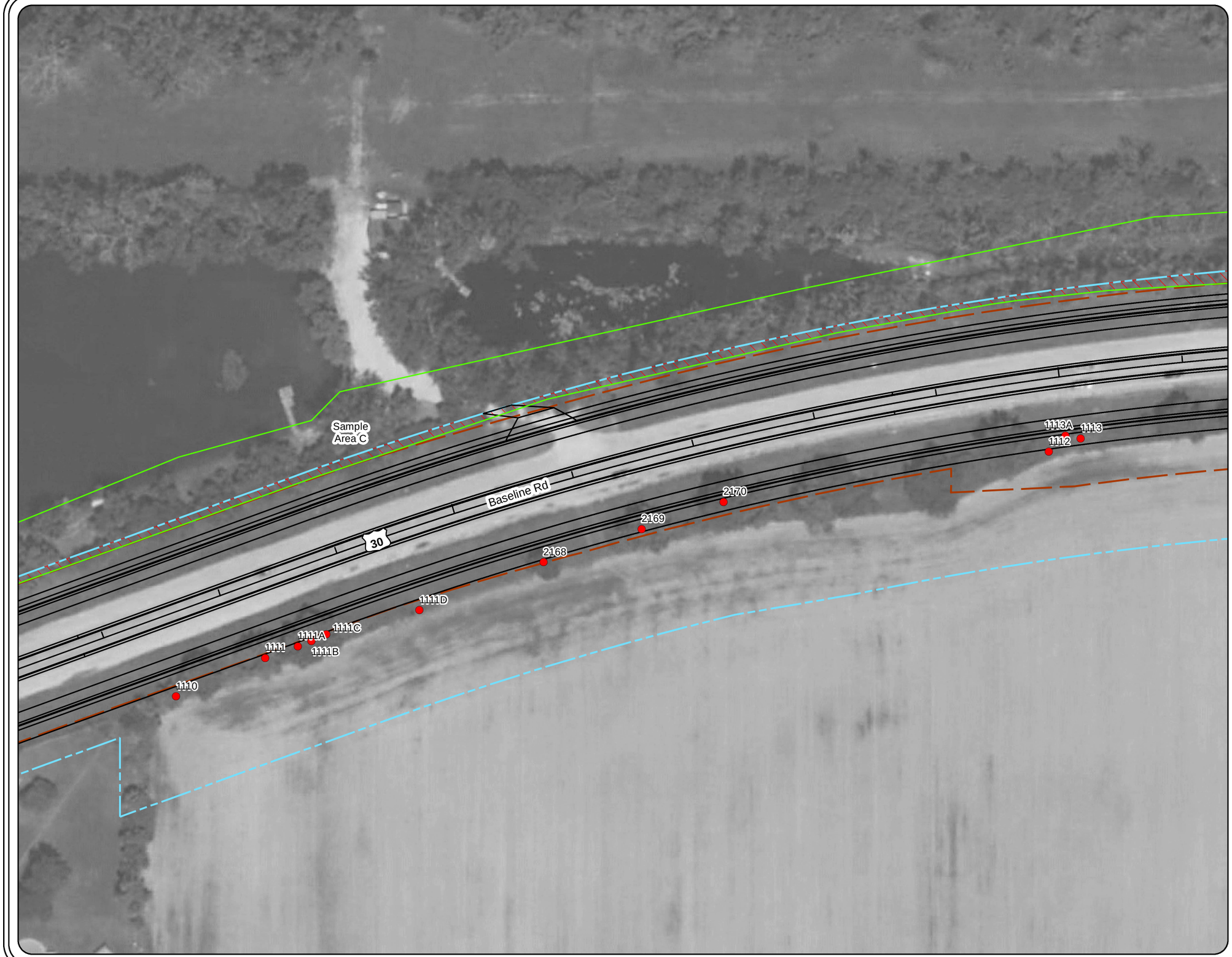


Exhibit 30
US30
Tree Survey and Impacts
February 20, 2017

US30_TreeSurvey_2017_0130.mxd, 2/20/2017



LEGEND

- Proposed Design
- Wooded Area
- Wooded Area, Impacted
- Existing Right-of-way
- Proposed Right-of-way

Trees

Design 1/30/17 Impacts:

- Remove

NORTH

0 25 50 100
Feet

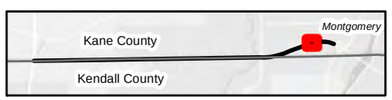
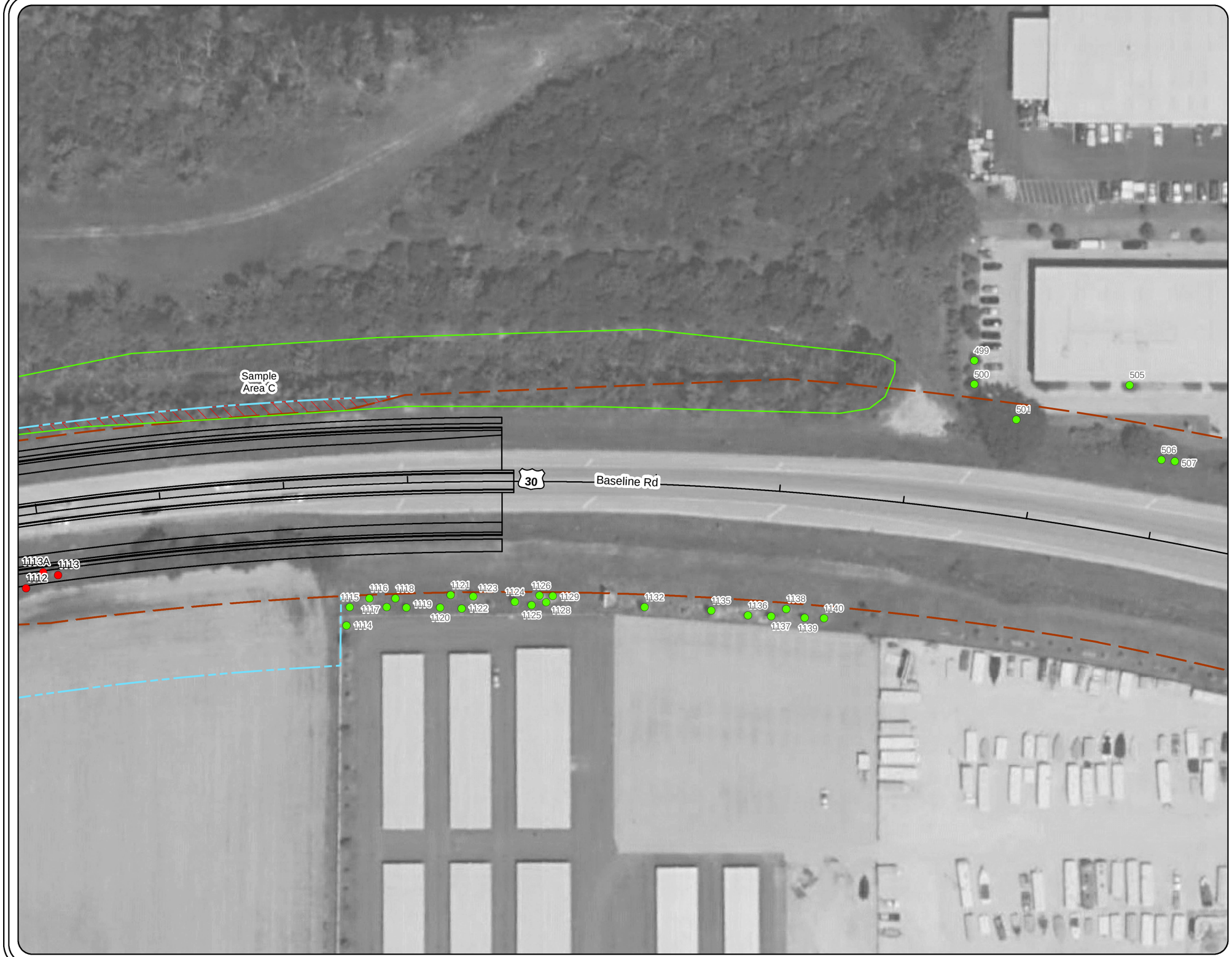


Exhibit 31
US30
Tree Survey and Impacts
February 20, 2017

US30_TreeSurvey_2017_0130.mxd, 2/20/2017



LEGEND

- Proposed Design
- Wooded
- Wooded Area,
- Existing Right-of-way
- Proposed Right-of-way

Trees

Design 1/30/17

- Not Impacted
- Remove

NORTH

0 25 50 100
Feet

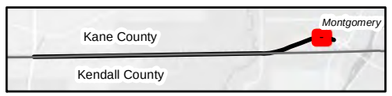


Exhibit 32
US30
Tree Survey and Impacts
February 20, 2017

US30_TreeSurvey_2017_0130.mxd, 2/20/2017

Appendix B

Direct Count Survey

Right Offsets

US 30: IL 47 to IL 31

Right Offsets **Tree Survey**

Road	Tree Number	Station	Offset	Size (in)	Type	Health	Structure	Comment	Recommended Action	Impact
RTE 30	518	1012+71.41	64.15	20	Hackberry	F	F	Fence line	Remove	Roadway improvements
RTE 30	518A	1018+03.58	54.62	46	Siberian Elm	F	F	Fence line	Remove	Roadway improvements
RTE 30	519	1020+33.81	60.41	16	Black Locust	F	F	Fence line	Remove	Roadway improvements
RTE 30	520	1024+64.25	60.68	16	Box Elder Maple	F	F	Fence line	Remove	Roadway improvements
RTE 30	520A	1035+37.72	33.53	8	Black Locust	F	F	Fence line	Remove	Roadway improvements
RTE 30	520B	1035+61.11	95.23	18	Black Locust	F	F	Under powerline		
RTE 30	521	1040+32.51	136.43	18	American Elm	G	G			
RTE 30	522	1040+32.68	70.74	30	American Elm	G	G		Remove	Roadway improvements
RTE 30	523	1040+33.77	98.22	36	American Elm	G	G			
RTE 30	524	1040+34.33	112.91	30	American Elm	G	G			
RTE 30	525	1040+35.63	55.98	36	American Elm	G	G		Remove	Roadway improvements
RTE 30	526	1040+62.50	112.72	36	American Elm	G	G			
RTE 30	527	1040+62.72	69.63	36	American Elm	G	G		Remove	Roadway improvements
RTE 30	528	1040+63.08	141.43	30	American Elm	G	G			
RTE 30	529	1040+65.16	100.5	30	American Elm	G	G			
RTE 30	535	1041+55.75	80.36	30	Apple	G	G			
RTE 30	536	1042+49.50	140.49	30	Silver Maple	G	G			
RTE 30	537	1042+49.59	119.31	30	Silver Maple	G	G			
RTE 30	539	1050+94.47	60.89	14	Siberian Elm	F	F	Fence line	Remove	Roadway improvements
RTE 30	540	1051+33.56	62.71	20	Black Locust	F	F	Fence line	Remove	Roadway improvements
RTE 30	541	1052+77.47	62.9	20	Hackberry	F	F	Fence line	Remove	Roadway improvements
RTE 30	542	1053+25.63	61.46	6	Mulberry	F	F	Fence line	Remove	Roadway improvements
RTE 30	555	1056+71.77	86.55	30	Pine	G	G	50' tall		
RTE 30	556	1057+24.67	107.79	8	Honey Locust	F	F			
RTE 30	557	1057+30.04	93.17	8	Pine	Dead	P	Dead		
RTE 30	557A	1057+72.50	60.84	16	Chinese Elm	F	F	Fence line	Remove	Roadway improvements
RTE 30	557B	1057+92.09	57.31	16	Chinese Elm	F	F	Fence line	Remove	Roadway improvements
RTE 30	557C	1058+12.00	57.62	12	Box Elder Maple	F	F	Fence line	Remove	Roadway improvements
RTE 30	557D	1058+41.33	56	12	Box Elder Maple	F	F	Fence line	Remove	Roadway improvements
RTE 30	557G	1058+49.37	68.3	12	Box Elder Maple	F	F	Fence line	Remove	Roadway improvements
RTE 30	557E	1058+59.22	53.27	12	Box Elder Maple	F	F	Fence line	Remove	Roadway improvements
RTE 30	557F	1058+69.18	53.42	12	Box Elder Maple	F	F	Fence line	Remove	Roadway improvements
RTE 30	557H	1058+75.27	70.33	12	Box Elder Maple	F	F	Fence line	Remove	Roadway improvements
RTE 30	557I	1058+82.15	53.63	12	Box Elder Maple	F	F	Fence line	Remove	Roadway improvements
RTE 30	557J	1059+19.81	53.58	12	Box Elder Maple	F	F	Fence line	Remove	Roadway improvements
RTE 30	557K	1059+31.39	53.78	8	Box Elder Maple	F	F	Fence line	Remove	Roadway improvements
RTE 30	557L	1059+43.36	51.97	10	Box Elder Maple	F	F	Fence line	Remove	Roadway improvements
RTE 30	557O	1059+51.80	67.75	2	Chinese Elm	F	F	Fence line	Remove	Roadway improvements
RTE 30	557M	1059+56.44	52.64	10	Box Elder Maple	F	F	Fence line	Remove	Roadway improvements

Right Offsets

Tree Survey

Road	Tree Number	Station	Offset	Size (in)	Type	Health	Structure	Comment	Recommended Action	Impact
RTE 30	557N	1059+67.70	51.19	10	Box Elder Maple	F	F	Fence line	Remove	Roadway improvements
RTE 30	557P	1059+69.20	66.86	4	Chinese Elm	F	F	Fence line	Remove	Roadway improvements
RTE 30	558	1060+00.78	61.7	6	Box Elder Maple	F	F	Fence line	Remove	Roadway improvements
RTE 30	559	1060+36.89	61.29	8	Box Elder Maple	F	F	Fence line	Remove	Roadway improvements
RTE 30	560	1062+65.46	60.61	10	Silver Maple	F	F	Fence line	Remove	Roadway improvements
RTE 30	561	1072+50.91	60.36	36	Hackberry	F	F	Fence line	Remove	Roadway improvements
RTE 30	562	1072+79.81	61.07	30	Hackberry	F	F	Fence line	Remove	Roadway improvements
RTE 30	563	1076+91.19	61.71	20	Hackberry	G	G	Fence line	Remove	Roadway improvements
RTE 30	564	1077+13.47	61.5	8	Elm	F	F	Fence line	Remove	Roadway improvements
RTE 30	564A	1077+96.26	49.3	16	Siberian Elm	F	F	Fence line	Remove	Roadway improvements
RTE 30	565A	1079+37.79	55.66	8	Hackberry	F	F	Fence line	Remove	Roadway improvements
RTE 30	565B	1079+50.76	55.86	16	Hackberry	F	F	Fence line	Remove	Roadway improvements
RTE 30	566	1080+29.20	59.87	8	Hackberry	F	F	Fence line	Remove	Roadway improvements
RTE 30	567	1080+80.48	61.44	20	Black Locust	G	G	Fence line	Remove	Roadway improvements
RTE 30	51A	1081+56.58	82.23		Hedge Maple	G	G			
RTE 30	52A	1081+82.45	119.71	8	Pine	G	G			
RTE 30	53A	1082+00.76	94.69	6	Callery Pear	G	G	Landscape berm		
RTE 30	2004A	1082+57.00	82.57	8	Pine	G	G	Landscape berm		
RTE 30	2004B	1082+59.50	82.78	8	Pine	G	G	Landscape berm		
RTE 30	2004C	1082+62.00	84.24	8	Pine	G	G	Landscape berm		
RTE 30	65A	1083+91.99	76.41	6	Ash	Dead	P	Dead		
RTE 30	65B	1084+05.53	74.52	6	Ash	Dead	P	Dead		
RTE 30	68A	1084+78.05	99.36	12	Red Maple	G	G			
RTE 30	2092	1086+50.23	82.27	16	Mulberry	G	G			
RTE 30	568	1086+79.41	59.09	16	Ash	F	F		Remove	Roadway improvements
RTE 30	569	1086+97.96	93.63	42	Hackberry	F	G			
RTE 30	570	1087+86.78	95.31	36	Siberian Elm	F	P			
RTE 30	571	1088+06.41	60.16	18	Mulberry	G	G		Remove	Roadway improvements
RTE 30	572	1088+19.32	78.14	20	Spruce	G	G		Remove	Roadway improvements
RTE 30	573	1088+31.85	87.42	24	Sugar Maple	G	G			
RTE 30	574	1088+35.01	106.03	20	Spruce	G	G			
RTE 30	575	1088+37.82	61.66	18	Green Spruce	G	G	Fence line	Remove	Roadway improvements
RTE 30	576	1088+67.32	92.48	12	Pine	G	G	Fence line		
RTE 30	577	1088+72.49	60.4	12	Spruce	F	F	Fence line	Remove	Roadway improvements
RTE 30	578	1088+94.01	60.34	12	Spruce	G	G		Remove	Roadway improvements
RTE 30	579	1089+32.06	79.44	12	Spruce	F	G			
RTE 30	581	1089+51.48	60.74	18	Mulberry	G	G		Remove	Roadway improvements
RTE 30	582	1089+67.48	93.77	24	Sugar Maple	G	G			
RTE 30	583	1089+73.70	90.13	18	Spruce	G	G			

Right Offsets

Tree Survey

Road	Tree Number	Station	Offset	Size (in)	Type	Health	Structure	Comment	Recommended Action	Impact
RTE 30	584	1089+80.49	59.41	12	Spruce	F	F		Remove	Roadway improvements
RTE 30	585	1089+88.68	78.03	8	Pine	G	G			
RTE 30	586	1089+95.16	58.9	24	Spruce	G	G		Remove	Roadway improvements
RTE 30	587	1089+95.28	87.21	8	Spruce	G	G			
RTE 30	588	1092+65.71	65.57	20	Black Locust	F	F	Fence line	Remove	Roadway improvements
RTE 30	589	1093+22.86	55.76	8	Mulberry	F	F	Fence line	Remove	Roadway improvements
RTE 30	590	1093+37.80	55.05	8	Mulberry	F	F	Fence line	Remove	Roadway improvements
RTE 30	591	1096+53.37	52.27	8	Tree of Heaven	F	F	Fence line	Remove	Roadway improvements
RTE 30	592	1096+69.57	50.54	8	Tree of Heaven	F	F	Fence line	Remove	Roadway improvements
RTE 30	593	1097+31.13	56.35	8	Tree of Heaven	F	F	Fence line	Remove	Roadway improvements
RTE 30	594	1097+59.95	61.46	8	Tree of Heaven	F	F	Fence line	Remove	Roadway improvements
RTE 30	189A	1097+73.61	85.24	8	Fir	G	G	Landscape berm		
RTE 30	190A	1097+94.29	75.6	8	Spruce	G	G	Landscape berm		
RTE 30	596	1098+40.04	59.1	10	Black Locust	F	F	Fence line	Remove	Roadway improvements
RTE 30	2008A	1099+53.76	113.65	4	Red Maple	G	G			
RTE 30	597	1099+54.20	62.81	26	Siberian Elm	G	F	Fence line	Remove	Roadway improvements
RTE 30	207B	1101+73.78	55.19	4	Pine	G	G		Remove	Roadway improvements
RTE 30	207A	1102+04.92	52.47	3	Crabapple	G	G		Remove	Roadway improvements
RTE 30	2024A	1102+64.79	97.47	10	Crabapple	G	G			
RTE 30	2024B	1102+83.28	94.46	10	Crabapple	G	G			
RTE 30	2024C	1102+99.77	91.44	12	White Birch	G	G			
RTE 30	2024D	1103+17.26	89.18	4	Pine	G	G			
RTE 30	2024E	1103+33.74	86.41	12	Serviceberry	G	G			
RTE 30	2024F	1103+46.74	84.4	12	White Birch	G	G			
RTE 30	2024G	1103+56.48	82.65	12	White Birch	G	G			
RTE 30	2028A	1104+47.17	76.32	6	English Oak	G	G			
RTE 30	2028B	1104+56.92	79.81	10	Crabapple	G	G			
RTE 30	2032A	1105+51.87	79.22	2	Pine	G	G	Recently planted		
RTE 30	599	1106+01.24	63.64	30	Sycamore	G	G	Under powerline	Remove	Roadway improvements
RTE 30	2037A	1106+74.30	77.86	12	Serviceberry	G	G			
RTE 30	600	1106+77.50	94.17	21	Ash	Dead	P	Dead		
RTE 30	601	1106+85.28	66.35	30	Sycamore	G	G		Remove	Roadway improvements
RTE 30	601A	1107+47.28	67.29	24	Apple Fruit	G	G		Remove	Roadway improvements
RTE 30	601B	1107+57.82	67.45	12	Apple Fruit	G	G		Remove	Roadway improvements
RTE 30	601C	1107+71.61	67.67	20	Apple Fruit	G	G		Remove	Roadway improvements
RTE 30	601D	1107+85.39	67.88	12	Apple Fruit	G	G		Remove	Roadway improvements
RTE 30	2040A	1108+11.98	82.48	8	Crabapple	G	G			
RTE 30	2041A	1108+46.71	80.2	16	Serviceberry	G	G			
RTE 30	2041B	1108+65.44	78.19	16	Serviceberry	G	G			

Right Offsets

Road	Tree Number	Station	Offset	Size (in)	Type	Health	Structure	Comment	Recommended Action	Impact
RTE 30	2042A	1109+04.17	75.9	6	Fir	G	G			
RTE 30	2046A	1109+87.89	98.07	12	Crabapple	G	G			
RTE 30	215A	1111+20.60	113.78	10	White Birch	G	G			
RTE 30	2050A	1111+72.27	79.66	3	Pine	G	G	Recently planted		
RTE 30	2055A	1113+30.44	78.02	8	Crabapple	G	G			
RTE 30	2055B	1113+41.92	72.01	14	Crabapple	G	G			
RTE 30	2055C	1113+53.93	88.49	10	Pine	G	G			
RTE 30	2055D	1113+70.17	80.73	16	Ash	G	G			
RTE 30	602	1113+78.10	62.87	36	Mulberry	G	G		Remove	Roadway improvements
RTE 30	2055E	1113+79.92	86.97	12	Crabapple	G	G			
RTE 30	603	1113+96.64	89.53	10	Chokeberry	G	F			
RTE 30	604	1114+10.69	82.85	10	Fir	G	G			
RTE 30	605	1114+31.74	86.01	12	Norway Maple	G	G			
RTE 30	607	1114+51.52	89.64	10	Fir	G	G			
RTE 30	608	1114+65.09	81.05	8	Chokeberry	F	F			
RTE 30	2093	1115+22.53	84.53	12	Chokeberry	G	G			
RTE 30	2059B	1115+23.58	84.59	8	Fir	G	G			
RTE 30	2094	1115+39.56	83.83	12	Chokeberry	G	G			
RTE 30	2059A	1115+43.83	88.32	12	Serviceberry	G	G			
RTE 30	609	1115+59.50	85.69	10	Norway Maple	G	G			
RTE 30	610	1115+73.95	92.65	12	Fir	G	G			
RTE 30	611	1115+89.83	87.4	12	Fir	G	G			
RTE 30	2096	1116+44.27	80.65	18	Crabapple	G	G			
RTE 30	2097	1116+48.23	93.88	18	Crabapple	G	G			
RTE 30	2098	1116+60.14	92.14	18	Crabapple	G	G			
RTE 30	2061A	1116+70.00	86.21	12	Honey Locust	G	G			
RTE 30	2099	1116+75.13	98.15	12	Norway Maple	G	G			
RTE 30	2061B	1116+93.50	92.68	10	Pine	G	G			
RTE 30	2061C	1117+08.98	85.92	16	Crabapple	G	G			
RTE 30	2100	1117+15.58	113.28	10	Elm	G	G			
RTE 30	2061D	1117+24.23	93.4	6	Serviceberry	G	G			
RTE 30	2062A	1117+95.69	86.84	10	White Birch	G	G			
RTE 30	612	1118+63.41	109.86	12	Ash	P	F	EAB present		
RTE 30	613	1118+75.69	118.21	8	Spruce	G	G			
RTE 30	614	1118+76.24	99.91	8	Spruce	G	G			
RTE 30	615	1118+81.23	89.03	8	Spruce	G	G			
RTE 30	616	1118+86.95	105.91	8	Spruce	G	G			
RTE 30	617	1118+89.39	94.87	10	Ash	P	F	EAB present		
RTE 30	618	1118+91.30	85.93	8	Spruce	G	G			

Right Offsets

Road	Tree Number	Station	Offset	Size (in)	Type	Health	Structure	Comment	Recommended Action	Impact
RTE 30	619	1118+93.81	72.26	12	River Birch	G	G			
RTE 30	620	1118+98.45	81.04	12	River Birch	F	G			
RTE 30	621	1119+01.09	100.22	12	River Birch	G	G			
RTE 30	622	1119+03.18	90.46	12	River Birch	G	G			
RTE 30	2067A	1119+20.14	108.47	10	Crabapple	G	G			
RTE 30	623	1119+64.16	81.78	20	Crabapple	G	G			
RTE 30	2068A	1119+66.20	122.41	4	Pine	G	G			
RTE 30	624	1119+75.44	90.95	20	Crabapple	G	G			
RTE 30	2068B	1119+76.47	110.48	10	Serviceberry	G	G			
RTE 30	2068C	1119+86.74	99.78	16	Red Maple	G	G			
RTE 30	625	1119+90.28	81.71	20	Crabapple	G	G			
RTE 30	2068D	1120+00.30	89.08	3	Serviceberry	G	F			
RTE 30	626	1120+07.72	76.33	12	Fir	G	G			
RTE 30	627	1120+23.53	73.63	12	Fir	G	G			
RTE 30	252A	1120+36.47	86.99	8	Spruce	G	G			
RTE 30	628	1120+84.38	79.78	10	Fir	G	G			
RTE 30	629	1121+25.31	107.61	8	Red Maple	G	G			
RTE 30	631	1121+47.06	107.49	8	Red Maple	G	G			
RTE 30	2072A	1121+49.24	81.81	12	Magnolia	G	G			
RTE 30	632	1121+53.10	89.76	12	Fir	G	G			
RTE 30	2072B	1121+60.67	83.12	12	Magnolia	G	G			
RTE 30	633	1121+66.03	81.81	12	Fir	G	G			
RTE 30	2105	1121+79.03	88.84	12	Fir	G	G			
RTE 30	2106	1121+99.81	85.68	8	Red Maple	G	G			
RTE 30	2107	1122+25.38	84.43	12	Callery Pear	G	G			
RTE 30	2108	1122+44.19	92.75	14	Pine	G	G			
RTE 30	2074A	1122+58.87	84.35	10	Crabapple	F	G			
RTE 30	2109	1122+72.57	84.52	20	Crabapple	G	G			
RTE 30	641	1123+14.64	86.81	18	Crabapple	G	G			
RTE 30	2077A	1123+28.29	76.82	16	Crabapple	G	G			
RTE 30	2110	1123+31.93	92.46	16	Pine	G	G			
RTE 30	2111	1123+52.58	85.86	10	Callery Pear	G	G			
RTE 30	2078A	1123+62.12	74.81	10	Serviceberry	G	G			
RTE 30	2112	1123+67.55	90.68	16	Crabapple	G	G			
RTE 30	2078B	1123+77.94	75.02	12	Pine	G	G			
RTE 30	2113	1123+80.88	82.63	16	Crabapple	G	G			
RTE 30	2114	1124+03.17	88.3	16	Pine	G	G			
RTE 30	257A	1124+25.85	93.65	16	Honey Locust	G	G			
RTE 30	642	1124+36.49	90.16	10	Fir	G	G			

Right Offsets

Tree Survey

Road	Tree Number	Station	Offset	Size (in)	Type	Health	Structure	Comment	Recommended Action	Impact
RTE 30	257B	1124+44.95	80.01	4	Elm	G	G			
RTE 30	643	1124+50.80	86.98	12	Fir	G	G			
RTE 30	257C	1124+55.06	79.56	16	Magnolia	G	G			
RTE 30	644	1124+59.21	99.49	8	Swamp White Oak	G	G			
RTE 30	257D	1124+65.60	78.45	12	Honey Locust	G	G			
RTE 30	257E	1124+79.00	78	12	Crabapple	G	G			
RTE 30	2115	1124+94.30	109.14	8	Pine	G	G			
RTE 30	645	1124+94.70	90.85	12	Fir	G	G			
RTE 30	2116	1125+04.20	109.29	8	Pine	G	G			
RTE 30	646	1125+19.16	116.2	3	River Birch	G	G			
RTE 30	647	1125+21.44	90.21	8	Swamp White Oak	G	G			
RTE 30	2117	1125+83.63	84.88	10	Fir	G	G			
RTE 30	2118	1125+93.60	83.43	10	Fir	G	G			
RTE 30	649	1126+16.31	88.87	10	Fir	G	G			
RTE 30	2119	1126+29.78	89.46	12	Norway Maple	G	G			
RTE 30	650	1126+35.00	91.16	8	Norway Maple	G	G			
RTE 30	2120	1126+65.15	85.83	16	Crabapple	G	G			
RTE 30	2121	1126+72.08	94.93	14	Crabapple	G	G			
RTE 30	2122	1126+83.45	85.79	8	Pine	G	G			
RTE 30	2123	1127+14.95	83.4	8	Norway Maple	G	G			
RTE 30	651	1127+19.77	52.87	30	Elm	G	G		Remove	Roadway improvements
RTE 30	652	1127+28.92	87.52	16	Crabapple	G	G			
RTE 30	653	1127+40.81	96.12	16	Crabapple	G	G			
RTE 30	654	1127+55.72	88.43	16	Crabapple	G	G			
RTE 30	2124	1127+81.98	87.65	12	Pine	G	G			
RTE 30	2125	1127+95.73	91.4	12	Pine	G	G			
RTE 30	2126	1128+08.08	81.96	10	Norway Maple	G	G			
RTE 30	655	1128+60.04	85.43	10	Spruce	G	G			
RTE 30	2127	1128+80.13	93.68	8	Red Maple	G	G			
RTE 30	2128	1129+02.00	90.81	8	Spruce	G	G			
RTE 30	656	1129+27.23	93.49	10	Crabapple	G	G			
RTE 30	657	1129+41.47	85.31	10	Crabapple	G	G			
RTE 30	658	1129+52.49	93.47	8	Fir	G	G			
RTE 30	659	1129+65.72	101.24	8	Crabapple	G	G			
RTE 30	661	1130+50.33	73.57	8	Serviceberry	G	G		Remove	Roadway improvements
RTE 30	662	1130+62.29	83.99	10	Ash	G	G			
RTE 30	663	1130+81.87	82.98	16	Serviceberry	G	G			
RTE 30	664	1130+82.18	117.81	6	Ash	G	G			
RTE 30	281B	1130+99.24	65.39	8	Mulberry	G	F	Under powerline	Remove	Roadway improvements

Right Offsets

Tree Survey

Road	Tree Number	Station	Offset	Size (in)	Type	Health	Structure	Comment	Recommended Action	Impact
RTE 30	668	1132+27.69	60.1	8	Mulberry	F	F		Remove	Roadway improvements
RTE 30	669	1132+99.27	107.01	10	Box Elder Maple	F	F		Remove	Roadway improvements
RTE 30	670	1133+67.77	86.57	8	Swamp White Oak	G	G		Remove	Roadway improvements
RTE 30	2129	1133+84.39	62.73	8	Box Elder Maple	F	F		Remove	Roadway improvements
RTE 30	2130	1133+95.00	61.93	16	Box Elder Maple	F	F		Remove	Roadway improvements
RTE 30	671	1134+07.70	59.17	16	Box Elder Maple	F	F		Remove	Roadway improvements
RTE 30	672	1134+53.08	60.47	16	Box Elder Maple	F	F		Remove	Roadway improvements
RTE 30	673	1134+92.34	71.09	24	Box Elder Maple	F	F		Remove	Roadway improvements
RTE 30	674	1135+62.03	100.55	8	Ash	P	G	EAB present		
RTE 30	675	1135+70.38	92.68	8	Crabapple	G	G			
RTE 30	676	1136+02.66	95.74	12	Fir	G	G			
RTE 30	677	1136+20.56	99.69	8	Ash	P	G	EAB present		
RTE 30	678	1136+33.18	112.96	12	Pear	G	G			
RTE 30	679	1136+39.01	90.63	6	Crabapple	G	G			
RTE 30	680	1136+46.83	103.26	12	Crabapple	G	G			
RTE 30	681	1136+59.31	95.39	12	Crabapple	G	G			
RTE 30	682	1136+77.72	100.05	12	Crabapple	G	G			
RTE 30	685	1136+97.87	101.55	8	Japanese Tree Lilac	G	F			
RTE 30	687	1137+06.63	100.97	8	Ash	Dead	P	Dead		
RTE 30	690	1137+24.88	98.75	12	Fir	G	G			
RTE 30	691	1137+35.53	88.89	10	Crabapple	G	G			
RTE 30	692	1137+47.17	101.67	10	Crabapple	G	G			
RTE 30	702	1138+53.09	99.5	12	Fir	G	G			
RTE 30	712	1139+15.34	98.84	14	Fir	G	G			
RTE 30	714	1139+80.31	89.95	16	Fir	G	G			
RTE 30	716	1140+04.51	88.79	16	Fir	G	G			
RTE 30	2135	1140+14.68	98.28	14	Callery Pear	G	G			
RTE 30	717	1140+42.54	87.36	16	Fir	G	G			
RTE 30	718	1140+55.63	97.08	16	Crabapple	G	G			
RTE 30	2136	1140+94.54	90.49	12	Norway Maple	G	G			
RTE 30	720	1141+36.24	93.46	12	Honey Locust	G	G			
RTE 30	721	1141+54.57	101.51	14	Fir	G	G			
RTE 30	722	1141+74.45	99.66	16	Crabapple	G	G			
RTE 30	723	1141+79.49	114.93	4	Pine	G	G			
RTE 30	2137	1141+93.57	93.68	14	Norway Maple	G	G			
RTE 30	724	1142+30.89	97.08	10	Sugar Maple	G	G			
RTE 30	2138	1142+38.36	83.13	10	White Birch	G	G			
RTE 30	725	1142+43.00	110.8	10	Ash	G	G			
RTE 30	726	1142+58.31	114.17	6	Fir	G	G			

Right Offsets

Road	Tree Number	Station	Offset	Size (in)	Type	Health	Structure	Comment	Recommended Action	Impact
RTE 30	727	1142+75.88	80.4	12	Fir	G	G			
RTE 30	728	1142+80.55	79.69	16	Callery Pear	G	G		Remove	Roadway improvements
RTE 30	2140	1143+16.81	137.35	12	Ash	P	G	EAB present		
RTE 30	729	1143+16.89	116.64	8	White Birch	G	G			
RTE 30	730	1144+92.81	107.51	8	White Birch	G	G			
RTE 30	731	1145+14.34	83.76	10	Spruce	G	G			
RTE 30	732	1145+26.69	84.41	10	Spruce	G	G			
RTE 30	733	1145+60.46	81.38	16	Ash	G	F			
RTE 30	735	1145+81.08	77.59	8	Spruce	G	G			
RTE 30	736	1145+94.02	85.31	8	Spruce	G	G			
RTE 30	739	1146+13.12	91.57	10	Spruce	G	G			
RTE 30	741	1146+47.59	102.02	10	Norway Maple	G	G			
RTE 30	743	1146+53.20	91.27	10	Crabapple	G	G			
RTE 30	745	1146+62.35	100.26	10	Crabapple	G	G			
RTE 30	750	1147+29.19	99.68	10	Sycamore Maple	F	F			
RTE 30	753	1147+57.81	90.53	10	Spruce	G	F			
RTE 30	755	1147+99.24	103.05	16	Spruce	G	G			
RTE 30	756	1148+19.66	95.82	12	Ash	P	F	EAB present		
RTE 30	759	1148+74.53	99.06	12	Ash	P	F	EAB present		
RTE 30	760	1148+98.18	105.15	14	Fir	G	G			
RTE 30	763	1149+39.15	103.95	8	Ash	P	F	EAB present		
RTE 30	764	1149+56.61	93.42	16	Fir	G	G			
RTE 30	2141	1149+85.93	96.94	10	Ash	P	F	EAB present		
RTE 30	2142	1150+10.37	94.43	8	Crabapple	G	G			
RTE 30	765	1150+14.26	94.86	8	Crabapple	G	G			
RTE 30	766	1150+28.14	87.85	8	Crabapple	G	G			
RTE 30	2143	1150+39.15	101.62	12	Fir	G	G			
RTE 30	767	1150+58.87	74.98	16	Norway Maple	G	G		Remove	Roadway improvements
RTE 30	770	1150+86.64	97.82	12	Norway Maple	G	G			
RTE 30	771	1150+98.13	81.45	14	Spruce	G	G			
RTE 30	773	1151+27.38	103.01	14	Spruce	G	G			
RTE 30	774	1151+42.87	90.66	10	Norway Maple	G	G			
RTE 30	775	1151+78.41	99.51	16	Spruce	G	G			
RTE 30	776	1151+92.68	100.83	10	Norway Maple	G	G			
RTE 30	778	1152+51.30	101.03	10	Crabapple	G	G			
RTE 30	2147	1152+71.74	103.69	12	Norway Maple	G	G			
RTE 30	781	1152+98.23	96.07	10	Ash	P	F	EAB present		
RTE 30	782	1153+18.15	90.57	10	Ash	P	F	EAB present		
RTE 30	785	1153+32.21	99.92	12	Fir	G	G			

Right Offsets

Road	Tree Number	Station	Offset	Size (in)	Type	Health	Structure	Comment	Recommended Action	Impact
RTE 30	788	1153+46.00	71.37	10	Ash	F	F		Remove	Roadway improvements
RTE 30	789	1153+46.88	112.01	8	Crabapple	G	G			
RTE 30	790	1153+71.84	97.49	8	Crabapple	P	P			
RTE 30	791	1153+91.45	102.42	12	Fir	G	G			
RTE 30	792	1154+05.57	91.36	12	Fir	G	G			
RTE 30	793	1154+15.09	104.57	8	Crabapple	F	F			
RTE 30	2148	1154+38.58	105.15	20	Ash	Dead	P	Dead		
RTE 30	794	1154+86.30	107.38	16	Fir	G	G			
RTE 30	795	1154+94.42	94.66	10	Fir	G	G			
RTE 30	796	1155+10.88	102.05	8	Crabapple	G	F			
RTE 30	2149	1155+28.94	95.64	8	Ash	P	P			
RTE 30	2150	1155+73.22	96.65	12	Spruce	G	G			
RTE 30	2151	1155+87.22	105.22	10	Crabapple	G	G			
RTE 30	797	1156+01.45	100.74	10	Crabapple	G	G			
RTE 30	798	1156+18.13	102.82	10	Crabapple	G	G			
RTE 30	799	1156+32.62	104.59	10	Spruce	G	G			
RTE 30	800	1156+38.71	107.28	8	Ash	G	G	EAB present		
RTE 30	801	1156+50.19	100.58	10	Spruce	G	G			
RTE 30	802	1156+63.19	113.97	12	Ash	G	G	EAB present		
RTE 30	805	1156+83.74	110.15	10	Ash	G	G	EAB present		
RTE 30	809	1159+78.83	94.97	10	Japanese Tree Lilac	G	G			
RTE 30	810	1159+81.98	114.4	12	Ash	F	G			
RTE 30	812	1159+93.10	107.71	6	Pine	F	F			
RTE 30	813	1159+96.55	99.71	12	Pine	G	G			
RTE 30	814	1159+97.04	117.79	12	Pine	G	G			
RTE 30	2152	1160+09.51	89.22	6	Red Cedar Juniper	G	G			
RTE 30	815	1160+14.69	100.89	12	Pine	G	G			
RTE 30	816	1160+37.78	75.79	8	Spruce	G	G			
RTE 30	817	1160+56.55	92.51	6	Ash	G	G	EAB present		
RTE 30	818	1160+74.49	81.35	10	Honey Locust	G	G			
RTE 30	819	1160+99.20	71.1	10	Pine	G	G		Remove	Roadway improvements
RTE 30	820	1161+07.90	78.71	10	Pine	G	G			
RTE 30	823	1161+23.17	75.88	8	Ash	G	G			
RTE 30	826	1161+42.48	82.79	8	Pine	G	F			
RTE 30	830	1161+60.71	75.44	10	Red Maple	G	G			
RTE 30	831	1161+66.29	82.26	10	Ash	P	G	EAB present		
RTE 30	832	1161+80.57	75.8	8	Crabapple	F	G			
RTE 30	833	1161+80.78	90.68	8	Pine	G	G			
RTE 30	834	1161+89.78	84.21	8	Crabapple	F	G			

Right Offsets

Tree Survey

Road	Tree Number	Station	Offset	Size (in)	Type	Health	Structure	Comment	Recommended Action	Impact
RTE 30	835	1162+01.66	77.21	8	Crabapple	F	G			
RTE 30	838	1162+18.17	77.39	10	Honey Locust	G	G			
RTE 30	839	1162+28.34	72.74	8	Spruce	G	G		Remove	Roadway improvements
RTE 30	841	1162+45.79	89.27	10	Maple	G	G			
RTE 30	846	1162+64.66	79.42	10	Ash	Dead	P	Dead		
RTE 30	850	1162+90.56	86.54	8	Spruce	G	G			
RTE 30	851	1163+05.59	85.82	10	Ash	Dead	P	Dead		
RTE 30	852	1163+13.32	94.04	10	Maple	G	G			
RTE 30	855	1163+23.58	86.85	8	Crabapple	G	G			
RTE 30	857	1163+43.14	73.7	10	Pine	G	G		Remove	Roadway improvements
RTE 30	858	1163+57.20	79.07	10	Pine	G	G			
RTE 30	861	1163+78.11	70.38	12	Ash	P	F	EAB present	Remove	Roadway improvements
RTE 30	862	1163+86.78	68.54	10	Maple	G	F		Remove	Roadway improvements
RTE 30	864	1164+06.91	77.13	8	Ash	Dead	P	Dead		
RTE 30	865	1164+15.90	76.86	12	Pine	G	G			
RTE 30	867	1164+60.39	83.38	6	Hedge Maple	G	G			
RTE 30	868	1164+70.78	82.08	10	Norway Maple	G	G			
RTE 30	869	1164+84.54	74	8	Spruce	G	G			
RTE 30	871	1165+05.99	83.29	10	Norway Maple	G	G			
RTE 30	872	1165+20.90	73.67	6	Spruce	G	G			
RTE 30	878	1166+06.19	88.37	8	Spruce	G	G			
RTE 30	879	1166+52.39	93.2	10	Norway Maple	G	G			
RTE 30	881	1166+65.03	98.18	12	Spruce	G	G			
RTE 30	888	1167+05.75	105.96	10	Norway Maple	G	G			
RTE 30	892	1167+43.26	117.38	6	Pine	F	F			
RTE 30	893	1167+47.78	87.12	8	Birch	G	G			
RTE 30	897	1167+60.53	106.79	6	Pine	F	F			
RTE 30	898	1167+60.85	78.26	8	Birch	G	G			
RTE 30	899	1167+61.28	75.92	12	Birch	G	G			
RTE 30	900	1167+63.04	115.3	8	Birch	G	G			
RTE 30	902	1167+64.42	110.87	10	Spruce	G	G			
RTE 30	903	1167+64.49	105.66	10	Spruce	F	G			
RTE 30	904	1167+64.67	100.2	8	Birch	G	G			
RTE 30	906	1167+66.34	115.31	8	Birch	G	G			
RTE 30	907	1167+69.10	110.27	12	Pine	G	G			
RTE 30	909	1169+27.60	117.8	6	American Linden	G	G			
RTE 30	910	1169+49.03	116.99	6	American Linden	G	G			
RTE 30	911	1169+66.00	102.31	6	American Linden	G	G			
RTE 30	912	1169+84.18	110.63	10	Pine	F	G			

Right Offsets

Road	Tree Number	Station	Offset	Size (in)	Type	Health	Structure	Comment	Recommended Action	Impact
RTE 30	913	1169+97.84	111.82	10	Pine	G	G			
RTE 30	914	1170+10.28	103.57	10	Pine	G	G			
RTE 30	915	1170+23.80	98.08	5	Swamp White Oak	G	G			
RTE 30	916	1170+40.10	119.03	6	Spruce	G	G			
RTE 30	917	1170+57.25	117.62	6	Spruce	G	G			
RTE 30	918	1170+73.28	110.9	6	Spruce	G	G			
RTE 30	919	1170+89.60	113.03	6	Spruce	G	G			
RTE 30	920	1171+04.15	107.14	6	Spruce	G	G			
RTE 30	921	1171+19.58	110.45	14	Serviceberry	G	G			
RTE 30	922	1171+31.08	112.97	14	Serviceberry	G	G			
RTE 30	923	1171+42.82	115.19	4	Serviceberry	G	G			
RTE 30	924	1171+55.95	108.91	4	Spruce	G	G			
RTE 30	925	1171+69.02	115.21	4	Spruce	G	G			
RTE 30	926	1171+82.29	111	4	Spruce	G	G			
RTE 30	927	1171+94.67	115.28	4	Spruce	G	G			
RTE 30	928	1172+07.40	117.31	4	Spruce	G	G			
RTE 30	929	1172+42.34	116.65	12	River Birch	G	G			
RTE 30	930	1172+87.07	116.84	12	River Birch	G	G			
RTE 30	931	1173+00.88	115.18	8	Hybrid Elm	G	G			
RTE 30	932	1173+26.94	105.22	8	Hybrid Elm	G	G			
RTE 30	933	1173+47.82	106.37	8	Hybrid Elm	G	G			
RTE 30	934	1173+64.98	104.62	8	Hybrid Elm	G	G			
RTE 30	935	1173+93.05	99.73	4	Fir	G	G			
RTE 30	936	1174+04.80	96.39	4	Fir	G	G			
RTE 30	937	1174+14.57	99.55	4	Fir	G	G			
RTE 30	938	1174+24.01	95.38	4	Fir	G	G			
RTE 30	939	1174+40.57	99.28	4	Fir	G	G			
RTE 30	940	1174+55.37	101.01	10	Red Maple	G	G			
RTE 30	941	1174+66.57	97.87	10	River Birch	G	G			
RTE 30	942	1174+77.34	95.28	10	River Birch	G	G			
RTE 30	943	1174+87.76	98.19	10	River Birch	G	G			
RTE 30	944	1175+13.61	97.91	12	Pine	G	G			
RTE 30	945	1175+27.07	101.71	12	Pine	G	G			
RTE 30	946	1175+38.87	97.74	12	Pine	G	G			
RTE 30	947	1175+63.69	100.01	12	Pine	G	G			
RTE 30	948	1175+74.95	103.11	12	Pine	G	G			
RTE 30	949	1175+84.48	99.49	12	Pine	G	G			
RTE 30	950	1175+96.69	102.66	12	Pine	G	G			
RTE 30	951	1176+07.75	100.72	12	Pine	G	G			

Right Offsets

Road	Tree Number	Station	Offset	Size (in)	Type	Health	Structure	Comment	Recommended Action	Impact
RTE 30	952	1176+29.90	102.35	8	English Oak	G	G			
RTE 30	953	1176+33.51	112.3	6	Arborvitae	G	G			
RTE 30	954	1176+37.13	112.38	12	Crabapple	G	G			
RTE 30	955	1176+39.09	86.25	6	Arborvitae	G	G			
RTE 30	956	1176+40.81	112.05	6	Arborvitae	G	G			
RTE 30	957	1176+44.73	112.38	6	Arborvitae	G	G			
RTE 30	958	1176+46.13	107.62	6	English Oak	G	G			
RTE 30	959	1176+47.64	112.63	6	Arborvitae	G	G			
RTE 30	960	1176+50.40	92.09	12	Crabapple	G	G			
RTE 30	961	1176+51.56	112.24	6	Arborvitae	G	G			
RTE 30	962	1176+54.12	111.96	6	Arborvitae	G	G			
RTE 30	963	1176+58.33	111.99	6	Arborvitae	G	G			
RTE 30	964	1176+60.83	86.16	12	Crabapple	G	G			
RTE 30	965	1176+62.07	112.37	6	Arborvitae	G	G			
RTE 30	966	1176+66.47	111.92	6	Arborvitae	G	G			
RTE 30	967	1176+67.16	99.09	12	Pine	G	G			
RTE 30	968	1176+70.33	112.13	6	Arborvitae	G	G			
RTE 30	969	1176+74.25	112.04	6	Arborvitae	G	G			
RTE 30	970	1176+77.46	111.76	6	Arborvitae	G	G			
RTE 30	971	1176+79.01	94.06	12	Pine	G	G			
RTE 30	972	1176+81.38	111.61	6	Arborvitae	G	G			
RTE 30	973	1176+86.25	111.58	6	Arborvitae	G	G			
RTE 30	974	1176+89.10	95.85	12	Pine	G	G			
RTE 30	975	1177+23.98	92.51	4	English Oak	G	G			
RTE 30	977	1177+53.93	91.12	10	Pine	G	G			
RTE 30	978	1177+66.92	93.18	10	Pine	G	G			
RTE 30	979	1177+78.00	97.3	10	Pine	G	G			
RTE 30	980	1177+90.34	91.74	10	Pine	G	G			
RTE 30	981	1178+10.08	88.74	10	Pine	G	G			
RTE 30	982	1178+22.51	86.51	10	Hybrid Elm	G	G			
RTE 30	983	1178+34.51	85.05	10	Crabapple	G	G			
RTE 30	984	1178+46.97	87.16	4	Fir	G	G			
RTE 30	985	1178+58.63	85.05	4	Fir	G	G			
RTE 30	986	1178+69.36	87.98	4	Fir	G	G			
RTE 30	987	1178+83.65	90.46	4	Fir	G	G			
RTE 30	988	1179+08.31	89.27	4	Fir	G	G			
RTE 30	989	1179+19.84	59.6	42	Hickory	G	G		Remove	Roadway improvements
RTE 30	990	1179+28.82	95.89	4	Hackberry	F	F			
RTE 30	991	1179+48.57	91.34	4	Hackberry	G	G			

Right Offsets

Road	Tree Number	Station	Offset	Size (in)	Type	Health	Structure	Comment	Recommended Action	Impact
RTE 30	992	1179+62.99	92.33	4	Hackberry	G	G			
RTE 30	993	1179+73.72	57.79	8	Hybrid Elm	F	F		Remove	Roadway improvements
RTE 30	994	1179+77.89	57.28	20	Mulberry	F	G		Remove	Roadway improvements
RTE 30	995	1179+78.05	87.63	12	Serviceberry	G	G			
RTE 30	996	1179+90.71	87.25	12	Serviceberry	G	G			
RTE 30	997	1180+02.51	90.12	4	Spruce	G	G			
RTE 30	998	1180+13.76	86.4	4	Spruce	G	G			
RTE 30	999	1180+24.49	89.39	4	Spruce	G	G			
RTE 30	1000	1180+36.08	88.23	4	Spruce	G	G			
RTE 30	1001	1180+48.77	82.74	4	Spruce	G	G		Remove	Roadway improvements
RTE 30	1002	1180+57.06	95.21	4	American Linden	F	G			
RTE 30	1003	1180+67.77	83.88	4	American Linden	F	G		Remove	Roadway improvements
RTE 30	1004	1180+79.88	92.82	8	Fir	G	G			
RTE 30	1005	1180+92.74	96.18	4	American Linden	F	G			
RTE 30	1006	1181+05.29	94.79	8	Fir	G	G			
RTE 30	1008	1181+28.70	56.59	30	Mulberry	G	G		Remove	Roadway improvements
RTE 30	1009	1181+41.37	99.02	8	Fir	G	G			
RTE 30	1010	1181+54.32	98.17	8	Fir	G	G			
RTE 30	1011	1181+65.52	102.35	8	Fir	G	G			
RTE 30	1012	1181+76.35	107.83	8	Fir	G	G			
RTE 30	1013	1181+90.25	107.51	8	Fir	G	G			
RTE 30	1014	1182+27.61	58.49	18	Mulberry	G	G		Remove	Roadway improvements
RTE 30	1015	1183+11.08	55.52	10	Hybrid Elm	F	G		Remove	Roadway improvements
RTE 30	1016	1184+07.76	57.65	8	Osage Orange	G	G		Remove	Roadway improvements
RTE 30	1018	1186+57.69	98.62	6	Box Elder Maple	F	F			
RTE 30	1019	1186+60.06	94.97	30	Ash	F	F			
RTE 30	1020	1187+60.22	89.28	12	Black Walnut	G	G			
RTE 30	1021	1187+98.80	44.57	6	Siberian Elm	G	G		Remove	Roadway improvements
RTE 30	1022	1188+09.79	40.98	6	Siberian Elm	G	G		Remove	Roadway improvements
RTE 30	1023	1188+22.50	38.82	8	Siberian Elm	G	G		Remove	Roadway improvements
RTE 30	1024	1189+01.09	68.19	8	Siberian Elm	G	G		Remove	Roadway improvements
RTE 30	1025	1189+24.81	70.54	8	Siberian Elm	G	G		Remove	Roadway improvements
RTE 30	x013	1191+21.75	72.54	18	Mulberry	P	P		Remove	Roadway improvements
RTE 30	x014	1191+29.68	73.07	16	Box Elder Maple	F	F	Multi-Stem	Remove	Roadway improvements
RTE 30	x015	1191+29.68	73.07	14	Box Elder Maple	F	F	Multi-Stem	Remove	Roadway improvements
RTE 30	x016	1191+37.89	68.14	16	Mulberry	P	P		Remove	Roadway improvements
RTE 30	x017	1191+43.57	74.87	14	Box Elder Maple	F	F	Multi-Stem	Remove	Roadway improvements
RTE 30	x018	1191+51.75	74.16	12	Box Elder Maple	F	F	Multi-Stem	Remove	Roadway improvements
RTE 30	x019	1191+58.23	67.99	12	Buckthorn	F	F	Multi-Stem	Remove	Roadway improvements

Right Offsets

Tree Survey

Road	Tree Number	Station	Offset	Size (in)	Type	Health	Structure	Comment	Recommended Action	Impact
RTE 30	x020	1191+67.90	68.03	10	Hackberry	G	G		Remove	Roadway improvements
RTE 30	x021	1191+68.37	74.23	14	Mulberry	F	P	Multi-Stem	Remove	Roadway improvements
RTE 30	x022	1191+75.54	79.72	24	Willow	G	F		Remove	Roadway improvements
RTE 30	x023	1191+88.67	83.5	12	Silver Maple	G	G	Multi-Stem	Remove	Roadway improvements
RTE 30	x024	1191+93.90	79.31	8	Mulberry	P	P	Multi-Stem	Remove	Roadway improvements
RTE 30	x025	1191+97.87	79.07	14	Box Elder Maple	F	F		Remove	Roadway improvements
RTE 30	x026	1192+02.58	79.84	14	Box Elder Maple	F	F		Remove	Roadway improvements
RTE 30	x027	1192+10.02	79.62	12	Mulberry	P	P	Multi-Stem	Remove	Roadway improvements
RTE 30	1026	1192+10.46	72.21	4	Cottonwood	G	G		Remove	Roadway improvements
RTE 30	x028	1192+14.26	74.43	18	Box Elder Maple	F	F	Multi-Stem	Remove	Roadway improvements
RTE 30	x029	1192+18.45	81.15	16	Mulberry	F	F	Multi-Stem	Remove	Roadway improvements
RTE 30	x030	1192+28.09	87.39	24	Box Elder Maple	F	P	Multi-Stem	Remove	Roadway improvements
RTE 30	x031	1192+28.40	73.5	8	Box Elder Maple	F	F	Multi-Stem	Remove	Roadway improvements
RTE 30	x033	1192+45.01	75.56	8	Box Elder Maple	F	F	Multi-Stem	Remove	Roadway improvements
RTE 30	x032	1192+46.47	83.26	28	Hackberry	P	P	Multi-Stem	Remove	Roadway improvements
RTE 30	1027	1192+48.44	54.94	4	Cottonwood	G	G		Remove	Roadway improvements
RTE 30	1028	1192+50.66	47.07	4	Cottonwood	G	G		Remove	Roadway improvements
RTE 30	x034	1192+54.90	83.54	8	Hackberry	F	F		Remove	Roadway improvements
RTE 30	x035	1192+61.87	78.36	18	Hackberry	F	F		Remove	Roadway improvements
RTE 30	x063	1192+66.44	109.14	30	Silver Maple	G	G			
RTE 30	x064	1192+67.63	121.3	75	Silver Maple	G	G			
RTE 30	x036	1192+67.79	84.34	14	Hackberry	Dead	P	Dead	Remove	Roadway improvements
RTE 30	x039	1192+77.03	70.74	16	Box Elder Maple	F	F	Multi-Stem	Remove	Roadway improvements
RTE 30	x037	1192+77.71	84.88	16	Hackberry	F	F		Remove	Roadway improvements
RTE 30	x038	1192+82.46	76.47	12	Hackberry	F	F		Remove	Roadway improvements
RTE 30	x040	1192+85.73	67.56	8	Box Elder Maple	F	F	Multi-Stem	Remove	Roadway improvements
RTE 30	x041	1192+92.60	84.45	40	Box Elder Maple	G	G	Multi-Stem	Remove	Roadway improvements
RTE 30	x042	1192+96.35	77.77	36	Mulberry	F	F	Multi-Stem	Remove	Roadway improvements
RTE 30	x043	1192+99.61	68.86	8	Box Elder Maple	F	F	Multi-Stem	Remove	Roadway improvements
RTE 30	x044	1193+08.27	73.36	8	Box Elder Maple	F	F		Remove	Roadway improvements
RTE 30	x045	1193+09.71	85.02	8	Box Elder Maple	F	F		Remove	Roadway improvements
RTE 30	x046	1193+10.42	91.72	8	Box Elder Maple	F	G		Remove	Roadway improvements
RTE 30	1029	1193+19.33	51.29	4	Cottonwood	G	G		Remove	Roadway improvements
RTE 30	x047	1193+20.60	90.53	20	Hackberry	G	F		Remove	Roadway improvements
RTE 30	1030	1193+21.04	47.26	16	Cottonwood	G	G		Remove	Roadway improvements
RTE 30	x048	1193+21.64	80.36	18	Box Elder Maple	F	F	Multi-Stem	Remove	Roadway improvements
RTE 30	x049	1193+30.56	80.65	16	Box Elder Maple	F	G	Multi-Stem	Remove	Roadway improvements
RTE 30	x050	1193+34.25	88.85	30	Crabapple	G	G	Multi-Stem	Remove	Roadway improvements
RTE 30	1031	1193+43.30	56.54	16	Cottonwood	G	G		Remove	Roadway improvements

Right Offsets

Tree Survey

Road	Tree Number	Station	Offset	Size (in)	Type	Health	Structure	Comment	Recommended Action	Impact
RTE 30	x053	1193+47.95	76.26	6	Box Elder Maple	F	F		Remove	Roadway improvements
RTE 30	x054	1193+49.47	68.33	16	Box Elder Maple	F	F	Multi-Stem	Remove	Roadway improvements
RTE 30	x055	1193+53.70	64.38	12	Box Elder Maple	P	P		Remove	Roadway improvements
RTE 30	x056	1193+58.14	71.6	12	Box Elder Maple	F	F	Multi-Stem	Remove	Roadway improvements
RTE 30	x057	1193+59.28	94.42	10	Box Elder Maple	F	F		Remove	Roadway improvements
RTE 30	x058	1193+67.01	84.04	14	Box Elder Maple	F	F		Remove	Roadway improvements
RTE 30	x059	1193+74.95	84.57	36	Box Elder Maple	F	F	Multi-Stem	Remove	Roadway improvements
RTE 30	x062	1193+84.42	74.69	10	Red Maple	G	F		Remove	Roadway improvements
RTE 30	x060	1193+85.37	83.37	38	Silver Maple	P	P	Multi-Stem	Remove	Roadway improvements
RTE 30	x061	1193+86.56	94.05	60	Box Elder Maple	G	F	Multi-Stem	Remove	Roadway improvements
RTE 30	1032	1193+89.12	52.83	4	Cottonwood	G	G		Remove	Roadway improvements
RTE 30	1033	1193+91.98	49.47	4	Cottonwood	G	G		Remove	Roadway improvements
RTE 30	1034	1193+99.15	43.55	4	Cottonwood	G	G		Remove	Roadway improvements
RTE 30	1035	1194+68.40	84.61	14	Box Elder Maple	G	G		Remove	Roadway improvements
RTE 30	1036	1195+37.68	62.97	12	Siberian Elm	G	G		Remove	Roadway improvements
RTE 30	1037	1195+62.00	61.26	14	Siberian Elm	G	G		Remove	Roadway improvements
RTE 30	1038	1198+38.51	107.77	8	Serviceberry	G	G			
RTE 30	1039	1198+46.27	115.43	8	Serviceberry	G	G			
RTE 30	1041	1198+57.03	114.23	4	English Oak	G	G			
RTE 30	1042	1198+97.06	87.45	4	Red Maple	P	P	Main Leader Cut	Remove	Roadway improvements
RTE 30	x086	1199+63.57	228.32	6	Siberian Elm	F	F			
RTE 30	1045	1199+92.54	111	6	Pear	G	G			
RTE 30	x085	1200+02.69	229.39	20	Siberian Elm	F	F	Multi-Stem		
RTE 30	x084	1200+37.62	259.86	8	Siberian Elm	F	F	Multi-Stem		
RTE 30	x083	1200+50.69	222.05	24	Crabapple	G	G	Multi-Stem		
RTE 30	x082	1200+78.91	252.55	12	Crabapple	P	P	Multi-Stem		
RTE 30	x080	1200+80.13	202.19	32	Siberian Elm	G	F			
RTE 30	x081	1201+09.70	235.4	24	Crabapple	G	G	Multi-Stem		
RTE 30	x079	1201+75.76	243.2	14	Hackberry	F	F			
RTE 30	x078	1201+80.04	175.26	12	Crabapple	G	G	Multi-Stem		
RTE 30	1046	1201+89.70	81.91	3	Honey Locust	G	G			
RTE 30	x076	1201+95.78	157.78	16	Crabapple	G	G	Multi-Stem	Remove	Roadway improvements
RTE 30	1047	1202+04.96	94.94	3	Freeman Maple	F	F			
RTE 30	1048	1202+05.61	82.84	7	Homestead Elm	G	G			
RTE 30	1049	1202+13.14	80.66	3	Dogwood	G	G		Remove	Roadway improvements
RTE 30	1050	1202+34.24	102.53	3	Honey Locust	F	F			
RTE 30	x077	1202+43.14	236.41	24	Siberian Elm	G	G			
RTE 30	x075	1202+51.48	95.61	12	Siberian Elm	G	G		Remove	Roadway improvements
RTE 30	1052	1202+75.27	104.83	3	Dogwood	G	G			

Right Offsets

Tree Survey

Road	Tree Number	Station	Offset	Size (in)	Type	Health	Structure	Comment	Recommended Action	Impact
RTE 30	x074	1202+75.94	107.67	16	Serviceberry	G	G	Multi-Stem	Remove	Roadway improvements
RTE 30	x073	1202+81.95	93.56	10	Siberian Elm	G	G	Multi-Stem	Remove	Roadway improvements
RTE 30	x072	1202+88.25	92.41	10	Honey Locust	G	G	Multi-Stem	Remove	Roadway improvements
RTE 30	x071	1202+94.98	94.32	6	Honey Locust	G	G	Multi-Stem	Remove	Roadway improvements
RTE 30	x070	1203+01.41	91.8	6	Siberian Elm	G	G	Multi-Stem	Remove	Roadway improvements
RTE 30	1053	1203+04.22	87.59	3	Dogwood	G	G			
RTE 30	x069	1203+08.63	94.11	6	Siberian Elm	G	G	Multi-Stem	Remove	Roadway improvements
RTE 30	1054	1203+11.82	103.53	3	Freeman Maple	F	G			
RTE 30	1055	1203+12.34	89.01	6	Elm	G	G			
RTE 30	x068	1203+14.86	91.81	8	Honey Locust	G	G	Multi-Stem	Remove	Roadway improvements
RTE 30	x067	1203+18.19	93.72	10	Siberian Elm	G	G	Multi-Stem	Remove	Roadway improvements
RTE 30	x066	1203+23.85	93.84	6	Siberian Elm	G	G	Multi-Stem	Remove	Roadway improvements
RTE 30	1056	1203+34.94	120.65	4	Honey Locust	G	G			
RTE 30	1057	1203+36.54	91.56	3	Honey Locust	G	G			
RTE 30	485C	1204+47.29	64.81	8	Siberian Elm	F	F		Remove	Roadway improvements
RTE 30	2153	1204+68.72	71.52	18	Mulberry	F	F		Remove	Roadway improvements
RTE 30	485B	1204+73.33	65.29	2	Siberian Elm	F	F		Remove	Roadway improvements
RTE 30	485A	1204+91.17	64.68	18	Siberian Elm	F	F		Remove	Roadway improvements
RTE 30	2154	1205+09.52	73.27	6	Siberian Elm	F	F		Remove	Roadway improvements
RTE 30	2155	1205+21.87	75.01	6	Siberian Elm	F	F		Remove	Roadway improvements
RTE 30	2156	1205+39.31	77.04	20	Hackberry	F	G		Remove	Roadway improvements
RTE 30	2157	1205+55.71	76.6	14	Hackberry	F	F		Remove	Roadway improvements
RTE 30	2158	1205+66.21	78.17	3	Mulberry	G	F		Remove	Roadway improvements
RTE 30	2159	1205+79.73	78.32	10	Siberian Elm	F	F		Remove	Roadway improvements
RTE 30	2160	1206+23.77	80.47	60	Mulberry	G	F		Remove	Roadway improvements
RTE 30	2161	1206+39.26	82.98	30	Mulberry	F	G		Remove	Roadway improvements
RTE 30	2162	1206+68.91	87.44	24	Hackberry	F	F		Remove	Roadway improvements
RTE 30	2163	1206+89.21	89.02	36	Hackberry	F	F		Remove	Roadway improvements
RTE 30	2165	1207+27.91	97.76	12	Mulberry	G	F		Remove	Roadway improvements
RTE 30	2166	1207+51.33	105.37	10	Hackberry	G	F		Remove	Roadway improvements
RTE 30	2167	1207+70.99	112.85	30	Hackberry	G	F		Remove	Roadway improvements
RTE 30	1058	1210+50.87	102.09	5	Pear	G	G			
RTE 30	1059	1210+79.15	98.54	5	Pear	G	G			
RTE 30	1060	1211+07.63	96.36	5	Pear	G	G			
RTE 30	1061	1211+36.94	92.63	5	Pear	G	G			
RTE 30	1062	1211+85.00	89.29	5	Pear	G	G		Remove	Roadway improvements
RTE 30	1063	1211+90.29	110.61	5	Pear	G	G		Remove	Roadway improvements
RTE 30	490A	1213+46.27	120.74	20	Silver Maple	G	G			
RTE 30	1064	1214+00.41	60.52	18	Red Maple	G	G		Remove	Roadway improvements

Right Offsets

Tree Survey

Road	Tree Number	Station	Offset	Size (in)	Type	Health	Structure	Comment	Recommended Action	Impact
RTE 30	1065	1214+51.65	61.99	30	Red Maple	G	G		Remove	Roadway improvements
RTE 30	1070	1215+26.43	102.12	3	Arborvitae	G	G			
RTE 30	1071	1215+27.43	98.4	3	Arborvitae	G	G			
RTE 30	1072	1215+28.31	95.24	3	Arborvitae	G	G			
RTE 30	1073	1215+29.39	90.48	3	Arborvitae	G	G			
RTE 30	1074	1217+30.37	99.74	26	Siberian Elm	F	F			
RTE 30	492A	1218+49.54	111.62	6	Callery Pear	G	G			
RTE 30	1075	1218+72.66	61.47	19	Siberian Elm	F	F		Remove	Roadway improvements
RTE 30	492B	1218+98.73	110.48	30	Honey Locust	G	G			
RTE 30	1076	1219+21.61	105.78	3	Red Maple	P	P			
RTE 30	1077	1219+22.29	114.41	3	Red Maple	P	P			
RTE 30	1078	1219+27.03	100.02	3	Siberian Elm	P	P			
RTE 30	1079	1219+63.17	59.24	20	Silver Maple	G	G		Remove	Roadway improvements
RTE 30	1080	1220+17.87	61.19	30	Silver Maple	G	G		Remove	Roadway improvements
RTE 30	1081	1220+50.91	60.8	20	Silver Maple	G	G		Remove	Roadway improvements
RTE 30	1082	1220+77.73	59.71	30	Silver Maple	G	G		Remove	Roadway improvements
RTE 30	1083	1221+04.11	60.66	21	Silver Maple	G	F		Remove	Roadway improvements
RTE 30	1084	1221+38.85	61.84	25	Silver Maple	G	G		Remove	Roadway improvements
RTE 30	1085	1221+76.19	62.18	18	Silver Maple	G	G		Remove	Roadway improvements
RTE 30	1086	1222+02.62	62.48	24	Silver Maple	G	G		Remove	Roadway improvements
RTE 30	1087	1229+20.41	116.28	72	Silver Maple	G	G		Remove	Roadway improvements
RTE 30	1090	1230+31.09	65.48	20	Siberian Elm	F	F		Remove	Roadway improvements
RTE 30	1091	1231+58.34	63.72	6	Hackberry	F	F		Remove	Roadway improvements
RTE 30	1092	1231+60.04	100.31	48	Siberian Elm	G	G			
RTE 30	1093	1231+90.18	62.09	6	Black Chokeberry	F	F		Remove	Roadway improvements
RTE 30	1094	1232+68.83	66.84	6	Red Maple	G	G		Remove	Roadway improvements
RTE 30	1096	1233+29.02	58.95	6	Mulberry	F	F		Remove	Roadway improvements
RTE 30	1097	1233+57.71	106.16	18	Spruce	G	G			
RTE 30	1098	1233+61.86	59.29	4	Mulberry	F	F		Remove	Roadway improvements
RTE 30	1099	1233+84.35	59.03	6	Hackberry	F	F		Remove	Roadway improvements
RTE 30	1100	1234+01.46	59.61	8	Black Chokeberry	G	F		Remove	Roadway improvements
RTE 30	1103	1234+46.78	59.61	8	Black Chokeberry	G	F		Remove	Roadway improvements
RTE 30	1104	1234+83.34	59.78	8	Black Chokeberry	G	F		Remove	Roadway improvements
RTE 30	1105	1234+97.29	115.19	36	Silver Maple	G	G			
RTE 30	1106	1235+29.73	60.15	8	Mulberry	F	F		Remove	Roadway improvements
RTE 30	1107	1235+82.22	91.35	30	Pin Oak	G	G			
RTE 30	1108	1236+00.55	61.71	12	Mulberry	G	F		Remove	Roadway improvements
RTE 30	1110	1237+38.69	64.18	20	Silver Maple	F	F		Remove	Roadway improvements
RTE 30	1111	1238+16.79	59.38	20	Siberian Elm	F	F		Remove	Roadway improvements

Right Offsets

Road	Tree Number	Station	Offset	Size (in)	Type	Health	Structure	Comment	Recommended Action	Impact
RTE 30	2168	1240+57.52	58.74	20	Siberian Elm	F	F		Remove	Roadway improvements
RTE 30	2169	1241+42.59	54.36	6	Dogwood	F	F		Remove	Roadway improvements
RTE 30	2170	1242+13.12	49.27	6	Dogwood	F	F		Remove	Roadway improvements
RTE 30	1112	1244+83.23	58.44	30	Ash	F	F		Remove	Roadway improvements
RTE 30	1113	1245+10.64	51.38	30	Ash	F	F		Remove	Roadway improvements
RTE 30	1114	1247+45.26	112.8	8	Austrian Pine	G	G			
RTE 30	1115	1247+48.64	98.19	8	Austrian Pine	G	G			
RTE 30	1116	1247+65.33	91.83	2	Spruce	F	F			
RTE 30	1117	1247+79.30	99.55	3	Pine	G	G			
RTE 30	1118	1247+86.98	92.97	8	Pine	G	G			
RTE 30	1119	1247+95.80	100.15	8	Pine	G	G			
RTE 30	1120	1248+23.98	101.05	3	Spruce	G	G			
RTE 30	1121	1248+33.14	91.27	3	Spruce	G	G			
RTE 30	1122	1248+42.00	102.17	3	Spruce	G	G			
RTE 30	1123	1248+51.86	92.52	5	Red Maple	G	G			
RTE 30	1124	1248+86.38	97.12	6	Red Maple	G	G			
RTE 30	1125	1249+00.36	99.58	6	Blue Spruce	G	G			
RTE 30	1126	1249+06.91	92.02	1	Green Spruce	F	F			
RTE 30	1128	1249+12.68	97.24	6	Green Spruce	G	G			
RTE 30	1129	1249+18.11	92.24	6	Green Spruce	G	G			
RTE 30	1132	1249+94.66	99.4	8	Red Maple	G	G			
RTE 30	1135	1250+50.45	99.61	8	Red Maple	G	G			
RTE 30	1136	1250+81.32	101.58	8	Pine	G	G			
RTE 30	1137	1251+00.68	100.96	6	Red Maple	P	F			
RTE 30	1138	1251+12.81	94.19	8	Pine	G	G			
RTE 30	1139	1251+28.70	100.08	8	Pine	G	G			
RTE 30	1140	1251+44.72	99.04	8	Pine	G	G			
RTE 30	508A	1255+19.81	75.61	4	Hybrid Elm	G	G			
RTE 30	508B	1255+39.55	65.71	4	Hybrid Elm	G	G			
RTE 30	508C	1255+39.59	90.76	6	Honey Locust	G	G			
RTE 30	508D	1255+60.26	75.4	4	Hybrid Elm	G	G			
RTE 30	508E	1255+83.96	74.28	4	Hybrid Elm	G	G			
RTE 30	508F	1256+04.57	91.96	4	Hybrid Elm	G	G			
DICKSON	1176	20+02.62	33.96	8	Hackberry	F	F	Under powerline	Remove	Roadway improvements
DICKSON	1177	21+16.29	32.05	8	Hackberry	F	F	Under powerline	Remove	Roadway improvements
DICKSON	1178	21+56.20	32.33	8	Hackberry	F	F	Under powerline	Remove	Roadway improvements
DICKSON	1179	22+39.16	32.59	16	Hackberry	F	F	Under powerline	Remove	Roadway improvements
DICKSON	1181	24+29.56	31.02	16	Hackberry	F	F	Under powerline	Remove	Roadway improvements
DICKSON	1183	24+64.50	32.57	16	Hackberry	F	F	Under powerline	Remove	Roadway improvements

Right Offsets

Road	Tree Number	Station	Offset	Size (in)	Type	Health	Structure	Comment	Recommended Action	Impact
BLACKBERRY	1633	91+39.82	29.62	20	Red Maple	G	G			
BLACKBERRY	1635	92+16.11	43.66	36	Sugar Maple	G	G			
BLACKBERRY	1626A	92+33.87	46.25	24	Crimson Maple	G	G			
BLACKBERRY	1636	92+62.07	29.84	30	Maple	G	G			
BLACKBERRY	1637	92+80.94	54.6	16	Serviceberry	G	G			
GORDON	1252	32+78.29	41.01	8	Red Maple	G	G	Parkway		
GORDON	1253	32+81.01	0.27	8	Red Maple	G	G	Median		
GORDON	1256	33+12.72	41.33	8	Red Maple	G	G	Parkway		
GORDON	1258	33+48.17	41.28	8	Red Maple	G	G	Parkway		
GORDON	1259	34+00.82	100.96	8	Red Maple	G	G	Median		
GORDON	1260	35+29.20	6.2	6	Red Maple	G	G	Median	Remove	Roadway improvements
GORDON	1261	35+43.06	5.88	6	Red Maple	G	G	Median	Remove	Roadway improvements
GORDON	1262	35+53.81	90.96	36	Mulberry	G	G			
GORDON	1263	35+57.63	5.95	6	Red Maple	G	G	Median	Remove	Roadway improvements
GORDON	1264	36+28.10	95.99	20	Mulberry	G	G			
GORDON	1265	36+29.97	96.52	16	Mulberry	G	G			
GORDON	1266	41+55.63	38.71	12	Elm	G	G	Parkway	Remove	Roadway improvements
GORDON	2018	41+96.41	63.97	8	Pine	G	G			
GORDON	1267	42+33.57	39.3	12	Elm	G	G	Parkway	Remove	Roadway improvements
GORDON	2017	42+37.38	74.37	10	Crabapple	G	G			
GORDON	1268	42+68.57	39.29	12	Elm	G	G	Parkway	Remove	Roadway improvements
GORDON	2016	42+71.48	65.5	10	Crabapple	G	G			
GORDON	2015	42+81.78	76.08	10	Crabapple	G	G			
GORDON	2014	42+90.41	75.76	6	English Oak	G	G			
GORDON	1269	43+06.73	39.09	12	Elm	G	G	Parkway	Remove	Roadway improvements
GORDON	2013	43+22.53	75.02	12	Red Oak	G	G			
GORDON	2012	43+44.75	72.39	10	Pine	G	G			
GORDON	1270	43+50.60	39.59	6	Norway Maple	G	G	Parkway	Remove	Roadway improvements
GORDON	2011	43+61.11	66.79	10	Pine	G	G			
GORDON	1271	43+88.86	39.39	6	Norway Maple	G	G	Parkway	Remove	Roadway improvements
GORDON	1272	44+28.20	39.54	6	Norway Maple	G	G	Parkway	Remove	Roadway improvements
GORDON	1273	44+67.54	39.34	6	Norway Maple	G	G	Parkway	Remove	Roadway improvements
GORDON	1274	45+06.25	39.4	6	Norway Maple	G	G	Parkway	Remove	Roadway improvements
GORDON	1275	45+51.01	39.44	6	Norway Maple	G	G	Parkway		
GORDON	1277	46+28.32	39.39	8	Ash	P	F	EAB present		
GORDON	1278	46+67.32	39.46	8	Ash	P	F	EAB present		
GORDON	1279	47+06.30	39.44	8	Ash	P	F	EAB present		

Right Offsets

Road	Tree Number	Station	Offset	Size (in)	Type	Health	Structure	Comment	Recommended Action	Impact
GORDON	1280	47+46.09	39.32	8	Ash	P	F	EAB present		
GORDON	1249A	47+55.91	37.56	8	Ornamental Pear	G	G	Parkway		
GORDON	1249B	48+00.36	37.62	8	Ornamental Pear	G	G	Parkway		
PRESCOTT	1331	54+89.95	20.72	3	Red Maple	G	G	Parkway		
PRESCOTT	1332	54+90.21	38.73	8	Fir	G	G			
PRESCOTT	1333	55+11.89	40.16	8	Crabapple	G	G			
PRESCOTT	1334	55+25.00	22.75	6	Red Maple	G	G	Parkway		
PRESCOTT	1335	55+32.45	39.88	4	Fir	G	G			
PRESCOTT	1336	55+38.55	39.73	6	Fir	G	G			
PRESCOTT	1337	55+40.96	44.8	10	Hawthorn	G	G			
PRESCOTT	1338	55+46.57	41.65	10	Hawthorn	G	G			
PRESCOTT	1339	55+56.96	24.08	3	Red Maple	G	G	Parkway	Remove	Roadway improvements
PRESCOTT	1340	55+58.61	44.72	5	Crabapple	G	G			
PRESCOTT	1341	56+06.54	50.63	8	Ash	P	F	EAB present		
PRESCOTT	1308A	56+07.43	53.95	10	Fir	G	G			
PRESCOTT	1342	56+11.13	83.07	8	Spruce	G	G			
PRESCOTT	1308B	56+14.37	65.79	10	Fir	G	G			
PRESCOTT	1308E	56+15.14	40.92	12	River Birch	G	G			
PRESCOTT	1308C	56+20.01	75.61	10	Fir	G	G			
PRESCOTT	1308D	56+20.57	50.47	12	River Birch	G	G			
PRESCOTT	1343	56+21.39	61.86	10	River Birch	G	G			
PRESCOTT	1344	56+22.45	49.57	10	River Birch	G	G			
PRESCOTT	1345	56+24.07	84.68	8	Spruce	G	G			
PRESCOTT	2099D	56+31.57	79.78	12	Spruce	G	G			
PRESCOTT	1308F	56+33.13	39.63	12	River Birch	G	G			
PRESCOTT	2099B	56+34.45	68.08	12	Spruce	G	G			
PRESCOTT	2099C	56+42.26	76.74	12	Spruce	G	G			
PRESCOTT	2099A	56+45.14	65.62	12	Spruce	G	G			
PRESCOTT	2099E	56+56.99	72.25	12	Spruce	G	G			
PRESCOTT	2099F	56+58.45	86.26	8	Spruce	F	F			
LAKEWOOD CREEK	1445	63+77.37	52.93	10	Crabapple	G	G			
LAKEWOOD CREEK	1446	63+85.03	54.59	10	Crabapple	G	G			
LAKEWOOD CREEK	1450	64+11.83	49.99	8	Crabapple	G	F			
LAKEWOOD CREEK	1451	64+17.55	29.7	3	Pear	G	G			
LAKEWOOD CREEK	1452	64+27.24	54.11	8	Ash	G	F	EAB present		
LAKEWOOD CREEK	1453	64+42.88	56.77	10	Spruce	G	G			
LAKEWOOD CREEK	1455	64+61.70	50.9	14	Crabapple	G	G			

Right Offsets

Road	Tree Number	Station	Offset	Size (in)	Type	Health	Structure	Comment	Recommended Action	Impact
LAKEWOOD CREEK	1456	64+75.38	52.14	6	Crabapple	F	F			
LAKEWOOD CREEK	1457	64+82.46	45.81	6	Ash	P	F			
LAKEWOOD CREEK	1458	64+87.73	46.96	10	Spruce	G	G			
LAKEWOOD CREEK	1459	65+00.48	51.51	12	Crabapple	G	G			
LAKEWOOD CREEK	1460	65+14.84	47.26	12	Crabapple	G	G			
LAKEWOOD CREEK	1461	65+54.73	78.62	24	Weeping Willow	F	G			
LAKEWOOD CREEK	1462	65+71.65	95.26	6	Red Maple	G	F			
LAKEWOOD CREEK	1463	65+81.32	53.82	10	Spruce	G	G			
LAKEWOOD CREEK	1464	65+85.35	49.64	8	White Birch	G	G			
LAKEWOOD CREEK	1465	65+89.14	52.75	10	Spruce	G	G			
LAKEWOOD CREEK	1466	65+91.82	46.51	8	White Birch	G	G			
LAKEWOOD CREEK	729A	66+37.92	95.02	8	White Birch	G	G			
LAKEWOOD CREEK	729B	66+42.77	102.23	8	White Birch	G	G			
GRIFFIN	1605	76+32.89	74.55	10	Hybrid Elm	G	G			
GRIFFIN	1606	76+49.75	68.74	10	Hybrid Elm	G	G			
GRIFFIN	1607	76+65.32	76.28	8	Crabapple	G	G			
GRIFFIN	1608	76+78.73	71.18	8	Crabapple	G	G			
GRIFFIN	1609	76+91.56	76.68	8	Crabapple	G	G			
GRIFFIN	1610	77+09.89	70.29	8	Crabapple	G	G			
GRIFFIN	1611	77+23.37	75.46	6	Fir	G	G			
GRIFFIN	1612	77+35.61	68.13	6	Fir	G	G			
GRIFFIN	1613	77+50.25	70.06	6	Fir	G	G			
GRIFFIN	1614	77+64.32	74.6	6	Fir	G	G			
GRIFFIN	1615	77+81.52	73.85	8	Hybrid Elm	G	G			
GRIFFIN	1616	77+98.51	69.71	8	Hybrid Elm	G	G			
GRIFFIN	1617	78+15.70	78.1	8	Crabapple	G	G			
GRIFFIN	1618	78+27.80	83.6	8	Crabapple	G	G			
GRIFFIN	1619	78+39.63	97.85	8	Hybrid Elm	G	G			
GRIFFIN	1620	78+54.59	83.02	8	Crabapple	G	G			
GRIFFIN	1621	78+57.39	70.07	8	Crabapple	G	G			
GRIFFIN	1622	78+68.16	75.26	8	Crabapple	G	G			
GRIFFIN	1623	78+75.60	136.86	12	Pine	G	G			
ORCHARD	1662	102+53.87	79.9	7	Red Maple	G	G		Remove	Roadway improvements
ORCHARD	1663	102+79.62	96.99	4	Red Maple	G	G			
ORCHARD	1748	110+56.78	92.67	4	Red Maple	G	G			
ORCHARD	1749	110+74.14	98.96	4	Red Maple	Dead	P	Dead		
ORCHARD	1750	110+84.64	110.45	4	Red Maple	G	G			

