DEPARTMENT OF THE ARMY
U.S. ARMY CORPS OF ENGINEERS, ST. PAUL DISTRICT
180 FIFTH STREET EAST, SUITE 700
ST. PAUL, MN 55101-1678

December 20, 2019

Regulatory File No. MVP-2012-03481-ANM

American Transmission Company
Amy Lee
2485 Rinden Road
Cottage Grove, Wisconsin 53527

Dear Ms. Lee:

We are responding to your request for authorization to upgrade and construct approximately 53.4 miles of a new 345-kilovolt transmission line between the new Hill Valley Substation and Cardinal Substation for the Cardinal-Hickory Creek project. The proposed work is located in Grant, Iowa, and Dane Counties, Wisconsin.

Project authorization:

The regulated activities associated with this project include a permanent discharge of fill material within 0.01 acre of wetland and a temporary discharge of fill material within 7.80 acres of wetland, as shown on the enclosed figures labeled MVP-2012-03481-ANM Figures 1-35. As indicated on the figures, the overall project consists of 34 single and complete linear projects. Regulated activities associated with all of the single and complete linear projects require verification prior to starting work. We have verified that the regulated activities are authorized by the Utilty Regional General Permit (RGP).

Your project exceeds the limitations established in the general permit related to duration of temporary impacts needed for timber matting. However, these areas will be restored as quickly as possible upon completion of construction. Based on a case-specific review, we have determined the proposed activity will result in no more than minimal adverse effects and a waiver has been granted.

Conditions of your permit:

You must ensure the authorized work is performed in accordance with the enclosed General Permit terms and General Conditions.

You are also required to complete and return the enclosed Compliance Certification form within 30 days of completing your project. Please email the completed form to the contact identified in the last paragraph.

A change in location or project plans may require re-evaluation of your project. Proposed changes should be coordinated with this office prior to construction. Failure to comply with all terms and conditions of this permit invalidates this authorization and could result in a violation of Section 301 of the Clean Water Act or Section 10 of the Rivers and Harbors Act. You must also obtain all local, State, and other Federal permits that apply to this project.

Water Quality Certification:

You must also comply with the enclosed Water Quality Certification conditions associated with this General Permit.

Permit expiration:

This permit is valid until February 20, 2023 unless the general permit is modified, suspended, or revoked. If the work has not been completed by that time, you should contact this office to verify that the permit is still valid. Furthermore, if you commence or are under contract to commence this activity before the date of General Permit expiration, modification, or revocation, you have 12 months to complete the activity under the present terms and conditions of the General Permit.

Jurisdictional determination:

No jurisdictional determination was requested or prepared for this project. While not required, you may request a jurisdictional determination from the contact identified in the last paragraph.

Contact Information:

If you have any questions, please contact April Marcangeli in our Brookfield office at (651) 290-5731 or by email at April.N.Marcangeli@usace.army.mil.

Sincerely,

Desiree Morningstar
Chief, Technical Services Section

Enclosures
CC: Justin Funk, Stantec
Geri Radermacher, WDNR (IP-SC-2019-25-03588)

RICHLAND COUNTY

SAUK COUNTY

GRANT COUNTY

IOWA COUNTY

DANE COUNTY

GREEN COUNTY

Legend

- Ordered Route
- Off-ROW Access
- Page Extent Index

0 1.5 3
Miles

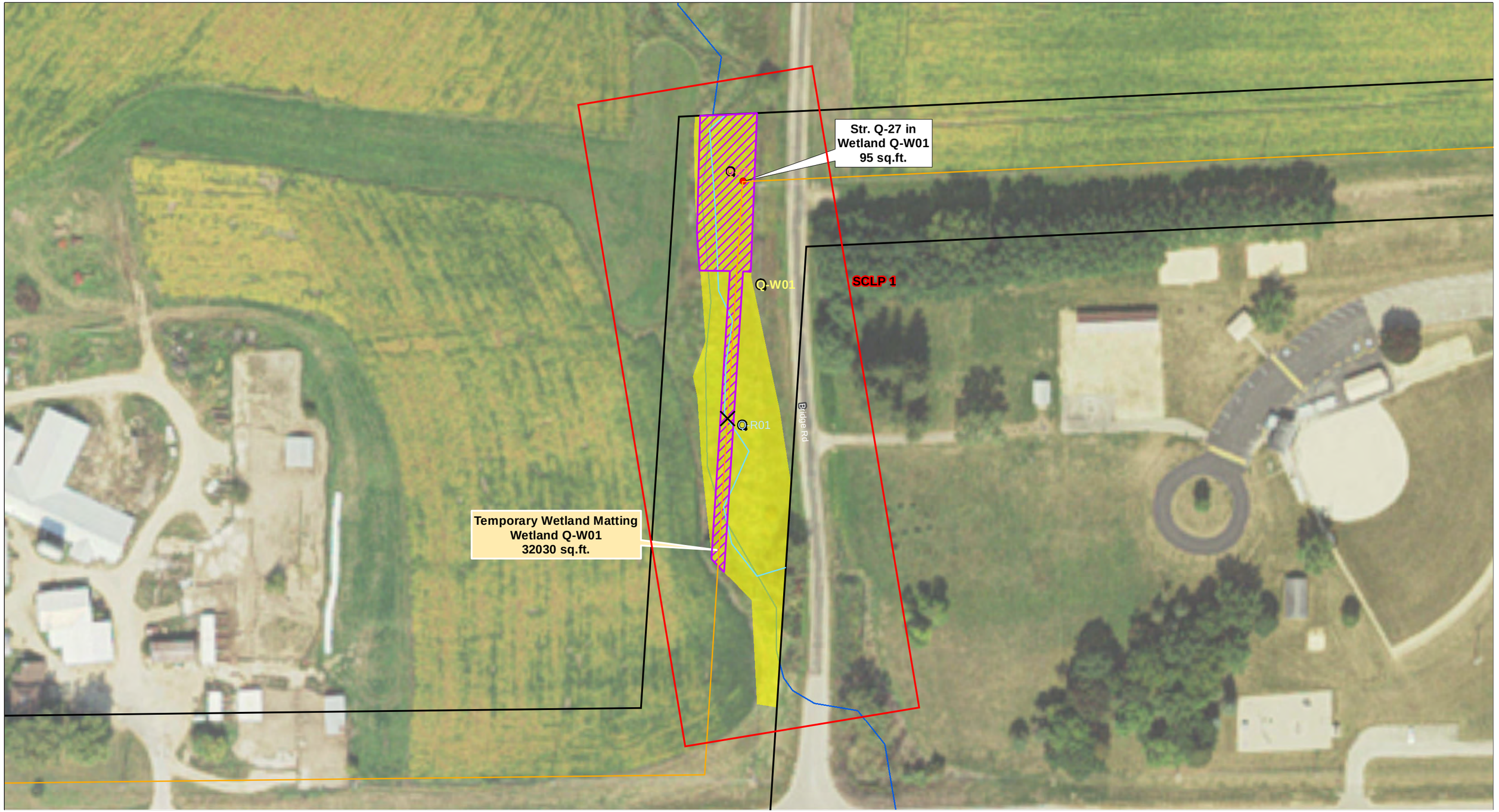
The information presented in this map document is advisory and is intended for reference purposes only. Applicant owned and operated facility locations are approximate. Data Sources: ATC, ITC, DPC, WDNR, WisDOT, PSCW, County LIOs.

Figure 1. Hill Valley - Cardinal Wetland Impacts Page Index

CARDINAL-HICKORY CREEK TRANSMISSION LINE PROJECT

AUGUST 2019		PAGE 1 OF 1

HILL VALLEY - CARDINAL
PREFERRED ROUTE WETLANDS



Legend

- Segment Node
- Structure in Wetland
- Ordered Route; WisDOT Modification
- Thomas Option 1; Thomas Option 2
- Project ROW
- Route Options
- Off-ROW Access
- TCSB
- Single Complete Linear Project
- Assumed Location of Construction Matting Within and Adjacent to Wetlands
- Assumed Location of Wetland Conversion (forested and shrub)
- Delineated Waterway
- Waterway - Navigability Determination Pending
- Open Water
- Delineated Wetlands

DNR 24k Hydrography

- Perennial Stream
- Intermittent Stream
- Waterbody

N

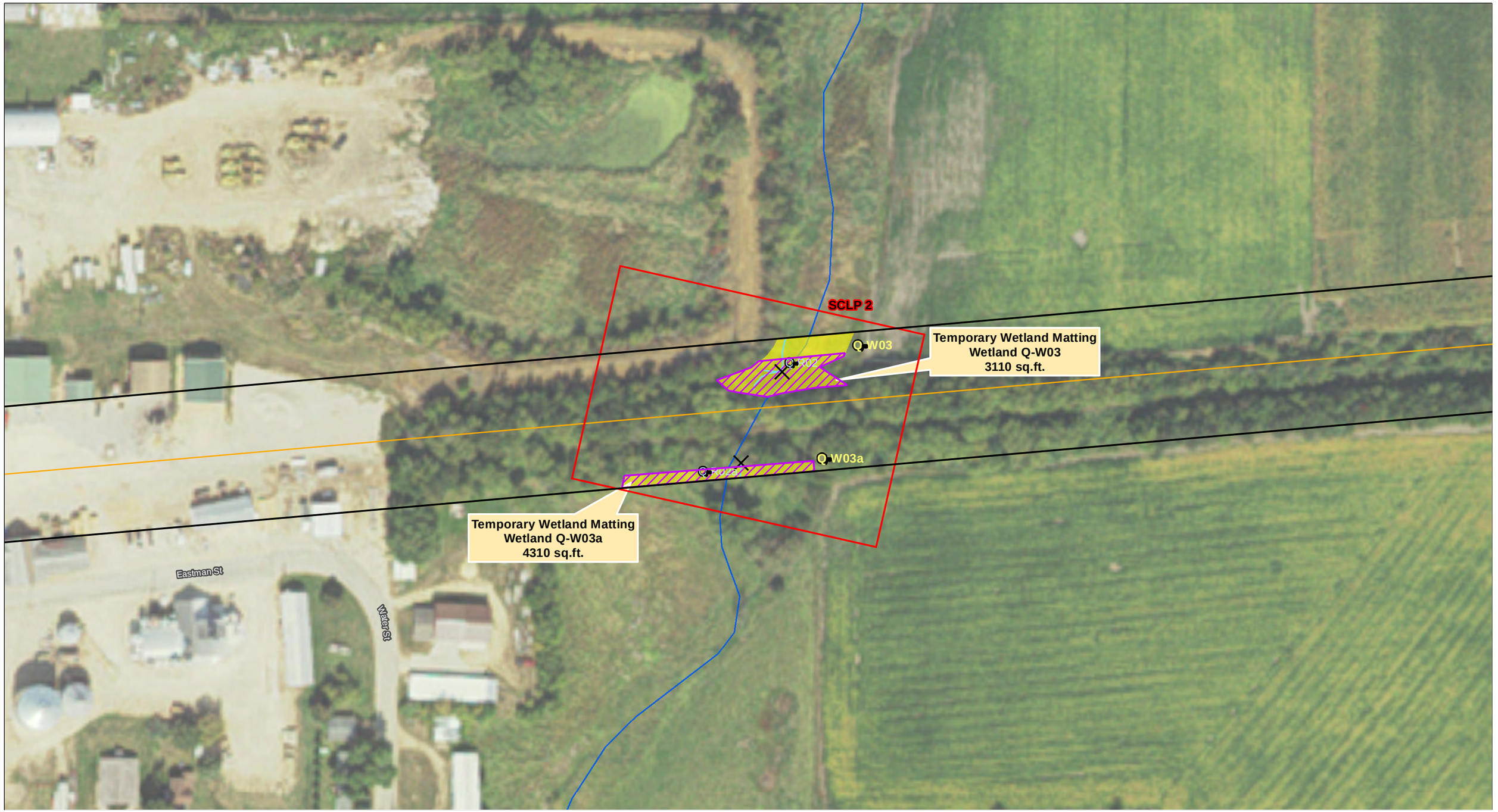
0 50 100
Feet

Figure 3. Hill Valley - Cardinal Wetland Impacts Plan Sheet for SCLP 1

CARDINAL-HICKORY CREEK TRANSMISSION LINE PROJECT

OCTOBER 2019		PAGE 1 OF 1

HILL VALLEY - CARDINAL
WETLAND IMPACTS PLAN SHEET



Legend

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DNR 24k Hydrography

- Perennial Stream
- Intermittent Stream
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N

0 50 100

Feet

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Figure 3. Hill Valley - Cardinal Wetland Impacts Plan Sheet for SCLP 2

CARDINAL-HICKORY CREEK TRANSMISSION LINE PROJECT

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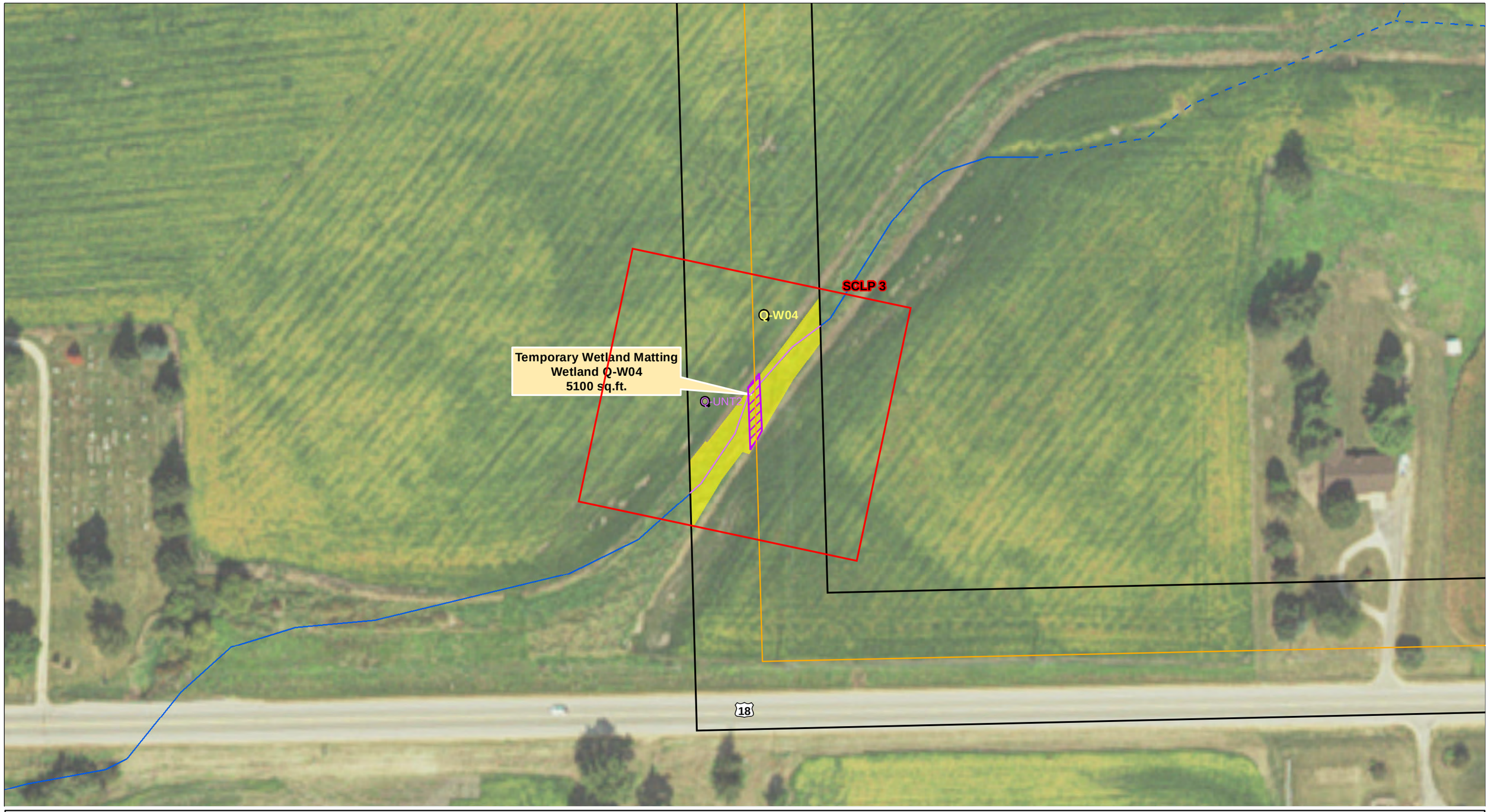
HILL VALLEY - CARDINAL
WETLAND IMPACTS PLAN SHEET



Legend

- Segment Node
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- Open Water
- Delineated Wetlands

DNR 24k Hydrography

- Perennial Stream
- Intermittent Stream
- Waterbody

N

0 50 100
Feet

Figure 3. Hill Valley - Cardinal Wetland Impacts Plan Sheet for SCLP 3

CARDINAL-HICKORY CREEK TRANSMISSION LINE PROJECT

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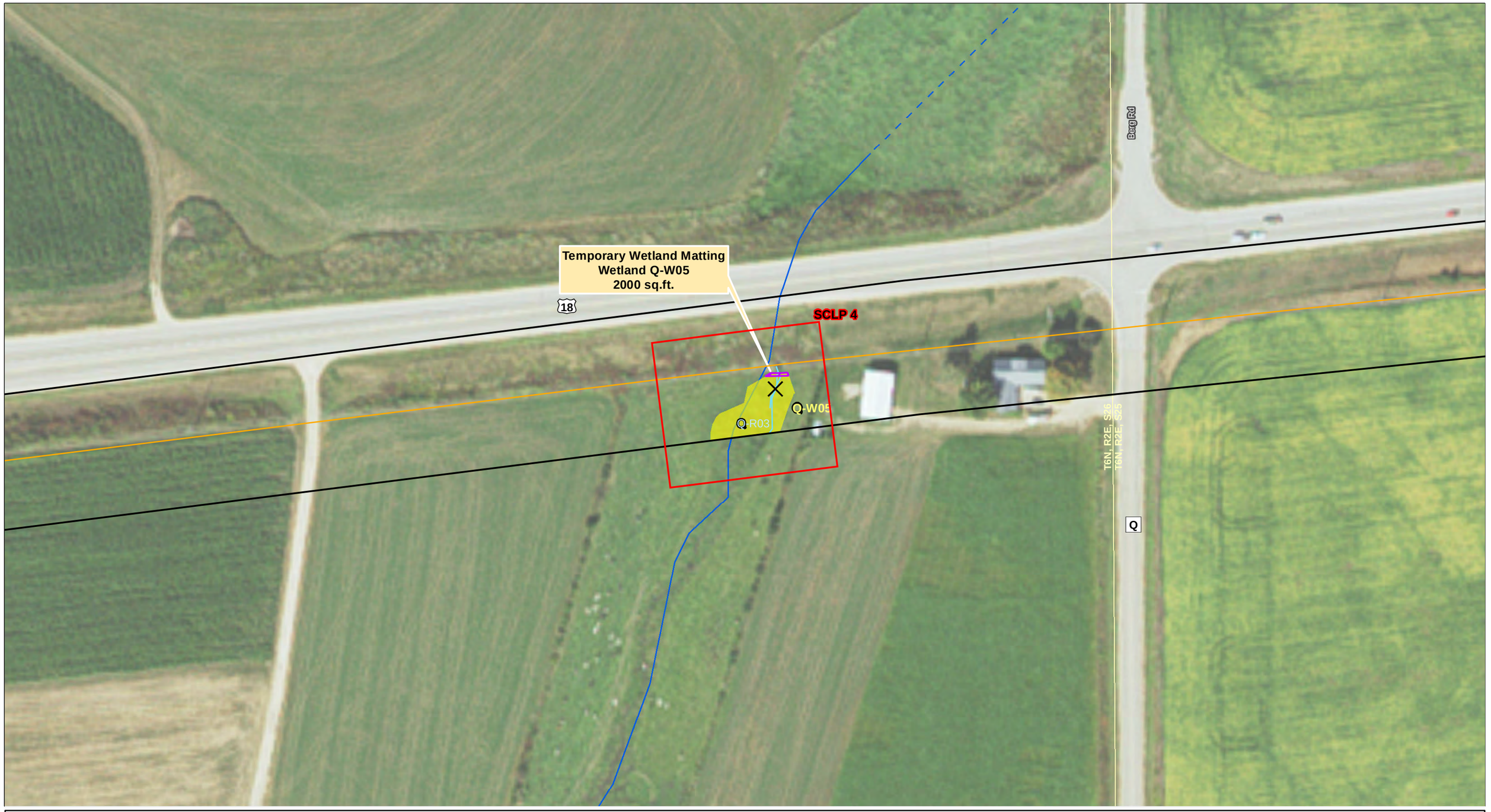
HILL VALLEY - CARDINAL
WETLAND IMPACTS PLAN SHEET



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- Segment Node
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DNR 24k Hydrography

- Perennial Stream
- Intermittent Stream
- Waterbody

N

0 50 100
Feet

ATC AMERICAN TRANSMISSION COMPANY · ITC · DAIRYLAND POWER COOPERATIVE

Figure 3. Hill Valley - Cardinal Wetland Impacts Plan Sheet for SCLP 4

CARDINAL-HICKORY CREEK TRANSMISSION LINE PROJECT

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HILL VALLEY - CARDINAL
WETLAND IMPACTS PLAN SHEET

T6N, R3E, S20
T6N, R3E, S29

18

SCLP 5

Temporary Wetland Matting
Wetland Q-W06
2310 sq.ft.

Q-W06

Q-R04

Legend

- Segment Node
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DNR 24k Hydrography
- Perennial Stream
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N

0 50 100
Feet

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Figure 3. Hill Valley - Cardinal Wetland Impacts Plan Sheet for SCLP 5

CARDINAL-HICKORY CREEK TRANSMISSION LINE PROJECT

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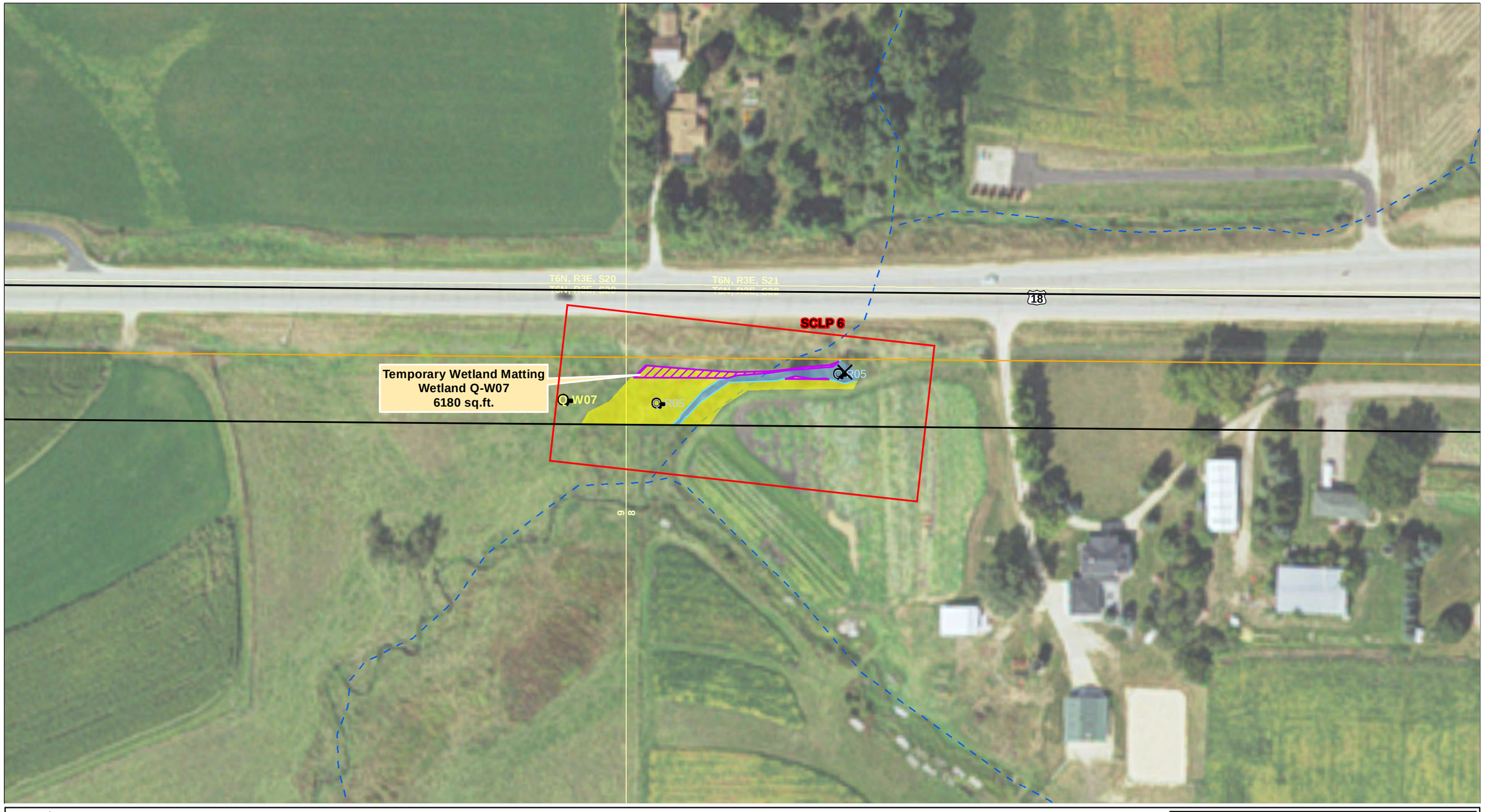
HILL VALLEY - CARDINAL
WETLAND IMPACTS PLAN SHEET



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DNR 24k Hydrography

- Perennial Stream
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0 50 100
Feet

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Figure 3. Hill Valley - Cardinal Wetland Impacts Plan Sheet for SCLP 6

CARDINAL-HICKORY CREEK TRANSMISSION LINE PROJECT

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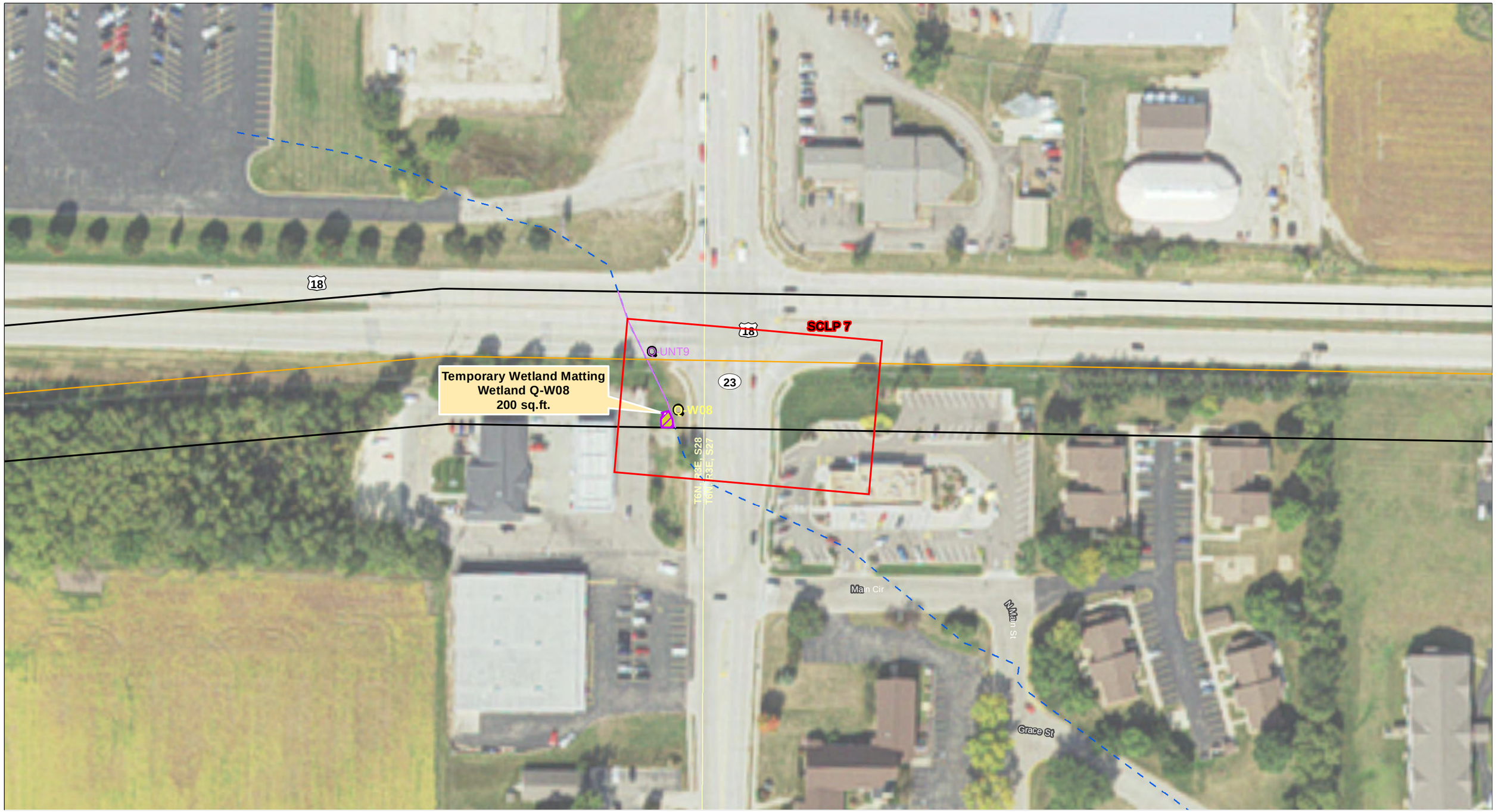
HILL VALLEY - CARDINAL
WETLAND IMPACTS PLAN SHEET



Legend

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DNR 24k Hydrography

- Perennial Stream
- Intermittent Stream
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0 50 100
Feet

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Figure 3. Hill Valley - Cardinal Wetland Impacts Plan Sheet for SCLP 7

CARDINAL-HICKORY CREEK TRANSMISSION LINE PROJECT

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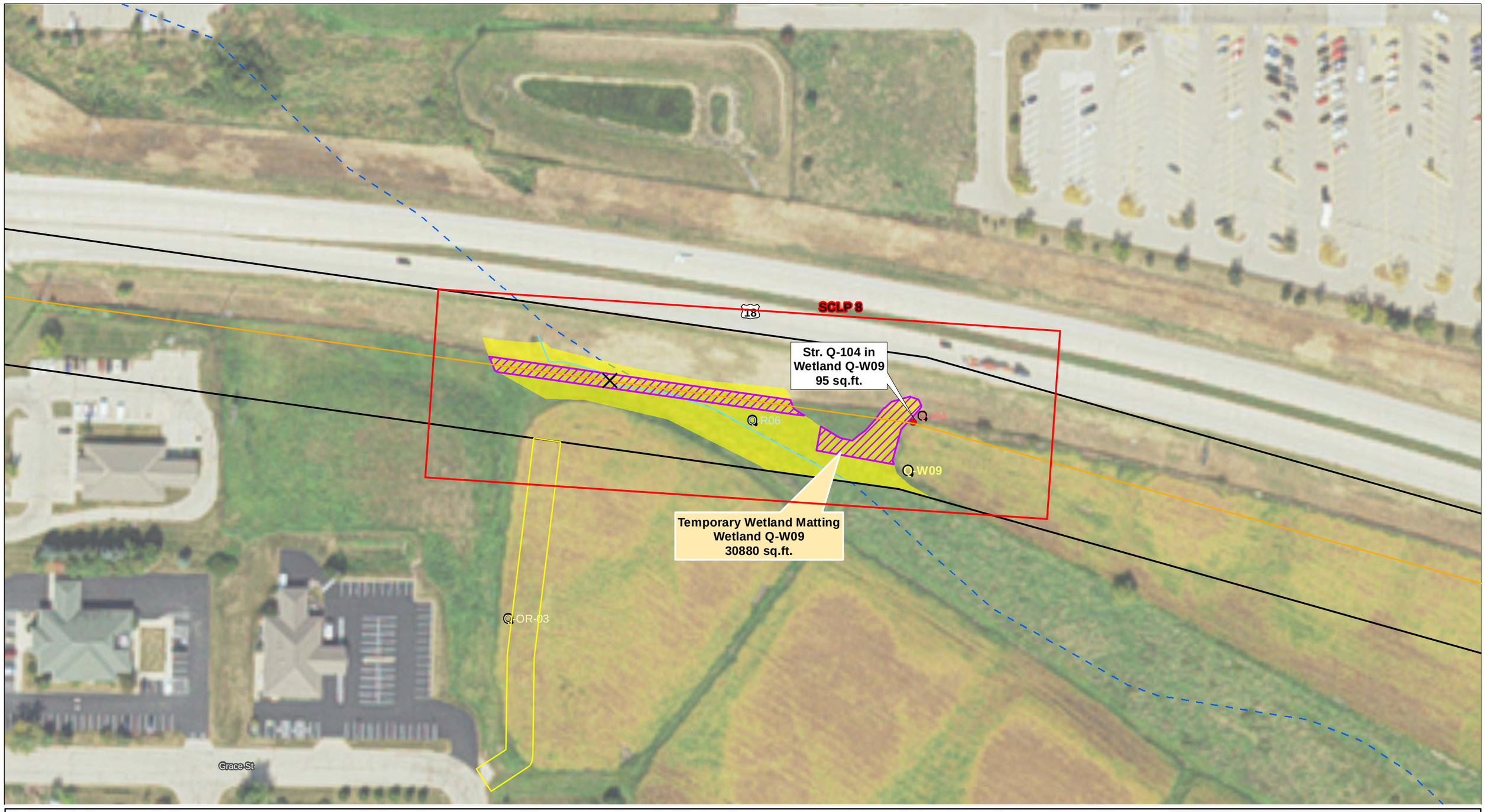
HILL VALLEY - CARDINAL
WETLAND IMPACTS PLAN SHEET



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0 50 100
Feet

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Figure 3. Hill Valley - Cardinal Wetland Impacts Plan Sheet for SCLP 8

CARDINAL-HICKORY CREEK TRANSMISSION LINE PROJECT

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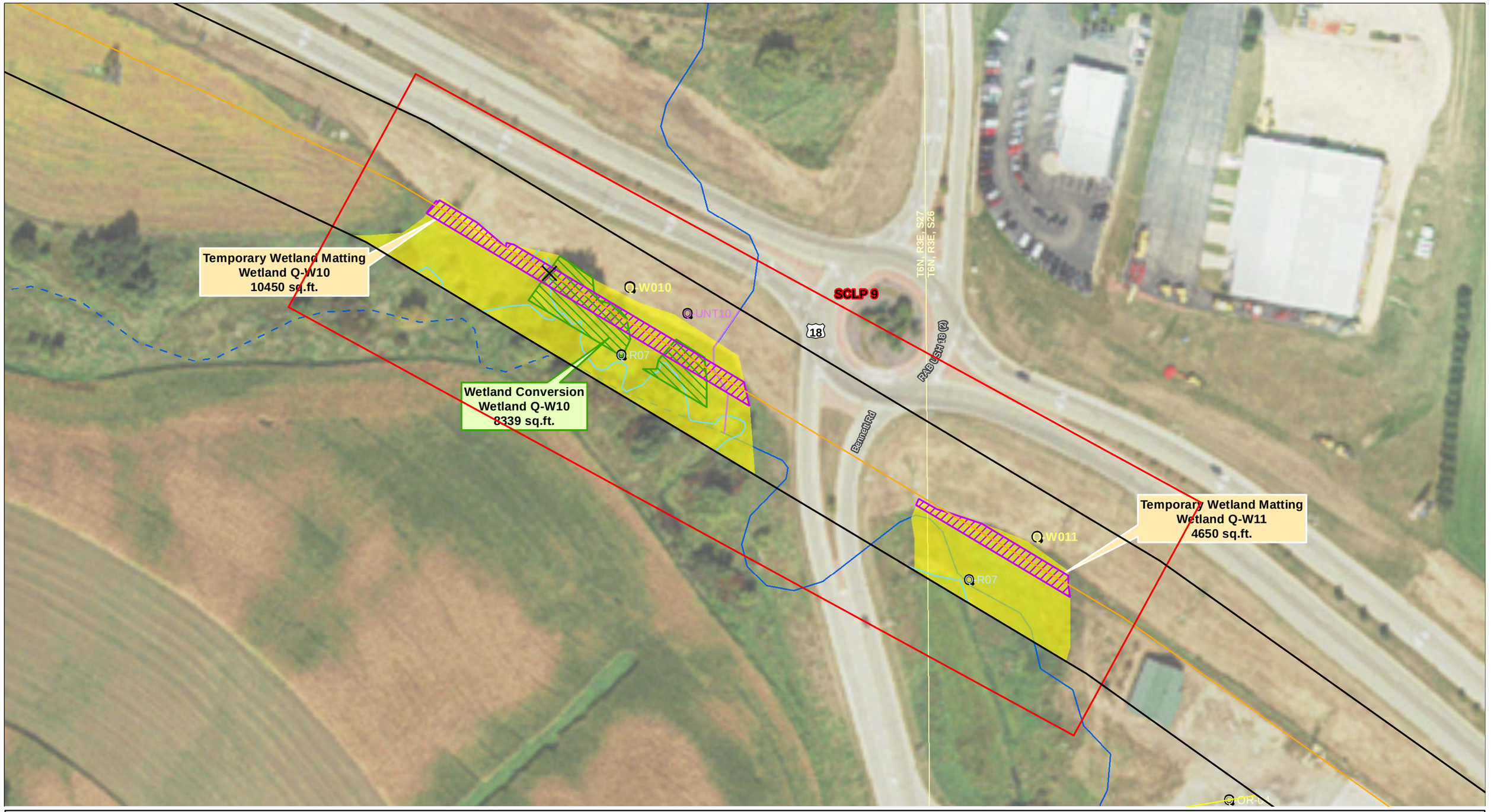
HILL VALLEY - CARDINAL
WETLAND IMPACTS PLAN SHEET



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- Waterbody

0 50 100
Feet

Figure 3. Hill Valley - Cardinal Wetland Impacts Plan Sheet for SCLP 9

CARDINAL-HICKORY CREEK TRANSMISSION LINE PROJECT

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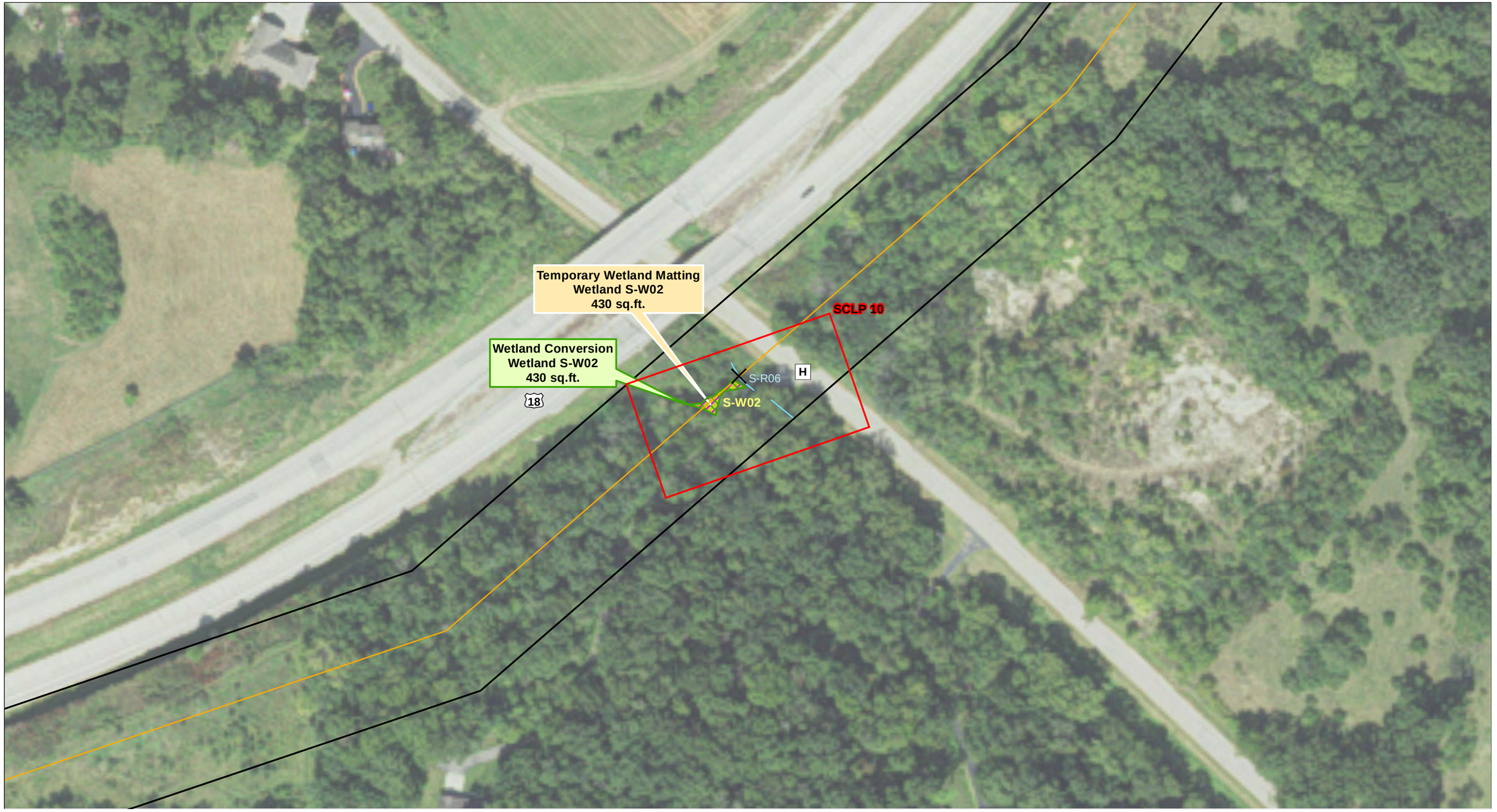
HILL VALLEY - CARDINAL
WETLAND IMPACTS PLAN SHEET



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DNR 24k Hydrography

- Perennial Stream
- Intermittent Stream
- Waterbody

N

0 50 100
Feet

Figure 3. Hill Valley - Cardinal Wetland Impacts Plan Sheet for SCLP 10

CARDINAL-HICKORY CREEK TRANSMISSION LINE PROJECT

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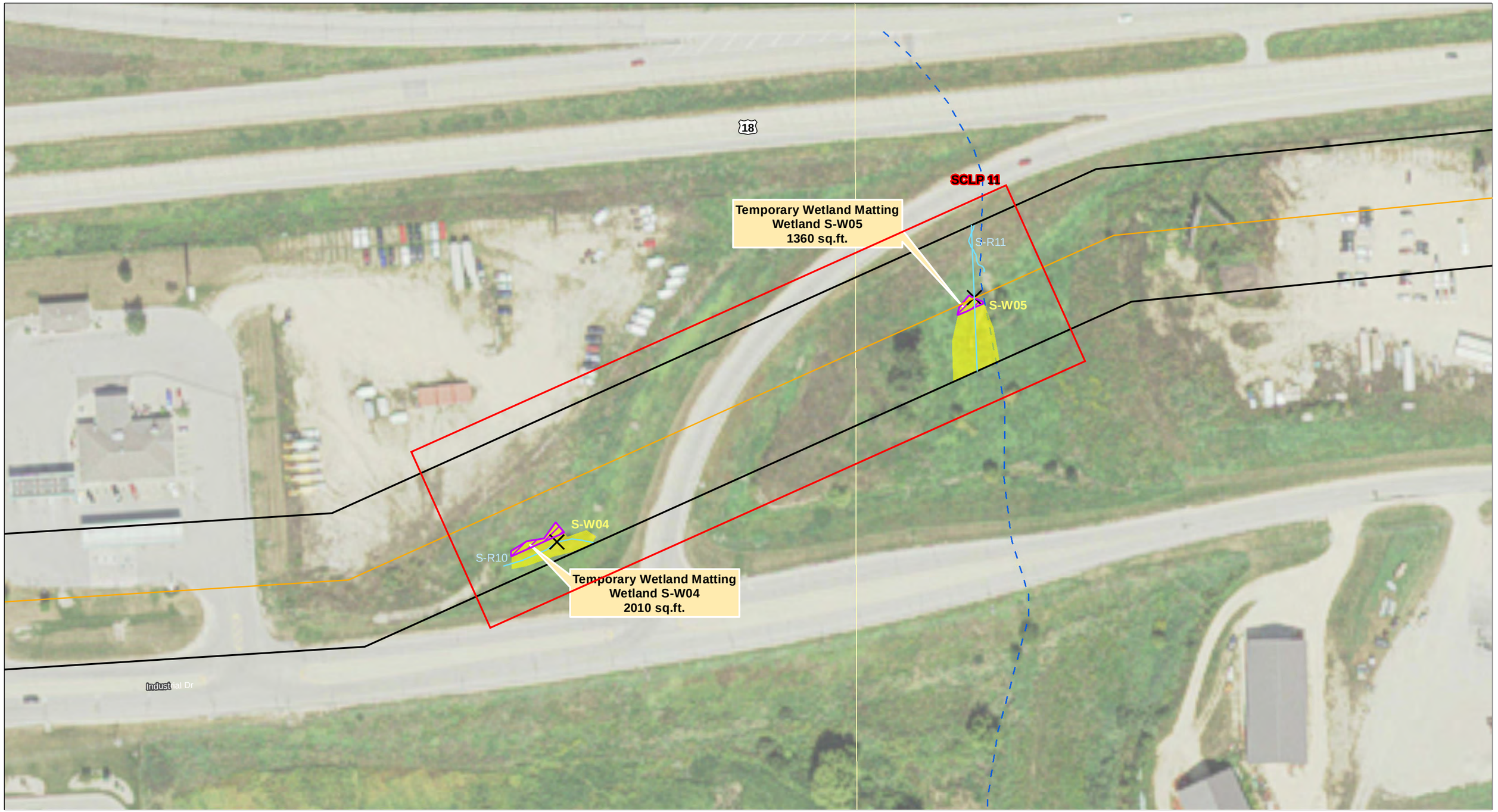
HILL VALLEY - CARDINAL
WETLAND IMPACTS PLAN SHEET



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DNR 24k Hydrography

- Perennial Stream
- Intermittent Stream
- Waterbody

N

0 50 100

Feet

Figure 3. Hill Valley - Cardinal Wetland Impacts Plan Sheet for SCLP 11

CARDINAL-HICKORY CREEK TRANSMISSION LINE PROJECT

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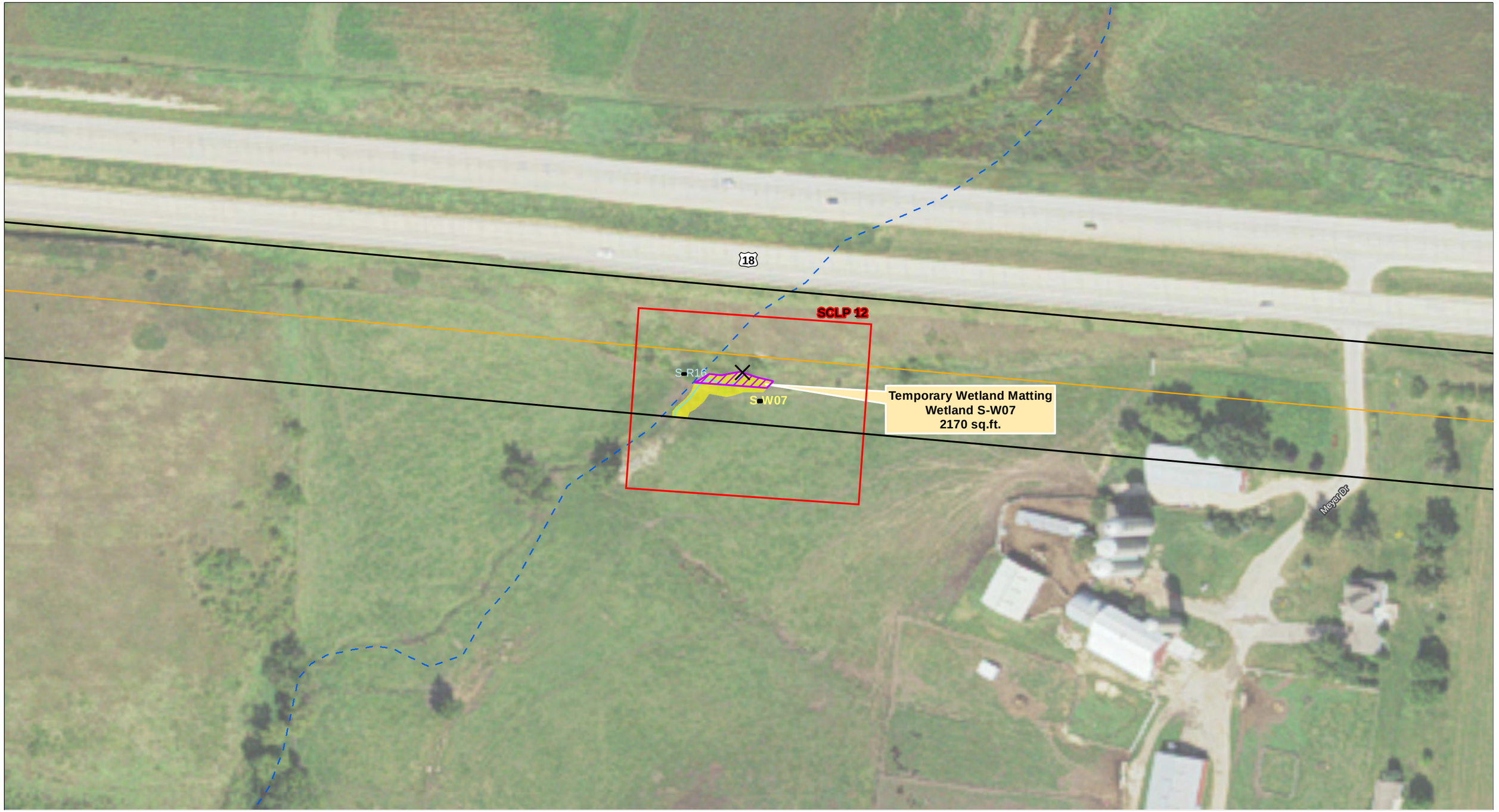
HILL VALLEY - CARDINAL
WETLAND IMPACTS PLAN SHEET



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- Segment Node
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DNR 24k Hydrography

- Perennial Stream
- Intermittent Stream
- Waterbody

0 50 100
Feet

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Figure 3. Hill Valley - Cardinal Wetland Impacts Plan Sheet for SCLP 12

CARDINAL-HICKORY CREEK TRANSMISSION LINE PROJECT

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HILL VALLEY - CARDINAL
WETLAND IMPACTS PLAN SHEET

Legend

- Segment Node
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DNR 24k Hydrography

- Perennial Stream
- Intermittent Stream
- Waterbody

0 50 100
Feet

Figure 3. Hill Valley - Cardinal Wetland Impacts Plan Sheet for SCLP 13

CARDINAL-HICKORY CREEK TRANSMISSION LINE PROJECT

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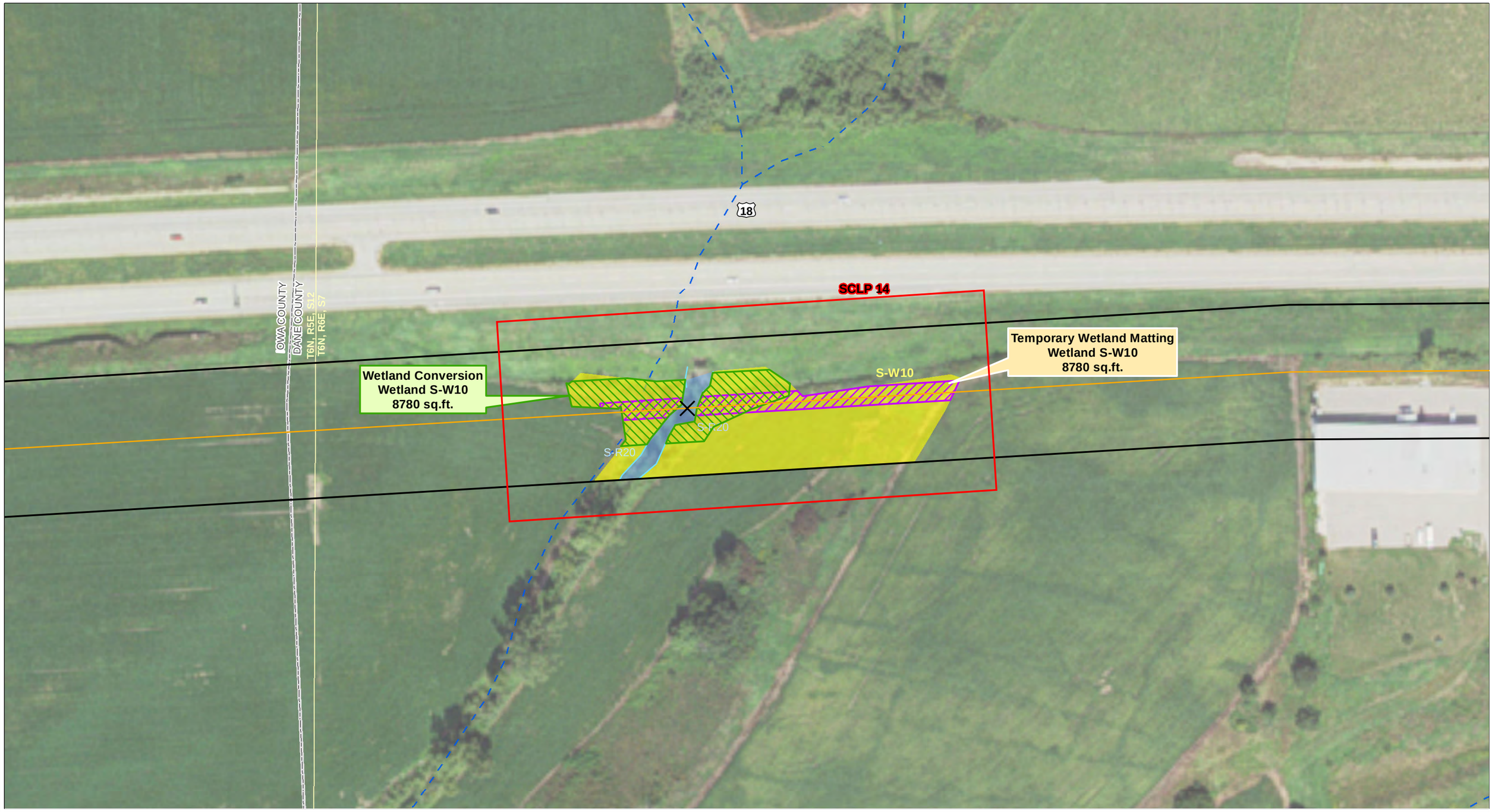
HILL VALLEY - CARDINAL
WETLAND IMPACTS PLAN SHEET