Right Offsets

Tree Survey

Road	Tree Number	Station	Offset	Size (in)	Type	Health	Structure	Comment	Recommended Action	Impact
ORCHARD	1751	110+92.47	129.34	4	Red Maple	G	G		Remove	Roadway improvements
ORCHARD	1758	111+07.18	144.79	8	Callery Pear	G	G			
ORCHARD	1762	111+07.82	183.6	6	Callery Pear	G	G			
ORCHARD	1768	111+08.50	212.65	6	Callery Pear	G	G			
ORCHARD	1783	112+11.86	91.97	5	Oak	G	G			
ORCHARD	1784	112+74.87	91.54	6	Red Maple	G	G			
ORCHARD	1785	113+12.59	100.71	10	Serviceberry	G	G			
ORCHARD	1786	113+14.85	92.09	6	Red Maple	G	G			
ORCHARD	x001	113+30.82	272.64	30	Mulberry	G	G	Multi-Stem		
ORCHARD	1792	113+46.07	91.38	6	Red Maple	G	G			
ORCHARD	x002	113+75.73	272.33	12	Box Elder Maple	F	F			
ORCHARD	x003	113+78.81	243.33	10	Box Elder Maple	F	F			
ORCHARD	x004	114+01.78	252.59	16	Silver Maple	G	G			
ORCHARD	x005	114+18.15	239.63	14	Box Elder Maple	G	F			
ORCHARD	x006	114+23.98	225.2	8	Box Elder Maple	G	G			
ORCHARD	x007	114+38.95	217.83	20	Box Elder Maple	G	G			
ORCHARD	1803	118+26.66	56.85	36	Siberian Elm	G	F			
ORCHARD	1805	118+50.87	79.36	8	Juniper	G	G			
ORCHARD	1806	118+58.01	78.27	8	Juniper	G	G			
ORCHARD	1807	118+65.85	75.56	6	Juniper	G	G		Remove	Roadway improvements
ORCHARD	1808	118+67.41	81.15	8	Hybrid Elm	F	F			
ORCHARD	1809	118+69.79	84.89	10	Hybrid Elm	G	F			
HORSEMAN	1821	203+56.99	46.94	13	Hackberry	G	G			
HORSEMAN	1820	204+16.53	75.74	13	Hackberry	G	G			
HORSEMAN	1819	204+23.98	48.34	10	Hackberry	G	G			
HORSEMAN	1818	205+06.12	32.08	32	Silver Maple	G	P			
HORSEMAN	1816	205+95.17	34.18	20	Silver Maple	G	G			

Direct Count

Left Offsets

Left Offsets

Road	Tree Number	Station	Offset	Size (in)	Type	Health	Structure	Comment	Recommended Action	Impact
RTE 30	01A	1015+44.37	-59.17	18	Siberian Elm	F	F	Under powerline	Remove	Roadway improvements
RTE 30	01B	1021+16.41	-60.65	18	Siberian Elm	F	F	Under powerline	Remove	Roadway improvements
RTE 30	1	1024+61.77	-61.94	34	Box Elder Maple	F	F	Under powerline	Remove	Roadway improvements
RTE 30	3	1026+69.18	-64.44	30	Box Elder Maple	F	F	Under powerline	Remove	Roadway improvements
RTE 30	5	1028+37.31	-60.73	32	Box Elder Maple	F	F	Under powerline	Remove	Roadway improvements
RTE 30	5A	1037+18.10	-67.46	10	Box Elder Maple	F	F	Under powerline	Remove	Roadway improvements
RTE 30	5B	1039+66.12	-66.32	10	Box Elder Maple	F	F	Under powerline	Remove	Roadway improvements
RTE 30	5C	1040+19.34	-65.52	6	Siberian Elm	F	F	Under powerline	Remove	Roadway improvements
RTE 30	6	1040+97.62	-52.31	8	Box Elder Maple	F	F	Under powerline	Remove	Roadway improvements
RTE 30	7	1041+20.26	-59.31	8	Siberian Elm	F	F	Under powerline	Remove	Roadway improvements
RTE 30	8	1041+51.90	-62.67	10	Hackberry	F	F	Under powerline	Remove	Roadway improvements
RTE 30	9	1041+94.79	-62.69	14	Mulberry	F	F	Under powerline	Remove	Roadway improvements
RTE 30	10	1042+06.11	-62.81	6	Hackberry	F	F	Under powerline	Remove	Roadway improvements
RTE 30	11	1042+24.84	-63.29	14	Silver Maple	F	F	Under powerline	Remove	Roadway improvements
RTE 30	11A	1042+51.64	-62.16	6	Mulberry	F	F	Under powerline	Remove	Roadway improvements
RTE 30	11B	1044+32.57	-60.71	8	Box Elder Maple	F	F	Under powerline	Remove	Roadway improvements
RTE 30	12	1045+83.49	-57.91	16	Siberian Elm	F	F	Under powerline	Remove	Roadway improvements
RTE 30	13	1045+95.41	-57.92	12	Black Locust	F	F	Under powerline	Remove	Roadway improvements
RTE 30	14	1046+79.60	-59.09	8	Black Locust	F	F	Under powerline	Remove	Roadway improvements
RTE 30	15	1046+87.35	-58.06	6	Black Locust	F	F	Under powerline	Remove	Roadway improvements
RTE 30	16	1048+17.52	-59.83	8	Box Elder Maple	F	F	Under powerline	Remove	Roadway improvements
RTE 30	17	1050+28.13	-59.02	8	Black Locust	F	F	Under powerline	Remove	Roadway improvements
RTE 30	18	1050+30.51	-62.66	6	Black Locust	F	F	Under powerline	Remove	Roadway improvements
RTE 30	19	1050+75.74	-62.34	8	Box Elder Maple	F	F	Under powerline	Remove	Roadway improvements
RTE 30	19A	1053+66.83	-61.85	16	Box Elder Maple	F	F	Under powerline	Remove	Roadway improvements
RTE 30	19B	1053+79.59	-65.1	20	Box Elder Maple	F	F	Under powerline	Remove	Roadway improvements
RTE 30	21	1054+55.26	-59.1	6	Elm	F	F	Under powerline	Remove	Roadway improvements
RTE 30	22	1055+39.74	-64.08	10	Apple Fruit	F	F	Under powerline	Remove	Roadway improvements
RTE 30	23	1056+19.42	-62.05	20	Hackberry	F	F	Under powerline	Remove	Roadway improvements
RTE 30	24	1056+32.71	-61.87	10	Chinese Elm	F	F	Under powerline	Remove	Roadway improvements
RTE 30	25	1058+50.08	-50.06	10	Chinese Elm	F	F	Under powerline	Remove	Roadway improvements
RTE 30	26	1058+53.82	-65.66	10	Chinese Elm	F	F	Under powerline	Remove	Roadway improvements
RTE 30	26A	1058+54.50	-52.41	10	Chinese Elm	F	F	Under powerline	Remove	Roadway improvements
RTE 30	26B	1059+22.27	-48.41	16	Box Elder Maple	F	F	Under powerline	Remove	Roadway improvements
RTE 30	27	1059+86.85	-48.14	8	Chinese Elm	F	F	Under powerline	Remove	Roadway improvements
RTE 30	28	1061+41.80	-58.14	12	Black Locust	F	F	Under powerline	Remove	Roadway improvements
RTE 30	29	1063+28.80	-62.27	12	Siberian Elm	F	F	Under powerline	Remove	Roadway improvements
RTE 30	30	1064+56.72	-101.41	14	Box Elder Maple	G	F		Remove	Roadway improvements
RTE 30	31	1065+12.46	-75.22	2	Apple Fruit	G	G			
RTE 30	32	1065+20.13	-71.68	2	Apple Fruit	G	G			
RTE 30	33	1065+25.35	-71.54	2	Apple Fruit	G	G			
RTE 30	34	1072+05.40	-58.14	10	Tree of Heaven	F	F	Under powerline	Remove	Roadway improvements
RTE 30	35	1074+31.59	-59.76	10	Tree of Heaven	F	F	Under powerline	Remove	Roadway improvements
RTE 30	37	1078+44.19	-74.29	30	Honey Locust	G	G	Under powerline		
RTE 30	37A	1078+90.79	-50.83	8	Linden	G	F	Under powerline	Remove	Roadway improvements
RTE 30	38	1079+17.94	-69.56	20	Norway Maple	G	G	Under powerline	Remove	Roadway improvements

Left Offsets

Road	Tree Number	Station	Offset	Size (in)	Type	Health	Structure	Comment	Recommended Action	Impact
RTE 30	39	1079+51.82	-77.9	30	Silver Maple	G	F	Under powerline		
RTE 30	2000	1079+88.18	-62.84	18	Spruce	F	F	Under powerline	Remove	Roadway improvements
RTE 30	43	1079+94.52	-58.83	26	Box Elder Maple	F	F	Under powerline	Remove	Roadway improvements
RTE 30	2001	1079+95.50	-64.29	10	Crabapple	G	G		Remove	Roadway improvements
RTE 30	44	1080+36.96	-87.45	20	Crabapple	G	F	Under powerline		
RTE 30	45	1080+59.80	-109.46	6	Crimson King Maple	G	G	Landscape berm		
RTE 30	46	1080+66.35	-58.07	10	Box Elder Maple	F	F	Under powerline	Remove	Roadway improvements
RTE 30	47	1080+66.69	-98.09	6	Crimson King Maple	G	F	Landscape berm		
RTE 30	48	1080+90.50	-93.67	8	Red Maple	G	G	Landscape berm		
RTE 30	49	1081+13.24	-87.63	8	Red Maple	G	G	Landscape berm		
RTE 30	50	1081+31.38	-96.91	8	Red Maple	G	G	Landscape berm		
RTE 30	51	1081+48.53	-78.67		Hedge Maple	G	G			
RTE 30	52	1081+76.22	-120.07	8	Pine	G	G	Landscape berm		
RTE 30	53	1082+06.16	-94.83	6	Callery Pear	G	G	Landscape berm		
RTE 30	2002	1082+35.02	-81.12	6	Callery Pear	G	G	Landscape berm		
RTE 30	2003	1082+42.19	-88.07	8	Pine	G	G	Landscape berm		
RTE 30	2004	1082+58.21	-85.57	8	Pine	G	G	Landscape berm		
RTE 30	54	1082+62.16	-59.7	10	Hackberry	F	F	Landscape berm	Remove	Roadway improvements
RTE 30	2005	1082+69.35	-79.94	8	Pine	G	G	Landscape berm		
RTE 30	55	1082+81.97	-91.38	8	Callery Pear	G	G	Landscape berm		
RTE 30	56	1082+98.95	-78.24	8	Callery Pear	G	G	Landscape berm		
RTE 30	57	1083+15.93	-92.31	8	Callery Pear	G	G	Landscape berm		
RTE 30	59	1083+56.65	-86.14	8	Fir	G	G	Landscape berm		
RTE 30	60	1083+62.78	-92.55	8	Fir	G	G	Landscape berm		
RTE 30	61	1083+74.53	-89.89	6	Fir	G	G	Landscape berm		
RTE 30	62	1083+84.68	-110.43	6	Japanese Tree Lilac	G	G	Tree Form		
RTE 30	63	1083+85.08	-92.43	6	Fir	G	G	Landscape berm		
RTE 30	64	1084+10.39	-111.77	6	Japanese Tree Lilac	G	G	Tree Form		
RTE 30	65	1084+17.37	-81.73	6	Ash	Dead	P	Dead		
RTE 30	66	1084+35.34	-89.48	6	Ash	Dead	P	Dead		
RTE 30	67	1084+74.81	-120.38	6	Spruce	G	G	Landscape berm		
RTE 30	68	1084+87.17	-87.63	10	Red Maple	G	G	Landscape berm		
RTE 30	69	1084+95.67	-113.19	10	Red Maple	G	G	Landscape berm		
RTE 30	70	1085+34.17	-102.84	6	Ash	P	G	EAB present		
RTE 30	71	1085+42.30	-88.88	6	Washington Hawthorn	G	G	Landscape berm		
RTE 30	72	1085+58.61	-81.77	6	Ash	F	F	EAB present		
RTE 30	73	1085+59.71	-96.8	6	Crabapple	G	G	Landscape berm		
RTE 30	74	1085+71.99	-86.45	6	Washington Hawthorn	G	G	Landscape berm		
RTE 30	75	1086+04.53	-96.95	8	Fir	G	G	Landscape berm		
RTE 30	76	1086+12.66	-86.81	8	Fir	G	G	Landscape berm		
RTE 30	77	1086+23.20	-102.86	6	Norway Maple	G	G	Landscape berm		
RTE 30	78	1086+44.70	-60.46	20	Hackberry	F	F	Under powerline	Remove	Roadway improvements
RTE 30	79	1086+46.13	-92.73	6	Crabapple	G	G	Landscape berm		
RTE 30	80	1086+88.79	-86	8	Fir	G	G	Landscape berm		
RTE 30	81	1086+99.72	-44.99	8	Tree of Heaven	F	F	Under powerline	Remove	Roadway improvements
RTE 30	82	1087+04.68	-93.72	4	Fir	G	G	Landscape berm		

Left Offsets

Road	Tree Number	Station	Offset	Size (in)	Type	Health	Structure	Comment	Recommended Action	Impact
RTE 30	83	1087+22.08	-86.87	6	Ash	F	G	EAB present		
RTE 30	84	1087+43.06	-89.92	6	Crabapple	G	G	Landscape berm		
RTE 30	85	1087+48.72	-117.06	12	Crabapple	G	G	Backyard		
RTE 30	86	1087+60.54	-99.5	6	Red Maple	G	G	Landscape berm		
RTE 30	87	1087+73.03	-89.85	6	Spruce	G	G	Landscape berm		
RTE 30	88	1087+81.46	-83.49	6	Spruce	G	G	Landscape berm		
RTE 30	89	1087+90.48	-89.54	6	Crabapple	G	G	Landscape berm		
RTE 30	90	1088+00.86	-58.98	14	Hackberry	G	G	Under powerline	Remove	Roadway improvements
RTE 30	91	1088+03.64	-81.63	6	Red Maple	G	G	Landscape berm		
RTE 30	92	1088+17.60	-61.08	22	Hackberry	G	G	Under powerline	Remove	Roadway improvements
RTE 30	93	1088+21.89	-81.79	6	Crabapple	G	G	Landscape berm		
RTE 30	94	1088+25.99	-60.47	10	Hackberry	G	G	Under powerline	Remove	Roadway improvements
RTE 30	95	1088+31.33	-91.75	4	Spruce	F	P	Under powerline		
RTE 30	96	1088+40.23	-60.14	20	Hackberry	G	G	Under powerline	Remove	Roadway improvements
RTE 30	97	1088+44.74	-95.08	6	Crabapple	G	G			
RTE 30	98	1088+59.42	-96.02	4	Red Maple	G	G	Landscape berm		
RTE 30	99	1088+85.59	-58.48	20	Callery Pear	G	G	Under powerline	Remove	Roadway improvements
RTE 30	100	1088+92.60	-84.03	4	Red Maple	F	G	Landscape berm		
RTE 30	101	1089+06.31	-91.15	6	Crabapple	Dead	P	Dead		
RTE 30	102	1089+18.46	-80.7	6	Fir	G	G	Landscape berm		
RTE 30	103	1089+27.46	-88.7	6	Fir	G	G	Landscape berm		
RTE 30	104	1089+38.17	-97.64	8	Red Maple	G	G	Landscape berm		
RTE 30	106	1089+46.01	-81.4	6	Washington Hawthorn	G	G			
RTE 30	108	1089+65.75	-95.13	6	Fir	G	G	Landscape berm		
RTE 30	109	1089+77.86	-88.92	4	Fir	G	G	Landscape berm		
RTE 30	110	1089+93.63	-97.1	8	Fir	G	G	Landscape berm		
RTE 30	111	1089+94.32	-57.61	16	Box Elder Maple	F	F	Under powerline	Remove	Roadway improvements
RTE 30	112	1090+04.43	-96.39	10	Tree Lilac	G	G	Clump Form		
RTE 30	113	1090+13.90	-89.36	6	Honey Locust	G	G	Landscape berm		
RTE 30	114	1090+28.80	-92.48	10	Tree Lilac	G	G	Clump Form		
RTE 30	116	1090+39.37	-104.63	4	Honey Locust	G	G	Landscape berm		
RTE 30	117	1090+45.53	-57.72	16	Box Elder Maple	G	G	Under powerline	Remove	Roadway improvements
RTE 30	118	1090+45.74	-85.97	8	Spruce	G	G	Landscape berm		
RTE 30	119	1090+59.22	-93.09	6	Spruce	G	G	Landscape berm		
RTE 30	120	1090+72.96	-97.58	8	Tree Lilac	G	G	Clump Form		
RTE 30	121	1090+82.31	-79.29	8	Honey Locust	G	G	Landscape berm		
RTE 30	122	1090+82.56	-89.4	2	Spruce	G	G	Recently planted		
RTE 30	123	1090+92.73	-81.45	2	Pine	G	G	Landscape berm		
RTE 30	124	1091+03.87	-81.55	2	Pine	G	G	Landscape berm		
RTE 30	125	1091+09.78	-88.26	3	Spruce	G	G	Landscape berm		
RTE 30	127	1091+20.97	-81.82	10	Pine	G	G	Landscape berm		
RTE 30	128	1091+35.33	-87.82	10	Ash	F	G	EAB present		
RTE 30	129	1091+52.06	-88.41	3	Pine	G	G	Landscape berm		
RTE 30	130	1091+60.71	-88.16	2	Arborvitae	G	G	Recently planted		
RTE 30	131	1091+67.66	-80.24	12	Pine	G	G	Landscape berm		
RTE 30	132	1091+76.45	-88.3	2	Spruce	G	G	Landscape berm		

Road	Tree Number	Station	Offset	Size (in)	Type	Health	Structure	Comment	Recommended Action	Impact
RTE 30	133	1091+82.83	-82.04	2	Spruce	G	G	Landscape berm		
RTE 30	135	1092+06.12	-80.81	2	Pine	G	G	Landscape berm		
RTE 30	137	1092+23.26	-84.62	3	Pine	G	G	Landscape berm		
RTE 30	138	1092+33.06	-80.38	3	Pine	G	G	Landscape berm		
RTE 30	139	1092+42.00	-84.45	10	Callery Pear	G	G	Landscape berm		
RTE 30	140	1092+53.53	-84.67	3	Pine	G	G	Landscape berm		
RTE 30	141	1092+57.81	-76.28	2	Pine	G	G	Landscape berm		
RTE 30	144	1092+98.05	-76.53	6	Dogwood	G	G	Landscape berm		
RTE 30	146	1093+19.38	-80.49	6	Dogwood	G	G	Landscape berm		
RTE 30	148	1093+46.25	-76.67	10	Pine	G	G	Landscape berm		
RTE 30	149	1093+55.80	-84.45	8	Callery Pear	G	G	Landscape berm		
RTE 30	150	1093+66.54	-78.35	10	Pine	G	G	Landscape berm		
RTE 30	152	1094+01.30	-75.99	10	Pine	G	G	Landscape berm		
RTE 30	153	1094+12.71	-79.62	6	Dogwood	G	G	Landscape berm		
RTE 30	154	1094+13.39	-87.53	6	Dogwood	G	G	Landscape berm		
RTE 30	157	1094+39.24	-77.4	10	Serviceberry	G	G	Landscape berm		
RTE 30	158	1094+47.14	-84	10	Serviceberry	G	G	Landscape berm		
RTE 30	159	1094+55.03	-77.43	10	Pine	G	G	Landscape berm		
RTE 30	160	1094+58.50	-88.19	12	Red Maple	G	G	Landscape berm		
RTE 30	161	1094+70.25	-87.95	14	Spruce	G	G	Landscape berm		
RTE 30	162	1094+72.76	-74.02	6	Serviceberry	G	G	Landscape berm		
RTE 30	163	1094+82.92	-80.58	12	Spruce	G	G	Landscape berm		
RTE 30	164	1094+95.41	-89.44	12	Spruce	G	G	Landscape berm		
RTE 30	165	1094+95.72	-79.58	6	Callery Pear	G	G	Landscape berm		
RTE 30	166	1095+15.43	-79.03	12	Pine	G	G	Landscape berm		
RTE 30	167	1095+29.06	-73.72	12	Pine	G	G	Landscape berm		
RTE 30	168	1095+40.98	-87.86	14	Red Maple	G	G	Landscape berm		
RTE 30	169	1095+62.09	-77.81	10	Pine	G	G	Landscape berm		
RTE 30	170	1095+72.94	-110.57	8	Crabapple	G	G			
RTE 30	171	1095+74.36	-72.24	10	Pine	G	G	Landscape berm		
RTE 30	172	1095+87.68	-76.97	2	White Pine	G	G	Recently planted		
RTE 30	173	1095+94.46	-110.65	6	Crabapple	G	G			
RTE 30	174	1096+04.40	-74.63	4	White Pine	G	G	Recently planted		
RTE 30	175	1096+09.92	-110.12	6	Crabapple	G	G			
RTE 30	176	1096+22.85	-108.34	12	Callery Pear	G	G			
RTE 30	177	1096+24.54	-88.46	10	Callery Pear	G	G	Landscape berm		
RTE 30	178	1096+54.70	-78.28	10	Callery Pear	G	G	Landscape berm		
RTE 30	179	1096+54.92	-119.95	10	Crabapple	G	G	Backyard		
RTE 30	180	1096+82.28	-112.13	8	Red Maple	G	G	Landscape berm		
RTE 30	181	1097+00.54	-95.51	4	Pine	G	G	Landscape berm		
RTE 30	182	1097+01.64	-78.42	10	Callery Pear	G	G	Landscape berm		
RTE 30	183	1097+09.17	-116.98	10	Crabapple	G	G	Backyard		
RTE 30	184	1097+17.14	-87.3	4	White Pine	G	G	Landscape berm		
RTE 30	185	1097+22.91	-116.73	8	Red Maple	G	G	Backyard		
RTE 30	187	1097+44.62	-116.81	4	White Pine	G	G	Landscape berm		
RTE 30	188	1097+57.92	-118.01	4	Kentucky Coffee	G	G	Landscape berm		

Left Offsets

Road	Tree Number	Station	Offset	Size (in)	Type	Health	Structure	Comment	Recommended Action	Impact
RTE 30	189	1097+61.41	-77.5	10	Ash	F	F	EAB present		
RTE 30	190	1097+84.20	-77.12	8	Spruce	G	G	Landscape berm		
RTE 30	191	1098+18.16	-86.18	12	Callery Pear	G	G	Landscape berm		
RTE 30	192	1098+47.08	-83.06	8	Spruce	G	G	Landscape berm		
RTE 30	2006	1098+74.13	-75.37	8	Spruce	G	G	Landscape berm		
RTE 30	196	1098+99.05	-76.75	10	Washington Hawthorn	G	G	Landscape berm		
RTE 30	2007	1098+99.49	-89.66	10	Callery Pear	G	G	Landscape berm		
RTE 30	198	1099+14.34	-77.13	10	Washington Hawthorn	G	G	Landscape berm		
RTE 30	200	1099+29.38	-82.85	8	Spruce	G	G	Landscape berm		
RTE 30	201	1099+41.02	-77.82	8	Spruce	G	G	Landscape berm		
RTE 30	202	1099+57.68	-81.09	6	Crabapple	G	G	Landscape berm		
RTE 30	2008	1099+67.96	-95.79	12	Spruce	G	G	Landscape berm		
RTE 30	203	1099+95.39	-118.98	3	Tree Lilac	G	G	Landscape berm		
RTE 30	204	1099+99.98	-114.8	18	Honey Locust	G	G	Landscape berm		
RTE 30	2009	1100+00.58	-75.18	16	Callery Pear	G	G	Landscape berm		
RTE 30	205	1100+04.51	-116.31	16	Callery Pear	G	G	Landscape berm		
RTE 30	2010	1100+27.54	-101.24	16	Callery Pear	G	G	Landscape berm		
RTE 30	207	1101+35.52	-118.7	12	Elm	G	G		Remove	Roadway improvements
RTE 30	2019	1101+73.09	-163.91	12	Elm	G	G			
RTE 30	2020	1101+79.80	-147.2	10	Crabapple	G	G			
RTE 30	2021	1101+89.95	-135.44	8	Pine	G	G			
RTE 30	2022	1102+08.59	-118.03	10	Red Maple	G	G			
RTE 30	2023	1102+25.04	-114.65	8	Pine	G	G			
RTE 30	2024	1102+50.15	-101.41	10	Red Maple	G	G			
RTE 30	2025	1103+67.52	-81.05	10	Pine	G	G			
RTE 30	2026	1103+81.42	-78.08	10	Pine	G	G			
RTE 30	2028	1104+37.26	-71.34	10	Crabapple	G	G		Remove	Roadway improvements
RTE 30	2029	1104+83.76	-76.48	12	Crabapple	G	G			
RTE 30	2030	1105+00.61	-75.12	12	Crabapple	G	G			
RTE 30	2031	1105+18.07	-74.34	8	Pine	G	G			
RTE 30	2032	1105+33.71	-74.42	4	Fir	G	G	Recently planted		
RTE 30	2034	1105+93.19	-76.8	12	Crabapple	G	G			
RTE 30	2035	1106+07.92	-80.06	12	Crabapple	G	G			
RTE 30	208	1106+20.79	-113.63	8	Spruce	G	G			
RTE 30	209	1106+31.55	-111.66	8	Spruce	G	G			
RTE 30	210	1106+73.45	-112.29	12	Red Maple	G	G			
RTE 30	2037	1106+95.14	-79.52	12	Honey Locust	G	G			
RTE 30	2038	1107+20.10	-80.6	12	Crabapple	G	G			
RTE 30	2039	1107+43.52	-76.57	12	Crabapple	G	G			
RTE 30	2040	1107+92.40	-81.31	12	Honey Locust	G	G			
RTE 30	2041	1108+28.49	-84.51	12	Honey Locust	G	G			
RTE 30	2042	1108+80.46	-82.09	12	Honey Locust	G	G			
RTE 30	2043	1109+13.32	-89.29	12	Red Maple	G	G			
RTE 30	2044	1109+28.56	-78.13	16	Crabapple	G	G			
RTE 30	2045	1109+52.61	-91.03	12	Red Maple	G	G			
RTE 30	2046	1109+66.28	-103.35	12	Crabapple	G	G			

Road	Tree Number	Station	Offset	Size (in)	Type	Health	Structure	Comment	Recommended Action	Impact
RTE 30	2047	1109+98.81	-109.9	12	Red Maple	G	G			
RTE 30	2048	1110+13.02	-94.59	16	Serviceberry	G	G			
RTE 30	2049	1110+40.07	-100.27	16	Crabapple	G	G			
RTE 30	212	1110+51.49	-86.17	12	White Birch	G	G			
RTE 30	213	1110+70.17	-91.84	10	Pine	G	G			
RTE 30	214	1110+81.70	-84.16	10	Pine	G	G			
RTE 30	2050	1111+59.19	-80.11	12	Pine	G	G			
RTE 30	2051	1111+72.20	-91.46	8	Pine	G	G			
RTE 30	2052	1111+89.72	-82.2	12	White Birch	G	G			
RTE 30	2053	1112+74.31	-86.3	12	Crabapple	G	G			
RTE 30	2054	1112+90.35	-85.72	10	White Birch	G	G			
RTE 30	2055	1113+20.17	-83.65	12	Crabapple	G	G			
RTE 30	232	1113+93.55	-80.16	16	Ash	G	G			
RTE 30	2056	1114+42.08	-77.9	10	Ash	G	G			
RTE 30	2057	1114+72.65	-82.56	16	Pine	G	G			
RTE 30	2058	1114+90.94	-82.28	16	Pine	G	G			
RTE 30	2059	1115+58.01	-92.56	12	Honey Locust	G	G			
RTE 30	2060	1115+97.96	-81.01	24	Honey Locust	G	G			
RTE 30	244	1116+38.98	-81.06	8	Austrian Pine	G	G			
RTE 30	245	1116+51.97	-83.37	8	Crabapple	F	G			
RTE 30	2099H	1116+71.57	-87.79	8	Spruce	G	G			
RTE 30	2099G	1116+78.80	-76.67	10	Spruce	G	G			
RTE 30	2061	1117+39.25	-85.41	12	Crabapple	G	G			
RTE 30	2062	1117+61.40	-82.31	12	White Birch	G	G			
RTE 30	2066	1118+88.38	-91.24	12	White Birch	G	G			
RTE 30	2067	1119+41.78	-124.83	10	White Birch	G	G			
RTE 30	2068	1119+54.49	-128.23	8	Pine	G	G			
RTE 30	252	1120+17.39	-97.71	8	Callery Pear	G	G			
RTE 30	2069	1120+59.81	-76.41	16	Red Maple	G	G			
RTE 30	2070	1120+79.38	-75.14	16	Red Maple	G	G			
RTE 30	2071	1121+13.24	-85.21	16	Red Maple	G	G			
RTE 30	2072	1121+72.19	-77.23	4	Black Alder	G	G			
RTE 30	2073	1122+14.11	-89.1	10	Austrian Pine	G	G			
RTE 30	2107A	1122+32.36	-86.72	18	Crabapple	G	G			
RTE 30	2075	1122+90.27	-94.01	6	Pine	G	G			
RTE 30	2109A	1122+95.12	-88.07	10	Callery Pear	G	G			
RTE 30	2076	1123+09.71	-84.4	6	Black Alder	G	G			
RTE 30	2077	1123+21.82	-78.75	10	Crabapple	G	G			
RTE 30	257	1123+93.27	-80.57	8	Pine	G	G			
RTE 30	2079	1124+99.88	-81.84	12	Crabapple	G	G			
RTE 30	2080	1125+16.88	-80.93	12	Pine	G	G			
RTE 30	258	1125+34.09	-93.32	10	Ash	G	G			
RTE 30	648A	1125+74.98	-83.46	10	Swamp White Oak	G	G			
RTE 30	2081	1125+88.37	-74.35	18	Honey Locust	G	G			
RTE 30	2082	1126+01.66	-82.18	12	Pine	G	G			
RTE 30	261	1126+28.84	-75.54	8	Crabapple	G	G			

Road	Tree Number	Station	Offset	Size (in)	Type	Health	Structure	Comment	Recommended Action	Impact
RTE 30	262	1126+31.56	-79.43	8	Crabapple	G	G			
RTE 30	266	1126+56.82	-81.26	16	Honey Locust	G	G			
RTE 30	268	1126+76.87	-88.92	16	Pine	G	G			
RTE 30	269	1126+92.05	-87.97	14	Pine	G	G			
RTE 30	2122A	1126+98.25	-82.53	16	Crabapple	G	G			
RTE 30	270	1126+99.85	-99.08	8	Pine	G	G			
RTE 30	271	1127+77.07	-102.94	18	Red Oak	G	G			
RTE 30	272	1128+09.32	-100.41	12	River Birch	G	G			
RTE 30	2126A	1128+18.33	-90.33	10	Crabapple	G	G			
RTE 30	2126B	1128+34.79	-91.39	8	Crabapple	G	F			
RTE 30	273	1128+36.00	-98.85	6	Red Maple	G	G			
RTE 30	274	1128+63.59	-98.03	16	River Birch	G	G			
RTE 30	275	1128+81.46	-103.27	12	River Birch	G	G			
RTE 30	276	1129+18.79	-103.46	6	Red Maple	G	G			
RTE 30	277	1129+65.54	-107.99	12	River Birch	G	G			
RTE 30	278	1129+65.55	-106.89	12	River Birch	G	G			
RTE 30	279	1129+85.62	-104.15	12	River Birch	G	G			
RTE 30	280	1129+85.71	-104.61	12	Red Maple	G	G			
RTE 30	281	1130+07.79	-111.92	4	English Oak	F	G			
RTE 30	281A	1130+99.52	-62.45	10	Siberian Elm	G	G	Under powerline	Remove	Roadway improvements
RTE 30	282	1132+80.29	-61.92	16	Cottonwood	G	F	Under powerline	Remove	Roadway improvements
RTE 30	284	1138+63.91	-56.07	4	Arborvitae	F	F	Under powerline	Remove	Roadway improvements
RTE 30	2138A	1142+47.91	-82.54	8	White Birch	G	G			
RTE 30	2138B	1142+56.01	-83.56	8	White Birch	G	G			
RTE 30	2138C	1142+63.10	-88.97	8	White Birch	G	G			
RTE 30	288	1145+27.76	-53.17	4	Mulberry	F	F		Remove	Roadway improvements
RTE 30	289	1145+29.98	-140.54	10	Mulberry	F	F			
RTE 30	290	1145+44.48	-58.56	2	Fir	G	G	Recently planted	Remove	Roadway improvements
RTE 30	291	1145+60.82	-124.78	2	Fir	G	G	Recently planted		
RTE 30	294	1145+87.39	-114.85	2	Red Maple	G	G	Recently planted		
RTE 30	295	1146+02.70	-117.39	2	Red Maple	G	G	Recently planted		
RTE 30	296	1146+31.90	-115.75	2	Fir	G	G			
RTE 30	297	1146+58.11	-110.61	2	Fir	G	G			
RTE 30	298	1146+83.61	-106.1	2	Fir	G	G			
RTE 30	338	1155+26.12	-103.42	2	Honey Locust	G	G	Recently planted		
RTE 30	339	1155+51.13	-100.14	2	Honey Locust	G	G	Recently planted		
RTE 30	341	1155+79.39	-86.33	2	Honey Locust	G	G	Recently planted		
RTE 30	342	1156+02.84	-80.29	2	Honey Locust	G	G	Recently planted		
RTE 30	343	1156+44.15	-77.71		Honey Locust	G	G	Recently planted		
RTE 30	345	1156+64.91	-91.49	2	Honey Locust	G	G	Recently planted		
RTE 30	346	1156+79.15	-94.66	2	Honey Locust	G	G	Recently planted		
RTE 30	347	1156+99.97	-105.56	2	Honey Locust	G	G	Recently planted		
RTE 30	348	1159+56.20	-95.86	2	Honey Locust	G	G	Recently planted		
RTE 30	349	1160+17.67	-111.92	2	Honey Locust	G	G	Recently planted		
RTE 30	350	1160+52.61	-110.99	2	Honey Locust	G	G	Recently planted		
RTE 30	351	1160+75.24	-111.22	2	Honey Locust	G	G	Recently planted		

Left Offsets

Road	Tree Number	Station	Offset	Size (in)	Type	Health	Structure	Comment	Recommended Action	Impact
RTE 30	352	1161+01.65	-131	2	Honey Locust	G	G	Recently planted		
RTE 30	353	1161+24.11	-119.31	2	Honey Locust	G	G	Recently planted		
RTE 30	354A	1166+67.35	-87.49	48	Silver Maple	G	G			
RTE 30	355	1167+07.99	-89.43	36	Norway Maple	G	G			
RTE 30	356	1167+54.61	-84.06	18	Mulberry	G	G			
RTE 30	357	1167+59.47	-87.95	30	Norway Maple	G	G			
RTE 30	358	1170+79.48	-113.26	24	Buckthorn	F	F			
RTE 30	359	1174+30.30	-57.82	8	Mulberry	F	F	Under powerline	Remove	Roadway improvements
RTE 30	359A	1175+42.54	-55.78	10	Tree of Heaven	F	F	Under powerline	Remove	Roadway improvements
RTE 30	359B	1175+46.48	-55.72	10	Tree of Heaven	F	F	Under powerline	Remove	Roadway improvements
RTE 30	359C	1175+82.87	-61.85	12	Hackberry	G	F	Under powerline	Remove	Roadway improvements
RTE 30	359D	1176+19.76	-61.28	12	Hackberry	G	F	Under powerline	Remove	Roadway improvements
RTE 30	359E	1176+60.43	-62.37	12	Hackberry	G	F	Under powerline	Remove	Roadway improvements
RTE 30	359F	1176+69.03	-62.23	12	Hackberry	G	F	Under powerline	Remove	Roadway improvements
RTE 30	359G	1177+18.95	-62.75	12	Hackberry	G	F	Under powerline	Remove	Roadway improvements
RTE 30	359H	1177+30.50	-62.57	12	Hackberry	G	F	Under powerline	Remove	Roadway improvements
RTE 30	360	1178+46.39	-59.66	8	Hackberry	G	F	Under powerline	Remove	Roadway improvements
RTE 30	2084	1179+06.00	-66.51	8	Box Elder Maple	F	F		Remove	Roadway improvements
RTE 30	361	1179+10.48	-60.17	8	Hackberry	F	F	Under powerline	Remove	Roadway improvements
RTE 30	2085	1179+12.28	-68.98	8	Box Elder Maple	F	F		Remove	Roadway improvements
RTE 30	2086	1179+19.38	-65.38	8	Box Elder Maple	F	F		Remove	Roadway improvements
RTE 30	2087	1179+20.93	-70.68	8	Box Elder Maple	F	F		Remove	Roadway improvements
RTE 30	2088	1179+28.24	-68.72	8	Box Elder Maple	F	F		Remove	Roadway improvements
RTE 30	362	1179+30.82	-62.08	12	Hackberry	F	F	Under powerline	Remove	Roadway improvements
RTE 30	363	1179+96.15	-54.36	18	Buckthorn	F	F	Under powerline	Remove	Roadway improvements
RTE 30	364	1179+96.15	-54.36	10	Siberian Elm	F	F	Under powerline	Remove	Roadway improvements
RTE 30	365	1180+08.47	-58.7	8	Siberian Elm	F	F	Under powerline	Remove	Roadway improvements
RTE 30	366	1180+21.14	-60.18	16	Siberian Elm	F	F	Under powerline	Remove	Roadway improvements
RTE 30	367	1180+43.27	-59.15	10	Siberian Elm	F	F	Under powerline	Remove	Roadway improvements
RTE 30	368	1180+53.15	-62.1	16	Siberian Elm	F	F	Under powerline	Remove	Roadway improvements
RTE 30	369	1180+53.15	-62.08	8	Hackberry	G	F	Under powerline	Remove	Roadway improvements
RTE 30	371	1181+46.64	-59.61	30	Silver Maple	G	G	Under powerline	Remove	Roadway improvements
RTE 30	372	1181+57.05	-70.6	32	Silver Maple	F	F	Under powerline	Remove	Roadway improvements
RTE 30	373	1181+75.44	-68.26	24	Silver Maple	G	G	Under powerline	Remove	Roadway improvements
RTE 30	374	1181+91.47	-84.44	30	Silver Maple	G	G	Under powerline		
RTE 30	375	1181+95.04	-67.35	24	Silver Maple	G	G	Under powerline	Remove	Roadway improvements
RTE 30	376	1182+12.37	-68.3	24	Silver Maple	G	G	Under powerline	Remove	Roadway improvements
RTE 30	377	1182+29.76	-77.41	18	American Linden	G	G	Under powerline	Remove	Roadway improvements
RTE 30	379	1182+40.87	-88.39	24	Red Maple	G	G			
RTE 30	383	1182+66.25	-82.69	12	Spruce	G	G			
RTE 30	384	1182+70.72	-73.84	12	Spruce	G	G		Remove	Roadway improvements
RTE 30	385	1182+74.43	-82.63	12	Spruce	G	G			
RTE 30	386	1182+77.67	-74.01	12	Spruce	G	G		Remove	Roadway improvements
RTE 30	387	1182+80.48	-82.76	24	Silver Maple	G	G			
RTE 30	388	1183+07.14	-82.3	18	Sugar Maple	G	G			
RTE 30	389	1183+07.52	-91.5	18	Sugar Maple	G	G			

Left Offsets

Road	Tree Number	Station	Offset	Size (in)	Type	Health	Structure	Comment	Recommended Action	Impact
RTE 30	391	1183+23.30	-74.29	16	Spruce	G	G	Under powerline	Remove	Roadway improvements
RTE 30	392	1183+33.74	-76.07	12	Spruce	G	G	Under powerline	Remove	Roadway improvements
RTE 30	393	1183+34.58	-93.72	12	Sugar Maple	G	G	Under powerline		
RTE 30	394	1183+46.81	-95.44	12	Sugar Maple	G	G	Under powerline		
RTE 30	395	1183+51.15	-74.9	16	Spruce	G	G	Under powerline	Remove	Roadway improvements
RTE 30	396	1183+65.44	-73.51	20	Spruce	G	G	Under powerline	Remove	Roadway improvements
RTE 30	397	1183+79.45	-73.14	20	Spruce	G	G	Under powerline	Remove	Roadway improvements
RTE 30	398	1183+94.22	-73.43	18	Spruce	G	G	Under powerline	Remove	Roadway improvements
RTE 30	399	1184+06.34	-73.25	20	Spruce	G	G	Under powerline	Remove	Roadway improvements
RTE 30	400	1184+22.97	-72.93	18	Spruce	G	G	Under powerline	Remove	Roadway improvements
RTE 30	401	1184+35.09	-86.72	30	Ash	F	F	EAB present		
RTE 30	402	1184+52.02	-70.2	60	Pine	G	F	Under powerline	Remove	Roadway improvements
RTE 30	403	1184+59.61	-81.58	24	Spruce	G	G	Under powerline		
RTE 30	404	1184+66.83	-73.77	16	Spruce	G	G	Under powerline	Remove	Roadway improvements
RTE 30	405	1184+81.64	-73.69	20	Spruce	G	G	Under powerline	Remove	Roadway improvements
RTE 30	406	1184+89.77	-82.16	8	Mulberry	G	G	Under powerline		
RTE 30	407	1184+96.10	-72.02	18	Spruce	F	F	Under powerline	Remove	Roadway improvements
RTE 30	408	1184+96.65	-73.45	18	Spruce	F	F	Under powerline	Remove	Roadway improvements
RTE 30	409	1185+00.81	-102.02	12	Spruce	F	F	Under powerline		
RTE 30	410	1185+10.81	-72.97	18	Spruce	F	F	Under powerline	Remove	Roadway improvements
RTE 30	411	1185+16.16	-103.97	18	Spruce	F	F	Under powerline		
RTE 30	412	1185+56.14	-60.73	12	Crabapple	F	F	Under powerline	Remove	Roadway improvements
RTE 30	413	1185+66.79	-61.05	10	Fir	G	G	Under powerline	Remove	Roadway improvements
RTE 30	414	1185+69.24	-102.91	30	Red Maple	G	G			
RTE 30	415	1185+74.26	-73.75	24	Norway Maple	G	G	Under powerline	Remove	Roadway improvements
RTE 30	417	1185+77.73	-61.02	10	Fir	F	F		Remove	Roadway improvements
RTE 30	419	1186+01.72	-58.84	12	Crabapple	G	G	Under powerline	Remove	Roadway improvements
RTE 30	420	1186+11.66	-61.46	10	Fir	G	G	Under powerline	Remove	Roadway improvements
RTE 30	422	1186+27.52	-60.11	10	Fir	G	G	Under powerline	Remove	Roadway improvements
RTE 30	423	1186+34.67	-60.2	10	Crabapple	F	F	Under powerline	Remove	Roadway improvements
RTE 30	424	1186+46.97	-60.76	12	Spruce	G	G	Under powerline	Remove	Roadway improvements
RTE 30	425	1186+68.15	-61.54	12	Crabapple	G	G	Under powerline	Remove	Roadway improvements
RTE 30	426	1186+76.70	-76.88	33	Birch	G	G	Under powerline	Remove	Roadway improvements
RTE 30	427	1187+49.77	-103.86	12	Red Maple	G	G			
RTE 30	428	1187+60.53	-67.75	10	Red Maple	G	G		Remove	Roadway improvements
RTE 30	429	1187+80.74	-71.72	20	Sugar Maple	G	G		Remove	Roadway improvements
RTE 30	430	1187+97.34	-77.86	20	Sugar Maple	G	G		Remove	Roadway improvements
RTE 30	431	1188+07.83	-72.28	20	Sugar Maple	G	G		Remove	Roadway improvements
RTE 30	432	1188+16.89	-67.22	20	Sugar Maple	G	G		Remove	Roadway improvements
RTE 30	433	1188+36.74	-92.24	8	Red Maple	G	G			
RTE 30	434	1188+44.45	-66.65	20	Sugar Maple	G	G		Remove	Roadway improvements
RTE 30	435	1188+50.66	-104.05	20	Sugar Maple	G	G			
RTE 30	436	1188+64.09	-65.88	20	Sugar Maple	G	G		Remove	Roadway improvements
RTE 30	437	1188+76.01	-92.65	8	Red Maple	G	G			
RTE 30	438	1189+01.94	-102.84	10	American Linden	G	G			
RTE 30	439	1189+07.68	-63.66	18	American Linden	F	F		Remove	Roadway improvements

Road	Tree Number	Station	Offset	Size (in)	Type	Health	Structure	Comment	Recommended Action	Impact
RTE 30	440	1189+15.64	-63	18	Catalpa	P	F		Remove	Roadway improvements
RTE 30	441	1189+28.74	-62.06	8	Pine	F	F		Remove	Roadway improvements
RTE 30	442	1189+37.03	-62.19	36	Red Maple	G	F		Remove	Roadway improvements
RTE 30	443	1189+43.18	-56.07	12	Pine	F	F		Remove	Roadway improvements
RTE 30	445	1189+60.24	-62.66	12	Pine	F	F		Remove	Roadway improvements
RTE 30	447	1189+75.35	-60.77	12	Pine	F	F		Remove	Roadway improvements
RTE 30	448	1189+84.09	-57.85	12	Pine	F	F		Remove	Roadway improvements
RTE 30	449	1189+90.04	-62.98	24	Red Maple	G	G		Remove	Roadway improvements
RTE 30	450	1190+10.71	-61.38	12	White Birch	G	G		Remove	Roadway improvements
RTE 30	451	1190+11.11	-84.95	24	Silver Maple	G	G		Remove	Roadway improvements
RTE 30	452	1190+32.72	-81.11	8	Little Leaf Linden	F	F		Remove	Roadway improvements
RTE 30	453	1190+32.97	-61.06	18	Birch	G	G		Remove	Roadway improvements
RTE 30	456	1190+63.81	-67.14	12	Birch	F	F		Remove	Roadway improvements
RTE 30	457	1191+03.85	-73.27	18	Hackberry	P	P		Remove	Roadway improvements
RTE 30	462	1191+88.01	-118	12	Elm	F	F			
RTE 30	463	1191+97.39	-108.51	12	Birch	F	F			
RTE 30	464	1192+02.74	-118.4	18	Willow	F	F			
RTE 30	x011	1194+67.28	-178.57	12	Box Elder Maple	G	G			
RTE 30	x008	1194+73.64	-199.67	14	Box Elder Maple	G	G			
RTE 30	x009	1194+89.49	-201.25	12	Box Elder Maple	F	F			
RTE 30	x010	1195+04.69	-203.82	6	Box Elder Maple	F	F			
RTE 30	471	1199+86.28	-92.32	12	Siberian Elm	G	G			
RTE 30	472	1201+23.25	-97.56	8	Siberian Elm	F	F		Remove	Roadway improvements
RTE 30	473	1201+30.01	-95.47	10	Honey Locust	F	F		Remove	Roadway improvements
RTE 30	474	1201+44.41	-96.6	6	Siberian Elm	F	F		Remove	Roadway improvements
RTE 30	475	1201+58.22	-96.06	8	Siberian Elm	F	F		Remove	Roadway improvements
RTE 30	476	1202+08.39	-95.94	8	Siberian Elm	F	F		Remove	Roadway improvements
RTE 30	477	1202+21.98	-58.64	8	Siberian Elm	F	F		Remove	Roadway improvements
RTE 30	478	1202+22.95	-96.1	6	Siberian Elm	F	F		Remove	Roadway improvements
RTE 30	479	1202+26.78	-60.71	48	Mulberry	F	F	Under powerline	Remove	Roadway improvements
RTE 30	480	1202+32.97	-104.62	10	Siberian Elm	F	F	Under powerline	Remove	Roadway improvements
RTE 30	481	1202+49.14	-92.98	6	Siberian Elm	F	F	Under powerline	Remove	Roadway improvements
RTE 30	482	1202+74.05	-105.67	12	Siberian Elm	F	F	Under powerline	Remove	Roadway improvements
RTE 30	483	1203+63.98	-118.76	8	Honey Locust	F	F	Under powerline	Remove	Roadway improvements
RTE 30	484	1203+73.08	-120.63	8	Honey Locust	F	F	Under powerline	Remove	Roadway improvements
RTE 30	485	1205+20.15	-108.82	8	Siberian Elm	F	F	Under powerline	Remove	Roadway improvements
RTE 30	2157E	1205+52.12	-85.8	20	Hackberry	F	F		Remove	Roadway improvements
RTE 30	2158A	1205+61.36	-86.47	20	Mulberry	F	F		Remove	Roadway improvements
RTE 30	2157B	1205+72.16	-83.21	7	Hackberry	F	F		Remove	Roadway improvements
RTE 30	2157C	1205+89.41	-83.42	30	Hackberry	F	F		Remove	Roadway improvements
RTE 30	2157A	1206+08.61	-82.78	10	Hackberry	F	F		Remove	Roadway improvements
RTE 30	2157D	1206+14.49	-72.56	24	Hackberry	F	F		Remove	Roadway improvements
RTE 30	2060A	1206+31.06	-92.06	10	Buckthorn	F	F		Remove	Roadway improvements
RTE 30	486	1210+88.88	-124.6	18	Red Maple	G	G			
RTE 30	487	1211+44.11	-122.04	12	Red Maple	G	G			
RTE 30	488	1211+80.73	-119.04	16	Apple Fruit	G	G			

Left Offsets

Road	Tree Number	Station	Offset	Size (in)	Type	Health	Structure	Comment	Recommended Action	Impact
RTE 30	489	1212+29.40	-120.37	72	Silver Maple	G	G			
RTE 30	490	1213+14.93	-122.26	18	Silver Maple	G	G			
RTE 30	1075A	1218+67.98	-63.68	19	Siberian Elm	F	F		Remove	Roadway improvements
RTE 30	1075B	1218+72.59	-66.13	38	Siberian Elm	F	F		Remove	Roadway improvements
RTE 30	1075C	1218+76.52	-63.8	9	Crabapple	F	F		Remove	Roadway improvements
RTE 30	492	1219+64.64	-109.78	24	Honey Locust	G	G			
RTE 30	493	1229+49.67	-76.96	30	Silver Maple	G	G			
RTE 30	494	1229+56.77	-95.77	30	Silver Maple	G	G			
RTE 30	1111A	1238+44.73	-59.66	32	Silver Maple	G	F		Remove	Roadway improvements
RTE 30	1111B	1238+56.51	-59.26	24	Box Elder Maple	F	F		Remove	Roadway improvements
RTE 30	1111C	1238+69.59	-58.4	14	Box Elder Maple	G	F		Remove	Roadway improvements
RTE 30	1111D	1239+47.97	-65.26	26	Siberian Elm	G	F		Remove	Roadway improvements
RTE 30	1113A	1244+98.73	-47.46	8	Hackberry	F	F		Remove	Roadway improvements
RTE 30	499	1252+42.42	-120.52	12	Hawthorn	G	G	Multi-stem		
RTE 30	500	1252+44.68	-101.5	8	Hawthorn	G	G	Multi-stem		
RTE 30	501	1252+80.85	-77.91	16	Elm	G	G			
RTE 30	505	1253+64.09	-119.19	3	Crabapple	G	G	Multi-Stem		
RTE 30	506	1253+98.61	-64.32		Arborvitae	G	G			
RTE 30	507	1254+09.13	-65.06		Arborvitae	G	G			
RTE 30	508	1254+54.58	-83.59	6	Hackberry	F	F			
RTE 30	510	1256+39.84	-70.9	48	Cottonwood	G	G			
BERTRAM	30A	11+02.58	-13.82	14	Box Elder Maple	G	F		Remove	Roadway improvements
DICKSON	1173	20+21.60	-30.56	24	Hackberry	F	F		Remove	Roadway improvements
DICKSON	1174	24+42.74	-20.36	48	Hackberry	G	G		Remove	Roadway improvements
DICKSON	1175	24+78.49	-32.14	24	Box Elder Maple	F	F		Remove	Roadway improvements
GORDON	1251	32+48.93	-0.34	8	Red Maple	G	G	Median		
GORDON	1255	33+11.79	-0.27	8	Red Maple	G	G	Median		
GORDON	1257	33+42.56	-0.25	8	Red Maple	G	G	Median		
GORDON	1184	38+37.79	-5.65	4	Red Maple	G	G	Median	Remove	Roadway improvements
GORDON	1185	38+43.13	-5.63	4	Red Maple	F	G	Median	Remove	Roadway improvements
GORDON	1186	38+48.74	-5.51	4	Red Maple	F	G	Median	Remove	Roadway improvements
GORDON	207C	40+72.12	-61.07	4	Pine	G	G		Remove	Roadway improvements
GORDON	207D	40+90.63	-49.62	3	Crabapple	G	G		Remove	Roadway improvements
GORDON	1188	41+21.20	-39.77	12	Elm	G	G	Parkway	Remove	Roadway improvements
GORDON	1192	41+29.62	-121.01	12	Ash	G	G	EAB present		
GORDON	1197	41+44.19	-85.18	10	Honey Locust	G	G	Landscape berm		
GORDON	1202	41+61.70	-39.71	8	Elm	G	G	Parkway	Remove	Roadway improvements
GORDON	1209	42+01.68	-39.19	8	Elm	G	G	Parkway	Remove	Roadway improvements
GORDON	1215	42+42.74	-39.5	12	Elm	G	G	Parkway	Remove	Roadway improvements
GORDON	1219	42+82.17	-39.26	10	Elm	G	G		Remove	Roadway improvements
GORDON	2013B	43+02.10	-78.44	10	Crabapple	G	G			
GORDON	2013A	43+12.52	-78.7	10	Pine	G	G			
GORDON	1222	43+22.96	-38.93	10	Elm	G	G	Parkway	Remove	Roadway improvements

Road	Tree Number	Station	Offset	Size (in)	Type	Health	Structure	Comment	Recommended Action	Impact
GORDON	1226	43+62.30	-38.86	10	Red Maple	G	G		Remove	Roadway improvements
GORDON	1228	44+02.18	-39.07	10	Red Maple	G	G	Parkway	Remove	Roadway improvements
GORDON	1230	44+40.07	-39.09	10	Red Maple	G	G	Parkway	Remove	Roadway improvements
GORDON	1233	44+79.95	-39.03	12	Red Maple	G	G	Parkway	Remove	Roadway improvements
GORDON	1237	45+18.20	-38.87	4	Norway Maple	G	G	Parkway	Remove	Roadway improvements
GORDON	1238	45+57.17	-39.25	6	Norway Maple	G	G	Parkway		
GORDON	1244	46+36.21	-39.94	8	Honey Locust	G	G	Parkway		
GORDON	1246	46+75.02	-38.7	10	Ash	P	F	EAB present		
GORDON	1249	47+11.39	-39.15	2	Red Oak	G	G	Recently planted/Parkway		
GORDON	1280A	47+55.60	-37.91	8	Ash	P	F	EAB present		
PRESCOTT	1296	54+96.72	-20.93	6	Norway Maple	G	G	Parkway		
PRESCOTT	1297	55+31.46	-22.54	6	Norway Maple	G	G	Parkway		
PRESCOTT	1300	55+42.42	-36.93	6	Fir	G	G			
PRESCOTT	1301	55+50.15	-37.46	8	Crabapple	G	G			
PRESCOTT	1302	55+58.87	-39.91	8	Crabapple	G	G			
PRESCOTT	1303	55+62.42	-39.31	6	Spruce	G	G			
PRESCOTT	1304	55+69.42	-40.29	8	Crabapple	G	G			
PRESCOTT	1305	55+81.72	-38.77	8	Crabapple	G	G			
PRESCOTT	1306	55+87.47	-36.73	10	Ash	P	F	EAB present		
PRESCOTT	1307	55+93.90	-40.43	10	Ash	P	F	EAB present		
PRESCOTT	1308	56+04.17	-41.8	10	Fir	G	G			
PRESCOTT	1341A	56+14.11	-41.47	10	Spruce	G	G			
PRESCOTT	1339A	56+35.26	-1.98	8	Japanese Tree Lilac	G	G	Median		
PRESCOTT	1341B	56+38.76	-42.19	4	River Birch	Dead	P	Dead		
PRESCOTT	1339B	56+57.79	-1.57	8	Japanese Tree Lilac	G	G	Median		
LAKEWOOD CREEK	1368	64+06.67	-15.64	10	Red Maple	G	G			
LAKEWOOD CREEK	1374	64+46.71	-18.9	8	Red Maple	G	G			
LAKEWOOD CREEK	1375	64+47.29	-98.92		Evergreen	G	G			
LAKEWOOD CREEK	1377	64+56.20	-65.78	10	Callery Pear	G	G			
LAKEWOOD CREEK	1379	64+60.05	-92.06	8	Ash	G	G			
LAKEWOOD CREEK	1380	64+71.82	-93.73	12	Spruce	G	G			
LAKEWOOD CREEK	1381	64+84.80	-20.37	10	Red Maple	G	G			
LAKEWOOD CREEK	1383	64+97.51	-98.27	16	Crabapple	G	G			
LAKEWOOD CREEK	1384	65+10.35	-87.87	12	Crabapple	G	G			
LAKEWOOD CREEK	1385	65+14.88	-63.87	14	Callery Pear	G	G			
LAKEWOOD CREEK	1387	65+27.60	-97.92	12	Fir	G	G			
LAKEWOOD CREEK	1389	65+54.73	-97.49	8	Ash	G	G			
LAKEWOOD CREEK	1390	65+65.85	-96.69	8	Crabapple	G	G			
LAKEWOOD CREEK	1391	65+78.81	-22.7	12	Crabapple	G	G			
LAKEWOOD CREEK	1392	65+84.48	-16.74	12	Crabapple	G	G			
LAKEWOOD CREEK	1393	65+85.48	-24.43	12	Crabapple	G	G			
LAKEWOOD CREEK	1394	65+89.51	-19.8	12	Fir	G	G			
LAKEWOOD CREEK	1395	65+90.80	-107.77	12	Fir	G	G			
LAKEWOOD CREEK	1396	65+92.28	-93.38	12	Fir	G	G			

Left Offsets

Road	Tree Number	Station	Offset	Size (in)	Type	Health	Structure	Comment	Recommended Action	Impact
LAKEWOOD CREEK	1397	66+01.25	-19.87	10	Tree Lilac	G	G			
LAKEWOOD CREEK	1398	66+10.21	-125.21	12	Fir	G	G			
LAKEWOOD CREEK	1466C	66+11.52	-67.18	10	Spruce	G	G			
LAKEWOOD CREEK	1399	66+14.01	-20.19	10	Tree Lilac	G	G			
LAKEWOOD CREEK	1466D	66+16.04	-57.11	10	Pine	G	G			
LAKEWOOD CREEK	1466B	66+19.15	-74.83	10	Spruce	G	G			
LAKEWOOD CREEK	1400	66+20.68	-147.32	12	Fir	G	G			
LAKEWOOD CREEK	1401	66+21.77	-132.3	12	Fir	G	G			
LAKEWOOD CREEK	1402	66+23.16	-84.27	12	Fir	G	G			
LAKEWOOD CREEK	1466A	66+33.88	-93.77	10	White Birch	G	G			
LAKEWOOD CREEK	1466E	66+37.35	-101.76	14	Callery Pear	G	G			
LAKEWOOD CREEK	730A	66+44.67	-75.9	10	White Birch	G	G			
LAKEWOOD CREEK	730B	66+52.82	-83.54	10	White Birch	G	G			
GRIFFIN	1527	75+61.81	-51	10	Ash	G	G			
GRIFFIN	1528	75+77.15	-72.52	12	Pine	G	G			
GRIFFIN	1532	76+43.05	-69	10	Norway Maple	G	G			
GRIFFIN	1534	76+61.25	-51	10	Ash	F	G			
GRIFFIN	1536	76+64.30	-8.26	8	Red Maple	G	G			
GRIFFIN	1539	76+83.96	-9.01	8	Red Maple	G	G			
GRIFFIN	1540	76+85.06	-68.14	16	Crabapple	G	G			
GRIFFIN	1544	77+11.28	-71.41	12	Spruce	G	G			
GRIFFIN	1546	77+18.67	-9.04	8	Red Maple	G	G			
GRIFFIN	1560	77+67.20	-70.67	8	Norway Maple	G	G			
GRIFFIN	1563	77+75.44	-10.33	8	Red Maple	G	G			
GRIFFIN	1567	77+99.27	-48.54	8	Ash	G	F			
GRIFFIN	1568	78+04.01	-7.83	8	Red Maple	G	G			
GRIFFIN	1569	78+24.32	-6.47	8	Red Maple	G	G		Remove	Roadway improvements
GRIFFIN	1571	78+34.74	-70.2	10	Spruce	G	G			
GRIFFIN	1572	78+43.69	-71.57	12	Pine	G	G			
GRIFFIN	1574	78+52.47	-67.61	8	Ash	Dead	P	Dead		
GRIFFIN	1577	78+68.19	-67.55	12	Pine	G	G			
BLACKBERRY	1624	91+82.96	-43.96	12	Crabapple	G	G			
BLACKBERRY	1625	92+06.48	-48.19	24	Red Maple	G	G			
BLACKBERRY	1626	92+68.61	-42.78	24	Spruce	G	G			
ORCHARD	1646	102+62.95	-65.9	7	Elm	G	G			
ORCHARD	1647	102+96.22	-70.61	7	Elm	G	G			
ORCHARD	1648	103+13.25	-68.5	7	Elm	G	G			
ORCHARD	1649	103+29.87	-82.7	7	Elm	G	G			
ORCHARD	1650	103+45.68	-67.95	5	Blue Spruce	G	G			
ORCHARD	1651	103+58.77	-68.02	5	Blue Spruce	G	G			
ORCHARD	1652	103+70.56	-67.64	3	Blue Spruce	G	G			
ORCHARD	1653	103+84.66	-66.94	3	Blue Spruce	G	G			
ORCHARD	1654	104+04.78	-82.44	7	Green Spruce	G	G			

Left Offsets

Road	Tree Number	Station	Offset	Size (in)	Type	Health	Structure	Comment	Recommended Action	Impact
ORCHARD	1655	104+06.44	-65.97	5	White Oak	G	G			
ORCHARD	1656	104+22.93	-73.14	5	English Oak	G	G			
ORCHARD	1657	104+48.99	-68.98	5	English Oak	G	G			
ORCHARD	x091	119+29.06	-224.17	12	Crabapple	F	F	Multi-Stem		
ORCHARD	x089	119+37.05	-233.05	6	Siberian Elm	F	F			
ORCHARD	x090	119+44.12	-221.41	6	Siberian Elm	F	F			
ORCHARD	x087	119+46.43	-241.77	6	Crabapple	F	F	Multi-Stem		
ORCHARD	x088	119+49.47	-231.64	28	Siberian Elm	G	F			

Circular Plot Tree Survey
Combined Sample Areas
Impacts

Summary/Combined Data - Sample Areas

Sample Areas	Area (Impact) sq ft	Estimate of # of trees impacted	Impact
A (2/3)	46,238	347	Compensatory storage
B (4)	41,585	466	Compensatory storage
C (5/6)	9,612	23	Roadway improvements
Total		**835**	

SAMPLE TREE POPULATION	SAMPLED	% in sample
American Elm	11	4%
Buckthorn	12	4%
Mulberry	60	20%
Boxelder Maple	68	22%
Silver Maple	24	8%
Siberian Elm	42	14%
Hackberry	15	5%
Crabapple	13	4%
Ash	10	3%
Fir	13	4%
Arborvitae	35	12%
TOTAL	**303**	

SAMPLE TREE SIZE		%
<6" DBH	0	0%
6"-15" DBH	135	45%
>15" DBH	168	55%
	303	

Circular Plot Tree Survey

Sample Area A

Sample A - Tree Survey Analysis
Montgomery, IL - US 30
April 2015

	Baseline			Type	Size (in)		Comments
	Sample A(2)			Silver Maple	30		
	Sample A(2)			Silver Maple	30		
	Sample A(2)			Silver Maple	30		
	Sample A(2)			Silver Maple	30		
	Sample A(2)			Silver Maple	30		
	Sample A(2)			Silver Maple	30		
	Sample A(2)			Silver Maple	30		
	Sample A(2)			Silver Maple	30		
	Sample A(2)			Silver Maple	30		
	Sample A(2)			American Elm	30		
	Sample A(2)			American Elm	30		
	Sample A(2)			American Elm	30		
	Sample A(2)			American Elm	30		
	Sample A(2)			American Elm	30		
	Sample A(2)			American Elm	30		
	Sample A(2)			Boxelder Maple	16		
	Sample A(2)			Boxelder Maple	16		
	Sample A(2)			Boxelder Maple	16		
	Sample A(2)			Boxelder Maple	16		
	Sample A(2)			Boxelder Maple	16		
	Sample A(2)			Boxelder Maple	16		
	Sample A(2)			Boxelder Maple	16		
	Sample A(2)			Boxelder Maple	16		
	Sample A(2)			Boxelder Maple	16		
	Sample A(2)			Mulberry	16		
	Sample A(2)			Mulberry	16		
	Sample A(2)			Mulberry	16		
	Sample A(2)			Mulberry	16		
	Sample A(2)			Mulberry	16		
	Sample A(2)			Buckthorn	16		
	Sample A(2)			Boxelder Maple	8		
	Sample A(2)			Boxelder Maple	8		

Sample A - Tree Survey Analysis
Montgomery, IL - US 30
April 2015

	Baseline			Type	Size (in)		Comments
	Sample A(2)			Boxelder Maple	8		
	Sample A(2)			Boxelder Maple	8		
	Sample A(2)			Boxelder Maple	8		
	Sample A(2)			Boxelder Maple	8		
	Sample A(2)			Mulberry	8		
	Sample A(2)			Mulberry	8		
	Sample A(2)			Mulberry	8		
	Sample A(2)			Mulberry	8		
	Sample A(2)			Mulberry	8		
	Sample A(2)			Buckthorn	8		
	Sample A(3)			Silver Maple	30		
	Sample A(3)			Silver Maple	30		
	Sample A(3)			Silver Maple	30		
	Sample A(3)			Silver Maple	30		
	Sample A(3)			Silver Maple	30		
	Sample A(3)			Silver Maple	30		
	Sample A(3)			Silver Maple	30		
	Sample A(3)			Silver Maple	30		
	Sample A(3)			Silver Maple	30		
	Sample A(3)			Silver Maple	30		
	Sample A(3)			Siberian Elm	16		
	Sample A(3)			Siberian Elm	16		
	Sample A(3)			Siberian Elm	16		
	Sample A(3)			Siberian Elm	16		
	Sample A(3)			Siberian Elm	16		
	Sample A(3)			Siberian Elm	16		
	Sample A(3)			Siberian Elm	16		
	Sample A(3)			Siberian Elm	16		
	Sample A(3)			Boxelder Maple	16		
	Sample A(3)			Boxelder Maple	16		
	Sample A(3)			Boxelder Maple	16		
	Sample A(3)			Boxelder Maple	16		

Sample A - Tree Survey Analysis
Montgomery, IL - US 30
April 2015

	Baseline			Type	Size (in)		Comments
	Sample A(3)			Boxelder Maple	16		
	Sample A(3)			Boxelder Maple	16		
	Sample A(3)			Boxelder Maple	16		
	Sample A(3)			Boxelder Maple	16		
	Sample A(3)			Boxelder Maple	16		
	Sample A(3)			Boxelder Maple	16		
	Sample A(3)			Mulberry	16		
	Sample A(3)			Mulberry	16		
	Sample A(3)			Mulberry	16		
	Sample A(3)			Mulberry	16		
	Sample A(3)			Mulberry	16		
	Sample A(3)			Mulberry	16		
	Sample A(3)			Mulberry	16		
	Sample A(3)			Mulberry	16		
	Sample A(3)			Mulberry	16		
	Sample A(3)			Boxelder Maple	8		
	Sample A(3)			Boxelder Maple	8		
	Sample A(3)			Boxelder Maple	8		
	Sample A(3)			Boxelder Maple	8		
	Sample A(3)			Boxelder Maple	8		
	Sample A(3)			Boxelder Maple	8		
	Sample A(3)			Boxelder Maple	8		
	Sample A(3)			Boxelder Maple	8		
	Sample A(3)			Boxelder Maple	8		
	Sample A(3)			Boxelder Maple	8		
	Sample A(3)			Mulberry	8		
	Sample A(3)			Mulberry	8		
	Sample A(3)			Mulberry	8		
	Sample A(3)			Mulberry	8		
	Sample A(3)			Mulberry	8		
	Sample A(3)			Mulberry	8		
	Sample A(3)			Mulberry	8		

Sample A - Tree Survey Analysis
Montgomery, IL - US 30
April 2015

	Baseline			Type	Size (in)		Comments
	Sample A(3)			Mulberry	8		
	Sample A(3)			Mulberry	8		
	Sample A(3)			Mulberry	8		
	Sample A(3)			Mulberry	8		
	Sample A(3)			Siberian Elm	8		
	Sample A(3)			Siberian Elm	8		
	Sample A(3)			Siberian Elm	8		
	Sample A(3)			Siberian Elm	8		
	Sample A(3)			Siberian Elm	8		

SAMPLE AREA A(#2) (100' X 50')	
SAMPLE AREA A(#3) (180' X 50')	
Total # of Trees:	105
Sample Impact Area (SF)	14,000
Total Trees per SF	0.0075
Trees per acre	327

SAMPLE TREE POPULATION	TOTALS
American Elm	6
Buckthorn	2
Mulberry	30
Boxelder Maple	35
Silver Maple	19
Siberian Elm	13
Hackberry	
Crabapple	
Ash	
Fir	
Arborvitae	
TOTAL	**105**

	SAMPLE TREE SIZE
<6" DBH	0
6"-15" DBH	38
>15" DBH	67
	105

Circular Plot Tree Survey

Sample Area B

Sample B - Tree Survey Analysis
Montgomery, IL - US 30
Survey date: April 2015

	Baseline		Type	Size (in)		
	Sample B(4)		Silver Maple	16		
	Sample B(4)		Silver Maple	16		
	Sample B(4)		Silver Maple	16		
	Sample B(4)		Silver Maple	16		
	Sample B(4)		Silver Maple	16		
	Sample B(4)		Hackberry	16		
	Sample B(4)		Hackberry	16		
	Sample B(4)		Hackberry	16		
	Sample B(4)		Hackberry	16		
	Sample B(4)		Hackberry	16		
	Sample B(4)		Siberian Elm	16		
	Sample B(4)		Siberian Elm	16		
	Sample B(4)		Siberian Elm	16		
	Sample B(4)		Siberian Elm	16		
	Sample B(4)		Siberian Elm	16		
	Sample B(4)		American Elm	16		
	Sample B(4)		American Elm	16		
	Sample B(4)		American Elm	16		
	Sample B(4)		American Elm	16		
	Sample B(4)		American Elm	16		
	Sample B(4)		Boxelder Maple	16		
	Sample B(4)		Boxelder Maple	16		
	Sample B(4)		Boxelder Maple	16		
	Sample B(4)		Boxelder Maple	16		
	Sample B(4)		Boxelder Maple	16		
	Sample B(4)		Boxelder Maple	16		
	Sample B(4)		Boxelder Maple	16		
	Sample B(4)		Mulberry	16		
	Sample B(4)		Mulberry	16		
	Sample B(4)		Mulberry	16		
	Sample B(4)		Mulberry	16		

Sample B - Tree Survey Analysis
Montgomery, IL - US 30
Survey date: April 2015

	Baseline		Type	Size (in)		
	Sample B(4)		Mulberry	16		
	Sample B(4)		Mulberry	16		
	Sample B(4)		Mulberry	16		
	Sample B(4)		Siberian Elm	8		
	Sample B(4)		Siberian Elm	8		
	Sample B(4)		Siberian Elm	8		
	Sample B(4)		Siberian Elm	8		
	Sample B(4)		Boxelder Maple	8		
	Sample B(4)		Boxelder Maple	8		
	Sample B(4)		Boxelder Maple	8		
	Sample B(4)		Boxelder Maple	8		
	Sample B(4)		Boxelder Maple	8		
	Sample B(4)		Boxelder Maple	8		
	Sample B(4)		Mulberry	8		
	Sample B(4)		Mulberry	8		
	Sample B(4)		Mulberry	8		
	Sample B(4)		Mulberry	8		
	Sample B(4)		Mulberry	8		
	Sample B(4)		Mulberry	8		
	Sample B(4)		Buckthorn	8		
	Sample B(4)		Buckthorn	8		
	Sample B(4)		Crabapple	8		
	Sample B(4)		Crabapple	8		
	Sample B(4)		Crabapple	8		
	Sample B(4)		Crabapple	8		

SAMPLE AREA (100' X 50')	
Total # of Trees:	56
Potential Impact Area (SF)	5,000
Total Trees per SF	0.0112
Trees per acre	488

SAMPLE TREE POPULATION	TOTALS
American Elm	5
Buckthorn	2
Mulberry	13
Boxelder Maple	13
Silver Maple	5
Siberian Elm	9
Hackberry	5
Crabapple	4
Ash	
Fir	
Arborvitae	
TOTAL	56

	SAMPLE TREE SIZE
<6" DBH	0
6"-15" DBH	22
>15" DBH	34
	56

Circular Plot Tree Survey

Sample Area C

Sample C - Tree Survey Analysis
Montgomery, IL - US 30
April 2015

	Baseline		Type	Size (in)		
	Sample C(5)		Ash	30		
	Sample C(5)		Ash	30		
	Sample C(5)		Ash	30		
	Sample C(5)		Hackberry	30		
	Sample C(5)		Hackberry	30		
	Sample C(5)		Hackberry	30		
	Sample C(5)		Ash	16		
	Sample C(5)		Ash	16		
	Sample C(5)		Ash	16		
	Sample C(5)		Ash	16		
	Sample C(5)		Ash	16		
	Sample C(5)		Hackberry	16		
	Sample C(5)		Hackberry	16		
	Sample C(5)		Hackberry	16		
	Sample C(5)		Hackberry	16		
	Sample C(5)		Hackberry	16		
	Sample C(5)		Arborvitae	16		
	Sample C(5)		Arborvitae	16		
	Sample C(5)		Arborvitae	16		
	Sample C(5)		Arborvitae	16		
	Sample C(5)		Arborvitae	16		
	Sample C(5)		Arborvitae	16		
	Sample C(5)		Arborvitae	16		
	Sample C(5)		Arborvitae	16		
	Sample C(5)		Arborvitae	16		
	Sample C(5)		Arborvitae	16		
	Sample C(5)		Fir	16		
	Sample C(5)		Fir	16		
	Sample C(5)		Fir	16		
	Sample C(5)		Fir	16		
	Sample C(5)		Fir	16		
	Sample C(5)		Siberian Elm	16		
	Sample C(5)		Siberian Elm	16		
	Sample C(5)		Siberian Elm	16		
	Sample C(5)		Siberian Elm	16		
	Sample C(5)		Siberian Elm	16		
	Sample C(5)		Boxelder Maple	16		
	Sample C(5)		Boxelder Maple	16		
	Sample C(5)		Boxelder Maple	16		
	Sample C(5)		Boxelder Maple	16		

Sample C - Tree Survey Analysis
Montgomery, IL - US 30
April 2015

	Baseline		Type	Size (in)		
	Sample C(5)		Boxelder Maple	16		
	Sample C(5)		Mulberry	16		
	Sample C(5)		Mulberry	16		
	Sample C(5)		Mulberry	16		
	Sample C(5)		Mulberry	16		
	Sample C(5)		Mulberry	16		
	Sample C(5)		Buckthorn	16		
	Sample C(5)		Crabapple	16		
	Sample C(5)		Crabapple	16		
	Sample C(5)		Arborvitae	8		
	Sample C(5)		Arborvitae	8		
	Sample C(5)		Arborvitae	8		
	Sample C(5)		Arborvitae	8		
	Sample C(5)		Arborvitae	8		
	Sample C(5)		Arborvitae	8		
	Sample C(5)		Arborvitae	8		
	Sample C(5)		Arborvitae	8		
	Sample C(5)		Arborvitae	8		
	Sample C(5)		Arborvitae	8		
	Sample C(5)		Arborvitae	8		
	Sample C(5)		Arborvitae	8		
	Sample C(5)		Arborvitae	8		
	Sample C(5)		Arborvitae	8		
	Sample C(5)		Arborvitae	8		
	Sample C(5)		Fir	8		
	Sample C(5)		Fir	8		
	Sample C(5)		Fir	8		
	Sample C(5)		Fir	8		
	Sample C(5)		Fir	8		
	Sample C(5)		Siberian Elm	8		
	Sample C(5)		Siberian Elm	8		
	Sample C(5)		Siberian Elm	8		
	Sample C(5)		Siberian Elm	8		
	Sample C(5)		Siberian Elm	8		
	Sample C(5)		Siberian Elm	8		
	Sample C(5)		Siberian Elm	8		
	Sample C(5)		Siberian Elm	8		
	Sample C(5)		Siberian Elm	8		
	Sample C(5)		Siberian Elm	8		
	Sample C(5)		Boxelder Maple	8		

Sample C - Tree Survey Analysis
Montgomery, IL - US 30
April 2015

	Baseline		Type	Size (in)		
	Sample C(5)		Boxelder Maple	8		
	Sample C(5)		Boxelder Maple	8		
	Sample C(5)		Boxelder Maple	8		
	Sample C(5)		Boxelder Maple	8		
	Sample C(5)		Boxelder Maple	8		
	Sample C(5)		Boxelder Maple	8		
	Sample C(5)		Boxelder Maple	8		
	Sample C(5)		Boxelder Maple	8		
	Sample C(5)		Boxelder Maple	8		
	Sample C(5)		Mulberry	8		
	Sample C(5)		Mulberry	8		
	Sample C(5)		Mulberry	8		
	Sample C(5)		Mulberry	8		
	Sample C(5)		Mulberry	8		
	Sample C(5)		Mulberry	8		
	Sample C(5)		Mulberry	8		
	Sample C(5)		Buckthorn	8		
	Sample C(5)		Buckthorn	8		
	Sample C(5)		Buckthorn	8		
	Sample C(5)		Buckthorn	8		
	Sample C(5)		Buckthorn	8		
	Sample C(5)		Crabapple	8		
	Sample C(5)		Crabapple	8		
	Sample C(5)		Crabapple	8		
	Sample C(5)		Crabapple	8		
	Sample C(5)		Crabapple	8		
	Sample C(6)		Ash	30		
	Sample C(6)		Hackberry	30		
	Sample C(6)		Ash	16		
	Sample C(6)		Hackberry	16		
	Sample C(6)		Arborvitae	16		
	Sample C(6)		Arborvitae	16		
	Sample C(6)		Arborvitae	16		
	Sample C(6)		Arborvitae	16		
	Sample C(6)		Fir	16		
	Sample C(6)		Siberian Elm	16		
	Sample C(6)		Siberian Elm	16		
	Sample C(6)		Boxelder Maple	16		
	Sample C(6)		Boxelder Maple	16		
	Sample C(6)		Boxelder Maple	16		

Sample C - Tree Survey Analysis
Montgomery, IL - US 30
April 2015

	Baseline		Type	Size (in)		
	Sample C(6)		Mulberry	16		
	Sample C(6)		Mulberry	16		
	Sample C(6)		Buckthorn	16		
	Sample C(6)		Crabapple	16		
	Sample C(6)		Arborvitae	8		
	Sample C(6)		Arborvitae	8		
	Sample C(6)		Arborvitae	8		
	Sample C(6)		Arborvitae	8		
	Sample C(6)		Arborvitae	8		
	Sample C(6)		Arborvitae	8		
	Sample C(6)		Fir	8		
	Sample C(6)		Fir	8		
	Sample C(6)		Boxelder Maple	8		
	Sample C(6)		Boxelder Maple	8		
	Sample C(6)		Siberian Elm	8		
	Sample C(6)		Siberian Elm	8		
	Sample C(6)		Siberian Elm	8		
	Sample C(6)		Mulberry	8		
	Sample C(6)		Mulberry	8		
	Sample C(6)		Mulberry	8		
	Sample C(6)		Buckthorn	8		
	Sample C(6)		Crabapple	8		

SAMPLE AREA C(#5) (1000' X 30')	
SAMPLE AREA C(#6) (1000' X 30')	
Total # of Trees:	142
Potential Impact Area (SF)	60,000
Total # of Trees per SF	0.0024
Trees per Acre	103

SAMPLE TREE POPULATION	TOTALS
American Elm	0
Buckthorn	8
Mulberry	17
Boxelder Maple	20
Silver Maple	
Siberian Elm	20
Hackberry	10
Crabapple	9
Ash	10
Fir	13
Arborvitae	35
TOTAL	142

	SAMPLE TREE SIZE
<6" DBH	0
6"-15" DBH	75
>15" DBH	67
	142

S-9

Wetland Delineation Reports

Wetland Delineation Report

Project Site:

US 30 - Baseline Road (FAP 349), IL 47 to Albright Road
Kane and Kendall Counties, Illinois

IDOT Sequence Number: 17659

Prepared by:
Scott Wiesbrook, Paul Marcum, Dennis Skultety, Benjamin Beas, and Brian Wilm

Wetland Science Program
Illinois Natural History Survey
1816 South Oak Street
Champaign, Illinois, 61820

July 2013

ILLINOIS NATURAL HISTORY SURVEY
PRAIRIE RESEARCH INSTITUTE

ILLINOIS
UNIVERSITY OF ILLINOIS AT URBANA-CHAMPAIGN

Project Summary

A wetland survey was conducted for proposed work on US 30 - Baseline Road (FAP 349), IL 47 to Albright Road in Kane and Kendall Counties, Illinois. All potential wetlands within the specified project area were examined. Ten sites met the three criteria of a wetland established in the *Corps of Engineers Wetlands Delineation Manual* (Environmental Laboratory 1987) and the *Regional Supplement to the Corps of Engineers Wetland Delineation Manual: Midwest Region (Version 2.0)* [U.S. Army Corps of Engineers (USACE) 2010] and were, therefore, determined to be wetlands. Summary information regarding the wetland determination sites is presented in the wetland project report. Wetland determination forms are found in Appendix A and wetland plant species lists are included in Appendix B. Wetland boundaries were recorded using a Trimble Global Positioning System. The spatial data have been digitally uploaded to the Illinois Site Assessment Tracking System (http://frostycap.isgs.uiuc.edu/idot_extranet). Locations of determination sites were overlaid on a digital orthophoto quadrangle (DOQ) using ArcGIS; the resulting figure is included in Appendix C. Additional maps and figures are also included in Appendix C.

Signed: Scott M Wiesbrook Date: July 29, 2013

Scott M. Wiesbrook
Wetland Science Program
Assistant Project Leader for Soils

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Cover Photo: Facing south overlooking wetland site 11.

US 30 - Baseline Road (FAP 349), IL 47 to Albright Road Kane and Kendall Counties, Illinois

Introduction

A wetland survey was conducted between June 25 and July 17, 2013 for the proposed work on US 30 - Baseline Road (FAP 349), IL 47 to Albright Road in Kane and Kendall Counties, Illinois. Construction work is to include potential widening of US 30 to five lanes.