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DNR 24k Hydrography

- Perennial Stream
- Intermittent Stream
- Waterbody

N

0 50 100
Feet

ATC AMERICAN TRANSMISSION COMPANY | ITC | DAIRYLAND POWER COOPERATIVE

Figure 3. Hill Valley - Cardinal Wetland Impacts Plan Sheet for SCLP 14

CARDINAL-HICKORY CREEK TRANSMISSION LINE PROJECT

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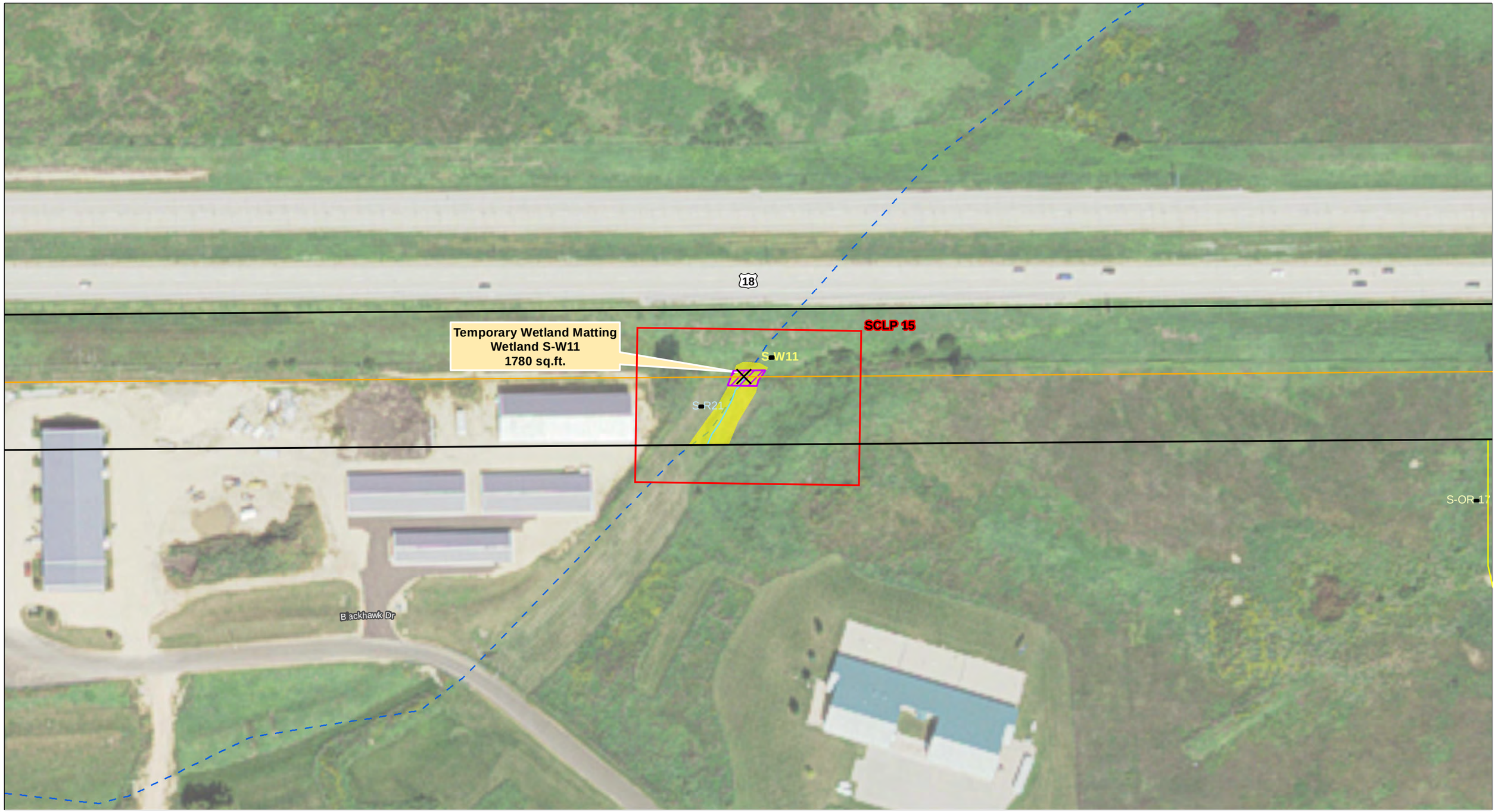
HILL VALLEY - CARDINAL
WETLAND IMPACTS PLAN SHEET



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DNR 24k Hydrography

- Perennial Stream
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- Waterbody

N

0 50 100
Feet

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Figure 3. Hill Valley - Cardinal Wetland Impacts Plan Sheet for SCLP 15

CARDINAL-HICKORY CREEK TRANSMISSION LINE PROJECT

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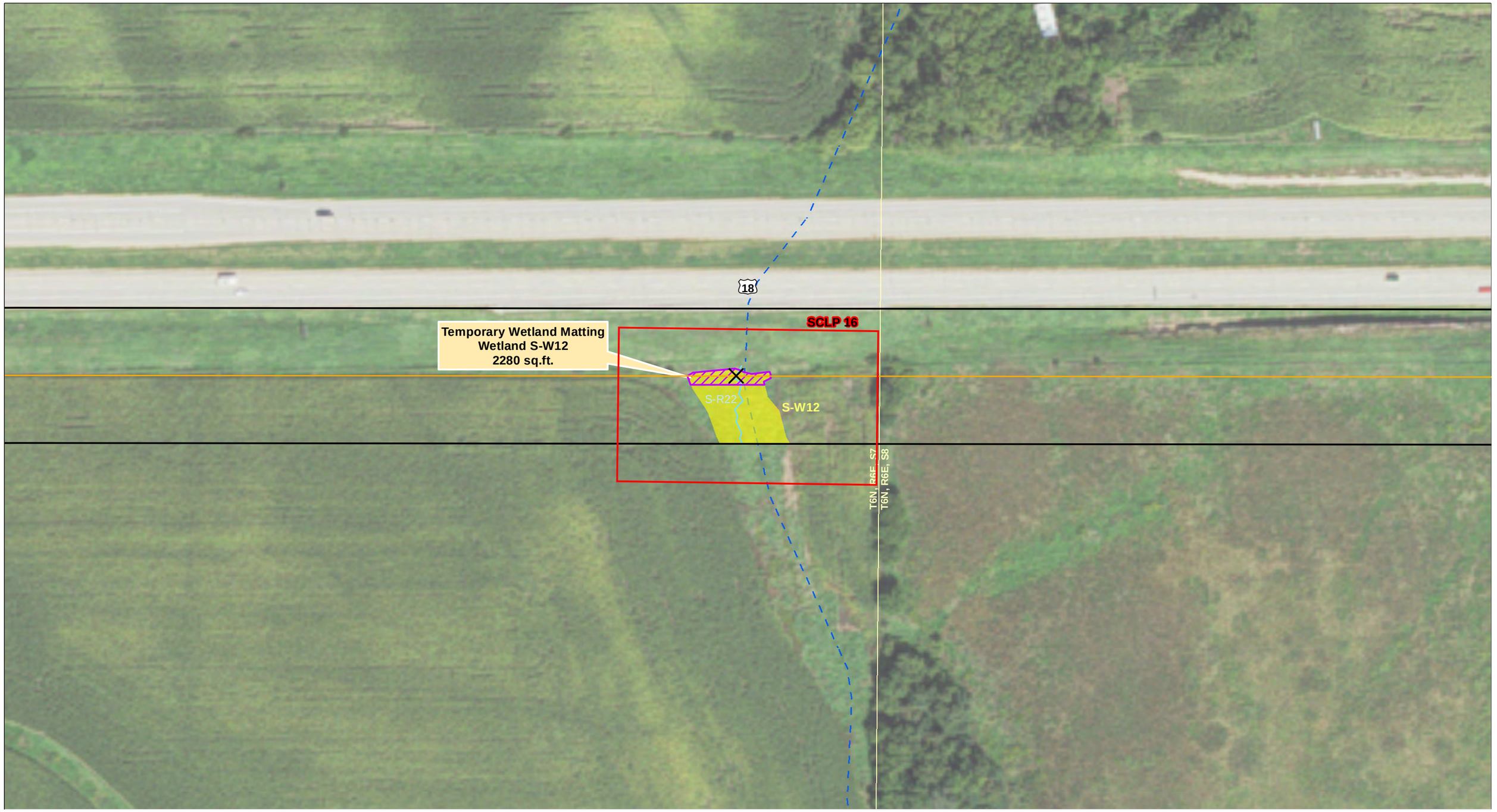
HILL VALLEY - CARDINAL
WETLAND IMPACTS PLAN SHEET



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DNR 24k Hydrography

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N

0 50 100
Feet

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Figure 3. Hill Valley - Cardinal Wetland Impacts Plan Sheet for SCLP 16

CARDINAL-HICKORY CREEK TRANSMISSION LINE PROJECT

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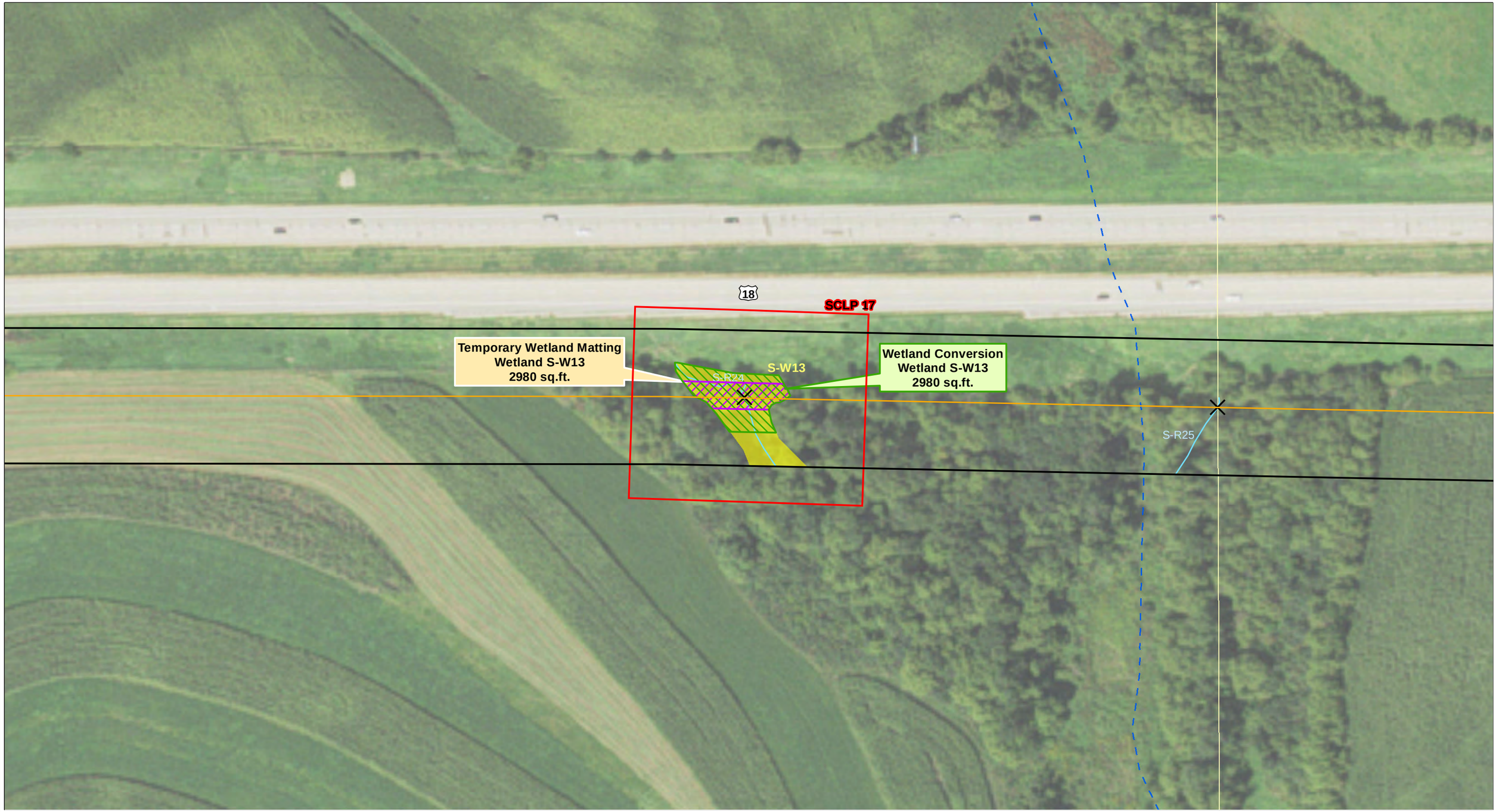
HILL VALLEY - CARDINAL
WETLAND IMPACTS PLAN SHEET



Legend

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DNR 24k Hydrography

- Perennial Stream
- Intermittent Stream
- Waterbody

N

0 50 100

Feet

Figure 3. Hill Valley - Cardinal Wetland Impacts Plan Sheet for SCLP 17

CARDINAL-HICKORY CREEK TRANSMISSION LINE PROJECT

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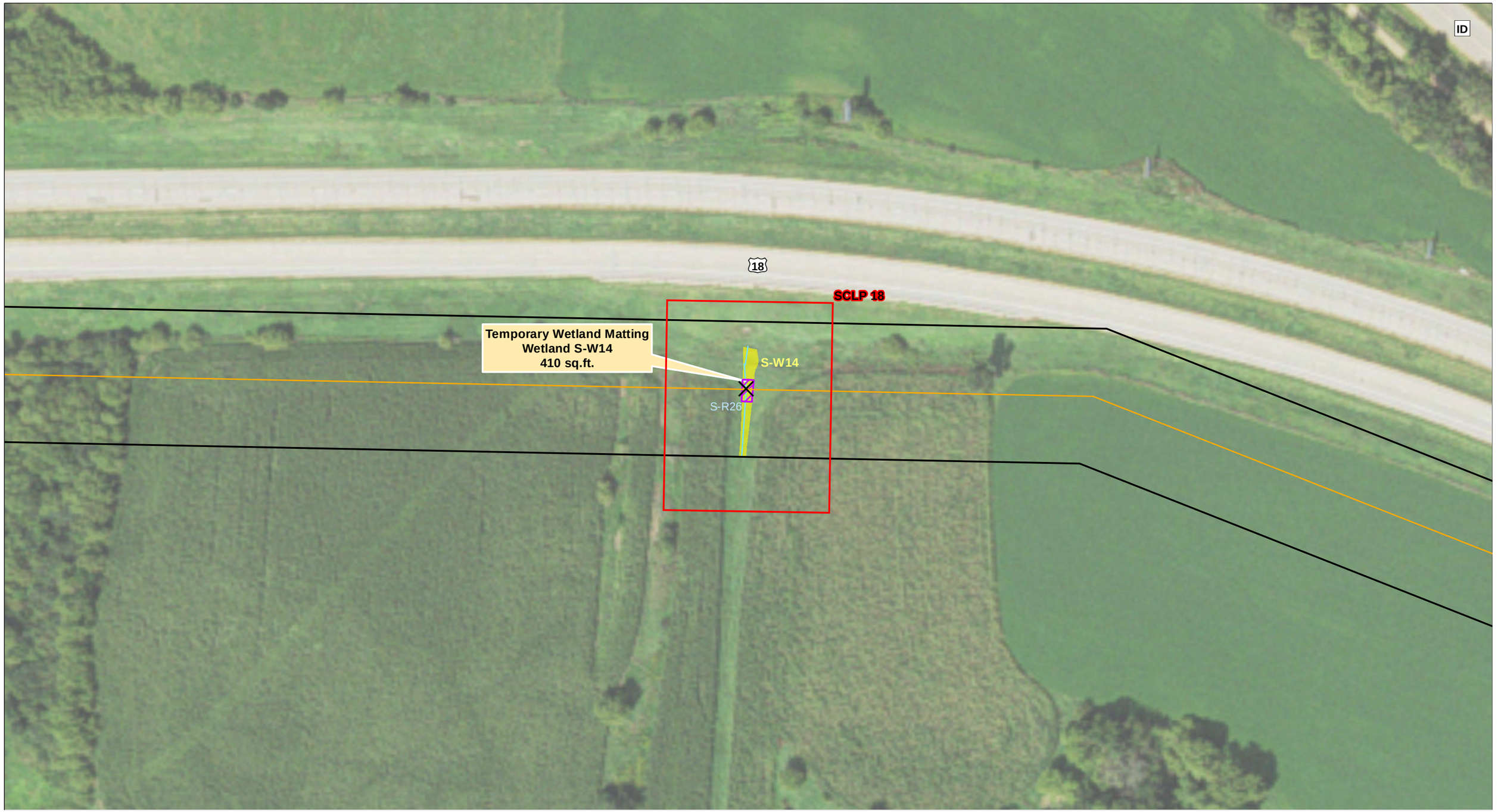
HILL VALLEY - CARDINAL
WETLAND IMPACTS PLAN SHEET



Legend

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DNR 24k Hydrography

- Perennial Stream
- Intermittent Stream
- Waterbody

N

0 50 100

Feet

Figure 3. Hill Valley - Cardinal Wetland Impacts Plan Sheet for SCLP 18

CARDINAL-HICKORY CREEK TRANSMISSION LINE PROJECT

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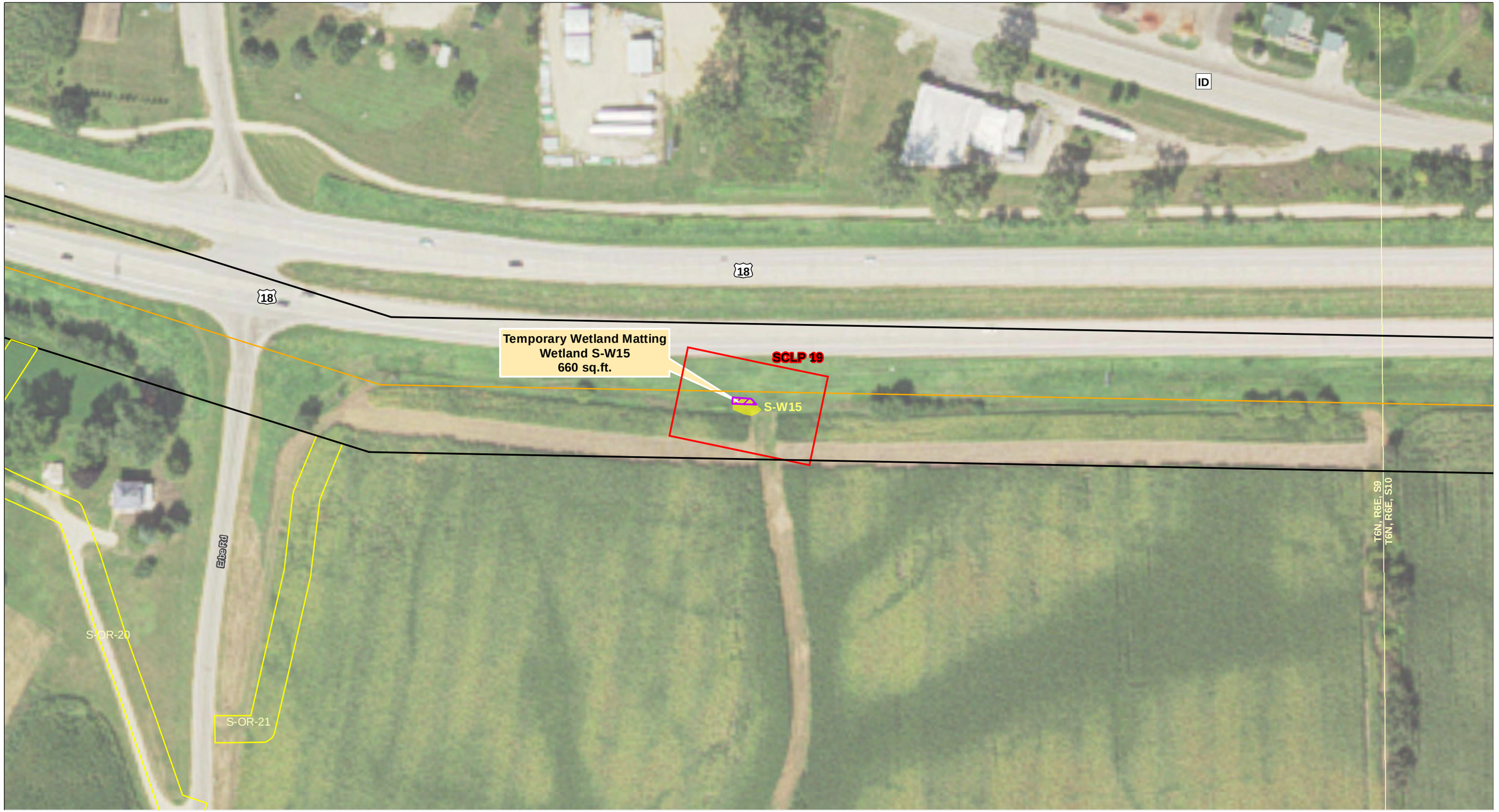
HILL VALLEY - CARDINAL
WETLAND IMPACTS PLAN SHEET



Legend

- Segment Node
- Structure in Wetland
- Ordered Route; WisDOT Modification
- Thomas Option 1; Thomas Option 2
- Project ROW
- Route Options
- Off-ROW Access
- TCSB
- Single Complete Linear Project
- Assumed Location of Construction Matting Within and Adjacent to Wetlands
- Assumed Location of Wetland Conversion (forested and shrub)
- Delineated Waterway
- Waterway - Navigability Determination Pending
- Open Water
- Delineated Wetlands

DNR 24k Hydrography

- Perennial Stream
- Intermittent Stream
- Waterbody

N

0 50 100
Feet

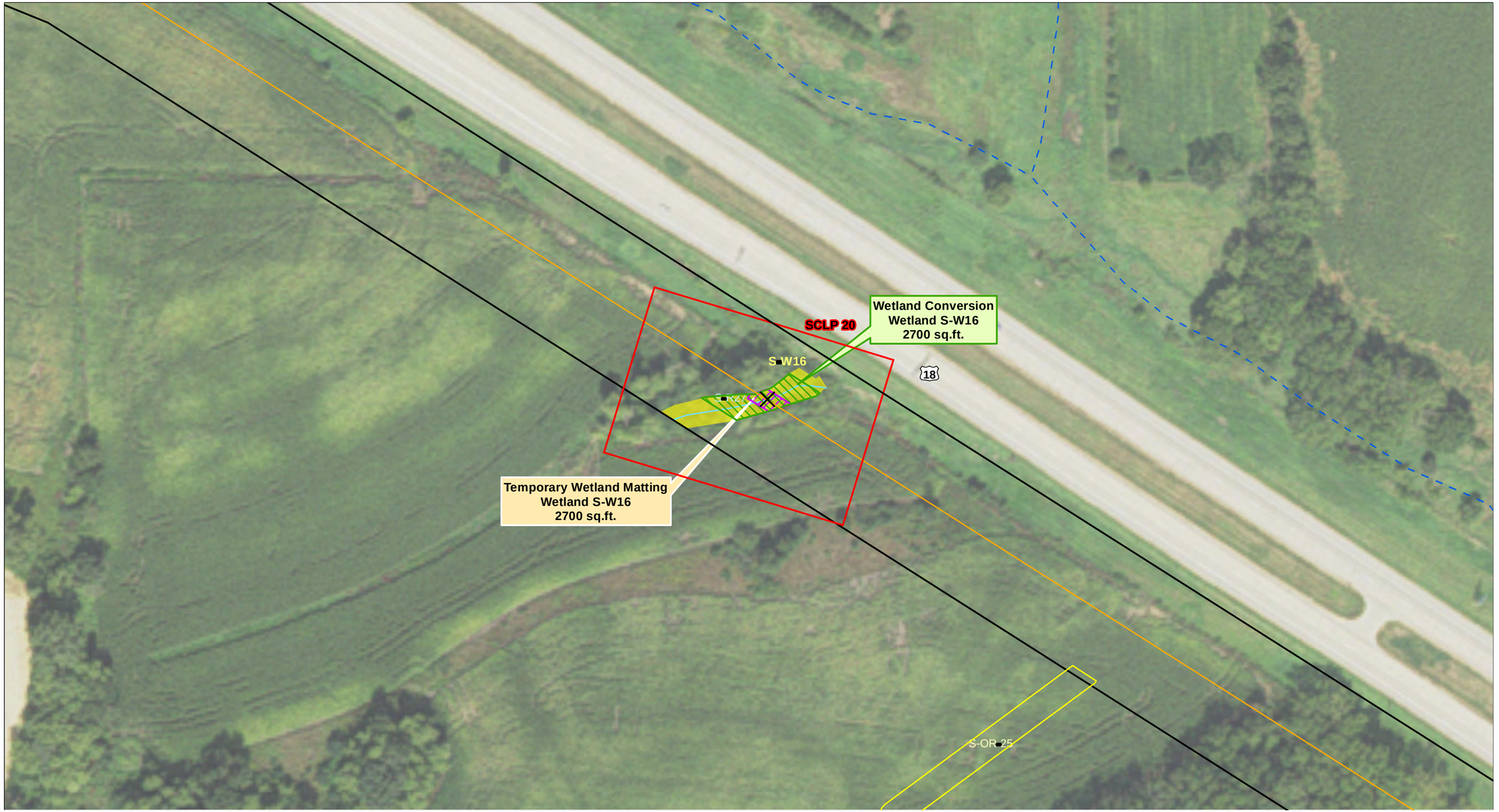
The information presented in this map document is advisory and is intended for reference purposes only. Applicant owned and operated facility locations are approximate. Data Sources: ATC, ITC, DPC, WDNR, WisDOT, PSCW, County LIOs.