Methods

All potential wetlands within the specified study area were examined. Characteristics of vegetation, soils, hydrology, and topography were evaluated during field investigation and on-site wetland determination. Locations of observation points for wetland determinations were selected based on plant community borders and topographic changes. The following sources were examined while surveying the project corridor to determine wetland locations and boundaries: aerial photographs; U.S. Geological Survey topographic maps (Aurora South and Yorkville 7.5 minute quadrangles); National Wetlands Inventory (NWI) maps (Aurora South and Yorkville 7.5 minute quadrangles) (U.S. Fish and Wildlife Service); Kane County Advanced Identification (ADID) wetland maps (Northeastern Illinois Planning Commission et al. 2004), Illinois Wetlands Inventory (U.S. Fish and Wildlife Service, Illinois Department of Natural Resources, Illinois Natural History Survey 1996); the *Corps of Engineers Wetlands Delineation Manual* (Environmental Laboratory 1987); the *Regional Supplement to the Corps of Engineers Wetland Delineation Manual: Midwest Region (Version 2.0)* (USACE 2010); the USDA-NRCS *Official Series Descriptions*; and the USDA-NRCS *Web Soil Survey*. Positional inaccuracies are known to occur with downloaded sources of digital data listed above. As presented on maps and figures in this report, data can be shifted from their actual position when compared to modern aerial photography.

Wetland determinations were conducted using definitions and guidelines established in the *Corps of Engineers Wetlands Delineation Manual* (Environmental Laboratory 1987) and the *Regional Supplement to the Corps of Engineers Wetland Delineation Manual: Midwest Region (Version 2.0)* (USACE 2010). Data from these determinations were recorded on U.S. Army Corps of Engineers' Wetland Determination Data Forms – Midwest Region (Appendix A); a data form was completed for each wetland sampling point. All potential wetlands, including all areas mapped as wetlands by the NWI, were described using at least one sampling point. Results of these determinations are summarized in the following text. Adjacent upland areas were also investigated; forms were also completed for these areas. Comprehensive plant species lists were compiled for each wetland site and are presented in Appendix B.

All areas of agricultural land use within the project corridor were delineated following the NRCS method of wetland determination (for more information, see: USDA-NRCS 1998). Briefly, this method involves examining 5 years of aerial photography taken during the early summer for evidence of saturation or inundation (wetland signature). The years used are determined to be

5 years during which precipitation was closest to the long term precipitation averages. In addition, when possible, the NRCS wetland maps were consulted to find areas previously delineated by the NRCS as wetland. Any area which showed a wetland signature in three years out of five, or in two years out of five if the site was also mapped as wetland by the NWI, was investigated by a site visit. If hydric soils were present at the site, the site was determined to be wetland. The site was then delineated from the aerial photography based on an average of the years during which a wetland signature was evident.

Wetland and water boundaries were recorded using a Trimble Global Positioning System (either model Pathfinder Pro XR or Pathfinder Pro XRS), with a presumed accuracy of +/- 0.5 m under optimal field conditions. Occasionally, conditions prohibit field-delineation of boundaries using GPS equipment, and these boundaries are digitized in the office using aerial photography. Typically this is done when one of three issues prevents field personnel from conducting a normal field delineation:

- Site cannot be accessed due to fence, lack of permission, hostile landowner, or other reason.
- Current conditions make delineation impossible (for example, delineating a stream or other water during a major flood when boundaries cannot be seen in the field).
- Current conditions make field delineation dangerous to our personnel. This often occurs with very steep-sided banks on creeks that have a great deal of vegetation obscuring the drop-off.

When a site is delineated using aerial photography, the site boundary must be readily visible from the aerial photo, and not obscured by overhanging vegetation or other features on the photo.

Spatial data were digitally uploaded to the Illinois Site Assessment Tracking System (http://frostycap.isgs.uiuc.edu/idot_extranet). Locations of determination sites were overlaid on a digital orthophoto quadrangle (DOQ) and approximate area was determined for each wetland site using ArcGIS 10.1 software (ESRI 2012). Resulting areas are calculated in acres, reported to two decimal places. Area of streams and ditches is given for the open channel and omits any portion enclosed in a pipe or culvert. Length of streams and ditches is given for the entire length within the project corridor; this includes pipes and culverts where visual observation can locate both ends. Site location, with respect to the nearest road, was measured from the edge of the pavement and is reported to the nearest foot.

Each native plant species was assigned a “coefficient of conservatism” (C) (Swink and Wilhelm 1994), a subjective rating of species fidelity to undegraded natural communities, ranging from zero to ten. Conservative species - those more likely to be found in “pristine” natural areas - were assigned high numbers, whereas non-conservative species - those that occur in anthropogenically disturbed areas - were given lower numbers. Non-native species and those not identifiable to species level were not assigned a rating. The Floristic Quality Index (FQI) is computed as FQI = (mean C) X ($\sqrt{N}$), where mean C is the mean coefficient of conservatism for all native plant species at a site and N is the total number of native plant species at the site. In very general terms, higher FQI values for plant communities indicate more similarity to

"pristine" natural areas, as compared to those communities with lower FQI values. Botanical nomenclature follows *Plants of the Chicago Region* (*ibid*.), while wetland indicator status for each species follows *North American Digital Flora: National Wetland Plant List, version 2.4.0* (Lichvar and Kartesz 2009).

Wetland Site Summaries

Site Number: 1
Community type: **Farmed wetland**
National Wetlands Inventory code: **U (upland)**
Site location: **Approximately 52 feet south of US 30**
Hydrophytic Vegetation? **Yes** Hydric Soils? **Yes** Wetland Hydrology? **Yes**
Is this site a wetland? **Yes**
Percentage of crop photos with evident wetland signature: **80 percent**
Percentage of crop photos with evident wetland signature (including NWI): **67 percent**
Area of site occurring within the project corridor: **0.67 ac**
Total site area: **0.71 ac**
Is this site an Advanced Identification (ADID) High Habitat Value wetland? **No**
Is this site an Advanced Identification (ADID) High Functional Value wetland? **No**
Is this site a High Quality Aquatic Resource (HQAR) (USACE-CD 2012)? **No**
Waters type (USACE and USEPA 2007): **Wetlands adjacent to but not directly abutting RPWs that flow directly or indirectly into Traditional Navigable Waters (RPWWN)**
HGM type: **Depressional**
Additional remarks: **This site is an active cropland. The present situation is considered atypical because this site lacks a natural plant community. In our opinion, this site would support hydrophytic vegetation under unmanaged conditions.**

Site Number: 2
Community type: **Non-native grassland**
National Wetlands Inventory code: **PEMAf (farmed, temporarily flooded, emergent, palustrine wetland)**
Site location: **Sampling point 2A approximately 93 feet south of US 30**
Hydrophytic Vegetation? **No** Hydric Soils? **Yes** Wetland Hydrology? **No**
Is this site a wetland? **No**
Is this site an Advanced Identification (ADID) High Habitat Value wetland? **No**
Is this site an Advanced Identification (ADID) High Functional Value wetland? **No**
Is this site a High Quality Aquatic Resource (HQAR) (USACE-CD 2012)? **No**

Site Number: 3
Community type: **Farmed wetland**
National Wetlands Inventory code: **PEMAf (farmed, temporarily flooded, emergent, palustrine wetland)**
Site location: **Approximately 40 feet north of US 30**
Hydrophytic Vegetation? **No*** Hydric Soils? **Yes** Wetland Hydrology? **Yes**

Is this site a wetland? **Yes**
Percentage of crop photos with evident wetland signature: **60 percent**
Percentage of crop photos with evident wetland signature (including NWI): **67 percent**
Area of site occurring within the project corridor: **1.35 ac**
Total site area: **1.35 ac**
Is this site an Advanced Identification (ADID) High Habitat Value wetland? **No**
Is this site an Advanced Identification (ADID) High Functional Value wetland? **No**
Is this site a High Quality Aquatic Resource (HQAR) (USACE-CD 2012)? **No**
Waters type (USACE and USEPA 2007): **Isolated interstate or intrastate waters including isolated wetlands (ISOLATE)**
HGM type: **Depressional**
Additional remarks: ***This site is an active cropland. The present situation is considered atypical because this site lacks a natural plant community (no vegetation was present). In our opinion, this site would support hydrophytic vegetation under unmanaged conditions.**

Site Number: 4
Community type: **Wet meadow**
National Wetlands Inventory code: **PEMAf (farmed, temporarily flooded, emergent, palustrine wetland)**
Site location: **Approximately 19 feet north of US 30**
Hydrophytic Vegetation? **Yes** Hydric Soils? **Yes** Wetland Hydrology? **Yes**
Is this site a wetland? **Yes**
Area of site occurring within the project corridor: **0.53 ac**
Total site area: **0.53 ac**
Is this site an Advanced Identification (ADID) High Habitat Value wetland? **No**
Is this site an Advanced Identification (ADID) High Functional Value wetland? **No**
Is this site a High Quality Aquatic Resource (HQAR) (USACE-CD 2012)? **No**
Waters type (USACE and USEPA 2007): **Isolated interstate or intrastate waters including isolated wetlands (ISOLATE)**
HGM type: **Depressional**
Mean Coefficient of Conservatism (mean C): **1.0** Floristic Quality Index (FQI): **3.6**

Site Number: 5
Community type: **Wetland pond**
National Wetlands Inventory code: **U (upland)**
Site location: **Approximately 106 feet north of US 30**
Hydrophytic Vegetation? **Yes** Hydric Soils? **Yes** Wetland Hydrology? **Yes**
Is this site a wetland? **Yes**
Area of site occurring within the project corridor: **1.80 ac**
Total site area: **1.80 ac**
Is this site an Advanced Identification (ADID) High Habitat Value wetland? **No**
Is this site an Advanced Identification (ADID) High Functional Value wetland? **No**
Is this site a High Quality Aquatic Resource (HQAR) (USACE-CD 2012)? **No**

Waters type (USACE and USEPA 2007): **Isolated interstate or intrastate waters including isolated wetlands (ISOLATE)**
HGM type: **Depressional**
Mean Coefficient of Conservatism (mean C): **3.4** Floristic Quality Index (FQI): **17.7**

Site Number: 6
Community type: **Wet meadow**
National Wetlands Inventory code: **PEMAf (farmed, temporarily flooded, emergent, palustrine wetland) and PEMC (seasonally flooded, emergent, palustrine wetland)**
Site location: **Approximately 50 feet north and 26 feet south of US 30**
Hydrophytic Vegetation? **Yes** Hydric Soils? **Yes** Wetland Hydrology? **Yes**
Is this site a wetland? **Yes**
Area of site occurring within the project corridor: **2.48 ac**
Total site area: **Undetermined**
Is this site an Advanced Identification (ADID) High Habitat Value wetland? **Yes**
Is this site an Advanced Identification (ADID) High Functional Value wetland? **No**
Is this site a High Quality Aquatic Resource (HQAR) (USACE-CD 2012)? **Yes**
Rationale: **A portion of this site is an Advanced Identification (ADID) Site (Site 3196).**
Waters type (USACE and USEPA 2007): **Wetlands directly abutting RPWs that flow directly or indirectly into Traditional Navigable Waters (RPWWD)**
HGM type: **Riverine**
Mean Coefficient of Conservatism (mean C): **2.0** Floristic Quality Index (FQI): **10.4**

Site Number: 7
Community type: **Marsh**
National Wetlands Inventory code: **U (upland)**
Site location: **Approximately 64 feet southeast of Baseline Road**
Hydrophytic Vegetation? **Yes** Hydric Soils? **Yes** Wetland Hydrology? **Yes**
Is this site a wetland? **Yes**
Area of site occurring within the project corridor: **0.20 ac**
Total site area: **Undetermined**
Is this site an Advanced Identification (ADID) High Habitat Value wetland? **No**
Is this site an Advanced Identification (ADID) High Functional Value wetland? **No**
Is this site a High Quality Aquatic Resource (HQAR) (USACE-CD 2012)? **No**
Waters type (USACE and USEPA 2007): **Isolated interstate or intrastate waters including isolated wetlands (ISOLATE)**
HGM type: **Depressional**
Mean Coefficient of Conservatism (mean C): **2.3** Floristic Quality Index (FQI): **9.3**

Site Number: 8
Community type: **Forested wetland**
National Wetlands Inventory code: **U (upland)**
Site location: **Approximately 80 feet north of US 30**
Hydrophytic Vegetation? **Yes** Hydric Soils? **Yes** Wetland Hydrology? **Yes**

Is this site a wetland? **Yes**
Area of site occurring within the project corridor: **0.58 ac**
Total site area: **0.88 ac**
Is this site an Advanced Identification (ADID) High Habitat Value wetland? **Yes**
Is this site an Advanced Identification (ADID) High Functional Value wetland? **No**
Is this site a High Quality Aquatic Resource (HQAR) (USACE-CD 2012)? **Yes**
Rationale: **This site is an Advanced Identification (ADID) Site (Site 3423).**
Waters type (USACE and USEPA 2007): **Isolated interstate or intrastate waters including isolated wetlands (ISOLATE)**
HGM type: **Depressional**
Mean Coefficient of Conservatism (mean C): **2.1** Floristic Quality Index (FQI): **7.8**

Site Number: 9
Community type: **Deepwater aquatic habitat**
National Wetlands Inventory code: **PUBGx (excavated, intermittently exposed, unconsolidated bottom, palustrine wetland)**
Site location: **Sampling point 9A approximately 125 feet north of US 30**
Hydrophytic Vegetation? **No** Hydric Soils? **No** Wetland Hydrology? **No**
Is this site a wetland? **No**
Is this site an Advanced Identification (ADID) High Habitat Value wetland? **No**
Is this site an Advanced Identification (ADID) High Functional Value wetland? **No**
Is this site a High Quality Aquatic Resource (HQAR) (USACE-CD 2012)? **No**
Waters type (USACE and USEPA 2007): **Isolated interstate or intrastate waters including isolated wetlands (ISOLATE)**

Site Number: 10
Community type: **Deepwater aquatic habitat**
National Wetlands Inventory code: **PUBGx (excavated, intermittently exposed, unconsolidated bottom, palustrine wetland)**
Site location: **Sampling point 10A approximately 148 feet north of US 30**
Hydrophytic Vegetation? **No** Hydric Soils? **No** Wetland Hydrology? **No**
Is this site a wetland? **No**
Is this site an Advanced Identification (ADID) High Habitat Value wetland? **No**
Is this site an Advanced Identification (ADID) High Functional Value wetland? **No**
Is this site a High Quality Aquatic Resource (HQAR) (USACE-CD 2012)? **No**
Waters type (USACE and USEPA 2007): **Isolated interstate or intrastate waters including isolated wetlands (ISOLATE)**

Site Number: 11
Community type: **Forested wetland**
National Wetlands Inventory code: **PSS1C (seasonally flooded, broad-leaved deciduous, scrub-shrub, palustrine wetland), PFO1C (seasonally flooded, broad-leaved deciduous, forested, palustrine wetland), PEMF (semipermanently flooded, emergent, palustrine wetland)**
Site location: **Approximately 338 feet north of US 30**

Hydrophytic Vegetation? **Yes** Hydric Soils? **Yes** Wetland Hydrology? **Yes**
Is this site a wetland? **Yes**
Area of site occurring within the project corridor: **0.45 ac**
Total site area: **Undetermined**
Is this site an Advanced Identification (ADID) High Habitat Value wetland? **No**
Is this site an Advanced Identification (ADID) High Functional Value wetland? **No**
Is this site a High Quality Aquatic Resource (HQAR) (USACE-CD 2012)? **No**
Waters type (USACE and USEPA 2007): **Isolated interstate or intrastate waters including isolated wetlands (ISOLATE)**
HGM type: **Depressional**
Mean Coefficient of Conservatism (mean C): **2.4** Floristic Quality Index (FQI): **13.1**

Site Number: 12
Community type: **Marsh/Wet meadow**
National Wetlands Inventory code: **U (upland)**
Site location: **Approximately 135 feet north of US 30**
Hydrophytic Vegetation? **Yes** Hydric Soils? **Yes** Wetland Hydrology? **Yes**
Is this site a wetland? **Yes**
Area of site occurring within the project corridor: **1.81 ac**
Total site area: **Undetermined**
Is this site an Advanced Identification (ADID) High Habitat Value wetland? **No**
Is this site an Advanced Identification (ADID) High Functional Value wetland? **No**
Is this site a High Quality Aquatic Resource (HQAR) (USACE-CD 2012)? **No**
Waters type (USACE and USEPA 2007): **Isolated interstate or intrastate waters including isolated wetlands (ISOLATE)**
HGM type: **Depressional**
Mean Coefficient of Conservatism (mean C): **2.6** Floristic Quality Index (FQI): **15.7**

Site Number: 13
Community type: **Wet meadow**
National Wetlands Inventory code: **U (upland)**
Site location: **Approximately 32 feet north of US 30**
Hydrophytic Vegetation? **Yes** Hydric Soils? **Yes** Wetland Hydrology? **Yes**
Is this site a wetland? **Yes**
Area of site occurring within the project corridor: **0.33 ac**
Total site area: **0.33 ac**
Is this site an Advanced Identification (ADID) High Habitat Value wetland? **No**
Is this site an Advanced Identification (ADID) High Functional Value wetland? **No**
Is this site a High Quality Aquatic Resource (HQAR) (USACE-CD 2012)? **No**
Waters type (USACE and USEPA 2007): **Isolated interstate or intrastate waters including isolated wetlands (ISOLATE)**
HGM type: **Depressional**
Mean Coefficient of Conservatism (mean C): **2.3** Floristic Quality Index (FQI): **8.3**

Wetland Site Summary Table

Site no.	NWI code	Community type	Area (ac.)[1]	>50%[2]	FQI	Mean C	ADID[3]	HQAR[4]	Waters type
1	U	Farmed wetland	0.67	Yes	N/A	N/A	None	No	RPWWN
3	PEMAf	Farmed wetland	1.35	Yes	N/A	N/A	None	No	ISOLATE
4	PEMAf	Wet meadow	0.53	Yes	3.6	1.0	None	No	ISOLATE
5	U	Wetland pond	1.80	Yes	17.7	3.4	None	No	ISOLATE
6	PEMAf	Wet meadow	2.48	Yes	10.4	2.0	HHV	Yes	RPWWD
7	U	Marsh	0.20	No	9.3	2.3	None	No	ISOLATE
8	U	Forested wetland	0.58	Yes	7.8	2.1	HHV	Yes	ISOLATE
11	PSS1C, PFO1C, PEMF	Forested wetland	0.45	No	13.1	2.4	None	No	ISOLATE
12	U	Marsh/Wet meadow	1.81	Yes	15.7	2.6	None	No	ISOLATE
13	U	Wet meadow	0.33	Yes	8.3	2.3	None	No	ISOLATE

[1] Area within the ESR project limits. [2] In our best professional judgment is more than 50% of the total site area within the ESR project limits? [3] Is this site an Advanced Identification High Habitat Value wetland (HHV) or a High Functional Value wetland (HFV)? [4] Is this site a High Quality Aquatic Resource?

Waters of the United States

Site Number: W1
Site Name: **Detention pond**
Site Location: **Approximately 106 feet north of US 30.**
Latitude: **41.72297** Longitude: **- 88.39586**
Community type: **Deepwater Aquatic Habitat**
National Wetlands Inventory code: **U (upland)**
Area of site occurring within the project corridor: **1.16 ac**
Waters type (USACE 2007): **ISOLATE (Isolated interstate or intrastate waters including isolated wetlands)**
USGS 8-Digit Hydrologic Unit Code (HUC): **07120007 (Lower Fox River)**
Is the stream or body of water permanent? **Yes**
Is this site a High Quality Aquatic Resource (HQAR) (USACE-CD 2012)? **No**
Additional Remarks: **This pond was excavated within the past year.**

Site Number: W2
Site Name: **Blackberry Creek**
Site Location: **Crosses US 30 approximately 211 feet west of Orchard Road.**
Latitude: **41.72256** Longitude: **- 88.37635**
Community type: **Stream**

National Wetlands Inventory code: **R2UBH (permanently flooded, unconsolidated bottom, lower perennial, riverine wetland)**
Area of site occurring within the project corridor: **0.96 ac**
Linear feet: **761 ft**
Waters type (USACE 2007): **RPW (Relatively Permanent Waters that flow directly or indirectly into Traditional Navigable Waters)**
USGS 8-Digit Hydrologic Unit Code (HUC): **07120007 (Lower Fox River)**
Watershed area: **57.6 mi^2 (USGS 2013)**
Riffles observed? **No** Pools observed? **No**
Mussel shell material observed? **Yes**
Is the stream or body of water permanent? **Yes**
Is this site a High Quality Aquatic Resource (HQAR) (USACE-CD 2012)? **Yes**
Rationale: **This stream is mapped as Biologically Significant in the Illinois Biological Stream Characterization Study (IDNR 2008).**
Is the stream identified by the IDNR (2008) as a biologically significant stream? **Yes**
Stream Integrity Rating: **B** Stream Diversity Rating: **B**

Site Number: W3
Site Name: **Unnamed tributary to Blackberry Creek**
Site Location: **Approximately 81 feet north of US 30.**
Latitude: **41.72312** Longitude: **- 88.37584**
Community type: **Stream/ditch**
National Wetlands Inventory code: **U (upland)**
Area of site occurring within the project corridor: **0.02 ac**
Linear feet: **339 ft**
Waters type (USACE 2007): **NRPW (Non-RPWs that flow directly or indirectly into Traditional Navigable Waters)**
USGS 8-Digit Hydrologic Unit Code (HUC): **07120007 (Lower Fox River)**
Watershed area: **<1 mi^2**
Riffles observed? **No** Pools observed? **No**
Mussel shell material observed? **No**
Is the stream or body of water permanent? **No**
Is this site a High Quality Aquatic Resource (HQAR) (USACE-CD 2012)? **No**
Is the stream identified by the IDNR (2008) as a biologically significant stream? **No**
Stream Integrity Rating: **Not Rated** Stream Diversity Rating: **Not Rated**

Site Number: W4
Site Name: **Pond**
Site Location: **Approximately 73 feet north of US 30.**
Latitude: **41.72595** Longitude: **- 88.36232**
Community type: **Deepwater Aquatic Habitat**
National Wetlands Inventory code: **PUBGx (excavated, intermittently exposed, unconsolidated bottom, palustrine wetland)**
Area of site occurring within the project corridor: **4.88 ac**

Waters type (USACE 2007): **ISOLATE (Isolated interstate or intrastate waters including isolated wetlands)**
USGS 8-Digit Hydrologic Unit Code (HUC): **07120007 (Lower Fox River)**
Is the stream or body of water permanent? **Yes**
Is this site a High Quality Aquatic Resource (HQAR) (USACE-CD 2012)? **No**

Site Number: W5
Site Name: **Pond**
Site Location: **Approximately 36 feet north of US 30.**
Latitude: **41.72632** Longitude: **- 88.35957**
Community type: **Deepwater Aquatic Habitat**
National Wetlands Inventory code: **PUBGx (excavated, intermittently exposed, unconsolidated bottom, palustrine wetland)**
Area of site occurring within the project corridor: **0.98 ac**
Waters type (USACE 2007): **ISOLATE (Isolated interstate or intrastate waters including isolated wetlands)**
USGS 8-Digit Hydrologic Unit Code (HUC): **07120007 (Lower Fox River)**
Is the stream or body of water permanent? **Yes**
Is this site a High Quality Aquatic Resource (HQAR) (USACE-CD 2012)? **No**

Threatened/Endangered Species and Natural Communities of Special Interest
No species listed as threatened or endangered federally or in Illinois were found during our wetland survey within the project corridor. Also, no natural communities of special interest were noted.

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APPENDIX A

Wetland Determination Forms

WETLAND DETERMINATION DATA FORM - Midwest Region

Project/Site: US 30 (FAP 349) (Baseline Road) City/County: Kendall Sampling Date 7/9/2013

Applicant/Owner: IDOT District 1 State: IL Sampling Point 1A

Investigator(s): Wiesbrook and Marcum Section, Township, Range: Sec 4, T37N, R7E

Landform (hillslope, terrace, etc.): Depression Local relief (concave, convex, none): Concave

Slope (%): <1 Lat: 41.72159 Long: -88.44156 Datum: NAD 83

Soil Map Unit Name: Drummer SICL, 0-2% slopes NWI classification: U

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

Are Vegetation Yes , Soil No , or Hydrology No significantly disturbed? Are "Normal Circumstances" present? No

Are Vegetation No , Soil No , or Hydrology No 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	**Is the Sampled Area within a Wetland?**	**Yes**
Hydric Soil Present?	Yes		
Wetland Hydrology Present?	Yes		

Remarks: Community type is farmed wetland.

VEGETATION - Use scientific names of plants.

Tree Stratum (Plot size: 30 ft radius)	Absolute % Cover	Dominant Species?	Indicator Status
1.			
2.			
3.			
4.			
5.			
	0	= Total Cover	

Sapling/Shrub Stratum (Plot size: 15 ft radius)			
1.			
2.			
3.			
4.			
5.			
	0	= Total Cover	

Herb Stratum (Plot size: 5 ft radius)			
1. *Zea mays*	80	Yes	UPL
2. *Hibiscus trionum*	1	No	UPL
3.			
4.			
5.			
6.			
7.			
8.			
9.			
10.			
	81	= Total Cover	

Woody Vine Stratum (Plot size: 30 ft radius)		
1.		
2.		
	0	= Total Cover

Dominance Test worksheet:

Number of Dominant Species That are OBL, FACW, or 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	0	x 4 =	0
UPL species	81	x 5 =	405
Column Totals	81 (A)		405 (B)
Prevalence Index =B/A =			5.00

Hydrophytic Vegetation Indicators

- ☐ 1-Rapid Test for Hydrophytic Vegetation
- ☐ 2-Dominance Test is >50%
- ☐ 3-Prevalence Index is < or =3.0[1]
- ☐ 4-Morphological Adaptations[1] (Provide supporting data in Remarks or on a 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**

Remarks: (Include photo numbers here or on a separate sheet.)

This site is an active cropland. The present situation is considered atypical because this site lacks a natural plant community. In our opinion, this site would support hydrophytic vegetation under unmanaged conditions.

SOIL

Sampling Point: 1A

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 Features %	Type[1]	Loc[2]	Texture	Remarks
0-13+	10YR 2/1	98	10YR 4/4	2	C	M	SICL	

[1] Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. [2] Location: PL=Pore Lining, M=Matrix

Hydric Soil Indicators:

- ☐ Histosol (A1)
- ☐ Histic Epipedon (A2)
- ☐ Black Histic (A3)
- ☐ Hydrogen Sulfide (A4)
- ☐ Stratified Layers (A5)
- ☐ 2 cm Muck (A10)
- ☐ Depleted Below Dark Surface (A11)
- ☐ Thick Dark Surface (A12)
- ☐ Sandy Mucky Mineral (S1)
- ☐ 5 cm Mucky Peat or Peat (S3)
- ☐ 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)

Indicators for Problematic Hydric Soils[3]:

- ☐ Coast Prairie Redox (A16)
- ☐ Dark Surface (S7)
- ☐ Iron-Manganese Masses (F12)
- ☐ Very Shallow Dark Surface (TF12)
- ☐ Other (Explain in Remarks)

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

Restrictive Layer (if observed):

Type: _____

Depth (inches): _____

Hydric Soil Present? **Yes**

Remarks:

HYDROLOGY

Wetland Hydrology Indicators:

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

- ☐ Surface Water (A1)
- ☐ High Water Table (A2)
- ☐ Saturation (A3)
- ☐ Water Marks (B1)
- ☐ Sediment Deposits (B2)
- ☐ Drift Deposits (B3)
- ☐ Algal Mat or Crust (B4)
- ☐ Iron Deposits (B5)
- ☐ Inundation Visible on Aerial Imagery (B7)
- ☐ Sparsely Vegetated Concave Surface (B8)
- ☐ Water-Stained Leaves (B9)
- ☐ Aquatic Fauna (B13)
- ☐ True Aquatic Plants (B14)
- ☐ Hydrogen Sulfide Odor (C1)
- ☐ Oxidized Rhizospheres on Living Roots (C3)
- ☐ Presence of Reduced Iron (C4)
- ☐ Recent Iron Reduction in Tilled Soils (C6)
- ☐ Thin Muck Surface (C7)
- ☐ Gauge or Well Data (D9)
- ☑ Other (Explain in Remarks)

Secondary Indicators (minimum of two is required)

- ☐ Surface Soil Cracks (B6)
- ☐ Drainage Patterns (B10)
- ☐ Dry-Season Water Table (C2)
- ☐ Crayfish Burrows (C8)
- ☐ Saturation Visible on Aerial Imagery (C9)
- ☑ Stunted or Stressed Plants (D1)
- ☑ Geomorphic Position (D2)
- ☐ FAC-Neutral Test (D5)

Field Observations:

Surface Water Present? No Depth (inches): _____

Water Table Present? No Depth (inches): _____

Saturation Present? (includes capillary fringe) No Depth (inches): _____

Wetland Hydrology Present? **Yes**

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

Percent of FSA crop photos with wetland signature evident: 80% Is the site coded as wetland by the NWI?: No

Remarks: Combined crop photo/NWI percentage: 67% Does the site possess wetland hydrology?: Yes Rationale: Wetland signature is evident in the majority of years examined.

WETLAND DETERMINATION DATA FORM - Midwest Region

Project/Site: US 30 (FAP 349) (Baseline Road) City/County: Kendall Sampling Date 6/25/2013

Applicant/Owner: IDOT District 1 State: IL Sampling Point 2A

Investigator(s): Wiesbrook, Marcum, and Beas Section, Township, Range: Sec 2, T37N, R7E

Landform (hillslope, terrace, etc.): Glacial till plain Local relief (concave, convex, none): None

Slope (%): <1 Lat: 41.72204 Long: -88.39901 Datum: NAD 83

Soil Map Unit Name: NRCS mapped as Peotone; revised to Aquent NWI classification: PEMAf

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

Are Vegetation No, Soil No, or Hydrology No significantly disturbed? Are "Normal Circumstances" present? Yes

Are Vegetation No, Soil No, or Hydrology No 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?	No	**Is the Sampled Area within a Wetland?** **No**
Hydric Soil Present?	Yes	
Wetland Hydrology Present?	No	

Remarks: Community type is non-native grassland.

VEGETATION - Use scientific names of plants.

Tree Stratum (Plot size: 30 ft radius)	Absolute % Cover	Dominant Species?	Indicator Status
1.			
2.			
3.			
4.			
5.			
	0	= Total Cover	

Sapling/Shrub Stratum (Plot size: 15 ft radius)			
1.			
2.			
3.			
4.			
5.			
	0	= Total Cover	

Herb Stratum (Plot size: 5 ft radius)			
1. *Festuca elatior*	60	Yes	FACU
2. *Poa pratensis*	40	Yes	FAC
3. *Taraxacum officinale*	2	No	FACU
4. *Trifolium pratense*	2	No	FACU
5. *Daucus carota*	1	No	UPL
6. *Rhamnus cathartica*	1	No	FAC
7. *Solidago canadensis*	1	No	FACU
8.			
9.			
10.			
	107	= Total Cover	

Woody Vine Stratum (Plot size: 30 ft radius)			
1.			
2.			
	0	= Total Cover	

Dominance Test worksheet:

Number of Dominant Species That are OBL, FACW, or 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		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

- ☐ 1-Rapid Test for Hydrophytic Vegetation
- ☐ 2-Dominance Test is >50%
- ☐ 3-Prevalence Index is < or =3.0[1]
- ☐ 4-Morphological Adaptations[1] (Provide supporting data in Remarks or on a 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? **No**

Remarks: (Include photo numbers here or on a separate sheet.)

SOIL

Sampling Point: 2A

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
0-8	10YR 3/1	100					SICL	
8-14+	2.5Y 4/1	95	2.5Y 4/6	5	C	M	SICL	

[1] Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. [2] Location: PL=Pore Lining, M=Matrix

Hydric Soil Indicators:

- ☐ Histosol (A1)
- ☐ Histic Epipedon (A2)
- ☐ Black Histic (A3)
- ☐ Hydrogen Sulfide (A4)
- ☐ Stratified Layers (A5)
- ☐ 2 cm Muck (A10)
- ☑ Depleted Below Dark Surface (A11)
- ☐ Thick Dark Surface (A12)
- ☐ Sandy Mucky Mineral (S1)
- ☐ 5 cm Mucky Peat or Peat (S3)
- ☐ 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)

Indicators for Problematic Hydric Soils[3]:

- ☐ Coast Prairie Redox (A16)
- ☐ Dark Surface (S7)
- ☐ Iron-Manganese Masses (F12)
- ☐ Very Shallow Dark Surface (TF12)
- ☐ Other (Explain in Remarks)

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

Restrictive Layer (if observed):

Type: _____

Depth (inches): _____

Hydric Soil Present? **Yes**

Remarks:

HYDROLOGY

Wetland Hydrology Indicators:

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

- ☐ Surface Water (A1)
- ☐ High Water Table (A2)
- ☐ Saturation (A3)
- ☐ Water Marks (B1)
- ☐ Sediment Deposits (B2)
- ☐ Drift Deposits (B3)
- ☐ Algal Mat or Crust (B4)
- ☐ Iron Deposits (B5)
- ☐ Inundation Visible on Aerial Imagery (B7)
- ☐ Sparsely Vegetated Concave Surface (B8)
- ☐ Water-Stained Leaves (B9)
- ☐ Aquatic Fauna (B13)
- ☐ True Aquatic Plants (B14)
- ☐ Hydrogen Sulfide Odor (C1)
- ☐ Oxidized Rhizospheres on Living Roots (C3)
- ☐ Presence of Reduced Iron (C4)
- ☐ Recent Iron Reduction in Tilled Soils (C6)
- ☐ Thin Muck Surface (C7)
- ☐ Gauge or Well Data (D9)
- ☐ Other (Explain in Remarks)

Secondary Indicators (minimum of two is required)

- ☐ Surface Soil Cracks (B6)
- ☐ Drainage Patterns (B10)
- ☐ Dry-Season Water Table (C2)
- ☐ Crayfish Burrows (C8)
- ☐ Saturation Visible on Aerial Imagery (C9)
- ☐ Stunted or Stressed Plants (D1)
- ☐ Geomorphic Position (D2)
- ☐ FAC-Neutral Test (D5)

Field Observations:

Surface Water Present? No Depth (inches): _____

Water Table Present? No Depth (inches): _____

Saturation Present? (includes capillary fringe) No Depth (inches): _____

Wetland Hydrology Present? **No**

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

Remarks:

WETLAND DETERMINATION DATA FORM - Midwest Region

Project/Site: US 30 (FAP 349) (Baseline Road) City/County: Kane Sampling Date 6/25/2013

Applicant/Owner: IDOT District 1 State: IL Sampling Point 3A

Investigator(s): Wiesbrook, Marcum, and Beas Section, Township, Range: Sec 35, T38N, R7E

Landform (hillslope, terrace, etc.): Depression Local relief (concave, convex, none): Concave

Slope (%): <1 Lat: 41.72252 Long: -88.39936 Datum: NAD 83

Soil Map Unit Name: Peotone SICL, 0-2% slopes NWI classification: PEMAf

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

Are Vegetation Yes, Soil No, or Hydrology No significantly disturbed? Are "Normal Circumstances" present? No

Are Vegetation No, Soil No, or Hydrology No 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	**Is the Sampled Area within a Wetland?** **Yes**
Hydric Soil Present?	Yes	
Wetland Hydrology Present?	Yes	

Remarks: Community type is farmed wetland.

VEGETATION - Use scientific names of plants.

Tree Stratum (Plot size: 30 ft radius)	Absolute % Cover	Dominant Species?	Indicator Status
1.			
2.			
3.			
4.			
5.			
	0	= Total Cover	

Sapling/Shrub Stratum (Plot size: 15 ft radius)			
1.			
2.			
3.			
4.			
5.			
	0	= Total Cover	

Herb Stratum (Plot size: 5 ft radius)			
1.			
2.			
3.			
4.			
5.			
6.			
7.			
8.			
9.			
10.			
	0	= Total Cover	

Woody Vine Stratum (Plot size: 30 ft radius)			
1.			
2.			
	0	= Total Cover	

Dominance Test worksheet:

Number of Dominant Species That are OBL, FACW, or FAC: _____ (A)

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

Percent of Dominant Species That are OBL, FACW, or FAC: _____ (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

- ☐ 1-Rapid Test for Hydrophytic Vegetation
- ☐ 2-Dominance Test is >50%
- ☐ 3-Prevalence Index is < or =3.0[1]
- ☐ 4-Morphological Adaptations[1] (Provide supporting data in Remarks or on a 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**

Remarks: (Include photo numbers here or on a separate sheet.)

This site is an active cropland. The present situation is considered atypical because this site lacks a natural plant community (no vegetation was present). In our opinion, this site would support hydrophytic vegetation under unmanaged conditions.

SOIL

Sampling Point: 3A

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 Features %	Type[1]	Loc[2]	Texture	Remarks
0-13+	10YR 3/1	98	10YR 4/4	2	C	M	SICL	

[1] Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. [2] Location: PL=Pore Lining, M=Matrix

Hydric Soil Indicators:

- ☐ Histosol (A1)
- ☐ Histic Epipedon (A2)
- ☐ Black Histic (A3)
- ☐ Hydrogen Sulfide (A4)
- ☐ Stratified Layers (A5)
- ☐ 2 cm Muck (A10)
- ☐ Depleted Below Dark Surface (A11)
- ☐ Thick Dark Surface (A12)
- ☐ Sandy Mucky Mineral (S1)
- ☐ 5 cm Mucky Peat or Peat (S3)
- ☐ 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)

Indicators for Problematic Hydric Soils[3]:

- ☐ Coast Prairie Redox (A16)
- ☐ Dark Surface (S7)
- ☐ Iron-Manganese Masses (F12)
- ☐ Very Shallow Dark Surface (TF12)
- ☐ Other (Explain in Remarks)

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

Restrictive Layer (if observed):

Type: _____

Depth (inches): _____

Hydric Soil Present? **Yes**

Remarks:

HYDROLOGY

Wetland Hydrology Indicators:

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

- ☑ Surface Water (A1)
- ☑ High Water Table (A2)
- ☑ Saturation (A3)
- ☐ Water Marks (B1)
- ☐ Sediment Deposits (B2)
- ☐ Drift Deposits (B3)
- ☐ Algal Mat or Crust (B4)
- ☐ Iron Deposits (B5)
- ☐ Inundation Visible on Aerial Imagery (B7)
- ☐ Sparsely Vegetated Concave Surface (B8)
- ☐ Water-Stained Leaves (B9)
- ☐ Aquatic Fauna (B13)
- ☐ True Aquatic Plants (B14)
- ☐ Hydrogen Sulfide Odor (C1)
- ☐ Oxidized Rhizospheres on Living Roots (C3)
- ☐ Presence of Reduced Iron (C4)
- ☐ Recent Iron Reduction in Tilled Soils (C6)
- ☐ Thin Muck Surface (C7)
- ☐ Gauge or Well Data (D9)
- ☑ Other (Explain in Remarks)

Secondary Indicators (minimum of two is required)

- ☐ Surface Soil Cracks (B6)
- ☐ Drainage Patterns (B10)
- ☐ Dry-Season Water Table (C2)
- ☐ Crayfish Burrows (C8)
- ☐ Saturation Visible on Aerial Imagery (C9)
- ☑ Stunted or Stressed Plants (D1)
- ☐ Geomorphic Position (D2)
- ☐ FAC-Neutral Test (D5)

Field Observations:

Surface Water Present? Yes Depth (inches): <36

Water Table Present? Yes Depth (inches): 0

Saturation Present? (includes capillary fringe) Yes Depth (inches): 0

Wetland Hydrology Present? **Yes**

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

Percent of FSA crop photos with wetland signature evident: 60% Is the site coded as wetland by the NWI?: Yes

Remarks: Combined crop photo/NWI percentage: 67% Does the site possess wetland hydrology?: Yes Rationale: Wetland signature is evident in the majority of years examined.

WETLAND DETERMINATION DATA FORM - Midwest Region

Project/Site: US 30 (FAP 349) (Baseline Road) City/County: Kane Sampling Date 6/25/2013

Applicant/Owner: IDOT District 1 State: IL Sampling Point 4A

Investigator(s): Wiesbrook, Marcum, and Beas Section, Township, Range: Sec 35, T38N, R7E

Landform (hillslope, terrace, etc.): Depression Local relief (concave, convex, none): Concave

Slope (%): 0 Lat: 41.72419 Long: -88.39967 Datum: NAD 83

Soil Map Unit Name: Peotone SICL, 0-2% slopes NWI classification: PEMAf

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

Are Vegetation No, Soil No, or Hydrology No significantly disturbed? Are "Normal Circumstances" present? Yes

Are Vegetation No, Soil No, or Hydrology No 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	**Is the Sampled Area within a Wetland?** **Yes**
Hydric Soil Present?	Yes	
Wetland Hydrology Present?	Yes	

Remarks: Community type is wet meadow.

VEGETATION - Use scientific names of plants.

Tree Stratum (Plot size: 30 ft radius)	Absolute % Cover	Dominant Species?	Indicator Status
1.			
2.			
3.			
4.			
5.			
	0	= Total Cover	

Sapling/Shrub Stratum (Plot size: 15 ft radius)			
1.			
2.			
3.			
4.			
5.			
	0	= Total Cover	

Herb Stratum (Plot size: 5 ft radius)			
1. *Phalaris arundinacea*	95	Yes	FACW
2. *Polygonum coccineum*	4	No	OBL
3.			
4.			
5.			
6.			
7.			
8.			
9.			
10.			
	99	= Total Cover	

Woody Vine Stratum (Plot size: 30 ft radius)		
1.		
2.		
	0	= Total Cover

Dominance Test worksheet:

Number of Dominant Species That are OBL, FACW, or FAC: _____ (A)

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

Percent of Dominant Species That are OBL, FACW, or FAC: _____ (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] 1-Rapid Test for Hydrophytic Vegetation
- [ ] 2-Dominance Test is >50%
- [ ] 3-Prevalence Index is < or =3.0[1]
- [ ] 4-Morphological Adaptations[1] (Provide supporting data in Remarks or on a 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**

Remarks: (Include photo numbers here or on a separate sheet.)

SOIL

Sampling Point: 4A

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 Features %	Type[1]	Loc[2]	Texture	Remarks
0-13+	10YR 2/1	98	10YR 4/4	2	C	M	SICL	

[1] Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. [2] Location: PL=Pore Lining, M=Matrix

Hydric Soil Indicators:

- ☐ Histosol (A1)
- ☐ Histic Epipedon (A2)
- ☐ Black Histic (A3)
- ☐ Hydrogen Sulfide (A4)
- ☐ Stratified Layers (A5)
- ☐ 2 cm Muck (A10)
- ☐ Depleted Below Dark Surface (A11)
- ☐ Thick Dark Surface (A12)
- ☐ Sandy Mucky Mineral (S1)
- ☐ 5 cm Mucky Peat or Peat (S3)
- ☐ 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)

Indicators for Problematic Hydric Soils[3]:

- ☐ Coast Prairie Redox (A16)
- ☐ Dark Surface (S7)
- ☐ Iron-Manganese Masses (F12)
- ☐ Very Shallow Dark Surface (TF12)
- ☐ Other (Explain in Remarks)

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

Restrictive Layer (if observed):

Type: _____

Depth (inches): _____

Hydric Soil Present? **Yes**

Remarks:

HYDROLOGY

Wetland Hydrology Indicators:

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

- ☐ Surface Water (A1)
- ☐ High Water Table (A2)
- ☐ Saturation (A3)
- ☐ Water Marks (B1)
- ☐ Sediment Deposits (B2)
- ☑ Drift Deposits (B3)
- ☐ Algal Mat or Crust (B4)
- ☐ Iron Deposits (B5)
- ☐ Inundation Visible on Aerial Imagery (B7)
- ☐ Sparsely Vegetated Concave Surface (B8)
- ☐ Water-Stained Leaves (B9)
- ☐ Aquatic Fauna (B13)
- ☐ True Aquatic Plants (B14)
- ☐ Hydrogen Sulfide Odor (C1)
- ☐ Oxidized Rhizospheres on Living Roots (C3)
- ☐ Presence of Reduced Iron (C4)
- ☐ Recent Iron Reduction in Tilled Soils (C6)
- ☐ Thin Muck Surface (C7)
- ☐ Gauge or Well Data (D9)
- ☐ Other (Explain in Remarks)

Secondary Indicators (minimum of two is required)

- ☐ Surface Soil Cracks (B6)
- ☐ Drainage Patterns (B10)
- ☐ Dry-Season Water Table (C2)
- ☐ Crayfish Burrows (C8)
- ☐ Saturation Visible on Aerial Imagery (C9)
- ☐ Stunted or Stressed Plants (D1)
- ☑ Geomorphic Position (D2)
- ☑ FAC-Neutral Test (D5)

Field Observations:

Surface Water Present? No Depth (inches): _____

Water Table Present? No Depth (inches): _____

Saturation Present? (includes capillary fringe) No Depth (inches): _____

Wetland Hydrology Present? **Yes**

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

Remarks:

WETLAND DETERMINATION DATA FORM - Midwest Region

Project/Site: US 30 (FAP 349) (Baseline Road) City/County: Kane Sampling Date 6/25/2013

Applicant/Owner: IDOT District 1 State: IL Sampling Point 4B

Investigator(s): Wiesbrook, Marcum, and Beas Section, Township, Range: Sec 35, T38N, R7E

Landform (hillslope, terrace, etc.): Berm Local relief (concave, convex, none): None

Slope (%): <2 Lat: 41.72417 Long: -88.39976 Datum: NAD 83

Soil Map Unit Name: NRCS mapped as Peotone SICL; revised to Aquent NWI classification: U

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

Are Vegetation No, Soil No, or Hydrology No significantly disturbed? Are "Normal Circumstances" present? Yes

Are Vegetation No, Soil No, or Hydrology No 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?	No	**Is the Sampled Area within a Wetland?** **No**
Hydric Soil Present?	Yes	
Wetland Hydrology Present?	No	

Remarks: Community type is non-native grassland.

VEGETATION - Use scientific names of plants.

Tree Stratum (Plot size: 30 ft radius)	Absolute % Cover	Dominant Species?	Indicator Status
1.			
2.			
3.			
4.			
5.			
	0	= Total Cover	

Sapling/Shrub Stratum (Plot size: 15 ft radius)			
1.			
2.			
3.			
4.			
5.			
	0	= Total Cover	

Herb Stratum (Plot size: 5 ft radius)			
1. *Poa pratensis*	75	Yes	FAC
2. *Medicago lupulina*	25	Yes	FACU
3. *Agropyron repens*	4	No	FACU
4. *Festuca elatior*	1	No	FACU
5. *Taraxacum officinale*	1	No	FACU
6.			
7.			
8.			
9.			
10.			
	106	= Total Cover	

Woody Vine Stratum (Plot size: 30 ft radius)			
1.			
2.			
	0	= Total Cover	

Dominance Test worksheet:

Number of Dominant Species That are OBL, FACW, or 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		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

- ☐ 1-Rapid Test for Hydrophytic Vegetation
- ☐ 2-Dominance Test is >50%
- ☐ 3-Prevalence Index is < or =3.0[1]
- ☐ 4-Morphological Adaptations[1] (Provide supporting data in Remarks or on a 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? **No**

Remarks: (Include photo numbers here or on a separate sheet.)

SOIL

Sampling Point: 4B

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 Features %	Type[1]	Loc[2]	Texture	Remarks
0-4	10YR 2/1	98	10YR 4/4	2	C	M	SICL	
4-13+	2.5Y 4/1	80	10YR 5/6	20	C	M	SICL	

[1] Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. [2] Location: PL=Pore Lining, M=Matrix

Hydric Soil Indicators:

- ☐ Histosol (A1)
- ☐ Histic Epipedon (A2)
- ☐ Black Histic (A3)
- ☐ Hydrogen Sulfide (A4)
- ☐ Stratified Layers (A5)
- ☐ 2 cm Muck (A10)
- ☑ Depleted Below Dark Surface (A11)
- ☐ Thick Dark Surface (A12)
- ☐ Sandy Mucky Mineral (S1)
- ☐ 5 cm Mucky Peat or Peat (S3)
- ☐ 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)

Indicators for Problematic Hydric Soils[3]:

- ☐ Coast Prairie Redox (A16)
- ☐ Dark Surface (S7)
- ☐ Iron-Manganese Masses (F12)
- ☐ Very Shallow Dark Surface (TF12)
- ☐ Other (Explain in Remarks)

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

Restrictive Layer (if observed):

Type: _____

Depth (inches): _____

Hydric Soil Present? **Yes**

Remarks:

HYDROLOGY

Wetland Hydrology Indicators:

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

- ☐ Surface Water (A1)
- ☐ High Water Table (A2)
- ☐ Saturation (A3)
- ☐ Water Marks (B1)
- ☐ Sediment Deposits (B2)
- ☐ Drift Deposits (B3)
- ☐ Algal Mat or Crust (B4)
- ☐ Iron Deposits (B5)
- ☐ Inundation Visible on Aerial Imagery (B7)
- ☐ Sparsely Vegetated Concave Surface (B8)
- ☐ Water-Stained Leaves (B9)
- ☐ Aquatic Fauna (B13)
- ☐ True Aquatic Plants (B14)
- ☐ Hydrogen Sulfide Odor (C1)
- ☐ Oxidized Rhizospheres on Living Roots (C3)
- ☐ Presence of Reduced Iron (C4)
- ☐ Recent Iron Reduction in Tilled Soils (C6)
- ☐ Thin Muck Surface (C7)
- ☐ Gauge or Well Data (D9)
- ☐ Other (Explain in Remarks)

Secondary Indicators (minimum of two is required)

- ☐ Surface Soil Cracks (B6)
- ☐ Drainage Patterns (B10)
- ☐ Dry-Season Water Table (C2)
- ☐ Crayfish Burrows (C8)
- ☐ Saturation Visible on Aerial Imagery (C9)
- ☐ Stunted or Stressed Plants (D1)
- ☐ Geomorphic Position (D2)
- ☐ FAC-Neutral Test (D5)

Field Observations:

Surface Water Present? No Depth (inches): _____

Water Table Present? No Depth (inches): _____

Saturation Present? (includes capillary fringe) No Depth (inches): _____

Wetland Hydrology Present? **No**

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

Remarks:

WETLAND DETERMINATION DATA FORM - Midwest Region

Project/Site: US 30 (FAP 349) (Baseline Road) City/County: Kane Sampling Date 6/25/2013

Applicant/Owner: IDOT District 1 State: IL Sampling Point 5A

Investigator(s): Wiesbrook, Marcum, and Beas Section, Township, Range: Sec 36, T38N, R7E

Landform (hillslope, terrace, etc.): Excavated depression Local relief (concave, convex, none): Concave

Slope (%): <2 Lat: 41.72287 Long: -88.38796 Datum: NAD 83

Soil Map Unit Name: NRCS mapped as Drummer SICL; revised to Aquent NWI classification: U

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

Are Vegetation No, Soil No, or Hydrology No significantly disturbed? Are "Normal Circumstances" present? Yes

Are Vegetation No, Soil No, or Hydrology No 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	**Is the Sampled Area within a Wetland?** **Yes**
Hydric Soil Present?	Yes	
Wetland Hydrology Present?	Yes	

Remarks: Community type is wetland pond.

VEGETATION - Use scientific names of plants.

Tree Stratum (Plot size: 30 ft radius)	Absolute % Cover	Dominant Species?	Indicator Status
1.			
2.			
3.			
4.			
5.			
	0	= Total Cover	

Sapling/Shrub Stratum (Plot size: 15 ft radius)			
1.			
2.			
3.			
4.			
5.			
	0	= Total Cover	

Herb Stratum (Plot size: 5 ft radius)			
1. *Sagittaria latifolia*	40	Yes	OBL
2. *Potamogeton pectinatus*	25	Yes	OBL
3. *Ceratophyllum demersum*	5	No	OBL
4. *Leersia oryzoides*	2	No	OBL
5. *Polygonum coccineum*	1	No	OBL
6.			
7.			
8.			
9.			
10.			
	73	= Total Cover	

Woody Vine Stratum (Plot size: 30 ft radius)			
1.			
2.			
	0	= Total Cover	

Dominance Test worksheet:

Number of Dominant Species That are OBL, FACW, or FAC: _____ (A)

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

Percent of Dominant Species That are OBL, FACW, or FAC: _____ (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] 1-Rapid Test for Hydrophytic Vegetation
- [ ] 2-Dominance Test is >50%
- [ ] 3-Prevalence Index is < or =3.0[1]
- [ ] 4-Morphological Adaptations[1] (Provide supporting data in Remarks or on a 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**

Remarks: (Include photo numbers here or on a separate sheet.)

SOIL

Sampling Point: 5A

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 Features %	Type[1]	Loc[2]	Texture	Remarks
0-13+	10YR 3/1	97	10YR 4/6	3	C	M	SICL	

[1] Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. [2] Location: PL=Pore Lining, M=Matrix

Hydric Soil Indicators:

- ☐ Histosol (A1)
- ☐ Histic Epipedon (A2)
- ☐ Black Histic (A3)
- ☐ Hydrogen Sulfide (A4)
- ☐ Stratified Layers (A5)
- ☐ 2 cm Muck (A10)
- ☐ Depleted Below Dark Surface (A11)
- ☐ Thick Dark Surface (A12)
- ☐ Sandy Mucky Mineral (S1)
- ☐ 5 cm Mucky Peat or Peat (S3)
- ☐ 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)

Indicators for Problematic Hydric Soils[3]:

- ☐ Coast Prairie Redox (A16)
- ☐ Dark Surface (S7)
- ☐ Iron-Manganese Masses (F12)
- ☐ Very Shallow Dark Surface (TF12)
- ☐ Other (Explain in Remarks)

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

Restrictive Layer (if observed):

Type: _____

Depth (inches): _____

Hydric Soil Present? **Yes**

Remarks:

HYDROLOGY

Wetland Hydrology Indicators:

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

- ☑ Surface Water (A1)
- ☑ High Water Table (A2)
- ☑ Saturation (A3)
- ☐ Water Marks (B1)
- ☐ Sediment Deposits (B2)
- ☐ Drift Deposits (B3)
- ☐ Algal Mat or Crust (B4)
- ☐ Iron Deposits (B5)
- ☐ Inundation Visible on Aerial Imagery (B7)
- ☐ Sparsely Vegetated Concave Surface (B8)
- ☐ Water-Stained Leaves (B9)
- ☐ Aquatic Fauna (B13)
- ☑ True Aquatic Plants (B14)
- ☐ Hydrogen Sulfide Odor (C1)
- ☐ Oxidized Rhizospheres on Living Roots (C3)
- ☐ Presence of Reduced Iron (C4)
- ☐ Recent Iron Reduction in Tilled Soils (C6)
- ☐ Thin Muck Surface (C7)
- ☐ Gauge or Well Data (D9)
- ☐ Other (Explain in Remarks)

Secondary Indicators (minimum of two is required)

- ☐ Surface Soil Cracks (B6)
- ☐ Drainage Patterns (B10)
- ☐ Dry-Season Water Table (C2)
- ☐ Crayfish Burrows (C8)
- ☐ Saturation Visible on Aerial Imagery (C9)
- ☐ Stunted or Stressed Plants (D1)
- ☑ Geomorphic Position (D2)
- ☑ FAC-Neutral Test (D5)

Field Observations:

Surface Water Present? Yes Depth (inches): <72

Water Table Present? Yes Depth (inches): 0

Saturation Present? (includes capillary fringe) Yes Depth (inches): 0

Wetland Hydrology Present? **Yes**

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

Remarks:

WETLAND DETERMINATION DATA FORM - Midwest Region

Project/Site: US 30 (FAP 349) (Baseline Road) City/County: Kane Sampling Date 7/9/2013

Applicant/Owner: IDOT District 1 State: IL Sampling Point 5B

Investigator(s): Wiesbrook and Marcum Section, Township, Range: Sec 36, T38N, R7E

Landform (hillslope, terrace, etc.): Hillslope Local relief (concave, convex, none): None

Slope (%): >15 Lat: 41.72279 Long: -88.38771 Datum: NAD 83

Soil Map Unit Name: Waupecan SIL, 0-2% slopes NWI classification: U

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

Are Vegetation No, Soil No, or Hydrology No significantly disturbed? Are "Normal Circumstances" present? Yes

Are Vegetation No, Soil No, or Hydrology No 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?	No	**Is the Sampled Area within a Wetland?** **No**
Hydric Soil Present?	No	
Wetland Hydrology Present?	No	

Remarks: Community type is prairie planting.

VEGETATION - Use scientific names of plants.

Tree Stratum (Plot size: 30 ft radius)	Absolute % Cover	Dominant Species?	Indicator Status
1.			
2.			
3.			
4.			
5.			
	0	= Total Cover	

Sapling/Shrub Stratum (Plot size: 15 ft radius)			
1.			
2.			
3.			
4.			
5.			
	0	= Total Cover	

Herb Stratum (Plot size: 5 ft radius)			
1. *Andropogon gerardii*	20	Yes	FAC
2. *Heliopsis helianthoides*	20	Yes	FACU
3. *Monarda fistulosa*	20	Yes	FACU
4. *Echinacea purpurea*	15	No	UPL
5. *Rudbeckia hirta*	15	No	FACU
6. *Medicago lupulina*	8	No	FACU
7. *Lychnis alba*	4	No	UPL
8. *Chenopodium album*	3	No	FACU
9. *Elymus canadensis*	3	No	FACU
10. *Aster laevis*	2	No	FACU
	118	= Total Cover	

Woody Vine Stratum (Plot size: 30 ft radius)		
1.		
2.		
	0	= Total Cover

Dominance Test worksheet:

Number of Dominant Species That are OBL, FACW, or FAC: 1 (A)

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

Percent of Dominant Species That are OBL, FACW, or FAC: 33% (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

- ☐ 1-Rapid Test for Hydrophytic Vegetation
- ☐ 2-Dominance Test is >50%
- ☐ 3-Prevalence Index is < or =3.0[1]
- ☐ 4-Morphological Adaptations[1] (Provide supporting data in Remarks or on a 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? **No**

Remarks: (Include photo numbers here or on a separate sheet.)

SOIL

Sampling Point: 5B

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 Features %	Type[1]	Loc[2]	Texture	Remarks
0-13+	10YR 3/1	99	10YR 4/4	1	C	M	SICL	

[1] Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. [2] Location: PL=Pore Lining, M=Matrix

Hydric Soil Indicators:

- ☐ Histosol (A1)
- ☐ Histic Epipedon (A2)
- ☐ Black Histic (A3)
- ☐ Hydrogen Sulfide (A4)
- ☐ Stratified Layers (A5)
- ☐ 2 cm Muck (A10)
- ☐ Depleted Below Dark Surface (A11)
- ☐ Thick Dark Surface (A12)
- ☐ Sandy Mucky Mineral (S1)
- ☐ 5 cm Mucky Peat or Peat (S3)
- ☐ 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)

Indicators for Problematic Hydric Soils[3]:

- ☐ Coast Prairie Redox (A16)
- ☐ Dark Surface (S7)
- ☐ Iron-Manganese Masses (F12)
- ☐ Very Shallow Dark Surface (TF12)
- ☐ Other (Explain in Remarks)

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

Restrictive Layer (if observed):

Type: _____

Depth (inches): _____

Hydric Soil Present? **No**

Remarks:

HYDROLOGY

Wetland Hydrology Indicators:

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

- ☐ Surface Water (A1)
- ☐ High Water Table (A2)
- ☐ Saturation (A3)
- ☐ Water Marks (B1)
- ☐ Sediment Deposits (B2)
- ☐ Drift Deposits (B3)
- ☐ Algal Mat or Crust (B4)
- ☐ Iron Deposits (B5)
- ☐ Inundation Visible on Aerial Imagery (B7)
- ☐ Sparsely Vegetated Concave Surface (B8)
- ☐ Water-Stained Leaves (B9)
- ☐ Aquatic Fauna (B13)
- ☐ True Aquatic Plants (B14)
- ☐ Hydrogen Sulfide Odor (C1)
- ☐ Oxidized Rhizospheres on Living Roots (C3)
- ☐ Presence of Reduced Iron (C4)
- ☐ Recent Iron Reduction in Tilled Soils (C6)
- ☐ Thin Muck Surface (C7)
- ☐ Gauge or Well Data (D9)
- ☐ Other (Explain in Remarks)

Secondary Indicators (minimum of two is required)

- ☐ Surface Soil Cracks (B6)
- ☐ Drainage Patterns (B10)
- ☐ Dry-Season Water Table (C2)
- ☐ Crayfish Burrows (C8)
- ☐ Saturation Visible on Aerial Imagery (C9)
- ☐ Stunted or Stressed Plants (D1)
- ☐ Geomorphic Position (D2)
- ☐ FAC-Neutral Test (D5)

Field Observations:

Surface Water Present? No Depth (inches): _____

Water Table Present? No Depth (inches): _____

Saturation Present? (includes capillary fringe) No Depth (inches): _____

Wetland Hydrology Present? **No**

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

Remarks:

WETLAND DETERMINATION DATA FORM - Midwest Region

Project/Site: US 30 (FAP 349) (Baseline Road) City/County: Kendall Sampling Date 6/25/2013

Applicant/Owner: IDOT District 1 State: IL Sampling Point 6A

Investigator(s): Wiesbrook, Marcum, and Beas Section, Township, Range: Sec 1, T37N, R7E

Landform (hillslope, terrace, etc.): Floodplain Local relief (concave, convex, none): None

Slope (%): 0 Lat: 41.72229 Long: -88.37709 Datum: NAD 83

Soil Map Unit Name: Millington SIL, 0-2% slopes, frequently flooded NWI classification: PEMAf

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

Are Vegetation No , Soil No , or Hydrology No significantly disturbed? Are "Normal Circumstances" present? Yes

Are Vegetation No , Soil No , or Hydrology No 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	**Is the Sampled Area within a Wetland?**	**Yes**
Hydric Soil Present?	Yes		
Wetland Hydrology Present?	Yes		

Remarks: Community type is wet meadow.

VEGETATION - Use scientific names of plants.

Tree Stratum (Plot size: 30 ft radius)	Absolute % Cover	Dominant Species?	Indicator Status
1.			
2.			
3.			
4.			
5.			
	0	= Total Cover	

Sapling/Shrub Stratum (Plot size: 15 ft radius)			
1.			
2.			
3.			
4.			
5.			
	0	= Total Cover	

Herb Stratum (Plot size: 5 ft radius)			
1. *Phalaris arundinacea*	80	Yes	FACW
2. *Solidago canadensis*	10	No	FACU
3. *Solidago gigantea*	10	No	FACW
4. *Hordeum jubatum*	2	No	FAC
5.			
6.			
7.			
8.			
9.			
10.			
	102	= Total Cover	

Woody Vine Stratum (Plot size: 30 ft radius)			
1.			
2.			
	0	= Total Cover	

Dominance Test worksheet:

Number of Dominant Species That are OBL, FACW, or FAC: _____ (A)

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

Percent of Dominant Species That are OBL, FACW, or FAC: _____ (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] 1-Rapid Test for Hydrophytic Vegetation
- [ ] 2-Dominance Test is >50%
- [ ] 3-Prevalence Index is < or =3.0[1]
- [ ] 4-Morphological Adaptations[1] (Provide supporting data in Remarks or on a 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**

Remarks: (Include photo numbers here or on a separate sheet.)

SOIL

Sampling Point: 6A

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 Features %	Type[1]	Loc[2]	Texture	Remarks
0-13+	10YR 3/1	98	10YR 4/6	2	C	M	SIL	

[1] Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. [2] Location: PL=Pore Lining, M=Matrix

Hydric Soil Indicators:

- ☐ Histosol (A1)
- ☐ Histic Epipedon (A2)
- ☐ Black Histic (A3)
- ☐ Hydrogen Sulfide (A4)
- ☐ Stratified Layers (A5)
- ☐ 2 cm Muck (A10)
- ☐ Depleted Below Dark Surface (A11)
- ☐ Thick Dark Surface (A12)
- ☐ Sandy Mucky Mineral (S1)
- ☐ 5 cm Mucky Peat or Peat (S3)
- ☐ 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)

Indicators for Problematic Hydric Soils[3]:

- ☐ Coast Prairie Redox (A16)
- ☐ Dark Surface (S7)
- ☐ Iron-Manganese Masses (F12)
- ☐ Very Shallow Dark Surface (TF12)
- ☐ Other (Explain in Remarks)

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

Restrictive Layer (if observed):

Type: _____

Depth (inches): _____

Hydric Soil Present? **Yes**

Remarks:

HYDROLOGY

Wetland Hydrology Indicators:

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

- ☐ Surface Water (A1)
- ☐ High Water Table (A2)
- ☐ Saturation (A3)
- ☐ Water Marks (B1)
- ☐ Sediment Deposits (B2)
- ☑ Drift Deposits (B3)
- ☐ Algal Mat or Crust (B4)
- ☐ Iron Deposits (B5)
- ☐ Inundation Visible on Aerial Imagery (B7)
- ☐ Sparsely Vegetated Concave Surface (B8)
- ☐ Water-Stained Leaves (B9)
- ☐ Aquatic Fauna (B13)
- ☐ True Aquatic Plants (B14)
- ☐ Hydrogen Sulfide Odor (C1)
- ☐ Oxidized Rhizospheres on Living Roots (C3)
- ☐ Presence of Reduced Iron (C4)
- ☐ Recent Iron Reduction in Tilled Soils (C6)
- ☐ Thin Muck Surface (C7)
- ☐ Gauge or Well Data (D9)
- ☐ Other (Explain in Remarks)

Secondary Indicators (minimum of two is required)

- ☐ Surface Soil Cracks (B6)
- ☐ Drainage Patterns (B10)
- ☐ Dry-Season Water Table (C2)
- ☐ Crayfish Burrows (C8)
- ☐ Saturation Visible on Aerial Imagery (C9)
- ☐ Stunted or Stressed Plants (D1)
- ☐ Geomorphic Position (D2)
- ☑ FAC-Neutral Test (D5)

Field Observations:

Surface Water Present? No Depth (inches): _____

Water Table Present? No Depth (inches): _____

Saturation Present? (includes capillary fringe) No Depth (inches): _____

Wetland Hydrology Present? **Yes**

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

Remarks:

WETLAND DETERMINATION DATA FORM - Midwest Region

Project/Site: US 30 (FAP 349) (Baseline Road) City/County: Kendall Sampling Date 6/25/2013

Applicant/Owner: IDOT District 1 State: IL Sampling Point 6B

Investigator(s): Wiesbrook, Marcum, and Beas Section, Township, Range: Sec 1, T37N, R7E

Landform (hillslope, terrace, etc.): Floodplain Local relief (concave, convex, none): None

Slope (%): 0 Lat: 41.72228 Long: -88.37764 Datum: NAD 83

Soil Map Unit Name: NRCS mapped as Millington SIL; revised to undetermined NWI classification: U

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

Are Vegetation No , Soil No , or Hydrology No significantly disturbed? Are "Normal Circumstances" present? Yes

Are Vegetation No , Soil No , or Hydrology No 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?	No	**Is the Sampled Area within a Wetland?** **No**
Hydric Soil Present?	Yes	
Wetland Hydrology Present?	No	

Remarks: Community type is prairie planting.

VEGETATION - Use scientific names of plants.

Tree Stratum (Plot size: 30 ft radius)	Absolute % Cover	Dominant Species?	Indicator Status
1.			
2.			
3.			
4.			
5.			
	0	= Total Cover	

Sapling/Shrub Stratum (Plot size: 15 ft radius)			
1.			
2.			
3.			
4.			
5.			
	0	= Total Cover	

Herb Stratum (Plot size: 5 ft radius)			
1. *Poa pratensis*	50	Yes	FAC
2. *Daucus carota*	20	Yes	UPL
3. *Festuca elatior*	20	Yes	FACU
4. *Medicago lupulina*	10	No	FACU
5. *Ratibida pinnata*	4	No	UPL
6. *Cassia fasciculata*	3	No	FACU
7. *Cirsium vulgare*	1	No	FACU
8. *Elymus virginicus*	1	No	FACW
9. *Rudbeckia subtomentosa*	1	No	FACU
10. *Ulmus pumila*	1	No	UPL
	111	= Total Cover	

Woody Vine Stratum (Plot size: 30 ft radius)			
1.			
2.			
	0	= Total Cover	

Dominance Test worksheet:

Number of Dominant Species That are OBL, FACW, or FAC: 1 (A)

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

Percent of Dominant Species That are OBL, FACW, or FAC: 33% (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

- ☐ 1-Rapid Test for Hydrophytic Vegetation
- ☐ 2-Dominance Test is >50%
- ☐ 3-Prevalence Index is < or =3.0[1]
- ☐ 4-Morphological Adaptations[1] (Provide supporting data in Remarks or on a 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? **No**

Remarks: (Include photo numbers here or on a separate sheet.)

SOIL

Sampling Point: 6B

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
0-8	10YR 3/1	100					SIL	
8-14+	10YR 4/2	98	10YR 4/6	2	C	M	SIL	

[1] Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. [2] Location: PL=Pore Lining, M=Matrix

Hydric Soil Indicators:

- ☐ Histosol (A1)
- ☐ Histic Epipedon (A2)
- ☐ Black Histic (A3)
- ☐ Hydrogen Sulfide (A4)
- ☐ Stratified Layers (A5)
- ☐ 2 cm Muck (A10)
- ☑ Depleted Below Dark Surface (A11)
- ☐ Thick Dark Surface (A12)
- ☐ Sandy Mucky Mineral (S1)
- ☐ 5 cm Mucky Peat or Peat (S3)
- ☐ 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)

Indicators for Problematic Hydric Soils[3]:

- ☐ Coast Prairie Redox (A16)
- ☐ Dark Surface (S7)
- ☐ Iron-Manganese Masses (F12)
- ☐ Very Shallow Dark Surface (TF12)
- ☐ Other (Explain in Remarks)

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

Restrictive Layer (if observed):

Type: _____

Depth (inches): _____

Hydric Soil Present? **Yes**

Remarks:

HYDROLOGY

Wetland Hydrology Indicators:

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

- ☐ Surface Water (A1)
- ☐ High Water Table (A2)
- ☐ Saturation (A3)
- ☐ Water Marks (B1)
- ☐ Sediment Deposits (B2)
- ☐ Drift Deposits (B3)
- ☐ Algal Mat or Crust (B4)
- ☐ Iron Deposits (B5)
- ☐ Inundation Visible on Aerial Imagery (B7)
- ☐ Sparsely Vegetated Concave Surface (B8)
- ☐ Water-Stained Leaves (B9)
- ☐ Aquatic Fauna (B13)
- ☐ True Aquatic Plants (B14)
- ☐ Hydrogen Sulfide Odor (C1)
- ☐ Oxidized Rhizospheres on Living Roots (C3)
- ☐ Presence of Reduced Iron (C4)
- ☐ Recent Iron Reduction in Tilled Soils (C6)
- ☐ Thin Muck Surface (C7)
- ☐ Gauge or Well Data (D9)
- ☐ Other (Explain in Remarks)

Secondary Indicators (minimum of two is required)

- ☐ Surface Soil Cracks (B6)
- ☐ Drainage Patterns (B10)
- ☐ Dry-Season Water Table (C2)
- ☐ Crayfish Burrows (C8)
- ☐ Saturation Visible on Aerial Imagery (C9)
- ☐ Stunted or Stressed Plants (D1)
- ☐ Geomorphic Position (D2)
- ☐ FAC-Neutral Test (D5)

Field Observations:

Surface Water Present? No Depth (inches): _____

Water Table Present? No Depth (inches): _____

Saturation Present? (includes capillary fringe) No Depth (inches): _____

Wetland Hydrology Present? **No**

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

Remarks:

WETLAND DETERMINATION DATA FORM - Midwest Region

Project/Site: US 30 (FAP 349) (Baseline Road) City/County: Kane Sampling Date 7/9/2013

Applicant/Owner: IDOT District 1 State: IL Sampling Point 6C

Investigator(s): Wiesbrook and Marcum Section, Township, Range: Sec 36, T38N, R7E

Landform (hillslope, terrace, etc.): Floodplain Local relief (concave, convex, none): None

Slope (%): 0 Lat: 41.72288 Long: -88.37659 Datum: NAD 83

Soil Map Unit Name: Millington L NWI classification: PEMC

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

Are Vegetation No , Soil No , or Hydrology No significantly disturbed? Are "Normal Circumstances" present? Yes

Are Vegetation No , Soil No , or Hydrology No 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?	No	**Is the Sampled Area within a Wetland?** **No**
Hydric Soil Present?	Yes	
Wetland Hydrology Present?	No	

Remarks: Community type is non-native grassland.

VEGETATION - Use scientific names of plants.

Tree Stratum (Plot size: 30 ft radius)	Absolute % Cover	Dominant Species?	Indicator Status
1.			
2.			
3.			
4.			
5.			
	0	= Total Cover	

Sapling/Shrub Stratum (Plot size: 15 ft radius)			
1.			
2.			
3.			
4.			
5.			
	0	= Total Cover	

Herb Stratum (Plot size: 5 ft radius)			
1. *Poa pratensis*	50	Yes	FAC
2. *Glechoma hederacea*	35	Yes	FACU
3. *Trifolium repens*	30	Yes	FACU
4. *Festuca elatior*	15	No	FACU
5. *Taraxacum officinale*	2	No	FACU
6.			
7.			
8.			
9.			
10.			
	132	= Total Cover	

Woody Vine Stratum (Plot size: 30 ft radius)			
1.			
2.			
	0	= Total Cover	

Dominance Test worksheet:

Number of Dominant Species That are OBL, FACW, or FAC: 1 (A)

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

Percent of Dominant Species That are OBL, FACW, or FAC: 33% (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

- ☐ 1-Rapid Test for Hydrophytic Vegetation
- ☐ 2-Dominance Test is >50%
- ☐ 3-Prevalence Index is < or =3.0[1]
- ☐ 4-Morphological Adaptations[1] (Provide supporting data in Remarks or on a 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? **No**

Remarks: (Include photo numbers here or on a separate sheet.)

SOIL

Sampling Point: 6C

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 Features %	Type[1]	Loc[2]	Texture	Remarks
0-6	10YR 3/1	100					L	
6-12+	10YR 3/1	90	10YR 3/4	10	C	M	L	

[1] Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. [2] Location: PL=Pore Lining, M=Matrix

Hydric Soil Indicators:

- ☐ Histosol (A1)
- ☐ Histic Epipedon (A2)
- ☐ Black Histic (A3)
- ☐ Hydrogen Sulfide (A4)
- ☐ Stratified Layers (A5)
- ☐ 2 cm Muck (A10)
- ☐ Depleted Below Dark Surface (A11)
- ☐ Thick Dark Surface (A12)
- ☐ Sandy Mucky Mineral (S1)
- ☐ 5 cm Mucky Peat or Peat (S3)
- ☐ 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)

Indicators for Problematic Hydric Soils[3]:

- ☐ Coast Prairie Redox (A16)
- ☐ Dark Surface (S7)
- ☐ Iron-Manganese Masses (F12)
- ☐ Very Shallow Dark Surface (TF12)
- ☐ Other (Explain in Remarks)

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

Restrictive Layer (if observed):

Type: _____

Depth (inches): _____

Hydric Soil Present? **Yes**

Remarks:

HYDROLOGY

Wetland Hydrology Indicators:

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

- ☐ Surface Water (A1)
- ☐ High Water Table (A2)
- ☐ Saturation (A3)
- ☐ Water Marks (B1)
- ☐ Sediment Deposits (B2)
- ☐ Drift Deposits (B3)
- ☐ Algal Mat or Crust (B4)
- ☐ Iron Deposits (B5)
- ☐ Inundation Visible on Aerial Imagery (B7)
- ☐ Sparsely Vegetated Concave Surface (B8)
- ☐ Water-Stained Leaves (B9)
- ☐ Aquatic Fauna (B13)
- ☐ True Aquatic Plants (B14)
- ☐ Hydrogen Sulfide Odor (C1)
- ☐ Oxidized Rhizospheres on Living Roots (C3)
- ☐ Presence of Reduced Iron (C4)
- ☐ Recent Iron Reduction in Tilled Soils (C6)
- ☐ Thin Muck Surface (C7)
- ☐ Gauge or Well Data (D9)
- ☐ Other (Explain in Remarks)

Secondary Indicators (minimum of two is required)

- ☐ Surface Soil Cracks (B6)
- ☐ Drainage Patterns (B10)
- ☐ Dry-Season Water Table (C2)
- ☐ Crayfish Burrows (C8)
- ☐ Saturation Visible on Aerial Imagery (C9)
- ☐ Stunted or Stressed Plants (D1)
- ☐ Geomorphic Position (D2)
- ☐ FAC-Neutral Test (D5)

Field Observations:

Surface Water Present? No Depth (inches): _____

Water Table Present? No Depth (inches): _____

Saturation Present? (includes capillary fringe) No Depth (inches): _____

Wetland Hydrology Present? **No**

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

Remarks:

WETLAND DETERMINATION DATA FORM - Midwest Region

Project/Site: US 30 (FAP 349) (Baseline Road) City/County: Kendall Sampling Date 7/17/2013

Applicant/Owner: IDOT District 1 State: IL Sampling Point 7A

Investigator(s): Wiesbrook, Marcum, and Wilm Section, Township, Range: Sec 6, T37N, R8E

Landform (hillslope, terrace, etc.): Excavated depression Local relief (concave, convex, none): Concave

Slope (%): 0 Lat: 41.72232 Long: -88.36847 Datum: NAD 83

Soil Map Unit Name: NRCS mapped as Waupecan SIL, 0-2% slopes; revised to Aquent NWI classification: U

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

Are Vegetation No , Soil No , or Hydrology No significantly disturbed? Are "Normal Circumstances" present? Yes

Are Vegetation No , Soil No , or Hydrology No 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	**Is the Sampled Area within a Wetland?**	**Yes**
Hydric Soil Present?	Yes		
Wetland Hydrology Present?	Yes		

Remarks: Community type is marsh.

VEGETATION - Use scientific names of plants.

Tree Stratum (Plot size: 30 ft radius)	Absolute % Cover	Dominant Species?	Indicator Status
1.			
2.			
3.			
4.			
5.			
	0	= Total Cover	

Sapling/Shrub Stratum (Plot size: 15 ft radius)			
1.			
2.			
3.			
4.			
5.			
	0	= Total Cover	

Herb Stratum (Plot size: 5 ft radius)			
1. *Eleocharis erythropoda*	80	Yes	OBL
2. *Typha angustifolia*	50	Yes	OBL
3. *Sparganium eurycarpum*	5	No	OBL
4.			
5.			
6.			
7.			
8.			
9.			
10.			
	135	= Total Cover	

Woody Vine Stratum (Plot size: 30 ft radius)			
1.			
2.			
	0	= Total Cover	

Dominance Test worksheet:

Number of Dominant Species That are OBL, FACW, or FAC: _____ (A)

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

Percent of Dominant Species That are OBL, FACW, or FAC: _____ (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] 1-Rapid Test for Hydrophytic Vegetation
- [ ] 2-Dominance Test is >50%
- [ ] 3-Prevalence Index is < or =3.0[1]
- [ ] 4-Morphological Adaptations[1] (Provide supporting data in Remarks or on a 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**

Remarks: (Include photo numbers here or on a separate sheet.)

SOIL

Sampling Point: 7A

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 Features %	Type[1]	Loc[2]	Texture	Remarks
0-13+	N 3/	95	7.5YR 4/4	5	C	M	SICL	Disturbed profile

[1] Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. [2] Location: PL=Pore Lining, M=Matrix

Hydric Soil Indicators:

- ☐ Histosol (A1)
- ☐ Histic Epipedon (A2)
- ☐ Black Histic (A3)
- ☐ Hydrogen Sulfide (A4)
- ☐ Stratified Layers (A5)
- ☐ 2 cm Muck (A10)
- ☐ Depleted Below Dark Surface (A11)
- ☐ Thick Dark Surface (A12)
- ☐ Sandy Mucky Mineral (S1)
- ☐ 5 cm Mucky Peat or Peat (S3)
- ☐ 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)

Indicators for Problematic Hydric Soils[3]:

- ☐ Coast Prairie Redox (A16)
- ☐ Dark Surface (S7)
- ☐ Iron-Manganese Masses (F12)
- ☐ Very Shallow Dark Surface (TF12)
- ☐ Other (Explain in Remarks)

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

Restrictive Layer (if observed):

Type: _____

Depth (inches): _____

Hydric Soil Present? **Yes**

Remarks:

HYDROLOGY

Wetland Hydrology Indicators:

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

- ☐ Surface Water (A1)
- ☐ High Water Table (A2)
- ☐ Saturation (A3)
- ☐ Water Marks (B1)
- ☐ Sediment Deposits (B2)
- ☐ Drift Deposits (B3)
- ☐ Algal Mat or Crust (B4)
- ☐ Iron Deposits (B5)
- ☐ Inundation Visible on Aerial Imagery (B7)
- ☐ Sparsely Vegetated Concave Surface (B8)
- ☐ Water-Stained Leaves (B9)
- ☐ Aquatic Fauna (B13)
- ☐ True Aquatic Plants (B14)
- ☐ Hydrogen Sulfide Odor (C1)
- ☐ Oxidized Rhizospheres on Living Roots (C3)
- ☐ Presence of Reduced Iron (C4)
- ☐ Recent Iron Reduction in Tilled Soils (C6)
- ☐ Thin Muck Surface (C7)
- ☐ Gauge or Well Data (D9)
- ☐ Other (Explain in Remarks)

Secondary Indicators (minimum of two is required)

- ☐ Surface Soil Cracks (B6)
- ☐ Drainage Patterns (B10)
- ☐ Dry-Season Water Table (C2)
- ☐ Crayfish Burrows (C8)
- ☑ Saturation Visible on Aerial Imagery (C9)
- ☐ Stunted or Stressed Plants (D1)
- ☑ Geomorphic Position (D2)
- ☑ FAC-Neutral Test (D5)

Field Observations:

Surface Water Present? No Depth (inches): _____

Water Table Present? No Depth (inches): _____

Saturation Present? (includes capillary fringe) No Depth (inches): _____

Wetland Hydrology Present? **Yes**

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

Remarks:

WETLAND DETERMINATION DATA FORM - Midwest Region

Project/Site: US 30 (FAP 349) (Baseline Road) City/County: Kendall Sampling Date 7/17/2013

Applicant/Owner: IDOT District 1 State: IL Sampling Point 7B

Investigator(s): Wiesbrook, Marcum, and Wilm Section, Township, Range: Sec 6, T37N, R8E

Landform (hillslope, terrace, etc.): Embankment Local relief (concave, convex, none): None

Slope (%): >20 Lat: 41.72236 Long: -88.36856 Datum: NAD 83

Soil Map Unit Name: NRCS mapped as Waupecan SIL, 0-2% slopes; revised to Orthent NWI classification: U

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

Are Vegetation No, Soil No, or Hydrology No significantly disturbed? Are "Normal Circumstances" present? Yes

Are Vegetation No, Soil No, or Hydrology No 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	**Is the Sampled Area within a Wetland?**	**No**
Hydric Soil Present?	No		
Wetland Hydrology Present?	No		

Remarks: Community type is prairie planting.

VEGETATION - Use scientific names of plants.

Tree Stratum (Plot size: 30 ft radius)	Absolute % Cover	Dominant Species?	Indicator Status
1.			
2.			
3.			
4.			
5.			
	0	= Total Cover	

Sapling/Shrub Stratum (Plot size: 15 ft radius)			
1.			
2.			
3.			
4.			
5.			
	0	= Total Cover	

Herb Stratum (Plot size: 5 ft radius)			
1. *Andropogon gerardii*	60	Yes	FAC
2. *Agrostis alba*	20	Yes	FACW
3. *Ambrosia artemisiifolia var. elatior*	20	Yes	FACU
4. *Cirsium arvense*	5	No	FACU
5. *Erigeron annuus*	5	No	FACU
6. *Medicago lupulina*	5	No	FACU
7. *Aster pilosus*	3	No	FACU
8. *Echinochloa crusgalli*	3	No	OBL
9. *Rumex crispus*	3	No	FAC
10. *Carex tribuloides*	2	No	OBL
	131	= Total Cover	

Woody Vine Stratum (Plot size: 30 ft radius)			
1.			
2.			
	0	= Total Cover	

Dominance Test worksheet:

Number of Dominant Species That are OBL, FACW, or 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

- ☐ 1-Rapid Test for Hydrophytic Vegetation
- ☑ 2-Dominance Test is >50%
- ☐ 3-Prevalence Index is < or =3.0[1]
- ☐ 4-Morphological Adaptations[1] (Provide supporting data in Remarks or on a 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**

Remarks: (Include photo numbers here or on a separate sheet.)

SOIL

Sampling Point: 7B

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 Features %	Type[1]	Loc[2]	Texture	Remarks
0-13+	N 3/	100					SICL	Disturbed profile

[1] Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. [2] Location: PL=Pore Lining, M=Matrix

Hydric Soil Indicators:

- ☐ Histosol (A1)
- ☐ Histic Epipedon (A2)
- ☐ Black Histic (A3)
- ☐ Hydrogen Sulfide (A4)
- ☐ Stratified Layers (A5)
- ☐ 2 cm Muck (A10)
- ☐ Depleted Below Dark Surface (A11)
- ☐ Thick Dark Surface (A12)
- ☐ Sandy Mucky Mineral (S1)
- ☐ 5 cm Mucky Peat or Peat (S3)
- ☐ 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)

Indicators for Problematic Hydric Soils[3]:

- ☐ Coast Prairie Redox (A16)
- ☐ Dark Surface (S7)
- ☐ Iron-Manganese Masses (F12)
- ☐ Very Shallow Dark Surface (TF12)
- ☐ Other (Explain in Remarks)

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

Restrictive Layer (if observed):

Type: _____

Depth (inches): _____

Hydric Soil Present? **No**

Remarks:

HYDROLOGY

Wetland Hydrology Indicators:

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

- ☐ Surface Water (A1)
- ☐ High Water Table (A2)
- ☐ Saturation (A3)
- ☐ Water Marks (B1)
- ☐ Sediment Deposits (B2)
- ☐ Drift Deposits (B3)
- ☐ Algal Mat or Crust (B4)
- ☐ Iron Deposits (B5)
- ☐ Inundation Visible on Aerial Imagery (B7)
- ☐ Sparsely Vegetated Concave Surface (B8)
- ☐ Water-Stained Leaves (B9)
- ☐ Aquatic Fauna (B13)
- ☐ True Aquatic Plants (B14)
- ☐ Hydrogen Sulfide Odor (C1)
- ☐ Oxidized Rhizospheres on Living Roots (C3)
- ☐ Presence of Reduced Iron (C4)
- ☐ Recent Iron Reduction in Tilled Soils (C6)
- ☐ Thin Muck Surface (C7)
- ☐ Gauge or Well Data (D9)
- ☐ Other (Explain in Remarks)

Secondary Indicators (minimum of two is required)

- ☐ Surface Soil Cracks (B6)
- ☐ Drainage Patterns (B10)
- ☐ Dry-Season Water Table (C2)
- ☐ Crayfish Burrows (C8)
- ☐ Saturation Visible on Aerial Imagery (C9)
- ☐ Stunted or Stressed Plants (D1)
- ☐ Geomorphic Position (D2)
- ☐ FAC-Neutral Test (D5)

Field Observations:

Surface Water Present? No Depth (inches): _____

Water Table Present? No Depth (inches): _____

Saturation Present? (includes capillary fringe) No Depth (inches): _____

Wetland Hydrology Present? **No**

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

Remarks:

WETLAND DETERMINATION DATA FORM - Midwest Region

Project/Site: US 30 (FAP 349) (Baseline Road) City/County: Kane Sampling Date 6/25/2013

Applicant/Owner: IDOT District 1 State: IL Sampling Point 8A

Investigator(s): Wiesbrook, Marcum, and Beas Section, Township, Range: Sec 31, T38N, R8E

Landform (hillslope, terrace, etc.): Depression Local relief (concave, convex, none): Concave

Slope (%): 0 Lat: 41.72456 Long: -88.36656 Datum: NAD 83

Soil Map Unit Name: Drummer SICL, 0-2% slopes NWI classification: U

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

Are Vegetation No, Soil No, or Hydrology No significantly disturbed? Are "Normal Circumstances" present? Yes

Are Vegetation No, Soil No, or Hydrology No 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	**Is the Sampled Area within a Wetland?**	**Yes**
Hydric Soil Present?	Yes		
Wetland Hydrology Present?	Yes		

Remarks: Community type is forested wetland.

VEGETATION - Use scientific names of plants.

Tree Stratum (Plot size: 30 ft radius)	Absolute % Cover	Dominant Species?	Indicator Status
1. *Ulmus pumila*	35	Yes	UPL
2. *Acer saccharinum*	20	Yes	FACW
3. *Acer negundo*	3	No	FAC
4.			
5.			
	58	= Total Cover	
Sapling/Shrub Stratum (Plot size: 15 ft radius)			
1. *Acer negundo*	1	No	FAC
2.			
3.			
4.			
5.			
	1	= Total Cover	
Herb Stratum (Plot size: 5 ft radius)			
1. *Polygonum punctatum*	75	Yes	OBL
2. *Solanum americanum*	1	No	FACU
3.			
4.			
5.			
6.			
7.			
8.			
9.			
10.			
	76	= Total Cover	
Woody Vine Stratum (Plot size: 30 ft radius)			
1.			
2.			
	0	= Total Cover	

Dominance Test worksheet:

Number of Dominant Species That are OBL, FACW, or 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

- ☐ 1-Rapid Test for Hydrophytic Vegetation
- ☑ 2-Dominance Test is >50%
- ☐ 3-Prevalence Index is < or =3.0[1]
- ☐ 4-Morphological Adaptations[1] (Provide supporting data in Remarks or on a 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**

Remarks: (Include photo numbers here or on a separate sheet.)

SOIL

Sampling Point: 8A

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 2/1	100					SICL	
16-24+	2.5Y 4/1	98	10YR 3/6	2	C	M	SICL	

[1] Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. [2] Location: PL=Pore Lining, M=Matrix

Hydric Soil Indicators:

- ☐ Histosol (A1)
- ☐ Histic Epipedon (A2)
- ☐ Black Histic (A3)
- ☐ Hydrogen Sulfide (A4)
- ☐ Stratified Layers (A5)
- ☐ 2 cm Muck (A10)
- ☐ Depleted Below Dark Surface (A11)
- ☑ Thick Dark Surface (A12)
- ☐ Sandy Mucky Mineral (S1)
- ☐ 5 cm Mucky Peat or Peat (S3)
- ☐ 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)

Indicators for Problematic Hydric Soils[3]:

- ☐ Coast Prairie Redox (A16)
- ☐ Dark Surface (S7)
- ☐ Iron-Manganese Masses (F12)
- ☐ Very Shallow Dark Surface (TF12)
- ☐ Other (Explain in Remarks)

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

Restrictive Layer (if observed):

Type: _____

Depth (inches): _____

Hydric Soil Present? **Yes**

Remarks:

HYDROLOGY

Wetland Hydrology Indicators:

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

- ☐ Surface Water (A1)
- ☐ High Water Table (A2)
- ☐ Saturation (A3)
- ☐ Water Marks (B1)
- ☐ Sediment Deposits (B2)
- ☐ Drift Deposits (B3)
- ☐ Algal Mat or Crust (B4)
- ☐ Iron Deposits (B5)
- ☐ Inundation Visible on Aerial Imagery (B7)
- ☑ Sparsely Vegetated Concave Surface (B8)
- ☐ Water-Stained Leaves (B9)
- ☐ Aquatic Fauna (B13)
- ☐ True Aquatic Plants (B14)
- ☐ Hydrogen Sulfide Odor (C1)
- ☐ Oxidized Rhizospheres on Living Roots (C3)
- ☐ Presence of Reduced Iron (C4)
- ☐ Recent Iron Reduction in Tilled Soils (C6)
- ☐ Thin Muck Surface (C7)
- ☐ Gauge or Well Data (D9)
- ☐ Other (Explain in Remarks)

Secondary Indicators (minimum of two is required)

- ☐ Surface Soil Cracks (B6)
- ☐ Drainage Patterns (B10)
- ☐ Dry-Season Water Table (C2)
- ☐ Crayfish Burrows (C8)
- ☐ Saturation Visible on Aerial Imagery (C9)
- ☐ Stunted or Stressed Plants (D1)
- ☑ Geomorphic Position (D2)
- ☑ FAC-Neutral Test (D5)

Field Observations:

Surface Water Present? No Depth (inches): _____

Water Table Present? No Depth (inches): _____

Saturation Present? (includes capillary fringe) No Depth (inches): _____

Wetland Hydrology Present? **Yes**

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

Remarks:

WETLAND DETERMINATION DATA FORM - Midwest Region

Project/Site: US 30 (FAP 349) (Baseline Road) City/County: Kane Sampling Date 6/25/2013

Applicant/Owner: IDOT District 1 State: IL Sampling Point 8B

Investigator(s): Wiesbrook, Marcum, and Beas Section, Township, Range: Sec 31, T38N, R8E

Landform (hillslope, terrace, etc.): Outwash plain Local relief (concave, convex, none): None

Slope (%): 0 Lat: 41.72516 Long: -88.36609 Datum: NAD 83

Soil Map Unit Name: Drummer SICL, 0-2% slopes NWI classification: U

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

Are Vegetation No, Soil No, or Hydrology No significantly disturbed? Are "Normal Circumstances" present? Yes

Are Vegetation No, Soil No, or Hydrology No 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?	No	**Is the Sampled Area within a Wetland?** **No**
Hydric Soil Present?	Yes	
Wetland Hydrology Present?	No	

Remarks: Community type is upland forest.

VEGETATION - Use scientific names of plants.

Tree Stratum (Plot size: 30 ft radius)	Absolute % Cover	Dominant Species?	Indicator Status
1. *Ulmus pumila*	40	Yes	UPL
2. *Acer saccharinum*	25	Yes	FACW
3. *Ulmus americana*	10	No	FACW
4.			
5.			
	75	= Total Cover	
Sapling/Shrub Stratum (Plot size: 15 ft radius)			
1. *Rhamnus cathartica*	25	Yes	FAC
2. *Morus alba*	1	No	FAC
3.			
4.			
5.			
	26	= Total Cover	
Herb Stratum (Plot size: 5 ft radius)			
1. *Solanum americanum*	25	Yes	FACU
2. *Phytolacca americana*	5	No	FACU
3. *Circaea lutetiana var. canadensis*	4	No	FACU
4. *Aster simplex*	2	No	FAC
5. *Polygonum cespitosum var. longisetum*	2	No	UPL
6. *Vitis riparia*	2	No	FACW
7. *Acer saccharinum*	1	No	FACW
8.			
9.			
10.			
	41	= Total Cover	
Woody Vine Stratum (Plot size: 30 ft radius)			
1.			
2.			
	0	= Total Cover	

Dominance Test worksheet:

Number of Dominant Species That are OBL, FACW, or 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		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

- ☐ 1-Rapid Test for Hydrophytic Vegetation
- ☐ 2-Dominance Test is >50%
- ☐ 3-Prevalence Index is < or =3.0[1]
- ☐ 4-Morphological Adaptations[1] (Provide supporting data in Remarks or on a 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? **No**

Remarks: (Include photo numbers here or on a separate sheet.)

SOIL

Sampling Point: 8B

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
0-11	10YR 2/1	100					SICL	
11-17+	2.5Y 4/1	98	10YR 3/6	2	C	M	SICL	

[1] Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. [2] Location: PL=Pore Lining, M=Matrix

Hydric Soil Indicators:

- ☐ Histosol (A1)
- ☐ Histic Epipedon (A2)
- ☐ Black Histic (A3)
- ☐ Hydrogen Sulfide (A4)
- ☐ Stratified Layers (A5)
- ☐ 2 cm Muck (A10)
- ☑ Depleted Below Dark Surface (A11)
- ☐ Thick Dark Surface (A12)
- ☐ Sandy Mucky Mineral (S1)
- ☐ 5 cm Mucky Peat or Peat (S3)
- ☐ 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)

Indicators for Problematic Hydric Soils[3]:

- ☐ Coast Prairie Redox (A16)
- ☐ Dark Surface (S7)
- ☐ Iron-Manganese Masses (F12)
- ☐ Very Shallow Dark Surface (TF12)
- ☐ Other (Explain in Remarks)

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

Restrictive Layer (if observed):

Type: _____

Depth (inches): _____

Hydric Soil Present? **Yes**

Remarks:

HYDROLOGY

Wetland Hydrology Indicators:

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

- ☐ Surface Water (A1)
- ☐ High Water Table (A2)
- ☐ Saturation (A3)
- ☐ Water Marks (B1)
- ☐ Sediment Deposits (B2)
- ☐ Drift Deposits (B3)
- ☐ Algal Mat or Crust (B4)
- ☐ Iron Deposits (B5)
- ☐ Inundation Visible on Aerial Imagery (B7)
- ☐ Sparsely Vegetated Concave Surface (B8)
- ☐ Water-Stained Leaves (B9)
- ☐ Aquatic Fauna (B13)
- ☐ True Aquatic Plants (B14)
- ☐ Hydrogen Sulfide Odor (C1)
- ☐ Oxidized Rhizospheres on Living Roots (C3)
- ☐ Presence of Reduced Iron (C4)
- ☐ Recent Iron Reduction in Tilled Soils (C6)
- ☐ Thin Muck Surface (C7)
- ☐ Gauge or Well Data (D9)
- ☐ Other (Explain in Remarks)

Secondary Indicators (minimum of two is required)

- ☐ Surface Soil Cracks (B6)
- ☐ Drainage Patterns (B10)
- ☐ Dry-Season Water Table (C2)
- ☐ Crayfish Burrows (C8)
- ☐ Saturation Visible on Aerial Imagery (C9)
- ☐ Stunted or Stressed Plants (D1)
- ☐ Geomorphic Position (D2)
- ☐ FAC-Neutral Test (D5)

Field Observations:

Surface Water Present? No Depth (inches): _____

Water Table Present? No Depth (inches): _____

Saturation Present? (includes capillary fringe) No Depth (inches): _____

Wetland Hydrology Present? **No**

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

Remarks:

WETLAND DETERMINATION DATA FORM - Midwest Region

Project/Site: US 30 (FAP 349) (Baseline Road) City/County: Kane Sampling Date 6/25/2013

Applicant/Owner: IDOT District 1 State: IL Sampling Point 9A

Investigator(s): Wiesbrook, Marcum, and Beas Section, Township, Range: Sec 31, T38N, R8E

Landform (hillslope, terrace, etc.): Excavated depression Local relief (concave, convex, none): Concave

Slope (%): 0 Lat: 41.72608 Long: -88.36088 Datum: NAD 83

Soil Map Unit Name: Water NWI classification: PUBGx

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

Are Vegetation No, Soil No, or Hydrology No significantly disturbed? Are "Normal Circumstances" present? Yes

Are Vegetation No, Soil No, or Hydrology No 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? _____ Hydric Soil Present? _____ Wetland Hydrology Present? _____	**Is the Sampled Area within a Wetland?** **No**

Remarks: Community type is deepwater aquatic habitat.
This site is a deepwater aquatic habitat with an average water depth greater than 2 m. According to the Corps of Engineers Wetlands Delineation Manual (Environmental Laboratory 1987) it is therefore not a wetland and the remaining fields on this form are not appropriate to describe this site.

VEGETATION - Use scientific names of plants.

Tree Stratum (Plot size:)	Absolute % Cover	Dominant Species?	Indicator Status
1.			
2.			
3.			
4.			
5.			
	_____ = Total Cover		

Sapling/Shrub Stratum (Plot size:)			
1.			
2.			
3.			
4.			
5.			
	_____ = Total Cover		

Herb Stratum (Plot size:)			
1.			
2.			
3.			
4.			
5.			
6.			
7.			
8.			
9.			
10.			
	_____ = Total Cover		

Woody Vine Stratum (Plot size:)			
1.			
2.			
	_____ = Total Cover		

Dominance Test worksheet:

Number of Dominant Species That are OBL, FACW, or FAC: _____ (A)

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

Percent of Dominant Species That are OBL, FACW, or FAC: _____ (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

- ☐ 1-Rapid Test for Hydrophytic Vegetation
- ☐ 2-Dominance Test is >50%
- ☐ 3-Prevalence Index is < or =3.0[1]
- ☐ 4-Morphological Adaptations[1] (Provide supporting data in Remarks or on a 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? _____

Remarks: (Include photo numbers here or on a separate sheet.)

SOIL

Sampling Point: 9A

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 Features %	Type[1]	Loc[2]	Texture	Remarks

[1] Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. [2] Location: PL=Pore Lining, M=Matrix

Hydric Soil Indicators:

- ☐ Histosol (A1)
- ☐ Histic Epipedon (A2)
- ☐ Black Histic (A3)
- ☐ Hydrogen Sulfide (A4)
- ☐ Stratified Layers (A5)
- ☐ 2 cm Muck (A10)
- ☐ Depleted Below Dark Surface (A11)
- ☐ Thick Dark Surface (A12)
- ☐ Sandy Mucky Mineral (S1)
- ☐ 5 cm Mucky Peat or Peat (S3)
- ☐ 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)

Indicators for Problematic Hydric Soils[3]:

- ☐ Coast Prairie Redox (A16)
- ☐ Dark Surface (S7)
- ☐ Iron-Manganese Masses (F12)
- ☐ Very Shallow Dark Surface (TF12)
- ☐ Other (Explain in Remarks)

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

Restrictive Layer (if observed):

Type: _____

Depth (inches): _____

Hydric Soil Present? _____

Remarks:

HYDROLOGY

Wetland Hydrology Indicators:

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

- ☐ Surface Water (A1)
- ☐ High Water Table (A2)
- ☐ Saturation (A3)
- ☐ Water Marks (B1)
- ☐ Sediment Deposits (B2)
- ☐ Drift Deposits (B3)
- ☐ Algal Mat or Crust (B4)
- ☐ Iron Deposits (B5)
- ☐ Inundation Visible on Aerial Imagery (B7)
- ☐ Sparsely Vegetated Concave Surface (B8)
- ☐ Water-Stained Leaves (B9)
- ☐ Aquatic Fauna (B13)
- ☐ True Aquatic Plants (B14)
- ☐ Hydrogen Sulfide Odor (C1)
- ☐ Oxidized Rhizospheres on Living Roots (C3)
- ☐ Presence of Reduced Iron (C4)
- ☐ Recent Iron Reduction in Tilled Soils (C6)
- ☐ Thin Muck Surface (C7)
- ☐ Gauge or Well Data (D9)
- ☐ Other (Explain in Remarks)

Secondary Indicators (minimum of two is required)

- ☐ Surface Soil Cracks (B6)
- ☐ Drainage Patterns (B10)
- ☐ Dry-Season Water Table (C2)
- ☐ Crayfish Burrows (C8)
- ☐ Saturation Visible on Aerial Imagery (C9)
- ☐ Stunted or Stressed Plants (D1)
- ☐ Geomorphic Position (D2)
- ☐ FAC-Neutral Test (D5)

Field Observations:

Surface Water Present? No Depth (inches): _____

Water Table Present? No Depth (inches): _____

Saturation Present? (includes capillary fringe) No Depth (inches): _____

Wetland Hydrology Present? _____

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

Remarks:

WETLAND DETERMINATION DATA FORM - Midwest Region

Project/Site: US 30 (FAP 349) (Baseline Road) City/County: Kane Sampling Date 6/25/2013

Applicant/Owner: IDOT District 1 State: IL Sampling Point 10A

Investigator(s): Wiesbrook, Marcum, and Beas Section, Township, Range: Sec 31, T38N, R8E

Landform (hillslope, terrace, etc.): Excavated depression Local relief (concave, convex, none): Concave

Slope (%): 0 Lat: 41.72631 Long: -88.36036 Datum: NAD 83

Soil Map Unit Name: Water NWI classification: PUBGx

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

Are Vegetation No, Soil No, or Hydrology No significantly disturbed? Are "Normal Circumstances" present? Yes

Are Vegetation No, Soil No, or Hydrology No 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? _____	
Hydric Soil Present? _____	**Is the Sampled Area within a Wetland?** **No**
Wetland Hydrology Present? _____	

Remarks: Community type is deepwater aquatic habitat.
This site is a deepwater aquatic habitat with an average water depth greater than 2 m. According to the Corps of Engineers Wetlands Delineation Manual (Environmental Laboratory 1987) it is therefore not a wetland and the remaining fields on this form are not appropriate to describe this site.

VEGETATION - Use scientific names of plants.

Tree Stratum (Plot size:)	Absolute % Cover	Dominant Species?	Indicator Status
1.			
2.			
3.			
4.			
5.			
	_____ = Total Cover		
Sapling/Shrub Stratum (Plot size:)			
1.			
2.			
3.			
4.			
5.			
	_____ = Total Cover		
Herb Stratum (Plot size:)			
1.			
2.			
3.			
4.			
5.			
6.			
7.			
8.			
9.			
10.			
	_____ = Total Cover		
Woody Vine Stratum (Plot size:)			
1.			
2.			
	_____ = Total Cover		

Dominance Test worksheet:

Number of Dominant Species That are OBL, FACW, or FAC: _____ (A)

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

Percent of Dominant Species That are OBL, FACW, or FAC: _____ (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

- ☐ 1-Rapid Test for Hydrophytic Vegetation
- ☐ 2-Dominance Test is >50%
- ☐ 3-Prevalence Index is < or =3.0[1]
- ☐ 4-Morphological Adaptations[1] (Provide supporting data in Remarks or on a 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? _____

Remarks: (Include photo numbers here or on a separate sheet.)

SOIL

Sampling Point: 10A

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 Features %	Type[1]	Loc[2]	Texture	Remarks

[1] Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. [2] Location: PL=Pore Lining, M=Matrix

Hydric Soil Indicators:

- ☐ Histosol (A1)
- ☐ Histic Epipedon (A2)
- ☐ Black Histic (A3)
- ☐ Hydrogen Sulfide (A4)
- ☐ Stratified Layers (A5)
- ☐ 2 cm Muck (A10)
- ☐ Depleted Below Dark Surface (A11)
- ☐ Thick Dark Surface (A12)
- ☐ Sandy Mucky Mineral (S1)
- ☐ 5 cm Mucky Peat or Peat (S3)
- ☐ 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)

Indicators for Problematic Hydric Soils[3]:

- ☐ Coast Prairie Redox (A16)
- ☐ Dark Surface (S7)
- ☐ Iron-Manganese Masses (F12)
- ☐ Very Shallow Dark Surface (TF12)
- ☐ Other (Explain in Remarks)

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

Restrictive Layer (if observed):

Type: _____

Depth (inches): _____

Hydric Soil Present? _____

Remarks:

HYDROLOGY

Wetland Hydrology Indicators:

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

- ☐ Surface Water (A1)
- ☐ High Water Table (A2)
- ☐ Saturation (A3)
- ☐ Water Marks (B1)
- ☐ Sediment Deposits (B2)
- ☐ Drift Deposits (B3)
- ☐ Algal Mat or Crust (B4)
- ☐ Iron Deposits (B5)
- ☐ Inundation Visible on Aerial Imagery (B7)
- ☐ Sparsely Vegetated Concave Surface (B8)
- ☐ Water-Stained Leaves (B9)
- ☐ Aquatic Fauna (B13)
- ☐ True Aquatic Plants (B14)
- ☐ Hydrogen Sulfide Odor (C1)
- ☐ Oxidized Rhizospheres on Living Roots (C3)
- ☐ Presence of Reduced Iron (C4)
- ☐ Recent Iron Reduction in Tilled Soils (C6)
- ☐ Thin Muck Surface (C7)
- ☐ Gauge or Well Data (D9)
- ☐ Other (Explain in Remarks)

Secondary Indicators (minimum of two is required)

- ☐ Surface Soil Cracks (B6)
- ☐ Drainage Patterns (B10)
- ☐ Dry-Season Water Table (C2)
- ☐ Crayfish Burrows (C8)
- ☐ Saturation Visible on Aerial Imagery (C9)
- ☐ Stunted or Stressed Plants (D1)
- ☐ Geomorphic Position (D2)
- ☐ FAC-Neutral Test (D5)

Field Observations:

Surface Water Present? No Depth (inches): _____

Water Table Present? No Depth (inches): _____

Saturation Present? (includes capillary fringe) No Depth (inches): _____

Wetland Hydrology Present? _____

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

Remarks:

WETLAND DETERMINATION DATA FORM - Midwest Region

Project/Site: US 30 (FAP 349) (Baseline Road) City/County: Kane Sampling Date 7/9/2013

Applicant/Owner: IDOT District 1 State: IL Sampling Point 11A

Investigator(s): Wiesbrook and Marcum Section, Township, Range: Sec 31, T38N, R8E

Landform (hillslope, terrace, etc.): Excavated depression Local relief (concave, convex, none): Concave

Slope (%): <1 Lat: 41.72699 Long: -88.36150 Datum: NAD 83

Soil Map Unit Name: NRCS mapped as Orthents, loamy, undulating; revised to Aquent NWI classification: PSS1C

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

Are Vegetation No , Soil No , or Hydrology No significantly disturbed? Are "Normal Circumstances" present? Yes

Are Vegetation No , Soil No , or Hydrology No 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	**Is the Sampled Area within a Wetland?**	**Yes**
Hydric Soil Present?	Yes		
Wetland Hydrology Present?	Yes		

Remarks: Community type is forested wetland.

VEGETATION - Use scientific names of plants.

Tree Stratum (Plot size: 30 ft radius)	Absolute % Cover	Dominant Species?	Indicator Status
1. *Populus deltoides*	20	Yes	FAC
2. *Rhamnus cathartica*	4	No	FAC
3.			
4.			
5.			
	24	= Total Cover	
Sapling/Shrub Stratum (Plot size: 15 ft radius)			
1. *Sambucus canadensis*	15	Yes	FACW
2. *Rhamnus cathartica*	10	Yes	FAC
3.			
4.			
5.			
	25	= Total Cover	
Herb Stratum (Plot size: 5 ft radius)			
1. *Lythrum salicaria*	35	Yes	OBL
2. *Impatiens capensis*	25	Yes	FACW
3. *Boehmeria cylindrica*	10	No	OBL
4. *Solanum dulcamara*	5	No	FAC
5. *Alliaria petiolata*	1	No	FAC
6. *Pilea pumila*	1	No	FACW
7.			
8.			
9.			
10.			
	77	= Total Cover	
Woody Vine Stratum (Plot size: 30 ft radius)			
1. *Solanum dulcamara*	3	Yes	FAC
2. *Vitis riparia*	2	Yes	FACW
	5	= Total Cover	

Dominance Test worksheet:

Number of Dominant Species That are OBL, FACW, or FAC: 7 (A)

Total Number of Dominant Species Across All Strata: 7 (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

- ☐ 1-Rapid Test for Hydrophytic Vegetation
- ☑ 2-Dominance Test is >50%
- ☐ 3-Prevalence Index is < or =3.0[1]
- ☐ 4-Morphological Adaptations[1] (Provide supporting data in Remarks or on a 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**

Remarks: (Include photo numbers here or on a separate sheet.)

SOIL

Sampling Point: 11A

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 Features %	Type[1]	Loc[2]	Texture	Remarks
0-8	10YR 4/1	95	7.5YR 4/4	5	C	M	L	
8-13+	10YR 4/1	90	7.5YR 4/4	10	C	M	L	

[1] Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. [2] Location: PL=Pore Lining, M=Matrix

Hydric Soil Indicators:

- ☐ Histosol (A1)
- ☐ Histic Epipedon (A2)
- ☐ Black Histic (A3)
- ☐ Hydrogen Sulfide (A4)
- ☐ Stratified Layers (A5)
- ☐ 2 cm Muck (A10)
- ☐ Depleted Below Dark Surface (A11)
- ☐ Thick Dark Surface (A12)
- ☐ Sandy Mucky Mineral (S1)
- ☐ 5 cm Mucky Peat or Peat (S3)
- ☐ 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)

Indicators for Problematic Hydric Soils[3]:

- ☐ Coast Prairie Redox (A16)
- ☐ Dark Surface (S7)
- ☐ Iron-Manganese Masses (F12)
- ☐ Very Shallow Dark Surface (TF12)
- ☐ Other (Explain in Remarks)

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

Restrictive Layer (if observed):

Type: _____

Depth (inches): _____

Hydric Soil Present? **Yes**

Remarks:

HYDROLOGY

Wetland Hydrology Indicators:

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

- ☑ Surface Water (A1)
- ☑ High Water Table (A2)
- ☑ Saturation (A3)
- ☐ Water Marks (B1)
- ☐ Sediment Deposits (B2)
- ☐ Drift Deposits (B3)
- ☐ Algal Mat or Crust (B4)
- ☐ Iron Deposits (B5)
- ☑ Inundation Visible on Aerial Imagery (B7)
- ☑ Sparsely Vegetated Concave Surface (B8)
- ☑ Water-Stained Leaves (B9)
- ☐ Aquatic Fauna (B13)
- ☐ True Aquatic Plants (B14)
- ☐ Hydrogen Sulfide Odor (C1)
- ☐ Oxidized Rhizospheres on Living Roots (C3)
- ☐ Presence of Reduced Iron (C4)
- ☐ Recent Iron Reduction in Tilled Soils (C6)
- ☐ Thin Muck Surface (C7)
- ☐ Gauge or Well Data (D9)
- ☐ Other (Explain in Remarks)

Secondary Indicators (minimum of two is required)

- ☐ Surface Soil Cracks (B6)
- ☐ Drainage Patterns (B10)
- ☐ Dry-Season Water Table (C2)
- ☐ Crayfish Burrows (C8)
- ☐ Saturation Visible on Aerial Imagery (C9)
- ☐ Stunted or Stressed Plants (D1)
- ☑ Geomorphic Position (D2)
- ☑ FAC-Neutral Test (D5)

Field Observations:

Surface Water Present? Yes Depth (inches): <12

Water Table Present? Yes Depth (inches): 0

Saturation Present? (includes capillary fringe) Yes Depth (inches): 0

Wetland Hydrology Present? **Yes**

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

Remarks:

WETLAND DETERMINATION DATA FORM - Midwest Region

Project/Site: US 30 (FAP 349) (Baseline Road) City/County: Kane Sampling Date 7/9/2013

Applicant/Owner: IDOT District 1 State: IL Sampling Point 11B

Investigator(s): Wiesbrook and Marcum Section, Township, Range: Sec 31, T38N, R8E

Landform (hillslope, terrace, etc.): Spoil pile Local relief (concave, convex, none): Convex

Slope (%): 3 Lat: 41.72697 Long: -88.36118 Datum: NAD 83

Soil Map Unit Name: Orthents, loamy, undulating NWI classification: PSS1C

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

Are Vegetation No, Soil No, or Hydrology No significantly disturbed? Are "Normal Circumstances" present? Yes

Are Vegetation No, Soil No, or Hydrology No 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	**Is the Sampled Area within a Wetland?**	**No**
Hydric Soil Present?	No		
Wetland Hydrology Present?	No		

Remarks: Community type is upland forest.

VEGETATION - Use scientific names of plants.

Tree Stratum (Plot size: 30 ft radius)	Absolute % Cover	Dominant Species?	Indicator Status
1. *Acer negundo*	40	Yes	FAC
2. *Rhamnus cathartica*	10	No	FAC
3. *Populus deltoides*	5	No	FAC
4.			
5.			
	55	= Total Cover	
Sapling/Shrub Stratum (Plot size: 15 ft radius)			
1. *Rhamnus cathartica*	45	Yes	FAC
2. *Acer negundo*	2	No	FAC
3.			
4.			
5.			
	47	= Total Cover	
Herb Stratum (Plot size: 5 ft radius)			
1. *Glechoma hederacea*	10	Yes	FACU
2. *Parthenocissus quinquefolia*	10	Yes	FACU
3. *Solanum dulcamara*	10	Yes	FAC
4. *Alliaria petiolata*	5	No	FAC
5. *Rhamnus cathartica*	2	No	FAC
6. *Cirsium vulgare*	1	No	FACU
7. *Ulmus americana*	1	No	FACW
8.			
9.			
10.			
	39	= Total Cover	
Woody Vine Stratum (Plot size: 30 ft radius)			
1. *Solanum dulcamara*	2	No	FAC
2.			
	2	= Total Cover	

Dominance Test worksheet:

Number of Dominant Species That are OBL, FACW, or FAC: 3 (A)

Total Number of Dominant Species Across All Strata: 5 (B)

Percent of Dominant Species That are OBL, FACW, or FAC: 60% (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

- ☐ 1-Rapid Test for Hydrophytic Vegetation
- ☑ 2-Dominance Test is >50%
- ☐ 3-Prevalence Index is < or =3.0[1]
- ☐ 4-Morphological Adaptations[1] (Provide supporting data in Remarks or on a 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**

Remarks: (Include photo numbers here or on a separate sheet.)

SOIL

Sampling Point: 11B

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
0-10	10YR 4/2	99	10YR 5/6	1	C	M	L	
10-13+	10YR 2/1	100					SICL	

[1] Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. [2] Location: PL=Pore Lining, M=Matrix

Hydric Soil Indicators:

- ☐ Histosol (A1)
- ☐ Histic Epipedon (A2)
- ☐ Black Histic (A3)
- ☐ Hydrogen Sulfide (A4)
- ☐ Stratified Layers (A5)
- ☐ 2 cm Muck (A10)
- ☐ Depleted Below Dark Surface (A11)
- ☐ Thick Dark Surface (A12)
- ☐ Sandy Mucky Mineral (S1)
- ☐ 5 cm Mucky Peat or Peat (S3)
- ☐ 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)

Indicators for Problematic Hydric Soils[3]:

- ☐ Coast Prairie Redox (A16)
- ☐ Dark Surface (S7)
- ☐ Iron-Manganese Masses (F12)
- ☐ Very Shallow Dark Surface (TF12)
- ☐ Other (Explain in Remarks)

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

Restrictive Layer (if observed):

Type: _____

Depth (inches): _____

Hydric Soil Present? **No**

Remarks:

HYDROLOGY

Wetland Hydrology Indicators:

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

- ☐ Surface Water (A1)
- ☐ High Water Table (A2)
- ☐ Saturation (A3)
- ☐ Water Marks (B1)
- ☐ Sediment Deposits (B2)
- ☐ Drift Deposits (B3)
- ☐ Algal Mat or Crust (B4)
- ☐ Iron Deposits (B5)
- ☐ Inundation Visible on Aerial Imagery (B7)
- ☐ Sparsely Vegetated Concave Surface (B8)
- ☐ Water-Stained Leaves (B9)
- ☐ Aquatic Fauna (B13)
- ☐ True Aquatic Plants (B14)
- ☐ Hydrogen Sulfide Odor (C1)
- ☐ Oxidized Rhizospheres on Living Roots (C3)
- ☐ Presence of Reduced Iron (C4)
- ☐ Recent Iron Reduction in Tilled Soils (C6)
- ☐ Thin Muck Surface (C7)
- ☐ Gauge or Well Data (D9)
- ☐ Other (Explain in Remarks)

Secondary Indicators (minimum of two is required)

- ☐ Surface Soil Cracks (B6)
- ☐ Drainage Patterns (B10)
- ☐ Dry-Season Water Table (C2)
- ☐ Crayfish Burrows (C8)
- ☐ Saturation Visible on Aerial Imagery (C9)
- ☐ Stunted or Stressed Plants (D1)
- ☐ Geomorphic Position (D2)
- ☐ FAC-Neutral Test (D5)

Field Observations:

Surface Water Present? No Depth (inches): _____

Water Table Present? No Depth (inches): _____

Saturation Present? (includes capillary fringe) No Depth (inches): _____

Wetland Hydrology Present? **No**

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

Remarks:

WETLAND DETERMINATION DATA FORM - Midwest Region

Project/Site: US 30 (FAP 349) (Baseline Road) City/County: Kane Sampling Date 7/9/2013

Applicant/Owner: IDOT District 1 State: IL Sampling Point 11C

Investigator(s): Wiesbrook and Marcum Section, Township, Range: Sec 31, T38N, R8E

Landform (hillslope, terrace, etc.): Excavated depression Local relief (concave, convex, none): Concave

Slope (%): <2 Lat: 41.72703 Long: -88.35895 Datum: NAD 83

Soil Map Unit Name: NRCS mapped as Orthents, loamy, undulating; revised to Aquent NWI classification: PFO1C

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

Are Vegetation No , Soil No , or Hydrology No significantly disturbed? Are "Normal Circumstances" present? Yes

Are Vegetation No , Soil No , or Hydrology No 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	**Is the Sampled Area within a Wetland?**	**Yes**
Hydric Soil Present?	Yes		
Wetland Hydrology Present?	Yes		

Remarks: Community type is forested wetland.

VEGETATION - Use scientific names of plants.

Tree Stratum (Plot size: 30 ft radius)	Absolute % Cover	Dominant Species?	Indicator Status
1. *Acer saccharinum*	25	Yes	FACW
2. *Rhamnus cathartica*	5	No	FAC
3.			
4.			
5.			
	30	= Total Cover	
Sapling/Shrub Stratum (Plot size: 15 ft radius)			
1. *Rhamnus cathartica*	45	Yes	FAC
2. *Rhamnus frangula*	15	Yes	FACW
3. *Acer negundo*	5	No	FAC
4.			
5.			
	65	= Total Cover	
Herb Stratum (Plot size: 5 ft radius)			
1. *Phalaris arundinacea*	15	Yes	FACW
2. *Acer saccharinum*	2	No	FACW
3. *Rhamnus cathartica*	2	No	FAC
4. *Eupatorium serotinum*	1	No	FAC
5.			
6.			
7.			
8.			
9.			
10.			
	20	= Total Cover	
Woody Vine Stratum (Plot size: 30 ft radius)			
1. *Solanum dulcamara*	5	Yes	FAC
2.			
	5	= Total Cover	

Dominance Test worksheet:

Number of Dominant Species That are OBL, FACW, or FAC: 5 (A)

Total Number of Dominant Species Across All Strata: 5 (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

- ☐ 1-Rapid Test for Hydrophytic Vegetation
- ☑ 2-Dominance Test is >50%
- ☐ 3-Prevalence Index is < or =3.0[1]
- ☐ 4-Morphological Adaptations[1] (Provide supporting data in Remarks or on a 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**

Remarks: (Include photo numbers here or on a separate sheet.)

SOIL

Sampling Point: 11C

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 Features %	Type[1]	Loc[2]	Texture	Remarks
0-12+	10YR 4/1	93	10YR 4/4	5	C	M	L	
0-12+			2.5Y 5/1	2	D	M		

[1] Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. [2] Location: PL=Pore Lining, M=Matrix

Hydric Soil Indicators:

- ☐ Histosol (A1)
- ☐ Histic Epipedon (A2)
- ☐ Black Histic (A3)
- ☐ Hydrogen Sulfide (A4)
- ☐ Stratified Layers (A5)
- ☐ 2 cm Muck (A10)
- ☐ Depleted Below Dark Surface (A11)
- ☐ Thick Dark Surface (A12)
- ☐ Sandy Mucky Mineral (S1)
- ☐ 5 cm Mucky Peat or Peat (S3)
- ☐ 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)

Indicators for Problematic Hydric Soils[3]:

- ☐ Coast Prairie Redox (A16)
- ☐ Dark Surface (S7)
- ☐ Iron-Manganese Masses (F12)
- ☐ Very Shallow Dark Surface (TF12)
- ☐ Other (Explain in Remarks)

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

Restrictive Layer (if observed):

Type: _____

Depth (inches): _____

Hydric Soil Present? **Yes**

Remarks:

HYDROLOGY

Wetland Hydrology Indicators:

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

- ☑ Surface Water (A1)
- ☑ High Water Table (A2)
- ☑ Saturation (A3)
- ☐ Water Marks (B1)
- ☐ Sediment Deposits (B2)
- ☐ Drift Deposits (B3)
- ☐ Algal Mat or Crust (B4)
- ☐ Iron Deposits (B5)
- ☑ Inundation Visible on Aerial Imagery (B7)
- ☑ Sparsely Vegetated Concave Surface (B8)
- ☑ Water-Stained Leaves (B9)
- ☐ Aquatic Fauna (B13)
- ☐ True Aquatic Plants (B14)
- ☐ Hydrogen Sulfide Odor (C1)
- ☐ Oxidized Rhizospheres on Living Roots (C3)
- ☐ Presence of Reduced Iron (C4)
- ☐ Recent Iron Reduction in Tilled Soils (C6)
- ☐ Thin Muck Surface (C7)
- ☐ Gauge or Well Data (D9)
- ☐ Other (Explain in Remarks)

Secondary Indicators (minimum of two is required)

- ☐ Surface Soil Cracks (B6)
- ☐ Drainage Patterns (B10)
- ☐ Dry-Season Water Table (C2)
- ☐ Crayfish Burrows (C8)
- ☐ Saturation Visible on Aerial Imagery (C9)
- ☐ Stunted or Stressed Plants (D1)
- ☑ Geomorphic Position (D2)
- ☑ FAC-Neutral Test (D5)

Field Observations:

Surface Water Present? Yes Depth (inches): <12

Water Table Present? Yes Depth (inches): 0

Saturation Present? (includes capillary fringe) Yes Depth (inches): 0

Wetland Hydrology Present? **Yes**

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

Remarks:

WETLAND DETERMINATION DATA FORM - Midwest Region

Project/Site: US 30 (FAP 349) (Baseline Road) City/County: Kane Sampling Date 7/9/2013

Applicant/Owner: IDOT District 1 State: IL Sampling Point 12A

Investigator(s): Wiesbrook and Marcum Section, Township, Range: Sec 31, T38N, R8E

Landform (hillslope, terrace, etc.): Excavated depression Local relief (concave, convex, none): Concave

Slope (%): <1 Lat: 41.72678 Long: -88.35825 Datum: NAD 83

Soil Map Unit Name: NRCS mapped as Orthents, loamy, undulating; revised to Aquent NWI classification: U

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

Are Vegetation No, Soil No, or Hydrology No significantly disturbed? Are "Normal Circumstances" present? Yes

Are Vegetation No, Soil No, or Hydrology No 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	**Is the Sampled Area within a Wetland?**	**Yes**
Hydric Soil Present?	Yes		
Wetland Hydrology Present?	Yes		

Remarks: Community type is marsh.

VEGETATION - Use scientific names of plants.

Tree Stratum (Plot size: 30 ft radius)	Absolute % Cover	Dominant Species?	Indicator Status
1.			
2.			
3.			
4.			
5.			
	0	= Total Cover	

Sapling/Shrub Stratum (Plot size: 15 ft radius)			
1. *Salix amygdaloides*	3	No	FACW
2.			
3.			
4.			
5.			
	3	= Total Cover	

Herb Stratum (Plot size: 5 ft radius)			
1. *Eleocharis erythropoda*	20	Yes	OBL
2. *Hordeum jubatum*	15	Yes	FAC
3. *Lysimachia nummularia*	15	Yes	FACW
4. *Typha angustifolia*	15	Yes	OBL
5. *Carex vulpinoidea*	10	No	FACW
6. *Lythrum salicaria*	10	No	OBL
7. *Scirpus atrovirens*	10	No	OBL
8. *Poa pratensis*	8	No	FAC
9. *Agrostis alba*	5	No	FACW
10. *Carex tribuloides*	3	No	OBL
	114	= Total Cover	

Woody Vine Stratum (Plot size: 30 ft radius)		
1.		
2.		
	0	= Total Cover

Dominance Test worksheet:

Number of Dominant Species That are OBL, FACW, or FAC: 4 (A)

Total Number of Dominant Species Across All Strata: 4 (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

- ☐ 1-Rapid Test for Hydrophytic Vegetation
- ☑ 2-Dominance Test is >50%
- ☐ 3-Prevalence Index is < or =3.0[1]
- ☐ 4-Morphological Adaptations[1] (Provide supporting data in Remarks or on a 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**

Remarks: (Include photo numbers here or on a separate sheet.)

SOIL

Sampling Point: 12A

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 Features %	Type[1]	Loc[2]	Texture	Remarks
0-12+	2.5Y 4/1	95	7.5YR 3/4	5	C	M	L/CL	

[1] Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. [2] Location: PL=Pore Lining, M=Matrix

Hydric Soil Indicators:

- ☐ Histosol (A1)
- ☐ Histic Epipedon (A2)
- ☐ Black Histic (A3)
- ☐ Hydrogen Sulfide (A4)
- ☐ Stratified Layers (A5)
- ☐ 2 cm Muck (A10)
- ☐ Depleted Below Dark Surface (A11)
- ☐ Thick Dark Surface (A12)
- ☐ Sandy Mucky Mineral (S1)
- ☐ 5 cm Mucky Peat or Peat (S3)
- ☐ 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)

Indicators for Problematic Hydric Soils[3]:

- ☐ Coast Prairie Redox (A16)
- ☐ Dark Surface (S7)
- ☐ Iron-Manganese Masses (F12)
- ☐ Very Shallow Dark Surface (TF12)
- ☐ Other (Explain in Remarks)

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

Restrictive Layer (if observed):

Type: _____

Depth (inches): _____

Hydric Soil Present? **Yes**

Remarks:

HYDROLOGY

Wetland Hydrology Indicators:

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

- ☑ Surface Water (A1)
- ☑ High Water Table (A2)
- ☑ Saturation (A3)
- ☐ Water Marks (B1)
- ☐ Sediment Deposits (B2)
- ☐ Drift Deposits (B3)
- ☐ Algal Mat or Crust (B4)
- ☐ Iron Deposits (B5)
- ☐ Inundation Visible on Aerial Imagery (B7)
- ☐ Sparsely Vegetated Concave Surface (B8)
- ☐ Water-Stained Leaves (B9)
- ☐ Aquatic Fauna (B13)
- ☐ True Aquatic Plants (B14)
- ☐ Hydrogen Sulfide Odor (C1)
- ☐ Oxidized Rhizospheres on Living Roots (C3)
- ☐ Presence of Reduced Iron (C4)
- ☐ Recent Iron Reduction in Tilled Soils (C6)
- ☐ Thin Muck Surface (C7)
- ☐ Gauge or Well Data (D9)
- ☐ Other (Explain in Remarks)

Secondary Indicators (minimum of two is required)

- ☐ Surface Soil Cracks (B6)
- ☐ Drainage Patterns (B10)
- ☐ Dry-Season Water Table (C2)
- ☐ Crayfish Burrows (C8)
- ☐ Saturation Visible on Aerial Imagery (C9)
- ☐ Stunted or Stressed Plants (D1)
- ☑ Geomorphic Position (D2)
- ☑ FAC-Neutral Test (D5)

Field Observations:

Surface Water Present? Yes Depth (inches): <4

Water Table Present? Yes Depth (inches): 0

Saturation Present? (includes capillary fringe) Yes Depth (inches): 0

Wetland Hydrology Present? **Yes**

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

Remarks:

WETLAND DETERMINATION DATA FORM - Midwest Region

Project/Site: US 30 (FAP 349) (Baseline Road) City/County: Kane Sampling Date 7/9/2013

Applicant/Owner: IDOT District 1 State: IL Sampling Point 12B

Investigator(s): Wiesbrook and Marcum Section, Township, Range: Sec 31, T38N, R8E

Landform (hillslope, terrace, etc.): Spoil pile Local relief (concave, convex, none): Convex

Slope (%): <1 Lat: 41.72668 Long: -88.35889 Datum: NAD 83

Soil Map Unit Name: Orthents, loamy, undulating NWI classification: U

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

Are Vegetation No, Soil No, or Hydrology No significantly disturbed? Are "Normal Circumstances" present? Yes

Are Vegetation No, Soil No, or Hydrology No 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?	No	**Is the Sampled Area within a Wetland?** **No**
Hydric Soil Present?	No	
Wetland Hydrology Present?	No	

Remarks: Community type is non-native grassland.

VEGETATION - Use scientific names of plants.

Tree Stratum (Plot size: 30 ft radius)	Absolute % Cover	Dominant Species?	Indicator Status
1.			
2.			
3.			
4.			
5.			
	0	= Total Cover	

Sapling/Shrub Stratum (Plot size: 15 ft radius)			
1. *Fraxinus pennsylvanica var. subintegerrima*	1	No	FACW
2.			
3.			
4.			
5.			
	1	= Total Cover	

Herb Stratum (Plot size: 5 ft radius)			
1. *Poa pratensis*	45	Yes	FAC
2. *Ambrosia artemisiifolia var. elatior*	30	Yes	FACU
3. *Solidago canadensis*	30	Yes	FACU
4. *Fraxinus pennsylvanica var. subintegerrima*	3	No	FACW
5. *Carex vulpinoidea*	2	No	FACW
6. *Daucus carota*	2	No	UPL
7. *Oenothera biennis*	2	No	FACU
8.			
9.			
10.			
	114	= Total Cover	

Woody Vine Stratum (Plot size: 30 ft radius)		
1.		
2.		
	0	= Total Cover

Dominance Test worksheet:

Number of Dominant Species That are OBL, FACW, or FAC: 1 (A)

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

Percent of Dominant Species That are OBL, FACW, or FAC: 33% (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

- ☐ 1-Rapid Test for Hydrophytic Vegetation
- ☐ 2-Dominance Test is >50%
- ☐ 3-Prevalence Index is < or =3.0[1]
- ☐ 4-Morphological Adaptations[1] (Provide supporting data in Remarks or on a 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? **No**

Remarks: (Include photo numbers here or on a separate sheet.)

SOIL

Sampling Point: 12B

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 Features %	Type[1]	Loc[2]	Texture	Remarks
0-12+	10YR 4/2	99+	10YR 5/6	<1	C	M	L/CL	

[1] Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. [2] Location: PL=Pore Lining, M=Matrix

Hydric Soil Indicators:

- ☐ Histosol (A1)
- ☐ Histic Epipedon (A2)
- ☐ Black Histic (A3)
- ☐ Hydrogen Sulfide (A4)
- ☐ Stratified Layers (A5)
- ☐ 2 cm Muck (A10)
- ☐ Depleted Below Dark Surface (A11)
- ☐ Thick Dark Surface (A12)
- ☐ Sandy Mucky Mineral (S1)
- ☐ 5 cm Mucky Peat or Peat (S3)
- ☐ 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)

Indicators for Problematic Hydric Soils[3]:

- ☐ Coast Prairie Redox (A16)
- ☐ Dark Surface (S7)
- ☐ Iron-Manganese Masses (F12)
- ☐ Very Shallow Dark Surface (TF12)
- ☐ Other (Explain in Remarks)

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

Restrictive Layer (if observed):

Type: _____

Depth (inches): _____

Hydric Soil Present? **No**

Remarks:

HYDROLOGY

Wetland Hydrology Indicators:

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

- ☐ Surface Water (A1)
- ☐ High Water Table (A2)
- ☐ Saturation (A3)
- ☐ Water Marks (B1)
- ☐ Sediment Deposits (B2)
- ☐ Drift Deposits (B3)
- ☐ Algal Mat or Crust (B4)
- ☐ Iron Deposits (B5)
- ☐ Inundation Visible on Aerial Imagery (B7)
- ☐ Sparsely Vegetated Concave Surface (B8)
- ☐ Water-Stained Leaves (B9)
- ☐ Aquatic Fauna (B13)
- ☐ True Aquatic Plants (B14)
- ☐ Hydrogen Sulfide Odor (C1)
- ☐ Oxidized Rhizospheres on Living Roots (C3)
- ☐ Presence of Reduced Iron (C4)
- ☐ Recent Iron Reduction in Tilled Soils (C6)
- ☐ Thin Muck Surface (C7)
- ☐ Gauge or Well Data (D9)
- ☐ Other (Explain in Remarks)

Secondary Indicators (minimum of two is required)

- ☐ Surface Soil Cracks (B6)
- ☐ Drainage Patterns (B10)
- ☐ Dry-Season Water Table (C2)
- ☐ Crayfish Burrows (C8)
- ☐ Saturation Visible on Aerial Imagery (C9)
- ☐ Stunted or Stressed Plants (D1)
- ☐ Geomorphic Position (D2)
- ☐ FAC-Neutral Test (D5)

Field Observations:

Surface Water Present? No Depth (inches): _____

Water Table Present? No Depth (inches): _____

Saturation Present? (includes capillary fringe) No Depth (inches): _____

Wetland Hydrology Present? **No**

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

Remarks:

WETLAND DETERMINATION DATA FORM - Midwest Region

Project/Site: US 30 (FAP 349) (Baseline Road) City/County: Kane Sampling Date 7/9/2013

Applicant/Owner: IDOT District 1 State: IL Sampling Point 13A

Investigator(s): Wiesbrook and Marcum Section, Township, Range: Sec 32, T38N, R8E

Landform (hillslope, terrace, etc.): Excavated depression Local relief (concave, convex, none): Concave

Slope (%): <10 Lat: 41.72645 Long: -88.35643 Datum: NAD 83

Soil Map Unit Name: NRCS mapped as Orthents, loamy, undulating; revised to Aquent NWI classification: U

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

Are Vegetation No, Soil No, or Hydrology No significantly disturbed? Are "Normal Circumstances" present? Yes

Are Vegetation No, Soil No, or Hydrology No 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	**Is the Sampled Area within a Wetland?** **Yes**
Hydric Soil Present?	Yes	
Wetland Hydrology Present?	Yes	

Remarks: Community type is wet meadow.

VEGETATION - Use scientific names of plants.

Tree Stratum (Plot size: 30 ft radius)	Absolute % Cover	Dominant Species?	Indicator Status
1.			
2.			
3.			
4.			
5.			
	0	= Total Cover	

Sapling/Shrub Stratum (Plot size: 15 ft radius)			
1.			
2.			
3.			
4.			
5.			
	0	= Total Cover	

Herb Stratum (Plot size: 5 ft radius)			
1. *Phalaris arundinacea*	25	Yes	FACW
2. *Populus deltoides*	3	No	FAC
3. *Alisma subcordatum*	2	No	OBL
4. *Ranunculus sceleratus*	1	No	OBL
5. *Rumex crispus*	1	No	FAC
6.			
7.			
8.			
9.			
10.			
	32	= Total Cover	

Woody Vine Stratum (Plot size: 30 ft radius)			
1.			
2.			
	0	= Total Cover	

Dominance Test worksheet:

Number of Dominant Species That are OBL, FACW, or FAC: _____ (A)

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

Percent of Dominant Species That are OBL, FACW, or FAC: _____ (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] 1-Rapid Test for Hydrophytic Vegetation
- [ ] 2-Dominance Test is >50%
- [ ] 3-Prevalence Index is < or =3.0[1]
- [ ] 4-Morphological Adaptations[1] (Provide supporting data in Remarks or on a 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**

Remarks: (Include photo numbers here or on a separate sheet.)

SOIL

Sampling Point: 13A

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
0-6+	10YR 2/1	100					MKL	

[1] Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. [2] Location: PL=Pore Lining, M=Matrix

Hydric Soil Indicators:

- ☐ Histosol (A1)
- ☐ Histic Epipedon (A2)
- ☐ Black Histic (A3)
- ☐ Hydrogen Sulfide (A4)
- ☐ Stratified Layers (A5)
- ☐ 2 cm Muck (A10)
- ☐ Depleted Below Dark Surface (A11)
- ☐ Thick Dark Surface (A12)
- ☐ Sandy Mucky Mineral (S1)
- ☐ 5 cm Mucky Peat or Peat (S3)
- ☐ 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)

Indicators for Problematic Hydric Soils[3]:

- ☐ Coast Prairie Redox (A16)
- ☐ Dark Surface (S7)
- ☐ Iron-Manganese Masses (F12)
- ☐ Very Shallow Dark Surface (TF12)
- ☐ Other (Explain in Remarks)

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

Restrictive Layer (if observed):

Type: _____

Depth (inches): _____

Hydric Soil Present? **Yes**

Remarks:

HYDROLOGY

Wetland Hydrology Indicators:

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

- ☑ Surface Water (A1)
- ☑ High Water Table (A2)
- ☑ Saturation (A3)
- ☐ Water Marks (B1)
- ☐ Sediment Deposits (B2)
- ☑ Drift Deposits (B3)
- ☐ Algal Mat or Crust (B4)
- ☐ Iron Deposits (B5)
- ☑ Inundation Visible on Aerial Imagery (B7)
- ☑ Sparsely Vegetated Concave Surface (B8)
- ☐ Water-Stained Leaves (B9)
- ☐ Aquatic Fauna (B13)
- ☑ True Aquatic Plants (B14)
- ☐ Hydrogen Sulfide Odor (C1)
- ☐ Oxidized Rhizospheres on Living Roots (C3)
- ☐ Presence of Reduced Iron (C4)
- ☐ Recent Iron Reduction in Tilled Soils (C6)
- ☐ Thin Muck Surface (C7)
- ☐ Gauge or Well Data (D9)
- ☐ Other (Explain in Remarks)

Secondary Indicators (minimum of two is required)

- ☐ Surface Soil Cracks (B6)
- ☐ Drainage Patterns (B10)
- ☐ Dry-Season Water Table (C2)
- ☐ Crayfish Burrows (C8)
- ☐ Saturation Visible on Aerial Imagery (C9)
- ☐ Stunted or Stressed Plants (D1)
- ☑ Geomorphic Position (D2)
- ☑ FAC-Neutral Test (D5)

Field Observations:

Surface Water Present? Yes Depth (inches): <60

Water Table Present? Yes Depth (inches): 0

Saturation Present? (includes capillary fringe) Yes Depth (inches): 0

Wetland Hydrology Present? **Yes**

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

Remarks:

WETLAND DETERMINATION DATA FORM - Midwest Region

Project/Site: US 30 (FAP 349) (Baseline Road) City/County: Kane Sampling Date 7/9/2013

Applicant/Owner: IDOT District 1 State: IL Sampling Point 13B

Investigator(s): Wiesbrook and Marcum Section, Township, Range: Sec 32, T38N, R8E

Landform (hillslope, terrace, etc.): Road embankment Local relief (concave, convex, none): None

Slope (%): >25 Lat: 41.72639 Long: -88.35641 Datum: NAD 83

Soil Map Unit Name: Orthents, loamy, undulating NWI classification: U

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

Are Vegetation No , Soil No , or Hydrology No significantly disturbed? Are "Normal Circumstances" present? Yes

Are Vegetation No , Soil No , or Hydrology No 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	**Is the Sampled Area within a Wetland?** **No**
Hydric Soil Present?	No	
Wetland Hydrology Present?	No	

Remarks: Community type is upland forest.

VEGETATION - Use scientific names of plants.

Tree Stratum (Plot size: 10 ft x 60 ft)	Absolute % Cover	Dominant Species?	Indicator Status
1. *Populus deltoides*	10	Yes	FAC
2.			
3.			
4.			
5.			
	10	= Total Cover	

Sapling/Shrub Stratum (Plot size: 10 ft radius)			
1. *Rhamnus cathartica*	65	Yes	FAC
2.			
3.			
4.			
5.			
	65	= Total Cover	

Herb Stratum (Plot size: 5 ft radius)			
1. *Rhamnus cathartica*	5	Yes	FAC
2. *Rhus radicans*	5	Yes	FAC
3. *Erechtites hieracifolia*	3	No	FAC
4. *Parthenocissus quinquefolia*	3	No	FACU
5. *Celtis occidentalis*	1	No	FAC
6. *Taraxacum officinale*	1	No	FACU
7.			
8.			
9.			
10.			
	18	= Total Cover	

Woody Vine Stratum (Plot size: 10 ft x 60 ft)			
1. *Vitis riparia*	2	No	FACW
2.			
	2	= Total Cover	

Dominance Test worksheet:

Number of Dominant Species That are OBL, FACW, or FAC: 4 (A)

Total Number of Dominant Species Across All Strata: 4 (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

- ☐ 1-Rapid Test for Hydrophytic Vegetation
- ☑ 2-Dominance Test is >50%
- ☐ 3-Prevalence Index is < or =3.0[1]
- ☐ 4-Morphological Adaptations[1] (Provide supporting data in Remarks or on a 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**

Remarks: (Include photo numbers here or on a separate sheet.)

SOIL

Sampling Point: 13B

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 Features %	Type[1]	Loc[2]	Texture	Remarks
0-12+	10YR 3/2	100					SL	

[1] Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. [2] Location: PL=Pore Lining, M=Matrix

Hydric Soil Indicators:

- ☐ Histosol (A1)
- ☐ Histic Epipedon (A2)
- ☐ Black Histic (A3)
- ☐ Hydrogen Sulfide (A4)
- ☐ Stratified Layers (A5)
- ☐ 2 cm Muck (A10)
- ☐ Depleted Below Dark Surface (A11)
- ☐ Thick Dark Surface (A12)
- ☐ Sandy Mucky Mineral (S1)
- ☐ 5 cm Mucky Peat or Peat (S3)
- ☐ 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)

Indicators for Problematic Hydric Soils[3]:

- ☐ Coast Prairie Redox (A16)
- ☐ Dark Surface (S7)
- ☐ Iron-Manganese Masses (F12)
- ☐ Very Shallow Dark Surface (TF12)
- ☐ Other (Explain in Remarks)

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

Restrictive Layer (if observed):

Type: _____

Depth (inches): _____

Hydric Soil Present? **No**

Remarks:

HYDROLOGY

Wetland Hydrology Indicators:

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

- ☐ Surface Water (A1)
- ☐ High Water Table (A2)
- ☐ Saturation (A3)
- ☐ Water Marks (B1)
- ☐ Sediment Deposits (B2)
- ☐ Drift Deposits (B3)
- ☐ Algal Mat or Crust (B4)
- ☐ Iron Deposits (B5)
- ☐ Inundation Visible on Aerial Imagery (B7)
- ☐ Sparsely Vegetated Concave Surface (B8)
- ☐ Water-Stained Leaves (B9)
- ☐ Aquatic Fauna (B13)
- ☐ True Aquatic Plants (B14)
- ☐ Hydrogen Sulfide Odor (C1)
- ☐ Oxidized Rhizospheres on Living Roots (C3)
- ☐ Presence of Reduced Iron (C4)
- ☐ Recent Iron Reduction in Tilled Soils (C6)
- ☐ Thin Muck Surface (C7)
- ☐ Gauge or Well Data (D9)
- ☐ Other (Explain in Remarks)

Secondary Indicators (minimum of two is required)

- ☐ Surface Soil Cracks (B6)
- ☐ Drainage Patterns (B10)
- ☐ Dry-Season Water Table (C2)
- ☐ Crayfish Burrows (C8)
- ☐ Saturation Visible on Aerial Imagery (C9)
- ☐ Stunted or Stressed Plants (D1)
- ☐ Geomorphic Position (D2)
- ☐ FAC-Neutral Test (D5)

Field Observations:

Surface Water Present? No Depth (inches): _____

Water Table Present? No Depth (inches): _____

Saturation Present? (includes capillary fringe) No Depth (inches): _____

Wetland Hydrology Present? **No**

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

Remarks:

APPENDIX B

Wetland Plant Species Lists

Site 4 - Wet meadow

Scientific Name	Common Name	Strata	Wetland Indicator Status	Coefficient of Conservatism
Phalaris arundinacea*	**reed canary grass**	**H**	**FACW**	**-**
Acnida altissima	tall waterhemp	H	OBL	0
*Agropyron repens**	quack grass	H	FACU	-
*Agrostis alba**	red top	H	FACW	-
Ambrosia artemisiifolia var. elatior	common ragweed	H	FACU	0
Ambrosia trifida	giant ragweed	H	FAC	0
Aster pilosus	hairy aster	H	FACU	0
Aster simplex	panicled aster	H	FAC	3
Carex sp.	sedge	H	-	-
*Hordeum jubatum**	squirrel-tail grass	H	FAC	-
*Morus alba**	white mulberry	T	FAC	-
Plantago rugelii	red-stalked plantain	H	FAC	0
*Poa pratensis**	Kentucky blue grass	H	FAC	-
Polygonum coccineum	scarlet smartweed	H	OBL	4
Polygonum pensylvanicum	pinkweed	H	FACW	0
Potentilla norvegica	rough cinquefoil	H	FAC	0
*Puccinellia distans**	alkali grass	H	OBL	-
*Rhamnus frangula**	glossy buckthorn	S	FACW	-
Rorippa palustris var. fernaldiana	marsh yellow cress	H	OBL	4
*Rumex crispus**	curly dock	H	FAC	-
*Senecio glabellus**	butterweed	H	FACW	-
Solidago canadensis	Canada goldenrod	H	FACU	1
*Taraxacum officinale**	common dandelion	H	FACU	-
*Trifolium hybridum**	alsike clover	H	FACU	-
Typha angustifolia	narrow-leaved cattail	H	OBL	1
*Ulmus pumila**	Siberian elm	T	UPL	-
Veronica peregrina	purslane speedwell	H	FACW	0

*Non-native species Bold species is dominant in the denoted stratum Mean C = 1.0

H = Herb, T = Tree, S = Sapling/Shrub, W = Woody Vine FQI = 3.6

Site 5 - Wetland pond

Scientific Name	Common Name	Strata	Wetland Indicator Status	Coefficient of Conservatism
Ceratophyllum demersum	**coontail**	**H**	**OBL**	**5**
Potamogeton pectinatus	**comb pondweed**	**H**	**OBL**	**5**
Sagittaria latifolia	**common arrowhead**	**H**	**OBL**	**4**
Alisma subcordatum	common water plantain	H	OBL	4
Asclepias incarnata	swamp milkweed	H	OBL	4
Aster pilosus	hairy aster	H	FACU	0
Aster simplex	panicled aster	H	FAC	3
Bidens frondosa	common beggar's ticks	H	FACW	1
Carex comosa	bristly sedge	H	OBL	5
Carex cristatella	crested oval sedge	H	FACW	4
Carex stipata	common fox sedge	H	OBL	3
Carex vulpinoidea	brown fox sedge	H	FACW	2
Cornus obliqua	pale dogwood	S	FACW	6
*Daucus carota**	Queen Anne's lace	H	UPL	-
Epilobium coloratum	cinnamon willow herb	H	OBL	3
Erigeron annuus	annual fleabane	H	FACU	0
Erigeron philadelphicus	marsh fleabane	H	FACW	4
Helenium autumnale	sneezeweed	H	FACW	5
Juncus sp.	rush	H	-	-
Leersia oryzoides	rice cut grass	H	OBL	4
Lobelia siphilitica	great blue lobelia	H	OBL	6
*Medicago lupulina**	black medic	H	FACU	-
Panicum virgatum	prairie switch grass	H	FAC	5
Penstemon digitalis	foxglove beard tongue	H	FAC	4
*Poa pratensis**	Kentucky blue grass	H	FAC	-
Polygonum coccineum	scarlet smartweed	H	OBL	4
Polygonum pensylvanicum	pinkweed	H	FACW	0
*Rumex crispus**	curly dock	H	FAC	-
Scirpus validus var. creber	soft-stem bulrush	H	OBL	5
*Solanum carolinense**	horse nettle	H	FACU	-
Solidago canadensis	Canada goldenrod	H	FACU	1
Typha latifolia	broad-leaved cattail	H	OBL	1
Verbena hastata	blue vervain	H	FACW	4

*Non-native species Bold species is dominant in the denoted stratum Mean C = 3.4

H = Herb, T = Tree, S = Sapling/Shrub, W = Woody Vine FQI = 17.7

Site 6 - Wet meadow

Scientific Name	Common Name	Strata	Wetland Indicator Status	Coefficient of Conservatism
Phalaris arundinacea*	**reed canary grass**	**H**	**FACW**	**-**
Acer negundo	box elder	HST	FAC	0
Acer saccharinum	silver maple	HST	FACW	0
Acnida altissima	tall waterhemp	H	OBL	0
Actinomeris alternifolia	wingstem	H	FACW	5
*Alliaria petiolata**	garlic mustard	H	FAC	-
Ambrosia trifida	giant ragweed	H	FAC	0
Apocynum cannabinum	dogbane	H	FAC	4
Apocynum sibiricum	Indian hemp	H	FAC	2
*Arctium minus**	common burdock	H	FACU	-
Carex sp.	sedge	H	-	-
Carex vulpinoidea	brown fox sedge	H	FACW	2
Celtis occidentalis	hackberry	ST	FAC	3
*Cirsium arvense**	field thistle	H	FACU	-
*Cirsium vulgare**	bull thistle	H	FACU	-
Convolvulus sepium	American bindweed	H	FAC	1
*Daucus carota**	Queen Anne's lace	H	UPL	-
Eleocharis erythropoda	red-rooted spike rush	H	OBL	2
Erigeron annuus	annual fleabane	H	FACU	0
Geum canadense	white avens	H	FAC	1
*Glechoma hederacea**	ground ivy	H	FACU	-
*Hordeum jubatum**	squirrel-tail grass	H	FAC	-
Impatiens capensis	spotted touch-me-not	H	FACW	3
Lippia lanceolata	fog fruit	H	OBL	6
*Lonicera maackii**	Amur honeysuckle	S	UPL	-
*Lythrum salicaria**	purple loosestrife	H	OBL	-
*Morus alba**	white mulberry	T	FAC	-
Oxalis stricta	common wood sorrel	H	FACU	0
Phragmites australis	common reed	H	FACW	1
*Poa pratensis**	Kentucky blue grass	H	FAC	-
*Polygonum aviculare**	common knotweed	H	FAC	-
Polygonum coccineum	scarlet smartweed	H	OBL	4
Polygonum hydropiper	water pepper	H	OBL	2
Polygonum scandens	climbing false buckwheat	H	FAC	1
Populus deltoides	eastern cottonwood	HST	FAC	2
*Puccinellia distans**	alkali grass	H	OBL	-
*Rorippa sylvestris**	creeping yellow cress	H	OBL	-
Rudbeckia laciniata	wild golden glow	H	FACW	5
Salix interior	sandbar willow	S	FACW	1
*Solanum dulcamara**	bittersweet nightshade	H	FAC	-
Solidago canadensis	Canada goldenrod	H	FACU	1
Solidago gigantea	late goldenrod	H	FACW	4
*Taraxacum officinale**	common dandelion	H	FACU	-
*Trifolium repens**	white clover	H	FACU	-
*Ulmus pumila**	Siberian elm	S	UPL	-
Urtica procera	stinging nettle	H	FACW	2
Vitis riparia	riverbank grape	H	FACW	2

*Non-native species Bold species is dominant in the denoted stratum Mean C = 2.0

H = Herb, T = Tree, S = Sapling/Shrub, W = Woody Vine FQI = 10.4

Site 7 - Marsh

Scientific Name	Common Name	Strata	Wetland Indicator Status	Coefficient of Conservatism
Eleocharis erythropoda	**red-rooted spike rush**	**H**	**OBL**	**2**
Typha angustifolia	**narrow-leaved cattail**	**H**	**OBL**	**1**
*Agrostis alba**	red top	H	FACW	-
Alisma subcordatum	common water plantain	H	OBL	4
Ambrosia artemisiifolia var. elatior	common ragweed	H	FACU	0
Asclepias syriaca	common milkweed	H	FACU	0
Aster simplex	panicled aster	H	FAC	3
*Cirsium arvense**	field thistle	H	FACU	-
*Cirsium vulgare**	bull thistle	H	FACU	-
Cyperus esculentus	field nut sedge	H	FACW	0
*Diplachne acuminata**	salt meadow grass	H	OBL	-
Echinochloa crusgalli	spiny barnyard grass	H	OBL	0
Erigeron annuus	annual fleabane	H	FACU	0
*Festuca elatior**	tall fescue	H	FACU	-
*Hordeum jubatum**	squirrel-tail grass	H	FAC	-
Juncus torreyi	Torrey's rush	H	FACW	4
Leersia oryzoides	rice cut grass	H	OBL	4
*Poa pratensis**	Kentucky blue grass	H	FAC	-
Polygonum pensylvanicum	pinkweed	H	FACW	0
*Rumex crispus**	curly dock	H	FAC	-
Salix nigra	black willow	H	OBL	4
Scirpus atrovirens	dark green rush	H	OBL	4
Scirpus validus var. creber	soft-stem bulrush	H	OBL	5
Sparganium eurycarpum	common bur reed	H	OBL	6

*Non-native species Bold species is dominant in the denoted stratum Mean C = 2.3
H = Herb, T = Tree, S = Sapling/Shrub, W = Woody Vine FQI = 9.3

Site 8 - Forested wetland

Scientific Name	Common Name	Strata	Wetland Indicator Status	Coefficient of Conservatism
Acer saccharinum	**silver maple**	HS**T**	**FACW**	**0**
Polygonum punctatum	**smartweed**	**H**	**OBL**	**6**
Rhamnus cathartica*	**common buckthorn**	H**S**	**FAC**	**-**
Acer negundo	box elder	ST	FAC	0
Aster simplex	panicled aster	H	FAC	3
Bidens frondosa	common beggar's ticks	H	FACW	1
Carex sp.	sedge	H	-	-
*Glechoma hederacea**	ground ivy	H	FACU	-
*Morus alba**	white mulberry	HST	FAC	-
Parthenocissus quinquefolia	Virginia creeper	H	FACU	2
Phytolacca americana	pokeweed	H	FACU	1
Rhus radicans	poison ivy	H	FAC	2
Sambucus canadensis	common elder	S	FACW	1
Smilax tamnoides var. hispida	bristly green brier	H	FAC	5
Solanum americanum	black nightshade	H	FACU	0
*Solanum dulcamara**	bittersweet nightshade	H	FAC	-
Ulmus americana	American elm	T	FACW	3
*Ulmus pumila**	Siberian elm	T	UPL	-
Viola sororia	woolly blue violet	H	FAC	3
Vitis riparia	riverbank grape	H	FACW	2

*Non-native species Bold species is dominant in the denoted stratum Mean C = 2.1
H = Herb, T = Tree, S = Sapling/Shrub, W = Woody Vine FQI = 7.8

Site 11 - Forested wetland

Scientific Name	Common Name	Strata	Wetland Indicator Status	Coefficient of Conservatism
Acer negundo	**box elder**	HS**T**	**FAC**	**0**
Epilobium coloratum	**cinnamon willow herb**	**H**	**OBL**	**3**
Impatiens capensis	**spotted touch-me-not**	**H**	**FACW**	**3**
Lythrum salicaria*	**purple loosestrife**	**H**	**OBL**	**-**
Populus deltoides	**eastern cottonwood**	HS**T**	**FAC**	**2**
Rhamnus cathartica*	**common buckthorn**	H**S**T	**FAC**	**-**
Sambucus canadensis	**common elder**	**S**	**FACW**	**1**
Acer saccharinum	silver maple	T	FACW	0
*Agrostis alba**	red top	H	FACW	-
*Alliaria petiolata**	garlic mustard	H	FAC	-
Boehmeria cylindrica	false nettle	H	OBL	2
Carex lurida	bottlebrush sedge	H	OBL	8
Carex vulpinoidea	brown fox sedge	H	FACW	2
Circaea lutetiana var. canadensis	enchanter's nightshade	H	FACU	1
*Cirsium arvense**	field thistle	H	FACU	-
*Cirsium vulgare**	bull thistle	H	FACU	-
*Duchesnea indica**	Indian strawberry	H	FACU	-
Erigeron annuus	annual fleabane	H	FACU	0
Erigeron philadelphicus	marsh fleabane	H	FACW	4
Eupatorium serotinum	late boneset	H	FAC	0
Geum canadense	white avens	H	FAC	1
Geum laciniatum	rough avens	H	FACW	5
Juncus torreyi	Torrey's rush	H	FACW	4
Leersia oryzoides	rice cut grass	H	OBL	4
*Lonicera maackii**	Amur honeysuckle	S	UPL	-
*Lysimachia nummularia**	moneywort	H	FACW	-
*Morus alba**	white mulberry	T	FAC	-
Parthenocissus quinquefolia	Virginia creeper	HW	FACU	2
*Phalaris arundinacea**	reed canary grass	H	FACW	-
Phragmites australis	common reed	H	FACW	1
Phytolacca americana	pokeweed	H	FACU	1
Pilea pumila	Canada clearweed	H	FACW	5
*Poa pratensis**	Kentucky blue grass	H	FAC	-
Prunella vulgaris var. lanceolata	self-heal	H	FAC	0
*Rhamnus frangula**	glossy buckthorn	S	FACW	-
*Rumex crispus**	curly dock	H	FAC	-
Scirpus atrovirens	dark green rush	H	OBL	4
Scirpus validus var. creber	soft-stem bulrush	H	OBL	5
Scutellaria lateriflora	mad-dog skullcap	H	OBL	5
*Solanum dulcamara**	bittersweet nightshade	HW	FAC	-
Solidago canadensis	Canada goldenrod	H	FACU	1
Solidago gigantea	late goldenrod	H	FACW	4
Typha angustifolia	narrow-leaved cattail	H	OBL	1
Typha latifolia	broad-leaved cattail	H	OBL	1
*Viburnum opulus**	European high-bush cranberry	S	FAC	-
Vitis riparia	riverbank grape	HW	FACW	2

*Non-native species Bold species is dominant in the denoted stratum Mean C = 2.4

H = Herb, T = Tree, S = Sapling/Shrub, W = Woody Vine FQI = 13.1

Site 12 - Marsh/Wet meadow

Scientific Name	Common Name	Strata	Wetland Indicator Status	Coefficient of Conservatism
Agrostis alba*	**red top**	**H**	**FACW**	**-**
Carex vulpinoidea	**brown fox sedge**	**H**	**FACW**	**2**
Phalaris arundinacea*	**reed canary grass**	**H**	**FACW**	**-**
Poa pratensis*	**Kentucky blue grass**	**H**	**FAC**	**-**
Typha angustifolia	**narrow-leaved cattail**	**H**	**OBL**	**1**
Acalypha rhomboidea	three-seeded mercury	H	FACU	0
Acer negundo	box elder	HS	FAC	0
Acer saccharinum	silver maple	HS	FACW	0
Alisma subcordatum	common water plantain	H	OBL	4
Ambrosia artemisiifolia var. elatior	common ragweed	H	FACU	0
Apocynum cannabinum	dogbane	H	FAC	4
Aster pilosus	hairy aster	H	FACU	0
Carex lurida	bottlebrush sedge	H	OBL	8
Carex molesta	field oval sedge	H	FAC	2
Carex normalis	spreading oval sedge	H	FACW	5
Carex tribuloides	awl-fruited oval sedge	H	OBL	3
*Cirsium arvense**	field thistle	H	FACU	-
*Daucus carota**	Queen Anne's lace	H	UPL	-
Eleocharis erythropoda	red-rooted spike rush	H	OBL	2
Eleocharis obtusa	blunt spike rush	H	OBL	3
Epilobium coloratum	cinnamon willow herb	H	OBL	3
Erigeron annuus	annual fleabane	H	FACU	0
Fraxinus pennsylvanica var. subintegerrima	green ash	HS	FACW	1
*Hordeum jubatum**	squirrel-tail grass	H	FAC	-
Juncus dudleyi	Dudley's rush	H	FACW	4
Juncus torreyi	Torrey's rush	H	FACW	4
*Lysimachia nummularia**	moneywort	H	FACW	-
*Lythrum salicaria**	purple loosestrife	H	OBL	-
Parthenocissus quinquefolia	Virginia creeper	HW	FACU	2
Populus deltoides	eastern cottonwood	HST	FAC	2
Ranunculus abortivus	little-leaf buttercup	H	FACW	0
Rhus radicans	poison ivy	HW	FAC	2
*Rumex crispus**	curly dock	H	FAC	-
Salix amygdaloides	peach-leaved willow	S	FACW	5
Salix discolor	pussy willow	S	FACW	2
Salix interior	sandbar willow	HS	FACW	1
Salix nigra	black willow	S	OBL	4
Scirpus atrovirens	dark green rush	H	OBL	4
Scirpus pendulus	red bulrush	H	OBL	4
Scirpus validus var. creber	soft-stem bulrush	H	OBL	5
Solidago canadensis	Canada goldenrod	H	FACU	1
Solidago gigantea	late goldenrod	H	FACW	4
*Trifolium hybridum**	alsike clover	H	FACU	-
Typha latifolia	broad-leaved cattail	H	OBL	1
Ulmus americana	American elm	H	FACW	3
Verbena hastata	blue vervain	H	FACW	4
Verbena urticifolia	white vervain	H	FAC	5
Vitis riparia	riverbank grape	HW	FACW	2

*Non-native species Bold species is dominant in the denoted stratum Mean C = 2.6

H = Herb, T = Tree, S = Sapling/Shrub, W = Woody Vine FQI = 15.7

Site 13 - Wet meadow

Scientific Name	Common Name	Strata	Wetland Indicator Status	Coefficient of Conservatism
Phalaris arundinacea*	**reed canary grass**	**H**	**FACW**	**-**
Alisma subcordatum	common water plantain	H	OBL	4
Aster pilosus	hairy aster	H	FACU	0
Aster simplex	panicled aster	H	FAC	3
*Cirsium arvense**	field thistle	H	FACU	-
Erechtites hieracifolia	fireweed	H	FAC	2
Erigeron annuus	annual fleabane	H	FACU	0
Lemna minor	small duckweed	H	OBL	5
*Lythrum salicaria**	purple loosestrife	H	OBL	-
*Morus alba**	white mulberry	ST	FAC	-
Populus deltoides	eastern cottonwood	HST	FAC	2
Potentilla norvegica	rough cinquefoil	H	FAC	0
Ranunculus sceleratus	cursed crowfoot	H	OBL	6
*Rhamnus cathartica**	common buckthorn	S	FAC	-
*Rumex crispus**	curly dock	H	FAC	-
Salix nigra	black willow	T	OBL	4
Sambucus canadensis	common elder	HS	FACW	1
*Solanum dulcamara**	bittersweet nightshade	HW	FAC	-
Typha angustifolia	narrow-leaved cattail	H	OBL	1
Vitis riparia	riverbank grape	W	FACW	2

*Non-native species Bold species is dominant in the denoted stratum Mean C = 2.3

H = Herb, T = Tree, S = Sapling/Shrub, W = Woody Vine FQI = 8.3

APPENDIX C

Figures

Figure 1 – Project Location Map
Figure 2 – National Wetlands Inventory Map
Figure 3 – ADID Wetland Map
Figure 4 – Soil Survey Map
Figure 5 – Wetland Delineation Overview Map
Figure 6 – Wetland Delineation Maps