Figure 3. Hill Valley - Cardinal Wetland Impacts Plan Sheet for SCLP 19

CARDINAL-HICKORY CREEK TRANSMISSION LINE PROJECT

OCTOBER 2019		PAGE 1 OF 1

HILL VALLEY - CARDINAL
WETLAND IMPACTS PLAN SHEET



Legend

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DNR 24k Hydrography

- Perennial Stream
- Intermittent Stream
- Waterbody

N

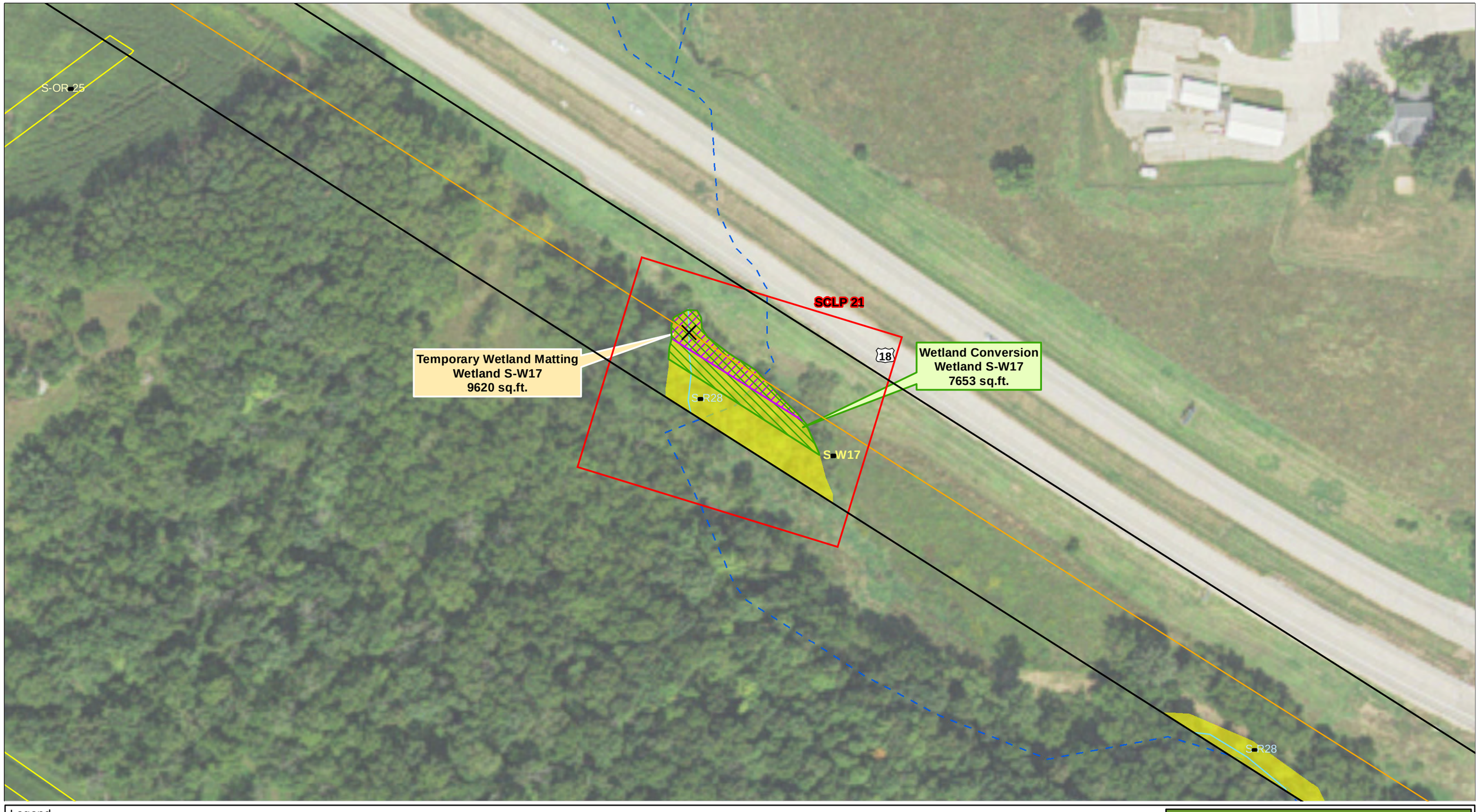
0 50 100
Feet

Figure 3. Hill Valley - Cardinal Wetland Impacts Plan Sheet for SCLP 20

CARDINAL-HICKORY CREEK TRANSMISSION LINE PROJECT

OCTOBER 2019		PAGE 1 OF 1

HILL VALLEY - CARDINAL
WETLAND IMPACTS PLAN SHEET



Legend

- Segment Node
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- Project ROW
- Route Options
- Off-ROW Access
- TCSB
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- Waterway - Navigability Determination Pending
- Open Water
- Delineated Wetlands

DNR 24k Hydrography

- Perennial Stream
- Intermittent Stream
- Waterbody

N

0 50 100
Feet

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Figure 3. Hill Valley - Cardinal Wetland Impacts Plan Sheet for SCLP 21

CARDINAL-HICKORY CREEK TRANSMISSION LINE PROJECT

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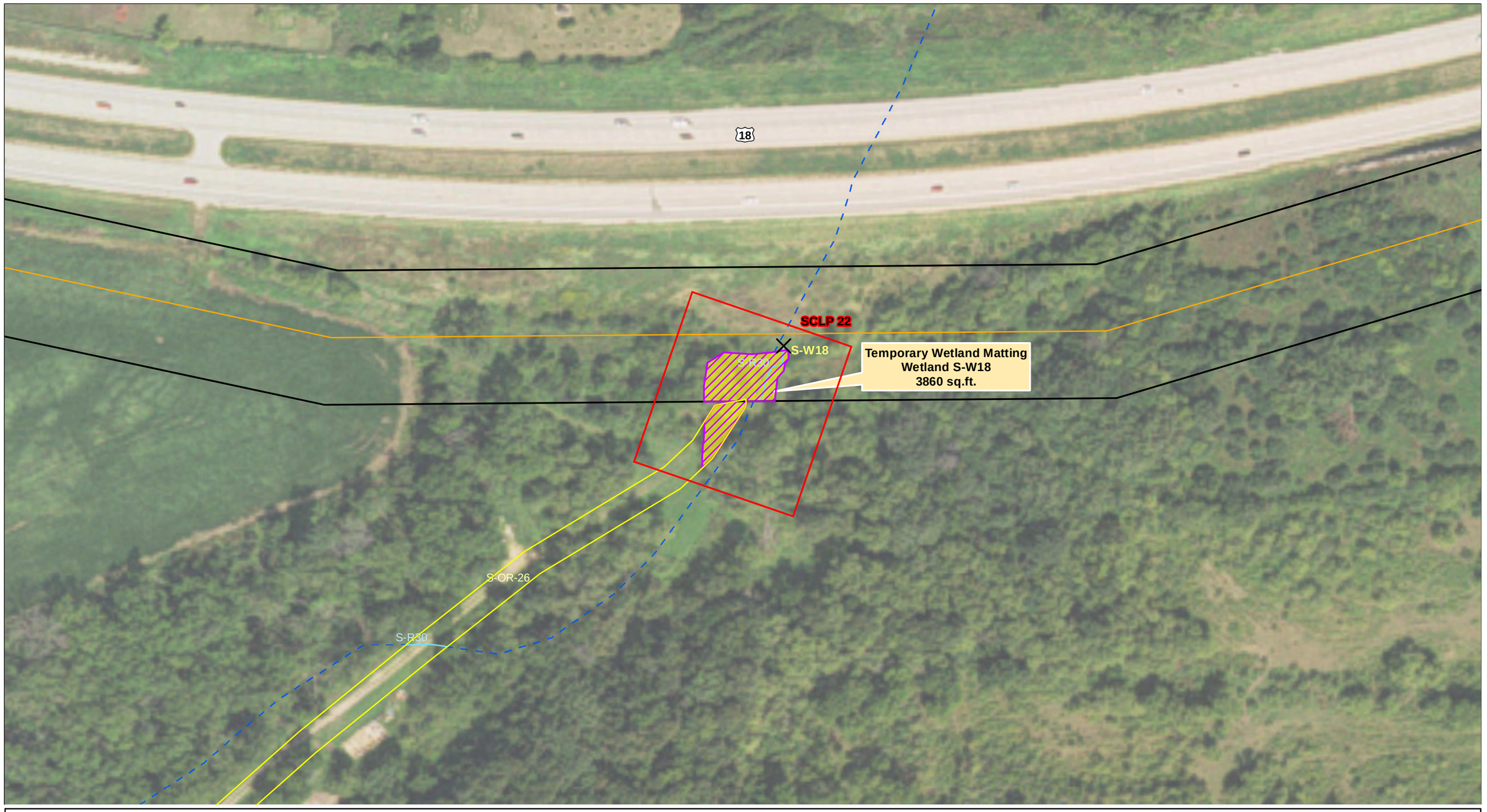
HILL VALLEY - CARDINAL
WETLAND IMPACTS PLAN SHEET



Legend

- Segment Node
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- Delineated Wetlands

DNR 24k Hydrography

- Perennial Stream
- Intermittent Stream
- Waterbody

N

0 50 100

Feet

Figure 3. Hill Valley - Cardinal Wetland Impacts Plan Sheet for SCLP 22

CARDINAL-HICKORY CREEK TRANSMISSION LINE PROJECT

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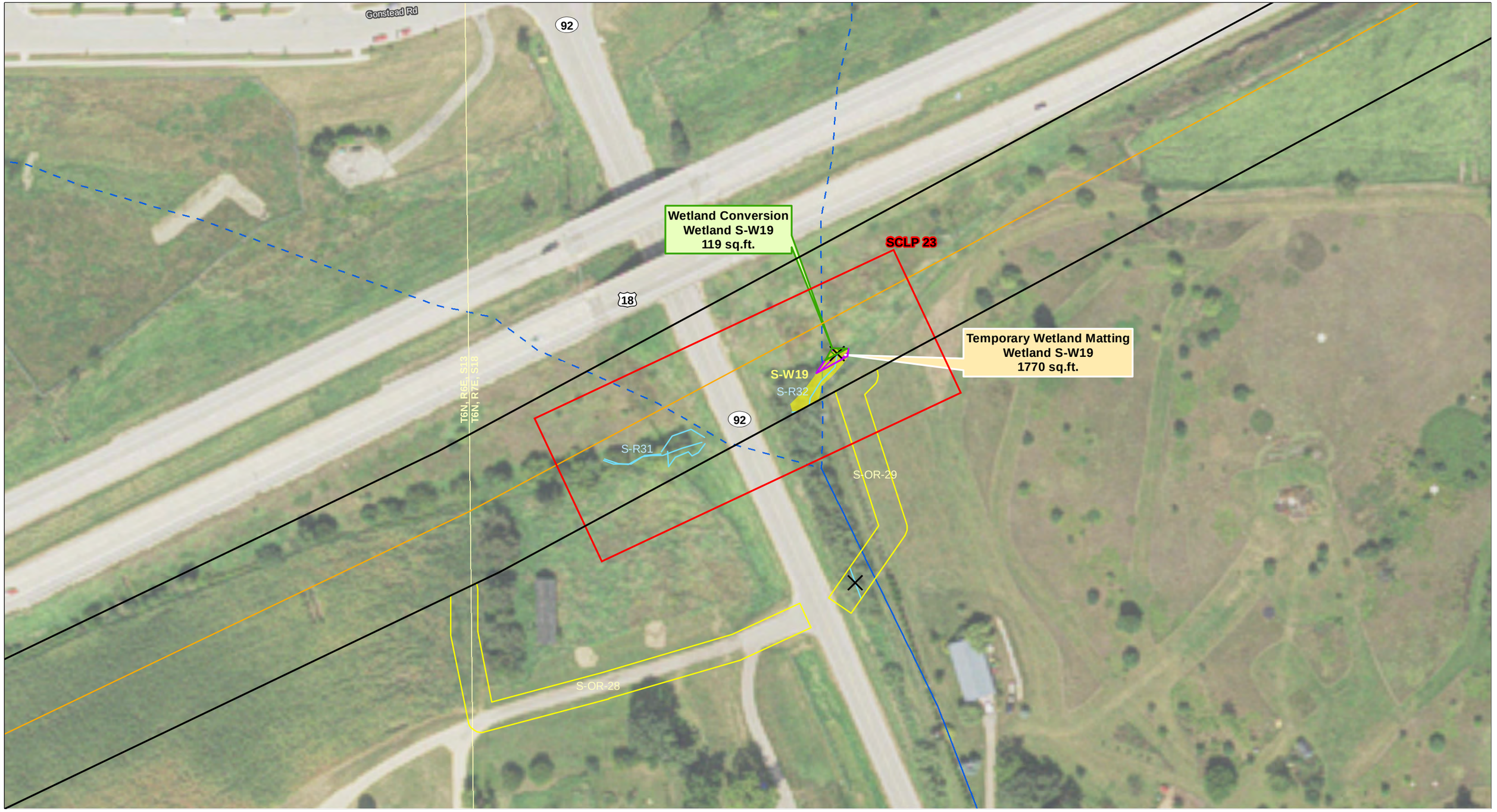
HILL VALLEY - CARDINAL
WETLAND IMPACTS PLAN SHEET



Legend

- Segment Node
- Structure in Wetland
- Ordered Route; WisDOT Modification
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- Route Options
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- Open Water
- Delineated Wetlands

DNR 24k Hydrography

- Perennial Stream
- Intermittent Stream
- Waterbody

0 50 100
Feet

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Figure 3. Hill Valley - Cardinal Wetland Impacts Plan Sheet for SCLP 23

CARDINAL-HICKORY CREEK TRANSMISSION LINE PROJECT

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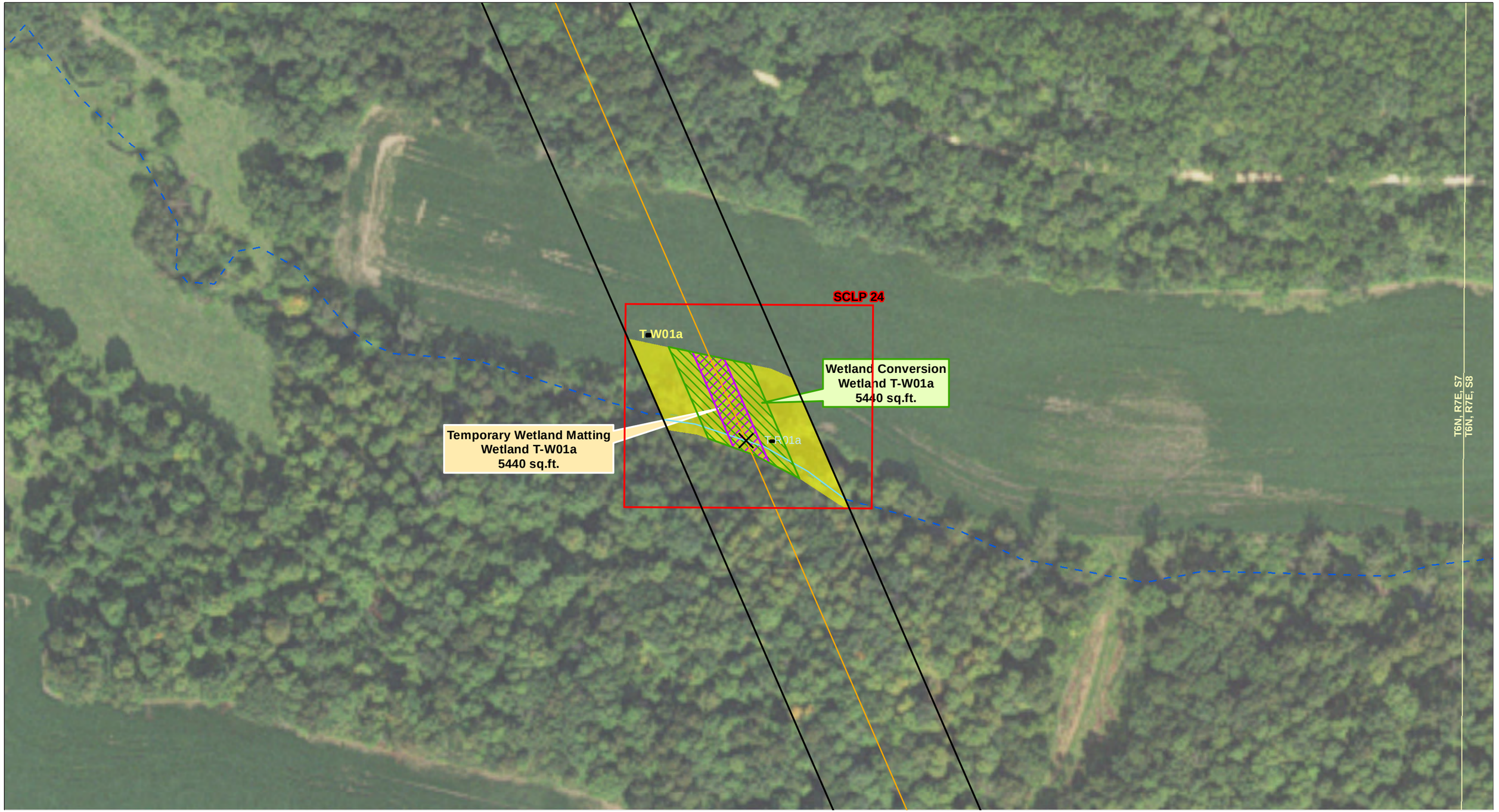
HILL VALLEY - CARDINAL
WETLAND IMPACTS PLAN SHEET



Legend

- Segment Node
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DNR 24k Hydrography

- Perennial Stream
- Intermittent Stream
- Waterbody

0 50 100
Feet

The information presented in this map document is advisory and is intended for reference purposes only. Applicant owned and operated facility locations are approximate. Data Sources: ATC, ITC, DPC, WDNR, WisDOT, PSCW, County LIOs.

Figure 3. Hill Valley - Cardinal Wetland Impacts Plan Sheet for SCLP 24

CARDINAL-HICKORY CREEK TRANSMISSION LINE PROJECT

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HILL VALLEY - CARDINAL
WETLAND IMPACTS PLAN SHEET

Legend

- Segment Node
- Structure in Wetland
- Ordered Route; WisDOT Modification
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- Route Options
- Off-ROW Access
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- Open Water
- Delineated Wetlands

DNR 24k Hydrography

- Perennial Stream
- Intermittent Stream
- Waterbody

0 50 100
Feet

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Figure 3. Hill Valley - Cardinal Wetland Impacts Plan Sheet for SCLP 25

CARDINAL-HICKORY CREEK TRANSMISSION LINE PROJECT

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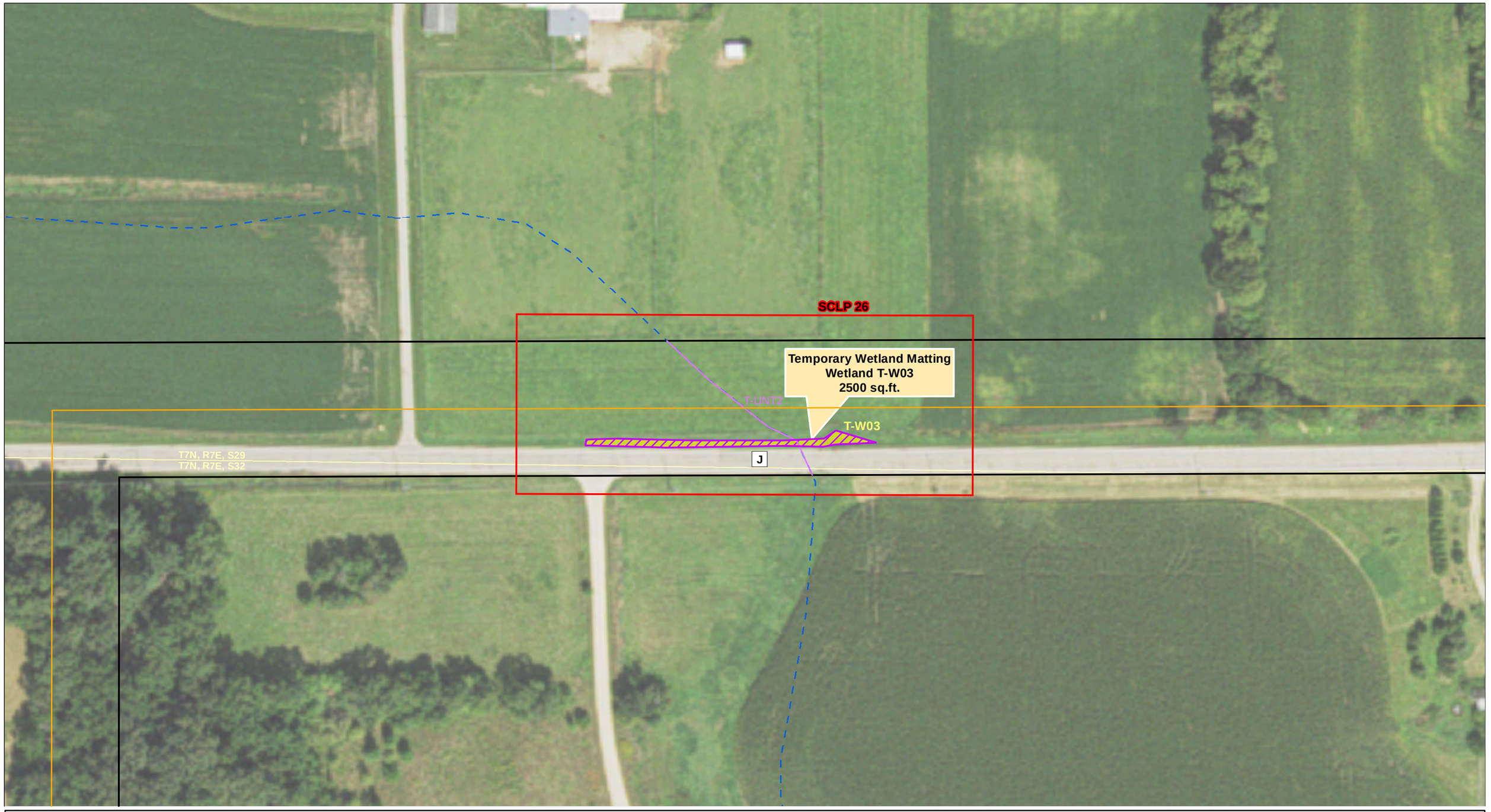
HILL VALLEY - CARDINAL
WETLAND IMPACTS PLAN SHEET



Legend

- Segment Node
- Structure in Wetland
- Ordered Route; WisDOT Modification
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- DNR 24k Hydrography
- Perennial Stream
- Intermittent Stream
- Waterbody

0 50 100
Feet

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Figure 3. Hill Valley - Cardinal Wetland Impacts Plan Sheet for SCLP 26

CARDINAL-HICKORY CREEK TRANSMISSION LINE PROJECT

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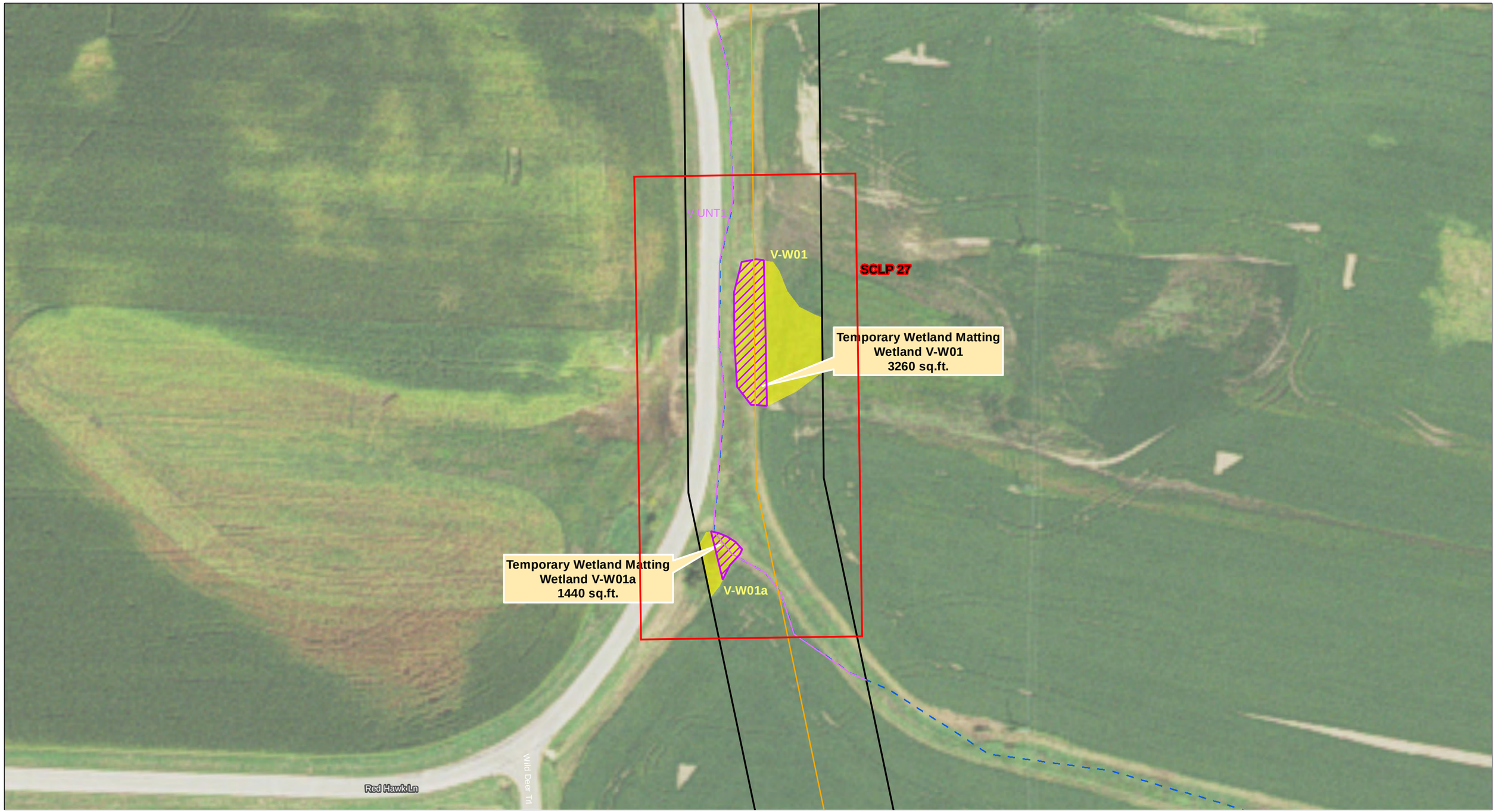
HILL VALLEY - CARDINAL
WETLAND IMPACTS PLAN SHEET



Legend

- Segment Node
- Structure in Wetland
- Ordered Route; WisDOT Modification
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- Delineated Wetlands

DNR 24k Hydrography

- Perennial Stream
- Intermittent Stream
- Waterbody

0 50 100
Feet

The information presented in this map document is advisory and is intended for reference purposes only. Applicant owned and operated facility locations are approximate. Data Sources: ATC, ITC, DPC, WDNR, WisDOT, PSCW, County LIOs.