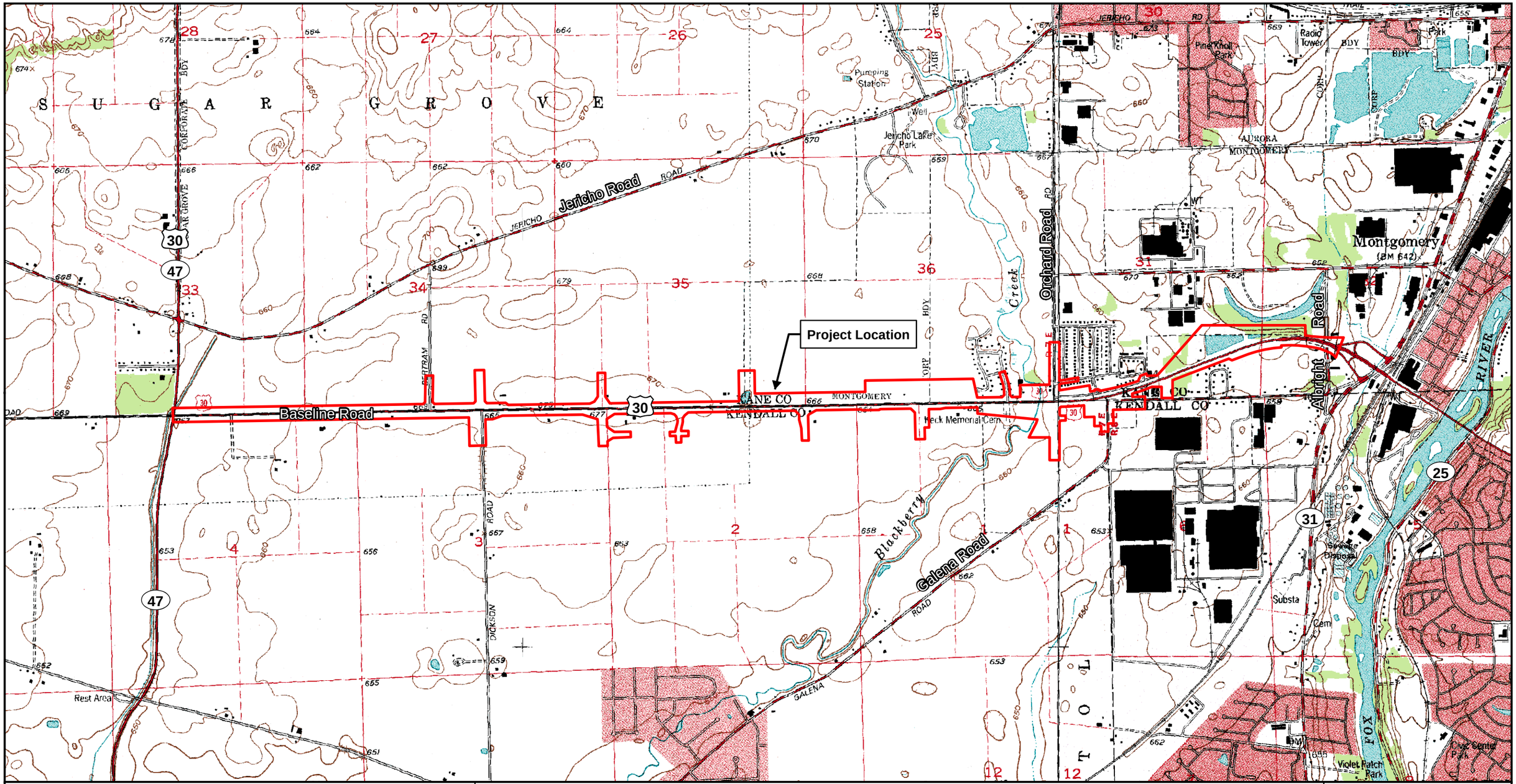

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Figure 1
Project Location Map
US 30 - Baseline Road (FAP 349), IL 47 to Albright Road
Kane and Kendall Counties

Seq. No: 17659

Meters 0 500

Feet 0 2,000

July 2013

N W E S

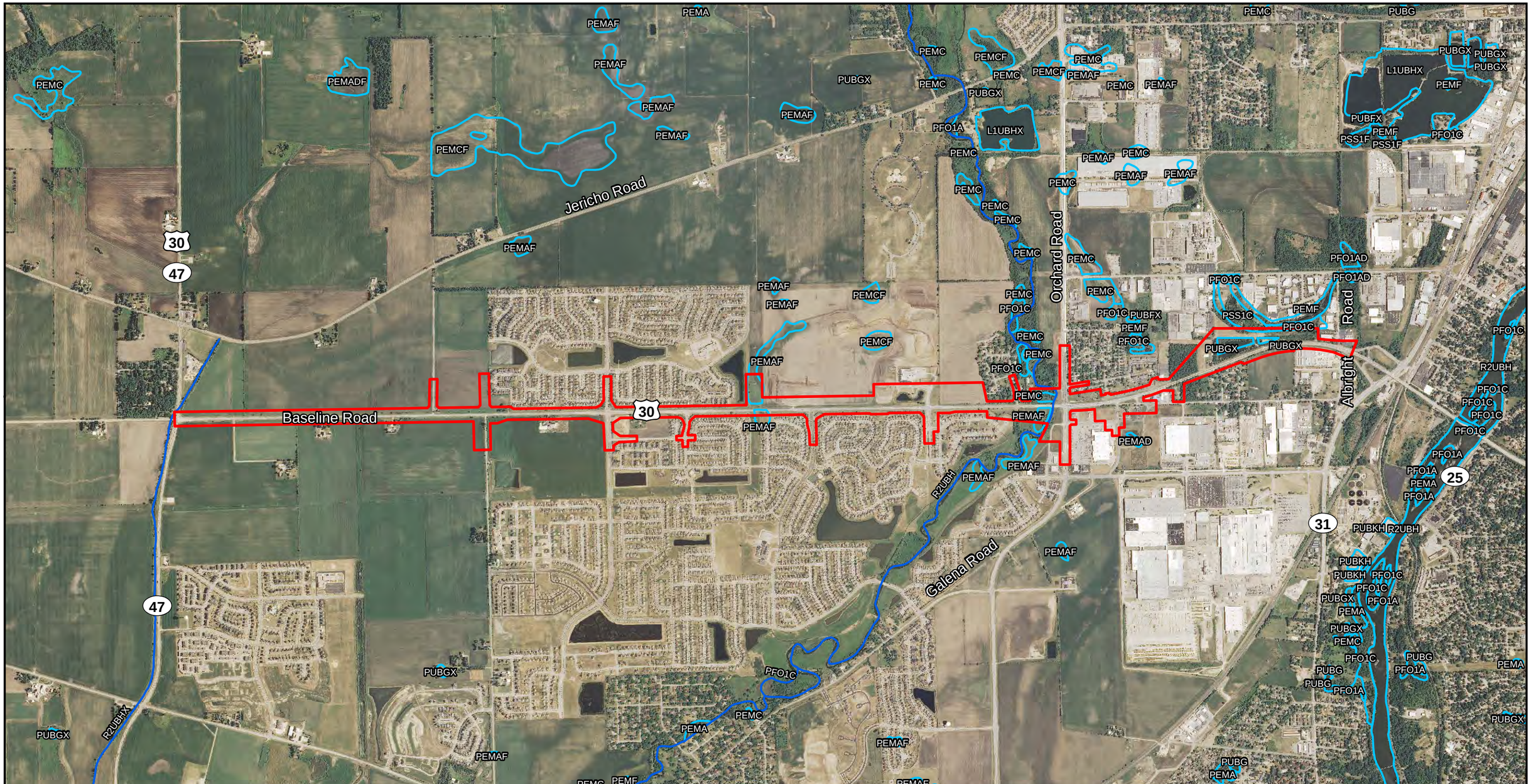

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Figure 2
National Wetlands Inventory Map
US 30 - Baseline Road (FAP 349), IL 47 to Albright Road
Kane and Kendall Counties

Seq. No: 17659

Meters 0 500

Feet 0 2,000

July 2013

N W E S

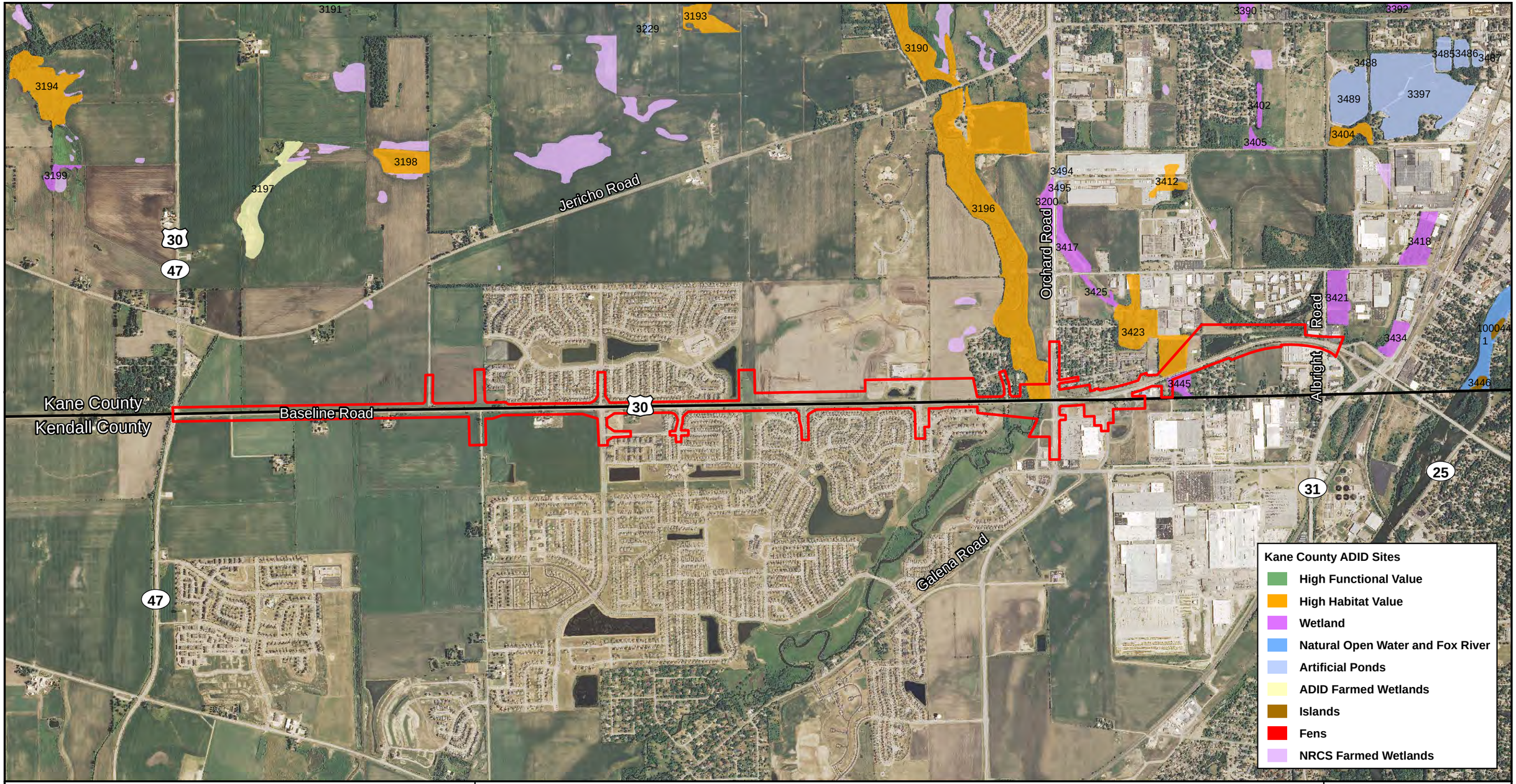

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Figure 3
Kane County ADID Map
US 30 - Baseline Road (FAP 349), IL 47 to Albright Road
Kane and Kendall Counties

Seq. No: 17659

Meters 0 500

Feet 0 2,000

July 2013

N W E S

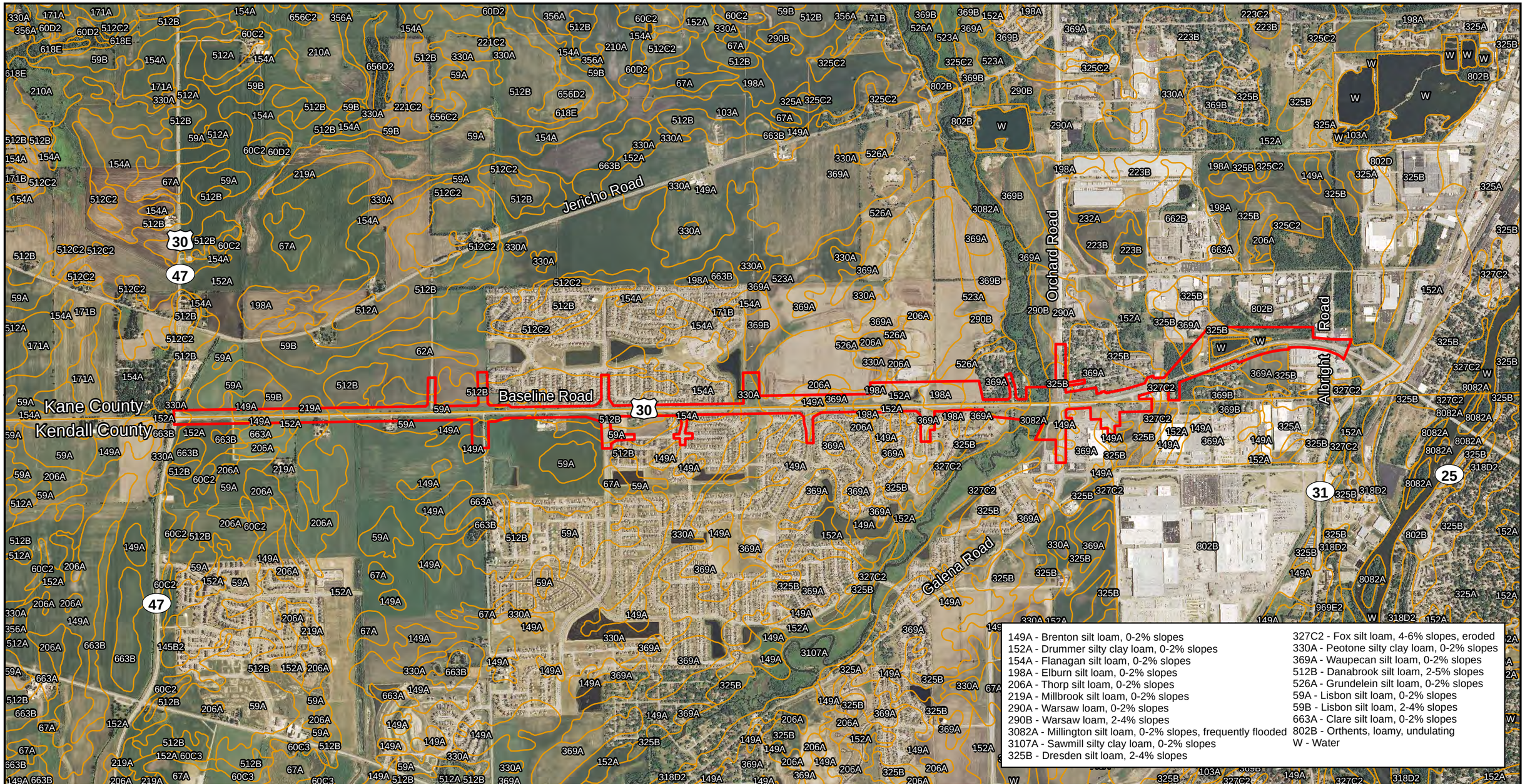

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Figure 4
Soil Survey Map
US 30 - Baseline Road (FAP 349), IL 47 to Albright Road
Kane and Kendall Counties

Seq. No: 17659

Meters 0 500

Feet 0 2,000

July 2013

N W E S

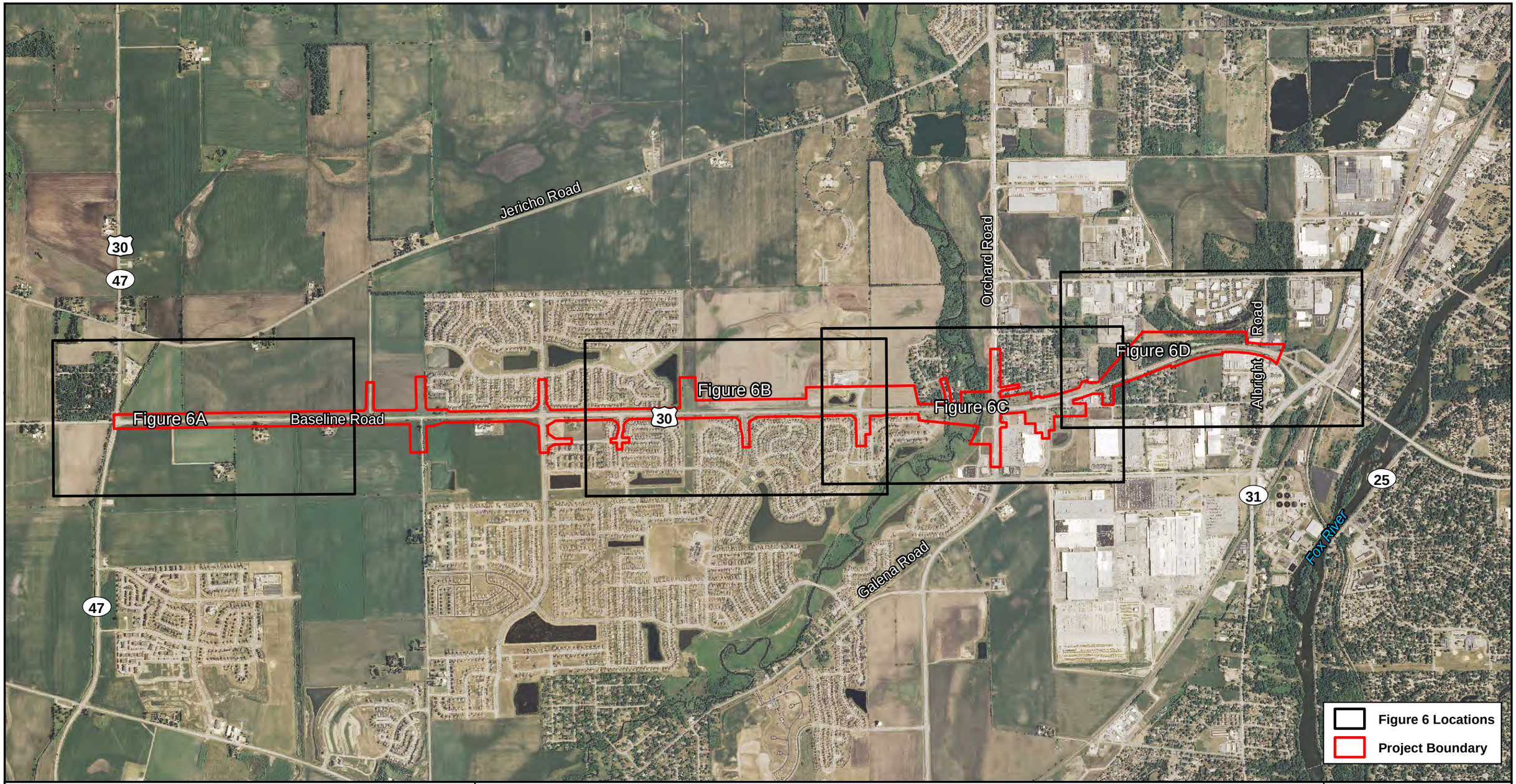

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Figure 5
Wetland Delineation Overview Map
US 30 - Baseline Road (FAP 349), IL 47 to Albright Road
Kane and Kendall Counties

Seq. No: 17659

Meters 0 500

Feet 0 2,000

July 2013

N W E S

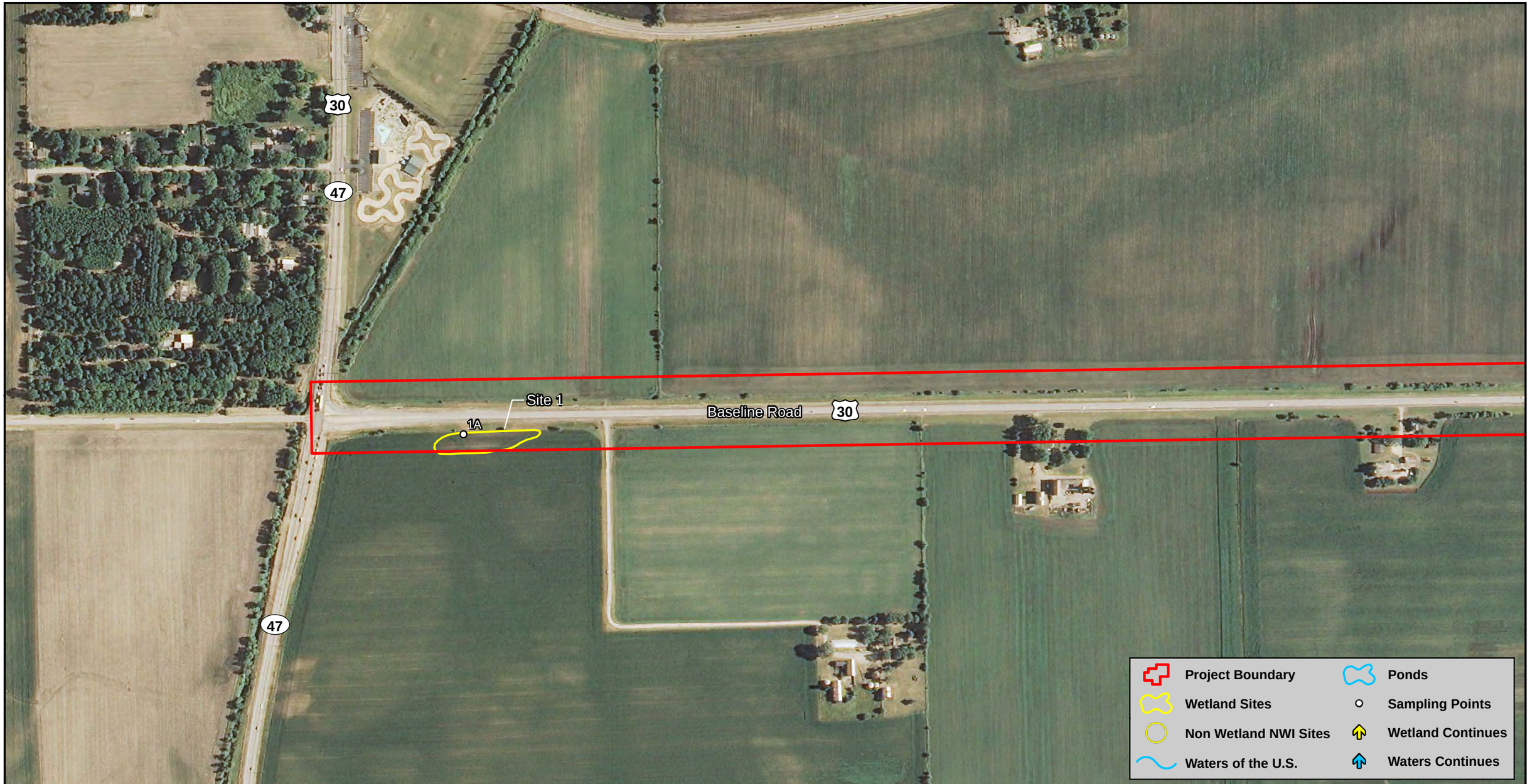

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Figure 6A
Wetland Delineation Map
US 30 - Baseline Road (FAP 349), IL 47 to Albright Road
Kane and Kendall Counties

Seq. No: 17659

Meters 0 100

Feet 0 400

July 2013

N W E S

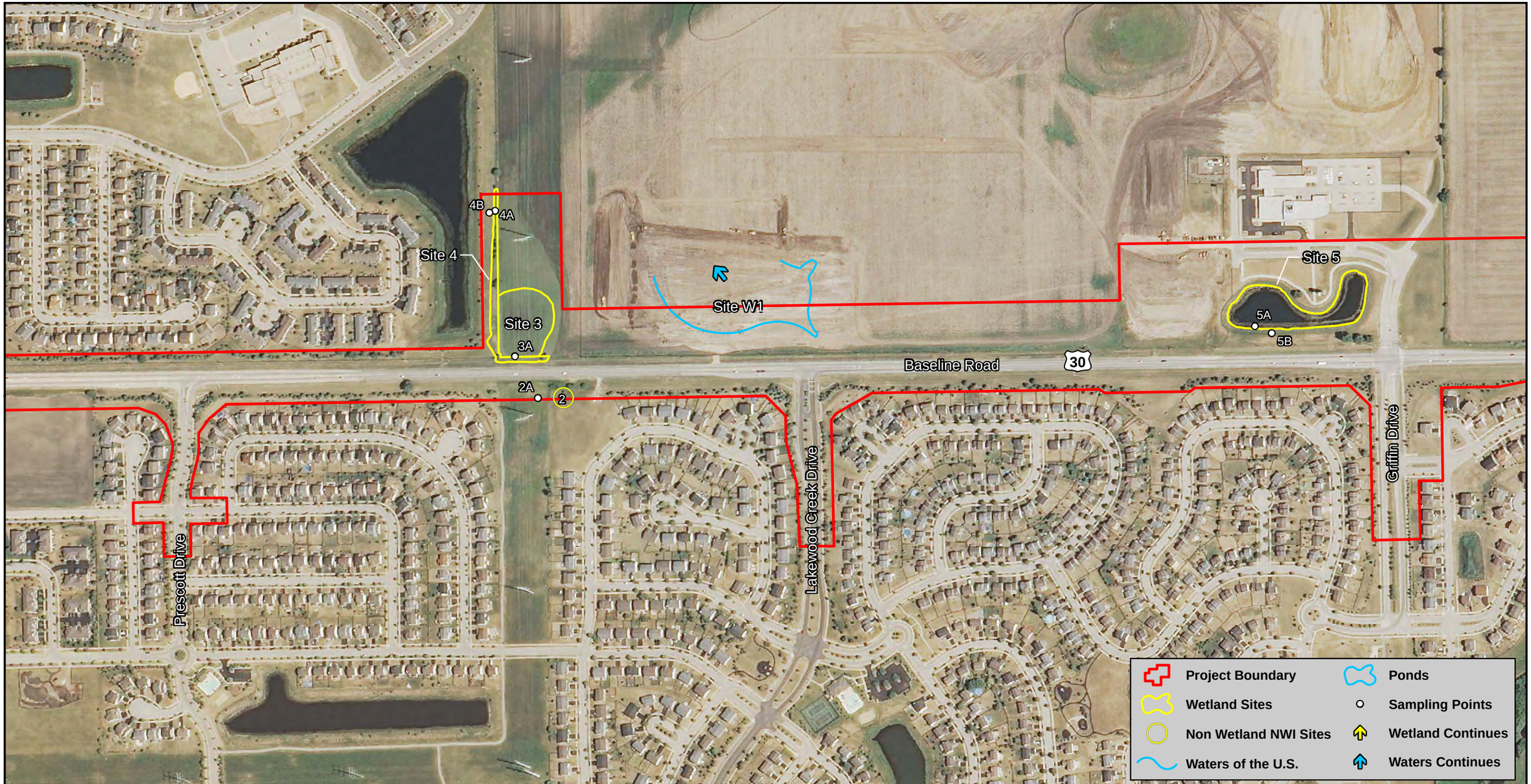

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Figure 6B
Wetland Delineation Map
US 30 - Baseline Road (FAP 349), IL 47 to Albright Road
Kane and Kendall Counties

Seq. No: 17659

Meters 0 100

Feet 0 400

July 2013

N W E S

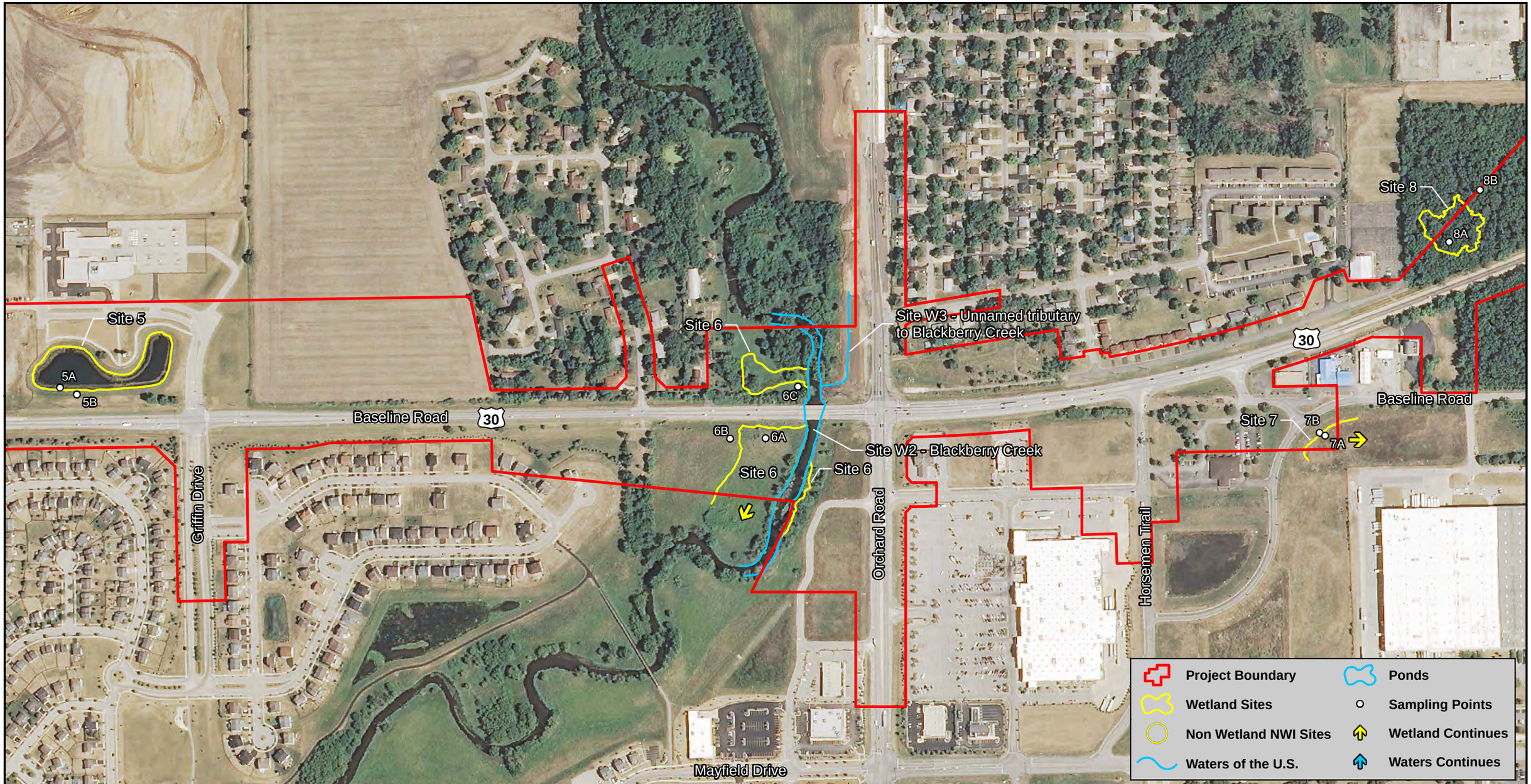

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Figure 6C
Wetland Delineation Map
US 30 - Baseline Road (FAP 349), IL 47 to Albright Road
Kane and Kendall Counties

Seq. No: 17659

Meters 0 100

Feet 0 400

July 2013

N W E S

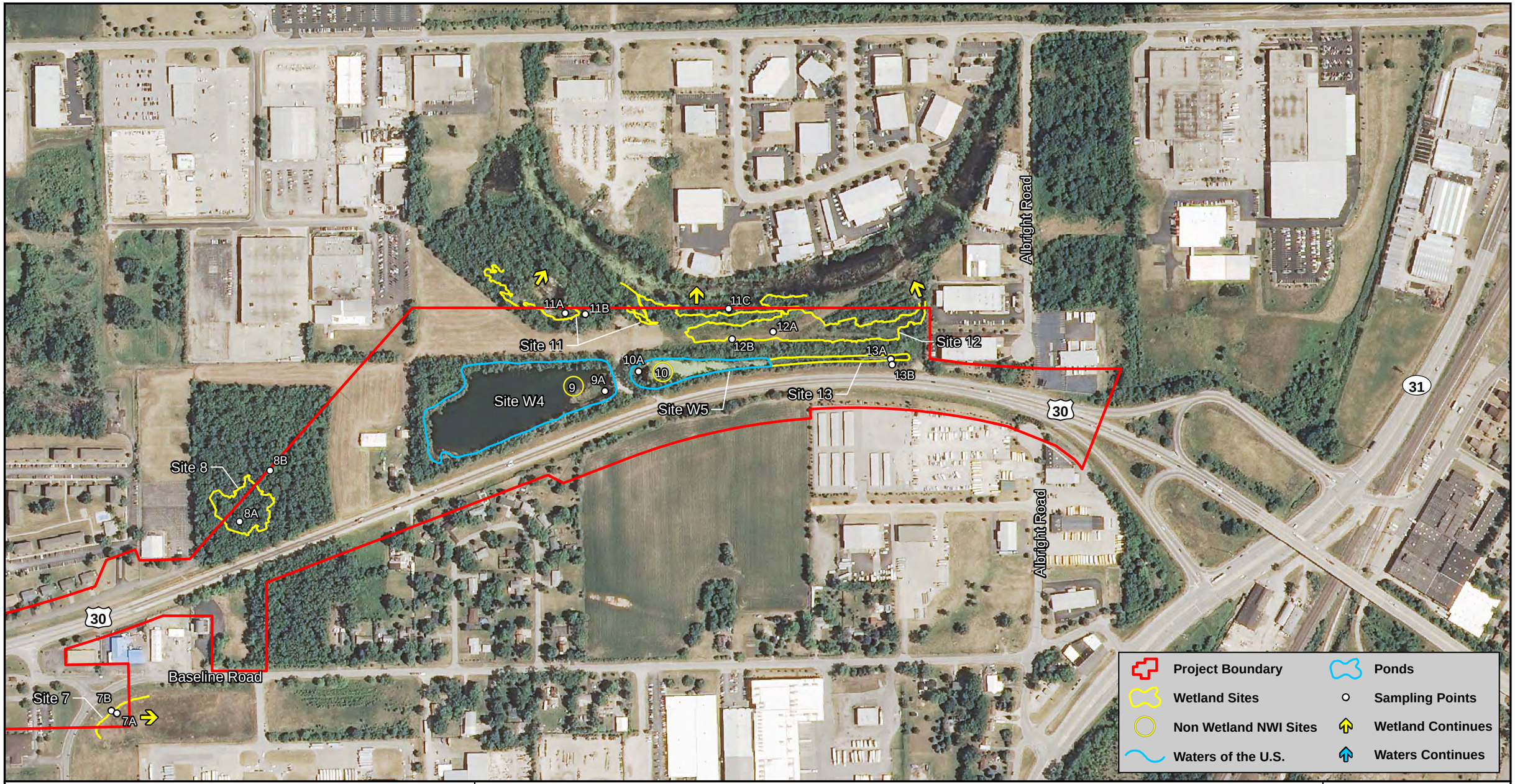

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Figure 6D
Wetland Delineation Map
US 30 - Baseline Road (FAP 349), IL 47 to Albright Road
Kane and Kendall Counties

Seq. No: 17659

Meters 0 100

Feet 0 400

July 2013

N W E S

APPENDIX D

NRCS Wetland Delineations

NRCS Method Table

The most recent years determined to be "normal rainfall years" at the Aurora Weather Station are: 2011, 2009, 2008, 2006, 2003, 2002, and 2001. 2008 photography for Kane County is not available, so 2008 was not used for these determinations.

Site Number	2001	2002	2003	2006	2009	2011	NWI	% Photos with signature#	Photos & NWI Combined %^
1	**Yes**	*****	**Yes**	**Yes**	**Yes**	**No**	**U**	**80**	**67**
3	**No**	**Yes**	*****	**No**	**Yes**	**Yes**	**PEMAf**	**60**	**67**

#Percent must be greater than 50% to be considered wetland hydrology.
^Percent must be 50% or greater to be considered wetland hydrology.
*Photo not available for this year.

Site photographs for NRCS wetland determination site 1.

2001 Photo – Signature indicated.

2003 Photo – Signature indicated.

2006 Photo – Signature indicated.

2009 Photo – Signature indicated.

2011 Photo – No signature indicated.

Site photographs for NRCS wetland determination site 3.

2001 Photo – No signature indicated.

2011 Photo – Signature indicated.

2002 Photo – Signature indicated.

2006 Photo – No signature indicated.

2009 Photo – Signature indicated.

ILLINOIS NATURAL HISTORY SURVEY
PRAIRIE RESEARCH INSTITUTE

WETLAND DETERMINATION REPORT

US 30 - Baseline Road (FAP 349), IL 47 to Albright Road – Addendum A
Kane and Kendall Counties, Illinois

IDOT Sequence Number: 17659A

Prepared by:
Ian Kenney, Paul Marcum, Susan McIntyre, and Dennis Skultety

INHS/IDOT Wetland Science Program

November 2014

Project Summary

A wetland survey was conducted for proposed work on US 30 - Baseline Road (FAP 349), IL 47 to Albright Road – Addendum A in Kane and Kendall Counties, Illinois. All potential wetlands within the specified project area were examined. Fifteen sites met the three criteria of a wetland established in the *Corps of Engineers Wetlands Delineation Manual* (Environmental Laboratory 1987) and the *Regional Supplement to the Corps of Engineers Wetland Delineation Manual: Midwest Region (Version 2.0)* [U.S. Army Corps of Engineers (USACE) 2010] and were, therefore, determined to be wetlands. Summary information regarding the wetland determination sites is presented in the wetland project report. Wetland determination forms are found in Appendix A and wetland plant species lists are included in Appendix B. Wetland boundaries were recorded using a Trimble Global Navigation Satellite System (GNSS). The spatial data have been digitally uploaded to the Illinois Site Assessment Tracking System (http://frostycap.isgs.uiuc.edu/idot_extranet). Locations of determination sites were overlaid on a digital orthophoto quadrangle (DOQ) using ArcGIS; the resulting figure is included in Appendix C. Additional maps and figures are also included in Appendix C.

Signed: Scott M Wiesbrook Date: November 4, 2014

Scott M. Wiesbrook
Wetland Science Program
Assistant Project Leader for Soils

Conducted By: Ian Kenney (Soils, Hydrology, and GNSS)
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Cover Photo: Facing south at site 6F overlooking Blackberry Creek.

US 30 - Baseline Road (FAP 349), IL 47 to Albright Road – Addendum A
Kane and Kendall Counties, Illinois

Introduction

A wetland survey was conducted in October, 2014 for the proposed work on US 30 - Baseline Road (FAP 349), IL 47 to Albright Road – Addendum A in Kane and Kendall Counties, Illinois. Construction work is to include miscellaneous roadway improvements with incidental approach road work. This report details surveys of an area adjacent to the area covered in the 2013 "Wetland delineation report: US 30 – Baseline Road (FAP 349), IL 47 to Albright Road, Kane and Kendall Counties, Illinois" by Wiesbrook, et al. All wetlands and wetland determination sites are, therefore, numbered sequentially from where the previous report concluded.

Methods

All potential wetlands within the specified study area were examined. Characteristics of vegetation, soils, hydrology, and topography were evaluated during field investigation and on-site wetland determination. Locations of observation points for wetland determinations were selected based on plant community borders and topographic changes. The following sources were examined while surveying the project corridor to determine wetland locations and boundaries: aerial photographs; U.S. Geological Survey topographic map (Aurora South and Yorkville 7.5 minute quadrangles); National Wetlands Inventory (NWI) map (Aurora South and Yorkville 7.5 minute quadrangles) (U.S. Fish and Wildlife Service); Kane County Advanced Identification (ADID) wetland maps (Northeastern Illinois Planning Commission et al. 2004), Illinois Wetlands Inventory (U.S. Fish and Wildlife Service, Illinois Department of Natural Resources, Illinois Natural History Survey 1996); the *Corps of Engineers Wetlands Delineation Manual* (Environmental Laboratory 1987); the *Regional Supplement to the Corps of Engineers Wetland Delineation Manual: Midwest Region (Version 2.0)* (USACE 2010); the USDA-NRCS *Official Series Descriptions*; and the USDA-NRCS *Web Soil Survey*. Positional inaccuracies are known to occur with downloaded sources of digital data listed above. As presented on maps and figures in this report, data can be shifted from their actual position when compared to modern aerial photography.

Wetland determinations were conducted using definitions and guidelines established in the *Corps of Engineers Wetlands Delineation Manual* (Environmental Laboratory 1987) and the *Regional Supplement to the Corps of Engineers Wetland Delineation Manual: Midwest Region (Version 2.0)* (USACE 2010). Data from these determinations were recorded on U.S. Army Corps of Engineers' Wetland Determination Data Forms – Midwest Region (Appendix A); a data form was completed for each wetland sampling point. All potential wetlands, including all areas mapped as wetlands by the NWI, were described using at least one sampling point. Results of these determinations are summarized in the following text. Adjacent upland areas were also investigated; forms were also completed for these areas. Comprehensive plant species lists were compiled for each wetland site and are presented in Appendix B.

Wetland and water boundaries were recorded using a Trimble Global Navigation Satellite System (model GeoExplorer 6000 Series GeoXT), with a presumed accuracy of +/- 0.5 m under optimal field conditions. Occasionally, conditions prohibit field-delineation of boundaries using GNSS equipment, and these boundaries are digitized in the office using aerial photography. Typically this is done when one of three issues prevents field personnel from conducting a normal field delineation:

- Site cannot be accessed due to fence, lack of permission, hostile landowner, or other reason.
- Current conditions make delineation impossible (for example, delineating a stream or other water during a major flood when boundaries cannot be seen in the field).
- Current conditions make field delineation dangerous to our personnel. This often occurs with very steep-sided banks on creeks that have a great deal of vegetation obscuring the drop-off.

When a site is delineated using aerial photography, the site boundary must be readily visible from the aerial photo, and not obscured by overhanging vegetation or other features on the photo.

Spatial data were digitally uploaded to the Illinois Site Assessment Tracking System (http://frostycap.isgs.uiuc.edu/idot_extranet). Locations of determination sites were overlaid on a digital orthophoto quadrangle (DOQ) and approximate area was determined for each wetland site using ArcGIS 10.2.2 software (ESRI 2014). Resulting areas are calculated in acres, reported to two decimal places. Area of streams and ditches is given for the open channel and omits any portion enclosed in a pipe or culvert. Length of streams and ditches is given for the entire length within the project corridor; this includes pipes and culverts where visual observation can locate both ends. Site location, with respect to the nearest road, was measured from the edge of the pavement and is reported to the nearest foot.

Each native plant species was assigned a “coefficient of conservatism” (C) (Swink and Wilhelm 1994), a subjective rating of species fidelity to undegraded natural communities, ranging from zero to ten. Conservative species - those more likely to be found in “pristine” natural areas - were assigned high numbers, whereas non-conservative species - those that occur in anthropogenically disturbed areas - were given lower numbers. Non-native species and those not identifiable to species level were not assigned a rating. The Floristic Quality Index (FQI) is computed as FQI = (mean C) X ($\sqrt{N}$), where mean C is the mean coefficient of conservatism for all native plant species at a site and N is the total number of native plant species at the site. In very general terms, higher FQI values for plant communities indicate more similarity to “pristine” natural areas, as compared to those communities with lower FQI values. Botanical nomenclature follows *Plants of the Chicago Region* (*ibid*.), while wetland indicator status for each species follows *National Wetland Plant List, version 3.2* (USACE 2014).

Wetland Determination Site Summaries

2013 wetland delineation sites - updated

Sites 1 to 13 are from the original wetland survey conducted for this project in 2013 (Wiesbrook *et al.* 2013). Site 8 was fully delineated in the original report and the area within the corridor is the only modification for this project. Sites 6 and 11 were reassessed and included in this report because they extended into the Addendum. The updated plant species lists for sites 6 and 11 are located in Appendix B.

Site Number: 8
Community type: **Forested wetland**
National Wetlands Inventory code: **U (upland)**
Site location: **Approximately 80 feet north of US 30**
Hydrophytic Vegetation? **Yes** Hydric Soils? **Yes** Wetland Hydrology? **Yes**
Is this site a wetland? **Yes**
Area of site occurring within the project corridor: **0.30 ac***
Total site area: **0.88 ac***
Is this site an Advanced Identification (ADID) High Habitat Value wetland? **No**
Is this site an Advanced Identification (ADID) High Functional Value wetland? **Yes**
Is this site a High Quality Aquatic Resource (HQAR) (USACE-CD 2012)? **Yes**
Rationale: **This is an Advanced Identification (ADID) Site (Site 3423)**
Does this site meet U.S. Fish and Wildlife Service (FWS) criteria for potential *Platanthera leucophaea* (Eastern prairie fringed orchid) habitat (USFWS 2014)? **No**
Waters type (USACE and USEPA 2007): **Wetlands adjacent to non-RPWs that flow directly or indirectly into Traditional Navigable Waters (NRPWW)**
HGM type: **Depressional**
Mean Coefficient of Conservatism (mean C): **2.1** Floristic Quality Index (FQI): **7.8**
Additional remarks: **The entire site (0.88 ac) lies within the combined boundaries of the original project and this addendum.**

Site Number: 6
Community type: **Wet meadow**
National Wetlands Inventory code: **PEMC (seasonally flooded, emergent, palustrine wetland) / PEMAf (farmed, temporarily flooded, emergent, palustrine wetland)**
Site location: **Multiple pieces along Blackberry Creek, beginning approximately 47 feet north and 8 feet south of US 30**
Hydrophytic Vegetation? **Yes** Hydric Soils? **Yes** Wetland Hydrology? **Yes**
Is this site a wetland? **Yes**
Area of site occurring within the project corridor: **5.58 ac**
Total site area: **5.73 ac**
Is this site an Advanced Identification (ADID) High Habitat Value wetland? **No**
Is this site an Advanced Identification (ADID) High Functional Value wetland? **Yes**
Is this site a High Quality Aquatic Resource (HQAR) (USACE-CD 2012)? **Yes**

Rationale: **A portion of this site in an Advanced Identification (ADID) Site (Site 3196). Additionally, this site has a mean C-value of 3.5 and FQI > 20.**

Does this site meet U.S. Fish and Wildlife Service (FWS) criteria for potential *Platanthera leucophaea* (Eastern prairie fringed orchid) habitat (USFWS 2014)? **Yes**

Waters type (USACE and USEPA 2007): **Wetlands directly abutting RPWs that flow directly or indirectly into Traditional Navigable Waters (RPWWD)**

HGM type: **Riverine**

Mean Coefficient of Conservatism (mean C): **3.5** Floristic Quality Index (FQI): **26.2**

Additional remarks: **Many of the prairie species (*Andropogon gerardii*, *Chamaecrista fasciculata*, *Panicum virgatum*, *Pycnanthemum tenuifolium*, *Ratibida pinnata*, *Rudbeckia subtomentosa*, *Silphium laciniatum*, *Sorghastrum nutans*) have likely seeded in from the adjacent prairie planting. A total of 5.73 ac lies within the combined boundaries of the original project and this addendum.**

Site Number: 11

Community type: **Forested wetland**

National Wetlands Inventory code: **PFO1C (seasonally flooded, broad-leaved deciduous, forested, palustrine wetland) / PSS1C (seasonally flooded, broad-leaved deciduous, scrub-shrub, palustrine wetland)**

Site location: **Approximately 281 feet north of US 30**

Hydrophytic Vegetation? **Yes** Hydric Soils? **Yes** Wetland Hydrology? **Yes**

Is this site a wetland? **Yes**

Area of site occurring within the project corridor: **2.06 ac**

Total site area: **2.10 ac**

Is this site an Advanced Identification (ADID) High Habitat Value wetland? **No**

Is this site an Advanced Identification (ADID) High Functional Value wetland? **No**

Is this site a High Quality Aquatic Resource (HQAR) (USACE-CD 2012)? **Yes**

Rationale**: This site has an FQI > 20.**

Does this site meet U.S. Fish and Wildlife Service (FWS) criteria for potential *Platanthera leucophaea* (Eastern prairie fringed orchid) habitat (USFWS 2014)? **Yes**

Waters type (USACE and USEPA 2007): **Wetlands adjacent to non-RPWs that flow directly or indirectly into Traditional Navigable Waters (NRPWW)**

HGM type: **Depressional**

Mean Coefficient of Conservatism (mean C): **2.9** Floristic Quality Index (FQI): **21.7**

Additional remarks: **A total of 2.10 ac lies within the combined boundaries of the original project and this addendum.**

2014 wetland delineation sites

Site Number: 14

Community type: **Wet meadow**

National Wetlands Inventory code: **U (upland)**

Site location: **Approximately 573 feet west of Orchard Road**

Hydrophytic Vegetation? **Yes** Hydric Soils? **Yes** Wetland Hydrology? **Yes**
Is this site a wetland? **Yes**
Area of site occurring within the project corridor: **0.02 ac**
Total site area: **0.02 ac**
Is this site an Advanced Identification (ADID) High Habitat Value wetland? **No**
Is this site an Advanced Identification (ADID) High Functional Value wetland? **Yes**
Is this site a High Quality Aquatic Resource (HQAR) (USACE-CD 2012)? **Yes**
Rationale: **A portion of this site is an Advanced Identification (ADID) Site (Site 3196)**
Does this site meet U.S. Fish and Wildlife Service (FWS) criteria for potential *Platanthera leucophaea* (Eastern prairie fringed orchid) habitat (USFWS 2014)? **No**
Waters type (USACE and USEPA 2007): **Wetlands adjacent to but not directly abutting RPWs that flow directly or indirectly into Traditional Navigable Waters (RPWWN)**
HGM type: **Depressional**
Mean Coefficient of Conservatism (mean C): **1.4** Floristic Quality Index (FQI): **5.3**

Site Number: 15
Community type: **Wetland pond**
National Wetlands Inventory code: **PUBG (intermittently exposed, unconsolidated bottom, palustrine wetland) / PFO1C (seasonally flooded, broad-leaved deciduous, forested, palustrine wetland)**
Site location: **Approximately 749 feet west of Orchard Road**
Hydrophytic Vegetation? **Yes** Hydric Soils? **Yes** Wetland Hydrology? **Yes**
Is this site a wetland? **Yes**
Area of site occurring within the project corridor: **0.37 ac**
Total site area: **0.37 ac**
Is this site an Advanced Identification (ADID) High Habitat Value wetland? **No**
Is this site an Advanced Identification (ADID) High Functional Value wetland? **Yes**
Is this site a High Quality Aquatic Resource (HQAR) (USACE-CD 2012)? **Yes**
Rationale: **A portion of this site is an Advanced Identification (ADID) Site (Site 3196). Additionally, this site has a mean c-value > 3.5.**
Does this site meet U.S. Fish and Wildlife Service (FWS) criteria for potential *Platanthera leucophaea* (Eastern prairie fringed orchid) habitat (USFWS 2014)? **No**
Waters type (USACE and USEPA 2007): **Wetlands adjacent to but not directly abutting RPWs that flow directly or indirectly into Traditional Navigable Waters (RPWWN)**
HGM type: **Depressional**
Mean Coefficient of Conservatism (mean C): **4.5** Floristic Quality Index (FQI): **9.0**

Site Number: 16
Community type: **Upland forest**
National Wetlands Inventory code: **PFO1C (seasonally flooded, broad-leaved deciduous, forested, palustrine wetland)**
Site location: **Sampling point 16A approximately 808 feet west of Orchard Road**
Hydrophytic Vegetation? **Yes** Hydric Soils? **Yes** Wetland Hydrology? **No**
Is this site a wetland? **No**

Is this site an Advanced Identification (ADID) High Habitat Value wetland? **No**
Is this site an Advanced Identification (ADID) High Functional Value wetland? **No**

Site Number: 17
Community type: **Non-native grassland**
National Wetlands Inventory code: **PEMC (seasonally flooded, emergent, palustrine wetland)**
Site location: **Sampling point 17A approximately 626 feet west of Orchard Road**
Hydrophytic Vegetation? **Yes** Hydric Soils? **Yes** Wetland Hydrology? **No**
Is this site a wetland? **No**
Is this site an Advanced Identification (ADID) High Habitat Value wetland? **No**
Is this site an Advanced Identification (ADID) High Functional Value wetland? **No**

Site Number: 18
Community type: **Wet meadow**
National Wetlands Inventory code: **U (upland)**
Site location: **Approximately 114 feet west of Orchard Road**
Hydrophytic Vegetation? **Yes** Hydric Soils? **Yes** Wetland Hydrology? **Yes**
Is this site a wetland? **Yes**
Area of site occurring within the project corridor: **0.06 ac**
Total site area: **0.20 ac**
Is this site an Advanced Identification (ADID) High Habitat Value wetland? **No**
Is this site an Advanced Identification (ADID) High Functional Value wetland? **No**
Is this site a High Quality Aquatic Resource (HQAR) (USACE-CD 2012)? **No**
Does this site meet U.S. Fish and Wildlife Service (FWS) criteria for potential *Platanthera leucophaea* (Eastern prairie fringed orchid) habitat (USFWS 2014)? **No**
Waters type (USACE and USEPA 2007): **Wetlands adjacent to but not directly abutting RPWs that flow directly or indirectly into Traditional Navigable Waters (RPWWN)**
HGM type: **Depressional**
Mean Coefficient of Conservatism (mean C): **2.5** Floristic Quality Index (FQI): **11.0**

Site Number: 19
Community type: **Wet meadow**
National Wetlands Inventory code: **U (upland)**
Site location: **Approximately 101 feet east of Orchard Road**
Hydrophytic Vegetation? **Yes** Hydric Soils? **Yes** Wetland Hydrology? **Yes**
Is this site a wetland? **Yes**
Area of site occurring within the project corridor: **0.18 ac**
Total site area: **0.20 ac**
Is this site an Advanced Identification (ADID) High Habitat Value wetland? **No**
Is this site an Advanced Identification (ADID) High Functional Value wetland? **No**
Is this site a High Quality Aquatic Resource (HQAR) (USACE-CD 2012)? **No**
Does this site meet U.S. Fish and Wildlife Service (FWS) criteria for potential *Platanthera leucophaea* (Eastern prairie fringed orchid) habitat (USFWS 2014)? **No**

Waters type (USACE and USEPA 2007): **Isolated interstate or intrastate waters including isolated wetlands (ISOLATE)**
HGM type: **Depressional**
Mean Coefficient of Conservatism (mean C): **2.9** Floristic Quality Index (FQI): **12.3**

Site Number: 20
Community type: **Wet meadow**
National Wetlands Inventory code: **U (upland)**
Site location: **Approximately 673 feet north of US 30**
Hydrophytic Vegetation? **Yes** Hydric Soils? **Yes** Wetland Hydrology? **Yes**
Is this site a wetland? **Yes**
Area of site occurring within the project corridor: **0.24 ac**
Total site area: **0.24 ac**
Is this site an Advanced Identification (ADID) High Habitat Value wetland? **No**
Is this site an Advanced Identification (ADID) High Functional Value wetland? **Yes**
Is this site a High Quality Aquatic Resource (HQAR) (USACE-CD 2012)? **Yes**
Rationale: **A portion of this site is an Advanced Identification (ADID) Site (Site 3423)**
Does this site meet U.S. Fish and Wildlife Service (FWS) criteria for potential *Platanthera leucophaea* (Eastern prairie fringed orchid) habitat (USFWS 2014)? **No**
Waters type (USACE and USEPA 2007): **Wetlands adjacent to non-RPWs that flow directly or indirectly into Traditional Navigable Waters (NRPWW)**
HGM type: **Depressional**
Mean Coefficient of Conservatism (mean C): **2.4** Floristic Quality Index (FQI): **12.3**

Site Number: 21
Community type: **Wet meadow**
National Wetlands Inventory code: **U (upland)**
Site location: **Approximately 21 feet east and 75 feet west of Albright Road**
Hydrophytic Vegetation? **Yes** Hydric Soils? **Yes** Wetland Hydrology? **Yes**
Is this site a wetland? **Yes**
Area of site occurring within the project corridor: **0.26 ac**
Total site area: **0.26 ac**
Is this site an Advanced Identification (ADID) High Habitat Value wetland? **No**
Is this site an Advanced Identification (ADID) High Functional Value wetland? **No**
Is this site a High Quality Aquatic Resource (HQAR) (USACE-CD 2012)? **No**
Does this site meet U.S. Fish and Wildlife Service (FWS) criteria for potential *Platanthera leucophaea* (Eastern prairie fringed orchid) habitat (USFWS 2014)? **No**
Waters type (USACE and USEPA 2007): **Wetlands adjacent to non-RPWs that flow directly or indirectly into Traditional Navigable Waters (NRPWW)**
HGM type: **Depressional**
Mean Coefficient of Conservatism (mean C): **1.2** Floristic Quality Index (FQI): **4.4**

Site Number: 22
Community type: **Wetland pond**

National Wetlands Inventory code: **U (upland)**
Site location: **Approximately 11 feet northwest of IL 31**
Hydrophytic Vegetation? **Yes** Hydric Soils? **Yes** Wetland Hydrology? **Yes**
Is this site a wetland? **Yes**
Area of site occurring within the project corridor: **1.01 ac**
Total site area: **1.01 ac**
Is this site an Advanced Identification (ADID) High Habitat Value wetland? **No**
Is this site an Advanced Identification (ADID) High Functional Value wetland? **No**
Is this site a High Quality Aquatic Resource (HQAR) (USACE-CD 2012)? **No**
Does this site meet U.S. Fish and Wildlife Service (FWS) criteria for potential *Platanthera leucophaea* (Eastern prairie fringed orchid) habitat (USFWS 2014)? **No**
Waters type (USACE and USEPA 2007): **Wetlands adjacent to but not directly abutting RPWs that flow directly or indirectly into Traditional Navigable Waters (RPWWN)**
HGM type: **Depressional**
Mean Coefficient of Conservatism (mean C): **2.1** Floristic Quality Index (FQI): **9.0**

Site Number: 23
Community type: **Wetland pond**
National Wetlands Inventory code: **U (upland)**
Site location: **Multiple pieces beginning approximately 42 feet northwest of IL 31**
Hydrophytic Vegetation? **Yes** Hydric Soils? **Yes** Wetland Hydrology? **Yes**
Is this site a wetland? **Yes**
Area of site occurring within the project corridor: **1.54 ac**
Total site area: **1.54 ac**
Is this site an Advanced Identification (ADID) High Habitat Value wetland? **No**
Is this site an Advanced Identification (ADID) High Functional Value wetland? **No**
Is this site a High Quality Aquatic Resource (HQAR) (USACE-CD 2012)? **No**
Does this site meet U.S. Fish and Wildlife Service (FWS) criteria for potential *Platanthera leucophaea* (Eastern prairie fringed orchid) habitat (USFWS 2014)? **No**
Waters type (USACE and USEPA 2007): **Wetlands adjacent to but not directly abutting RPWs that flow directly or indirectly into Traditional Navigable Waters (RPWWN)**
HGM type: **Depressional**
Mean Coefficient of Conservatism (mean C): **3.2** Floristic Quality Index (FQI): **14.1**
Additional remarks: **The multiple pieces of this site are all hydrologically connected by subsurface water flow and non-WOUS, riprap-covered overflow areas constructed on the basin boundaries.**

Site Number: 24
Community type: **Wet meadow**
National Wetlands Inventory code: **U (upland)**
Site location: **Approximately 372 feet east of Albright Road**
Hydrophytic Vegetation? **Yes** Hydric Soils? **Yes** Wetland Hydrology? **Yes**
Is this site a wetland? **Yes**
Area of site occurring within the project corridor: **0.02 ac**

Total site area: **0.03 ac**
Is this site an Advanced Identification (ADID) High Habitat Value wetland? **No**
Is this site an Advanced Identification (ADID) High Functional Value wetland? **No**
Is this site a High Quality Aquatic Resource (HQAR) (USACE-CD 2012)? **Yes**
Rationale: **A portion of this site is an Advanced Identification (ADID) Site (Site 3421)**
Does this site meet U.S. Fish and Wildlife Service (FWS) criteria for potential *Platanthera leucophaea* (Eastern prairie fringed orchid) habitat (USFWS 2014)? **No**
Waters type (USACE and USEPA 2007): **Wetlands adjacent to but not directly abutting RPWs that flow directly or indirectly into Traditional Navigable Waters (RPWWN)**
HGM type: **Depressional**
Mean Coefficient of Conservatism (mean C): **3.0** Floristic Quality Index (FQI): **7.9**

Site Number: 25
Community type: **Wet meadow**
National Wetlands Inventory code: **U (upland)**
Site location: **Approximately 366 feet north of US 30**
Hydrophytic Vegetation? **Yes** Hydric Soils? **Yes** Wetland Hydrology? **Yes**
Is this site a wetland? **Yes**
Area of site occurring within the project corridor: **0.64 ac**
Total site area: **0.64 ac**
Is this site an Advanced Identification (ADID) High Habitat Value wetland? **No**
Is this site an Advanced Identification (ADID) High Functional Value wetland? **No**
Is this site a High Quality Aquatic Resource (HQAR) (USACE-CD 2012)? **No**
Does this site meet U.S. Fish and Wildlife Service (FWS) criteria for potential *Platanthera leucophaea* (Eastern prairie fringed orchid) habitat (USFWS 2014)? **No**
Waters type (USACE and USEPA 2007): **Wetlands adjacent to but not directly abutting RPWs that flow directly or indirectly into Traditional Navigable Waters (RPWWN)**
HGM type: **Depressional**
Mean Coefficient of Conservatism (mean C): **1.3** Floristic Quality Index (FQI): **2.5**

Site Number: 26
Community type: **Wet shrubland**
National Wetlands Inventory code: **U (upland)**
Site location: **Approximately 285 feet west of IL 31**
Hydrophytic Vegetation? **Yes** Hydric Soils? **Yes** Wetland Hydrology? **Yes**
Is this site a wetland? **Yes**
Area of site occurring within the project corridor: **0.12 ac**
Total site area: **0.15 ac**
Is this site an Advanced Identification (ADID) High Habitat Value wetland? **No**
Is this site an Advanced Identification (ADID) High Functional Value wetland? **No**
Is this site a High Quality Aquatic Resource (HQAR) (USACE-CD 2012)? **Yes**
Rationale: **A portion of this site is an Advanced Identification (ADID) Site (Site 3434)**
Does this site meet U.S. Fish and Wildlife Service (FWS) criteria for potential *Platanthera leucophaea* (Eastern prairie fringed orchid) habitat (USFWS 2014)? **No**

Waters type (USACE and USEPA 2007): **Wetlands directly abutting RPWs that flow directly or indirectly into Traditional Navigable Waters (RPWWD)**
HGM type: **Riverine**
Mean Coefficient of Conservatism (mean C): **2.1** Floristic Quality Index (FQI): **6.0**

Site Number: 27
Community type: **Wetland pond**
National Wetlands Inventory code: **PEMF (semipermanently flooded, emergent, palustrine wetland)**
Site location: **Approximately 282 feet north of US 30**
Hydrophytic Vegetation? **Yes** Hydric Soils? **Yes** Wetland Hydrology? **Yes**
Is this site a wetland? **Yes**
Area of site occurring within the project corridor: **5.31 ac**
Total site area: **Undetermined**
Is this site an Advanced Identification (ADID) High Habitat Value wetland? **No**
Is this site an Advanced Identification (ADID) High Functional Value wetland? **No**
Is this site a High Quality Aquatic Resource (HQAR) (USACE-CD 2012)? **No**
Does this site meet U.S. Fish and Wildlife Service (FWS) criteria for potential *Platanthera leucophaea* (Eastern prairie fringed orchid) habitat (USFWS 2014)? **No**
Waters type (USACE and USEPA 2007): **Wetlands adjacent to but not directly abutting RPWs that flow directly or indirectly into Traditional Navigable Waters (RPWWN)**
HGM type: **Depressional**
Mean Coefficient of Conservatism (mean C): **3.1** Floristic Quality Index (FQI): **17.4**

Site Number: 28
Community type: **Mesic floodplain forest**
National Wetlands Inventory code: **PSS1C (seasonally flooded, broad-leaved deciduous, scrub-shrub, palustrine wetland)**
Site location: **Sampling point 28A approximately 819 feet north of US 30**
Hydrophytic Vegetation? **Yes** Hydric Soils? **No** Wetland Hydrology? **No**
Is this site a wetland? **No**
Is this site an Advanced Identification (ADID) High Habitat Value wetland? **No**
Is this site an Advanced Identification (ADID) High Functional Value wetland? **No**

Wetland Determination Site Summary Table

Site no.	NWI code	Community type	Area (ac.)[1]	>50%[2]	FQI	Mean C	ADID[3]	HQAR[4]	Waters type
6	PEMC/ PEMAf	Wet meadow	5.58	Yes	26.2	3.5	HFV	Yes	RPWWD
8	U	Forested wetland	0.30	No	7.8	2.1	HFV	Yes	NRPWW
11	PFO1C/ PSS1C	Forested wetland	2.06	Yes	21.7	2.9	None	Yes	NRPWW
14	U	Wet meadow	0.02	Yes	5.3	1.4	HFV	Yes	RPWWN
15	PUBG/ PFO1C	Wetland pond	0.37	Yes	9.0	4.5	HFV	Yes	RPWWN
18	U	Wet meadow	0.06	No	11.0	2.5	None	No	RPWWN
19	U	Wet meadow	0.18	Yes	12.3	2.9	None	No	ISOLATE
20	U	Wet meadow	0.24	Yes	12.3	2.4	HFV	Yes	NRPWW
21	U	Wet meadow	0.26	Yes	4.4	1.2	None	No	NRPWW
22	U	Wetland pond	1.01	Yes	9.0	2.1	None	No	RPWWN
23	U	Wetland pond	1.54	Yes	14.1	3.2	None	No	RPWWN
24	U	Wet meadow	0.02	Yes	7.9	3.0	None	Yes	RPWWN
25	U	Wet meadow	0.64	Yes	2.5	1.3	None	No	RPWWN
26	U	Wet shrubland	0.12	Yes	6.0	2.1	None	Yes	RPWWD
27	PEMF	Wetland pond	5.31	Yes	17.4	3.1	None	No	RPWWN

[1] Area within the ESR project limits. [2] In our best professional judgment is more than 50% of the total site area within the ESR project limits? [3] Is this site an Advanced Identification High Habitat Value wetland (HHV) or a High Functional Value wetland (HFV)? [4] Is this site a High Quality Aquatic Resource?

Waters of the United States

2013 Waters of the United States sites

Sites W1 to W5 are from the original wetland survey conducted for this project in 2013 (Wiesbrook *et al.*, 2013). Sites W2 and W3 were further digitized and included in this report because they extended into the Addendum. Measurements below include only the area or length of the site in this Addendum.

Site Number: W2
Site Name: **Blackberry Creek**
Site Location: **Crosses US 30 approximately 211 feet west of Orchard Road.**
Latitude: **41.72256** Longitude: **- 88.37635**
Community type: **Stream**
National Wetlands Inventory code: **R2UBH (permanently flooded, unconsolidated bottom, lower perennial, riverine wetland)**
Area of site occurring within the project corridor: **0.96 ac**
Linear feet: **761 ft**
Waters type (USACE 2007): **RPW (Relatively Permanent Waters that flow directly or indirectly into Traditional Navigable Waters)**
USGS 8-Digit Hydrologic Unit Code (HUC): **07120007 (Lower Fox River)**
Watershed area: **57.6 mi^2 (USGS 2014)**
Riffles observed? **No** Pools observed? **No**
Mussel shell material observed? **Yes**
Is the stream or body of water permanent? **Yes**
Was this site mapped as a high quality stream, river, or ditch? **No**
Is this site a High Quality Aquatic Resource (HQAR) (USACE-CD 2012)? **Yes**
Rationale: **This stream is mapped as Biologically Significant in the Illinois Biological Stream Characterization Study (IDNR 2008).**
Is the stream identified by the IDNR (2008) as a biologically significant stream? **Yes**
Stream Integrity Rating: **B** Stream Diversity Rating: **B**

Site Number: W3
Site Name: **Unnamed tributary to Blackberry Creek**
Site Location: **Approximately 81 feet north of US 30**
Latitude: **41.72312** Longitude: **- 88.37584**
Community type: **Stream/Ditch**
National Wetlands Inventory code: **U (upland)**
Area of site occurring within the project corridor: **0.02 ac**
Linear feet: **339 ft**
Waters type (USACE 2007): **NRPW (Non-RPWs that flow directly or indirectly into Traditional Navigable Waters)**
USGS 8-Digit Hydrologic Unit Code (HUC): **07120007 (Lower Fox River)**
Watershed area: **<1 mi^2 (USGS 2014)**

Riffles observed? **No** Pools observed? **No**
Mussel shell material observed? **No**
Is the stream or body of water permanent? **No**
Was this site mapped as a high quality stream, river, or ditch? **No**
Is this site a High Quality Aquatic Resource (HQAR) (USACE-CD 2012)? **No**
Is the stream identified by the IDNR (2008) as a biologically significant stream? **No**
Stream Integrity Rating: **Not Rated** Stream Diversity Rating: **Not Rated**

2014 Waters of the United States sites

Site Number: W6
Site Name: **Unnamed tributary to Fox River 1**
Site Location: **Approximately 26 feet south of US 30**
Latitude: **41.72397** Longitude: **- 88.36437**
Community type: **Stream/Ditch**
National Wetlands Inventory code: **U (upland)**
Area of site occurring within the project corridor: **0.08 ac**
Linear feet: **616 ft**
Waters type (USACE 2007): **NRPW (Non-RPWs that flow directly or indirectly into Traditional Navigable Waters)**
USGS 8-Digit Hydrologic Unit Code (HUC): **07120007 (Lower Fox River)**
Watershed area: **<1 mi^2 (USGS 2014)**
Riffles observed? **No** Pools observed? **No**
Mussel shell material observed? **No**
Is the stream or body of water permanent? **No**
Was this site mapped as a high quality stream, river, or ditch? **No**
Is this site a High Quality Aquatic Resource (HQAR) (USACE-CD 2012)? **Yes**
Rationale: **A portion of this site is an Advanced Identification (ADID) Site (Sites 3426 + 3445)**
Is the stream identified by the IDNR (2008) as a biologically significant stream? **No**
Stream Integrity Rating: **Not Rated** Stream Diversity Rating: **Not Rated**

Site Number: W7
Site Name: **Ditch**
Site Location: **Approximately 676 feet north of US 30**
Latitude: **41.72755** Longitude: **- 88.36305**
Community type: **Ditch**
National Wetlands Inventory code: **U (upland)**
Area of site occurring within the project corridor: **0.07 ac**
Linear feet: **517 ft**
Waters type (USACE 2007): **NRPW (Non-RPWs that flow directly or indirectly into Traditional Navigable Waters)**
USGS 8-Digit Hydrologic Unit Code (HUC): **07120007 (Lower Fox River)**
Watershed area: **<1 mi^2 (USGS 2014)**

Riffles observed? **No** Pools observed? **No**
Mussel shell material observed? **No**
Is the stream or body of water permanent? **No**
Was this site mapped as a high quality stream, river, or ditch? **No**
Is this site a High Quality Aquatic Resource (HQAR) (USACE-CD 2012)? **No**
Is the stream identified by the IDNR (2008) as a biologically significant stream? **No**
Stream Integrity Rating: **Not Rated** Stream Diversity Rating: **Not Rated**

Site Number: W8
Site Name: **Unnamed tributary to Fox River 2**
Site Location: **Approximately 18 feet west of albright Road**
Latitude: **41.72396** Longitude: **- 88.35464**
Community type: **Stream/Ditch**
National Wetlands Inventory code: **U (upland)**
Area of site occurring within the project corridor: **0.07 ac**
Linear feet: **202 ft**
Waters type (USACE 2007): **NRPW (Non-RPWs that flow directly or indirectly into Traditional Navigable Waters)**
USGS 8-Digit Hydrologic Unit Code (HUC): **07120007 (Lower Fox River)**
Watershed area: **<1 mi^2 (USGS 2014)**
Riffles observed? **No** Pools observed? **No**
Mussel shell material observed? **No**
Is the stream or body of water permanent? **No**
Was this site mapped as a high quality stream, river, or ditch? **No**
Is this site a High Quality Aquatic Resource (HQAR) (USACE-CD 2012)? **No**
Is the stream identified by the IDNR (2008) as a biologically significant stream? **No**
Stream Integrity Rating: **Not Rated** Stream Diversity Rating: **Not Rated**

Site Number: W9
Site Name: **Unnamed tributary to Fox River 3**
Site Location: **Approximately 19 feet southeast of IL 31**
Latitude: **41.71981** Longitude: **- 88.35266**
Community type: **Stream**
National Wetlands Inventory code: **U (upland)**
Area of site occurring within the project corridor: **0.77 ac**
Linear feet: **3466 ft**
Waters type (USACE 2007): **RPW (Relatively Permanent Waters that flow directly or indirectly into Traditional Navigable Waters)**
USGS 8-Digit Hydrologic Unit Code (HUC): **07120007 (Lower Fox River)**
Watershed area: **2.7 mi^2 (USGS 2014)**
Riffles observed? **Yes** Pools observed? **Yes**
Mussel shell material observed? **Yes**
Is the stream or body of water permanent? **Yes**
Was this site mapped as a high quality stream, river, or ditch? **No**

Is this site a High Quality Aquatic Resource (HQAR) (USACE-CD 2012)? **No**
Is the stream identified by the IDNR (2008) as a biologically significant stream? **No**
Stream Integrity Rating: **Not Rated** Stream Diversity Rating: **Not Rated**

Site Number: W10
Site Name: **Unnamed tributary to Fox River 4**
Site Location: **Approximately 438 feet east ofAlbright Road**
Latitude: **41.72619** Longitude: **- 88.35259**
Community type: **Stream**
National Wetlands Inventory code: **U (upland)**
Area of site occurring within the project corridor: **0.13 ac**
Linear feet: **581 ft**
Waters type (USACE 2007): **RPW (Relatively Permanent Waters that flow directly or indirectly into Traditional Navigable Waters)**
USGS 8-Digit Hydrologic Unit Code (HUC): **07120007 (Lower Fox River)**
Watershed area: **1.8 mi^2 (USGS 2014)**
Riffles observed? **Yes** Pools observed? **No**
Mussel shell material observed? **No**
Is the stream or body of water permanent? **Yes**
Was this site mapped as a high quality stream, river, or ditch? **No**
Is this site a High Quality Aquatic Resource (HQAR) (USACE-CD 2012)? **Yes**
Rationale: **A portion of this site is an Advanced Identification (ADID) Site (Site 3421)**
Is the stream identified by the IDNR (2008) as a biologically significant stream? **No**
Stream Integrity Rating: **Not Rated** Stream Diversity Rating: **Not Rated**

Threatened/Endangered Species and Natural Communities of Special Interest

No species listed as threatened or endangered federally or in Illinois were found during our wetland survey within the project corridor. Also, no natural communities of special interest were noted.

A preliminary tree assessment for presence of suitable summer roosting sites for the Indiana bat and the northern long-eared bat was conducted. There were several trees (>3 in DBH) found within the construction limits inside the project corridor with cavities or loose or peeling bark. The majority of these trees occurred in the area adjacent to Blackberry Creek and also in the remaining project area existing east of Orchard Road.

In addition, no bats were observed during a visual search of the underside of the bridge deck over Blackberry Creek at the time of the site visit.

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APPENDIX A

Wetland Determination Forms

WETLAND DETERMINATION DATA FORM - Midwest Region

Project/Site: US 30 - Baseline Road (FAP 349) City/County: Kane Sampling Date 10/6/2014

Applicant/Owner: IDOT District 1 State: IL Sampling Point 6D

Investigator(s): Kenney, Marcum Section, Township, Range: Sec. 36, T38N, R7E

Landform (hillslope, terrace, etc.): Depression on floodplain Local relief (concave, convex, none): Concave

Slope (%): 0-2 Lat: 41.72601 Long: -88.37815 Datum: NAD 83

Soil Map Unit Name: Millington silt loam, 0-2% slopes, freq. flooded NWI classification: PEMC

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

Are Vegetation No, Soil No, or Hydrology No significantly disturbed? Are "Normal Circumstances" present? Yes

Are Vegetation No, Soil No, or Hydrology No 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	**Is the Sampled Area within a Wetland?** **Yes**
Hydric Soil Present?	Yes	
Wetland Hydrology Present?	Yes	

Remarks: Community type is wet meadow.

VEGETATION - Use scientific names of plants.

Tree Stratum (Plot size: 30 ft radius)	Absolute % Cover	Dominant Species?	Indicator Status
1. *Salix nigra*	3	No	OBL
2. *Acer saccharinum*	1	No	FACW
3.			
4.			
5.			
	4	= Total Cover	
Sapling/Shrub Stratum (Plot size: 15 ft radius)			
1.			
2.			
3.			
4.			
5.			
	0	= Total Cover	
Herb Stratum (Plot size: 5 ft radius)			
1. *Phalaris arundinacea*	95	Yes	FACW
2. *Urtica procera*	1	No	FACW
3.			
4.			
5.			
6.			
7.			
8.			
9.			
10.			
	96	= Total Cover	
Woody Vine Stratum (Plot size: 30 ft radius)			
1. *Vitis riparia*	1	No	FACW
2.			
	1	= Total Cover	

Dominance Test worksheet:

Number of Dominant Species That are OBL, FACW, or FAC: _____ (A)

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

Percent of Dominant Species That are OBL, FACW, or FAC: _____ (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] 1-Rapid Test for Hydrophytic Vegetation
- [ ] 2-Dominance Test is >50%
- [ ] 3-Prevalence Index is < or =3.0[1]
- [ ] 4-Morphological Adaptations[1] (Provide supporting data in Remarks or on a 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**

Remarks: (Include photo numbers here or on a separate sheet.)

SOIL

Sampling Point: 6D

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 Features %	Type[1]	Loc[2]	Texture	Remarks
0-7	10YR 3/1	91	7.5YR 4/4	9	C	M	SIL	

[1] Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. [2] Location: PL=Pore Lining, M=Matrix

Hydric Soil Indicators:

- ☐ Histosol (A1)
- ☐ Histic Epipedon (A2)
- ☐ Black Histic (A3)
- ☐ Hydrogen Sulfide (A4)
- ☐ Stratified Layers (A5)
- ☐ 2 cm Muck (A10)
- ☐ Depleted Below Dark Surface (A11)
- ☐ Thick Dark Surface (A12)
- ☐ Sandy Mucky Mineral (S1)
- ☐ 5 cm Mucky Peat or Peat (S3)
- ☐ 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)

Indicators for Problematic Hydric Soils[3]:

- ☐ Coast Prairie Redox (A16)
- ☐ Dark Surface (S7)
- ☐ Iron-Manganese Masses (F12)
- ☐ Very Shallow Dark Surface (TF12)
- ☐ Other (Explain in Remarks)

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

Restrictive Layer (if observed):

Type: _____

Depth (inches): _____

Hydric Soil Present? **Yes**

Remarks:

HYDROLOGY

Wetland Hydrology Indicators:

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

- ☐ Surface Water (A1)
- ☐ High Water Table (A2)
- ☐ Saturation (A3)
- ☐ Water Marks (B1)
- ☐ Sediment Deposits (B2)
- ☑ Drift Deposits (B3)
- ☐ Algal Mat or Crust (B4)
- ☐ Iron Deposits (B5)
- ☐ Inundation Visible on Aerial Imagery (B7)
- ☐ Sparsely Vegetated Concave Surface (B8)
- ☐ Water-Stained Leaves (B9)
- ☐ Aquatic Fauna (B13)
- ☐ True Aquatic Plants (B14)
- ☐ Hydrogen Sulfide Odor (C1)
- ☐ Oxidized Rhizospheres on Living Roots (C3)
- ☐ Presence of Reduced Iron (C4)
- ☐ Recent Iron Reduction in Tilled Soils (C6)
- ☐ Thin Muck Surface (C7)
- ☐ Gauge or Well Data (D9)
- ☐ Other (Explain in Remarks)

Secondary Indicators (minimum of two is required)

- ☐ Surface Soil Cracks (B6)
- ☐ Drainage Patterns (B10)
- ☐ Dry-Season Water Table (C2)
- ☐ Crayfish Burrows (C8)
- ☐ Saturation Visible on Aerial Imagery (C9)
- ☐ Stunted or Stressed Plants (D1)
- ☑ Geomorphic Position (D2)
- ☑ FAC-Neutral Test (D5)

Field Observations:

Surface Water Present? No Depth (inches): _____

Water Table Present? No Depth (inches): _____

Saturation Present? (includes capillary fringe) No Depth (inches): _____

Wetland Hydrology Present? **Yes**

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

Remarks:

WETLAND DETERMINATION DATA FORM - Midwest Region

Project/Site: US 30 - Baseline Road (FAP 349) City/County: Kane Sampling Date 10/6/2014

Applicant/Owner: IDOT District 1 State: IL Sampling Point 6E

Investigator(s): Kenney, Marcum Section, Township, Range: Sec. 36, T38N, R7E

Landform (hillslope, terrace, etc.): Floodplain Local relief (concave, convex, none): None

Slope (%): 0 Lat: 41.72583 Long: -88.37820 Datum: NAD 83

Soil Map Unit Name: Millington silt loam, 0-2% slopes, freq. flooded NWI classification: PEMC

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

Are Vegetation No, Soil No, or Hydrology No significantly disturbed? Are "Normal Circumstances" present? Yes

Are Vegetation No, Soil No, or Hydrology No 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?	No	**Is the Sampled Area within a Wetland?** **No**
Hydric Soil Present?	No	
Wetland Hydrology Present?	No	

Remarks: Community type is non-native grassland.

VEGETATION - Use scientific names of plants.

Tree Stratum (Plot size: 30 ft radius)	Absolute % Cover	Dominant Species?	Indicator Status
1.			
2.			
3.			
4.			
5.			
	0	= Total Cover	

Sapling/Shrub Stratum (Plot size: 15 ft radius)			
1.			
2.			
3.			
4.			
5.			
	0	= Total Cover	

Herb Stratum (Plot size: 5 ft radius)			
1. *Poa pratensis*	50	Yes	FAC
2. *Glechoma hederacea*	35	Yes	FACU
3. *Festuca elatior*	15	No	FACU
4. *Agrostis alba*	10	No	FACW
5.			
6.			
7.			
8.			
9.			
10.			
	110	= Total Cover	

Woody Vine Stratum (Plot size: 30 ft radius)			
1.			
2.			
	0	= Total Cover	

Dominance Test worksheet:

Number of Dominant Species That are OBL, FACW, or 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		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

- ☐ 1-Rapid Test for Hydrophytic Vegetation
- ☐ 2-Dominance Test is >50%
- ☐ 3-Prevalence Index is < or =3.0[1]
- ☐ 4-Morphological Adaptations[1] (Provide supporting data in Remarks or on a 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? **No**

Remarks: (Include photo numbers here or on a separate sheet.)

SOIL

Sampling Point: 6E

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 Features %	Type[1]	Loc[2]	Texture	Remarks
0-12	10YR 3/2	100					SIL	

[1] Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. [2] Location: PL=Pore Lining, M=Matrix

Hydric Soil Indicators:

- ☐ Histosol (A1)
- ☐ Histic Epipedon (A2)
- ☐ Black Histic (A3)
- ☐ Hydrogen Sulfide (A4)
- ☐ Stratified Layers (A5)
- ☐ 2 cm Muck (A10)
- ☐ Depleted Below Dark Surface (A11)
- ☐ Thick Dark Surface (A12)
- ☐ Sandy Mucky Mineral (S1)
- ☐ 5 cm Mucky Peat or Peat (S3)
- ☐ 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)

Indicators for Problematic Hydric Soils[3]:

- ☐ Coast Prairie Redox (A16)
- ☐ Dark Surface (S7)
- ☐ Iron-Manganese Masses (F12)
- ☐ Very Shallow Dark Surface (TF12)
- ☐ Other (Explain in Remarks)

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

Restrictive Layer (if observed):

Type: _____

Depth (inches): _____

Hydric Soil Present? **No**

Remarks:

HYDROLOGY

Wetland Hydrology Indicators:

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

- ☐ Surface Water (A1)
- ☐ High Water Table (A2)
- ☐ Saturation (A3)
- ☐ Water Marks (B1)
- ☐ Sediment Deposits (B2)
- ☐ Drift Deposits (B3)
- ☐ Algal Mat or Crust (B4)
- ☐ Iron Deposits (B5)
- ☐ Inundation Visible on Aerial Imagery (B7)
- ☐ Sparsely Vegetated Concave Surface (B8)
- ☐ Water-Stained Leaves (B9)
- ☐ Aquatic Fauna (B13)
- ☐ True Aquatic Plants (B14)
- ☐ Hydrogen Sulfide Odor (C1)
- ☐ Oxidized Rhizospheres on Living Roots (C3)
- ☐ Presence of Reduced Iron (C4)
- ☐ Recent Iron Reduction in Tilled Soils (C6)
- ☐ Thin Muck Surface (C7)
- ☐ Gauge or Well Data (D9)
- ☐ Other (Explain in Remarks)

Secondary Indicators (minimum of two is required)

- ☐ Surface Soil Cracks (B6)
- ☐ Drainage Patterns (B10)
- ☐ Dry-Season Water Table (C2)
- ☐ Crayfish Burrows (C8)
- ☐ Saturation Visible on Aerial Imagery (C9)
- ☐ Stunted or Stressed Plants (D1)
- ☐ Geomorphic Position (D2)
- ☐ FAC-Neutral Test (D5)

Field Observations:

Surface Water Present? No Depth (inches): _____

Water Table Present? No Depth (inches): _____

Saturation Present? (includes capillary fringe) No Depth (inches): _____

Wetland Hydrology Present? **No**

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

Remarks:

WETLAND DETERMINATION DATA FORM - Midwest Region

Project/Site: US 30 - Baseline Road (FAP 349) City/County: Kendall Sampling Date 10/7/2014

Applicant/Owner: IDOT District 1 State: IL Sampling Point 6F

Investigator(s): Kenney, Marcum Section, Township, Range: Sec. 1, T37N, R7E

Landform (hillslope, terrace, etc.): Depression on floodplain Local relief (concave, convex, none): Concave

Slope (%): 0-2 Lat: 41.72120 Long: -88.37782 Datum: NAD 83

Soil Map Unit Name: Millington silt loam, 0-2% slopes, freq. flooded NWI classification: PEMAf

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

Are Vegetation No, Soil No, or Hydrology No significantly disturbed? Are "Normal Circumstances" present? Yes

Are Vegetation No, Soil No, or Hydrology No 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	**Is the Sampled Area within a Wetland?** **Yes**
Hydric Soil Present?	Yes	
Wetland Hydrology Present?	Yes	

Remarks: Community type is wet meadow.

VEGETATION - Use scientific names of plants.

Tree Stratum (Plot size: 30 ft radius)	Absolute % Cover	Dominant Species?	Indicator Status
1. *Acer saccharinum*	3	No	FACW
2.			
3.			
4.			
5.			
	3	= Total Cover	

Sapling/Shrub Stratum (Plot size: 15 ft radius)			
1.			
2.			
3.			
4.			
5.			
	0	= Total Cover	

Herb Stratum (Plot size: 5 ft radius)			
1. *Phalaris arundinacea*	95	Yes	FACW
2.			
3.			
4.			
5.			
6.			
7.			
8.			
9.			
10.			
	95	= Total Cover	

Woody Vine Stratum (Plot size: 30 ft radius)			
1.			
2.			
	0	= Total Cover	

Dominance Test worksheet:

Number of Dominant Species That are OBL, FACW, or FAC: _____ (A)

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

Percent of Dominant Species That are OBL, FACW, or FAC: _____ (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] 1-Rapid Test for Hydrophytic Vegetation
- [ ] 2-Dominance Test is >50%
- [ ] 3-Prevalence Index is < or =3.0[1]
- [ ] 4-Morphological Adaptations[1] (Provide supporting data in Remarks or on a 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**

Remarks: (Include photo numbers here or on a separate sheet.)

SOIL

Sampling Point: 6F

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 Features %	Type[1]	Loc[2]	Texture	Remarks
0-7	10YR 2/1	100					SIL	
7-13	10YR 3/1	80	7.5YR 3/4	20	C	M	SIL	

[1] Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. [2] Location: PL=Pore Lining, M=Matrix

Hydric Soil Indicators:

- ☐ Histosol (A1)
- ☐ Histic Epipedon (A2)
- ☐ Black Histic (A3)
- ☐ Hydrogen Sulfide (A4)
- ☐ Stratified Layers (A5)
- ☐ 2 cm Muck (A10)
- ☐ Depleted Below Dark Surface (A11)
- ☐ Thick Dark Surface (A12)
- ☐ Sandy Mucky Mineral (S1)
- ☐ 5 cm Mucky Peat or Peat (S3)
- ☐ 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)

Indicators for Problematic Hydric Soils[3]:

- ☐ Coast Prairie Redox (A16)
- ☐ Dark Surface (S7)
- ☐ Iron-Manganese Masses (F12)
- ☐ Very Shallow Dark Surface (TF12)
- ☐ Other (Explain in Remarks)

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

Restrictive Layer (if observed):

Type: _____

Depth (inches): _____

Hydric Soil Present? **Yes**

Remarks:

HYDROLOGY

Wetland Hydrology Indicators:

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

- ☐ Surface Water (A1)
- ☐ High Water Table (A2)
- ☐ Saturation (A3)
- ☐ Water Marks (B1)
- ☐ Sediment Deposits (B2)
- ☐ Drift Deposits (B3)
- ☐ Algal Mat or Crust (B4)
- ☐ Iron Deposits (B5)
- ☐ Inundation Visible on Aerial Imagery (B7)
- ☐ Sparsely Vegetated Concave Surface (B8)
- ☐ Water-Stained Leaves (B9)
- ☐ Aquatic Fauna (B13)
- ☐ True Aquatic Plants (B14)
- ☐ Hydrogen Sulfide Odor (C1)
- ☐ Oxidized Rhizospheres on Living Roots (C3)
- ☐ Presence of Reduced Iron (C4)
- ☐ Recent Iron Reduction in Tilled Soils (C6)
- ☐ Thin Muck Surface (C7)
- ☐ Gauge or Well Data (D9)
- ☐ Other (Explain in Remarks)

Secondary Indicators (minimum of two is required)

- ☐ Surface Soil Cracks (B6)
- ☐ Drainage Patterns (B10)
- ☐ Dry-Season Water Table (C2)
- ☐ Crayfish Burrows (C8)
- ☐ Saturation Visible on Aerial Imagery (C9)
- ☐ Stunted or Stressed Plants (D1)
- ☑ Geomorphic Position (D2)
- ☑ FAC-Neutral Test (D5)

Field Observations:

Surface Water Present? No Depth (inches): _____

Water Table Present? No Depth (inches): _____

Saturation Present? (includes capillary fringe) No Depth (inches): _____

Wetland Hydrology Present? **Yes**

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

Remarks:

WETLAND DETERMINATION DATA FORM - Midwest Region

Project/Site: US 30 - Baseline Road (FAP 349) City/County: Kendall Sampling Date 10/7/2014

Applicant/Owner: IDOT District 1 State: IL Sampling Point 6G

Investigator(s): Kenney, Marcum Section, Township, Range: Sec. 1, T37N, R7E

Landform (hillslope, terrace, etc.): Floodplain Local relief (concave, convex, none): None

Slope (%): 0 Lat: 41.72045 Long: -88.37819 Datum: NAD 83

Soil Map Unit Name: Sawmill silty clay loam, 0-2% slopes, freq. flooded NWI classification: PEMAf

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

Are Vegetation No, Soil No, or Hydrology No significantly disturbed? Are "Normal Circumstances" present? Yes

Are Vegetation No, Soil No, or Hydrology No 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?	No	**Is the Sampled Area within a Wetland?** **No**
Hydric Soil Present?	No	
Wetland Hydrology Present?	No	

Remarks: Community type is non-native grassland.

VEGETATION - Use scientific names of plants.

Tree Stratum (Plot size: 30 ft radius)	Absolute % Cover	Dominant Species?	Indicator Status
1.			
2.			
3.			
4.			
5.			
	0	= Total Cover	

Sapling/Shrub Stratum (Plot size: 15 ft radius)			
1. *Juniperus virginiana var. crebra*	1	No	FACU
2.			
3.			
4.			
5.			
	1	= Total Cover	

Herb Stratum (Plot size: 5 ft radius)			
1. *Solidago canadensis*	40	Yes	FACU
2. *Phalaris arundinacea*	35	Yes	FACW
3. *Oenothera biennis*	5	No	FACU
4. *Vitis riparia*	2	No	FACW
5. *Daucus carota*	1	No	UPL
6. *Erigeron annuus*	1	No	FACU
7.			
8.			
9.			
10.			
	84	= Total Cover	

Woody Vine Stratum (Plot size: 30 ft radius)			
1.			
2.			
	0	= Total Cover	

Dominance Test worksheet:

Number of Dominant Species That are OBL, FACW, or 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		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

- ☐ 1-Rapid Test for Hydrophytic Vegetation
- ☐ 2-Dominance Test is >50%
- ☐ 3-Prevalence Index is < or =3.0[1]
- ☐ 4-Morphological Adaptations[1] (Provide supporting data in Remarks or on a 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? **No**

Remarks: (Include photo numbers here or on a separate sheet.)

SOIL

Sampling Point: 6G

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
0-13	10YR 3/1	100					SICL	

[1] Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. [2] Location: PL=Pore Lining, M=Matrix

Hydric Soil Indicators:

- ☐ Histosol (A1)
- ☐ Histic Epipedon (A2)
- ☐ Black Histic (A3)
- ☐ Hydrogen Sulfide (A4)
- ☐ Stratified Layers (A5)
- ☐ 2 cm Muck (A10)
- ☐ Depleted Below Dark Surface (A11)
- ☐ Thick Dark Surface (A12)
- ☐ Sandy Mucky Mineral (S1)
- ☐ 5 cm Mucky Peat or Peat (S3)
- ☐ 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)

Indicators for Problematic Hydric Soils[3]:

- ☐ Coast Prairie Redox (A16)
- ☐ Dark Surface (S7)
- ☐ Iron-Manganese Masses (F12)
- ☐ Very Shallow Dark Surface (TF12)
- ☐ Other (Explain in Remarks)

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

Restrictive Layer (if observed):

Type: _____

Depth (inches): _____

Hydric Soil Present? **No**

Remarks:

HYDROLOGY

Wetland Hydrology Indicators:

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

- ☐ Surface Water (A1)
- ☐ High Water Table (A2)
- ☐ Saturation (A3)
- ☐ Water Marks (B1)
- ☐ Sediment Deposits (B2)
- ☐ Drift Deposits (B3)
- ☐ Algal Mat or Crust (B4)
- ☐ Iron Deposits (B5)
- ☐ Inundation Visible on Aerial Imagery (B7)
- ☐ Sparsely Vegetated Concave Surface (B8)
- ☐ Water-Stained Leaves (B9)
- ☐ Aquatic Fauna (B13)
- ☐ True Aquatic Plants (B14)
- ☐ Hydrogen Sulfide Odor (C1)
- ☐ Oxidized Rhizospheres on Living Roots (C3)
- ☐ Presence of Reduced Iron (C4)
- ☐ Recent Iron Reduction in Tilled Soils (C6)
- ☐ Thin Muck Surface (C7)
- ☐ Gauge or Well Data (D9)
- ☐ Other (Explain in Remarks)

Secondary Indicators (minimum of two is required)

- ☐ Surface Soil Cracks (B6)
- ☐ Drainage Patterns (B10)
- ☐ Dry-Season Water Table (C2)
- ☐ Crayfish Burrows (C8)
- ☐ Saturation Visible on Aerial Imagery (C9)
- ☐ Stunted or Stressed Plants (D1)
- ☐ Geomorphic Position (D2)
- ☐ FAC-Neutral Test (D5)

Field Observations:

Surface Water Present? No Depth (inches): _____

Water Table Present? No Depth (inches): _____

Saturation Present? (includes capillary fringe) No Depth (inches): _____

Wetland Hydrology Present? **No**

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

Remarks:

WETLAND DETERMINATION DATA FORM - Midwest Region

Project/Site: US 30 - Baseline Road (FAP 349) City/County: Kendall Sampling Date 10/7/2014

Applicant/Owner: IDOT District 1 State: IL Sampling Point 6H

Investigator(s): Kenney, Marcum Section, Township, Range: Sec. 1, T37N, R7E

Landform (hillslope, terrace, etc.): Floodplain Local relief (concave, convex, none): None

Slope (%): 0 Lat: 41.72188 Long: -88.37709 Datum: NAD 83

Soil Map Unit Name: Millington silt loam, 0-2% slopes, freq. flooded NWI classification: PEMAf

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

Are Vegetation No, Soil No, or Hydrology No significantly disturbed? Are "Normal Circumstances" present? Yes

Are Vegetation No, Soil No, or Hydrology No 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?	No	**Is the Sampled Area within a Wetland?** **No**
Hydric Soil Present?	No	
Wetland Hydrology Present?	No	

Remarks: Community type is non-native grassland.

VEGETATION - Use scientific names of plants.

Tree Stratum (Plot size: 30 ft radius)	Absolute % Cover	Dominant Species?	Indicator Status
1.			
2.			
3.			
4.			
5.			
	0	= Total Cover	
Sapling/Shrub Stratum (Plot size: 15 ft radius)			
1. *Lonicera maackii*	2	No	UPL
2.			
3.			
4.			
5.			
	2	= Total Cover	
Herb Stratum (Plot size: 5 ft radius)			
1. *Phalaris arundinacea*	50	Yes	FACW
2. *Solidago canadensis*	30	Yes	FACU
3. *Vitis riparia*	2	No	FACW
4. *Cirsium arvense*	1	No	FACU
5. *Equisetum arvense*	1	No	FAC
6.			
7.			
8.			
9.			
10.			
	84	= Total Cover	
Woody Vine Stratum (Plot size: 30 ft radius)			
1.			
2.			
	0	= Total Cover	

Dominance Test worksheet:

Number of Dominant Species That are OBL, FACW, or 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		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

- ☐ 1-Rapid Test for Hydrophytic Vegetation
- ☐ 2-Dominance Test is >50%
- ☐ 3-Prevalence Index is < or =3.0[1]
- ☐ 4-Morphological Adaptations[1] (Provide supporting data in Remarks or on a 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? **No**

Remarks: (Include photo numbers here or on a separate sheet.)

SOIL

Sampling Point: 6H

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
0-13	10YR 3/2	100					SIL	

[1] Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. [2] Location: PL=Pore Lining, M=Matrix

Hydric Soil Indicators:

- ☐ Histosol (A1)
- ☐ Histic Epipedon (A2)
- ☐ Black Histic (A3)
- ☐ Hydrogen Sulfide (A4)
- ☐ Stratified Layers (A5)
- ☐ 2 cm Muck (A10)
- ☐ Depleted Below Dark Surface (A11)
- ☐ Thick Dark Surface (A12)
- ☐ Sandy Mucky Mineral (S1)
- ☐ 5 cm Mucky Peat or Peat (S3)
- ☐ 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)

Indicators for Problematic Hydric Soils[3]:

- ☐ Coast Prairie Redox (A16)
- ☐ Dark Surface (S7)
- ☐ Iron-Manganese Masses (F12)
- ☐ Very Shallow Dark Surface (TF12)
- ☐ Other (Explain in Remarks)

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

Restrictive Layer (if observed):

Type: _____

Depth (inches): _____

Hydric Soil Present? **No**

Remarks:

HYDROLOGY

Wetland Hydrology Indicators:

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

- ☐ Surface Water (A1)
- ☐ High Water Table (A2)
- ☐ Saturation (A3)
- ☐ Water Marks (B1)
- ☐ Sediment Deposits (B2)
- ☐ Drift Deposits (B3)
- ☐ Algal Mat or Crust (B4)
- ☐ Iron Deposits (B5)
- ☐ Inundation Visible on Aerial Imagery (B7)
- ☐ Sparsely Vegetated Concave Surface (B8)
- ☐ Water-Stained Leaves (B9)
- ☐ Aquatic Fauna (B13)
- ☐ True Aquatic Plants (B14)
- ☐ Hydrogen Sulfide Odor (C1)
- ☐ Oxidized Rhizospheres on Living Roots (C3)
- ☐ Presence of Reduced Iron (C4)
- ☐ Recent Iron Reduction in Tilled Soils (C6)
- ☐ Thin Muck Surface (C7)
- ☐ Gauge or Well Data (D9)
- ☐ Other (Explain in Remarks)

Secondary Indicators (minimum of two is required)

- ☐ Surface Soil Cracks (B6)
- ☐ Drainage Patterns (B10)
- ☐ Dry-Season Water Table (C2)
- ☐ Crayfish Burrows (C8)
- ☐ Saturation Visible on Aerial Imagery (C9)
- ☐ Stunted or Stressed Plants (D1)
- ☐ Geomorphic Position (D2)
- ☐ FAC-Neutral Test (D5)

Field Observations:

Surface Water Present? No Depth (inches): _____

Water Table Present? No Depth (inches): _____

Saturation Present? (includes capillary fringe) No Depth (inches): _____

Wetland Hydrology Present? **No**

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

Remarks:

WETLAND DETERMINATION DATA FORM - Midwest Region

Project/Site: US 30 - Baseline Road (FAP 349) City/County: Kane Sampling Date 10/6/2014

Applicant/Owner: IDOT District 1 State: IL Sampling Point 14A

Investigator(s): Kenney, Marcum Section, Township, Range: Sec. 36, T38N, R7E

Landform (hillslope, terrace, etc.): Excavated depression Local relief (concave, convex, none): Concave

Slope (%): 0-2 Lat: 41.72542 Long: -88.37770 Datum: NAD 83

Soil Map Unit Name: Millington silt loam, 0-2% slopes, freq. flooded NWI classification: U

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

Are Vegetation No , Soil No , or Hydrology No significantly disturbed? Are "Normal Circumstances" present? Yes

Are Vegetation No , Soil No , or Hydrology No 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	**Is the Sampled Area within a Wetland?** **Yes**
Hydric Soil Present?	Yes	
Wetland Hydrology Present?	Yes	

Remarks: Community type is wet meadow.

VEGETATION - Use scientific names of plants.

Tree Stratum (Plot size: 30 ft radius)	Absolute % Cover	Dominant Species?	Indicator Status
1.			
2.			
3.			
4.			
5.			
	0	= Total Cover	

Sapling/Shrub Stratum (Plot size: 15 ft radius)			
1.			
2.			
3.			
4.			
5.			
	0	= Total Cover	

Herb Stratum (Plot size: 5 ft radius)			
1. *Panicum dichotomiflorum*	30	Yes	FACW
2. *Echinochloa crusgalli*	15	Yes	FACW
3. *Phragmites australis*	15	Yes	FACW
4. *Phalaris arundinacea*	4	No	FACW
5. *Bidens frondosa*	3	No	FACW
6. *Polygonum persicaria*	3	No	FACW
7. *Populus deltoides*	3	No	FAC
8. *Prunella vulgaris var. lanceolata*	3	No	FAC
9. *Salix interior*	3	No	FACW
10. *Ambrosia artemisiifolia var. elatior*	2	No	FACU
	81	= Total Cover	

Woody Vine Stratum (Plot size: 30 ft radius)		
1.		
2.		
	0	= Total Cover

Dominance Test worksheet:

Number of Dominant Species That are OBL, FACW, or FAC: _____ (A)

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

Percent of Dominant Species That are OBL, FACW, or FAC: _____ (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] 1-Rapid Test for Hydrophytic Vegetation
- [ ] 2-Dominance Test is >50%
- [ ] 3-Prevalence Index is < or =3.0[1]
- [ ] 4-Morphological Adaptations[1] (Provide supporting data in Remarks or on a 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**

Remarks: (Include photo numbers here or on a separate sheet.)

SOIL

Sampling Point: 14A

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 Features %	Type[1]	Loc[2]	Texture	Remarks
0-5	10YR 3/2	90	7.5YR 4/6	10	C	M	L	Layer of gravel below

[1] Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. [2] Location: PL=Pore Lining, M=Matrix

Hydric Soil Indicators:

- ☐ Histosol (A1)
- ☐ Histic Epipedon (A2)
- ☐ Black Histic (A3)
- ☐ Hydrogen Sulfide (A4)
- ☐ Stratified Layers (A5)
- ☐ 2 cm Muck (A10)
- ☐ Depleted Below Dark Surface (A11)
- ☐ Thick Dark Surface (A12)
- ☐ Sandy Mucky Mineral (S1)
- ☐ 5 cm Mucky Peat or Peat (S3)
- ☐ 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)

Indicators for Problematic Hydric Soils[3]:

- ☐ Coast Prairie Redox (A16)
- ☐ Dark Surface (S7)
- ☐ Iron-Manganese Masses (F12)
- ☐ Very Shallow Dark Surface (TF12)
- ☐ Other (Explain in Remarks)

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

Restrictive Layer (if observed):

Type: _____

Depth (inches): _____

Hydric Soil Present? **Yes**

Remarks:

HYDROLOGY

Wetland Hydrology Indicators:

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

- ☐ Surface Water (A1)
- ☐ High Water Table (A2)
- ☐ Saturation (A3)
- ☐ Water Marks (B1)
- ☐ Sediment Deposits (B2)
- ☐ Drift Deposits (B3)
- ☐ Algal Mat or Crust (B4)
- ☐ Iron Deposits (B5)
- ☐ Inundation Visible on Aerial Imagery (B7)
- ☐ Sparsely Vegetated Concave Surface (B8)
- ☐ Water-Stained Leaves (B9)
- ☐ Aquatic Fauna (B13)
- ☐ True Aquatic Plants (B14)
- ☐ Hydrogen Sulfide Odor (C1)
- ☐ Oxidized Rhizospheres on Living Roots (C3)
- ☐ Presence of Reduced Iron (C4)
- ☐ Recent Iron Reduction in Tilled Soils (C6)
- ☐ Thin Muck Surface (C7)
- ☐ Gauge or Well Data (D9)
- ☐ Other (Explain in Remarks)

Secondary Indicators (minimum of two is required)

- ☐ Surface Soil Cracks (B6)
- ☐ Drainage Patterns (B10)
- ☐ Dry-Season Water Table (C2)
- ☐ Crayfish Burrows (C8)
- ☐ Saturation Visible on Aerial Imagery (C9)
- ☐ Stunted or Stressed Plants (D1)
- ☑ Geomorphic Position (D2)
- ☑ FAC-Neutral Test (D5)

Field Observations:

Surface Water Present? No Depth (inches): _____

Water Table Present? No Depth (inches): _____

Saturation Present? (includes capillary fringe) No Depth (inches): _____

Wetland Hydrology Present? **Yes**

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

Remarks:

WETLAND DETERMINATION DATA FORM - Midwest Region

Project/Site: US 30 - Baseline Road (FAP 349) City/County: Kane Sampling Date 10/6/2014

Applicant/Owner: IDOT District 1 State: IL Sampling Point 14B

Investigator(s): Kenney, Marcum Section, Township, Range: Sec. 36, T38N, R7E

Landform (hillslope, terrace, etc.): Floodplain Local relief (concave, convex, none): None

Slope (%): 0 Lat: 41.72534 Long: -88.37753 Datum: NAD 83

Soil Map Unit Name: Millington silt loam, 0-2% slopes, freq. flooded NWI classification: U

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

Are Vegetation No, Soil No, or Hydrology No significantly disturbed? Are "Normal Circumstances" present? Yes

Are Vegetation No, Soil No, or Hydrology No 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?	No	**Is the Sampled Area within a Wetland?** **No**
Hydric Soil Present?	Yes	
Wetland Hydrology Present?	No	

Remarks: Community type is non-native grassland.

VEGETATION - Use scientific names of plants.

Tree Stratum (Plot size: 30 ft radius)	Absolute % Cover	Dominant Species?	Indicator Status
1.			
2.			
3.			
4.			
5.			
	0	= Total Cover	

Sapling/Shrub Stratum (Plot size: 15 ft radius)			
1.			
2.			
3.			
4.			
5.			
	0	= Total Cover	

Herb Stratum (Plot size: 5 ft radius)			
1. *Glechoma hederacea*	60	Yes	FACU
2. *Agrostis alba*	20	Yes	FACW
3. *Festuca elatior*	20	Yes	FACU
4. *Poa pratensis*	20	Yes	FAC
5. *Mentha arvensis var. villosa*	5	No	FACW
6. *Phalaris arundinacea*	4	No	FACW
7. *Cirsium arvense*	1	No	FACU
8.			
9.			
10.			
	130	= Total Cover	

Woody Vine Stratum (Plot size: 30 ft radius)			
1.			
2.			
	0	= Total Cover	

Dominance Test worksheet:

Number of Dominant Species That are OBL, FACW, or 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		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

- ☐ 1-Rapid Test for Hydrophytic Vegetation
- ☐ 2-Dominance Test is >50%
- ☐ 3-Prevalence Index is < or =3.0[1]
- ☐ 4-Morphological Adaptations[1] (Provide supporting data in Remarks or on a 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? **No**

Remarks: (Include photo numbers here or on a separate sheet.)

SOIL

Sampling Point: 14B

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
0-6	10YR 3/1	100					SIL	
6-13	10YR 3/1	95	7.5YR 4/6	5	C	M	SIL	

[1] Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. [2] Location: PL=Pore Lining, M=Matrix

Hydric Soil Indicators:

- ☐ Histosol (A1)
- ☐ Histic Epipedon (A2)
- ☐ Black Histic (A3)
- ☐ Hydrogen Sulfide (A4)
- ☐ Stratified Layers (A5)
- ☐ 2 cm Muck (A10)
- ☐ Depleted Below Dark Surface (A11)
- ☐ Thick Dark Surface (A12)
- ☐ Sandy Mucky Mineral (S1)
- ☐ 5 cm Mucky Peat or Peat (S3)
- ☐ 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)

Indicators for Problematic Hydric Soils[3]:

- ☐ Coast Prairie Redox (A16)
- ☐ Dark Surface (S7)
- ☐ Iron-Manganese Masses (F12)
- ☐ Very Shallow Dark Surface (TF12)
- ☐ Other (Explain in Remarks)

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

Restrictive Layer (if observed):

Type: _____

Depth (inches): _____

Hydric Soil Present? **Yes**

Remarks:

HYDROLOGY

Wetland Hydrology Indicators:

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

- ☐ Surface Water (A1)
- ☐ High Water Table (A2)
- ☐ Saturation (A3)
- ☐ Water Marks (B1)
- ☐ Sediment Deposits (B2)
- ☐ Drift Deposits (B3)
- ☐ Algal Mat or Crust (B4)
- ☐ Iron Deposits (B5)
- ☐ Inundation Visible on Aerial Imagery (B7)
- ☐ Sparsely Vegetated Concave Surface (B8)
- ☐ Water-Stained Leaves (B9)
- ☐ Aquatic Fauna (B13)
- ☐ True Aquatic Plants (B14)
- ☐ Hydrogen Sulfide Odor (C1)
- ☐ Oxidized Rhizospheres on Living Roots (C3)
- ☐ Presence of Reduced Iron (C4)
- ☐ Recent Iron Reduction in Tilled Soils (C6)
- ☐ Thin Muck Surface (C7)
- ☐ Gauge or Well Data (D9)
- ☐ Other (Explain in Remarks)

Secondary Indicators (minimum of two is required)

- ☐ Surface Soil Cracks (B6)
- ☐ Drainage Patterns (B10)
- ☐ Dry-Season Water Table (C2)
- ☐ Crayfish Burrows (C8)
- ☐ Saturation Visible on Aerial Imagery (C9)
- ☐ Stunted or Stressed Plants (D1)
- ☐ Geomorphic Position (D2)
- ☐ FAC-Neutral Test (D5)

Field Observations:

Surface Water Present? No Depth (inches): _____

Water Table Present? No Depth (inches): _____

Saturation Present? (includes capillary fringe) No Depth (inches): _____

Wetland Hydrology Present? **No**

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

Remarks:

WETLAND DETERMINATION DATA FORM - Midwest Region

Project/Site: US 30 - Baseline Road (FAP 349) City/County: Kane Sampling Date 10/6/2014

Applicant/Owner: IDOT District 1 State: IL Sampling Point 15A

Investigator(s): Kenney, Marcum Section, Township, Range: Sec. 36, T38N, R7E

Landform (hillslope, terrace, etc.): Depression Local relief (concave, convex, none): Concave

Slope (%): 0-2 Lat: 41.72523 Long: -88.37841 Datum: NAD 83

Soil Map Unit Name: Millington silt loam, 0-2% slopes, freq. flooded NWI classification: PUBG

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

Are Vegetation No , Soil No , or Hydrology No significantly disturbed? Are "Normal Circumstances" present? Yes

Are Vegetation No , Soil No , or Hydrology No 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	**Is the Sampled Area within a Wetland?**	**Yes**
Hydric Soil Present?	Yes		
Wetland Hydrology Present?	Yes		

Remarks: Community type is wetland pond.

VEGETATION - Use scientific names of plants.

Tree Stratum (Plot size: 30 ft radius)	Absolute % Cover	Dominant Species?	Indicator Status
1.			
2.			
3.			
4.			
5.			
	0	= Total Cover	

Sapling/Shrub Stratum (Plot size: 15 ft radius)			
1.			
2.			
3.			
4.			
5.			
	0	= Total Cover	

Herb Stratum (Plot size: 5 ft radius)			
1. *Wolffia columbiana*	45	Yes	OBL
2. *Lemna minor*	40	Yes	OBL
3. *Phalaris arundinacea*	2	No	FACW
4.			
5.			
6.			
7.			
8.			
9.			
10.			
	87	= Total Cover	

Woody Vine Stratum (Plot size: 30 ft radius)			
1.			
2.			
	0	= Total Cover	

Dominance Test worksheet:

Number of Dominant Species That are OBL, FACW, or FAC: _____ (A)

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

Percent of Dominant Species That are OBL, FACW, or FAC: _____ (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] 1-Rapid Test for Hydrophytic Vegetation
- [ ] 2-Dominance Test is >50%
- [ ] 3-Prevalence Index is < or =3.0[1]
- [ ] 4-Morphological Adaptations[1] (Provide supporting data in Remarks or on a 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**

Remarks: (Include photo numbers here or on a separate sheet.)

SOIL

Sampling Point: 15A

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 Features %	Type[1]	Loc[2]	Texture	Remarks
0-4	10YR 3/1	95	10YR 4/6	5	C	M	L	10% Gravel

[1] Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. [2] Location: PL=Pore Lining, M=Matrix

Hydric Soil Indicators:

- ☐ Histosol (A1)
- ☐ Histic Epipedon (A2)
- ☐ Black Histic (A3)
- ☐ Hydrogen Sulfide (A4)
- ☐ Stratified Layers (A5)
- ☐ 2 cm Muck (A10)
- ☐ Depleted Below Dark Surface (A11)
- ☐ Thick Dark Surface (A12)
- ☐ Sandy Mucky Mineral (S1)
- ☐ 5 cm Mucky Peat or Peat (S3)
- ☐ 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)

Indicators for Problematic Hydric Soils[3]:

- ☐ Coast Prairie Redox (A16)
- ☐ Dark Surface (S7)
- ☐ Iron-Manganese Masses (F12)
- ☐ Very Shallow Dark Surface (TF12)
- ☐ Other (Explain in Remarks)

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

Restrictive Layer (if observed):

Type: _____

Depth (inches): _____

Hydric Soil Present? **Yes**

Remarks:

HYDROLOGY

Wetland Hydrology Indicators:

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

- ☑ Surface Water (A1)
- ☑ High Water Table (A2)
- ☑ Saturation (A3)
- ☐ Water Marks (B1)
- ☐ Sediment Deposits (B2)
- ☐ Drift Deposits (B3)
- ☐ Algal Mat or Crust (B4)
- ☐ Iron Deposits (B5)
- ☐ Inundation Visible on Aerial Imagery (B7)
- ☐ Sparsely Vegetated Concave Surface (B8)
- ☐ Water-Stained Leaves (B9)
- ☐ Aquatic Fauna (B13)
- ☑ True Aquatic Plants (B14)
- ☐ Hydrogen Sulfide Odor (C1)
- ☐ Oxidized Rhizospheres on Living Roots (C3)
- ☐ Presence of Reduced Iron (C4)
- ☐ Recent Iron Reduction in Tilled Soils (C6)
- ☐ Thin Muck Surface (C7)
- ☐ Gauge or Well Data (D9)
- ☐ Other (Explain in Remarks)

Secondary Indicators (minimum of two is required)

- ☐ Surface Soil Cracks (B6)
- ☐ Drainage Patterns (B10)
- ☐ Dry-Season Water Table (C2)
- ☐ Crayfish Burrows (C8)
- ☐ Saturation Visible on Aerial Imagery (C9)
- ☐ Stunted or Stressed Plants (D1)
- ☑ Geomorphic Position (D2)
- ☑ FAC-Neutral Test (D5)

Field Observations:

Surface Water Present? Yes Depth (inches): <36

Water Table Present? Yes Depth (inches): 0

Saturation Present? (includes capillary fringe) Yes Depth (inches): 0

Wetland Hydrology Present? **Yes**

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

Remarks:

WETLAND DETERMINATION DATA FORM - Midwest Region

Project/Site: US 30 - Baseline Road (FAP 349) City/County: Kane Sampling Date 10/6/2014

Applicant/Owner: IDOT District 1 State: IL Sampling Point 16A/15B

Investigator(s): Kenney, Marcum Section, Township, Range: Sec. 36, T38N, R7E

Landform (hillslope, terrace, etc.): Floodplain Local relief (concave, convex, none): Convex

Slope (%): 2 Lat: 41.72496 Long: -88.37849 Datum: NAD 83

Soil Map Unit Name: Millington silt loam, 0-2% slopes, freq. flooded NWI classification: PFO1C

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

Are Vegetation No , Soil No , or Hydrology No significantly disturbed? Are "Normal Circumstances" present? Yes

Are Vegetation No , Soil No , or Hydrology No 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	**Is the Sampled Area within a Wetland?** **No**
Hydric Soil Present?	Yes	
Wetland Hydrology Present?	No	

Remarks: Community type is upland forest.

VEGETATION - Use scientific names of plants.

Tree Stratum (Plot size: 30 ft radius)	Absolute % Cover	Dominant Species?	Indicator Status
1. *Acer saccharinum*	25	Yes	FACW
2. *Populus deltoides*	25	Yes	FAC
3. *Morus alba*	10	No	FAC
4.			
5.			
	60	= Total Cover	

Sapling/Shrub Stratum (Plot size: 15 ft radius)			
1. *Rhamnus cathartica*	15	Yes	FAC
2.			
3.			
4.			
5.			
	15	= Total Cover	

Herb Stratum (Plot size: 5 ft radius)			
1. *Glechoma hederacea*	70	Yes	FACU
2. *Rhamnus cathartica*	1	No	FAC
3.			
4.			
5.			
6.			
7.			
8.			
9.			
10.			
	71	= Total Cover	

Woody Vine Stratum (Plot size: 30 ft radius)			
1.			
2.			
	0	= Total Cover	

Dominance Test worksheet:

Number of Dominant Species That are OBL, FACW, or FAC: 3 (A)

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

Percent of Dominant Species That are OBL, FACW, or FAC: 75% (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

- ☐ 1-Rapid Test for Hydrophytic Vegetation
- ☑ 2-Dominance Test is >50%
- ☐ 3-Prevalence Index is < or =3.0[1]
- ☐ 4-Morphological Adaptations[1] (Provide supporting data in Remarks or on a 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**

Remarks: (Include photo numbers here or on a separate sheet.)

SOIL

Sampling Point: 16A/15B

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
0-6	10YR 3/1	100					SIL	
6-13	10YR 3/1	80	5YR 4/6	20	C	M	SIL	

[1] Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. [2] Location: PL=Pore Lining, M=Matrix

Hydric Soil Indicators:

- ☐ Histosol (A1)
- ☐ Histic Epipedon (A2)
- ☐ Black Histic (A3)
- ☐ Hydrogen Sulfide (A4)
- ☐ Stratified Layers (A5)
- ☐ 2 cm Muck (A10)
- ☐ Depleted Below Dark Surface (A11)
- ☐ Thick Dark Surface (A12)
- ☐ Sandy Mucky Mineral (S1)
- ☐ 5 cm Mucky Peat or Peat (S3)
- ☐ 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)

Indicators for Problematic Hydric Soils[3]:

- ☐ Coast Prairie Redox (A16)
- ☐ Dark Surface (S7)
- ☐ Iron-Manganese Masses (F12)
- ☐ Very Shallow Dark Surface (TF12)
- ☐ Other (Explain in Remarks)

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

Restrictive Layer (if observed):

Type: _____

Depth (inches): _____

Hydric Soil Present? **Yes**

Remarks:

HYDROLOGY

Wetland Hydrology Indicators:

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

- ☐ Surface Water (A1)
- ☐ High Water Table (A2)
- ☐ Saturation (A3)
- ☐ Water Marks (B1)
- ☐ Sediment Deposits (B2)
- ☐ Drift Deposits (B3)
- ☐ Algal Mat or Crust (B4)
- ☐ Iron Deposits (B5)
- ☐ Inundation Visible on Aerial Imagery (B7)
- ☐ Sparsely Vegetated Concave Surface (B8)
- ☐ Water-Stained Leaves (B9)
- ☐ Aquatic Fauna (B13)
- ☐ True Aquatic Plants (B14)
- ☐ Hydrogen Sulfide Odor (C1)
- ☐ Oxidized Rhizospheres on Living Roots (C3)
- ☐ Presence of Reduced Iron (C4)
- ☐ Recent Iron Reduction in Tilled Soils (C6)
- ☐ Thin Muck Surface (C7)
- ☐ Gauge or Well Data (D9)
- ☐ Other (Explain in Remarks)

Secondary Indicators (minimum of two is required)

- ☐ Surface Soil Cracks (B6)
- ☐ Drainage Patterns (B10)
- ☐ Dry-Season Water Table (C2)
- ☐ Crayfish Burrows (C8)
- ☐ Saturation Visible on Aerial Imagery (C9)
- ☐ Stunted or Stressed Plants (D1)
- ☐ Geomorphic Position (D2)
- ☐ FAC-Neutral Test (D5)

Field Observations:

Surface Water Present? No Depth (inches): _____

Water Table Present? No Depth (inches): _____

Saturation Present? (includes capillary fringe) No Depth (inches): _____

Wetland Hydrology Present? **No**

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

Remarks:

WETLAND DETERMINATION DATA FORM - Midwest Region

Project/Site: US 30 - Baseline Road (FAP 349) City/County: Kane Sampling Date 10/6/2014

Applicant/Owner: IDOT District 1 State: IL Sampling Point 17A

Investigator(s): Kenney, Marcum Section, Township, Range: Sec. 36, T38N, R7E

Landform (hillslope, terrace, etc.): Floodplain Local relief (concave, convex, none): None

Slope (%): 0 Lat: 41.72517 Long: -88.37784 Datum: NAD 83

Soil Map Unit Name: Millington silt loam, 0-2% slopes, freq. flooded NWI classification: PEMC

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

Are Vegetation No, Soil No, or Hydrology No significantly disturbed? Are "Normal Circumstances" present? Yes

Are Vegetation No, Soil No, or Hydrology No 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	**Is the Sampled Area within a Wetland?**	**No**
Hydric Soil Present?	Yes		
Wetland Hydrology Present?	No		

Remarks: Community type is non-native grassland.

VEGETATION - Use scientific names of plants.

Tree Stratum (Plot size: 30 ft radius)	Absolute % Cover	Dominant Species?	Indicator Status
1. *Salix nigra*	3	No	OBL
2.			
3.			
4.			
5.			
	3	= Total Cover	

Sapling/Shrub Stratum (Plot size: 15 ft radius)			
1.			
2.			
3.			
4.			
5.			
	0	= Total Cover	

Herb Stratum (Plot size: 5 ft radius)			
1. *Agrostis alba*	40	Yes	FACW
2. *Glechoma hederacea*	20	Yes	FACU
3. *Poa pratensis*	20	Yes	FAC
4. *Festuca elatior*	5	No	FACU
5. *Lippia lanceolata*	5	No	OBL
6. *Phalaris arundinacea*	5	No	FACW
7. *Polygonum hydropiper*	4	No	OBL
8.			
9.			
10.			
	99	= Total Cover	

Woody Vine Stratum (Plot size: 30 ft radius)			
1.			
2.			
	0	= Total Cover	

Dominance Test worksheet:

Number of Dominant Species That are OBL, FACW, or 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

- ☐ 1-Rapid Test for Hydrophytic Vegetation
- ☑ 2-Dominance Test is >50%
- ☐ 3-Prevalence Index is < or =3.0[1]
- ☐ 4-Morphological Adaptations[1] (Provide supporting data in Remarks or on a 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**

Remarks: (Include photo numbers here or on a separate sheet.)

SOIL

Sampling Point: 17A

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 Features %	Type[1]	Loc[2]	Texture	Remarks
0-7	10YR 3/1	90	7.5YR 4/6	10	C	M	SIL	
7-13	10YR 3/1	80	7.5YR 4/6	20	C	M	SIL	

[1] Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. [2] Location: PL=Pore Lining, M=Matrix

Hydric Soil Indicators:

- ☐ Histosol (A1)
- ☐ Histic Epipedon (A2)
- ☐ Black Histic (A3)
- ☐ Hydrogen Sulfide (A4)
- ☐ Stratified Layers (A5)
- ☐ 2 cm Muck (A10)
- ☐ Depleted Below Dark Surface (A11)
- ☐ Thick Dark Surface (A12)
- ☐ Sandy Mucky Mineral (S1)
- ☐ 5 cm Mucky Peat or Peat (S3)
- ☐ 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)

Indicators for Problematic Hydric Soils[3]:

- ☐ Coast Prairie Redox (A16)
- ☐ Dark Surface (S7)
- ☐ Iron-Manganese Masses (F12)
- ☐ Very Shallow Dark Surface (TF12)
- ☐ Other (Explain in Remarks)

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

Restrictive Layer (if observed):

Type: _____

Depth (inches): _____

Hydric Soil Present? **Yes**

Remarks:

HYDROLOGY

Wetland Hydrology Indicators:

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

- ☐ Surface Water (A1)
- ☐ High Water Table (A2)
- ☐ Saturation (A3)
- ☐ Water Marks (B1)
- ☐ Sediment Deposits (B2)
- ☐ Drift Deposits (B3)
- ☐ Algal Mat or Crust (B4)
- ☐ Iron Deposits (B5)
- ☐ Inundation Visible on Aerial Imagery (B7)
- ☐ Sparsely Vegetated Concave Surface (B8)
- ☐ Water-Stained Leaves (B9)
- ☐ Aquatic Fauna (B13)
- ☐ True Aquatic Plants (B14)
- ☐ Hydrogen Sulfide Odor (C1)
- ☐ Oxidized Rhizospheres on Living Roots (C3)
- ☐ Presence of Reduced Iron (C4)
- ☐ Recent Iron Reduction in Tilled Soils (C6)
- ☐ Thin Muck Surface (C7)
- ☐ Gauge or Well Data (D9)
- ☐ Other (Explain in Remarks)

Secondary Indicators (minimum of two is required)

- ☐ Surface Soil Cracks (B6)
- ☐ Drainage Patterns (B10)
- ☐ Dry-Season Water Table (C2)
- ☐ Crayfish Burrows (C8)
- ☐ Saturation Visible on Aerial Imagery (C9)
- ☐ Stunted or Stressed Plants (D1)
- ☐ Geomorphic Position (D2)
- ☑ FAC-Neutral Test (D5)

Field Observations:

Surface Water Present? No Depth (inches): _____

Water Table Present? No Depth (inches): _____

Saturation Present? (includes capillary fringe) No Depth (inches): _____

Wetland Hydrology Present? **No**

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

Remarks:

WETLAND DETERMINATION DATA FORM - Midwest Region

Project/Site: US 30 - Baseline Road (FAP 349) City/County: Kane Sampling Date 10/6/2014

Applicant/Owner: IDOT District 1 State: IL Sampling Point 18A

Investigator(s): Kenney, Marcum Section, Township, Range: Sec. 36, T38N, R7E

Landform (hillslope, terrace, etc.): Excavated depression Local relief (concave, convex, none): Concave

Slope (%): 0-2 Lat: 41.72588 Long: -88.37598 Datum: NAD 83

Soil Map Unit Name: Warsaw loam, 2-4% slopes NWI classification: U

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

Are Vegetation No, Soil No, or Hydrology No significantly disturbed? Are "Normal Circumstances" present? Yes

Are Vegetation No, Soil No, or Hydrology No 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	**Is the Sampled Area within a Wetland?** **Yes**
Hydric Soil Present?	Yes	
Wetland Hydrology Present?	Yes	

Remarks: Community type is wet meadow.

VEGETATION - Use scientific names of plants.

Tree Stratum (Plot size: 30 ft radius)	Absolute % Cover	Dominant Species?	Indicator Status
1.			
2.			
3.			
4.			
5.			
	0	= Total Cover	

Sapling/Shrub Stratum (Plot size: 15 ft radius)			
1.			
2.			
3.			
4.			
5.			
	0	= Total Cover	

Herb Stratum (Plot size: 5 ft radius)			
1. *Agrostis alba*	45	Yes	FACW
2. *Scirpus validus var. creber*	25	Yes	OBL
3. *Echinochloa crusgalli*	20	Yes	FACW
4. *Polygonum pensylvanicum*	3	No	FACW
5. *Diplachne acuminata*	2	No	OBL
6.			
7.			
8.			
9.			
10.			
	95	= Total Cover	

Woody Vine Stratum (Plot size: 30 ft radius)			
1.			
2.			
	0	= Total Cover	

Dominance Test worksheet:

Number of Dominant Species That are OBL, FACW, or FAC: _____ (A)

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

Percent of Dominant Species That are OBL, FACW, or FAC: _____ (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] 1-Rapid Test for Hydrophytic Vegetation
- [ ] 2-Dominance Test is >50%
- [ ] 3-Prevalence Index is < or =3.0[1]
- [ ] 4-Morphological Adaptations[1] (Provide supporting data in Remarks or on a 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**

Remarks: (Include photo numbers here or on a separate sheet.)

SOIL

Sampling Point: 18A

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 Features %	Type[1]	Loc[2]	Texture	Remarks
0-6	10YR 3/1	92	10YR 4/6	8	C	M	SIL	
6-13	10YR 3/2	95	10YR 4/6	5	C	M	SICL	

[1] Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. [2] Location: PL=Pore Lining, M=Matrix

Hydric Soil Indicators:

- ☐ Histosol (A1)
- ☐ Histic Epipedon (A2)
- ☐ Black Histic (A3)
- ☐ Hydrogen Sulfide (A4)
- ☐ Stratified Layers (A5)
- ☐ 2 cm Muck (A10)
- ☐ Depleted Below Dark Surface (A11)
- ☐ Thick Dark Surface (A12)
- ☐ Sandy Mucky Mineral (S1)
- ☐ 5 cm Mucky Peat or Peat (S3)
- ☐ 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)

Indicators for Problematic Hydric Soils[3]:

- ☐ Coast Prairie Redox (A16)
- ☐ Dark Surface (S7)
- ☐ Iron-Manganese Masses (F12)
- ☐ Very Shallow Dark Surface (TF12)
- ☐ Other (Explain in Remarks)

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

Restrictive Layer (if observed):

Type: _____

Depth (inches): _____

Hydric Soil Present? **Yes**

Remarks:

HYDROLOGY

Wetland Hydrology Indicators:

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

- ☐ Surface Water (A1)
- ☐ High Water Table (A2)
- ☐ Saturation (A3)
- ☐ Water Marks (B1)
- ☐ Sediment Deposits (B2)
- ☐ Drift Deposits (B3)
- ☐ Algal Mat or Crust (B4)
- ☐ Iron Deposits (B5)
- ☐ Inundation Visible on Aerial Imagery (B7)
- ☐ Sparsely Vegetated Concave Surface (B8)
- ☐ Water-Stained Leaves (B9)
- ☐ Aquatic Fauna (B13)
- ☐ True Aquatic Plants (B14)
- ☐ Hydrogen Sulfide Odor (C1)
- ☐ Oxidized Rhizospheres on Living Roots (C3)
- ☐ Presence of Reduced Iron (C4)
- ☐ Recent Iron Reduction in Tilled Soils (C6)
- ☐ Thin Muck Surface (C7)
- ☐ Gauge or Well Data (D9)
- ☐ Other (Explain in Remarks)

Secondary Indicators (minimum of two is required)

- ☐ Surface Soil Cracks (B6)
- ☐ Drainage Patterns (B10)
- ☐ Dry-Season Water Table (C2)
- ☐ Crayfish Burrows (C8)
- ☐ Saturation Visible on Aerial Imagery (C9)
- ☐ Stunted or Stressed Plants (D1)
- ☑ Geomorphic Position (D2)
- ☑ FAC-Neutral Test (D5)

Field Observations:

Surface Water Present? No Depth (inches): _____

Water Table Present? No Depth (inches): _____

Saturation Present? (includes capillary fringe) No Depth (inches): _____

Wetland Hydrology Present? **Yes**

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

Remarks:

WETLAND DETERMINATION DATA FORM - Midwest Region

Project/Site: US 30 - Baseline Road (FAP 349) City/County: Kane Sampling Date 10/6/2014

Applicant/Owner: IDOT District 1 State: IL Sampling Point 18B

Investigator(s): Kenney, Marcum Section, Township, Range: Sec. 36, T38N, R7E

Landform (hillslope, terrace, etc.): Upland Local relief (concave, convex, none): Convex

Slope (%): 0-2 Lat: 41.72582 Long: -88.37590 Datum: NAD 83

Soil Map Unit Name: Warsaw loam, 0-2% slopes NWI classification: U

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

Are Vegetation No, Soil No, or Hydrology No significantly disturbed? Are "Normal Circumstances" present? Yes

Are Vegetation No, Soil No, or Hydrology No 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?	No	**Is the Sampled Area within a Wetland?** **No**
Hydric Soil Present?	Yes	
Wetland Hydrology Present?	No	

Remarks: Community type is forbland.

VEGETATION - Use scientific names of plants.

Tree Stratum (Plot size: 30 ft radius)	Absolute % Cover	Dominant Species?	Indicator Status
1.			
2.			
3.			
4.			
5.			
	0	= Total Cover	

Sapling/Shrub Stratum (Plot size: 15 ft radius)			
1.			
2.			
3.			
4.			
5.			
	0	= Total Cover	

Herb Stratum (Plot size: 5 ft radius)			
1. *Cirsium arvense*	60	Yes	FACU
2. *Abutilon theophrasti*	1	No	FACU
3. *Trifolium repens*	1	No	FACU
4.			
5.			
6.			
7.			
8.			
9.			
10.			
	62	= Total Cover	

Woody Vine Stratum (Plot size: 30 ft radius)			
1.			
2.			
	0	= Total Cover	

Dominance Test worksheet:

Number of Dominant Species That are OBL, FACW, or 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		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

- ☐ 1-Rapid Test for Hydrophytic Vegetation
- ☐ 2-Dominance Test is >50%
- ☐ 3-Prevalence Index is < or =3.0[1]
- ☐ 4-Morphological Adaptations[1] (Provide supporting data in Remarks or on a 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? **No**

Remarks: (Include photo numbers here or on a separate sheet.)

SOIL

Sampling Point: 18B

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 Features %	Type[1]	Loc[2]	Texture	Remarks
0-4	10YR 3/1	95	10YR 4/6	5	C	M	SIL	
4-13	10YR 3/2	92	10YR 4/6	8	C	M	SICL	

[1] Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. [2] Location: PL=Pore Lining, M=Matrix

Hydric Soil Indicators:

- ☐ Histosol (A1)
- ☐ Histic Epipedon (A2)
- ☐ Black Histic (A3)
- ☐ Hydrogen Sulfide (A4)
- ☐ Stratified Layers (A5)
- ☐ 2 cm Muck (A10)
- ☐ Depleted Below Dark Surface (A11)
- ☐ Thick Dark Surface (A12)
- ☐ Sandy Mucky Mineral (S1)
- ☐ 5 cm Mucky Peat or Peat (S3)
- ☐ 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)

Indicators for Problematic Hydric Soils[3]:

- ☐ Coast Prairie Redox (A16)
- ☐ Dark Surface (S7)
- ☐ Iron-Manganese Masses (F12)
- ☐ Very Shallow Dark Surface (TF12)
- ☐ Other (Explain in Remarks)

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

Restrictive Layer (if observed):

Type: _____

Depth (inches): _____

Hydric Soil Present? **Yes**

Remarks:

HYDROLOGY

Wetland Hydrology Indicators:

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

- ☐ Surface Water (A1)
- ☐ High Water Table (A2)
- ☐ Saturation (A3)
- ☐ Water Marks (B1)
- ☐ Sediment Deposits (B2)
- ☐ Drift Deposits (B3)
- ☐ Algal Mat or Crust (B4)
- ☐ Iron Deposits (B5)
- ☐ Inundation Visible on Aerial Imagery (B7)
- ☐ Sparsely Vegetated Concave Surface (B8)
- ☐ Water-Stained Leaves (B9)
- ☐ Aquatic Fauna (B13)
- ☐ True Aquatic Plants (B14)
- ☐ Hydrogen Sulfide Odor (C1)
- ☐ Oxidized Rhizospheres on Living Roots (C3)
- ☐ Presence of Reduced Iron (C4)
- ☐ Recent Iron Reduction in Tilled Soils (C6)
- ☐ Thin Muck Surface (C7)
- ☐ Gauge or Well Data (D9)
- ☐ Other (Explain in Remarks)

Secondary Indicators (minimum of two is required)

- ☐ Surface Soil Cracks (B6)
- ☐ Drainage Patterns (B10)
- ☐ Dry-Season Water Table (C2)
- ☐ Crayfish Burrows (C8)
- ☐ Saturation Visible on Aerial Imagery (C9)
- ☐ Stunted or Stressed Plants (D1)
- ☐ Geomorphic Position (D2)
- ☐ FAC-Neutral Test (D5)

Field Observations:

Surface Water Present? No Depth (inches): _____

Water Table Present? No Depth (inches): _____

Saturation Present? (includes capillary fringe) No Depth (inches): _____

Wetland Hydrology Present? **No**

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

Remarks:

WETLAND DETERMINATION DATA FORM - Midwest Region

Project/Site: US 30 - Baseline Road (FAP 349) City/County: Kane Sampling Date 10/6/2014

Applicant/Owner: IDOT District 1 State: IL Sampling Point 19A

Investigator(s): Kenney, Marcum Section, Township, Range: Sec. 31, T38N, R8E

Landform (hillslope, terrace, etc.): Excavated depression Local relief (concave, convex, none): Concave

Slope (%): 0-2 Lat: 41.72968 Long: -88.37493 Datum: NAD 83

Soil Map Unit Name: Warsaw loam, 0-2% slopes NWI classification: U

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

Are Vegetation No, Soil No, or Hydrology No significantly disturbed? Are "Normal Circumstances" present? Yes

Are Vegetation No, Soil No, or Hydrology No 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	**Is the Sampled Area within a Wetland?** **Yes**
Hydric Soil Present?	Yes	
Wetland Hydrology Present?	Yes	

Remarks: Community type is wet meadow.

VEGETATION - Use scientific names of plants.

Tree Stratum (Plot size: 30 ft radius)	Absolute % Cover	Dominant Species?	Indicator Status
1.			
2.			
3.			
4.			
5.			
	0	= Total Cover	

Sapling/Shrub Stratum (Plot size: 15 ft radius)			
1.			
2.			
3.			
4.			
5.			
	0	= Total Cover	

Herb Stratum (Plot size: 5 ft radius)			
1. *Eleocharis erythropoda*	60	Yes	OBL
2. *Cyperus esculentus*	15	No	FACW
3. *Panicum virgatum*	8	No	FAC
4. *Lythrum salicaria*	5	No	OBL
5. *Polygonum hydropiper*	5	No	OBL
6.			
7.			
8.			
9.			
10.			
	93	= Total Cover	

Woody Vine Stratum (Plot size: 30 ft radius)			
1.			
2.			
	0	= Total Cover	

Dominance Test worksheet:

Number of Dominant Species That are OBL, FACW, or FAC: _____ (A)

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

Percent of Dominant Species That are OBL, FACW, or FAC: _____ (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] 1-Rapid Test for Hydrophytic Vegetation
- [ ] 2-Dominance Test is >50%
- [ ] 3-Prevalence Index is < or =3.0[1]
- [ ] 4-Morphological Adaptations[1] (Provide supporting data in Remarks or on a 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**

Remarks: (Include photo numbers here or on a separate sheet.)

SOIL

Sampling Point: 19A

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 Features %	Type[1]	Loc[2]	Texture	Remarks
0-6	10YR 3/2	93	7.5YR 4/6	7	C	M	SIL	Underlain by gravel

[1] Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. [2] Location: PL=Pore Lining, M=Matrix

Hydric Soil Indicators:

- ☐ Histosol (A1)
- ☐ Histic Epipedon (A2)
- ☐ Black Histic (A3)
- ☐ Hydrogen Sulfide (A4)
- ☐ Stratified Layers (A5)
- ☐ 2 cm Muck (A10)
- ☐ Depleted Below Dark Surface (A11)
- ☐ Thick Dark Surface (A12)
- ☐ Sandy Mucky Mineral (S1)
- ☐ 5 cm Mucky Peat or Peat (S3)
- ☐ 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)

Indicators for Problematic Hydric Soils[3]:

- ☐ Coast Prairie Redox (A16)
- ☐ Dark Surface (S7)
- ☐ Iron-Manganese Masses (F12)
- ☐ Very Shallow Dark Surface (TF12)
- ☐ Other (Explain in Remarks)

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

Restrictive Layer (if observed):

Type: _____

Depth (inches): _____

Hydric Soil Present? **Yes**

Remarks:

HYDROLOGY

Wetland Hydrology Indicators:

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

- ☐ Surface Water (A1)
- ☐ High Water Table (A2)
- ☐ Saturation (A3)
- ☐ Water Marks (B1)
- ☐ Sediment Deposits (B2)
- ☐ Drift Deposits (B3)
- ☐ Algal Mat or Crust (B4)
- ☐ Iron Deposits (B5)
- ☐ Inundation Visible on Aerial Imagery (B7)
- ☐ Sparsely Vegetated Concave Surface (B8)
- ☐ Water-Stained Leaves (B9)
- ☐ Aquatic Fauna (B13)
- ☐ True Aquatic Plants (B14)
- ☐ Hydrogen Sulfide Odor (C1)
- ☐ Oxidized Rhizospheres on Living Roots (C3)
- ☐ Presence of Reduced Iron (C4)
- ☐ Recent Iron Reduction in Tilled Soils (C6)
- ☐ Thin Muck Surface (C7)
- ☐ Gauge or Well Data (D9)
- ☐ Other (Explain in Remarks)

Secondary Indicators (minimum of two is required)

- ☐ Surface Soil Cracks (B6)
- ☐ Drainage Patterns (B10)
- ☐ Dry-Season Water Table (C2)
- ☐ Crayfish Burrows (C8)
- ☐ Saturation Visible on Aerial Imagery (C9)
- ☐ Stunted or Stressed Plants (D1)
- ☑ Geomorphic Position (D2)
- ☑ FAC-Neutral Test (D5)

Field Observations:

Surface Water Present? No Depth (inches): _____

Water Table Present? No Depth (inches): _____

Saturation Present? (includes capillary fringe) No Depth (inches): _____

Wetland Hydrology Present? **Yes**

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

Remarks:

WETLAND DETERMINATION DATA FORM - Midwest Region

Project/Site: US 30 - Baseline Road (FAP 349) City/County: Kane Sampling Date 10/6/2014

Applicant/Owner: IDOT District 1 State: IL Sampling Point 19B

Investigator(s): Kenney, Marcum Section, Township, Range: Sec. 31, T38N, R8E

Landform (hillslope, terrace, etc.): Upland Local relief (concave, convex, none): Convex

Slope (%): 0-2 Lat: 41.72976 Long: -88.37472 Datum: NAD 83

Soil Map Unit Name: Warsaw loam, 0-2% slopes NWI classification: U

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

Are Vegetation No, Soil No, or Hydrology No significantly disturbed? Are "Normal Circumstances" present? Yes

Are Vegetation No, Soil No, or Hydrology No 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?	No	**Is the Sampled Area within a Wetland?** **No**
Hydric Soil Present?	No	
Wetland Hydrology Present?	No	

Remarks: Community type is non-native grassland.

VEGETATION - Use scientific names of plants.

Tree Stratum (Plot size: 30 ft radius)	Absolute % Cover	Dominant Species?	Indicator Status
1.			
2.			
3.			
4.			
5.			
	0	= Total Cover	

Sapling/Shrub Stratum (Plot size: 15 ft radius)			
1.			
2.			
3.			
4.			
5.			
	0	= Total Cover	

Herb Stratum (Plot size: 5 ft radius)			
1. *Festuca elatior*	60	Yes	FACU
2. *Poa pratensis*	40	Yes	FAC
3. *Taraxacum officinale*	1	No	FACU
4.			
5.			
6.			
7.			
8.			
9.			
10.			
	101	= Total Cover	

Woody Vine Stratum (Plot size: 30 ft radius)			
1.			
2.			
	0	= Total Cover	

Dominance Test worksheet:

Number of Dominant Species That are OBL, FACW, or 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		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

- ☐ 1-Rapid Test for Hydrophytic Vegetation
- ☐ 2-Dominance Test is >50%
- ☐ 3-Prevalence Index is < or =3.0[1]
- ☐ 4-Morphological Adaptations[1] (Provide supporting data in Remarks or on a 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? **No**

Remarks: (Include photo numbers here or on a separate sheet.)

SOIL

Sampling Point: 19B

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
0-5	10YR 3/2	100					SIL	
5-10	10YR 3/3	95	7.5YR 4/6	5	C	M	SICL	6% gravel

[1] Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. [2] Location: PL=Pore Lining, M=Matrix

Hydric Soil Indicators:

- ☐ Histosol (A1)
- ☐ Histic Epipedon (A2)
- ☐ Black Histic (A3)
- ☐ Hydrogen Sulfide (A4)
- ☐ Stratified Layers (A5)
- ☐ 2 cm Muck (A10)
- ☐ Depleted Below Dark Surface (A11)
- ☐ Thick Dark Surface (A12)
- ☐ Sandy Mucky Mineral (S1)
- ☐ 5 cm Mucky Peat or Peat (S3)
- ☐ 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)

Indicators for Problematic Hydric Soils[3]:

- ☐ Coast Prairie Redox (A16)
- ☐ Dark Surface (S7)
- ☐ Iron-Manganese Masses (F12)
- ☐ Very Shallow Dark Surface (TF12)
- ☐ Other (Explain in Remarks)

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

Restrictive Layer (if observed):

Type: _____

Depth (inches): _____

Hydric Soil Present? **No**

Remarks:

HYDROLOGY

Wetland Hydrology Indicators:

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

- ☐ Surface Water (A1)
- ☐ High Water Table (A2)
- ☐ Saturation (A3)
- ☐ Water Marks (B1)
- ☐ Sediment Deposits (B2)
- ☐ Drift Deposits (B3)
- ☐ Algal Mat or Crust (B4)
- ☐ Iron Deposits (B5)
- ☐ Inundation Visible on Aerial Imagery (B7)
- ☐ Sparsely Vegetated Concave Surface (B8)
- ☐ Water-Stained Leaves (B9)
- ☐ Aquatic Fauna (B13)
- ☐ True Aquatic Plants (B14)
- ☐ Hydrogen Sulfide Odor (C1)
- ☐ Oxidized Rhizospheres on Living Roots (C3)
- ☐ Presence of Reduced Iron (C4)
- ☐ Recent Iron Reduction in Tilled Soils (C6)
- ☐ Thin Muck Surface (C7)
- ☐ Gauge or Well Data (D9)
- ☐ Other (Explain in Remarks)

Secondary Indicators (minimum of two is required)

- ☐ Surface Soil Cracks (B6)
- ☐ Drainage Patterns (B10)
- ☐ Dry-Season Water Table (C2)
- ☐ Crayfish Burrows (C8)
- ☐ Saturation Visible on Aerial Imagery (C9)
- ☐ Stunted or Stressed Plants (D1)
- ☐ Geomorphic Position (D2)
- ☐ FAC-Neutral Test (D5)

Field Observations:

Surface Water Present? No Depth (inches): _____

Water Table Present? No Depth (inches): _____

Saturation Present? (includes capillary fringe) No Depth (inches): _____

Wetland Hydrology Present? **No**

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

Remarks:

WETLAND DETERMINATION DATA FORM - Midwest Region

Project/Site: US 30 - Baseline Road (FAP 349) City/County: Kane Sampling Date 10/7/2014

Applicant/Owner: IDOT District 1 State: IL Sampling Point 20A

Investigator(s): Kenney, Marcum Section, Township, Range: Sec. 31, T38N, R8E

Landform (hillslope, terrace, etc.): Depression Local relief (concave, convex, none): Concave

Slope (%): 0-2 Lat: 41.72640 Long: -88.36757 Datum: NAD 83

Soil Map Unit Name: NRCS mapped as Drummer silty clay loam, 0-2% slopes; revised to Entisol NWI classification: U

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

Are Vegetation No, Soil No, or Hydrology No significantly disturbed? Are "Normal Circumstances" present? Yes

Are Vegetation No, Soil No, or Hydrology No 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	**Is the Sampled Area within a Wetland?** **Yes**
Hydric Soil Present?	Yes	
Wetland Hydrology Present?	Yes	

Remarks: Community type is wet meadow.

VEGETATION - Use scientific names of plants.

Tree Stratum (Plot size: 30 ft radius)	Absolute % Cover	Dominant Species?	Indicator Status
1.			
2.			
3.			
4.			
5.			
	0	= Total Cover	

Sapling/Shrub Stratum (Plot size: 15 ft radius)			
1.			
2.			
3.			
4.			
5.			
	0	= Total Cover	

Herb Stratum (Plot size: 5 ft radius)			
1. *Phalaris arundinacea*	85	Yes	FACW
2. *Typha latifolia*	10	No	OBL
3. *Apocynum cannabinum*	2	No	FAC
4. *Polygonum coccineum*	2	No	OBL
5.			
6.			
7.			
8.			
9.			
10.			
	99	= Total Cover	

Woody Vine Stratum (Plot size: 30 ft radius)			
1.			
2.			
	0	= Total Cover	

Dominance Test worksheet:

Number of Dominant Species That are OBL, FACW, or FAC: _____ (A)

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

Percent of Dominant Species That are OBL, FACW, or FAC: _____ (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] 1-Rapid Test for Hydrophytic Vegetation
- [ ] 2-Dominance Test is >50%
- [ ] 3-Prevalence Index is < or =3.0[1]
- [ ] 4-Morphological Adaptations[1] (Provide supporting data in Remarks or on a 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**

Remarks: (Include photo numbers here or on a separate sheet.)

SOIL

Sampling Point: 20A

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 Features %	Type[1]	Loc[2]	Texture	Remarks
0-5	10YR 3/1	92	7.5YR 4/4	8	C	M	SICL	
5-10	10YR 4/2	90	10YR 4/6	10	C	M	SICL	

[1] Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. [2] Location: PL=Pore Lining, M=Matrix

Hydric Soil Indicators:

- ☐ Histosol (A1)
- ☐ Histic Epipedon (A2)
- ☐ Black Histic (A3)
- ☐ Hydrogen Sulfide (A4)
- ☐ Stratified Layers (A5)
- ☐ 2 cm Muck (A10)
- ☑ Depleted Below Dark Surface (A11)
- ☐ Thick Dark Surface (A12)
- ☐ Sandy Mucky Mineral (S1)
- ☐ 5 cm Mucky Peat or Peat (S3)
- ☐ 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)

Indicators for Problematic Hydric Soils[3]:

- ☐ Coast Prairie Redox (A16)
- ☐ Dark Surface (S7)
- ☐ Iron-Manganese Masses (F12)
- ☐ Very Shallow Dark Surface (TF12)
- ☐ Other (Explain in Remarks)

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

Restrictive Layer (if observed):

Type: _____

Depth (inches): _____

Hydric Soil Present? **Yes**

Remarks:

HYDROLOGY

Wetland Hydrology Indicators:

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

- ☑ Surface Water (A1)
- ☑ High Water Table (A2)
- ☑ Saturation (A3)
- ☐ Water Marks (B1)
- ☐ Sediment Deposits (B2)
- ☐ Drift Deposits (B3)
- ☐ Algal Mat or Crust (B4)
- ☐ Iron Deposits (B5)
- ☐ Inundation Visible on Aerial Imagery (B7)
- ☐ Sparsely Vegetated Concave Surface (B8)
- ☐ Water-Stained Leaves (B9)
- ☐ Aquatic Fauna (B13)
- ☑ True Aquatic Plants (B14)
- ☐ Hydrogen Sulfide Odor (C1)
- ☐ Oxidized Rhizospheres on Living Roots (C3)
- ☐ Presence of Reduced Iron (C4)
- ☐ Recent Iron Reduction in Tilled Soils (C6)
- ☐ Thin Muck Surface (C7)
- ☐ Gauge or Well Data (D9)
- ☐ Other (Explain in Remarks)

Secondary Indicators (minimum of two is required)

- ☐ Surface Soil Cracks (B6)
- ☐ Drainage Patterns (B10)
- ☐ Dry-Season Water Table (C2)
- ☐ Crayfish Burrows (C8)
- ☐ Saturation Visible on Aerial Imagery (C9)
- ☐ Stunted or Stressed Plants (D1)
- ☑ Geomorphic Position (D2)
- ☑ FAC-Neutral Test (D5)

Field Observations:

Surface Water Present? Yes Depth (inches): <12

Water Table Present? Yes Depth (inches): 0

Saturation Present? (includes capillary fringe) Yes Depth (inches): 0

Wetland Hydrology Present? **Yes**

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

Remarks:

WETLAND DETERMINATION DATA FORM - Midwest Region

Project/Site: US 30 - Baseline Road (FAP 349) City/County: Kane Sampling Date 10/7/2014

Applicant/Owner: IDOT District 1 State: IL Sampling Point 20B

Investigator(s): Kenney, Marcum Section, Township, Range: Sec. 31, T38N, R8E

Landform (hillslope, terrace, etc.): Upland Local relief (concave, convex, none): Convex

Slope (%): 0-2 Lat: 41.72617 Long: -88.36773 Datum: NAD 83

Soil Map Unit Name: NRCS mapped as Drummer silty clay loam, 0-2% slopes; revised to Entisol NWI classification: U

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

Are Vegetation No, Soil No, or Hydrology No significantly disturbed? Are "Normal Circumstances" present? Yes

Are Vegetation No, Soil No, or Hydrology No 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	**Is the Sampled Area within a Wetland?**	**No**
Hydric Soil Present?	Yes		
Wetland Hydrology Present?	No		

Remarks: Community type is non-native grassland.

VEGETATION - Use scientific names of plants.

Tree Stratum (Plot size: 30 ft radius)	Absolute % Cover	Dominant Species?	Indicator Status
1.			
2.			
3.			
4.			
5.			
	0	= Total Cover	

Sapling/Shrub Stratum (Plot size: 15 ft radius)			
1.			
2.			
3.			
4.			
5.			
	0	= Total Cover	

Herb Stratum (Plot size: 5 ft radius)			
1. *Poa pratensis*	85	Yes	FAC
2. *Taraxacum officinale*	10	No	FACU
3. *Carex sp.*	1	No	-
4. *Convolvulus sepium*	1	No	FAC
5. *Plantago rugelii*	1	No	FAC
6.			
7.			
8.			
9.			
10.			
	98	= Total Cover	

Woody Vine Stratum (Plot size: 30 ft radius)			
1.			
2.			
	0	= Total Cover	

Dominance Test worksheet:

Number of Dominant Species That are OBL, FACW, or 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

- ☐ 1-Rapid Test for Hydrophytic Vegetation
- ☑ 2-Dominance Test is >50%
- ☐ 3-Prevalence Index is < or =3.0[1]
- ☐ 4-Morphological Adaptations[1] (Provide supporting data in Remarks or on a 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**

Remarks: (Include photo numbers here or on a separate sheet.)

SOIL

Sampling Point: 20B

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
0-3	10YR 3/1	100					SICL	
3-8	10YR 4/1	91	10YR 4/6	9	C	M	SICL	

[1] Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. [2] Location: PL=Pore Lining, M=Matrix

Hydric Soil Indicators:

- ☐ Histosol (A1)
- ☐ Histic Epipedon (A2)
- ☐ Black Histic (A3)
- ☐ Hydrogen Sulfide (A4)
- ☐ Stratified Layers (A5)
- ☐ 2 cm Muck (A10)
- ☑ Depleted Below Dark Surface (A11)
- ☐ Thick Dark Surface (A12)
- ☐ Sandy Mucky Mineral (S1)
- ☐ 5 cm Mucky Peat or Peat (S3)
- ☐ 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)

Indicators for Problematic Hydric Soils[3]:

- ☐ Coast Prairie Redox (A16)
- ☐ Dark Surface (S7)
- ☐ Iron-Manganese Masses (F12)
- ☐ Very Shallow Dark Surface (TF12)
- ☐ Other (Explain in Remarks)

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

Restrictive Layer (if observed):

Type: _____

Depth (inches): _____

Hydric Soil Present? **Yes**

Remarks:

HYDROLOGY

Wetland Hydrology Indicators:

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

- ☐ Surface Water (A1)
- ☐ High Water Table (A2)
- ☐ Saturation (A3)
- ☐ Water Marks (B1)
- ☐ Sediment Deposits (B2)
- ☐ Drift Deposits (B3)
- ☐ Algal Mat or Crust (B4)
- ☐ Iron Deposits (B5)
- ☐ Inundation Visible on Aerial Imagery (B7)
- ☐ Sparsely Vegetated Concave Surface (B8)
- ☐ Water-Stained Leaves (B9)
- ☐ Aquatic Fauna (B13)
- ☐ True Aquatic Plants (B14)
- ☐ Hydrogen Sulfide Odor (C1)
- ☐ Oxidized Rhizospheres on Living Roots (C3)
- ☐ Presence of Reduced Iron (C4)
- ☐ Recent Iron Reduction in Tilled Soils (C6)
- ☐ Thin Muck Surface (C7)
- ☐ Gauge or Well Data (D9)
- ☐ Other (Explain in Remarks)

Secondary Indicators (minimum of two is required)

- ☐ Surface Soil Cracks (B6)
- ☐ Drainage Patterns (B10)
- ☐ Dry-Season Water Table (C2)
- ☐ Crayfish Burrows (C8)
- ☐ Saturation Visible on Aerial Imagery (C9)
- ☐ Stunted or Stressed Plants (D1)
- ☐ Geomorphic Position (D2)
- ☐ FAC-Neutral Test (D5)

Field Observations:

Surface Water Present? No Depth (inches): _____

Water Table Present? No Depth (inches): _____

Saturation Present? (includes capillary fringe) No Depth (inches): _____

Wetland Hydrology Present? **No**

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

Remarks:

WETLAND DETERMINATION DATA FORM - Midwest Region

Project/Site: US 30 - Baseline Road (FAP 349) City/County: Kendall Sampling Date 10/7/2014

Applicant/Owner: IDOT District 1 State: IL Sampling Point 21A

Investigator(s): Kenney, Marcum Section, Township, Range: Sec. 32, T38N, R8E

Landform (hillslope, terrace, etc.): Depression Local relief (concave, convex, none): Concave

Slope (%): 0-2 Lat: 41.72399 Long: -88.35488 Datum: NAD 83

Soil Map Unit Name: NRCS mapped as Fox silt loam, 4-6% slopes, eroded; revised to Mollisol NWI classification: U

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

Are Vegetation No, Soil No, or Hydrology No significantly disturbed? Are "Normal Circumstances" present? Yes

Are Vegetation No, Soil No, or Hydrology No 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	**Is the Sampled Area within a Wetland?**	**Yes**
Hydric Soil Present?	Yes		
Wetland Hydrology Present?	Yes		

Remarks: Community type is wet meadow.

VEGETATION - Use scientific names of plants.

Tree Stratum (Plot size: 30 ft radius)	Absolute % Cover	Dominant Species?	Indicator Status
1.			
2.			
3.			
4.			
5.			
	0	= Total Cover	

Sapling/Shrub Stratum (Plot size: 15 ft radius)			
1.			
2.			
3.			
4.			
5.			
	0	= Total Cover	

Herb Stratum (Plot size: 5 ft radius)			
1. *Phalaris arundinacea*	99	Yes	FACW
2.			
3.			
4.			
5.			
6.			
7.			
8.			
9.			
10.			
	99	= Total Cover	

Woody Vine Stratum (Plot size: 30 ft radius)			
1.			
2.			
	0	= Total Cover	

Dominance Test worksheet:

Number of Dominant Species That are OBL, FACW, or FAC: _____ (A)

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

Percent of Dominant Species That are OBL, FACW, or FAC: _____ (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] 1-Rapid Test for Hydrophytic Vegetation
- [ ] 2-Dominance Test is >50%
- [ ] 3-Prevalence Index is < or =3.0[1]
- [ ] 4-Morphological Adaptations[1] (Provide supporting data in Remarks or on a 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**

Remarks: (Include photo numbers here or on a separate sheet.)

SOIL

Sampling Point: 21A

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
0-7	10YR 2/1	100					SICL	
7-13	10YR 3/1	92	10YR 4/6	8	C	M	SICL	

[1] Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. [2] Location: PL=Pore Lining, M=Matrix

Hydric Soil Indicators:

- ☐ Histosol (A1)
- ☐ Histic Epipedon (A2)
- ☐ Black Histic (A3)
- ☐ Hydrogen Sulfide (A4)
- ☐ Stratified Layers (A5)
- ☐ 2 cm Muck (A10)
- ☐ Depleted Below Dark Surface (A11)
- ☐ Thick Dark Surface (A12)
- ☐ Sandy Mucky Mineral (S1)
- ☐ 5 cm Mucky Peat or Peat (S3)
- ☐ 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)

Indicators for Problematic Hydric Soils[3]:

- ☐ Coast Prairie Redox (A16)
- ☐ Dark Surface (S7)
- ☐ Iron-Manganese Masses (F12)
- ☐ Very Shallow Dark Surface (TF12)
- ☐ Other (Explain in Remarks)

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

Restrictive Layer (if observed):

Type: _____

Depth (inches): _____

Hydric Soil Present? **Yes**

Remarks:

HYDROLOGY

Wetland Hydrology Indicators:

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

- ☐ Surface Water (A1)
- ☐ High Water Table (A2)
- ☐ Saturation (A3)
- ☐ Water Marks (B1)
- ☐ Sediment Deposits (B2)
- ☐ Drift Deposits (B3)
- ☐ Algal Mat or Crust (B4)
- ☐ Iron Deposits (B5)
- ☐ Inundation Visible on Aerial Imagery (B7)
- ☐ Sparsely Vegetated Concave Surface (B8)
- ☐ Water-Stained Leaves (B9)
- ☐ Aquatic Fauna (B13)
- ☐ True Aquatic Plants (B14)
- ☐ Hydrogen Sulfide Odor (C1)
- ☐ Oxidized Rhizospheres on Living Roots (C3)
- ☐ Presence of Reduced Iron (C4)
- ☐ Recent Iron Reduction in Tilled Soils (C6)
- ☐ Thin Muck Surface (C7)
- ☐ Gauge or Well Data (D9)
- ☐ Other (Explain in Remarks)

Secondary Indicators (minimum of two is required)

- ☐ Surface Soil Cracks (B6)
- ☐ Drainage Patterns (B10)
- ☐ Dry-Season Water Table (C2)
- ☐ Crayfish Burrows (C8)
- ☐ Saturation Visible on Aerial Imagery (C9)
- ☐ Stunted or Stressed Plants (D1)
- ☑ Geomorphic Position (D2)
- ☑ FAC-Neutral Test (D5)

Field Observations:

Surface Water Present? No Depth (inches): _____

Water Table Present? No Depth (inches): _____

Saturation Present? (includes capillary fringe) No Depth (inches): _____

Wetland Hydrology Present? **Yes**

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

Remarks:

WETLAND DETERMINATION DATA FORM - Midwest Region

Project/Site: US 30 - Baseline Road (FAP 349) City/County: Kendall Sampling Date 10/7/2014

Applicant/Owner: IDOT District 1 State: IL Sampling Point 21B

Investigator(s): Kenney, Marcum Section, Township, Range: Sec. 32, T38N, R8E

Landform (hillslope, terrace, etc.): Upland Local relief (concave, convex, none): Convex

Slope (%): 2 Lat: 41.72411 Long: -88.35456 Datum: NAD 83

Soil Map Unit Name: Fox silt loam, 4-6% slopes, eroded NWI classification: U

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

Are Vegetation No, Soil No, or Hydrology No significantly disturbed? Are "Normal Circumstances" present? Yes

Are Vegetation No, Soil No, or Hydrology No 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?	No	**Is the Sampled Area within a Wetland?** **No**
Hydric Soil Present?	No	
Wetland Hydrology Present?	No	

Remarks: Community type is non-native grassland.

VEGETATION - Use scientific names of plants.

Tree Stratum (Plot size: 30 ft radius)	Absolute % Cover	Dominant Species?	Indicator Status
1.			
2.			
3.			
4.			
5.			
	0	= Total Cover	
Sapling/Shrub Stratum (Plot size: 15 ft radius)			
1. *Morus alba*	1	No	FAC
2. *Ulmus pumila*	1	No	UPL
3.			
4.			
5.			
	2	= Total Cover	
Herb Stratum (Plot size: 5 ft radius)			
1. *Poa pratensis*	45	Yes	FAC
2. *Bromus inermis*	25	Yes	FACU
3. *Festuca elatior*	20	Yes	FACU
4. *Plantago lanceolata*	4	No	FACU
5.			
6.			
7.			
8.			
9.			
10.			
	94	= Total Cover	
Woody Vine Stratum (Plot size: 30 ft radius)			
1.			
2.			
	0	= Total Cover	

Dominance Test worksheet:

Number of Dominant Species That are OBL, FACW, or FAC: 1 (A)

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

Percent of Dominant Species That are OBL, FACW, or FAC: 33% (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

- ☐ 1-Rapid Test for Hydrophytic Vegetation
- ☐ 2-Dominance Test is >50%
- ☐ 3-Prevalence Index is < or =3.0[1]
- ☐ 4-Morphological Adaptations[1] (Provide supporting data in Remarks or on a 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? **No**

Remarks: (Include photo numbers here or on a separate sheet.)

SOIL

Sampling Point: 21B

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
0-8	10YR 3/2	100					SICL	

[1] Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. [2] Location: PL=Pore Lining, M=Matrix

Hydric Soil Indicators:

- ☐ Histosol (A1)
- ☐ Histic Epipedon (A2)
- ☐ Black Histic (A3)
- ☐ Hydrogen Sulfide (A4)
- ☐ Stratified Layers (A5)
- ☐ 2 cm Muck (A10)
- ☐ Depleted Below Dark Surface (A11)
- ☐ Thick Dark Surface (A12)
- ☐ Sandy Mucky Mineral (S1)
- ☐ 5 cm Mucky Peat or Peat (S3)
- ☐ 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)

Indicators for Problematic Hydric Soils[3]:

- ☐ Coast Prairie Redox (A16)
- ☐ Dark Surface (S7)
- ☐ Iron-Manganese Masses (F12)
- ☐ Very Shallow Dark Surface (TF12)
- ☐ Other (Explain in Remarks)

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

Restrictive Layer (if observed):

Type: _____

Depth (inches): _____

Hydric Soil Present? **No**

Remarks:

HYDROLOGY

Wetland Hydrology Indicators:

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

- ☐ Surface Water (A1)
- ☐ High Water Table (A2)
- ☐ Saturation (A3)
- ☐ Water Marks (B1)
- ☐ Sediment Deposits (B2)
- ☐ Drift Deposits (B3)
- ☐ Algal Mat or Crust (B4)
- ☐ Iron Deposits (B5)
- ☐ Inundation Visible on Aerial Imagery (B7)
- ☐ Sparsely Vegetated Concave Surface (B8)
- ☐ Water-Stained Leaves (B9)
- ☐ Aquatic Fauna (B13)
- ☐ True Aquatic Plants (B14)
- ☐ Hydrogen Sulfide Odor (C1)
- ☐ Oxidized Rhizospheres on Living Roots (C3)
- ☐ Presence of Reduced Iron (C4)
- ☐ Recent Iron Reduction in Tilled Soils (C6)
- ☐ Thin Muck Surface (C7)
- ☐ Gauge or Well Data (D9)
- ☐ Other (Explain in Remarks)

Secondary Indicators (minimum of two is required)

- ☐ Surface Soil Cracks (B6)
- ☐ Drainage Patterns (B10)
- ☐ Dry-Season Water Table (C2)
- ☐ Crayfish Burrows (C8)
- ☐ Saturation Visible on Aerial Imagery (C9)
- ☐ Stunted or Stressed Plants (D1)
- ☐ Geomorphic Position (D2)
- ☐ FAC-Neutral Test (D5)

Field Observations:

Surface Water Present? No Depth (inches): _____

Water Table Present? No Depth (inches): _____

Saturation Present? (includes capillary fringe) No Depth (inches): _____

Wetland Hydrology Present? **No**

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

Remarks:

WETLAND DETERMINATION DATA FORM - Midwest Region

Project/Site: US 30 - Baseline Road (FAP 349) City/County: Kane Sampling Date 10/21/2014

Applicant/Owner: IDOT District 1 State: IL Sampling Point 22A

Investigator(s): Kenney, McIntyre Section, Township, Range: Sec. 32, T38N, R8E

Landform (hillslope, terrace, etc.): Excavated depression Local relief (concave, convex, none): Concave

Slope (%): 2-6 Lat: 41.72398 Long: -88.35168 Datum: NAD 83

Soil Map Unit Name: NRCS mapped as Orthents, loamy, undulating; revised to Aquents NWI classification: U

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

Are Vegetation No, Soil No, or Hydrology No significantly disturbed? Are "Normal Circumstances" present? Yes

Are Vegetation No, Soil No, or Hydrology No 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	**Is the Sampled Area within a Wetland?** **Yes**
Hydric Soil Present?	Yes	
Wetland Hydrology Present?	Yes	

Remarks: Community type is wetland pond.