Figure 3. Hill Valley - Cardinal Wetland Impacts Plan Sheet for SCLP 27

CARDINAL-HICKORY CREEK TRANSMISSION LINE PROJECT

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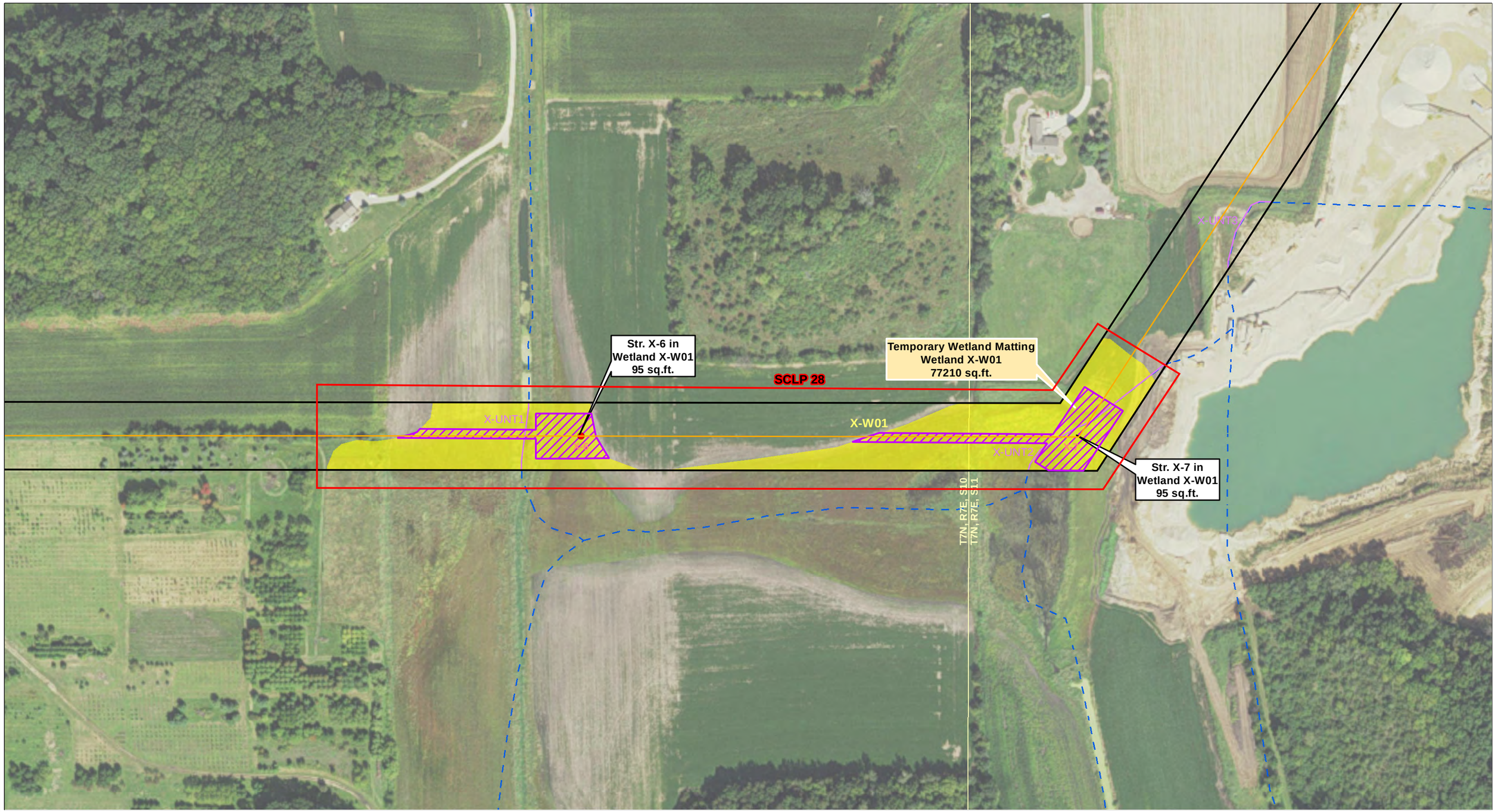
HILL VALLEY - CARDINAL
WETLAND IMPACTS PLAN SHEET



Legend

- Segment Node
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- Delineated Wetlands

DNR 24k Hydrography

- Perennial Stream
- Intermittent Stream
- Waterbody

N

0 50 100
Feet

The information presented in this map document is advisory and is intended for reference purposes only. Applicant owned and operated facility locations are approximate. Data Sources: ATC, ITC, DPC, WDNR, WisDOT, PSCW, County LIOs.

Figure 3. Hill Valley - Cardinal Wetland Impacts Plan Sheet for SCLP 28

CARDINAL-HICKORY CREEK TRANSMISSION LINE PROJECT

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HILL VALLEY - CARDINAL
WETLAND IMPACTS PLAN SHEET

Legend

- Segment Node
- Structure in Wetland
- Ordered Route; WisDOT Modification
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- Project ROW
- Route Options
- Off-ROW Access
- TCSB
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- Open Water
- Delineated Wetlands

DNR 24k Hydrography

- Perennial Stream
- Intermittent Stream
- Waterbody

N

0 50 100
Feet

Figure 3. Hill Valley - Cardinal Wetland Impacts Plan Sheet for SCLP 30

CARDINAL-HICKORY CREEK TRANSMISSION LINE PROJECT

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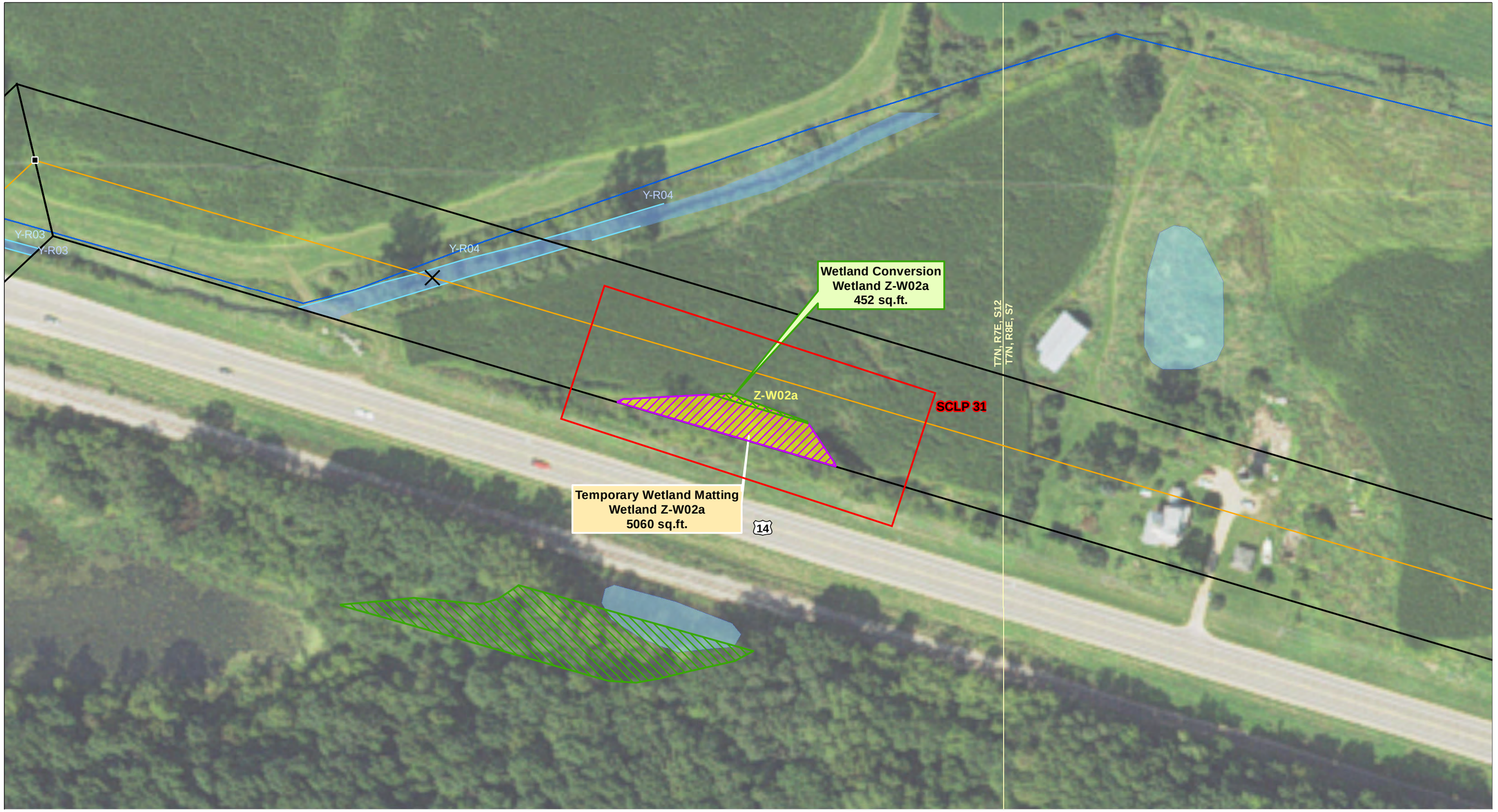
HILL VALLEY - CARDINAL
WETLAND IMPACTS PLAN SHEET



Legend

- Segment Node
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DNR 24k Hydrography

- Perennial Stream
- Intermittent Stream
- Waterbody

N

0 50 100
Feet

Figure 3. Hill Valley - Cardinal Wetland Impacts Plan Sheet for SCLP 31

CARDINAL-HICKORY CREEK TRANSMISSION LINE PROJECT

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HILL VALLEY - CARDINAL
WETLAND IMPACTS PLAN SHEET

Temporary Wetland Matting
Wetland Z-W02b
18070 sq.ft.

Z-W02b

Z-R01b

Z-R01b

Wetland Conversion
Wetland Z-W02b
18182 sq.ft.

SCLP 32

14

Temporary Wetland Matting
Wetland Z-W03
5200 sq.ft.

Z-W03

Z-W3a

Z-R01a

Z-R01a

Str. Z-7 in
Wetland Z-W03a
95 sq.ft.

Z-R01

Z-W3b

SCLP 33

Temporary Wetland Matting
Wetland Z-W03b
18680 sq.ft.

Y-OR-01

Temporary Wetland Matting
Wetland Z-W03a
38550 sq.ft.

Z-R01

Deer Run Rd

T7N, R8E, S7
T7N, R8E, S18

Low Rd

Legend

- Segment Node
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DNR 24k Hydrography
- Perennial Stream
- Intermittent Stream
- Waterbody

N

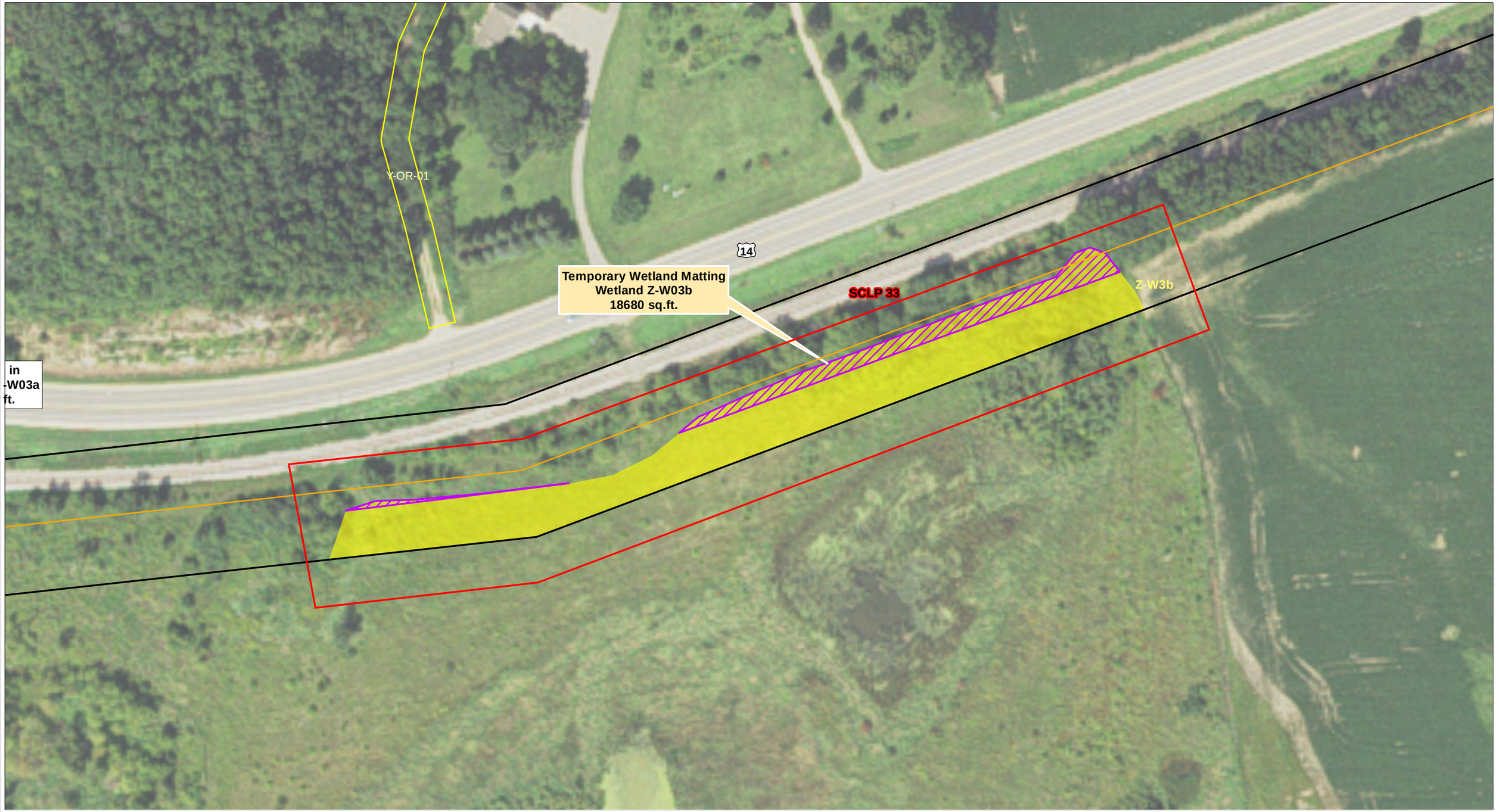
0 50 100
Feet

Figure 3. Hill Valley - Cardinal Wetland Impacts Plan Sheet for SCLP 32

CARDINAL-HICKORY CREEK TRANSMISSION LINE PROJECT

OCTOBER 2019		PAGE 1 OF 1

HILL VALLEY - CARDINAL
WETLAND IMPACTS PLAN SHEET



Legend

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- Delineated Wetlands

DNR 24k Hydrography

- Perennial Stream
- Intermittent Stream
- Waterbody

N

0 50 100

Feet

ATC AMERICAN TRANSMISSION COMPANY | ITC | DAIRYLAND POWER COOPERATIVE

Figure 3. Hill Valley - Cardinal Wetland Impacts Plan Sheet for SCLP 33

CARDINAL-HICKORY CREEK TRANSMISSION LINE PROJECT

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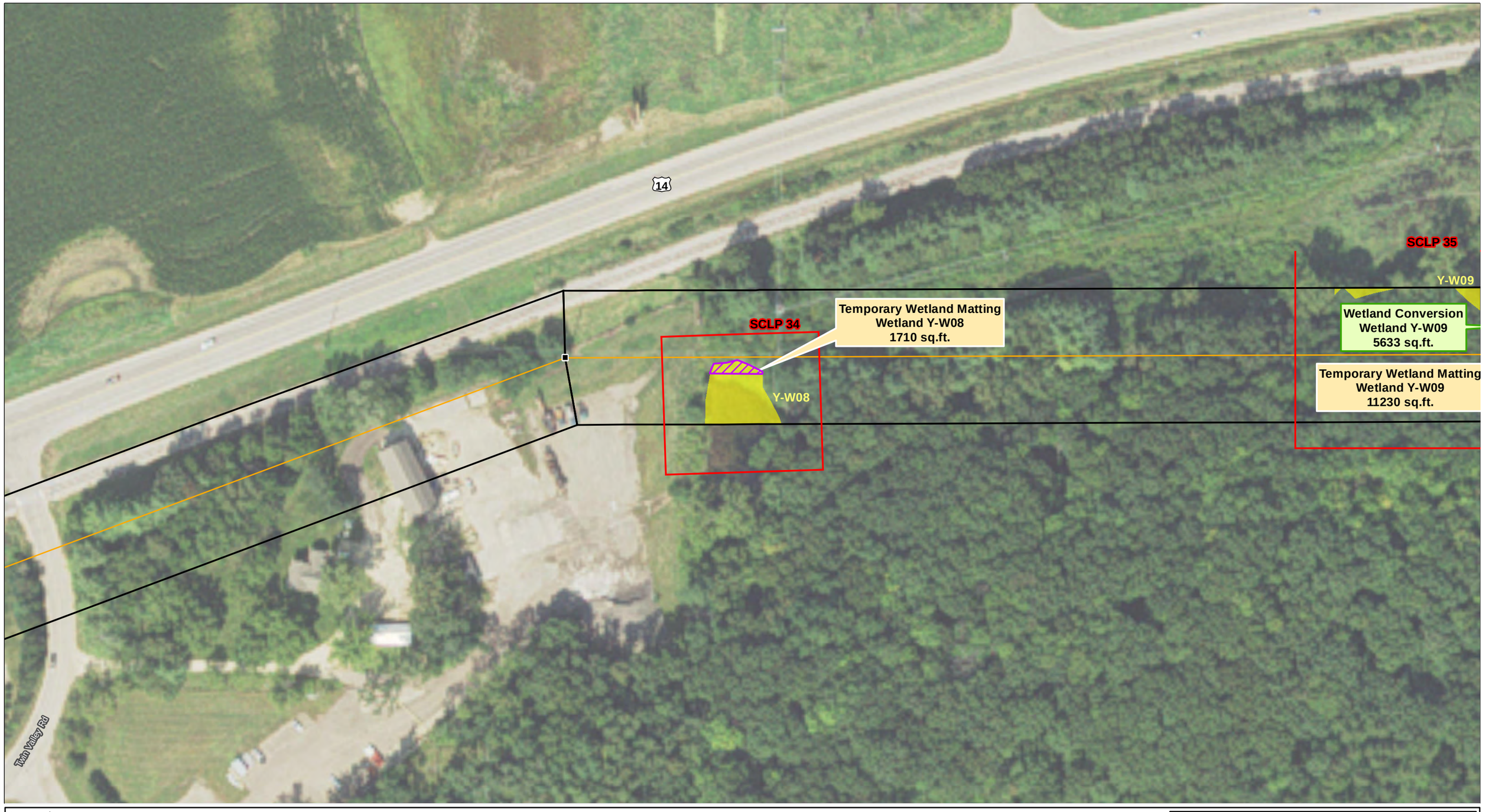
HILL VALLEY - CARDINAL
WETLAND IMPACTS PLAN SHEET



Legend

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DNR 24k Hydrography

- Perennial Stream
- Intermittent Stream
- Waterbody

0 50 100
Feet

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Figure 3. Hill Valley - Cardinal Wetland Impacts Plan Sheet for SCLP 34

CARDINAL-HICKORY CREEK TRANSMISSION LINE PROJECT

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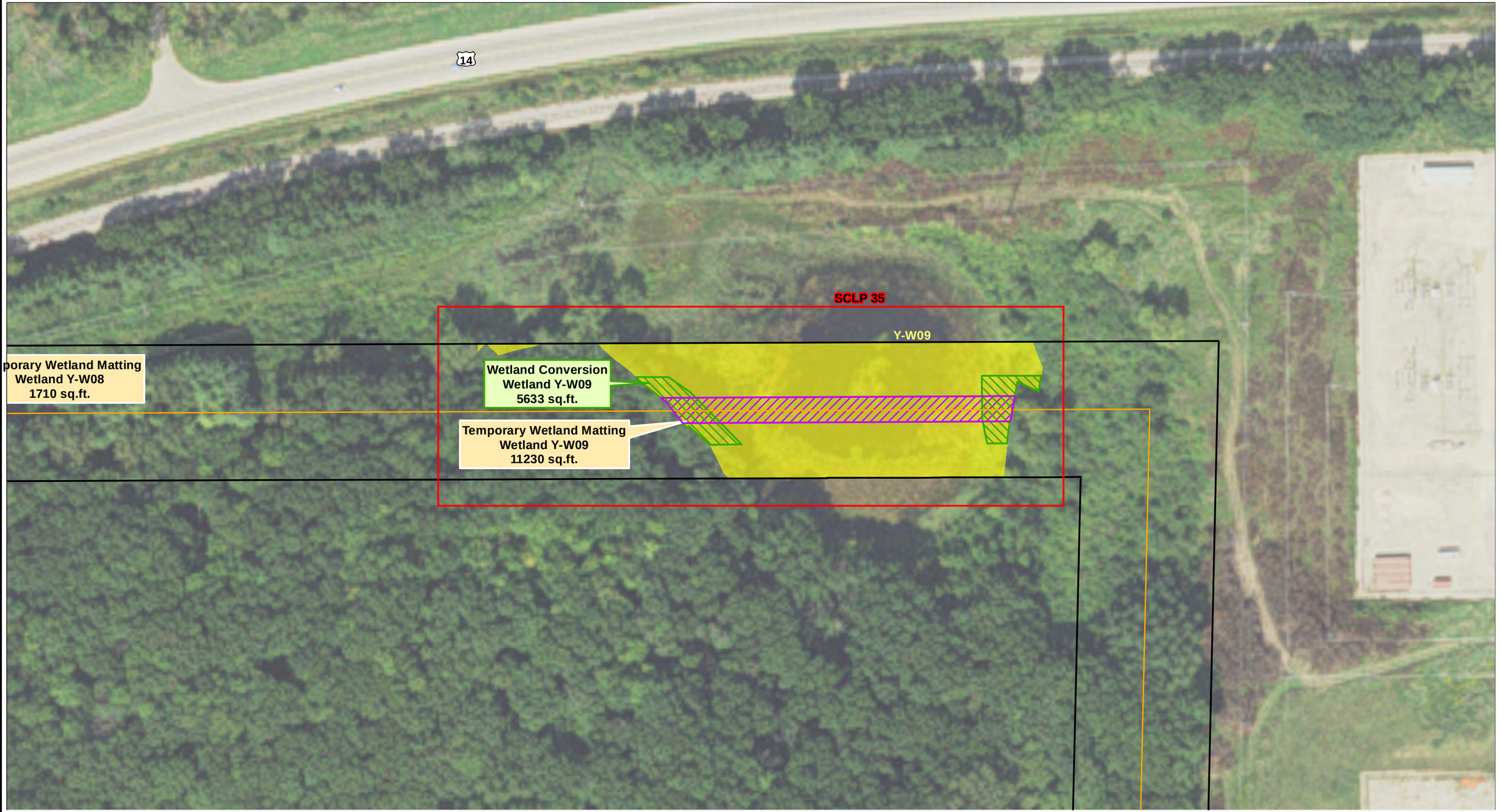
HILL VALLEY - CARDINAL
WETLAND IMPACTS PLAN SHEET



Legend

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DNR 24k Hydrography

- Perennial Stream
- Intermittent Stream
- Waterbody

N

0 50 100

Feet

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ATC AMERICAN TRANSMISSION COMPANY | ITC | DAIRYLAND POWER COOPERATIVE

Figure 3. Hill Valley - Cardinal Wetland Impacts Plan Sheet for SCLP 35

CARDINAL-HICKORY CREEK TRANSMISSION LINE PROJECT

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HILL VALLEY - CARDINAL
WETLAND IMPACTS PLAN SHEET

St. Paul District Corps of Engineers, Regulatory Branch
Utility Regional General Permit Conditions

To qualify for Utility regional general permit (RGP) authorization, the prospective permittee must comply with the following conditions, as applicable, in addition to any Utility RGP terms and project-specific conditions imposed by the Corps.