VEGETATION - Use scientific names of plants.

Tree Stratum (Plot size: 30 ft radius)	Absolute % Cover	Dominant Species?	Indicator Status
1.			
2.			
3.			
4.			
5.			
		= Total Cover	

Sapling/Shrub Stratum (Plot size: 15 ft radius)			
1.			
2.			
3.			
4.			
5.			
		= Total Cover	

Herb Stratum (Plot size: 5 ft radius)			
1. *Typha angustifolia*	8	Yes	OBL
2. *Proserpinaca palustris var. crebra*	5	Yes	OBL
3. *Panicum dichotomiflorum*	4	No	FACW
4. *Typha x glauca*	4	No	OBL
5.			
6.			
7.			
8.			
9.			
10.			
		= Total Cover	

Woody Vine Stratum (Plot size: 30 ft radius)			
1.			
2.			
		= Total Cover	

Dominance Test worksheet:

Number of Dominant Species That are OBL, FACW, or FAC: _____ (A)

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

Percent of Dominant Species That are OBL, FACW, or FAC: _____ (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] 1-Rapid Test for Hydrophytic Vegetation
- [ ] 2-Dominance Test is >50%
- [ ] 3-Prevalence Index is < or =3.0[1]
- [ ] 4-Morphological Adaptations[1] (Provide supporting data in Remarks or on a 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**

Remarks: (Include photo numbers here or on a separate sheet.)

SOIL

Sampling Point: 22A

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 Features %	Type[1]	Loc[2]	Texture	Remarks
0-2	2.5Y 3/1	90	10YR 4/6	10	C	M	SIL	
2-6	10YR 3/1	95	10YR 4/6	5	C	M	SICL	

[1] Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. [2] Location: PL=Pore Lining, M=Matrix

Hydric Soil Indicators:

- ☐ Histosol (A1)
- ☐ Histic Epipedon (A2)
- ☐ Black Histic (A3)
- ☐ Hydrogen Sulfide (A4)
- ☐ Stratified Layers (A5)
- ☐ 2 cm Muck (A10)
- ☐ Depleted Below Dark Surface (A11)
- ☐ Thick Dark Surface (A12)
- ☐ Sandy Mucky Mineral (S1)
- ☐ 5 cm Mucky Peat or Peat (S3)
- ☐ 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)

Indicators for Problematic Hydric Soils[3]:

- ☐ Coast Prairie Redox (A16)
- ☐ Dark Surface (S7)
- ☐ Iron-Manganese Masses (F12)
- ☐ Very Shallow Dark Surface (TF12)
- ☐ Other (Explain in Remarks)

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

Restrictive Layer (if observed):

Type: _____

Depth (inches): _____

Hydric Soil Present? **Yes**

Remarks:

HYDROLOGY

Wetland Hydrology Indicators:

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

- ☑ Surface Water (A1)
- ☑ High Water Table (A2)
- ☑ Saturation (A3)
- ☐ Water Marks (B1)
- ☐ Sediment Deposits (B2)
- ☐ Drift Deposits (B3)
- ☐ Algal Mat or Crust (B4)
- ☐ Iron Deposits (B5)
- ☐ Inundation Visible on Aerial Imagery (B7)
- ☐ Sparsely Vegetated Concave Surface (B8)
- ☐ Water-Stained Leaves (B9)
- ☐ Aquatic Fauna (B13)
- ☐ True Aquatic Plants (B14)
- ☐ Hydrogen Sulfide Odor (C1)
- ☐ Oxidized Rhizospheres on Living Roots (C3)
- ☐ Presence of Reduced Iron (C4)
- ☐ Recent Iron Reduction in Tilled Soils (C6)
- ☐ Thin Muck Surface (C7)
- ☐ Gauge or Well Data (D9)
- ☐ Other (Explain in Remarks)

Secondary Indicators (minimum of two is required)

- ☑ Surface Soil Cracks (B6)
- ☐ Drainage Patterns (B10)
- ☐ Dry-Season Water Table (C2)
- ☐ Crayfish Burrows (C8)
- ☐ Saturation Visible on Aerial Imagery (C9)
- ☐ Stunted or Stressed Plants (D1)
- ☑ Geomorphic Position (D2)
- ☑ FAC-Neutral Test (D5)

Field Observations:

Surface Water Present? Yes Depth (inches): <12

Water Table Present? Yes Depth (inches): 0

Saturation Present? (includes capillary fringe) Yes Depth (inches): 0

Wetland Hydrology Present? **Yes**

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

Remarks:

WETLAND DETERMINATION DATA FORM - Midwest Region

Project/Site: US 30 - Baseline Road (FAP 349) City/County: Kane Sampling Date 10/21/2014

Applicant/Owner: IDOT District 1 State: IL Sampling Point 22B

Investigator(s): Kenney, McIntyre Section, Township, Range: Sec. 32, T38N, R8E

Landform (hillslope, terrace, etc.): Upland Local relief (concave, convex, none): Convex

Slope (%): 2-6 Lat: 41.72420 Long: -88.35190 Datum: NAD 83

Soil Map Unit Name: NRCS mapped as Orthents, loamy, undulating; revised to Aquents NWI classification: U

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

Are Vegetation No, Soil No, or Hydrology No significantly disturbed? Are "Normal Circumstances" present? Yes

Are Vegetation No, Soil No, or Hydrology No 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?	No	**Is the Sampled Area within a Wetland?** **No**
Hydric Soil Present?	Yes	
Wetland Hydrology Present?	No	

Remarks: Community type is forbland.

VEGETATION - Use scientific names of plants.

Tree Stratum (Plot size: 30 ft radius)	Absolute % Cover	Dominant Species?	Indicator Status
1.			
2.			
3.			
4.			
5.			
		= Total Cover	

Sapling/Shrub Stratum (Plot size: 15 ft radius)			
1.			
2.			
3.			
4.			
5.			
		= Total Cover	

Herb Stratum (Plot size: 5 ft radius)			
1. *Melilotus alba*	30	Yes	FACU
2. *Coronilla varia*	25	Yes	UPL
3. *Phalaris arundinacea*	7	No	FACW
4. *Trifolium hybridum*	7	No	FACU
5. *Elymus canadensis*	4	No	FACU
6. *Verbascum thapsus*	4	No	UPL
7. *Panicum dichotomiflorum*	3	No	FACW
8. *Abutilon theophrasti*	2	No	FACU
9. *Oenothera biennis*	2	No	FACU
10. *Plantago lanceolata*	2	No	FACU
	90	= Total Cover	

Woody Vine Stratum (Plot size: 30 ft radius)			
1.			
2.			
		= Total Cover	

Dominance Test worksheet:

Number of Dominant Species That are OBL, FACW, or 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		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

- ☐ 1-Rapid Test for Hydrophytic Vegetation
- ☐ 2-Dominance Test is >50%
- ☐ 3-Prevalence Index is < or =3.0[1]
- ☐ 4-Morphological Adaptations[1] (Provide supporting data in Remarks or on a 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? **No**

Remarks: (Include photo numbers here or on a separate sheet.)
Additional species were present in the herb stratum.

SOIL

Sampling Point: 22B

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
0-10	10YR 3/1	42	10YR 5/8	6	C	M	SICL	Highly disturbed
0-10	10YR 4/1	52						

[1] Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. [2] Location: PL=Pore Lining, M=Matrix

Hydric Soil Indicators:

- ☐ Histosol (A1)
- ☐ Histic Epipedon (A2)
- ☐ Black Histic (A3)
- ☐ Hydrogen Sulfide (A4)
- ☐ Stratified Layers (A5)
- ☐ 2 cm Muck (A10)
- ☐ Depleted Below Dark Surface (A11)
- ☐ Thick Dark Surface (A12)
- ☐ Sandy Mucky Mineral (S1)
- ☐ 5 cm Mucky Peat or Peat (S3)
- ☐ 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)

Indicators for Problematic Hydric Soils[3]:

- ☐ Coast Prairie Redox (A16)
- ☐ Dark Surface (S7)
- ☐ Iron-Manganese Masses (F12)
- ☐ Very Shallow Dark Surface (TF12)
- ☐ Other (Explain in Remarks)

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

Restrictive Layer (if observed):

Type: _____

Depth (inches): _____

Hydric Soil Present? **Yes**

Remarks:

HYDROLOGY

Wetland Hydrology Indicators:

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

- ☐ Surface Water (A1)
- ☐ High Water Table (A2)
- ☐ Saturation (A3)
- ☐ Water Marks (B1)
- ☐ Sediment Deposits (B2)
- ☐ Drift Deposits (B3)
- ☐ Algal Mat or Crust (B4)
- ☐ Iron Deposits (B5)
- ☐ Inundation Visible on Aerial Imagery (B7)
- ☐ Sparsely Vegetated Concave Surface (B8)
- ☐ Water-Stained Leaves (B9)
- ☐ Aquatic Fauna (B13)
- ☐ True Aquatic Plants (B14)
- ☐ Hydrogen Sulfide Odor (C1)
- ☐ Oxidized Rhizospheres on Living Roots (C3)
- ☐ Presence of Reduced Iron (C4)
- ☐ Recent Iron Reduction in Tilled Soils (C6)
- ☐ Thin Muck Surface (C7)
- ☐ Gauge or Well Data (D9)
- ☐ Other (Explain in Remarks)

Secondary Indicators (minimum of two is required)

- ☐ Surface Soil Cracks (B6)
- ☐ Drainage Patterns (B10)
- ☐ Dry-Season Water Table (C2)
- ☐ Crayfish Burrows (C8)
- ☐ Saturation Visible on Aerial Imagery (C9)
- ☐ Stunted or Stressed Plants (D1)
- ☐ Geomorphic Position (D2)
- ☐ FAC-Neutral Test (D5)

Field Observations:

Surface Water Present? No Depth (inches): _____

Water Table Present? No Depth (inches): _____

Saturation Present? (includes capillary fringe) No Depth (inches): _____

Wetland Hydrology Present? **No**

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

Remarks:

WETLAND DETERMINATION DATA FORM - Midwest Region

Project/Site: US 30 - Baseline Road (FAP 349) City/County: Kane Sampling Date 10/21/2014

Applicant/Owner: IDOT District 1 State: IL Sampling Point 23A

Investigator(s): Kenney, McIntyre Section, Township, Range: Sec. 32, T38N, R8E

Landform (hillslope, terrace, etc.): Excavated depression Local relief (concave, convex, none): Concave

Slope (%): 0-2 Lat: 41.72589 Long: -88.34981 Datum: NAD 83

Soil Map Unit Name: Drummer silty clay loam, 0-2% slopes NWI classification: U

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

Are Vegetation No , Soil No , or Hydrology No significantly disturbed? Are "Normal Circumstances" present? Yes

Are Vegetation No , Soil No , or Hydrology No 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	**Is the Sampled Area within a Wetland?**	**Yes**
Hydric Soil Present?	Yes		
Wetland Hydrology Present?	Yes		

Remarks: Community type is wetland pond.
This site was newly excavated, landscaped, and mostly unvegetated.

VEGETATION - Use scientific names of plants.

Tree Stratum (Plot size: 30 ft radius)	Absolute % Cover	Dominant Species?	Indicator Status
1.			
2.			
3.			
4.			
5.			
		= Total Cover	

Sapling/Shrub Stratum (Plot size: 15 ft radius)			
1.			
2.			
3.			
4.			
5.			
		= Total Cover	

Herb Stratum (Plot size: 5 ft radius)			
1. *Panicum dichotomiflorum*	8	Yes	FACW
2. *Echinochloa crusgalli*	5	Yes	OBL
3. *Polygonum persicaria*	5	Yes	FACW
4. *Bidens frondosa*	3	No	FACW
5. *Ranunculus sceleratus*	2	No	OBL
6.			
7.			
8.			
9.			
10.			
	23	= Total Cover	

Woody Vine Stratum (Plot size: 30 ft radius)			
1.			
2.			
		= Total Cover	

Dominance Test worksheet:

Number of Dominant Species That are OBL, FACW, or FAC: _____ (A)

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

Percent of Dominant Species That are OBL, FACW, or FAC: _____ (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] 1-Rapid Test for Hydrophytic Vegetation
- [ ] 2-Dominance Test is >50%
- [ ] 3-Prevalence Index is < or =3.0[1]
- [ ] 4-Morphological Adaptations[1] (Provide supporting data in Remarks or on a 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**

Remarks: (Include photo numbers here or on a separate sheet.)

SOIL

Sampling Point: 23A

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 Features %	Type[1]	Loc[2]	Texture	Remarks
0-6	10YR 3/1	87	10YR 4/6	13	C	M	SICL	Underlain by gravel layer

[1] Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. [2] Location: PL=Pore Lining, M=Matrix

Hydric Soil Indicators:

- ☐ Histosol (A1)
- ☐ Histic Epipedon (A2)
- ☐ Black Histic (A3)
- ☐ Hydrogen Sulfide (A4)
- ☐ Stratified Layers (A5)
- ☐ 2 cm Muck (A10)
- ☐ Depleted Below Dark Surface (A11)
- ☐ Thick Dark Surface (A12)
- ☐ Sandy Mucky Mineral (S1)
- ☐ 5 cm Mucky Peat or Peat (S3)
- ☐ 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)

Indicators for Problematic Hydric Soils[3]:

- ☐ Coast Prairie Redox (A16)
- ☐ Dark Surface (S7)
- ☐ Iron-Manganese Masses (F12)
- ☐ Very Shallow Dark Surface (TF12)
- ☐ Other (Explain in Remarks)

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

Restrictive Layer (if observed):

Type: _____

Depth (inches): _____

Hydric Soil Present? **Yes**

Remarks:

HYDROLOGY

Wetland Hydrology Indicators:

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

- ☑ Surface Water (A1)
- ☑ High Water Table (A2)
- ☑ Saturation (A3)
- ☐ Water Marks (B1)
- ☐ Sediment Deposits (B2)
- ☐ Drift Deposits (B3)
- ☐ Algal Mat or Crust (B4)
- ☐ Iron Deposits (B5)
- ☐ Inundation Visible on Aerial Imagery (B7)
- ☐ Sparsely Vegetated Concave Surface (B8)
- ☐ Water-Stained Leaves (B9)
- ☐ Aquatic Fauna (B13)
- ☑ True Aquatic Plants (B14)
- ☐ Hydrogen Sulfide Odor (C1)
- ☐ Oxidized Rhizospheres on Living Roots (C3)
- ☐ Presence of Reduced Iron (C4)
- ☐ Recent Iron Reduction in Tilled Soils (C6)
- ☐ Thin Muck Surface (C7)
- ☐ Gauge or Well Data (D9)
- ☐ Other (Explain in Remarks)

Secondary Indicators (minimum of two is required)

- ☐ Surface Soil Cracks (B6)
- ☐ Drainage Patterns (B10)
- ☐ Dry-Season Water Table (C2)
- ☐ Crayfish Burrows (C8)
- ☐ Saturation Visible on Aerial Imagery (C9)
- ☐ Stunted or Stressed Plants (D1)
- ☑ Geomorphic Position (D2)
- ☑ FAC-Neutral Test (D5)

Field Observations:

Surface Water Present? Yes Depth (inches): <12

Water Table Present? Yes Depth (inches): 0

Saturation Present? (includes capillary fringe) Yes Depth (inches): 0

Wetland Hydrology Present? **Yes**

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

Remarks:

WETLAND DETERMINATION DATA FORM - Midwest Region

Project/Site: US 30 - Baseline Road (FAP 349) City/County: Kane Sampling Date 10/21/2014

Applicant/Owner: IDOT District 1 State: IL Sampling Point 23B

Investigator(s): Kenney, McIntyre Section, Township, Range: Sec. 32, T38N, R8E

Landform (hillslope, terrace, etc.): Hillslope Local relief (concave, convex, none): Convex

Slope (%): 6 Lat: 41.72480 Long: -88.35018 Datum: NAD 83

Soil Map Unit Name: Orthents, loamy, undulating NWI classification: U

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

Are Vegetation No, Soil No, or Hydrology No significantly disturbed? Are "Normal Circumstances" present? Yes

Are Vegetation No, Soil No, or Hydrology No 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?	No	**Is the Sampled Area within a Wetland?** **No**
Hydric Soil Present?	No	
Wetland Hydrology Present?	No	

Remarks: Community type is barren land.
This site was newly landscaped and covered with erosion control netting. It was unvegetated at the time of the survey.

VEGETATION - Use scientific names of plants.

Tree Stratum (Plot size: 30 ft radius)	Absolute % Cover	Dominant Species?	Indicator Status
1.			
2.			
3.			
4.			
5.			
		= Total Cover	

Sapling/Shrub Stratum (Plot size: 15 ft radius)			
1.			
2.			
3.			
4.			
5.			
		= Total Cover	

Herb Stratum (Plot size: 5 ft radius)			
1.			
2.			
3.			
4.			
5.			
6.			
7.			
8.			
9.			
10.			
		= Total Cover	

Woody Vine Stratum (Plot size: 30 ft radius)			
1.			
2.			
		= Total Cover	

Dominance Test worksheet:

Number of Dominant Species That are OBL, FACW, or FAC: _____ (A)

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

Percent of Dominant Species That are OBL, FACW, or FAC: _____ (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

- ☐ 1-Rapid Test for Hydrophytic Vegetation
- ☐ 2-Dominance Test is >50%
- ☐ 3-Prevalence Index is < or =3.0[1]
- ☐ 4-Morphological Adaptations[1] (Provide supporting data in Remarks or on a 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? **No**

Remarks: (Include photo numbers here or on a separate sheet.)
This site has been recently cleared of vegetation and is covered with erosion control netting.

SOIL

Sampling Point: 23B

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
0-6	10YR 3/1	100					SICL	Underlain by gravel layer

[1] Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. [2] Location: PL=Pore Lining, M=Matrix

Hydric Soil Indicators:

- ☐ Histosol (A1)
- ☐ Histic Epipedon (A2)
- ☐ Black Histic (A3)
- ☐ Hydrogen Sulfide (A4)
- ☐ Stratified Layers (A5)
- ☐ 2 cm Muck (A10)
- ☐ Depleted Below Dark Surface (A11)
- ☐ Thick Dark Surface (A12)
- ☐ Sandy Mucky Mineral (S1)
- ☐ 5 cm Mucky Peat or Peat (S3)
- ☐ 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)

Indicators for Problematic Hydric Soils[3]:

- ☐ Coast Prairie Redox (A16)
- ☐ Dark Surface (S7)
- ☐ Iron-Manganese Masses (F12)
- ☐ Very Shallow Dark Surface (TF12)
- ☐ Other (Explain in Remarks)

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

Restrictive Layer (if observed):

Type: _____

Depth (inches): _____

Hydric Soil Present? **No**

Remarks:

HYDROLOGY

Wetland Hydrology Indicators:

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

- ☐ Surface Water (A1)
- ☐ High Water Table (A2)
- ☐ Saturation (A3)
- ☐ Water Marks (B1)
- ☐ Sediment Deposits (B2)
- ☐ Drift Deposits (B3)
- ☐ Algal Mat or Crust (B4)
- ☐ Iron Deposits (B5)
- ☐ Inundation Visible on Aerial Imagery (B7)
- ☐ Sparsely Vegetated Concave Surface (B8)
- ☐ Water-Stained Leaves (B9)
- ☐ Aquatic Fauna (B13)
- ☐ True Aquatic Plants (B14)
- ☐ Hydrogen Sulfide Odor (C1)
- ☐ Oxidized Rhizospheres on Living Roots (C3)
- ☐ Presence of Reduced Iron (C4)
- ☐ Recent Iron Reduction in Tilled Soils (C6)
- ☐ Thin Muck Surface (C7)
- ☐ Gauge or Well Data (D9)
- ☐ Other (Explain in Remarks)

Secondary Indicators (minimum of two is required)

- ☐ Surface Soil Cracks (B6)
- ☐ Drainage Patterns (B10)
- ☐ Dry-Season Water Table (C2)
- ☐ Crayfish Burrows (C8)
- ☐ Saturation Visible on Aerial Imagery (C9)
- ☐ Stunted or Stressed Plants (D1)
- ☐ Geomorphic Position (D2)
- ☐ FAC-Neutral Test (D5)

Field Observations:

Surface Water Present? No Depth (inches): _____

Water Table Present? No Depth (inches): _____

Saturation Present? (includes capillary fringe) No Depth (inches): _____

Wetland Hydrology Present? **No**

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

Remarks:

WETLAND DETERMINATION DATA FORM - Midwest Region

Project/Site: US 30 - Baseline Road (FAP 349) City/County: Kane Sampling Date 10/22/2014

Applicant/Owner: IDOT District 1 State: IL Sampling Point 24A

Investigator(s): Kenney, McIntyre Section, Township, Range: Sec. 32, T38N, R8E

Landform (hillslope, terrace, etc.): Depression Local relief (concave, convex, none): Concave

Slope (%): 0-2 Lat: 41.72823 Long: -88.35285 Datum: NAD 83

Soil Map Unit Name: NRCS mapped as Drummer silty clay loam, 0-2% slopes; revised to Entisol NWI classification: U

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

Are Vegetation No, Soil No, or Hydrology No significantly disturbed? Are "Normal Circumstances" present? Yes

Are Vegetation No, Soil No, or Hydrology No 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	**Is the Sampled Area within a Wetland?** **Yes**
Hydric Soil Present?	Yes	
Wetland Hydrology Present?	Yes	

Remarks: Community type is wet meadow.

VEGETATION - Use scientific names of plants.

Tree Stratum (Plot size: 30 ft radius)	Absolute % Cover	Dominant Species?	Indicator Status
1. *Salix amygdaloides*	8	Yes	FACW
2.			
3.			
4.			
5.			
	8	= Total Cover	
Sapling/Shrub Stratum (Plot size: 15 ft radius)			
1. *Rhamnus cathartica*	2	No	FAC
2.			
3.			
4.			
5.			
	2	= Total Cover	
Herb Stratum (Plot size: 5 ft radius)			
1. *Phalaris arundinacea*	75	Yes	FACW
2. *Solanum dulcamara*	8	No	FAC
3. *Cirsium arvense*	6	No	FACU
4. *Impatiens capensis*	2	No	FACW
5.			
6.			
7.			
8.			
9.			
10.			
	91	= Total Cover	
Woody Vine Stratum (Plot size: 30 ft radius)			
1.			
2.			
	0	= Total Cover	

Dominance Test worksheet:

Number of Dominant Species That are OBL, FACW, or FAC: _____ (A)

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

Percent of Dominant Species That are OBL, FACW, or FAC: _____ (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] 1-Rapid Test for Hydrophytic Vegetation
- [ ] 2-Dominance Test is >50%
- [ ] 3-Prevalence Index is < or =3.0[1]
- [ ] 4-Morphological Adaptations[1] (Provide supporting data in Remarks or on a 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**

Remarks: (Include photo numbers here or on a separate sheet.)

SOIL

Sampling Point: 24A

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 Features %	Type[1]	Loc[2]	Texture	Remarks
0-5	10YR 4/1	85	10YR 5/6	15	C	M	SIL	
5-12	10YR 5/1	80	10YR 5/6	20	C	M	SICL	

[1] Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. [2] Location: PL=Pore Lining, M=Matrix

Hydric Soil Indicators:

- ☐ Histosol (A1)
- ☐ Histic Epipedon (A2)
- ☐ Black Histic (A3)
- ☐ Hydrogen Sulfide (A4)
- ☐ Stratified Layers (A5)
- ☐ 2 cm Muck (A10)
- ☐ Depleted Below Dark Surface (A11)
- ☐ Thick Dark Surface (A12)
- ☐ Sandy Mucky Mineral (S1)
- ☐ 5 cm Mucky Peat or Peat (S3)
- ☐ 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)

Indicators for Problematic Hydric Soils[3]:

- ☐ Coast Prairie Redox (A16)
- ☐ Dark Surface (S7)
- ☐ Iron-Manganese Masses (F12)
- ☐ Very Shallow Dark Surface (TF12)
- ☐ Other (Explain in Remarks)

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

Restrictive Layer (if observed):

Type: _____

Depth (inches): _____

Hydric Soil Present? **Yes**

Remarks:

HYDROLOGY

Wetland Hydrology Indicators:

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

- ☐ Surface Water (A1)
- ☐ High Water Table (A2)
- ☐ Saturation (A3)
- ☐ Water Marks (B1)
- ☐ Sediment Deposits (B2)
- ☐ Drift Deposits (B3)
- ☐ Algal Mat or Crust (B4)
- ☐ Iron Deposits (B5)
- ☐ Inundation Visible on Aerial Imagery (B7)
- ☐ Sparsely Vegetated Concave Surface (B8)
- ☐ Water-Stained Leaves (B9)
- ☐ Aquatic Fauna (B13)
- ☐ True Aquatic Plants (B14)
- ☐ Hydrogen Sulfide Odor (C1)
- ☐ Oxidized Rhizospheres on Living Roots (C3)
- ☐ Presence of Reduced Iron (C4)
- ☐ Recent Iron Reduction in Tilled Soils (C6)
- ☐ Thin Muck Surface (C7)
- ☐ Gauge or Well Data (D9)
- ☐ Other (Explain in Remarks)

Secondary Indicators (minimum of two is required)

- ☐ Surface Soil Cracks (B6)
- ☐ Drainage Patterns (B10)
- ☐ Dry-Season Water Table (C2)
- ☐ Crayfish Burrows (C8)
- ☐ Saturation Visible on Aerial Imagery (C9)
- ☐ Stunted or Stressed Plants (D1)
- ☑ Geomorphic Position (D2)
- ☑ FAC-Neutral Test (D5)

Field Observations:

Surface Water Present? No Depth (inches): _____

Water Table Present? No Depth (inches): _____

Saturation Present? (includes capillary fringe) No Depth (inches): _____

Wetland Hydrology Present? **Yes**

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

Remarks:

WETLAND DETERMINATION DATA FORM - Midwest Region

Project/Site: US 30 - Baseline Road (FAP 349) City/County: Kane Sampling Date 10/22/2014

Applicant/Owner: IDOT District 1 State: IL Sampling Point 24B

Investigator(s): Kenney, McIntyre Section, Township, Range: Sec. 32, T38N, R8E

Landform (hillslope, terrace, etc.): Upland Local relief (concave, convex, none): None

Slope (%): 0 Lat: 41.72820 Long: -88.35294 Datum: NAD 83

Soil Map Unit Name: NRCS mapped as Orthents, loamy, undulating; revised to Mollisol NWI classification: U

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

Are Vegetation No , Soil No , or Hydrology No significantly disturbed? Are "Normal Circumstances" present? Yes

Are Vegetation No , Soil No , or Hydrology No 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	**Is the Sampled Area within a Wetland?**	**No**
Hydric Soil Present?	No		
Wetland Hydrology Present?	No		

Remarks: Community type is mesic floodplain forest.

VEGETATION - Use scientific names of plants.

Tree Stratum (Plot size: 30 ft radius)	Absolute % Cover	Dominant Species?	Indicator Status
1. *Celtis occidentalis*	15	Yes	FAC
2. *Morus alba*	5	Yes	FAC
3. *Juglans nigra*	4	No	FACU
4.			
5.			
	24	= Total Cover	
Sapling/Shrub Stratum (Plot size: 15 ft radius)			
1. *Lonicera maackii*	2	No	UPL
2.			
3.			
4.			
5.			
	2	= Total Cover	
Herb Stratum (Plot size: 5 ft radius)			
1. *Eupatorium rugosum*	60	Yes	FACU
2. *Arctium minus*	12	No	FACU
3. *Geum canadense*	5	No	FAC
4. *Celtis occidentalis*	3	No	FAC
5. *Glechoma hederacea*	3	No	FACU
6.			
7.			
8.			
9.			
10.			
	83	= Total Cover	
Woody Vine Stratum (Plot size: 30 ft radius)			
1.			
2.			
	0	= Total Cover	

Dominance Test worksheet:

Number of Dominant Species That are OBL, FACW, or 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

- ☐ 1-Rapid Test for Hydrophytic Vegetation
- ☑ 2-Dominance Test is >50%
- ☐ 3-Prevalence Index is < or =3.0[1]
- ☐ 4-Morphological Adaptations[1] (Provide supporting data in Remarks or on a 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**

Remarks: (Include photo numbers here or on a separate sheet.)

SOIL

Sampling Point: 24B

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
0-12	10YR 3/1	100					SIL	

[1] Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. [2] Location: PL=Pore Lining, M=Matrix

Hydric Soil Indicators:

- ☐ Histosol (A1)
- ☐ Histic Epipedon (A2)
- ☐ Black Histic (A3)
- ☐ Hydrogen Sulfide (A4)
- ☐ Stratified Layers (A5)
- ☐ 2 cm Muck (A10)
- ☐ Depleted Below Dark Surface (A11)
- ☐ Thick Dark Surface (A12)
- ☐ Sandy Mucky Mineral (S1)
- ☐ 5 cm Mucky Peat or Peat (S3)
- ☐ 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)

Indicators for Problematic Hydric Soils[3]:

- ☐ Coast Prairie Redox (A16)
- ☐ Dark Surface (S7)
- ☐ Iron-Manganese Masses (F12)
- ☐ Very Shallow Dark Surface (TF12)
- ☐ Other (Explain in Remarks)

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

Restrictive Layer (if observed):

Type: _____

Depth (inches): _____

Hydric Soil Present? **No**

Remarks:

HYDROLOGY

Wetland Hydrology Indicators:

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

- ☐ Surface Water (A1)
- ☐ High Water Table (A2)
- ☐ Saturation (A3)
- ☐ Water Marks (B1)
- ☐ Sediment Deposits (B2)
- ☐ Drift Deposits (B3)
- ☐ Algal Mat or Crust (B4)
- ☐ Iron Deposits (B5)
- ☐ Inundation Visible on Aerial Imagery (B7)
- ☐ Sparsely Vegetated Concave Surface (B8)
- ☐ Water-Stained Leaves (B9)
- ☐ Aquatic Fauna (B13)
- ☐ True Aquatic Plants (B14)
- ☐ Hydrogen Sulfide Odor (C1)
- ☐ Oxidized Rhizospheres on Living Roots (C3)
- ☐ Presence of Reduced Iron (C4)
- ☐ Recent Iron Reduction in Tilled Soils (C6)
- ☐ Thin Muck Surface (C7)
- ☐ Gauge or Well Data (D9)
- ☐ Other (Explain in Remarks)

Secondary Indicators (minimum of two is required)

- ☐ Surface Soil Cracks (B6)
- ☐ Drainage Patterns (B10)
- ☐ Dry-Season Water Table (C2)
- ☐ Crayfish Burrows (C8)
- ☐ Saturation Visible on Aerial Imagery (C9)
- ☐ Stunted or Stressed Plants (D1)
- ☐ Geomorphic Position (D2)
- ☐ FAC-Neutral Test (D5)

Field Observations:

Surface Water Present? No Depth (inches): _____

Water Table Present? No Depth (inches): _____

Saturation Present? (includes capillary fringe) No Depth (inches): _____

Wetland Hydrology Present? **No**

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

Remarks:

WETLAND DETERMINATION DATA FORM - Midwest Region

Project/Site: US 30 - Baseline Road (FAP 349) City/County: Kane Sampling Date 10/22/2014

Applicant/Owner: IDOT District 1 State: IL Sampling Point 25A

Investigator(s): Kenney, McIntyre Section, Township, Range: Sec. 32, T38N, R8E

Landform (hillslope, terrace, etc.): Depression Local relief (concave, convex, none): Concave

Slope (%): 0-2 Lat: 41.72652 Long: -88.35147 Datum: NAD 83

Soil Map Unit Name: Drummer silty clay loam, 0-2% slopes NWI classification: U

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

Are Vegetation No , Soil No , or Hydrology No significantly disturbed? Are "Normal Circumstances" present? Yes

Are Vegetation No , Soil No , or Hydrology No 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	**Is the Sampled Area within a Wetland?**	**Yes**
Hydric Soil Present?	Yes		
Wetland Hydrology Present?	Yes		

Remarks: Community type is wet meadow.

VEGETATION - Use scientific names of plants.

Tree Stratum (Plot size: 30 ft radius)	Absolute % Cover	Dominant Species?	Indicator Status
1.			
2.			
3.			
4.			
5.			
		= Total Cover	

Sapling/Shrub Stratum (Plot size: 15 ft radius)			
1.			
2.			
3.			
4.			
5.			
		= Total Cover	

Herb Stratum (Plot size: 5 ft radius)			
1. *Phalaris arundinacea*	100	Yes	FACW
2.			
3.			
4.			
5.			
6.			
7.			
8.			
9.			
10.			
	100	= Total Cover	

Woody Vine Stratum (Plot size: 30 ft radius)			
1.			
2.			
		= Total Cover	

Dominance Test worksheet:

Number of Dominant Species That are OBL, FACW, or FAC: _____ (A)

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

Percent of Dominant Species That are OBL, FACW, or FAC: _____ (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] 1-Rapid Test for Hydrophytic Vegetation
- [ ] 2-Dominance Test is >50%
- [ ] 3-Prevalence Index is < or =3.0[1]
- [ ] 4-Morphological Adaptations[1] (Provide supporting data in Remarks or on a 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**

Remarks: (Include photo numbers here or on a separate sheet.)

SOIL

Sampling Point: 25A

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
0-10	10YR 2/1	100					SIL	
10-17	10YR 2/1	90	10YR 5/6	10	C	M	SIL	
17-26	10YR 5/1	85	10YR 5/6	15	C	M	SICL	

[1] Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. [2] Location: PL=Pore Lining, M=Matrix

Hydric Soil Indicators:

- ☐ Histosol (A1)
- ☐ Histic Epipedon (A2)
- ☐ Black Histic (A3)
- ☐ Hydrogen Sulfide (A4)
- ☐ Stratified Layers (A5)
- ☐ 2 cm Muck (A10)
- ☐ Depleted Below Dark Surface (A11)
- ☑ Thick Dark Surface (A12)
- ☐ Sandy Mucky Mineral (S1)
- ☐ 5 cm Mucky Peat or Peat (S3)
- ☐ 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)

Indicators for Problematic Hydric Soils[3]:

- ☐ Coast Prairie Redox (A16)
- ☐ Dark Surface (S7)
- ☐ Iron-Manganese Masses (F12)
- ☐ Very Shallow Dark Surface (TF12)
- ☐ Other (Explain in Remarks)

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

Restrictive Layer (if observed):

Type: _____

Depth (inches): _____

Hydric Soil Present? **Yes**

Remarks:

HYDROLOGY

Wetland Hydrology Indicators:

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

- ☐ Surface Water (A1)
- ☐ High Water Table (A2)
- ☐ Saturation (A3)
- ☐ Water Marks (B1)
- ☐ Sediment Deposits (B2)
- ☐ Drift Deposits (B3)
- ☐ Algal Mat or Crust (B4)
- ☐ Iron Deposits (B5)
- ☐ Inundation Visible on Aerial Imagery (B7)
- ☐ Sparsely Vegetated Concave Surface (B8)
- ☐ Water-Stained Leaves (B9)
- ☐ Aquatic Fauna (B13)
- ☐ True Aquatic Plants (B14)
- ☐ Hydrogen Sulfide Odor (C1)
- ☐ Oxidized Rhizospheres on Living Roots (C3)
- ☐ Presence of Reduced Iron (C4)
- ☐ Recent Iron Reduction in Tilled Soils (C6)
- ☐ Thin Muck Surface (C7)
- ☐ Gauge or Well Data (D9)
- ☐ Other (Explain in Remarks)

Secondary Indicators (minimum of two is required)

- ☐ Surface Soil Cracks (B6)
- ☐ Drainage Patterns (B10)
- ☐ Dry-Season Water Table (C2)
- ☐ Crayfish Burrows (C8)
- ☐ Saturation Visible on Aerial Imagery (C9)
- ☐ Stunted or Stressed Plants (D1)
- ☑ Geomorphic Position (D2)
- ☑ FAC-Neutral Test (D5)

Field Observations:

Surface Water Present? No Depth (inches): _____

Water Table Present? No Depth (inches): _____

Saturation Present? (includes capillary fringe) No Depth (inches): _____

Wetland Hydrology Present? **Yes**

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

Remarks:

WETLAND DETERMINATION DATA FORM - Midwest Region

Project/Site: US 30 - Baseline Road (FAP 349) City/County: Kane Sampling Date 10/22/2014

Applicant/Owner: IDOT District 1 State: IL Sampling Point 25B

Investigator(s): Kenney, McIntyre Section, Township, Range: Sec. 32, T38N, R8E

Landform (hillslope, terrace, etc.): Upland Local relief (concave, convex, none): Convex

Slope (%): 0-2 Lat: 41.72666 Long: -88.35122 Datum: NAD 83

Soil Map Unit Name: Drummer silty clay loam, 0-2% slopes NWI classification: U

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

Are Vegetation No , Soil No , or Hydrology No significantly disturbed? Are "Normal Circumstances" present? Yes

Are Vegetation No , Soil No , or Hydrology No 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?	No	**Is the Sampled Area within a Wetland?** **No**
Hydric Soil Present?	No	
Wetland Hydrology Present?	No	

Remarks: Community type is forbland.

VEGETATION - Use scientific names of plants.

Tree Stratum (Plot size: 30 ft radius)	Absolute % Cover	Dominant Species?	Indicator Status
1.			
2.			
3.			
4.			
5.			
		= Total Cover	

Sapling/Shrub Stratum (Plot size: 15 ft radius)			
1.			
2.			
3.			
4.			
5.			
		= Total Cover	

Herb Stratum (Plot size: 5 ft radius)			
1. *Poa pratensis*	60	Yes	FAC
2. *Solidago canadensis*	60	Yes	FACU
3. *Coronilla varia*	30	No	UPL
4. *Pastinaca sativa*	6	No	UPL
5. *Cirsium discolor*	1	No	FACU
6.			
7.			
8.			
9.			
10.			
	157	= Total Cover	

Woody Vine Stratum (Plot size: 30 ft radius)			
1.			
2.			
		= Total Cover	

Dominance Test worksheet:

Number of Dominant Species That are OBL, FACW, or 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		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

- ☐ 1-Rapid Test for Hydrophytic Vegetation
- ☐ 2-Dominance Test is >50%
- ☐ 3-Prevalence Index is < or =3.0[1]
- ☐ 4-Morphological Adaptations[1] (Provide supporting data in Remarks or on a 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? **No**

Remarks: (Include photo numbers here or on a separate sheet.)

SOIL

Sampling Point: 25B

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
0-11	10YR 3/1	100					SIL	

[1] Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. [2] Location: PL=Pore Lining, M=Matrix

Hydric Soil Indicators:

- ☐ Histosol (A1)
- ☐ Histic Epipedon (A2)
- ☐ Black Histic (A3)
- ☐ Hydrogen Sulfide (A4)
- ☐ Stratified Layers (A5)
- ☐ 2 cm Muck (A10)
- ☐ Depleted Below Dark Surface (A11)
- ☐ Thick Dark Surface (A12)
- ☐ Sandy Mucky Mineral (S1)
- ☐ 5 cm Mucky Peat or Peat (S3)
- ☐ 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)

Indicators for Problematic Hydric Soils[3]:

- ☐ Coast Prairie Redox (A16)
- ☐ Dark Surface (S7)
- ☐ Iron-Manganese Masses (F12)
- ☐ Very Shallow Dark Surface (TF12)
- ☐ Other (Explain in Remarks)

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

Restrictive Layer (if observed):

Type: _____

Depth (inches): _____

Hydric Soil Present? **No**

Remarks:

HYDROLOGY

Wetland Hydrology Indicators:

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

- ☐ Surface Water (A1)
- ☐ High Water Table (A2)
- ☐ Saturation (A3)
- ☐ Water Marks (B1)
- ☐ Sediment Deposits (B2)
- ☐ Drift Deposits (B3)
- ☐ Algal Mat or Crust (B4)
- ☐ Iron Deposits (B5)
- ☐ Inundation Visible on Aerial Imagery (B7)
- ☐ Sparsely Vegetated Concave Surface (B8)
- ☐ Water-Stained Leaves (B9)
- ☐ Aquatic Fauna (B13)
- ☐ True Aquatic Plants (B14)
- ☐ Hydrogen Sulfide Odor (C1)
- ☐ Oxidized Rhizospheres on Living Roots (C3)
- ☐ Presence of Reduced Iron (C4)
- ☐ Recent Iron Reduction in Tilled Soils (C6)
- ☐ Thin Muck Surface (C7)
- ☐ Gauge or Well Data (D9)
- ☐ Other (Explain in Remarks)

Secondary Indicators (minimum of two is required)

- ☐ Surface Soil Cracks (B6)
- ☐ Drainage Patterns (B10)
- ☐ Dry-Season Water Table (C2)
- ☐ Crayfish Burrows (C8)
- ☐ Saturation Visible on Aerial Imagery (C9)
- ☐ Stunted or Stressed Plants (D1)
- ☐ Geomorphic Position (D2)
- ☐ FAC-Neutral Test (D5)

Field Observations:

Surface Water Present? No Depth (inches): _____

Water Table Present? No Depth (inches): _____

Saturation Present? (includes capillary fringe) No Depth (inches): _____

Wetland Hydrology Present? **No**

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

Remarks:

WETLAND DETERMINATION DATA FORM - Midwest Region

Project/Site: US 30 - Baseline Road (FAP 349) City/County: Kane Sampling Date 10/22/2014

Applicant/Owner: IDOT District 1 State: IL Sampling Point 26A

Investigator(s): Kenney, McIntyre Section, Township, Range: Sec. 32, T38N, R8E

Landform (hillslope, terrace, etc.): Depression Local relief (concave, convex, none): Concave

Slope (%): 0-2 Lat: 41.72649 Long: -88.34924 Datum: NAD 83

Soil Map Unit Name: NRCS mapped as Drummer silty clay loam, 0-2% slopes; revised to Entisol NWI classification: U

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

Are Vegetation No, Soil No, or Hydrology No significantly disturbed? Are "Normal Circumstances" present? Yes

Are Vegetation No, Soil No, or Hydrology No 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	**Is the Sampled Area within a Wetland?**	**Yes**
Hydric Soil Present?	Yes		
Wetland Hydrology Present?	Yes		

Remarks: Community type is wet shrubland.

VEGETATION - Use scientific names of plants.

Tree Stratum (Plot size: 30 ft radius)	Absolute % Cover	Dominant Species?	Indicator Status
1.			
2.			
3.			
4.			
5.			
		= Total Cover	

Sapling/Shrub Stratum (Plot size: 15 ft radius)			
1. *Salix interior*	10	Yes	FACW
2.			
3.			
4.			
5.			
	10	= Total Cover	

Herb Stratum (Plot size: 5 ft radius)			
1. *Phalaris arundinacea*	100	Yes	FACW
2. *Cirsium arvense*	3	No	FACU
3. *Impatiens capensis*	2	No	FACW
4.			
5.			
6.			
7.			
8.			
9.			
10.			
	105	= Total Cover	

Woody Vine Stratum (Plot size: 30 ft radius)			
1.			
2.			
		= Total Cover	

Dominance Test worksheet:

Number of Dominant Species That are OBL, FACW, or FAC: _____ (A)

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

Percent of Dominant Species That are OBL, FACW, or FAC: _____ (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] 1-Rapid Test for Hydrophytic Vegetation
- [ ] 2-Dominance Test is >50%
- [ ] 3-Prevalence Index is < or =3.0[1]
- [ ] 4-Morphological Adaptations[1] (Provide supporting data in Remarks or on a 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**

Remarks: (Include photo numbers here or on a separate sheet.)

SOIL

Sampling Point: 26A

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 Features %	Type[1]	Loc[2]	Texture	Remarks
0-5	10YR 2/1	100					SIL	
5-13	10YR 4/1	90	10YR 5/6	10	C	M	SICL	

[1] Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. [2] Location: PL=Pore Lining, M=Matrix

Hydric Soil Indicators:

- ☐ Histosol (A1)
- ☐ Histic Epipedon (A2)
- ☐ Black Histic (A3)
- ☐ Hydrogen Sulfide (A4)
- ☐ Stratified Layers (A5)
- ☐ 2 cm Muck (A10)
- ☑ Depleted Below Dark Surface (A11)
- ☐ Thick Dark Surface (A12)
- ☐ Sandy Mucky Mineral (S1)
- ☐ 5 cm Mucky Peat or Peat (S3)
- ☐ 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)

Indicators for Problematic Hydric Soils[3]:

- ☐ Coast Prairie Redox (A16)
- ☐ Dark Surface (S7)
- ☐ Iron-Manganese Masses (F12)
- ☐ Very Shallow Dark Surface (TF12)
- ☐ Other (Explain in Remarks)

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

Restrictive Layer (if observed):

Type: _____

Depth (inches): _____

Hydric Soil Present? **Yes**

Remarks:

HYDROLOGY

Wetland Hydrology Indicators:

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

- ☐ Surface Water (A1)
- ☐ High Water Table (A2)
- ☐ Saturation (A3)
- ☐ Water Marks (B1)
- ☐ Sediment Deposits (B2)
- ☐ Drift Deposits (B3)
- ☐ Algal Mat or Crust (B4)
- ☐ Iron Deposits (B5)
- ☐ Inundation Visible on Aerial Imagery (B7)
- ☐ Sparsely Vegetated Concave Surface (B8)
- ☐ Water-Stained Leaves (B9)
- ☐ Aquatic Fauna (B13)
- ☐ True Aquatic Plants (B14)
- ☐ Hydrogen Sulfide Odor (C1)
- ☐ Oxidized Rhizospheres on Living Roots (C3)
- ☐ Presence of Reduced Iron (C4)
- ☐ Recent Iron Reduction in Tilled Soils (C6)
- ☐ Thin Muck Surface (C7)
- ☐ Gauge or Well Data (D9)
- ☐ Other (Explain in Remarks)

Secondary Indicators (minimum of two is required)

- ☐ Surface Soil Cracks (B6)
- ☐ Drainage Patterns (B10)
- ☐ Dry-Season Water Table (C2)
- ☐ Crayfish Burrows (C8)
- ☐ Saturation Visible on Aerial Imagery (C9)
- ☐ Stunted or Stressed Plants (D1)
- ☑ Geomorphic Position (D2)
- ☑ FAC-Neutral Test (D5)

Field Observations:

Surface Water Present? No Depth (inches): _____

Water Table Present? No Depth (inches): _____

Saturation Present? (includes capillary fringe) No Depth (inches): _____

Wetland Hydrology Present? **Yes**

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

Remarks:

WETLAND DETERMINATION DATA FORM - Midwest Region

Project/Site: US 30 - Baseline Road (FAP 349) City/County: Kane Sampling Date 10/22/2014

Applicant/Owner: IDOT District 1 State: IL Sampling Point 26B

Investigator(s): Kenney, McIntyre Section, Township, Range: Sec. 32, T38N, R8E

Landform (hillslope, terrace, etc.): Upland Local relief (concave, convex, none): Convex

Slope (%): 2 Lat: 41.72646 Long: -88.34902 Datum: NAD 83

Soil Map Unit Name: Drummer silty clay loam, 0-2% slopes NWI classification: U

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

Are Vegetation No, Soil No, or Hydrology No significantly disturbed? Are "Normal Circumstances" present? Yes

Are Vegetation No, Soil No, or Hydrology No 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	**Is the Sampled Area within a Wetland?**	**No**
Hydric Soil Present?	No		
Wetland Hydrology Present?	No		

Remarks: Community type is non-native grassland.

VEGETATION - Use scientific names of plants.

Tree Stratum (Plot size: 30 ft radius)	Absolute % Cover	Dominant Species?	Indicator Status
1.			
2.			
3.			
4.			
5.			
		= Total Cover	

Sapling/Shrub Stratum (Plot size: 15 ft radius)			
1.			
2.			
3.			
4.			
5.			
		= Total Cover	

Herb Stratum (Plot size: 5 ft radius)			
1. *Poa pratensis*	95	Yes	FAC
2. *Daucus carota*	15	No	UPL
3. *Festuca elatior*	10	No	FACU
4. *Solidago canadensis*	3	No	FACU
5. *Phalaris arundinacea*	2	No	FACW
6. *Plantago lanceolata*	2	No	FACU
7. *Ulmus pumila*	2	No	UPL
8. *Convolvulus arvensis*	1	No	UPL
9.			
10.			
	130	= Total Cover	

Woody Vine Stratum (Plot size: 30 ft radius)		
1.		
2.		
		= Total Cover

Dominance Test worksheet:

Number of Dominant Species That are OBL, FACW, or 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

- ☐ 1-Rapid Test for Hydrophytic Vegetation
- ☑ 2-Dominance Test is >50%
- ☐ 3-Prevalence Index is < or =3.0[1]
- ☐ 4-Morphological Adaptations[1] (Provide supporting data in Remarks or on a 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**

Remarks: (Include photo numbers here or on a separate sheet.)

SOIL

Sampling Point: 26B

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
0-3	10YR 2/1	100					SIL	
3-13	10YR 3/1	100					SICL	

[1] Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. [2] Location: PL=Pore Lining, M=Matrix

Hydric Soil Indicators:

- ☐ Histosol (A1)
- ☐ Histic Epipedon (A2)
- ☐ Black Histic (A3)
- ☐ Hydrogen Sulfide (A4)
- ☐ Stratified Layers (A5)
- ☐ 2 cm Muck (A10)
- ☐ Depleted Below Dark Surface (A11)
- ☐ Thick Dark Surface (A12)
- ☐ Sandy Mucky Mineral (S1)
- ☐ 5 cm Mucky Peat or Peat (S3)
- ☐ 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)

Indicators for Problematic Hydric Soils[3]:

- ☐ Coast Prairie Redox (A16)
- ☐ Dark Surface (S7)
- ☐ Iron-Manganese Masses (F12)
- ☐ Very Shallow Dark Surface (TF12)
- ☐ Other (Explain in Remarks)

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

Restrictive Layer (if observed):

Type: _____

Depth (inches): _____

Hydric Soil Present? **No**

Remarks:

HYDROLOGY

Wetland Hydrology Indicators:

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

- ☐ Surface Water (A1)
- ☐ High Water Table (A2)
- ☐ Saturation (A3)
- ☐ Water Marks (B1)
- ☐ Sediment Deposits (B2)
- ☐ Drift Deposits (B3)
- ☐ Algal Mat or Crust (B4)
- ☐ Iron Deposits (B5)
- ☐ Inundation Visible on Aerial Imagery (B7)
- ☐ Sparsely Vegetated Concave Surface (B8)
- ☐ Water-Stained Leaves (B9)
- ☐ Aquatic Fauna (B13)
- ☐ True Aquatic Plants (B14)
- ☐ Hydrogen Sulfide Odor (C1)
- ☐ Oxidized Rhizospheres on Living Roots (C3)
- ☐ Presence of Reduced Iron (C4)
- ☐ Recent Iron Reduction in Tilled Soils (C6)
- ☐ Thin Muck Surface (C7)
- ☐ Gauge or Well Data (D9)
- ☐ Other (Explain in Remarks)

Secondary Indicators (minimum of two is required)

- ☐ Surface Soil Cracks (B6)
- ☐ Drainage Patterns (B10)
- ☐ Dry-Season Water Table (C2)
- ☐ Crayfish Burrows (C8)
- ☐ Saturation Visible on Aerial Imagery (C9)
- ☐ Stunted or Stressed Plants (D1)
- ☐ Geomorphic Position (D2)
- ☐ FAC-Neutral Test (D5)

Field Observations:

Surface Water Present? No Depth (inches): _____

Water Table Present? No Depth (inches): _____

Saturation Present? (includes capillary fringe) No Depth (inches): _____

Wetland Hydrology Present? **No**

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

Remarks:

WETLAND DETERMINATION DATA FORM - Midwest Region

Project/Site: US 30 - Baseline Road (FAP 349) City/County: Kane Sampling Date 10/22/2014

Applicant/Owner: IDOT District 1 State: IL Sampling Point 27A

Investigator(s): Kenney, McIntyre Section, Township, Range: Sec. 32, T38N, R8E

Landform (hillslope, terrace, etc.): Depression Local relief (concave, convex, none): Concave

Slope (%): 0-2 Lat: 41.72723 Long: -88.35846 Datum: NAD 83

Soil Map Unit Name: NRCS mapped as Orthents, loamy, undulating; revised to Mollisol NWI classification: PFO1C

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

Are Vegetation No, Soil No, or Hydrology No significantly disturbed? Are "Normal Circumstances" present? Yes

Are Vegetation No, Soil No, or Hydrology No 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	**Is the Sampled Area within a Wetland?**	**Yes**
Hydric Soil Present?	Yes		
Wetland Hydrology Present?	Yes		

Remarks: Community type is wetland pond.

VEGETATION - Use scientific names of plants.

Tree Stratum (Plot size: 30 ft radius)	Absolute % Cover	Dominant Species?	Indicator Status
1. *Rhamnus cathartica*	15	Yes	FAC
2. *Acer saccharinum*	9	Yes	FACW
3.			
4.			
5.			
	24	= Total Cover	
Sapling/Shrub Stratum (Plot size: 15 ft radius)			
1. *Rhamnus cathartica*	5	Yes	FAC
2. *Rhamnus frangula*	5	Yes	FACW
3. *Cornus obliqua*	2	No	FACW
4. *Morus alba*	2	No	FAC
5.			
	14	= Total Cover	
Herb Stratum (Plot size: 5 ft radius)			
1. *Phalaris arundinacea*	40	Yes	FACW
2. *Lysimachia nummularia*	35	Yes	FACW
3. *Lythrum salicaria*	8	No	OBL
4. *Eupatorium serotinum*	3	No	FAC
5. *Alisma subcordatum*	2	No	OBL
6. *Carex sp.*	2	No	-
7. *Cirsium arvense*	2	No	FACU
8. *Phragmites australis*	2	No	FACW
9. *Typha angustifolia*	2	No	OBL
10. *Scutellaria lateriflora*	1	No	OBL
	97	= Total Cover	
Woody Vine Stratum (Plot size: 30 ft radius)			
1.			
2.			
	0	= Total Cover	

Dominance Test worksheet:

Number of Dominant Species That are OBL, FACW, or FAC: 6 (A)

Total Number of Dominant Species Across All Strata: 6 (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

- ☐ 1-Rapid Test for Hydrophytic Vegetation
- ☑ 2-Dominance Test is >50%
- ☐ 3-Prevalence Index is < or =3.0[1]
- ☐ 4-Morphological Adaptations[1] (Provide supporting data in Remarks or on a 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**

Remarks: (Include photo numbers here or on a separate sheet.)

SOIL

Sampling Point: 27A

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 Features %	Type[1]	Loc[2]	Texture	Remarks
0-4	10YR 2/1	100					L	
4-10	10YR 3/1	90	7.5YR 4/6	10	C	M	COSL	

[1] Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. [2] Location: PL=Pore Lining, M=Matrix

Hydric Soil Indicators:

- ☐ Histosol (A1)
- ☐ Histic Epipedon (A2)
- ☐ Black Histic (A3)
- ☐ Hydrogen Sulfide (A4)
- ☐ Stratified Layers (A5)
- ☐ 2 cm Muck (A10)
- ☐ Depleted Below Dark Surface (A11)
- ☐ Thick Dark Surface (A12)
- ☐ Sandy Mucky Mineral (S1)
- ☐ 5 cm Mucky Peat or Peat (S3)
- ☐ 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)

Indicators for Problematic Hydric Soils[3]:

- ☐ Coast Prairie Redox (A16)
- ☐ Dark Surface (S7)
- ☐ Iron-Manganese Masses (F12)
- ☐ Very Shallow Dark Surface (TF12)
- ☐ Other (Explain in Remarks)

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

Restrictive Layer (if observed):

Type: _____

Depth (inches): _____

Hydric Soil Present? **Yes**

Remarks:

HYDROLOGY

Wetland Hydrology Indicators:

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

- ☑ Surface Water (A1)
- ☑ High Water Table (A2)
- ☑ Saturation (A3)
- ☐ Water Marks (B1)
- ☐ Sediment Deposits (B2)
- ☐ Drift Deposits (B3)
- ☐ Algal Mat or Crust (B4)
- ☐ Iron Deposits (B5)
- ☐ Inundation Visible on Aerial Imagery (B7)
- ☐ Sparsely Vegetated Concave Surface (B8)
- ☐ Water-Stained Leaves (B9)
- ☐ Aquatic Fauna (B13)
- ☐ True Aquatic Plants (B14)
- ☐ Hydrogen Sulfide Odor (C1)
- ☐ Oxidized Rhizospheres on Living Roots (C3)
- ☐ Presence of Reduced Iron (C4)
- ☐ Recent Iron Reduction in Tilled Soils (C6)
- ☐ Thin Muck Surface (C7)
- ☐ Gauge or Well Data (D9)
- ☐ Other (Explain in Remarks)

Secondary Indicators (minimum of two is required)

- ☐ Surface Soil Cracks (B6)
- ☐ Drainage Patterns (B10)
- ☐ Dry-Season Water Table (C2)
- ☐ Crayfish Burrows (C8)
- ☑ Saturation Visible on Aerial Imagery (C9)
- ☐ Stunted or Stressed Plants (D1)
- ☑ Geomorphic Position (D2)
- ☑ FAC-Neutral Test (D5)

Field Observations:

Surface Water Present? Yes Depth (inches): >24

Water Table Present? Yes Depth (inches): 0

Saturation Present? (includes capillary fringe) Yes Depth (inches): 0

Wetland Hydrology Present? **Yes**

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

Remarks:

WETLAND DETERMINATION DATA FORM - Midwest Region

Project/Site: US 30 - Baseline Road (FAP 349) City/County: Kane Sampling Date 10/22/2014

Applicant/Owner: IDOT District 1 State: IL Sampling Point 27B

Investigator(s): Kenney, McIntyre Section, Township, Range: Sec. 32, T38N, R8E

Landform (hillslope, terrace, etc.): Upland Local relief (concave, convex, none): None

Slope (%): 0 Lat: 41.72718 Long: -88.35834 Datum: NAD 83

Soil Map Unit Name: NRCS mapped as Orthents, loamy, undulating; revised to Aquents NWI classification: PFO1C

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

Are Vegetation No , Soil No , or Hydrology No significantly disturbed? Are "Normal Circumstances" present? Yes

Are Vegetation No , Soil No , or Hydrology No 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?	No	**Is the Sampled Area within a Wetland?** **No**
Hydric Soil Present?	Yes	
Wetland Hydrology Present?	No	

Remarks: Community type is mesic floodplain forest.

VEGETATION - Use scientific names of plants.

Tree Stratum (Plot size: 30 ft radius)	Absolute % Cover	Dominant Species?	Indicator Status
1. *Rhamnus cathartica*	80	Yes	FAC
2. *Populus deltoides*	5	No	FAC
3. *Acer saccharinum*	3	No	FACW
4.			
5.			
	88	= Total Cover	

Sapling/Shrub Stratum (Plot size: 15 ft radius)			
1. *Lonicera maackii*	3	Yes	UPL
2. *Rhamnus cathartica*	3	Yes	FAC
3.			
4.			
5.			
	6	= Total Cover	

Herb Stratum (Plot size: 5 ft radius)			
1. *Lonicera maackii*	5	Yes	UPL
2. *Viburnum opulus*	1	No	FAC
3.			
4.			
5.			
6.			
7.			
8.			
9.			
10.			
	6	= Total Cover	

Woody Vine Stratum (Plot size: 30 ft radius)			
1.			
2.			
	0	= Total Cover	

Dominance Test worksheet:

Number of Dominant Species That are OBL, FACW, or 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		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

- ☐ 1-Rapid Test for Hydrophytic Vegetation
- ☐ 2-Dominance Test is >50%
- ☐ 3-Prevalence Index is < or =3.0[1]
- ☐ 4-Morphological Adaptations[1] (Provide supporting data in Remarks or on a 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? **No**

Remarks: (Include photo numbers here or on a separate sheet.)

SOIL

Sampling Point: 27B

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
0-6	10YR 4/1	100					SIL	
6-13	10YR 4/2	95	7.5YR 5/6	5	C	M	SICL	

[1] Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. [2] Location: PL=Pore Lining, M=Matrix

Hydric Soil Indicators:

- ☐ Histosol (A1)
- ☐ Histic Epipedon (A2)
- ☐ Black Histic (A3)
- ☐ Hydrogen Sulfide (A4)
- ☐ Stratified Layers (A5)
- ☐ 2 cm Muck (A10)
- ☐ Depleted Below Dark Surface (A11)
- ☐ Thick Dark Surface (A12)
- ☐ Sandy Mucky Mineral (S1)
- ☐ 5 cm Mucky Peat or Peat (S3)
- ☐ 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)

Indicators for Problematic Hydric Soils[3]:

- ☐ Coast Prairie Redox (A16)
- ☐ Dark Surface (S7)
- ☐ Iron-Manganese Masses (F12)
- ☐ Very Shallow Dark Surface (TF12)
- ☐ Other (Explain in Remarks)

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

Restrictive Layer (if observed):

Type: _____

Depth (inches): _____

Hydric Soil Present? **Yes**

Remarks:

HYDROLOGY

Wetland Hydrology Indicators:

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

- ☐ Surface Water (A1)
- ☐ High Water Table (A2)
- ☐ Saturation (A3)
- ☐ Water Marks (B1)
- ☐ Sediment Deposits (B2)
- ☐ Drift Deposits (B3)
- ☐ Algal Mat or Crust (B4)
- ☐ Iron Deposits (B5)
- ☐ Inundation Visible on Aerial Imagery (B7)
- ☐ Sparsely Vegetated Concave Surface (B8)
- ☐ Water-Stained Leaves (B9)
- ☐ Aquatic Fauna (B13)
- ☐ True Aquatic Plants (B14)
- ☐ Hydrogen Sulfide Odor (C1)
- ☐ Oxidized Rhizospheres on Living Roots (C3)
- ☐ Presence of Reduced Iron (C4)
- ☐ Recent Iron Reduction in Tilled Soils (C6)
- ☐ Thin Muck Surface (C7)
- ☐ Gauge or Well Data (D9)
- ☐ Other (Explain in Remarks)

Secondary Indicators (minimum of two is required)

- ☐ Surface Soil Cracks (B6)
- ☐ Drainage Patterns (B10)
- ☐ Dry-Season Water Table (C2)
- ☐ Crayfish Burrows (C8)
- ☐ Saturation Visible on Aerial Imagery (C9)
- ☐ Stunted or Stressed Plants (D1)
- ☐ Geomorphic Position (D2)
- ☐ FAC-Neutral Test (D5)

Field Observations:

Surface Water Present? No Depth (inches): _____

Water Table Present? No Depth (inches): _____

Saturation Present? (includes capillary fringe) No Depth (inches): _____

Wetland Hydrology Present? **No**

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

Remarks:

WETLAND DETERMINATION DATA FORM - Midwest Region

Project/Site: US 30 - Baseline Road (FAP 349) City/County: Kane Sampling Date 10/23/2014

Applicant/Owner: IDOT District 1 State: IL Sampling Point 28A

Investigator(s): Kenney, McIntyre Section, Township, Range: Sec. 31, T38N, R8E

Landform (hillslope, terrace, etc.): Upland Local relief (concave, convex, none): None

Slope (%): 0 Lat: 41.72756 Long: -88.36238 Datum: NAD 83

Soil Map Unit Name: NRCS mapped as Orthents, loamy, undulating; revised to Mollisol NWI classification: PSS1C

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

Are Vegetation No , Soil No , or Hydrology No significantly disturbed? Are "Normal Circumstances" present? Yes

Are Vegetation No , Soil No , or Hydrology No 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	**Is the Sampled Area within a Wetland?**	**No**
Hydric Soil Present?	No		
Wetland Hydrology Present?	No		

Remarks: Community type is mesic floodplain forest.

VEGETATION - Use scientific names of plants.

Tree Stratum (Plot size: 30 ft radius)	Absolute % Cover	Dominant Species?	Indicator Status
1. *Rhamnus cathartica*	50	Yes	FAC
2. *Celtis occidentalis*	12	No	FAC
3. *Morus alba*	4	No	FAC
4.			
5.			
	66	= Total Cover	
Sapling/Shrub Stratum (Plot size: 15 ft radius)			
1. *Rhamnus cathartica*	6	Yes	FAC
2. *Lonicera maackii*	1	No	UPL
3. *Rubus occidentalis*	1	No	UPL
4.			
5.			
	8	= Total Cover	
Herb Stratum (Plot size: 5 ft radius)			
1. *Glechoma hederacea*	20	Yes	FACU
2. *Alliaria petiolata*	10	Yes	FAC
3. *Arctium minus*	6	No	FACU
4. *Eupatorium rugosum*	6	No	FACU
5. *Lonicera maackii*	4	No	UPL
6. *Acer negundo*	3	No	FAC
7. *Rhamnus cathartica*	3	No	FAC
8. *Rubus occidentalis*	3	No	UPL
9.			
10.			
	55	= Total Cover	
Woody Vine Stratum (Plot size: 30 ft radius)			
1. *Vitis riparia*	1	No	FACW
2.			
	1	= Total Cover	

Dominance Test worksheet:

Number of Dominant Species That are OBL, FACW, or FAC: 3 (A)

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

Percent of Dominant Species That are OBL, FACW, or FAC: 75% (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

- ☐ 1-Rapid Test for Hydrophytic Vegetation
- ☑ 2-Dominance Test is >50%
- ☐ 3-Prevalence Index is < or =3.0[1]
- ☐ 4-Morphological Adaptations[1] (Provide supporting data in Remarks or on a 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**

Remarks: (Include photo numbers here or on a separate sheet.)

SOIL

Sampling Point: 28A

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
0-10	10YR 3/1	100					SIL	

[1] Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. [2] Location: PL=Pore Lining, M=Matrix

Hydric Soil Indicators:

- ☐ Histosol (A1)
- ☐ Histic Epipedon (A2)
- ☐ Black Histic (A3)
- ☐ Hydrogen Sulfide (A4)
- ☐ Stratified Layers (A5)
- ☐ 2 cm Muck (A10)
- ☐ Depleted Below Dark Surface (A11)
- ☐ Thick Dark Surface (A12)
- ☐ Sandy Mucky Mineral (S1)
- ☐ 5 cm Mucky Peat or Peat (S3)
- ☐ 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)

Indicators for Problematic Hydric Soils[3]:

- ☐ Coast Prairie Redox (A16)
- ☐ Dark Surface (S7)
- ☐ Iron-Manganese Masses (F12)
- ☐ Very Shallow Dark Surface (TF12)
- ☐ Other (Explain in Remarks)

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

Restrictive Layer (if observed):

Type: _____

Depth (inches): _____

Hydric Soil Present? **No**

Remarks:

HYDROLOGY

Wetland Hydrology Indicators:

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

- ☐ Surface Water (A1)
- ☐ High Water Table (A2)
- ☐ Saturation (A3)
- ☐ Water Marks (B1)
- ☐ Sediment Deposits (B2)
- ☐ Drift Deposits (B3)
- ☐ Algal Mat or Crust (B4)
- ☐ Iron Deposits (B5)
- ☐ Inundation Visible on Aerial Imagery (B7)
- ☐ Sparsely Vegetated Concave Surface (B8)
- ☐ Water-Stained Leaves (B9)
- ☐ Aquatic Fauna (B13)
- ☐ True Aquatic Plants (B14)
- ☐ Hydrogen Sulfide Odor (C1)
- ☐ Oxidized Rhizospheres on Living Roots (C3)
- ☐ Presence of Reduced Iron (C4)
- ☐ Recent Iron Reduction in Tilled Soils (C6)
- ☐ Thin Muck Surface (C7)
- ☐ Gauge or Well Data (D9)
- ☐ Other (Explain in Remarks)

Secondary Indicators (minimum of two is required)

- ☐ Surface Soil Cracks (B6)
- ☐ Drainage Patterns (B10)
- ☐ Dry-Season Water Table (C2)
- ☐ Crayfish Burrows (C8)
- ☐ Saturation Visible on Aerial Imagery (C9)
- ☐ Stunted or Stressed Plants (D1)
- ☐ Geomorphic Position (D2)
- ☐ FAC-Neutral Test (D5)

Field Observations:

Surface Water Present? No Depth (inches): _____

Water Table Present? No Depth (inches): _____

Saturation Present? (includes capillary fringe) No Depth (inches): _____

Wetland Hydrology Present? **No**

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

Remarks:

APPENDIX B

Wetland Plant Species Lists

Project Title: US 30 - Baseline Road (FAP 349) **Sequence No: 17659A**
Site 6 - Wet meadow

Scientific Name	Common Name	Strata	Wetland Indicator Status	Coefficient of Conservatism
Phalaris arundinacea*	**reed canary grass**	**H**	**FACW**	**-**
Acer negundo	box elder	ST	FAC	0
Acer saccharinum	silver maple	HST	FACW	0
*Agrostis alba**	red top	H	FACW	-
Alisma subcordatum	common water plantain	H	OBL	4
Ambrosia artemisiifolia var. elatior	common ragweed	H	FACU	0
Andropogon gerardii	big bluestem	H	FAC	5
Angelica atropurpurea	angelica	H	OBL	7
Apocynum cannabinum	dogbane	H	FAC	4
Asclepias syriaca	common milkweed	H	FACU	0
Aster novae-angliae	New England aster	H	FACW	4
Aster simplex	panicled aster	H	FAC	3
Bidens frondosa	common beggar's ticks	H	FACW	1
Boehmeria cylindrica	false nettle	H	OBL	2
Boltonia latisquama var. recognita	false aster	H	OBL	9
Carex frankii	bristly cattail sedge	H	OBL	8
Carex tribuloides	awl-fruited oval sedge	H	OBL	3
Carex vulpinoidea	brown fox sedge	H	FACW	2
Cassia fasciculata	golden cassia	H	FACU	5
Celtis occidentalis	hackberry	HS	FAC	3
Cephalanthus occidentalis	buttonbush	S	OBL	5
*Cirsium arvense**	field thistle	H	FACU	-
Convolvulus sepium	American bindweed	H	FAC	1
Cornus obliqua	pale dogwood	HS	FACW	6
*Daucus carota**	Queen Anne's lace	H	UPL	-
Echinochloa crusgalli	barnyard grass	H	FACW	0
Geum canadense	white avens	H	FAC	1
*Glechoma hederacea**	ground ivy	H	FACU	-
*Hordeum jubatum**	squirrel-tail grass	H	FAC	-
*Iris pseudacorus**	tall yellow iris	H	OBL	-
Juncus dudleyi	Dudley's rush	H	FACW	4
Juncus effusus	common rush	H	OBL	7
Juncus torreyi	Torrey's rush	H	FACW	4
Leersia oryzoides	rice cut grass	H	OBL	4
Lemna minor	small duckweed	H	OBL	5
*Lythrum salicaria**	purple loosestrife	H	OBL	-
*Morus alba**	white mulberry	T	FAC	-
Oenothera biennis	common evening primrose	H	FACU	0
Panicum virgatum	prairie switch grass	H	FAC	5
Parthenocissus quinquefolia	Virginia creeper	HW	FACU	2
Phragmites australis	common reed	H	FACW	1
Pilea pumila	Canada clearweed	H	FACW	5
Plantago rugelii	red-stalked plantain	H	FAC	0
*Poa pratensis**	Kentucky blue grass	H	FAC	-
Polygonum coccineum	scarlet smartweed	H	OBL	4
Polygonum punctatum	smartweed	H	OBL	6

Species list continued on next page.

Site 6 - Wet meadow (cont'd)

Scientific Name	Common Name	Strata	Wetland Indicator Status	Coefficient of Conservatism
Pycnanthemum tenuifolium	slender mountain mint	H	FAC	7
Ratibida pinnata	yellow coneflower	H	UPL	4
*Rhamnus cathartica**	common buckthorn	HS	FAC	-
*Rosa multiflora**	Japanese rose	S	FACU	-
Rudbeckia laciniata	wild golden glow	H	FACW	5
Rudbeckia subtomentosa	sweet black-eyed Susan	H	FACU	9
*Rumex crispus**	curly dock	H	FAC	-
Salix interior	sandbar willow	S	FACW	1
Salix nigra	black willow	T	OBL	4
Sambucus canadensis	common elder	S	FACW	1
Scirpus atrovirens	dark green rush	H	OBL	4
Scirpus cyperinus	wool grass	H	OBL	6
*Setaria glauca**	pigeon grass	H	FAC	-
Silphium laciniatum	compass plant	H	UPL	5
Solidago gigantea	late goldenrod	H	FACW	4
Solidago graminifolia	grass-leaved goldenrod	H	FACW	4
*Sonchus arvensis**	field sow thistle	H	FACU	-
Sorghastrum nutans	Indian grass	H	FACU	5
Teucrium canadense	germander	H	FACW	3
Typha angustifolia	narrow-leaved cattail	H	OBL	1
Typha latifolia	broad-leaved cattail	H	OBL	1
Ulmus americana	American elm	HS	FACW	3
*Ulmus pumila**	Siberian elm	S	UPL	-
Urtica procera	stinging nettle	H	FACW	2
Verbena hastata	blue vervain	H	FACW	4
Viola sororia	common blue violet	H	FACW	3
Vitis riparia	riverbank grape	HW	FACW	2

*Non-native species **Bolded species is dominant in the denoted stratum** Mean C = 3.5

H = Herb, T = Tree, S = Sapling/Shrub, W = Woody Vine FQI = 26.2

Site 11 - Forested wetland

Scientific Name	Common Name	Strata	Wetland Indicator Status	Coefficient of Conservatism
Acer negundo	**box elder**	HS**T**	**FAC**	**0**
Epilobium coloratum	**cinnamon willow herb**	**H**	**OBL**	**3**
Impatiens capensis	**spotted touch-me-not**	**H**	**FACW**	**3**
Lythrum salicaria*	**purple loosestrife**	**H**	**OBL**	**-**
Populus deltoides	**eastern cottonwood**	HS**T**	**FAC**	**2**
Rhamnus cathartica*	**common buckthorn**	H**S**T	**FAC**	**-**
Rhamnus frangula*	**glossy buckthorn**	**HST**	**FACW**	**-**
Sambucus canadensis	**common elder**	H**S**	**FACW**	**1**
Acer saccharinum	silver maple	T	FACW	0
*Agrostis alba**	red top	H	FACW	-
Alisma subcordatum	common water plantain	H	OBL	4
*Alliaria petiolata**	garlic mustard	H	FAC	-
*Arctium minus**	common burdock	H	FACU	-
Aster lateriflorus	side-flowering aster	H	FACW	4
Aster simplex	panicled aster	H	FAC	3
Bidens comosa	swamp tickseed	H	OBL	5
Bidens connata	purple-stemmed tickseed	H	OBL	5
Boehmeria cylindrica	false nettle	H	OBL	2
Carex lurida	bottlebrush sedge	H	OBL	8
Carex normalis	spreading oval sedge	H	FACW	5
Carex sp.	sedge	H	-	-
Carex spp.	a second unidentified sedge	H	-	-
Carex tribuloides	awl-fruited oval sedge	H	OBL	3
Carex vulpinoidea	brown fox sedge	H	FACW	2
Celtis occidentalis	hackberry	H	FAC	3
Circaea lutetiana var. canadensis	enchanter's nightshade	H	FACU	1
*Cirsium arvense**	field thistle	H	FACU	-
*Cirsium vulgare**	bull thistle	H	FACU	-
Cornus obliqua	pale dogwood	HS	FACW	6
*Daucus carota**	Queen Anne's lace	H	UPL	-
*Dipsacus sylvestris**	common teasel	H	FACU	-
*Duchesnea indica**	Indian strawberry	H	FACU	-
*Elaeagnus umbellata**	autumn olive	S	UPL	-
Erigeron annuus	annual fleabane	H	FACU	0
Erigeron canadensis	horseweed	H	FACU	0
Erigeron philadelphicus	marsh fleabane	H	FACW	4
Eupatorium perfoliatum	common boneset	H	OBL	4
Eupatorium serotinum	late boneset	H	FAC	0
Fraxinus pennsylvanica var. subintegerrima	green ash	HST	FACW	1
Geum canadense	white avens	H	FAC	1
Geum laciniatum	rough avens	H	FACW	5
*Glechoma hederacea**	ground ivy	H	FACU	-
Hackelia virginiana	stickseed	H	FACU	0
Juncus torreyi	Torrey's rush	H	FACW	4
Juniperus virginiana var. crebra	eastern red cedar	H	FACU	2
Leersia oryzoides	rice cut grass	H	OBL	4

Species list continued on next page.

Site 11 - Forested wetland (cont'd)

Scientific Name	Common Name	Strata	Wetland Indicator Status	Coefficient of Conservatism
Lemna minor	small duckweed	H	OBL	5
*Ligustrum vulgare**	common privet	H	FACU	-
*Lonicera maackii**	Amur honeysuckle	HS	UPL	-
*Lonicera morrowii**	Morrow's honeysuckle	HS	FACU	-
Lycopus americanus	common water horehound	H	OBL	5
*Lysimachia nummularia**	moneywort	H	FACW	-
*Morus alba**	white mulberry	T	FAC	-
Osmorhiza longistylis	anise root	H	FACU	3
Parthenocissus quinquefolia	Virginia creeper	HW	FACU	2
*Phalaris arundinacea**	reed canary grass	H	FACW	-
Phragmites australis	common reed	H	FACW	1
Phytolacca americana	pokeweed	H	FACU	1
Pilea pumila	Canada clearweed	H	FACW	5
*Poa pratensis**	Kentucky blue grass	H	FAC	-
Polygonum punctatum	smartweed	H	OBL	6
Prunella vulgaris var. lanceolata	self-heal	H	FAC	0
Prunus serotina	wild black cherry	T	FACU	1
Ranunculus sceleratus	cursed crowfoot	H	OBL	6
*Rhamnus frangula**	glossy buckthorn	S	FACW	-
*Rumex crispus**	curly dock	H	FAC	-
Salix amygdaloides	peach-leaved willow	ST	FACW	5
Salix discolor	pussy willow	S	FACW	2
Salix interior	sandbar willow	HS	FACW	1
Salix nigra	black willow	T	OBL	4
Scirpus atrovirens	dark green rush	H	OBL	4
Scirpus validus var. creber	soft-stem bulrush	H	OBL	5
Scutellaria lateriflora	mad-dog skullcap	H	OBL	5
*Solanum dulcamara**	bittersweet nightshade	HW	FAC	-
Solidago canadensis	Canada goldenrod	H	FACU	1
Solidago gigantea	late goldenrod	H	FACW	4
*Taraxacum officinale**	common dandelion	H	FACU	-
Typha angustifolia	narrow-leaved cattail	H	OBL	1
Typha latifolia	broad-leaved cattail	H	OBL	1
Typha x glauca	hybrid cattail	H	OBL	1
Ulmus americana	American elm	H	FACW	3
Verbena urticifolia	white vervain	H	FAC	5
*Viburnum opulus**	European high-bush cranberry	HS	FAC	-
Vitis riparia	riverbank grape	HW	FACW	2

*Non-native species **Bolded species is dominant in the denoted stratum** Mean C = 2.9

H = Herb, T = Tree, S = Sapling/Shrub, W = Woody Vine FQI = 21.7

Site 14 - Wet meadow

Scientific Name	Common Name	Strata	Wetland Indicator Status	Coefficient of Conservatism
Echinochloa crusgalli	**barnyard grass**	**H**	**FACW**	**0**
Panicum dichotomiflorum	**fall panicum**	**H**	**FACW**	**0**
Phragmites australis	**common reed**	**H**	**FACW**	**1**
*Agrostis alba**	red top	H	FACW	-
Ambrosia artemisiifolia var. elatior	common ragweed	H	FACU	0
*Arctium minus**	common burdock	H	FACU	-
Bidens frondosa	common beggar's ticks	H	FACW	1
*Eclipta prostrata**	yerba de tajo	H	FACW	-
*Glechoma hederacea**	ground ivy	H	FACU	-
Leersia oryzoides	rice cut grass	H	OBL	4
*Lythrum salicaria**	purple loosestrife	H	OBL	-
*Morus alba**	white mulberry	H	FAC	-
*Phalaris arundinacea**	reed canary grass	H	FACW	-
Plantago rugelii	red-stalked plantain	H	FAC	0
*Polygonum aviculare**	common knotweed	H	FAC	-
Polygonum hydropiper	water pepper	H	OBL	2
*Polygonum persicaria**	lady's thumb	H	FACW	-
Populus deltoides	eastern cottonwood	H	FAC	2
Prunella vulgaris var. lanceolata	self-heal	H	FAC	0
Rorippa palustris var. fernaldiana	marsh yellow cress	H	OBL	4
*Rumex crispus**	curly dock	H	FAC	-
Salix interior	sandbar willow	H	FACW	1
*Setaria faberi**	giant foxtail	H	FACU	-
Typha angustifolia	narrow-leaved cattail	H	OBL	1
Verbena hastata	blue vervain	H	FACW	4

*Non-native species **Bolded species is dominant in the denoted stratum** Mean C = 1.4
H = Herb, T = Tree, S = Sapling/Shrub, W = Woody Vine FQI = 5.3

Site 15 - Wetland pond

Scientific Name	Common Name	Strata	Wetland Indicator Status	Coefficient of Conservatism
Lemna minor	**small duckweed**	**H**	**OBL**	**5**
Wolffia columbiana	**water meal**	**H**	**OBL**	**7**
Acer saccharinum	silver maple	ST	FACW	0
Cornus obliqua	pale dogwood	S	FACW	6
*Phalaris arundinacea**	reed canary grass	H	FACW	-

*Non-native species **Bolded species is dominant in the denoted stratum** Mean C = 4.5
H = Herb, T = Tree, S = Sapling/Shrub, W = Woody Vine FQI = 9.0

Site 18 - Wet meadow

Scientific Name	Common Name	Strata	Wetland Indicator Status	Coefficient of Conservatism
Agrostis alba*	**red top**	**H**	**FACW**	**-**
Echinochloa crusgalli	**barnyard grass**	**H**	**FACW**	**0**
Ambrosia artemisiifolia var. elatior	common ragweed	H	FACU	0
Ambrosia trifida	giant ragweed	H	FAC	0
Ammannia robusta	scarlet loosestrife	H	OBL	4
*Arctium minus**	common burdock	H	FACU	-
Asclepias incarnata	swamp milkweed	H	OBL	4
Aster novae-angliae	New England aster	H	FACW	4
Aster pilosus	hairy aster	H	FACU	0
Aster simplex	panicled aster	H	FAC	3
Carex vulpinoidea	brown fox sedge	H	FACW	2
*Cirsium arvense**	field thistle	H	FACU	-
Cyperus esculentus	field nut sedge	H	FACW	0
*Diplachne acuminata**	salt meadow grass	H	OBL	-
Erigeron canadensis	horseweed	H	FACU	0
Helenium autumnale	sneezeweed	H	FACW	5
Lythrum alatum	winged loosestrife	H	OBL	7
Panicum virgatum	prairie switch grass	H	FAC	5
*Phalaris arundinacea**	reed canary grass	H	FACW	-
Physalis subglabrata	smooth ground cherry	H	UPL	0
*Polygonum aviculare**	common knotweed	H	FAC	-
Polygonum pensylvanicum	pinkweed	H	FACW	0
Rudbeckia hirta	black-eyed Susan	H	FACU	1
*Rumex crispus**	curly dock	H	FAC	-
*Scirpus paludosus**	alkali bulrush	H	OBL	-
Scirpus validus var. creber	soft-stem bulrush	H	OBL	5
*Trifolium hybridum**	alsike clover	H	FACU	-
Verbena hastata	blue vervain	H	FACW	4
Vernonia fasciculata	common ironweed	H	FACW	5

*Non-native species **Bolded species is dominant in the denoted stratum** Mean C = 2.5

H = Herb, T = Tree, S = Sapling/Shrub, W = Woody Vine FQI = 11.0

Site 19 - Wet meadow

Scientific Name	Common Name	Strata	Wetland Indicator Status	Coefficient of Conservatism
Cyperus esculentus	**field nut sedge**	**H**	**FACW**	**0**
Lythrum salicaria*	**purple loosestrife**	**H**	**OBL**	**-**
Polygonum hydropiper	**water pepper**	**H**	**OBL**	**2**
Spartina pectinata	**prairie cord grass**	**H**	**FACW**	**4**
Acer negundo	box elder	S	FAC	0
Alisma subcordatum	common water plantain	H	OBL	4
Asclepias incarnata	swamp milkweed	H	OBL	4
Aster novae-angliae	New England aster	H	FACW	4
*Barbarea vulgaris**	winter cress	H	FAC	-
Carex vulpinoidea	brown fox sedge	H	FACW	2
Eleocharis erythropoda	red-rooted spike rush	H	OBL	2
Helenium autumnale	sneezeweed	H	FACW	5
*Hordeum jubatum**	squirrel-tail grass	H	FAC	-
Iris virginica var. shrevei	southern blue flag	H	OBL	5
Oenothera biennis	common evening primrose	H	FACU	0
Panicum virgatum	prairie switch grass	H	FAC	5
*Plantago lanceolata**	English plantain	H	FACU	-
Polygonum pensylvanicum	pinkweed	H	FACW	0
Populus deltoides	eastern cottonwood	H	FAC	2
*Rumex crispus**	curly dock	H	FAC	-
Scirpus cyperinus	wool grass	H	OBL	6
*Setaria glauca**	pigeon grass	H	FAC	-
Sparganium eurycarpum	common bur reed	H	OBL	6
Typha angustifolia	narrow-leaved cattail	H	OBL	1

*Non-native species **Bolded species is dominant in the denoted stratum** Mean C = 2.9

H = Herb, T = Tree, S = Sapling/Shrub, W = Woody Vine FQI = 12.3

Site 20 - Wet meadow

Scientific Name	Common Name	Strata	Wetland Indicator Status	Coefficient of Conservatism
Phalaris arundinacea*	**reed canary grass**	**H**	**FACW**	**-**
Polygonum coccineum	**scarlet smartweed**	**H**	**OBL**	**4**
Typha angustifolia	**narrow-leaved cattail**	**H**	**OBL**	**1**
Acer saccharinum	silver maple	S	FACW	0
*Agrostis alba**	red top	H	FACW	-
Alisma subcordatum	common water plantain	H	OBL	4
Ammannia robusta	long-leaved ammannia	H	OBL	4
Apocynum cannabinum	dogbane	H	FAC	4
Aster simplex	panicled aster	H	FAC	3
Carex sp.	sedge	H	-	-
Carex tribuloides	awl-fruited oval sedge	H	OBL	3
*Cirsium arvense**	field thistle	H	FACU	-
Cornus obliqua	pale dogwood	S	FACW	6
Cyperus esculentus	field nut sedge	H	FACW	0
Echinochloa crusgalli	barnyard grass	H	FACW	0
Eleocharis acicularis	needle spike rush	H	OBL	2
Eleocharis erythropoda	red-rooted spike rush	H	OBL	2
Eleocharis obtusa	blunt spike rush	H	OBL	3
Eupatorium serotinum	late boneset	H	FAC	0
Fraxinus pennsylvanica var. subintegerrima	green ash	S	FACW	1
*Hibiscus trionum**	flower-of-an-hour	H	UPL	-
Lemna minor	small duckweed	H	OBL	5
Lindernia dubia	false pimpernel	H	OBL	5
Panicum dichotomiflorum	fall panicum	H	FACW	0
*Poa pratensis**	Kentucky blue grass	H	FAC	-
Polygonum hydropiper	water pepper	H	OBL	2
Polygonum pensylvanicum	pinkweed	H	FACW	0
*Polygonum persicaria**	lady's thumb	H	FACW	-
Populus deltoides	eastern cottonwood	T	FAC	2
*Rhamnus cathartica**	common buckthorn	S	FAC	-
Rorippa palustris var. fernaldiana	marsh yellow cress	H	OBL	4
*Rumex crispus**	curly dock	H	FAC	-
Sambucus canadensis	common elder	S	FACW	1
Scirpus validus var. creber	soft-stem bulrush	H	OBL	5
Typha latifolia	broad-leaved cattail	H	OBL	1
Vitis riparia	riverbank grape	H	FACW	2

*Non-native species **Bolded species is dominant in the denoted stratum** Mean C = 2.4

H = Herb, T = Tree, S = Sapling/Shrub, W = Woody Vine FQI = 12.3

Site 21 - Wet meadow

Scientific Name	Common Name	Strata	Wetland Indicator Status	Coefficient of Conservatism
Phalaris arundinacea*	**reed canary grass**	**H**	**FACW**	**-**
*Agrostis alba**	red top	H	FACW	-
Ambrosia artemisiifolia var. elatior	common ragweed	H	FACU	0
*Cirsium arvense**	field thistle	H	FACU	-
*Cirsium vulgare**	bull thistle	H	FACU	-
Echinochloa crusgalli	barnyard grass	H	FACW	0
Erechtites hieracifolia	fireweed	H	FAC	2
Erigeron canadensis	horseweed	H	FACU	0
*Festuca elatior**	tall fescue	H	FACU	-
Panicum capillare	old witch grass	H	FAC	1
Parthenocissus quinquefolia	Virginia creeper	HW	FACU	2
*Pastinaca sativa**	wild parsnip	H	UPL	-
*Plantago lanceolata**	English plantain	H	FACU	-
*Poa pratensis**	Kentucky blue grass	H	FAC	-
Polygonum hydropiper	water pepper	H	OBL	2
Polygonum pensylvanicum	pinkweed	H	FACW	0
*Polygonum persicaria**	lady's thumb	H	FACW	-
*Rumex crispus**	curly dock	H	FAC	-
*Setaria glauca**	pigeon grass	H	FAC	-
Solidago canadensis	Canada goldenrod	H	FACU	1
Typha angustifolia	narrow-leaved cattail	H	OBL	1
Typha latifolia	broad-leaved cattail	H	OBL	1
Verbena hastata	blue vervain	H	FACW	4
Vitis riparia	riverbank grape	H	FACW	2

*Non-native species **Bolded species is dominant in the denoted stratum** Mean C = 1.2

H = Herb, T = Tree, S = Sapling/Shrub, W = Woody Vine FQI = 4.4

Site 22 - Wetland pond

Scientific Name	Common Name	Strata	Wetland Indicator Status	Coefficient of Conservatism
Typha angustifolia	**narrow-leaved cattail**	**H**	**OBL**	**1**
Typha x glauca	**hybrid cattail**	**H**	**OBL**	**1**
Acnida altissima	tall waterhemp	H	OBL	0
*Agrostis alba**	red top	H	FACW	-
Alisma subcordatum	common water plantain	H	OBL	4
Apocynum cannabinum	dogbane	H	FAC	4
Cyperus ferruginescens	rusty nut sedge	H	FACW	2
Echinochloa crusgalli	spiny barnyard grass	H	OBL	0
Eleocharis erythropoda	red-rooted spike rush	H	OBL	2
Panicum capillare	old witch grass	H	FAC	1
Panicum dichotomiflorum	fall panicum	H	FACW	0
*Phalaris arundinacea**	reed canary grass	H	FACW	-
Polygonum buxiforme	boxwood knotweed	H	FAC	0
Polygonum pensylvanicum	pinkweed	H	FACW	0
Populus deltoides	eastern cottonwood	H	FAC	2
Proserpinaca palustris var. crebra	mermaid weed	H	OBL	6
Rorippa palustris var. fernaldiana	marsh yellow cress	H	OBL	4
Rumex altissimus	pale dock	H	FACW	2
*Rumex crispus**	curly dock	H	FAC	-
Salix amygdaloides	peach-leaved willow	HS	FACW	5
Salix nigra	black willow	H	OBL	4
*Setaria faberi**	giant foxtail	H	FACU	-
*Trifolium hybridum**	alsike clover	H	FACU	-

*Non-native species **Bolded species is dominant in the denoted stratum** Mean C = 2.1

H = Herb, T = Tree, S = Sapling/Shrub, W = Woody Vine FQI = 9.0

Site 23 - Wetland pond

Scientific Name	Common Name	Strata	Wetland Indicator Status	Coefficient of Conservatism
Panicum dichotomiflorum	**fall panicum**	**H**	**FACW**	**0**
Acnida altissima	tall waterhemp	H	OBL	0
Alisma subcordatum	common water plantain	H	OBL	4
*Avena sativa**	oats	H	UPL	-
Bidens connata	purple-stemmed tickseed	H	OBL	5
Bidens frondosa	common beggar's ticks	H	FACW	1
Cyperus esculentus	field nut sedge	H	FACW	0
Echinochloa crusgalli	spiny barnyard grass	H	OBL	0
*Eclipta prostrata**	yerba de tajo	H	FACW	-
Eleocharis erythropoda	red-rooted spike rush	H	OBL	2
Eleocharis palustris var. major	marsh spike rush	H	OBL	5
Lemna minor	small duckweed	H	OBL	5
*Phalaris arundinacea**	reed canary grass	H	FACW	-
Polygonum hydropiperoides	mild water pepper	H	OBL	7
*Polygonum persicaria**	lady's thumb	H	FACW	-
Polygonum punctatum	smartweed	H	OBL	6
Populus deltoides	eastern cottonwood	H	FAC	2
Potamogeton pectinatus	comb pondweed	H	OBL	5
Ranunculus sceleratus	cursed crowfoot	H	OBL	6
Rorippa palustris var. fernaldiana	marsh yellow cress	H	OBL	4
*Rumex crispus**	curly dock	H	FAC	-
Sagittaria latifolia	common arrowhead	H	OBL	4
Scirpus validus var. creber	soft-stem bulrush	H	OBL	5
Typha angustifolia	narrow-leaved cattail	H	OBL	1
Typha x glauca	hybrid cattail	H	OBL	1

*Non-native species **Bolded species is dominant in the denoted stratum** Mean C = 3.2
H = Herb, T = Tree, S = Sapling/Shrub, W = Woody Vine FQI = 14.1

Site 24 - Wet meadow

Scientific Name	Common Name	Strata	Wetland Indicator Status	Coefficient of Conservatism
Phalaris arundinacea*	**reed canary grass**	**H**	**FACW**	**-**
*Cirsium arvense**	field thistle	H	FACU	-
Eupatorium rugosum	white snakeroot	H	FACU	4
*Glechoma hederacea**	ground ivy	H	FACU	-
Impatiens capensis	spotted touch-me-not	H	FACW	3
Pilea pumila	Canada clearweed	H	FACW	5
*Polygonum cuspidatum**	Japanese knotweed	H	FACU	-
Polygonum scandens	climbing false buckwheat	H	FAC	1
*Rhamnus cathartica**	common buckthorn	S	FAC	-
Salix amygdaloides	peach-leaved willow	T	FACW	5
Sambucus canadensis	common elder	H	FACW	1
*Solanum dulcamara**	bittersweet nightshade	H	FAC	-
Urtica procera	stinging nettle	H	FACW	2

*Non-native species **Bolded species is dominant in the denoted stratum** Mean C = 3.0
H = Herb, T = Tree, S = Sapling/Shrub, W = Woody Vine FQI = 7.9

Site 25 - Wet meadow

Scientific Name	Common Name	Strata	Wetland Indicator Status	Coefficient of Conservatism
Phalaris arundinacea*	**reed canary grass**	**H**	**FACW**	**-**
Asclepias syriaca	common milkweed	H	FACU	0
*Asparagus officinalis**	garden asparagus	H	FACU	-
*Cirsium arvense**	field thistle	H	FACU	-
Salix interior	sandbar willow	S	FACW	1
Urtica procera	stinging nettle	H	FACW	2
Vitis riparia	riverbank grape	W	FACW	2

*Non-native species **Bolded species is dominant in the denoted stratum** Mean C = 1.3
H = Herb, T = Tree, S = Sapling/Shrub, W = Woody Vine FQI = 2.5

Site 26 - Wet shrubland

Scientific Name	Common Name	Strata	Wetland Indicator Status	Coefficient of Conservatism
Phalaris arundinacea*	**reed canary grass**	**H**	**FACW**	**-**
Salix interior	**sandbar willow**	H**S**	**FACW**	**1**
Alisma subcordatum	common water plantain	H	OBL	4
*Cirsium arvense**	field thistle	H	FACU	-
*Dipsacus laciniatus**	cut-leaved teasel	H	UPL	-
Impatiens capensis	spotted touch-me-not	H	FACW	3
Polygonum scandens	climbing false buckwheat	H	FAC	1
Sambucus canadensis	common elder	S	FACW	1
Solidago canadensis	Canada goldenrod	H	FACU	1
Verbena hastata	blue vervain	H	FACW	4
Vitis riparia	riverbank grape	W	FACW	2

*Non-native species **Bolded species is dominant in the denoted stratum** Mean C = 2.1
H = Herb, T = Tree, S = Sapling/Shrub, W = Woody Vine FQI = 6.0

Site 27 - Wetland pond

Scientific Name	Common Name	Strata	Wetland Indicator Status	Coefficient of Conservatism
Acer saccharinum	**silver maple**	H**ST**	**FACW**	**0**
Lythrum salicaria*	**purple loosestrife**	**H**	**OBL**	**-**
Phalaris arundinacea*	**reed canary grass**	**H**	**FACW**	**-**
Populus deltoides	**eastern cottonwood**	**T**	**FAC**	**2**
Rhamnus cathartica*	**common buckthorn**	H**ST**	**FAC**	**-**
Rhamnus frangula*	**glossy buckthorn**	**HST**	**FACW**	**-**
*Agrostis alba**	red top	H	FACW	-
Alisma subcordatum	common water plantain	H	OBL	4
Aster simplex	panicled aster	H	FAC	3
Bidens comosa	swamp tickseed	H	OBL	5
Bidens connata	purple-stemmed tickseed	H	OBL	5
Bidens frondosa	common beggar's ticks	H	FACW	1
Carex sp.	sedge	H	-	-
Carex tribuloides	awl-fruited oval sedge	H	OBL	3
Ceratophyllum demersum	coontail	H	OBL	5
*Cirsium arvense**	field thistle	H	FACU	-
Cornus obliqua	pale dogwood	HS	FACW	6
Epilobium ciliatum	northern willow herb	H	FACW	3
Eupatorium serotinum	late boneset	H	FAC	0
Fraxinus pennsylvanica var. subintegerrima	green ash	ST	FACW	1
Impatiens capensis	spotted touch-me-not	H	FACW	3
Juncus torreyi	Torrey's rush	H	FACW	4
Lemna minor	small duckweed	H	OBL	5
*Lysimachia nummularia**	moneywort	H	FACW	-
*Morus alba**	white mulberry	ST	FAC	-
Phragmites australis	common reed	H	FACW	1
Polygonum punctatum	smartweed	H	OBL	6
Polygonum scandens	climbing false buckwheat	H	FAC	1
Potamogeton sp.	pondweed	H	OBL	-
Ranunculus sceleratus	cursed crowfoot	H	OBL	6
*Rumex crispus**	curly dock	H	FAC	-
Salix amygdaloides	peach-leaved willow	S	FACW	5
Salix nigra	black willow	ST	OBL	4
Scirpus atrovirens	dark green rush	H	OBL	4
Scutellaria lateriflora	mad-dog skullcap	H	OBL	5
*Solanum dulcamara**	bittersweet nightshade	H	FAC	-
Solidago canadensis	Canada goldenrod	H	FACU	1
Typha angustifolia	narrow-leaved cattail	H	OBL	1
Typha latifolia	broad-leaved cattail	H	OBL	1
Typha x glauca	hybrid cattail	H	OBL	1
Verbena hastata	blue vervain	H	FACW	4
Verbena urticifolia	white vervain	H	FAC	5
Vitis riparia	riverbank grape	HW	FACW	2

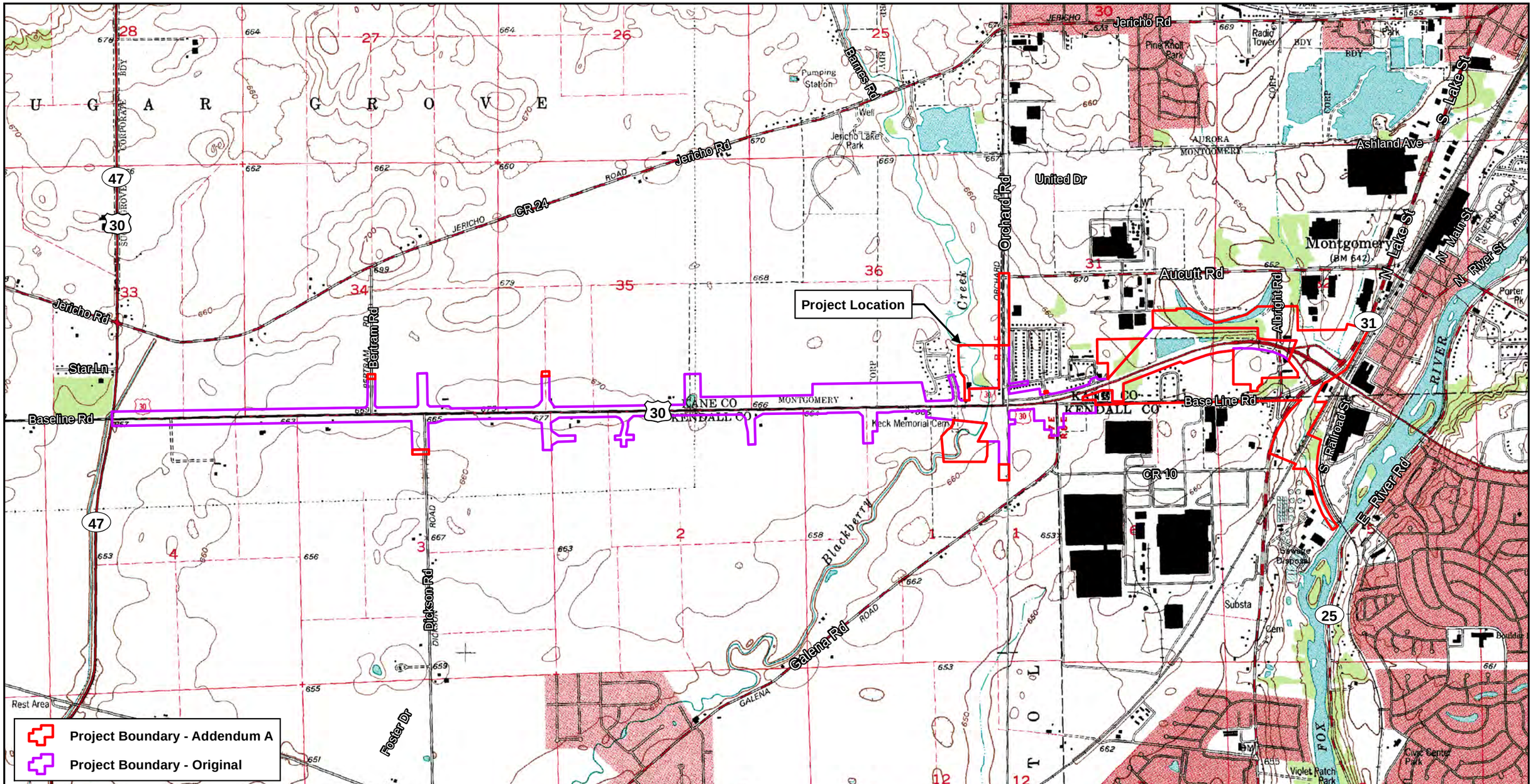
*Non-native species **Bolded species is dominant in the denoted stratum** Mean C = 3.1

H = Herb, T = Tree, S = Sapling/Shrub, W = Woody Vine FQI = 17.4

APPENDIX C

Figures

Figure 1 – Project Location Map 99
Figure 2 – National Wetlands Inventory Map 100
Figure 3 – ADID Wetland Map 101
Figure 4 – Soil Survey Map 102
Figure 5 – Wetland Delineation Overview Map 103
Figure 6 – Wetland Delineation Maps 104



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ILLINOIS NATURAL HISTORY SURVEY
PRAIRIE RESEARCH INSTITUTE

Wetland Science Program
1816 South Oak Street
Champaign, Illinois 61820

Figure 1
Project Location Map
US 30 - Baseline Road (FAP 349), IL 47 to Albright Road - Addendum A
Kane and Kendall Counties

Seq. No: 17659A

Meters 0 500

Feet 0 2,000

November 2014

N W E S

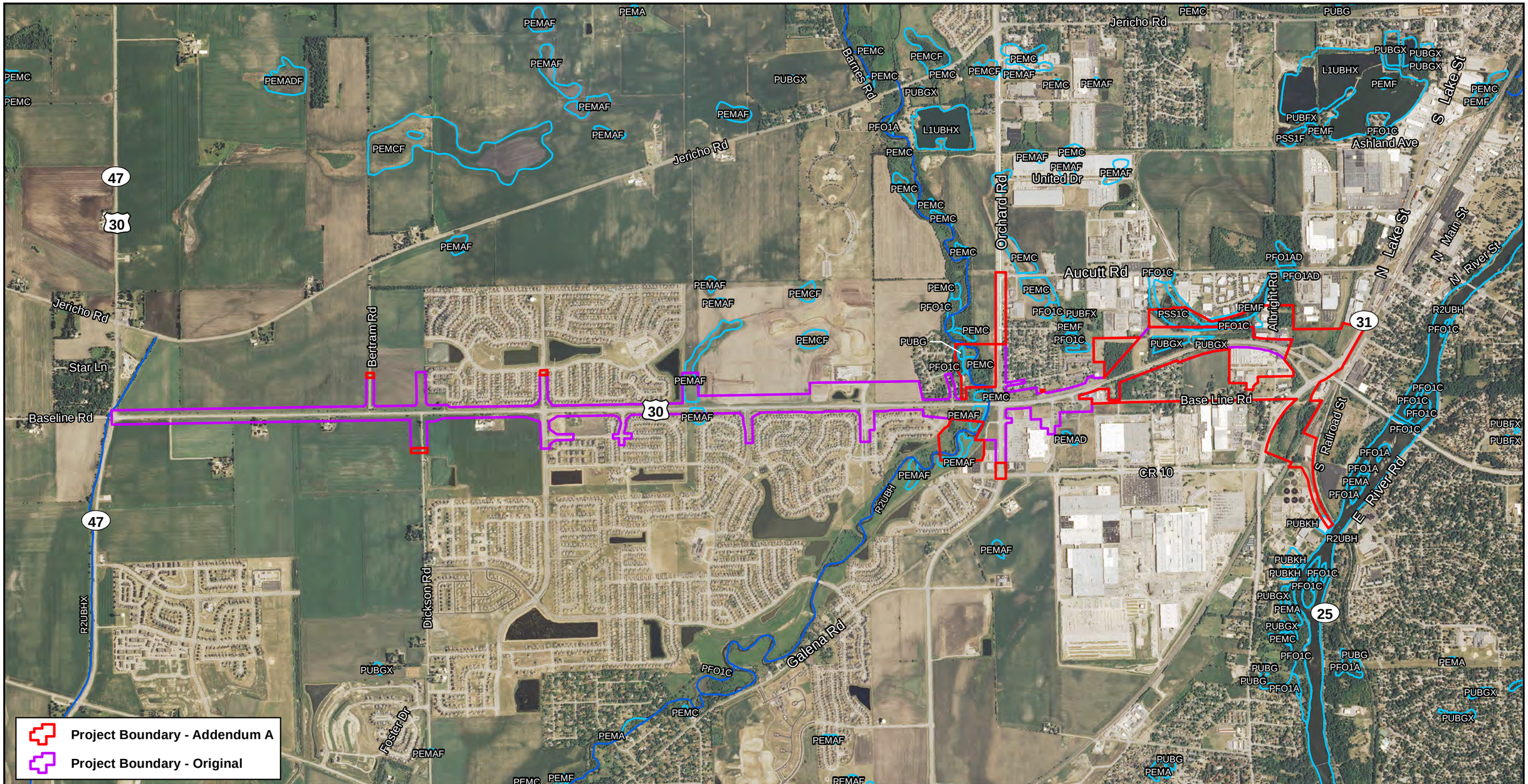

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Figure 2
National Wetlands Inventory Map
US 30 - Baseline Road (FAP 349), IL 47 to Albright Road - Addendum A
Kane and Kendall Counties

Seq. No: 17659A

Meters 0 500

Feet 0 2,000

November 2014

N W E S

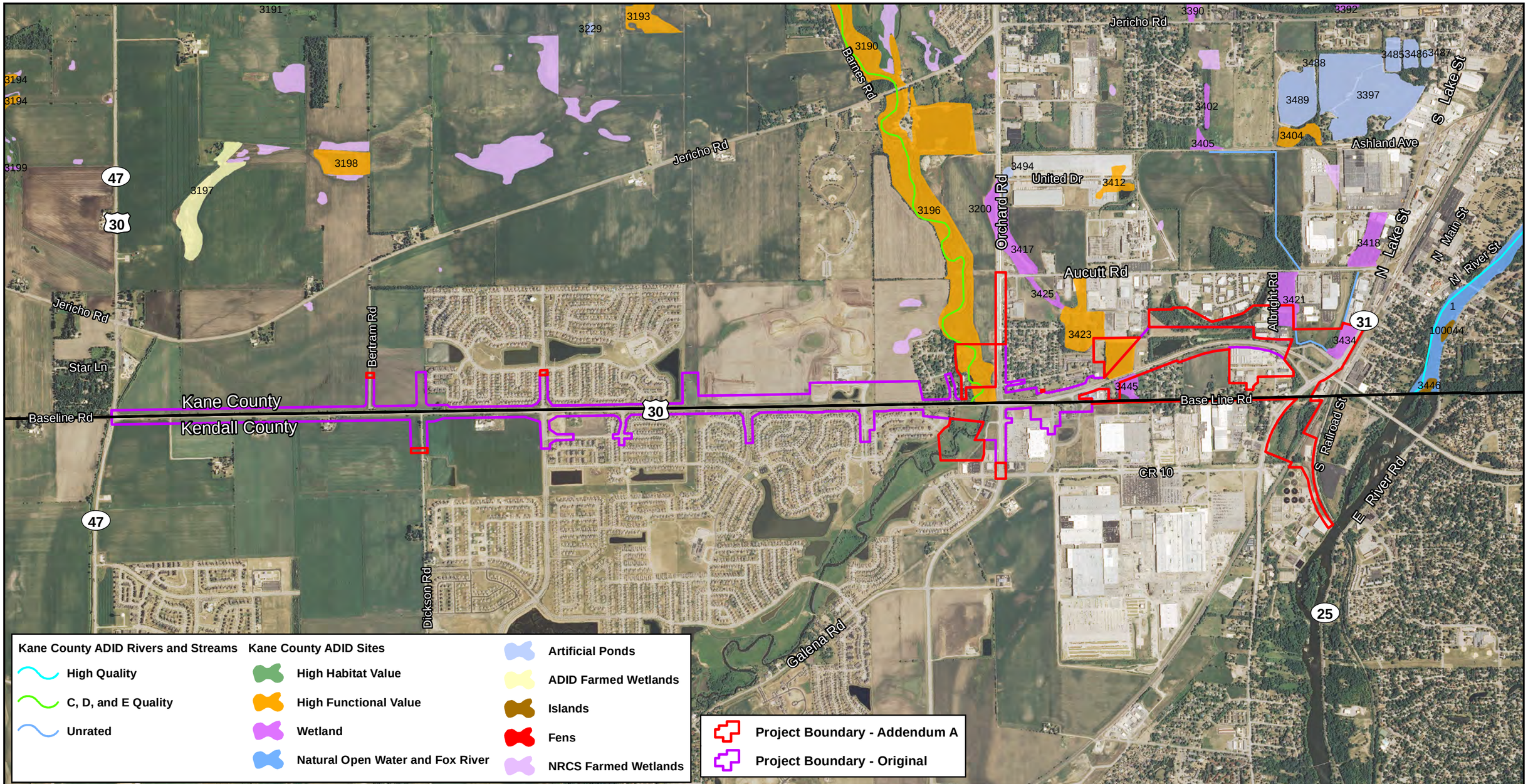

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Figure 3
Kane County ADID Map
US 30 - Baseline Road (FAP 349), IL 47 to Albright Road - Addendum A
Kane and Kendall Counties

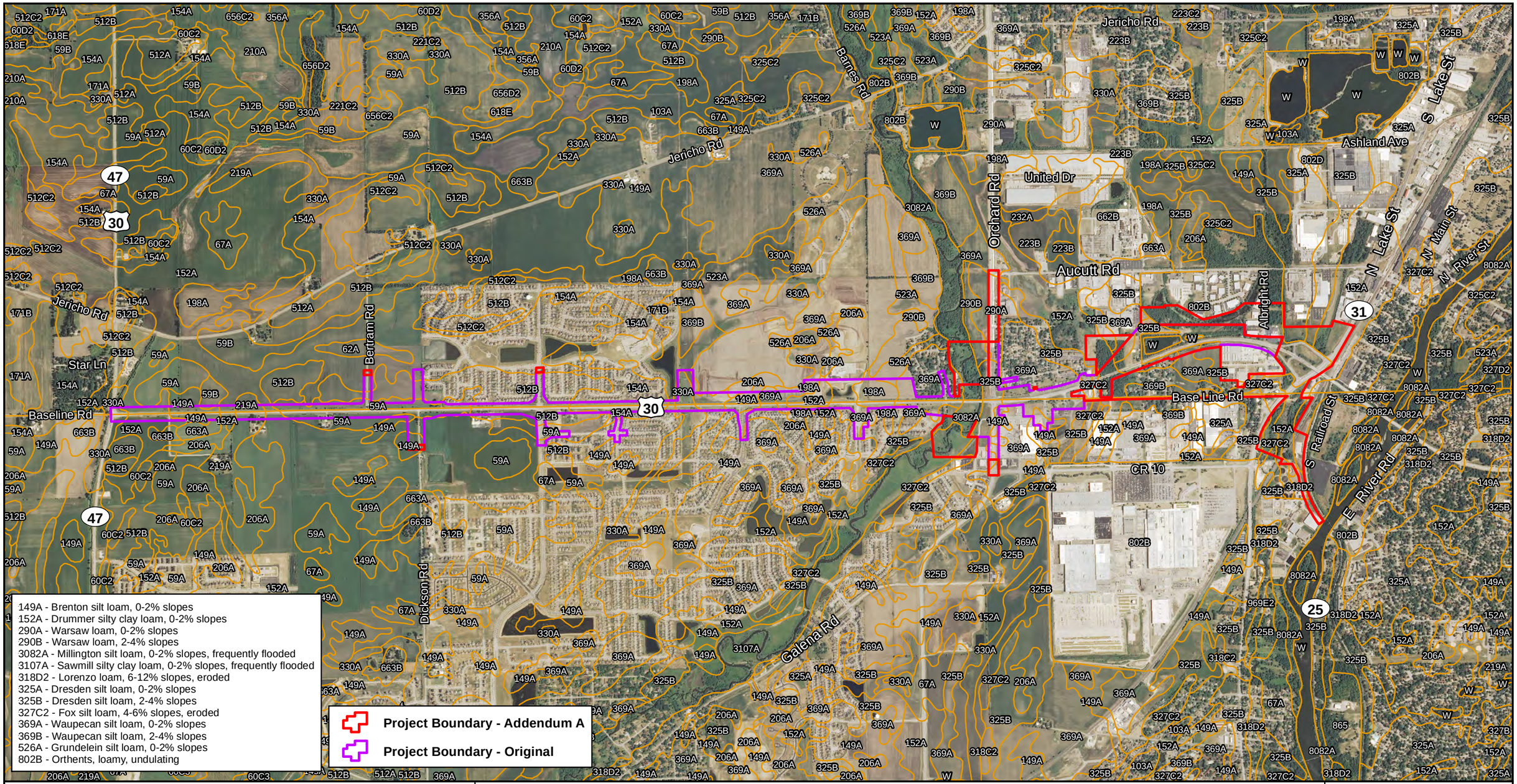
Seq. No: 17659A

Meters 0 500

Feet 0 2,000

November 2014

N W E S



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PRAIRIE RESEARCH INSTITUTE

Wetland Science Program
1816 South Oak Street
Champaign, Illinois 61820

Figure 4
Soil Survey Map
US 30 - Baseline Road (FAP 349), IL 47 to Albright Road - Addendum A
Kane and Kendall Counties

Seq. No: 17659A

Meters 0 500

Feet 0 2,000

November 2014

N W E S

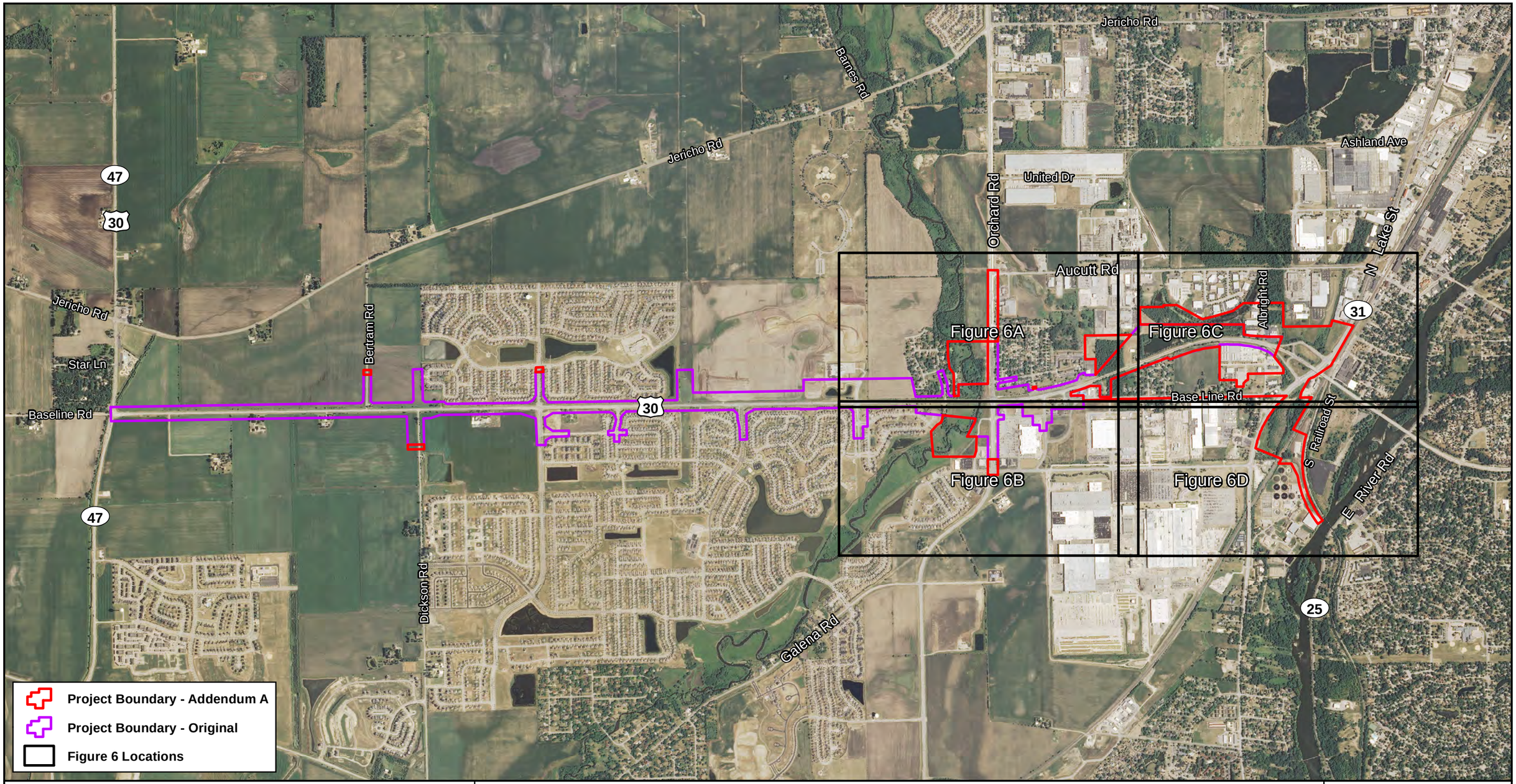

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Figure 5
Wetland Delineation Overview Map
US 30 - Baseline Road (FAP 349), IL 47 to Albright Road - Addendum A
Kane and Kendall Counties

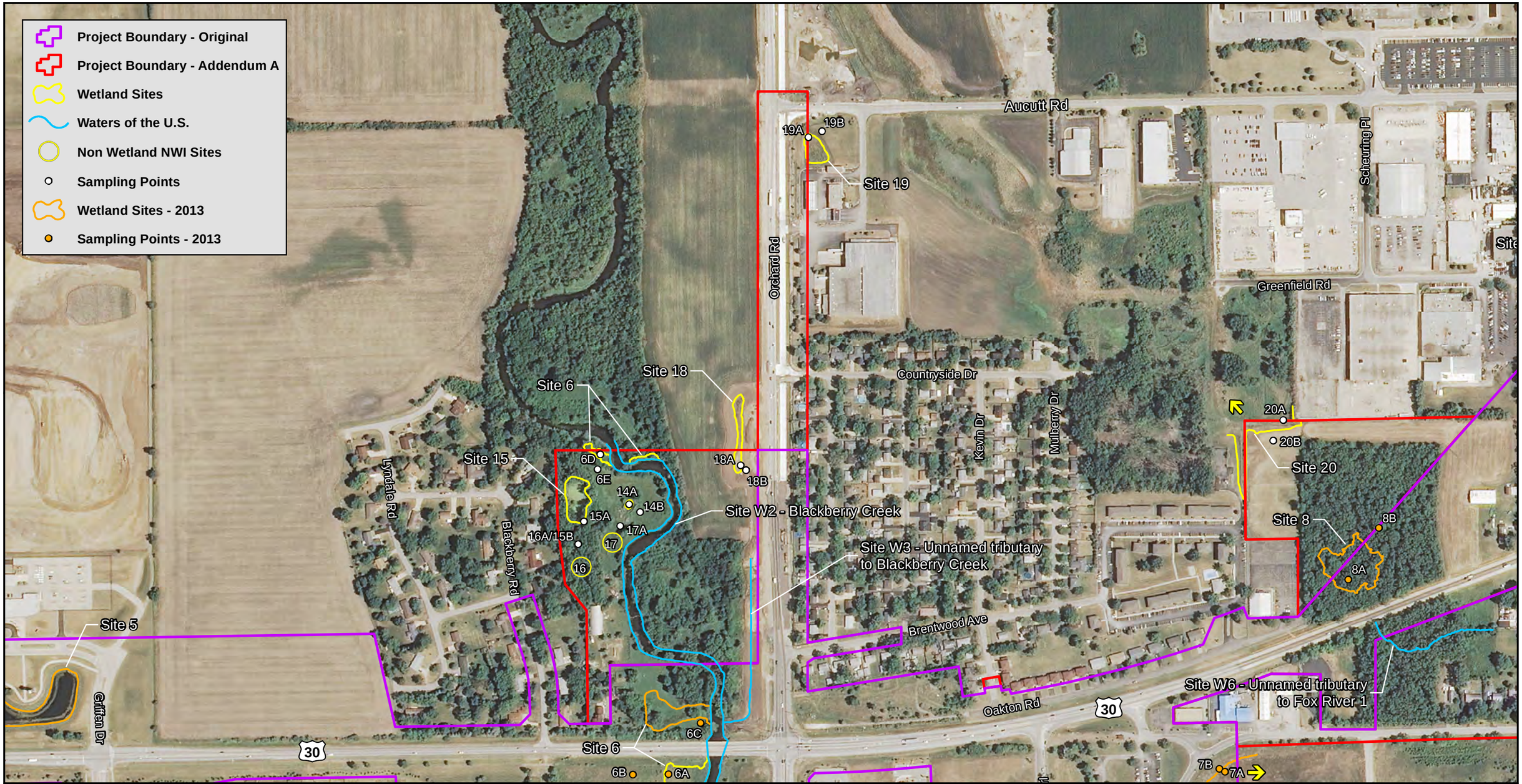
Seq. No: 17659A

Meters 0 500

Feet 0 2,000

November 2014

N W E S



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Wetland Science Program
1816 South Oak Street
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Figure 6A
Wetland Delineation Map
US 30 - Baseline Road (FAP 349), IL 47 to Albright Road - Addendum A
Kane and Kendall Counties

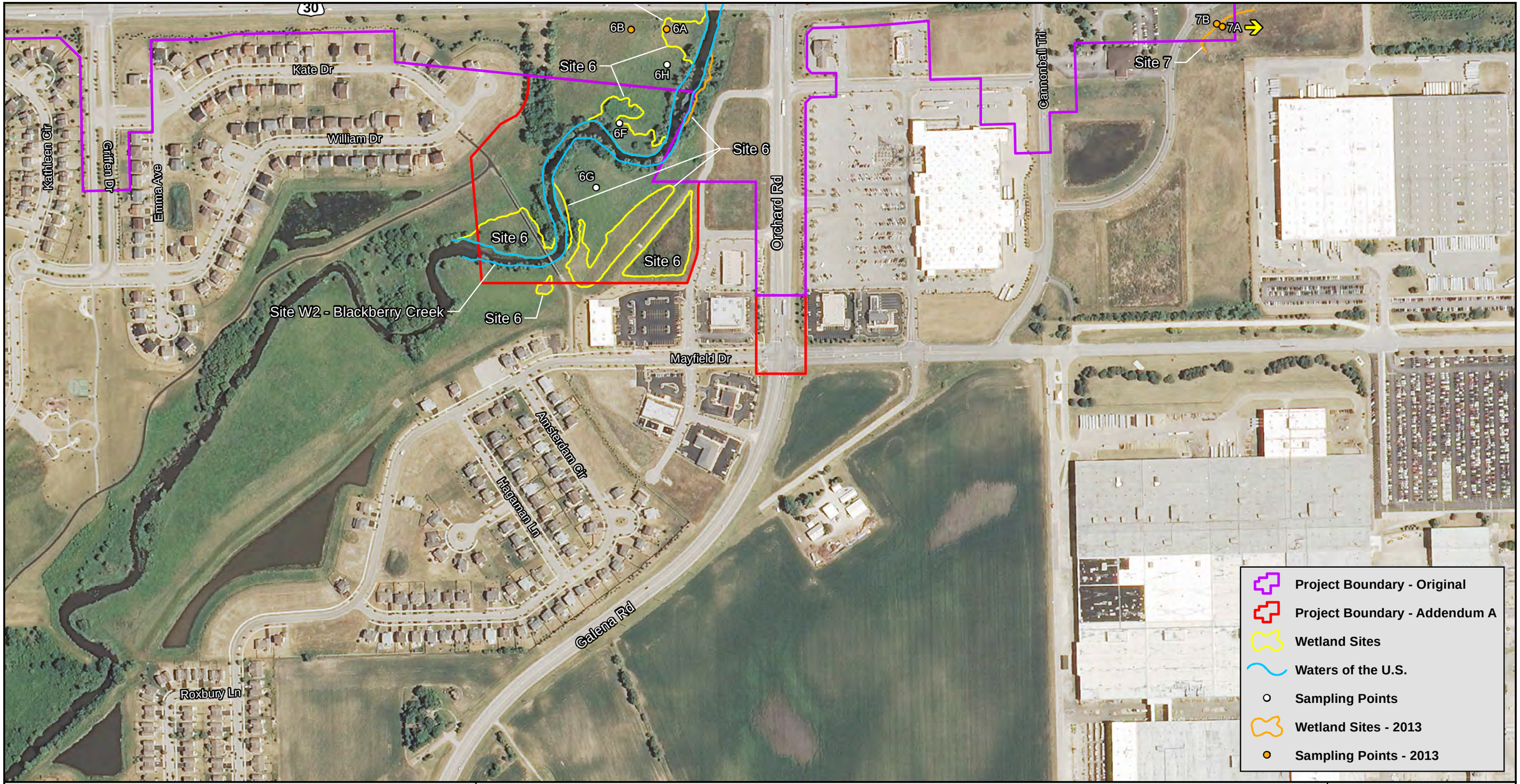
Seq. No: 17659A

Meters 0 125

Feet 0 400

November 2014

N W E S



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ILLINOIS NATURAL HISTORY SURVEY
PRAIRIE RESEARCH INSTITUTE

Wetland Science Program
1816 South Oak Street
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Figure 6B
Wetland Delineation Map
US 30 - Baseline Road (FAP 349), IL 47 to Albright Road - Addendum A
Kane and Kendall Counties

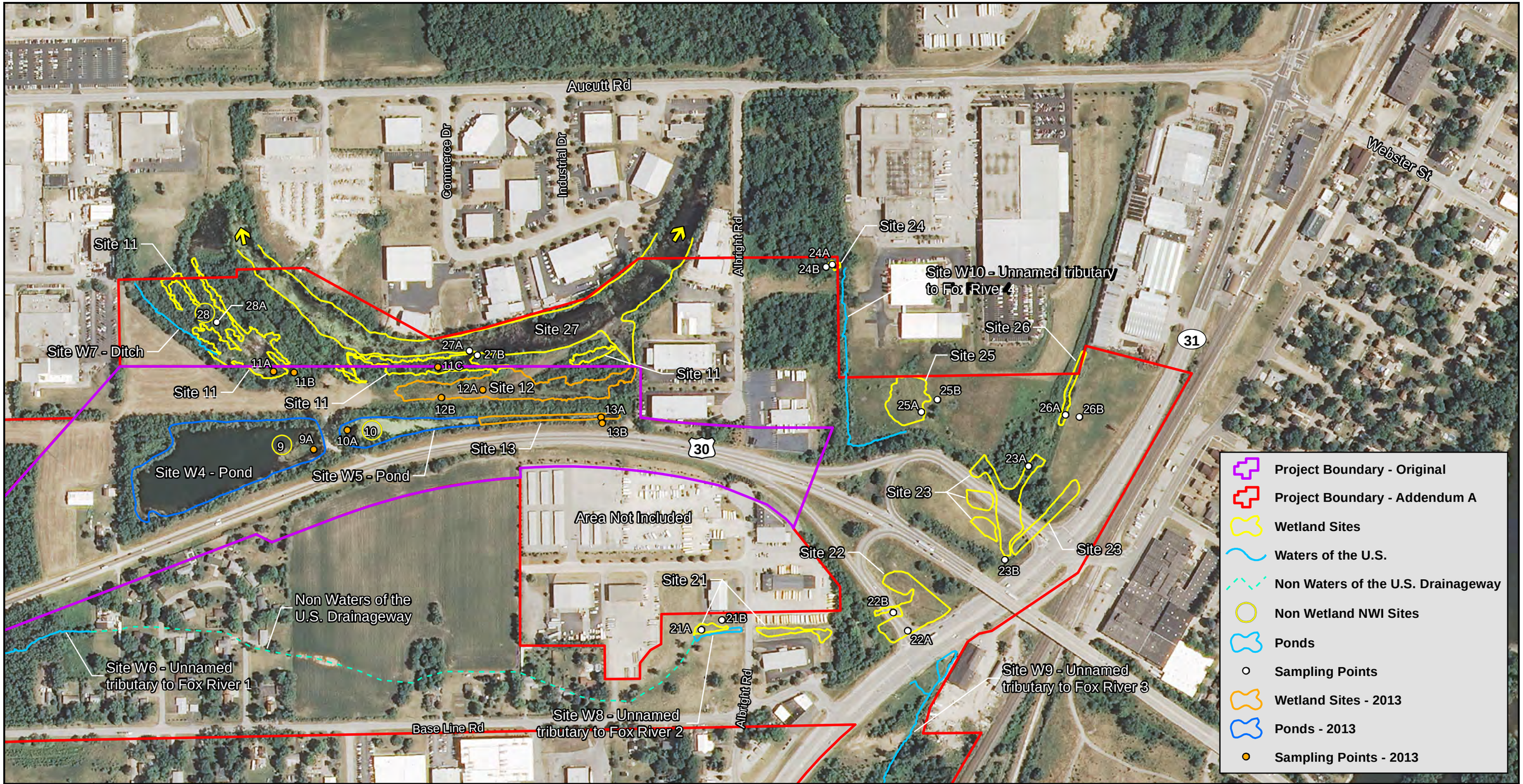
Seq. No: 17659A

Meters 0 125

Feet 0 400

November 2014

N W E S



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PRAIRIE RESEARCH INSTITUTE

Wetland Science Program
1816 South Oak Street
Champaign, Illinois 61820

Figure 6C
Wetland Delineation Map
US 30 - Baseline Road (FAP 349), IL 47 to Albright Road - Addendum A
Kane and Kendall Counties

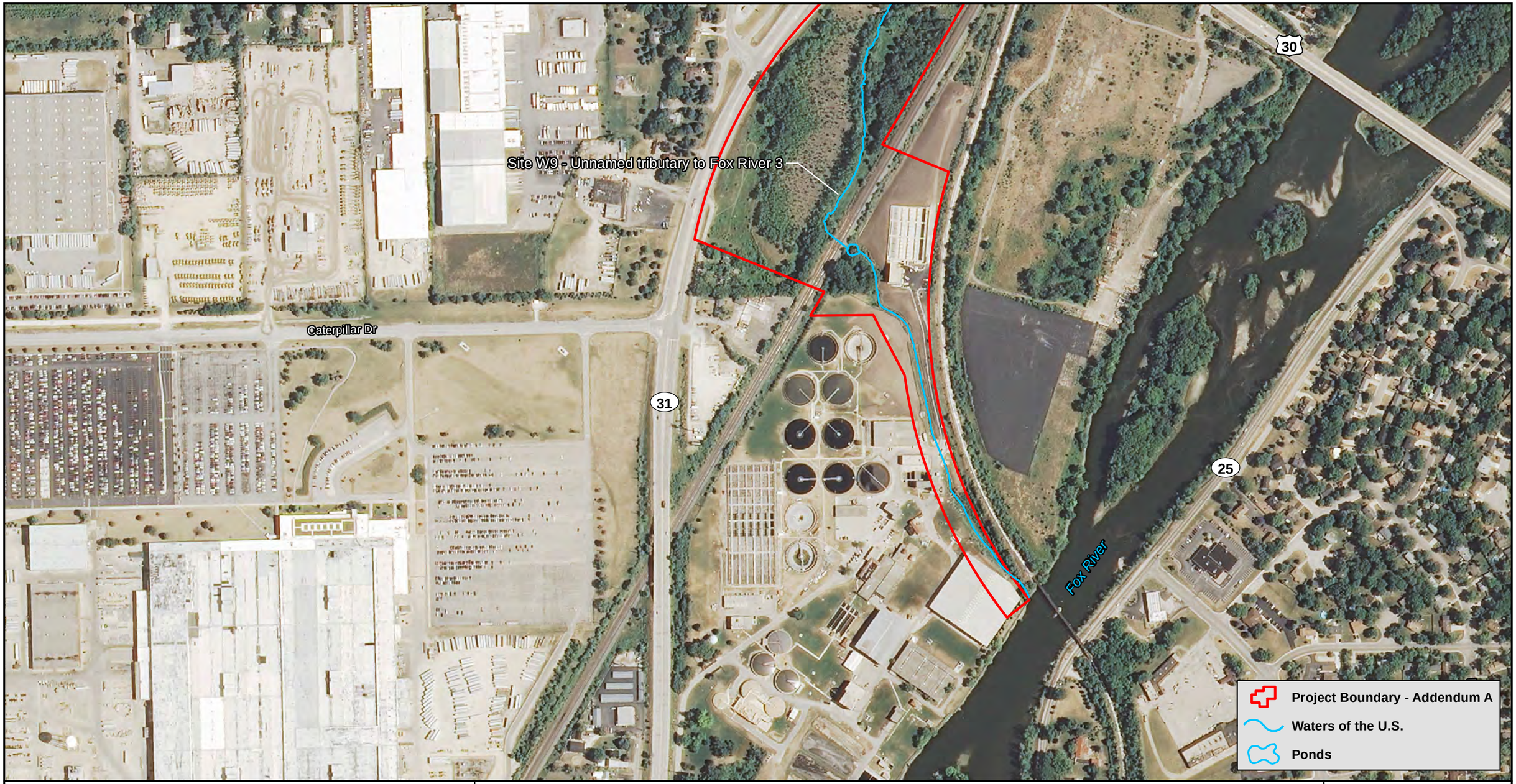
Seq. No: 17659A

Meters 0 125

Feet 0 400

November 2014

N W E S



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PRAIRIE RESEARCH INSTITUTE
Wetland Science Program
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Champaign, Illinois 61820

Figure 6D
Wetland Delineation Map
US 30 - Baseline Road (FAP 349), IL 47 to Albright Road - Addendum A
Kane and Kendall Counties

Seq. No: 17659A

Meters 0 125

Feet 0 400

November 2014

N W E S

S-10

Historic Photo Log

Photo Log - Potential Buildings Over 40 Years Old

US 30 (Baseline Road): IL 47 to IL 31

Kane and Kendall Counties

IDOT Job No. P-91-403-11

Photo 1

Photo 1-A

Photo 1-B

Photo 2

Photo 2-A

Photo 2-B

Photo 3

Photo 4

Photo 4-A

Photo 4-B

Photo 4-C

Photo 5

Photo 6

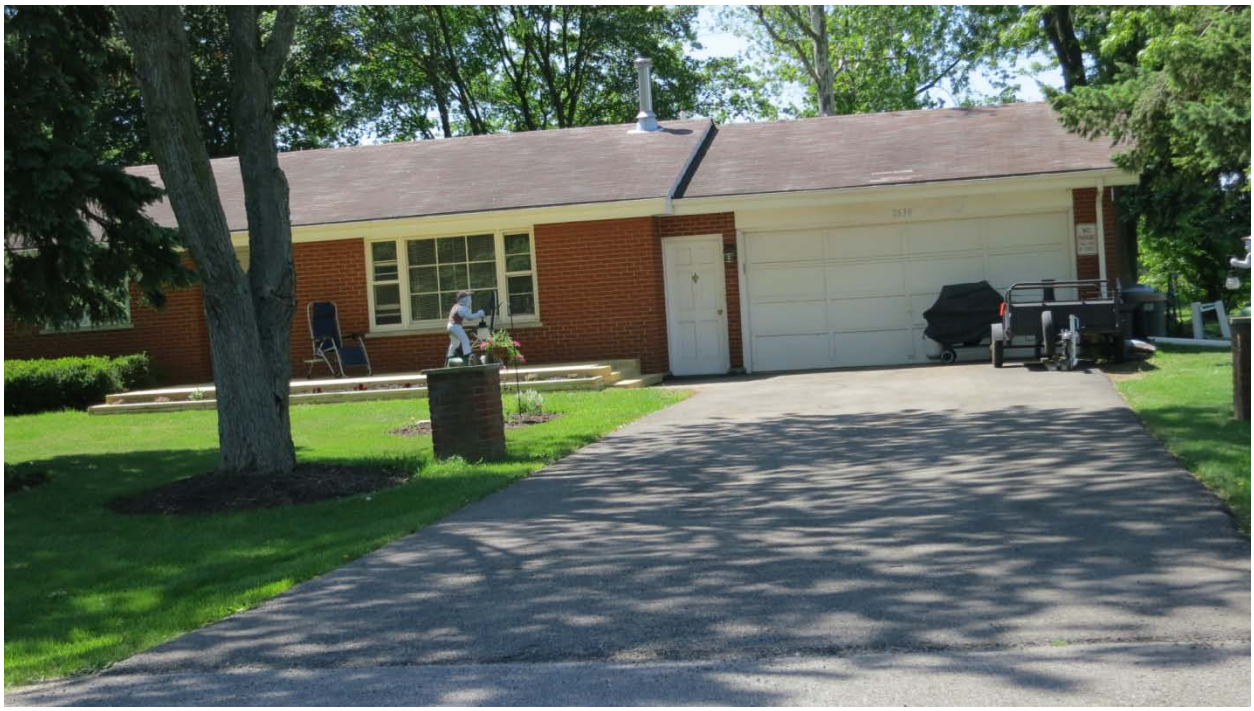


Photo 6-A

Photo 7

Photo 7-A

JACOB KECK MEMORIAL CEMETERY Est. 1843
JACOB KECK
MEMORIAL CEMETARY

Photo 8

Photo 9

Photo 9-A

Photo 10

Photo 11

Photo 11-A

Photo 12-A

Photo 12-B

Photo 12-C

Photo 13

Photo 14

Photo 15

Photo 16

Photo 17

Photo 18

Photo 19

Photo 20

Photo 21

Photo 22

Photo 23

Photo 24

Photo 25

Photo 25-A

Photo 25-B

Photo 26

Photo 27

Photo 28

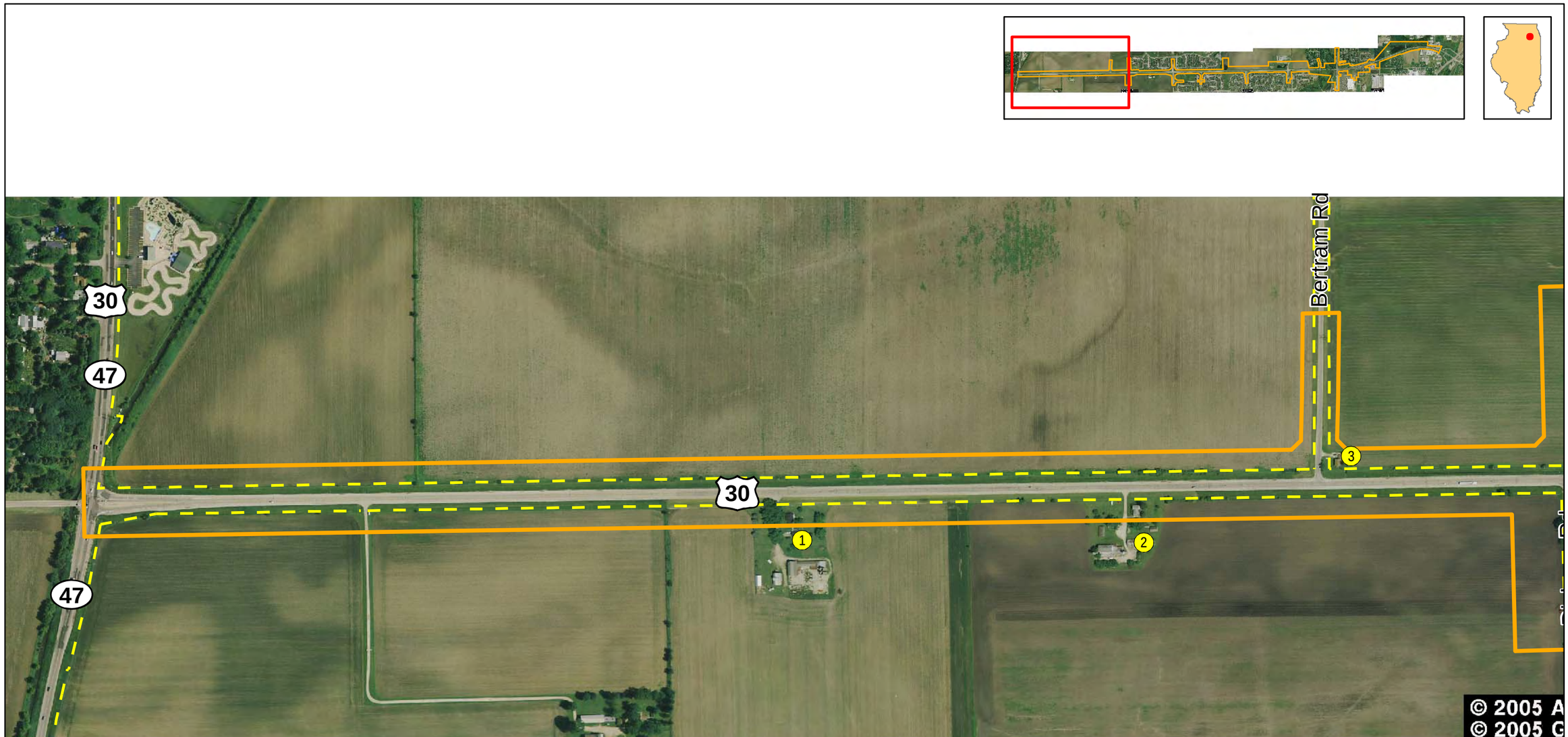
Photo 29

Photo 30

Photo 31

Photo 32

Photo 33



LEGEND

- EXISTING ROW
- ESR LIMITS
- 3 Potential Historic Structures Photo Log Number

N

0 250 500
Feet

DRAFT

EXHIBIT 1 of 4
Potential Historic Structures Photo Log
US 30 from Illinois 47 to Illinois 31
Kane and Kendall Counties

CH2MHILL

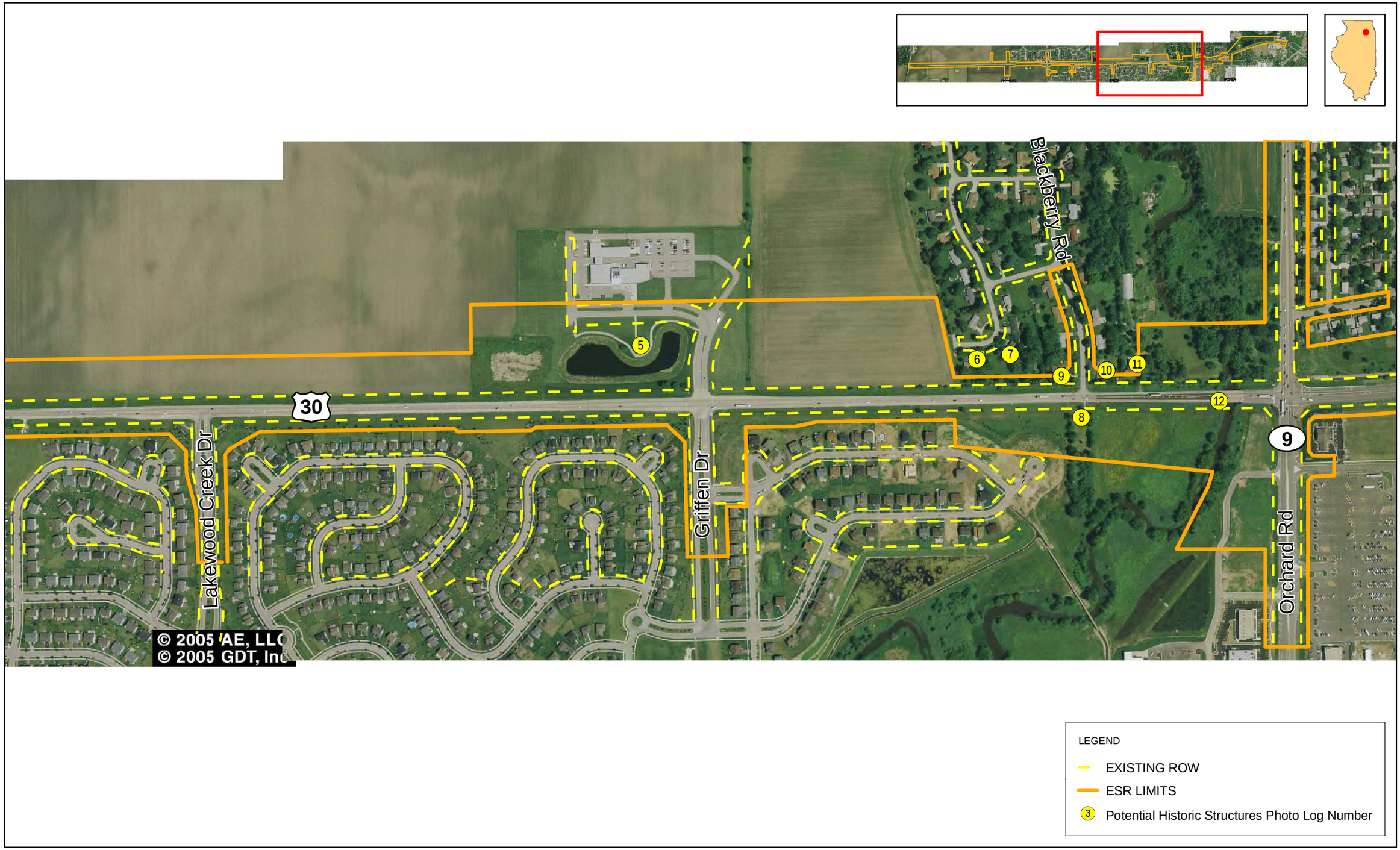
N

0 250 500
Feet

DRAFT

EXHIBIT 2 of 4
Potential Historic Structures Photo Log
US 30 from Illinois 47 to Illinois 31
Kane and Kendall Counties

CH2MHILL



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Feet

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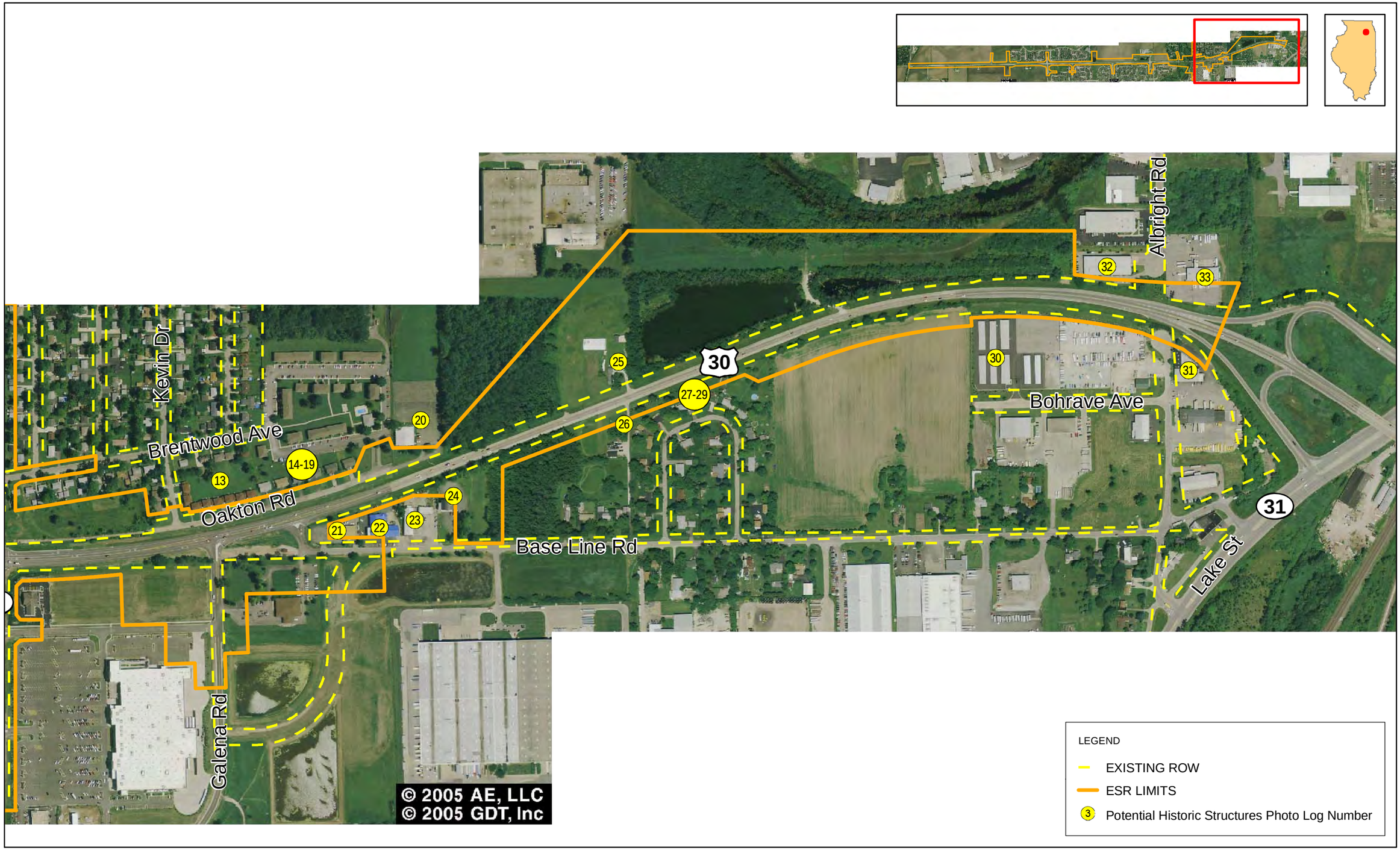
EXHIBIT 3 of 4
Potential Historic Structures Photo Log
US 30 from Illinois 47 to Illinois 31
Kane and Kendall Counties

CH2MHILL



N

0 250 500
Feet

DRAFT

EXHIBIT 4 of 4
Potential Historic Structures Photo Log
US 30 from Illinois 47 to Illinois 31
Kane and Kendall Counties

CH2MHILL

US 30 Baseline Rd: IL 47 to east of Albright Rd

Created 06/01/12 1:10 PM

Illinois Historic Preservation Agency

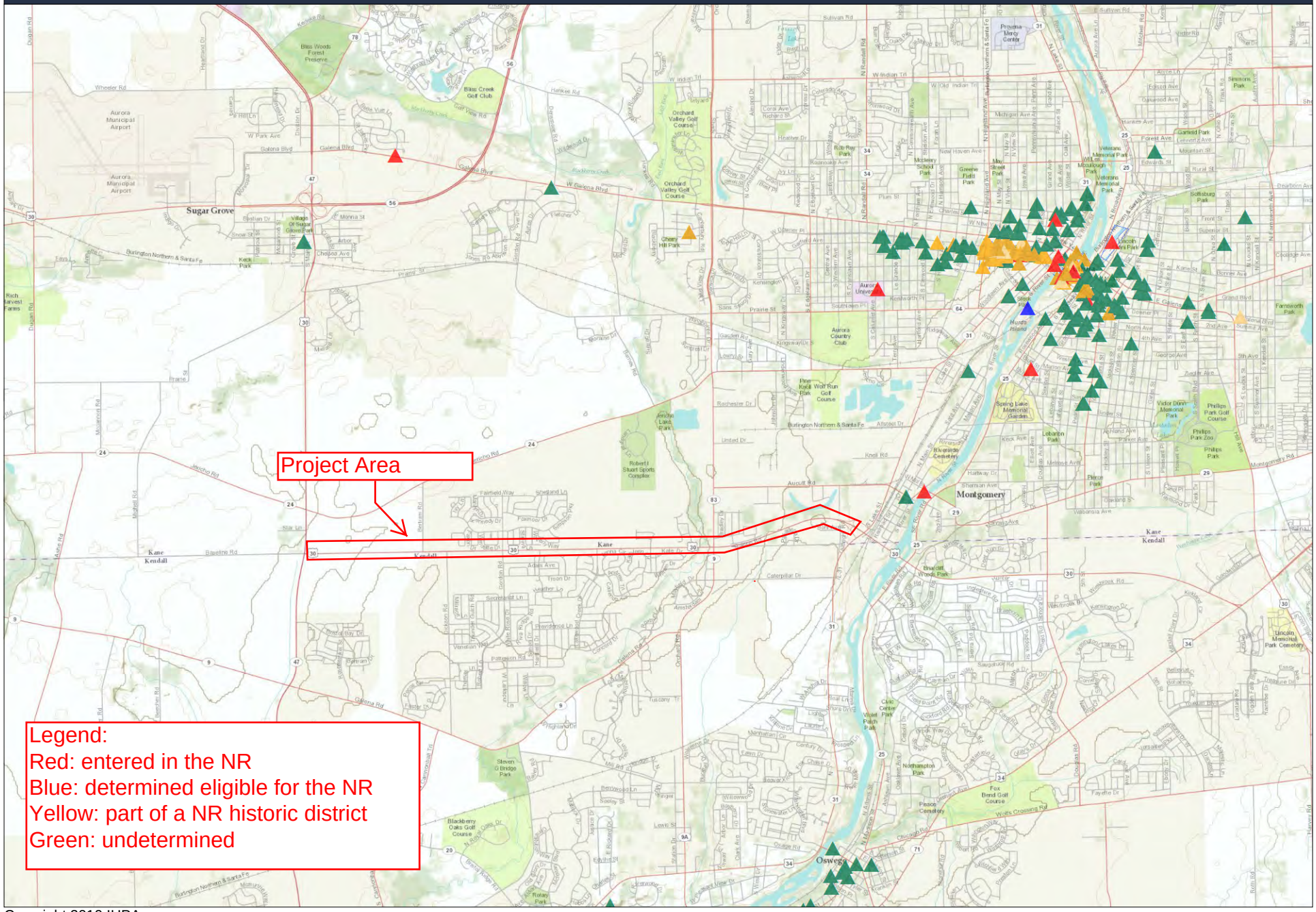


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Photo Log – Buildings within the Addendum Areas

US 30 (Baseline Road): IL 47 to IL 31

Kane and Kendall Counties

IDOT Job No. P-91-403-11

May 2014

Photo 1A

Photo 2A

Photo 3A

Photo 4A

Photo 5A

Photo 6A

Photo 7A

Photo 8A

Photo 9A

Photo 10A

Photo 11A

Photo 12A

Photo 13A

Photo 14A

Photo 15A

Photo 16A

Photo 17A

Photo 18A

Photo 19A

Photo 20A

Photo 21A

Photo 22A

Photo 23A

Photo 24A

Photo 25A

Photo 26A

Photo 27A

Photo 28A

Photo 29A

Photo 30A

Photo 31A

Photo 32A

Photo 33A

Photo 34A

Photo 35A

Photo 36A

Photo 37A

Photo 38A

Photo 39A

Photo 40A

Photo 41A

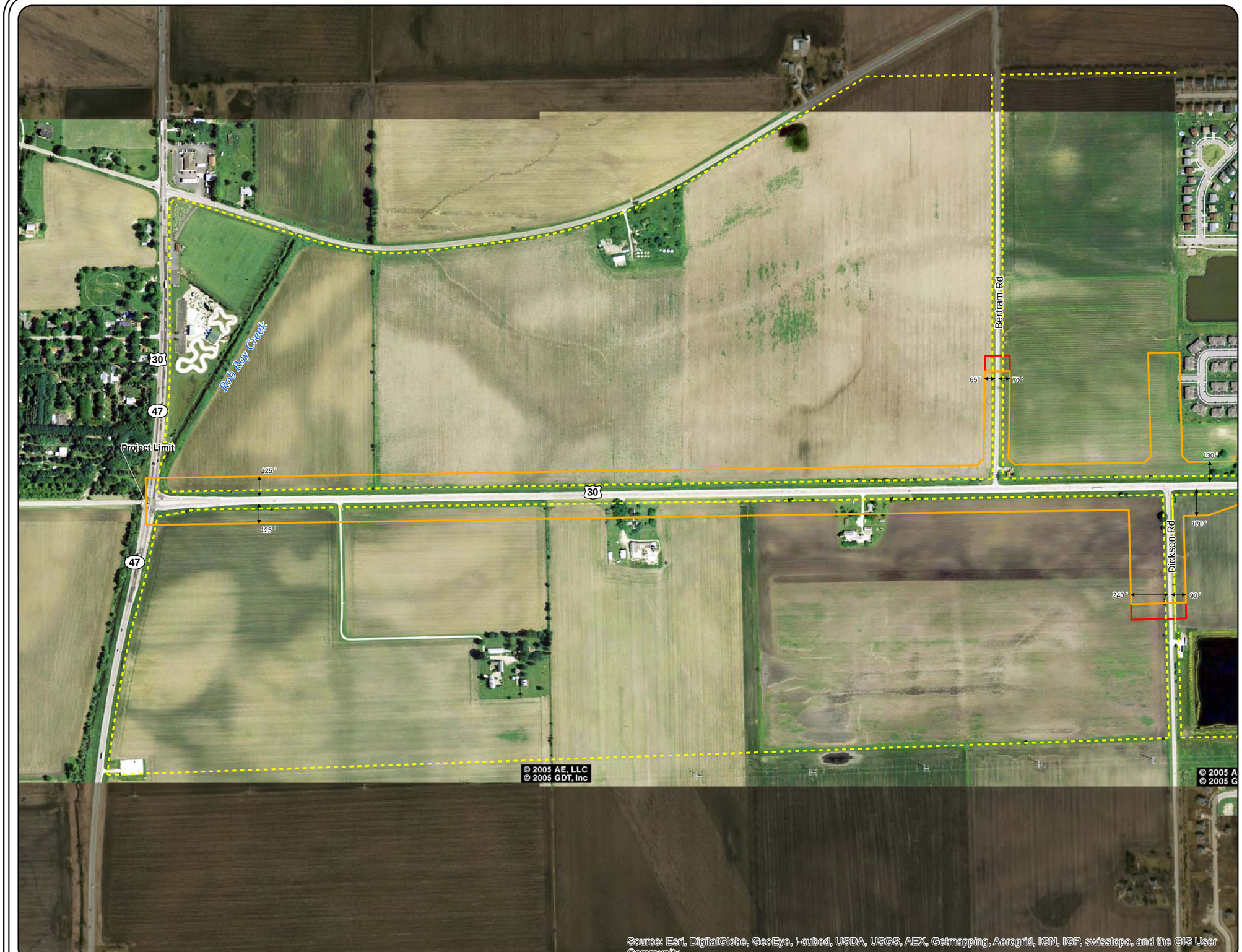
Photo 42A

Photo 43A

Photo 44A

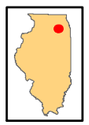
Photo 45A

Photo 46A



LEGEND

- Photo Log Number
- Existing ROW
- Original ESR Limits
- Additional ESR Limits



NORTH

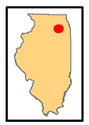
0 250 500 1,000
Feet

Exhibit 1 of 4

ESR Addendum A Photo Log
US 30 from Illinois 47 to Illinois 31
May 8, 2014
Kane and Kendall Counties

LEGEND

- Photo Log Number
- Existing ROW
- Original ESR Limits
- Additional ESR Limits



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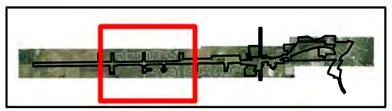
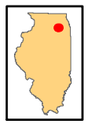


Exhibit 2 of 4

ESR Addendum A Photo Log
US 30 from Illinois 47 to Illinois 31
May 8, 2014
Kane and Kendall Counties

LEGEND

- Photo Log Number
- Existing ROW
- Original ESR Limits
- Additional ESR Limits



NORTH

0 250 500 1,000
Feet

Exhibit 3 of 4

ESR Addendum A Photo Log
US 30 from Illinois 47 to Illinois 31
May 8, 2014
Kane and Kendall Counties

LEGEND

- Photo Log Number
- Existing ROW
- Original ESR Limits
- Additional ESR Limits

NORTH

0 250 500 1,000
Feet

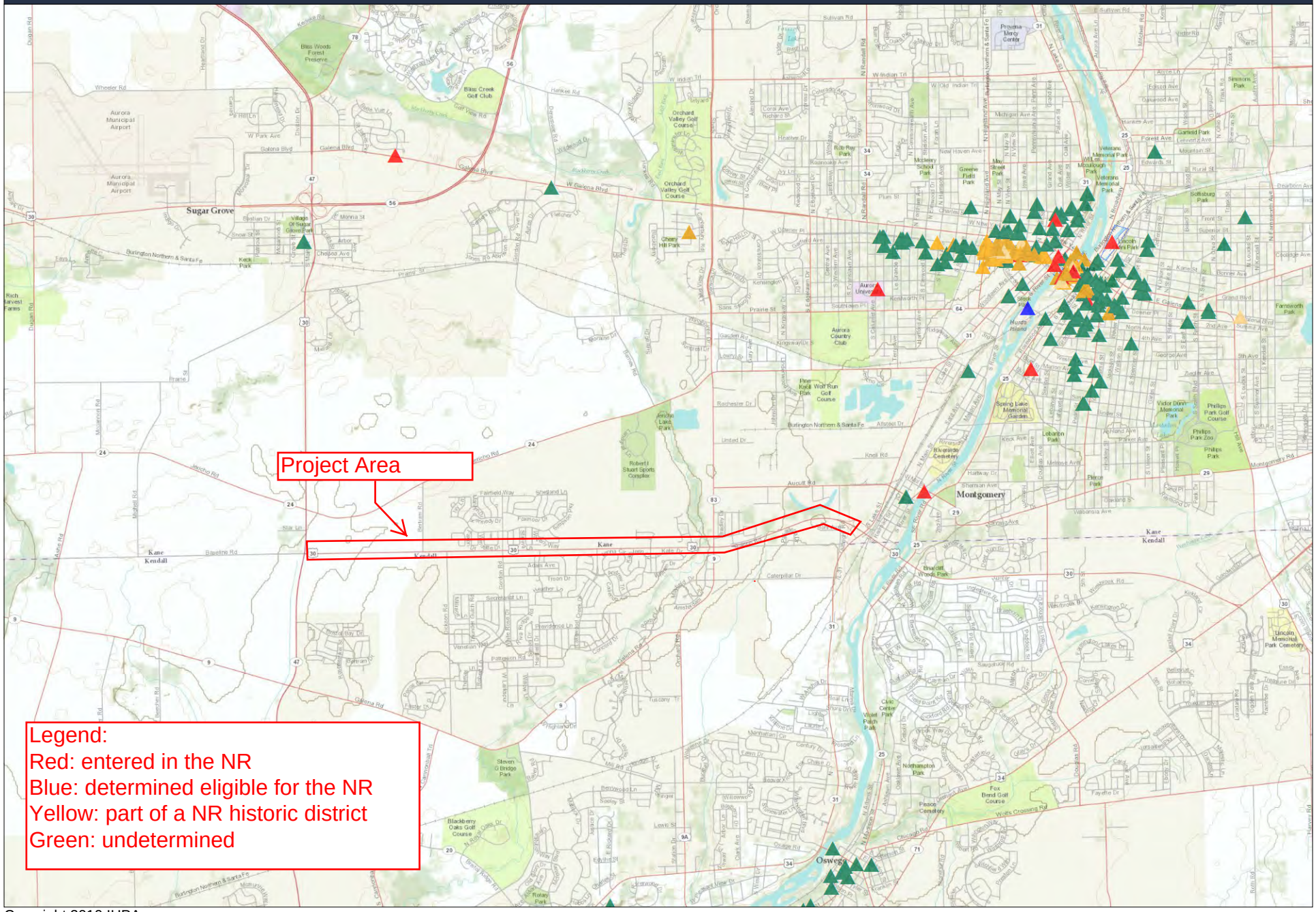
Exhibit 4 of 4

ESR Addendum A Photo Log
US 30 from Illinois 47 to Illinois 31
May 8, 2014
Kane and Kendall Counties

US 30 Baseline Rd: IL 47 to east of Albright Rd

Created 06/01/12 1:10 PM

Illinois Historic Preservation Agency



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