1. Compliance: The permittee is responsible for ensuring that whomever performs, supervises or oversees any portion of the physical work associated with the construction of the project has a copy of and is familiar with all the terms and conditions of the RGP and any special (permit-specific) conditions included in any written verification letter from the Corps. The activity must also comply with any special conditions added by the state, tribe, or U.S. EPA in its Section 401 Water Quality Certification, or by the state in its Coastal Zone Management Act consistency determination. The permittee is ultimately responsible for ensuring compliance with all the terms and conditions of the RGP. Any authorized structure or fill shall be properly maintained, including maintenance to ensure public safety and compliance with applicable RGP general conditions, as well as any activity-specific conditions added by the Corps to an RGP authorization.
2. Compliance Certification: Each permittee who receives an RGP verification letter from the Corps must provide a signed certification documenting completion of the authorized activity and implementation of any required compensatory mitigation. The Corps will provide the permittee the certification document with the RGP verification letter. The completed certification document must be submitted to the Corps within 30 days of completion of the authorized activity or the implementation of any required compensatory mitigation, whichever occurs later.
3. Site Inspection: The permittee shall allow representatives from the Corps to inspect the proposed project site and the authorized activity to ensure that it is being, or has been, constructed and maintained in accordance with the RGP authorization.
4. Migratory Birds and Bald and Golden Eagles: The permittee is responsible for ensuring their action complies with the Migratory Bird Treaty Act and the Bald and Golden Eagle Protection Act. The permittee is responsible for contacting appropriate local office of the U.S. Fish and Wildlife Service (FWS) to determine applicable measures to reduce impacts to migratory birds or eagles, including whether "incidental take" permits are necessary and available under the Migratory Bird Treaty Act or Bald and Golden Eagle Protection Act for a particular activity.
5. Endangered Species:
    a. No activity is authorized under this RGP which is likely to directly or indirectly jeopardize the continued existence of a federally threatened or endangered species or a species proposed for such designation, as identified under the Endangered Species Act (ESA), 50 CFR 402, or which will directly or indirectly destroy or adversely modify the critical habitat of such species. No activity is authorized under the Utility RGP which "may affect" a listed species or critical habitat, unless ESA Section 7 consultation addressing the effects of the proposed activity has been completed, and a Corps RGP verification letter is issued. Direct effects are the immediate effects on listed species and critical habitat caused by the RGP activity. Indirect effects are those effects on listed species and critical habitat that are caused by the RGP activity and are later in time, but still are reasonably certain to occur.
    b. As a result of formal or informal consultation with the FWS, the Corps may add species-specific permit conditions to the RGP verification.
    c. Information on the location of federally threatened and endangered species and their critical habitat can be obtained directly from the offices of the FWS on their web page at www.fws.gov/ipac.
6. Calcareous Fens: The permittee may not complete regulated activities in a calcareous fen, unless the Wisconsin Department of Natural Resources has authorized the proposed regulated activity, or the Minnesota Department of Natural Resources has approved a calcareous fen management plan specific to the project. A list of known Minnesota calcareous fens can be found at: http://files.dnr.state.mn.us/eco/wetlands/calcareous_fen_list.pdf.
7. Wild and Scenic Rivers: The permittee may not complete regulated activities which may affect or are located in a designated portions of the National Wild and Scenic River System, or in a river officially designated by Congress as a "study river" for possible inclusion in the system while the river is in an official study status, unless the appropriate Federal agency with direct management responsibility for such river, has determined in writing that the proposed activity will not adversely affect the Wild and Scenic River designation or study status.

8. Historic Properties, Cultural Resources:
   a. No activity which may affect historic properties listed or potentially eligible for listing on the National Register of Historic Places is authorized until the requirements of Section 106 of the National Historic Preservation Act (Section 106) have been satisfied. Federal project proponents should follow their own procedures for complying with the requirements of Section 106 and provide documentation of compliance with those requirements.
   b. Information on the location and existence of historic and cultural resources can be obtained from the State Historic Preservation Office, Tribal Historic Preservation Offices, and the National Register of Historic Places.
   c. Rock or fill material used for activities authorized by this permit must either be obtained from existing quarries or, if a new borrow site is excavated to obtain fill material, the Corps must be notified prior to the use of the new site to determine whether a cultural resources survey of the site is necessary.
9. Discovery of Previously Unknown Remains and Artifacts: If any previously unknown historic, cultural or archeological remains and artifacts are discovered while accomplishing the activity authorized by this permit, you must immediately notify the Corps of what you have found, and to the maximum extent practicable, avoid construction activities that may affect the remains and artifacts until the required coordination has been completed. The Corps will initiate the federal, tribal, and state coordination required to determine if the items or remains warrant a recovery effort or if the site is eligible for listing in the National Register of Historic Places.
10. Burial Sites: Burial sites, marked or unmarked, are subject to state law (Wisconsin Statute 157.70 and Minnesota Statutes 306 and 307.08). Native American burial sites on federal or tribal land are subject to the provisions of Native American Graves Protection and Repatriation Act (NAGPRA). Regulated activities may not result in disturbance or removal of human remains until disposition of the remains has been determined by the appropriate authority under these laws, and the work is authorized by the Corps. Regulated activities which result in an inadvertent discovery of human remains must stop immediately, and the Corps, as well as the appropriate state and tribal authority, must be notified. Regulated work at inadvertent discovery sites requires compliance with state law and NAGPRA, as appropriate, prior to re-starting work.
11. Federally Authorized Corps Civil Works projects: A permittee is not authorized to begin any regulated activities described in this RGP if activities will alter or temporarily or permanently occupy or use a Corps federally authorized civil works project, unless the appropriate Corps office issues Section 408 permission to alter, occupy, or use the Corps civil works project (pursuant to 33 U.S.C. 408), and the Corps issues written a Utility RGP verification. Examples of federal projects include, but are not limited to, works that were built by the Corps and are locally maintained (such as local flood control projects) or operated and maintained by the Corps (such as locks and dams).
12. Dam Safety: Permittees are not authorized to begin regulated activities unless they are able to demonstrate that the structures, when appropriate, comply with applicable state dam safety criteria or have been designed by qualified persons. The Corps may require documentation that the design has been independently reviewed by similarly qualified persons, and appropriate modifications are made to ensure safety.
13. Suitable Material. No activity may use unsuitable material (e.g., trash, debris, car bodies, asphalt, etc.). Material used for construction or discharged must be free from toxic pollutants in toxic amounts (see Section 307 of the Clean Water Act).
14. Restoration of Temporary Impacts: All temporary impacts in waters of the US, including discharges resulting from side casting material excavated from trenching, that occur as a result of the regulated activity must be fully contained with appropriate erosion control or containment methods, be restored to preconstruction contours and elevations, and, as appropriate, revegetated with native, non-invasive vegetation. In temporarily excavated wetlands, topsoil should be segregated and replaced to original depths, for example, in most wetlands the top 6 to 12 inches of the excavation should normally be backfilled with topsoil originating from the wetland. No temporary excavation area, including, but not limited to trenches, may be constructed or backfilled in such a manner as to drain waters of the United States (e.g., backfilling with extensive gravel layers, creating a French drain effect).

15. **Duration of Temporary Impacts**: Temporary impacts in waters of the U.S., including wetlands, must be avoided and limited to the smallest area and the shortest duration required to accomplish the project purpose.
    a. Unless otherwise conditioned in a Corps RGP verification, temporary impacts may not remain in place longer than 90 days between May 15 and November 15. Before those 90 days have elapsed, all temporary discharges must be removed in their entirety.
    b. If the temporary impacts would remain in place for longer than 90 days between May 15 and November 15, the PCN must include a request for a waiver from this condition and specify how long temporary impacts will remain and include a restoration plan showing how all temporary fills and structures will be removed and the area restored to pre-project conditions. The permittee must remove the temporary impacts in their entirety in accordance with the activity authorized their permit verification.
16. Best Management Practices (BMPs): To minimize adverse effects from soil loss and sediment transport that may occur as a result of the authorized work, appropriate BMPs must be implemented and maintained. For authorized work above an OHWM the BMPs must remain in place until the affected area is stabilized with vegetation or ground cover. For all authorized work below an OHWM, BMPs are required and must prevent or minimize adverse effects (e.g., total suspended solids or sedimentation) to the water column outside of the authorized work area. Heavy equipment working in wetlands or mudflats must be placed on mats, or other measures must be taken to minimize soil disturbance. All BMPs must be inspected and properly maintained following storm events to ensure they are operational. All exposed slopes and stream banks must be stabilized within 24 hours after completion of all tributary crossings.
17. Culverts and Crossings: Unless an RGP verification authorizes otherwise, replacement and installation of culverts or crossings authorized by an RGP are to follow (or be restored to) the natural alignment and profile of the tributary. The culverts or bridges must adequately pass low flow and bankfull events, bedload, sediment load, and provide site-appropriate fish and wildlife passage. Example design elements include recessing single culverts to accommodate natural bankfull width and adjusting additional culvert inverts at an elevation higher than the bankfull elevation.
18. Aquatic Life Movements: No regulated activity may substantially disrupt the necessary life cycle movements of those species of aquatic life indigenous to the waterbody, including those species that normally migrate through the area, unless the activity's primary purpose is to impound water.
19. Spawning Areas: Activities in spawning areas, during spawning seasons, must be avoided to the maximum extent practicable. Activities that result in the physical destruction (e.g., through excavation, fill, or downstream smothering by substantial sedimentation) of a designated or known spawning area are not authorized.
20. Riprap: For RGP categories that allow for the use of riprap material for bank stabilization, only rock shall be used and it must be of a size sufficient to prevent its movement from the authorized alignment by natural forces under normal or high flows.
21. Pollutant or Hazardous Waste Spills: The permittee is responsible for removing pollutants and hazardous materials and for minimizing any contamination resulting from a spill in accordance with all applicable state, tribal, and federal laws. In accordance with applicable state, tribal, and federal laws and regulations, if a spill of any potential pollutant or hazardous waste occurs, it is the responsibility of the permittee to immediately notify the National Response Center at 1-800-424-8802 or www.nrc.uscg.mil AND
    IN WISCONSIN: the WI DNR Spills Team at 1-800-943-0003; or
    IN MINNESOTA: the Minnesota State Duty Officer at 1-800-422-0798.
22. Clean Construction Equipment: All construction equipment must be clean prior to entering and before leaving the work site in order to prevent the spread of invasive species.
23. Navigation: No activity may cause more than a minimal adverse effect on navigation. Any safety lights and signals prescribed by the U.S. Coast Guard, through regulations or otherwise, must be installed and maintained at the permittee's expense on authorized facilities in navigable waters of the US. The permittee understands and agrees that, if future operations by the United States require the removal, relocation, or other alteration, of the structure or work herein authorized, or if, in the opinion of the Secretary of the Army or his authorized representative, said structure or work shall cause unreasonable obstruction to the free navigation of the navigable waters, the permittee will be

required, upon due notice from the Corps, to remove, relocate, or alter the structural work or obstructions caused thereby, without expense to the United States. No claim shall be made against the United States on account of any such removal or alteration.

24. Fills Within 100-Year Floodplains: The regulated activity must comply with applicable FEMA-approved state or local floodplain management requirements.
25. Access Roads: Access roads must be sized appropriately and must be constructed in such a way to minimize adverse effects on waters of the US and elevations must be as near as practicable to pre-construction contours and elevations (e.g., at grade corduroy roads or geotextile/gravel roads). All access roads constructed in waters of the US must be properly bridged or culverted to maintain surface flows.
26. Minimum Clearances for Aerial Lines over Navigable Waters: The minimum clearance* for an aerial electrical power transmission line is based on the low point of the line under conditions that produce the greatest sag, taking into consideration temperature, load, wind, length or span and the type of supports. The minimum clearance for an aerial electrical power transmission line crossing navigable waters of the United States, where there is an established bridge clearance established by the U.S. Coast Guard, shall be governed by the system voltage, as indicated below:

Nominal System Voltage, in kilovolts	Minimum Clearance Above Bridge (as established by the U.S. Coast Guard)
115 and below	20 feet
138	22
161	24
230	26
350	30
500	35
700	42
750 to 765	45

*NOTE: Minimum clearance is the distance measured between the lowest point of a stationary bridge, including *any* infrastructure attached to underside of the bridge, and the ordinary high water mark of the navigable waters of the United States beneath the bridge.

27. Minimum Depths for Utility Lines under Federally-Maintained Channels: Unless otherwise conditioned in a Corps Utility RGP verification letter, all utility line crossings of federally-maintained channels (i.e., the Mississippi River) will be buried at least six (6) feet below the allowable over depth of the authorized channel, including all side slopes.
28. Overhead Utility Line Foundations: Foundations proposed for overhead utility lines must be the minimum size necessary and separate footings for each tower leg (rather than a large single pad) must be used where practicable.
29. Remediation of Inadvertent Returns of Drilling Fluid: When an inadvertent return of drilling fluids is suspected or detected in a regulated water of the U.S. the contractor shall suspend all drilling operations at the return site immediately. Work shall be undertaken immediately to contain and clean-up the inadvertent drilling fluid and minimize further migration of the drilling fluids/slurry in waters of the US. All inadvertent return sites located in waters of the U.S. shall be returned to pre-project conditions pursuant to Conditions 14 and 15. Notification must be provided consistent with Condition 21. Notification of inadvertent returns in waters of the US must also include notification to the Corps, but does not require Utility RGP verification prior to commencing remediation work.
30. Section 401 Clean Water Act Water Quality Certification: All regulated activities authorized by the Utility RGP pursuant to Section 404 of the Clean Water Act require Section 401 Clean Water Act certification or waiver to be considered valid.
31. Transfer of Regional General Permit Verifications: If the permittee sells the property associated with a regional general permit verification, the permittee may transfer the regional general permit verification to the new owner by submitting a letter to the appropriate Corps district office to validate the transfer. A copy of the regional general permit verification must be attached to the letter, and the letter must contain the following statement and signature "When the structures or work authorized by this regional general permit are still in existence at the time the property is transferred, the terms and conditions of this regional general permit, including any special conditions, will continue to be binding on the new owner(s) of the property. To validate the transfer of this regional general permit and the

associated liabilities associated with compliance with its terms and conditions, have the transferee sign and date below."

_____
(Transferee)

_____
(Date)

State of Wisconsin
DEPARTMENT OF NATURAL RESOURCES
101 S. Webster Street
P.O. Box 7921
Madison, WI 53707-7921

Tony Evers, Governor
Preston D. Cole, Secretary
Telephone 608-266-2621
Toll Free 1-888-936-7463
TTY Access via relay - 711

October 25, 2019 IP-SC-2019-25-03588

Amy Lee
American Transmission Company
2485 Rinden Road
Cottage Grove, WI 53527

Dan Hagan
ITC Midwest
100E. Grand Ave., Ste. 230
Des Moines, IA 50309

Chuck Thompson
Dairyland Power Cooperative
3299 E Avenue S
La Crosse, WI 54601

Dear Ms. Lee, Mr. Hagan, and Mr. Thompson,

The Department of Natural Resources (WDNR, or Department) has reviewed your application for a utility permit pursuant to Chapter 30.025(1m), to place fill in wetlands and to place temporary clear-span bridges over public (navigable) waterways, as part of the American Transmission Company (ATC), ITC Midwest, LLC (ITC), and Dairyland Power Cooperative's Cardinal Hickory Creek Project. You will be pleased to know your application is approved with a few limitations.

The enclosed document is the WDNR permit decision for certain construction activities pertaining to the Cardinal Hickory Creek Project, submitted to the Wisconsin Public Service Commission (PSC) and the WDNR under docket 5-CE-146 for authority to construct and operate a new 345 kilovolt (kV) transmission line from the existing Hickory Creek Substation in Dubuque County, Iowa, to the existing Cardinal Substation in Dane County, Wisconsin, construction of a new Hill Valley Substation in Grant County, and associated modifications to several existing substations. The attached utility permit lists the conditions which must be followed, so please read your permit conditions so that you are fully aware of what is expected of you.

This permit authorizes 13.19 acres of temporary wetland fill from the placement of construction matting in wetland, 0.02 acres of permanent wetland fill from the placement of transmission line structures in wetland, permanently clear 4.60 acres of shrub and/or forested wetland, and the placement of 110 temporary clear span bridges, as shown in the attached WDNR Table 1 dated 10-16-2019. This permit also confirms the state water quality certification necessary for proceeding under an approval pursuant to a federal permit issued by the Army Corps of Engineers.

If you have any questions about your permit, please call me at (262) 574-2153, or you can email me at Geri.Radermacher@wisconsin.gov.

Sincerely,

Geri Radermacher
Water Management Specialist

cc: April Marcangeli, U.S. Army Corps of Engineers
Iowa County Zoning
Grant County Zoning
Dane County Zoning
Akanksha Craft, PSC
Adam Ingwell, PSC
Cindy Burtley, PSC
Brian Yanke, WDNR
Kevin Swenson, WDNR
Mike LaBissoniere, WDNR
Cindy Koepke, WDNR
Stacy Rowe, WDNR
Christine Gonzalez, WDNR
Ben Callan, WDNR

STATE OF WISCONSIN **Wetland and Bridge Permit**
DEPARTMENT OF NATURAL RESOURCES **IP-SC-2019-25-03588**

This is a WDNR utility permit for the application of American Transmission Company (ATC), ITC Midwest, LLC (ITC), and Dairyland Power Cooperative, for authority to construct and operate a new 345 kilovolt (kV) transmission line from the existing Hickory Creek Substation in Dubuque County, Iowa, to the existing Cardinal Substation in Dane County, Wisconsin, known as the Cardinal Hickory Creek Project, located in Iowa, Grant, and Dane Counties.

ATC, ITC, and Dairyland (hereafter collectively referred to as the applicants) are hereby granted under Section 401 of the Clean Water Act (CWA), Sections 30.025, 30.123, 182.017, 281.15, 281.36, Wisconsin Statutes, and Chapters NR 102, 103, 150, 299, and 320, Wisconsin Administrative Codes, a permit to place temporary clear span bridges across public waterways, and a wetland permit and water quality certification to place temporary and permanent fill in wetlands, subject to the following conditions:

PERMIT

Reporting and Notification Conditions

1. You must notify Geri Radermacher before starting construction and again not more than 5 days after the project is complete.

2. You shall notify Geri Radermacher via email within 24 hours of any violations of this permit that you become aware of. At a minimum, this notification shall include the following: when the violation occurred, what the violation was, where the violation occurred, how the violation was corrected, and steps that will be taken to ensure the violation does not reoccur.

3. You shall notify the Department's Property Manager and/or Trail Coordinator at least 10 business days prior to conducting any work on or access across WDNR owned and/or managed property, including trails.

4. You must notify Geri Radermacher of any spills of any hazardous materials affecting wetlands and/or waterways within 24 hours. Spills of hazardous or toxic materials that pose a threat to human health, safety or the environment must be cleaned up to the extent practicable. All reportable spills should be reported immediately to the WDNR using the 24-hour toll free hot line, 1-800-943-0003. For more information, please visit the spills program web page: www.dnr.state .wi.us/org/ aw/ rr/ spill s/index.htm.

5. Within one week of completion of work, you must submit a series of photographs to the WDNR of all work authorized by this permit. All photographs must be clear, and all photographs must be labeled with the waterway/wetland feature identifier. The photographs must show each permitted activity and appropriate restoration.

General Conditions

6. You shall complete the project, including site stabilization, as described on or before **10-25-2022.** If you will not complete the project by this date, you must submit a written request for an extension prior to expiration of the initial time limit specified in the permit. Your request must identify the requested extension date. The Department shall extend the time limit for an individual permit or contract for no longer than an additional 5 years if you request the extension before the initial time limit expires. You may not begin or continue construction after the original permit expiration date unless the Department extends the permit in writing or grants a new permit.

7. This permit does not authorize any work other than what you specifically describe in your application and the supplemental materials submitted, and as modified by the conditions of this permit (for the activities and locations listed in the attached WDNR Table 1). Final WDNR approved plans and accompanying documents, as well as plans developed and approved pursuant to the conditions of this permit, are a part of, and are conditions of, this permit. Permit conditions are based on information included in all of the following:

    a. WDNR wetland and waterway permit application, dated 10-10-2019,
    b. WDNR Table 1,
    c. The record created during the Certificate of Public Convenience and Necessity (CPCN) process.

8. If you wish to alter the project or wetland and/or waterway impacts authorized by this permit, you must first obtain written approval from the Department.

9. You are responsible for obtaining any federal, state, and local permits or approvals that may be required before starting your project.

10. Upon reasonable notice, you shall allow access to your project site during reasonable hours to any Department employee who is investigating the project's construction, operation, maintenance, or permit compliance.

11. The Department may modify or revoke this permit for good cause, including if the project is not completed according to the terms of the permit, or if the Department determines the activity is detrimental to the public interest, results in significant adverse impact to wetland functional values, in significant adverse impact to water quality, or in other significant adverse environmental consequences.

12. You must post a copy of this permit at conspicuous locations, including any staging and laydown areas, prior to construction and remaining at least five days after construction. You must also have a copy of the permit and approved plan available at the project site at all times until the project is complete, including site stabilization. All employees, consultants, and contractors who are working on the project must be made aware of the permit, its conditions, and its location. All appropriate managers and supervisors in charge of or working on construction or compliance must be provided with copies of the permit.

13. Your acceptance of this permit and efforts to begin work on this project signify that you have read, understood, and agreed to follow all conditions of this permit.

14. Utility easements must not include language that prevents wetland and waterway restoration and management activities as required by this permit. Restoration agreements with landowners shall comply with all of the conditions of this permit.

15. You, your agent, and any involved contractors or consultants may be considered a party to the violation pursuant to Section 30.292 and 281.36(13), Wis. Stats., for any violations of Chapters 30 and 281.36, Wisconsin Statutes, or this permit.

16. You assume all responsibility and liability for any direct or indirect damage caused or resulting from the installation and maintenance of this transmission line and hold the State of Wisconsin, and its employees, harmless.

17. This permit does not authorize any future work or maintenance within the right-of-way (ROW) or any temporary workspace or access routes.

18. This permit is predicated on a worst-case analysis of impacts and thus the most protective measures practicable for each waterway and wetland crossing are prescribed. Changes to the prescribed impacts may occur only if approved by the WDNR in writing.

19. This permit has been issued with the understanding that any construction equipment used is the right size to do the job and can be brought to and removed from the project's site without unreasonable harm to vegetative cover or fish or wildlife habitat.

20. You must follow field protocols for activities in proximity to known landfills and any solid waste encountered shall be disposed of in accordance with NR 500, solid waste regulations.

21. A portion of the project is located within the Refuse Hideaway Landfill, a site with known groundwater contamination. The applicants shall complete the required consultation with the WDNR's Remediation and Redevelopment (R&R) Program as detailed in the attached memorandum dated 7-16-2019. The applicants shall also obtain any necessary permits and/or approvals from the WDNR's Wastewater Program, if applicable.

22. The project intersects the Military Ridge State Trail on subsegment S01 in the Town of Dodgeville, Iowa County and on subsegment T01 in the Town of Springdale, Dane County. The applicants shall work with the Department's Real Estate Program and Property Manager/Trail Coordinator to secure the necessary agreements, and/or easements for the project prior to beginning work on the property and shall implement measures to minimize the impact to WDNR properties and trails and to recreational users.

23. Inspection reports completed by environmental monitors hired by the applicants shall be made available to the WDNR upon request.

Dewatering Activities Conditions

24. Dewatering of the excavated work areas shall be conducted in accordance with the standards of the applicable general permit under Wisconsin's Pollutant Discharge Elimination System (WPDES)and the Department approved Technical Standards.

25. At no time shall dewatering activities discharge directly to wetlands or waterways without prior effective water quality treatment. If dewatering discharging to wetlands or waterways is cloudy or exceeds 40 mg/l of total suspended solids (TSS), you shall immediately stop dewatering and contact the Department to determine an adequate dewatering method.

Invasive Species Conditions

26. You must ensure that all machinery and equipment used for the project has been adequately de-contaminated for aquatic invasives prior to being used in non-infested waters of the state. All equipment that comes in contact with infested waters including, but not limited to, pumps, hoses, tracked vehicles, barges, boats, turbidity curtain, aquabarrier bladders, and sheet pile must be thoroughly disinfected.

27. All project activities shall be in compliance with NR 40, Wis. Adm. Code.

28. The applicants shall conduct field surveys prior to construction to identify the locations and extent of invasive species plant species.

29. Invasive Species Management Plans that are approved by the WDNR must be implemented by the applicants.

Endangered Resources Conditions

30. All project activities shall be conducted in accordance with the required avoidance and minimizations measures for rare species as indicated in the Endangered Resources Review, and as agreed to by the applicants and the WDNR, and/or included in an Incidental Take Authorization and the PSC Order Conditions.

31. Endangered Species Plans that are approved by the WDNR must be implemented by the applicants.

Erosion Control Conditions

32. Sediment and erosion control best management practices (BMP's) shall be installed prior to any land disturbing activities, shall be inspected and maintained throughout construction and restoration activities, and shall be removed once final stabilization is achieved.

33. Temporary stabilization activities shall commence when land disturbing construction activities have temporarily ceased and will not resume for a period exceeding 14 calendar days.

34. Final stabilization activities shall commence when land disturbing construction activities cease, and final grade has been reached on any portion of the site.

35. Construction shall be accomplished in such a manner as to minimize erosion and siltation into surface waters. Erosion control measures must meet or exceed the technical standards of ch. NR 151, Wis. Adm. Code. The technical standards are found at: http://dnr.wi.gov/topic/stormwater/standards/const_standards.html.

36. Appropriate erosion control measures must be in-place and effective during every phase of this project.

37. Erosion control measure must be in place at the end of each working day.

38. Erosion control measures must be inspected, and necessary repairs or maintenance performed after every rainfall exceeding ½ inch and at least once per week.

39. You must maintain a log of the erosion control inspections, repairs made, and rain events. This must be made available to any Department personnel upon request.

40. Any area where topsoil is exposed during construction shall be stabilized to prevent soil from being eroded and washed into a sensitive resource.

41. The removal of vegetative cover and exposure of bare ground must be restricted to the minimum necessary for construction. Areas where soil is exposed must be protected from erosion by seeding and mulching, sodding, diversion of surface runoff, installation of straw bales or silt screens, construction of settling basins, or similar methods as soon as possible after removal of the original ground cover as described by WDNR technical standards, or site-specific erosion control plan approved by WDNR.

42. No portion of the waterway bank which is altered or disturbed, and as a result unstable, may remain unprotected for more than 7 days.

43. All erosion control matting used on this project must be made from natural fiber only, without any synthetic mesh or netting.

44. Unless separated by an effective physical barrier, you must not deposit or store any of the excavated materials in any wetland, below the ordinary highway water mark, or in the floodway of any waterway.

45. Site stabilization between October 1 and April 15 requires seeding and mulching (with weed-free mulch or non-synthetic matting), or another appropriate stabilization technique/method.

Waterway/Temporary Clear Span Bridge (TCSB) Conditions

46. Waterways within the project area that will not be temporarily bridged for access shall have signs installed on both banks alerting crews that the waterway cannot be traversed or bridged. These signs shall be installed prior to clearing activities and shall remain in place throughout all phases of construction, including restoration. Photo documentation that signage has been installed shall be provided to the WDNR prior to construction.

47. This permit does not authorize the removal of any material below the ordinary high water mark for the placement of TCSB's; does not authorize any in-stream supports for TCSB's; does not authorize any vehicles, including clearing equipment, to travel directly on the bed of any waterway; and is not an approval for any other waterway regulated activity requiring a permit from the WDNR.

48. Construction and placement of the TCSB's shall minimize the removal of trees, shrubs, and other shoreline vegetation.

49. Installation and removal of the TCSB's shall be done from the banks of the waterway. Operation of equipment shall not occur in the waterway and shall not disturb the bed or bank of the waterway.

50. Installation and removal of the TCSB's shall be conducted in a manner that prevents sediment and debris from entering the waterway.

51. Appropriate barriers, such as geotextile fabric and silt sock, shall be installed to prevent sediment and materials from entering the waterway during installation, use, and removal of the TCSB's.

52. All TCSB's across navigable waterways shall either maintain a clearance of not less than 5 feet, or comply with requirements of NR 320.04, Wis. Adm. Code. The project shall allow for portage to anyone legally navigating the waterway.

53. All stream banks shall be protected from the bank collapsing and from erosion due to heavy equipment compressing the work area.

54. No approach fill shall be placed in any wetland, floodway, or below the ordinary high-water mark of any navigable waterway. If an approach is necessary, it must be wooden or metal, rather than fill. If an approach must be located in a floodway, it shall be open ramp style construction only.

55. All TCSB's shall completely span the waterway from top of channel to top of channel with no support pilings in the waterway.

56. You must securely anchor each TCSB with cables or some other WDNR-approved method to prevent it from being transported downstream during flood conditions.

57. You must inspect each TCSB openings for debris and obstructions following any rainfall exceeding ½ inch. You must remove any restriction of flow, and any removed debris must be deposited in an upland site and shall not be placed in a wetland or floodplain.

58. All vehicles and equipment traversing TCSB's must be checked at least once per work day for fluid (e.g. fuel, oil, hydraulic, coolant, etc.) leaks. All leaks must be immediately corrected before the equipment is allowed back into operation.

59. Unless approved in a permit amendment, TCSB's must be removed no later than 30 days after the necessary waterway crossing activities have been completed for construction and restoration work. TCSB's may not remain in place past the expiration date of this permit, unless approved in writing by the Department.

60. Upon removal of the TCSB's, the banks shall be restored to pre-existing or stable conditions.

61. The placement and removal of TCSB's shall not occur during the fish spawning timing restriction periods, which are March 1 to June 15 for non-trout waters and September 15 to May 15 for trout waters, unless the local WDNR Fisheries Biologist reviews the proposal and determines that these timing restrictions can be waived.

62. No structures shall be placed below the ordinary high-water mark of any waterway.

63. Woody debris, brush piles, and wood chips shall not enter or be placed in waterways.

Wetland Conditions

64. Wetland mapped via desktop resource mapping, including the ROW, off-ROW access roads, and staging areas, shall be field investigated prior to construction of any portion of the project to confirm the presence and boundaries of wetlands. The results of these field investigations shall be approved by the WDNR prior to construction.

65. All wetland boundaries shall be marked with signs in the field prior to clearing activities and remain in place throughout all phases of construction, including restoration. Photo documentation that signage has been installed shall be provided to the WDNR prior to construction.

66. No wetlands may be disturbed beyond the area specifically authorized in this permit.

67. Access through wetlands, including equipment travel, shall be minimized to the extent practicable.

68. All equipment used in wetlands shall work during frozen ground conditions, from construction mats, or be designed and properly sized to not result in topsoil/subsoil mixing and/or soil rutting greater than 6 inches.

69. Construction mats placed in wetlands shall not be removed until final cleanup is complete.

70. All vehicles and equipment used in wetlands must be checked at least once per work day for fluid (e.g. fuel, oil, hydraulic, coolant, etc.) leaks. All leaks must be immediately corrected before the equipment is allowed back into operation.

71. Where permanent fill material is authorized, the project shall be constructed in a manner that will maintain wetland hydrology in the remaining wetland complex.

72. Large woody debris and brush piles resulting from clearing activities shall not be deposited in wetlands or floodplains. All attempts shall first be made to dispose of wood chips in uplands or off-site and not be placed within wetlands and floodplains. If disposal of wood chips outside of wetlands is not practicable, wood chips must be spread evenly (not piled), cannot exceed a 2-inch depth, and cannot result in wetland fill (i.e. restricting vegetation regrowth, alter surface elevations, or obstruct water flow) if spread in wetlands. Wood chips spread within wetlands shall be monitored to ensure the depth of chips does not exceed 2 inches and revegetation efforts are not impeded. If revegetation growth in wetlands becomes impeded from wood chip placement, the applicants shall provide a plan to the WDNR that details how revegetation will be addressed in these areas.

Independent Environmental Monitor (IEM) Conditions

73. You shall hire an IEM approved by the WDNR. The scope of work for the IEM shall be developed jointly with the PSC and WDNR.

74. Additional IEM responsibilities shall be determined by the WDNR and PSC after the IEM is hired.

75. You shall work with the WDNR and PSC to set a reporting and communication protocol for the IEM.

Construction Mitigation Plan (CMP) Conditions

76. You shall submit CMP's for each construction segment to the WDNR a minimum of 90 days prior to commencing construction, including clearing, in or across any waterway or wetland in that construction segment.

77. Each CMP shall be submitted to the WDNR in a hard copy and electronic format.

78. Each CMP shall include, at a minimum:
    a. Final sequencing and scheduling discussion for the project as a whole, including:
        i. how many construction segments the project will be broken up into;
        ii. which utility is responsible for which construction segments;
        iii. what regulatory subsegments make up each construction segment;
        iv. how the construction of each construction segment relate (i.e. will several construction segments be constructed at once, will a specific construction activity be conducted on all construction segments at once, such as clearing, etc.).
    b. Final sequencing and scheduling discussion for the construction segment in question, including:
        i. the anticipated duration of construction, including restoration activities;
        ii. the timing of the construction.
    c. GIS shapefiles for the construction segment, including structure locations, wetland matting locations, TCSB's, off-ROW access, and staging areas.
    d. Final access map - the map should include the following:
        i. an overview page showing the length of the construction segment in question and the page extent boxes;
        ii. the locations of access routes (on and off-ROW), wetland matting locations, TCSB's, delineated wetlands, delineated waterways, navigability determination requests (or results if applicable) of waterways, WDNR mapped waterways, final

pole locations and numbers, the right-of-way width, and which waterways will not be traversed by equipment.

e. Wetland and waterway crossings and impact minimization discussion, including:
    i. measures taken to avoid or minimize wetland impacts;
    ii. Identify which wetlands are considered significant or high quality and why,
    iii. provide details on sediment control BMP's that will be put in place for work occurring on steep slopes leading to wetlands and waterways;
    iv. provide details on the clearing plan for forested wetlands, including specifying the duration between clearing activities and mat placement/ice road building, what will be done with wood chips in wetlands, and how spreading of wood chips in wetlands will not impede restoration and revegetation;
f. Wetland crossings and impact minimization discussion.
g. Endangered Resources Plan.
h. Invasive Species Management Plan – the plan should include the following at a minimum:
    i. Specify when surveys for the presence and abundance of invasive species occurred,
    ii. Specify which areas of the project surveys were conducted in,
    iii. Identify all species that were surveyed for,
    iv. Provide a map showing the locations of invasive species found,
    v. Provide a table detailing the species, abundance, and location of invasive species found,
    vi. Identify measure that will be taken to minimize the spread of invasive species
i. Final Wetland Restoration and Revegetation Plan – the plan should include the following at a minimum:
    i. Detail how temporary and permanent stabilization will be achieved, including where cover crop seed will be used, where native seed will be used, and where no seeding will occur. If seeding will not be utilized, provide the factors considered on why seeding will not occur. This discussion should detail how restoration and revegetation activities may differ based on wetland type, wetland quality, and duration and timing of the construction impact. This discussion should be specific to wetland classes (high quality wetlands, lower quality and/or agricultural wetlands, wetlands previously forested, inundated wetlands, etc.).
    ii. Provide a timeline of when these temporary and permanent stabilization activities will occur,
    iii. Detail how temporary and permanent stabilization will occur for each season when construction ends, including winter stabilization,
    iv. Provide the seed mix tables,
    v. Detail how compacted and rutted soils will be restored,
    vi. Identify how restoration activities will be monitored for progress, including if seeded areas will be watered,
j. Post-Construction Monitoring Plan – the plan should include the following at a minimum:
    i. When post-construction monitoring will start;
    ii. Length of monitoring;
    iii. List of wetlands and waterways to be monitored;
    iv. Monitoring methodology;
    v. Monitoring performance standards;
    vi. Monitoring report submittal date and submittal format.

k. Revised WDNR Table 1 for the project as a whole, accounting for any wetland presence and boundary modifications made from the field investigation of desktop resource mapped wetlands, and for wetland and waterway impact and/or crossing modification made due to final design.
l. Fish timing restriction waiver request package for TCSB's on that construction segment that includes the following:
    i. photos of the waterways where a fish timing waiver review is requested (labeled with the unique ID);
    ii. narrative describing how the TCSB's will be installed and placed, any bed or bank disturbance associated;
    iii. when the TCSB's will be installed and removed (be as specific as possible);
    iv. duration they will be installed for;
    v. what sediment controls will be utilized to minimize impacts to the waterway during TCSB installation, use, and removal;
    vi. table with columns for the waterway unique feature ID, coordinates of the TCSB location, and county of the TCSB location.
m. Waterway navigability determination request package for that construction segment that includes the following:
    i. A table with columns for: the crossing unique ID, the WBIC for each waterway (found in the Surface Water Data Viewer or in the GIS data for the WDNR mapped waterways), coordinates for the waterway location in the ROW, waterway name, waterway characteristics from field investigation, and any other pertinent information or comments;
    ii. Site photographs, clearly labeled with the photo number, direction, and crossing unique ID. A short description of what the photo is showing and any field observation can also be included in the caption.

79. WDNR will issue a decision to approve or require changes to any CMP within 45 days of receipt of that CMP. Upon receipt of a CMP, WDNR will offer to meet with the applicants, if needed, within 30 days to provide comments and work with the applicants to resolve any issues.

80. Construction work affecting waterways or wetlands may not commence on any construction segment of the project until WDNR has provided written approval of the CMP for that construction segment.

81. You shall post an electronic version of each CMP on the applicant's project website for public review once each CMP is approved by the WDNR. The CMP shall remain on the website for the duration of the project.

82. Upon review of the CMP's, the WDNR can modify conditions of this permit, as needed.

83. Nothing in the CMP substitutes or restricts WDNR statutory authority to enforce its permit conditions and/or Wisconsin laws and environmental regulations, including its authority to require the cessation of unlawful activities causing environmental harm.

Restoration Conditions

84. Upon completion of the transmission line installation, all wetlands and waterways must be restored to pre-existing conditions, including pre-construction elevations and hydrology.

85. Site specific waterway and wetland restoration and management plans that are approved by the WDNR must be implemented by the applicants.

86. Final site stabilization in wetlands that were non-forested prior to construction and not identified as high quality wetlands, and on stream banks, requires re-establishment of vegetation at least 70 percent of the type, density, and distribution of the vegetation that was documented in the area prior to construction. If 70 percent of the type, density, and distribution of the vegetation that was documented in the area prior to construction does not vegetate naturally within 30 days, then an approved comprehensive seed mix and restoration practices must be used to reach the 70 percent cover. All temporary and final stabilization activities shall comply with NR 151.11(8), Wisconsin Administrative Code.

87. Final site stabilization in wetlands that were forested prior to construction shall include an approved comprehensive seed mix and must achieve a revegetation density of at least 70 percent cover.

88. In wetlands identified as high quality, a cover crop and/or native seed mix shall be used to prevent the establishment of invasive species.

89. After the site is 70% stabilized, all temporary erosion control measures must be removed and disposed of properly.

90. All construction waste materials and woody debris shall be removed. Any temporary erosion control devices, construction debris, or waste remaining after construction constitutes littering and may be enforced as determined necessary by the Department.

Post-Construction Monitoring Conditions

91. Post-Construction Monitoring Plans that are approved by the WDNR must be implemented by the applicants.

92. During the first full growing season after construction and restoration have been completed, you shall monitor and address all areas regulated by this permit where stabilization techniques have been implemented.

93. Post-construction waterway and wetland monitoring shall continue annually for a minimum of 5 years beyond the first year after construction, unless compliance is achieved and documented earlier.

94. You shall submit annual monitoring reports to the WDNR by December 31st of each year.

95. Each post-construction monitoring report shall include photographs of existing site conditions at waterways and wetlands before construction, taken from established photo points; photographs of

site conditions at waterways and wetlands after construction, taken from the same established photo points; a map showing the location of the established photo points; a wetland and waterway summary table showing the impact that occurred in each wetland and waterway (i.e. TCSB, clearing, matting, structure placement, etc.), wetland type, wetland quality description, and photo number; and shall document post-construction monitoring plan compliance, permit compliance, restoration status, corrective actions taken, and corrective actions proposed.

FINDINGS OF FACT

1. The applicants filed an application for a permit to place fill in wetland, permanently clear shrub and/or forested wetland, and to place temporary clean span bridges for the Cardinal Hickory Creek Project.

2. The Cardinal Hickory Creek Project is located in Grant, Iowa, and Dane Counties.

3. The project will consist of constructing a new 345 kilovolt (kV) transmission line from the existing Hickory Creek Substation in Dubuque County, Iowa, to the existing Cardinal Substation in Dane County, Wisconsin, construction of a new Hill Valley Substation in Grant County, and associated modifications to several existing substations.

4. ITC will act as the construction manager for the portion of the project from the Mississippi River to the Hill Valley Substation. ATC will act as the construction manager for the portion of the project from the Hill Valley Substation to the Cardinal Substation, as well as the owner of the new Hill Valley Substation. Dairyland Power Cooperative will be a part owner of the portion of the project from the Mississippi River to the Cardinal Substation.

5. The project will include 13.19 acres of temporary wetland fill from the placement of construction matting in wetland, 0.02 acres of permanent wetland fill from the placement of transmission line structures in wetland, permanently clear 4.60 acres of shrub and/or forested wetland, and the placement of 110 TCSB's, as shown in the attached WDNR Table 1 dated 10-16-2019.

6. The Department participated in a pre-application meeting on 1-11-2018 with the applicants and other state and federal agencies.

7. The Department participated in the CPCN application review process with the PSC, under PSC docket 5-CE-146. The CPCN was submitted on 4-30-2018 and was determined to be complete on 10-4-2018.

8. The PSC and WDNR held public scoping meetings in preparation for drafting an Environmental Impact Statement (EIS) in Dodgeville, WI on 11-8-2019, in Middleton, WI on 11-12-2018, and in Lancaster, WI on11-14-2018. The PSC and WDNR issued a Draft EIS on 3-1-2019, accepting public comments on the Draft EIS through 4-14-2019. The Final EIS was published on 5-8-2019. The EIS provided a description of the proposed project, described the existing environment, evaluated the system needs, evaluated system level alternatives, evaluated multiple transmission line routing alternatives, and described the socio-economic and environmental impacts expected from the proposed routes.

9. WDNR staff participated in the Technical Hearing held by the PSC from 6-17-2019 through 6-21-2019, providing expertise concerning the environmental impacts of the proposed routes and facilities.

10. Public hearings for the project were held in Lancaster, WI on 6-25-2019, in Madison, WI on 6-26-2019, and in Dodgeville, WI on 6-27-2019.

11. The PSC issued an Order for the project on 9-26-2019, approving the project and selecting the Nelson Dewey – North, Stoneman – North, Western – North, Eastern – South, Dane County, and Black Earth Creek – South routing area alternatives.

12. The Department reviewed and considered information presented in the application and supplemental submittals, GIS information, public comments, the EIS, wetland access routes, wetland fill locations, and impacts associated with construction.

13. The applicants will provide detailed CMP's for every construction segment a minimum of 90 days before construction for that segment.

14. The WDNR will review, comment, and provide a written response for every CMP within 45 days of receipt. Every CMP will be approved in writing by WDNR prior to the initiation of construction on the segment.

15. The WDNR will rely on IEM's to oversee activities related to its authority, document permit compliance, and streamline communication. Additional details of the roles and responsibilities of the IEM's will be coordinated with the PSC and determined prior to construction.

16. The attached WDNR Table 1 specifies the locations, regulated activities, and general construction requirements for each waterway and wetland crossing. This permit is predicated on a worst-case analysis of impacts and Permit Table 1 prescribes the most protective measure for each waterway and wetland impact.

17. This permit has been issued with the understanding that any construction equipment used is the right size to do the job and can be brought to and removed from the project's site without unreasonable harm to vegetative cover or fish or wildlife habitat.

18. A portion of the project is located on and adjacent to property owned by the State of Wisconsin, the Military Ridge State Trail. The applicants shall work with the Department's Real Estate Program and Property Manager/Trail Coordinator to secure the necessary approvals, agreements, and/or easements for the project prior to beginning work on the property.

19. The applicants shall will work with the local floodplain zoning authority(s) to ensure the project meets local floodplain ordinances.

20. The approval of TCSB's is limited to waterways that cannot be avoided by accessing from another landowner-approved location or across existing structures such as culverts and bridges.

21. The proposed project, if constructed in accordance with this permit, will avoid or minimize impacts to endangered resources pursuant to Wisconsin's Endangered Species Law (29.604, Wis. Stats.).

22. The proposed project, if constructed in accordance with this permit, will not adversely affect water quality, will not increase water pollution in surface waters, and will not cause environmental pollution as defined in s. 283.01(6m), Wis. Stats.

23. No material injury will result to the riparian rights of any riparian owners of real property that abuts any water body that is affected by the activity.

24. Compensatory wetland mitigation is not required for this project, per 281.36 (3n)(d)2, Wisconsin Statutes.

25. No practicable alternative exists which would avoid adverse impacts to wetlands, and the project will result in the least environmentally damaging practicable alternative taking into consideration practicable alternatives that avoid wetland impacts. Wetlands are present and cannot be avoided on the project route ordered by the PSC.

26. Based on the information provided by the applicant and the PSC, and the conditions of this permit, WDNR has determined that wetland impacts have been minimized to the extent practicable, and that there are no practicable alternatives to the wetland impacts and meets the water quality standards found in NR299.04, Wis. Admin. Code.

27. The project, if constructed in accordance with this permit, will not result in significant adverse impacts to wetland functional values, significant adverse impacts to water quality, or other significant adverse environmental consequences.

28. It is the final decision of WDNR that cooperation with the PSC in the preparation of the EIS and analysis of the alternatives for this project meets the requirements of s. 1.11, Wis. Stats., WEPA, and Ch. 150, Wis. Admin. Code.

29. WDNR and the applicants have completed all procedural requirements and the project as permitted will comply with all applicable requirements of Sections. 1.11, 30.025, 30.123, 182.017, 281.15, 281.36, Wis. Stats., and Chapters NR 102, 103, 115, 116, 117, 150, 299, and 320 of the Wis. Adm. Code, and Section 401 of the CWA.

CONCLUSIONS OF LAW

1. The Department has authority under the above indicated Statutes and Administrative Codes, to issue a permit for the construction of this project.

NOTICE OF APPEAL RIGHTS

If you believe that you have a right to challenge this decision, you should know that the Wisconsin statutes and administrative rules establish time periods within which requests to review Department decisions shall be filed. For judicial review of a decision pursuant to sections 227.52 and 227.53, Wis. Stats., you have 30 days after the decision is mailed, or otherwise served by the Department, to file your petition with the appropriate circuit court and serve the petition on the Department. Such a petition for judicial review shall name the Department of Natural Resources as the respondent.

To request a contested case hearing of any individual permit decision pursuant to section 30.209 and/or 281.36 (3q), Wis. Stats., you have 30 days after the decision is mailed, or otherwise served by the Department, to serve a petition for hearing on the Secretary of the Department of Natural Resources, P.O. Box 7921, Madison, WI, 53707-7921. The petition shall be in writing, shall be dated and signed by the petitioner, and shall include as an attachment a copy of the decision for which administrative review is sought. If you are not the applicant, you must simultaneously provide a copy of the petition to the applicant. If you wish to request a stay of the project, you must provide information, as outlined below, to show that a stay is necessary to prevent significant adverse impacts or irreversible harm to the environment. If you are not the permit applicant, you must provide a copy of the petition to the permit applicant at the same time that you serve the petition on the Department.

The filing of a request for a contested case hearing is not a prerequisite for judicial review and does not extend the 30 day period for filing a petition for judicial review.

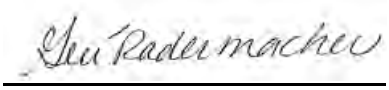
A request for contested case hearing must meet the requirements of section 30.209 and/or 281.36 (3q), Wis. Stats., and sections NR 2.03, 2.05, and 310.18, Wis. Admin. Code, and if the petitioner is not the applicant, the petition must include the following information:

1. A description of the objection that is sufficiently specific to allow the department to determine which provisions of this section(s) may be violated if the proposed permit is allowed to proceed.
2. A description of the facts supporting the petition that is sufficiently specific to determine how the petitioner believes the project, as proposed, may result in a violation of the provisions of this section(s).
3. A commitment by the petitioner to appear at the administrative hearing and present information supporting the petitioner's objection.

If the petition contains a request for a stay of the project, the petition must also include information showing that a stay is necessary to prevent significant adverse impacts or irreversible harm to the environment.

Dated at Department Headquarters in Waukesha, Wisconsin on 10-25-2019.

STATE OF WISCONSIN DEPARTMENT OF NATURAL RESOURCES
For the Secretary

By 

Geri Radermacher
Water Management Specialist

PSC DOCKET NUMBER: 5-CE-146

WDNR Table 1 - Wetland/Waterway Impact Location Table, 10-16-2019

Supplement Document to WDNR Form 3500-53. Check all that apply.

PSCW-Ordered Route (Note: use either Segment A or B+C, depending on the Mississippi River crossing approved by USFWS)

RESOURCE						CONSTRUCTION METHOD/ACTIVITY					LOCATION								RESOURCE IMPACT				DNR DOCKET [8]
						Waterway Impact Activity		Placement Structure/Fill Placement (square feet) [5]	Wetland Impact Activity														
Route/ Segment	Sub-segment [9]	Wetland Type or Waterway Name [1]	Feature Unique ID [2]	Navigability Determination Requested	Permit Required	Bridge [3]	Waterway crossing method [4]		Matting [6] (square feet)	Grading (square feet)	County	Municipality	QQ	Q	Section	Township (N), Range (E/W)	Latitude	Longitude	ASNRI	Temporary Fill (square feet)	Permanent Fill (square feet)	Conversion [7] (square feet)	
A	A01A	Mississippi River	A-R01			-	Avoided	-	-	-	Grant	Cassville	NE	SW	19	03N, 05W	42.720542	-91.007549		-	-	-	
A	A03	Furnance Branch	A-R02			-	Avoided	-	-	-	Grant	Cassville	SE	SW	17	03N, 05W	42.729153	-90.992189		-	-	-	
B	B01	Mississippi River	B-R01			-	Avoided	-	-	-	Grant	Cassville	SE	NW	29	03N, 05W	42.708699	-90.985914	-	-	-	-	
B	B02	UNT to Mississippi River	B-UNT1	yes	x	1	Assumed TCSB	-	-	-	Grant	Cassville	SW	NE	29	03N, 05W	42.709685	-90.985111	-	-	-	-	
C	C01	UNT to Mississippi River	C-UNT1-2	yes	x	1	Assumed TCSB	-	-	-	Grant	Cassville	SW	NE	20	03N, 05W	42.721571	-90.986498	-	-	-	-	
D	D01	Open water pond	D-W01			-	-	-	-	-	Grant	Cassville	SE	NW	16	03N, 05W	42.738534	-90.968733		-	-	-	
D	D04	Wet meadow	D-W02		x	-	-	95 (1 pole)	30,600	-	Grant	Cassville	NE	SW	1	03N, 05W	42.763163	-90.910212		30,600	95	-	
D	D04	Wet meadow	D-W03		x	-	-	-	1,300	-	Grant	Beetown	SE	NE	32	04N, 04W	42.779709	-90.861494		1,300	-	-	
D	D04	Forested deciduous wetland	D-W04		x	-	-	-	500	-	Grant	Beetown	SE	NE	32	04N, 04W	42.779785	-90.861623		500	-	2,105	
D	D04	Wet meadow	D-W05		x	-	-	-	22,450	-	Grant	Beetown	NE	SW	26	04N, 04W	42.790367	-90.811838		22,450	-	-	
D	D04	Forested deciduous wetland	D-W06		x	-	-	95 (1 pole)	29,400	-	Grant	Beetown	NE	SW	26	04N, 04W	42.790797	-90.810693		29,400	95	51,214	
D	D04	Wet meadow	D-W07		x	-	-	-	400	-	Grant	Beetown	NE	NE	25	04N, 04W	42.7987	-90.783408		400	-	-	
D	D04	Wet meadow	D-W08		x	-	-	-	3,500	-	Grant	South Lancaster	SE	NW	20	04N, 03W	42.806515	-90.756067		3,500	-	-	
D	D04	Wet meadow	D-W09		x	-	-	-	6,200	-	Grant	South Lancaster	SE	NW	20	04N, 03W	42.807343	-90.752729		6,200	-	-	
D	D04	Forested deciduous wetland	D-W10		x	-	-	-	5,000	-	Grant	South Lancaster	SE	NW	20	04N, 03W	42.807433	-90.752919		5,000	0	15,266	
D	D04	Open water pond	D-W11			-	-	-	-	-	Grant	South Lancaster	NW	NW	21	04N, 03W	42.810126	-90.740375		-	-	-	
D	D04	Wet meadow	D-W12		x	-	-	-	4,000	-	Grant	South Lancaster	NE	SW	15	04N, 03W	42.819592	-90.715283		4,000	-	-	
D	D04	Forested deciduous wetland	D-W13		x	-	-	-	2,800	-	Grant	South Lancaster	NE	SW	15	04N, 03W	42.819522	-90.715846		2,800	0	5,133	
D	D08	Wet meadow	D-W14		x	-	-	-	2,400	-	Grant	South Lancaster	NE	NE	12	04N, 03W	42.842382	-90.667112		2,400	-	-	
D	D08	Wet meadow	D-W15		x	-	-	-	2,900	-	Grant	Liberty	SW	SE	32	05N, 02W	42.857399	-90.63449		2,900	-	-	
D	D08	Wet meadow	D-W16		x	-	-	-	400	-	Grant	Liberty	SE	SE	32	05N, 02W	42.859554	-90.629952		400	-	-	
D	D08	Open water pond	D-W17		x	-	-	-	-	-	Grant	Liberty	NW	SW	33	05N, 02W	42.861757	-90.624759		-	-	-	
D	D08	Wet meadow	D-W18		x	-	-	-	600	-	Grant	Liberty	SE	NE	27	05N, 02W	42.88104	-90.588074		600	-	-	
D	D08	Wet meadow	D-W19		x	-	-	-	400	-	Grant	Liberty	SE	SW	23	05N, 02W	42.886068	-90.578321		400	-	-	
D	D08	Scrub/shrub deciduous wetland	D-W20		x	-	-	-	2,600	-	Grant	Liberty	NE	SE	23	05N, 02W	42.891837	-90.567003		2,600	-	-	
D	D08	Wet meadow	D-W21		x	-	-	-	2,800	-	Grant	Liberty	NE	SE	23	05N, 02W	42.891842	-90.566722		2,800	-	-	
D	D08	Wet meadow	D-W22		x	-	-	-	1,000	-	Grant	Liberty	SE	NW	24	05N, 02W	42.895607	-90.559119		1,000	-	-	
D	D08	Wet meadow	D-W23		x	-	-	-	10,750	-	Grant	Clifton	SW	SW	18	05N, 01W	42.902324	-90.544703		10,750	-	-	
D	D08	Wet meadow	D-W24		x	-	-	-	5,000	-	Grant	Clifton	NE	NW	17	05N, 01W	42.913292	-90.521036		5,000	-	-	
D	D08	Wet meadow	D-W25		x	-	-	95 (1 pole)	42,000	-	Grant	Clifton	SW	SE	8	05N, 01W	42.917899	-90.512028		42,000	95	-	
D	D08	Wet meadow	D-W26		x	-	-	95 (1 pole)	40,000	-	Grant	Clifton	NW	SW	9	05N, 01W	42.920263	-90.507206		40,000	95	-	
D	D08	Wet meadow	D-W29		x	-	-	-	1,200	-	Grant	Clifton	SE	NE	3	05N, 01W	42.937429	-90.471684		1,200	-	-	
D	D08	Wet meadow	D-W30		x	-	-	-	1,000	-	Grant	Clifton	NE	NW	2	05N, 01W	42.941348	-90.463059		1,000	-	-	
D	D08	Wet meadow	D-W31		x	-	-	-	3,400	-	Grant	Wingville	SE	SE	35	06N, 01W	42.946927	-90.449843		3,400	-	-	
D	D08	Wet meadow	D-W32		x	-	-	-	3,400	-	Grant	Wingville	NE	SW	36	06N, 01W	42.949961	-90.443425		3,400	-	-	
Off ROW D	D08 D-OR-77	Wet meadow	D-OR-77 (D-W25)		x	-	-	-	2,800	-	Grant	Clifton	SW	SE	8	05N, 01W	42.917899	-90.512028		2,800	-	-	
D	D01	UNT to Furnance Branch	D-UNT1	Yes	x	1	Assumed TCSB	-	-	-	Grant	Cassville	SW	NW	16	03N, 05W	42.737006	-90.973019		-	-	-	
D	D01	UNT to Furnance Branch	D-UNT2	Yes	x	1	Assumed TCSB	-	-	-	Grant	Cassville	NW	NE	16	03N, 05W	42.741061	-90.962797		-	-	-	
D	D01	UNT to Furnance Branch	D-UNT3	Yes	x	1	Assumed TCSB	-	-	-	Grant	Cassville	SE	SE	9	03N, 05W	42.742376	-90.959522		-	-	-	
D	D04	UNT to Rattlesnake Creek	D-UNT4	Yes	x	1	Assumed TCSB	-	-	-	Grant	Cassville	NE	SE	10	03N, 05W	42.749076	-90.942806		-	-	-	
D	D04	UNT to Rattlesnake Creek	D-R01			-	Avoided	-	-	-	Grant	Cassville	SE	NE	10	03N, 05W	42.750122	-90.940205		-	-	-	
D	D04	UNT to Rattlesnake Creek	D-UNT5	Yes	x	1	Assumed TCSB	-	-	-	Grant	Cassville	NW	NE	11	03N, 05W	42.75653	-90.924791					
D	D04	UNT to Rattlesnake Creek	D-R02-1			-	Avoided	-	-	-	Grant	Cassville	SW	SW	1	03N, 05W	42.759437	-90.918271		-	-	-	
D	D04	Rattlesnake Creek	D-R03-1			-	Avoided	-	-	-	Grant	Cassville	SW	NE	1	03N, 05W	42.761824	-90.912997		-	-	-	
D	D04	Rattlesnake Creek	D-R03-2			-	Avoided	-	-	-	Grant	Cassville	SW	NE	1	03N, 05W	42.764357	-90.907404		-	-	-	
D	D04	Rattlesnake Creek	D-R03-3			-	Avoided	-	-	-	Grant	Cassville	SW	NE	1	03N, 05W	42.767743	-90.900189		-	-	-	
D	D04	Rattlesnake Creek	D-UNT6-1	Yes	x	1	Assumed TCSB	-	-	-	Grant	Cassville	NE	SW	10	03N, 05W	42.762917	-90.910583		-	-	-	
D	D04	Rattlesnake Creek	D-UNT6-2	Yes	x	1	Assumed TCSB	-	-	-	Grant	Cassville	NE	SW	10	03N, 05W	42.763416	-90.909481		-	-	-	
D	D04	UNT to Rattlesnake Creek	D-R04			-	Avoided	-	-	-	Grant	Waterloo	NW	NW	6	03N, 04W	42.768789	-90.897932		-	-	-	
D	D04	UNT to Grant River	D-R05			-	Avoided	-	-	-	Grant	Beetown	SW	SE	31	04N, 04W	42.772497	-90.88749		-	-	-	
D	D04	UNT to Grant River	D-R06			-	Avoided	-	-	-	Grant	Beetown	SW	SE	31	04N, 04W	42.773239	-90.884847		-	-	-	
D	D04	Beetown Branch	D-R07			-	Avoided	-	-	-	Grant	Beetown	NE	SW	32	04N, 04W	42.776243	-90.874151		-	-	-	
D	D04	UNT to Grant River	D-R08			-	Existing Crossing (Culvert)	-	-	-	Grant	Beetown	SE	NE	32	04N, 04W	42.779754	-90.861521		-	-	-	
D	D04	Grant River	D-R09-1			-	Avoided	-	-	-	Grant	Beetown	SW	SE	27	04N, 04W	42.784261	-90.842623		-	-	-	
D	D04	Grant River	D-R09-2			-	Avoided	-	-	-	Grant	Beetown	SW	SE	27	04N, 04W	42.784976	-90.837296		-	-	-	
D	D04	Grant River	D-R09-3			-	Avoided	-	-	-	Grant	Beetown	SW	SE	27	04N, 04W	42.785285	-90.835052		-	-	-	
D	D04	Grant River	D-R09-4			-	Avoided	-	-	-	Grant	Beetown	SW	SE	27	04N, 04W	42.785735	-90.832521		-	-	-	
D	D04	Grant River	D-R09-5			-	Avoided	-	-	-	Grant	Beetown	SW	SE	27	04N, 04W	42.786181	-90.829484		-	-	-	
D	D04	Pigeon Creek	D-R10			-	Avoided	-	-	-	Grant	Beetown	NE	SW	26	04N, 04W	42.790116	-90.812813		-	-	-	
D	D04	UNT to Pigeon Creek	D-UNT7	Yes	x	1	Assumed TCSB	-	-	-	Grant	Beetown	NW	SE	26	04N, 04W	42.790534	-90.811405		-	-	-	
D	D04	UNT to Pigeon Creek	D-R11			-	Avoided	-	-	-	Grant	Beetown	NE	SE	26	04N, 04W	42.792554	-90.804594		-	-	-	
D	D04	UNT to Pigeon Creek	D-R12			-	Avoided	-	-	-	Grant	Beetown	SW	NW	25	04N, 04W	42.793722	-90.800653		-	-	-	
D	D04	UNT to Pigeon Creek	D-R13			-	Avoided	-	-	-	Grant	South Lancaster	NW	SE	19	04N, 03W	42.803034	-90.768583		-	-	-	
D	D04	UNT to Pigeon Creek	D-R14			-	Avoided	-	-	-	Grant	South Lancaster	NE	SE	19	04N, 03W	42.80454	-90.763127		-	-	-	
D	D04	UNT to Pigeon Creek	D-R15			-	Avoided	-	-	-	Grant	South Lancaster	NW	SW	20	04N, 03W	42.805861	-90.758338		-	-	-	
D	D04	Pigeon Creek	D-R16-1			-	Avoided	-	-	-	Grant	South Lancaster	SE	NW	20	04N, 03W	42.806421	-90.75631		-	-	-	
D	D04	Pigeon Creek	D-R16-2			-	Avoided	-	-	-	Grant	South Lancaster	SE	NW	20	04N, 03W	42.80735	-90.752942		-	-	-	
D	D04	Pigeon Creek	D-R16-3			-	Avoided	-	-	-	Grant	South Lancaster	SE	NW	20	04N, 03W	42.808753	-90.747482		-	-	-	
D	D04	Pigeon Creek	D-R16-4			-	Avoided	-	-	-	Grant	South Lancaster	SE	NW	20	04N, 03W	42.80898	-90.746196		-	-	-	
D	D04	UNT to Pigeon Creek	D-R17		x	1	TCSB	-	-	-	Grant	South Lancaster	SW	NE	20	04N, 03W	42.808156	-90.750019		-	-	-	
D	D04	UNT to Pigeon Creek	D-UNT18	Yes	x	1	Assumed TCSB	-	-	-	Grant	South Lancaster	NW	NW	21	04N, 03W	42.809875	-90.741127		-	-	-	
D	D04	Pigeon Creek	D-R18		x	1	TCSB	-	-	-	Grant	South Lancaster	SW	NW	21	04N, 03W	42.810179	-90.739402		-	-	-	
D	D04	UNT to Pigeon Creek	D-R19			-	Avoided	-	-	-	Grant	South Lancaster	NE	NW	21	04N, 03W	42.810886	-90.735394		-	-	-	
D	D04	UNT to Pigeon Creek	D-R20			-	Avoided	-	-	-	Grant	South Lancaster	NW	SW	15	04N, 03W	42.817037	-90.720584		-	-	-	
D	D04	UNT to Pigeon Creek	D-R21			-	Avoided	-	-	-	Grant	South Lancaster	NE	SW	15	04N, 03W	42.819614	-90.715292		-	-	-	
D	D08	Austin Branch	D-R22			-	Avoided	-	-	-	Grant	South Lancaster	SE	NW	12	04N, 03W	42.838683	-90.675064	x (trout stream)	-	-	-	
D	D08	UNT to Moore Branch	D-R23			-	Avoided	-	-	-	Grant	South Lancaster	NE	NE	12	04N, 03W	42.841953	-90.668109		-	-	-	
D	D08	Moore Branch	D-R24			-	Avoided	-	-	-	Grant	South Lancaster	NE	NE	12	04N, 03W	42.842115	-90.667758		-	-	-	
D	D08	UNT to Moore Branch	D-R25			-	Avoided	-	-	-	Grant	Ellenboro	SW	SW	6	04N, 02W	42.845249	-90.660882		-	-	-	
D	D08	UNT to Platte River	D-UNT8	Yes	x	1	Assumed TCSB	-	-	-	Grant	Ellenboro	NW	SE	6	04N, 02W	42.849073	-90.652626		-	-	-	

RESOURCE						CONSTRUCTION METHOD/ACTIVITY					LOCATION								RESOURCE IMPACT				
						Waterway Impact Activity			Wetland Impact Activity														
Route/ Segment	Sub-segment [9]	Wetland Type or Waterway Name [1]	Feature Unique ID [2]	Navigability Determination Requested	Permit Required	Bridge [3]	Waterway crossing method [4]	Placement Structure/Fill Placement (square feet) [5]	Matting [6] (square feet)	Grading (square feet)	County	Municipality	QQ	Q	Section	Township (N), Range (E/W)	Latitude	Longitude	ASNRI	Temporary Fill (square feet)	Permanent Fill (square feet)	Conversion [7] (square feet)	DNR DOCKET [8]
D	D08	UNT to Platte River	D-R26-1			-	Avoided	-	-	-	Grant	Liberty	SW	SE	32	05N, 02W	42.857163	-90.635128		-	-	-	
D	D08	UNT to Platte River	D-R26-2			-	Avoided	-	-	-	Grant	Liberty	SW	SE	32	05N, 02W	42.857396	-90.634624		-	-	-	
D	D08	UNT to Platte River	D-R26-3			-	Avoided	-	-	-	Grant	Liberty	SW	SE	32	05N, 02W	42.857702	-90.633961		-	-	-	
D	D08	UNT to Platte River	D-UNT9	Yes	x	1	Assumed TCSB	-	-	-	Grant	Liberty	SE	SE	32	05N, 02W	42.859506	-90.630054		-	-	-	
D	D08	UNT to Platte River	D-UNT10	Yes	x	1	Assumed TCSB	-	-	-	Grant	Liberty	NW	SW	33	05N, 02W	42.861884	-90.624906		-	-	-	
D	D08	UNT to Platte River	D-R27			-	Avoided	-	-	-	Grant	Liberty	SW	NE	33	05N, 02W	42.867087	-90.614409		-	-	-	
D	D08	UNT to Platte River	D-R28		x	1	TCSB	-	-	-	Grant	Liberty	SW	NE	33	05N, 02W	42.867644	-90.613325		-	-	-	
D	D08	UNT to Platte River	D-UNT11	Yes	x	1	Assumed TCSB	-	-	-	Grant	Liberty	NW	SE	27	05N, 02W	42.877725	-90.594068		-	-	-	
D	D08	UNT to Platte River	D-UNT12	Yes	x	1	Assumed TCSB	-	-	-	Grant	Liberty	SE	NE	27	05N, 02W	42.88101	-90.588098		-	-	-	
D	D08	UNT to Platte River	D-UNT13	Yes	x	1	Assumed TCSB	-	-	-	Grant	Liberty	NE	NW	26	05N, 02W	42.88602	-90.578446		-	-	-	
D	D08	Platte River	D-R29-1			-	Avoided	-	-	-	Grant	Liberty	SW	SE	23	05N, 02W	42.889213	-90.572523	x (trout stream)	-	-	-	
D	D08	Platte River	D-R29-2			-	Avoided	-	-	-	Grant	Liberty	SW	SE	23	05N, 02W	42.890555	-90.569905	x (trout stream)	-	-	-	
D	D08	Platte River	D-R29-3			-	Avoided	-	-	-	Grant	Liberty	SW	SE	23	05N, 02W	42.893429	-90.563727	x (trout stream)	-	-	-	
D	D08	UNT to Platte River	D-UNT14-1	Yes	x	1	Assumed TCSB	-	-	-	Grant	Liberty	NE	SE	23	05N, 02W	42.891866	-90.567067		-	-	-	
D	D08	UNT to Platte River	D-UNT15-1	Yes	x	1	Assumed TCSB	-	-	-	Grant	Liberty	SW	NW	24	05N, 02W	42.893836	-90.562859		-	-	-	
D	D08	Platte River	D-R30-1			-	Avoided	-	-	-	Grant	Liberty	SE	SE	13	05N, 02W	42.895661	-90.558964	x (trout stream)	-	-	-	
D	D08	Platte River	D-R30-2			-	Avoided	-	-	-	Grant	Liberty	SE	SE	13	05N, 02W	42.898462	-90.552985	x (trout stream)	-	-	-	
D	D08	Platte River	D-R30-3			-	Avoided	-	-	-	Grant	Liberty	SE	SE	13	05N, 02W	42.898796	-90.552274	x (trout stream)	-	-	-	
D	D08	Platte River	D-R30-4		x	1	TCSB	-	-	-	Grant	Liberty	SE	SE	13	05N, 02W	42.899678	-90.550393	x (trout stream)	-	-	-	
D	D08	Platte River	D-R30-5			-	Avoided	-	-	-	Grant	Liberty	SE	SE	13	05N, 02W	42.899966	-90.549778	x (trout stream)	-	-	-	
D	D08	Platte River	D-R30-6			-	Avoided	-	-	-	Grant	Liberty	SE	SE	13	05N, 02W	42.900118	-90.549455	x (trout stream)	-	-	-	
D	D08	Platte River	D-R30-7			-	Avoided	-	-	-	Grant	Liberty	SE	SE	13	05N, 02W	42.900339	-90.548983	x (trout stream)	-	-	-	
D	D08	UNT to Platte River	D-R31			-	Avoided	-	-	-	Grant	Clifton	NE	NW	17	05N, 01W	42.91494	-90.518112		-	-	-	
D	D08	Platte River	D-R32-1			-	Avoided	-	-	-	Grant	Clifton	SW	SE	8	05N, 01W	42.9207	-90.506297	x (trout stream)	-	-	-	
D	D08	Platte River	D-R32-2			-	Avoided	-	-	-	Grant	Clifton	SW	SE	8	05N, 01W	42.921004	-90.505674	x (trout stream)	-	-	-	
D	D08	Martinville Creek	D-R33			-	Avoided	-	-	-	Grant	Clifton	SE	NW	9	05N, 01W	42.922983	-90.501614	x (trout stream)	-	-	-	
D	D08	UNT to Platte River	D-R34			-	Avoided	-	-	-	Grant	Clifton	SE	NE	3	05N, 01W	42.937415	-90.471752		-	-	-	
D	D08	UNT to Platte River	D-UNT16	Yes	x	1	Assumed TCSB	-	-	-	Grant	Clifton	NW	NW	2	05N, 01W	42.941294	-90.463076		-	-	-	
D	D08	UNT to Platte River	D-UNT17	Yes	x	1	Assumed TCSB	-	-	-	Grant	Wingville	SE	SE	35	06N, 01W	42.94675	-90.449902		-	-	-	
D	D08	Platte River	D-R35			-	Avoided	-	-	-	Grant	Wingville	NE	SW	36	06N, 01W	42.94992	-90.443507	x (trout stream)	-	-	-	
Off ROW D	A03, D01 D-OR-001	UNT to Mississippi River	D-OR-001 (D-OR-001-UNT1)	Yes	x	1	Assumed TCSB	-	-	-	Grant	Cassville	SE	SE	17	03N, 05W	42.73114	-90.979376		-	-	-	
Off ROW D	A03, D01 D-OR-001	UNT to Mississippi River	D-OR-001 (D-OR-001-UNT2)	Yes	x	1	Assumed TCSB	-	-	-	Grant	Cassville	NE	NE	20	03N, 05W	42.725368	-90.981522		-	-	-	
Off ROW D	D04 D-OR-010	UNT to Rattlesnake Creek	D-OR-010 (D-R02-2)		x	1	TCSB	-	-	-	Grant	Cassville	NE	SE	2	03N, 05W	42.788891	-90.830807		-	-	-	
Off ROW D	D04 D-OR-010	Rattlesnake Creek	D-OR-010 (D-OR-R05)		x	1	TCSB	-	-	-	Grant	Cassville	NW	SW	10	03N, 05W	42.762772	-90.918009		-	-	-	
Off ROW D	D04 D-OR-011	Rattlesnake Creek	D-OR-011 (D-UNT6-3)	Yes	x	1	Assumed TCSB	-	-	-	Grant	Cassville	NE	SW	10	03N, 05W	42.762935	-90.911312		-	-	-	
Off ROW D	D04 D-OR-012	Rattlesnake Creek	D-OR-12 (D-OR-R04)		x	1	TCSB	-	-	-	Grant	Cassville	SW	NE	10	03N, 05W	42.767129	-90.905761		-	-	-	
Off ROW D	D04 D-OR-020	UNT to Grant River	D-OR-020 D-OR-020-UNT1-1	Yes	x	1	Assumed TCSB	-	-	-	Grant	Beetown	SW	SE	27	04N, 04W	42.788891	-90.830807		-	-	-	
Off ROW D	D04 D-OR-020	UNT to Grant River	D-OR-020 D-OR-020-UNT1-2	Yes	x	1	Assumed TCSB	-	-	-	Grant	Beetown	SW	SE	27	04N, 04W	42.786922	-90.830597		-	-	-	
Off ROW D	D04 D-OR-20	Grant River	D-OR-20 (D-OR-R01)		x	1	TCSB	-	-	-	Grant	Wingville	NE	NW	34	04N, 04W	42.785084	-90.83499		-	-	-	
Off ROW D	D04 D-OR-033	UNT to Pigeon Creek	D-OR-033 (D-OR-033-UNT1)	Yes	x	1	Assumed TCSB	-	-	-	Grant	South Lancaster	SE	NE	20	04N, 03W	42.808062	-90.744707		-	-	-	
Off ROW D	D04 D-OR-036	Pigeon Creek	D-OR-36 (D-OR-R02)		x	1	TCSB	-	-	-	Grant	South Lancaster	SW	NW	21	04N, 03W	42.809646	-90.741225		-	-	-	
Off ROW D	D08 D-OR-066	UNT to Platte River	D-OR-066 (D-OR-066-UNT1)	Yes	x	1	Assumed TCSB	-	-	-	Grant	Liberty	NW	NW	25	05N, 02W	42.882667	-90.563095		-	-	-	
Off ROW D	D08 D-OR-072	UNT to Platte River	D-OR-072 (D-OR-072-UNT1)	Yes	x	1	Assumed TCSB	-	-	-	Grant	Liberty	NE	SW	18	05N, 01W	42.907624	-90.540056		-	-	-	
Off ROW D	D08 D-OR-067	UNT to Platte River	D-OR-067 (D-UNT14-2)	Yes	x	1	Assumed TCSB	-	-	-	Grant	Liberty	NE	SE	23	05N, 02W	42.89135	-90.56627		-	-	-	
Off ROW D	D08 D-OR-068	UNT to Platte River	D-OR-068 (D-UNT15-2)	Yes	x	1	Assumed TCSB	-	-	-	Grant	Liberty	SW	NW	24	05N, 02W	42.893446	-90.561926		-	-	-	
N	N03	UNT to Platte River	N-UNT1-1	Yes	x	1	Assumed TCSB	-	-	-	Iowa	Eden	NW	SW	30	T6N, R1E	42.965677	-90.424905		-	-	-	
Q	Q01	Badger Hollow Creek	Q-UNT1	Yes	x	1	Assumed TCSB	-	-	-	Iowa	Eden	NE	SE	30	T6N, R1E	42.966021	-90.41435		-	-	-	
Q	Q02	Wet Meadow/ Hardwood Swamp	Q-W1		x	-	-	95 (1 pole)	32,030	-	Iowa	Eden	SE	NW	26	T6N, R1E	42.968562	-90.34021		32,030	95	-	
Q	Q02	UNT to Pecatonica River	Q-R01		x	1	TCSB	-	-	-	Iowa	Eden	SE	NW	26	T6N, R1E	42.968481	-90.340259		-	-	-	
Q	Q02	Shrub carr/ Shallow Marsh	Q-W3		x	-	-	-	3,110	-	Iowa	Cobb	SW	NW	25	T6N, R1E	42.969997	-90.326084		3,110	-	-	
Q	Q02	Pecatonica River	Q-R02		x	1	TCSB	-	-	-	Iowa	Cobb	SW	NW	25	T6N, R1E	42.96998	-90.326123		-	-	-	
Q	Q02	Shrub carr/ Shallow Marsh	Q-W3a		x	-	-	-	4,310	-	Iowa	Cobb	SW	NW	25	T6N, R1E	42.969668	-90.326396		4,310	-	1,972	
Q	Q02	Pecatonica River	Q-R02a		x	1	TCSB	-	-	-	Iowa	Cobb	SW	NW	25	T6N, R1E	42.969702	-90.326291		-	-	-	
Q	Q02	Wet Meadow	Q-W4		x	-	-	-	5,100	-	Iowa	Cobb	SE	NW	25	T6N, R1E	42.968389	-90.322136		5,100	-	-	
Q	Q02	UNT to Pecatonica River	Q-UNT2	Yes	x	1	Assumed TCSB	-	-	-	Iowa	Cobb	SE	NW	25	T6N, R1E	42.968462	-90.322122		-	-	-	
Q	Q02	Sudan Branch	Q-UNT3	Yes	x	1	Assumed TCSB	-	-	-	Iowa	Linden	SW	NE	30	T6N, R2E	42.9678	-90.298147	x (trout stream)	-	-	-	
Q	Q02	UNT to Laxey Creek	Q-UNT4	Yes	x	1	Assumed TCSB	-	-	-	Iowa	Linden	NW	SW	27	T6N, R2E	42.967849	-90.241685		-	-	-	
Q	Q02	UNT to Laxey Creek	Q-UNT5	Yes	x	1	Assumed TCSB	-	-	-	Iowa	Linden	SW	NW	26	T6N, R2E	42.969559	-90.231083		-	-	-	
Q	Q02	UNT to Laxey Creek	Q-UNT6	Yes	x	1	Assumed TCSB	-	-	-	Iowa	Linden	SW	NE	26	T6N, R2E	42.970824	-90.221194		-	-	-	
Q	Q02	Wet Meadow	Q-W5		x	-	-	-	2,000	-	Iowa	Linden	NE	NE	26	T6N, R2E	42.971465	-90.213031		2,000	-	-	
Q	Q02	Laxey Creek	Q-R03		x	1	TCSB	-	-	-	Iowa	Linden	NE	NE	26	T6N, R2E	42.971527	-90.212952		-	-	-	
Q	Q02	UNT to Laxey Creek	Q-UNT7	Yes	x	1	Assumed TCSB	-	-	-	Iowa	Dodgeville	NW	NE	30	T6N, R3E	42.974284	-90.181535		-	-	-	
Q	Q02	UNT to Mineral Point Branch	Q-UNT8	Yes	x	1	Assumed TCSB	-	-	-	Iowa	Dodgeville	NW	NW	29	T6N, R3E	42.974305	-90.169426		-	-	-	
Q	Q02	Wet Meadow	Q-W06		x	-	-	-	2,310	-	Iowa	Dodgeville	NW	NE	29	T6N, R3E	42.974334	-90.16177		2,310	-	-	
Q	Q02	UNT to Mineral Point Branch	Q-R04		x	1	TCSB	-	-	-	Iowa	Dodgeville	NW	NE	29	T6N, R3E	42.974352	-90.16195		-	-	-	
Q	Q02	Mineral Point Branch	Q-R05		x	1	TCSB	-	-	-	Iowa	Dodgeville	NW	NW	28	T6N, R3E	42.974433	-90.151889		-	-	-	
Q	Q02	Wet Meadow	Q-W7		x	-	-	-	6,180	-	Iowa	Dodgeville	NE NW	NE NW	29 28	T6N, R3E	42.974362	-90.152547		6,180	-	-	
Q	Q04	Wet Meadow/Shallow Marsh	Q-W8		x	-	-	-	200	-	Iowa	Dodgeville	NE	NE	28	T6N, R3E	42.972315	-90.133043		200	-	-	
Q	Q04	UNT to Dodge Branch	Q-UNT9	Yes	x	1	Assumed TCSB	-	-	-	Iowa	Dodgeville	NE	NE	28	T6N, R3E	42.9725	-90.133126		-	-	-	
Q	Q05	Wet Meadow	Q-W9		x	-	-	95 (1 pole)	30,880	-	Iowa	Dodgeville	NE NW	NW NE	27	T6N, R3E	42.971952	-90.122939		30,880	95	-	
Q	Q05	UNT to Dodge Branch	Q-R06		x	1	TCSB	-	-	-	Iowa	Dodgeville	NE NW	NE NE	27	T6N, R3E	42.972051	-90.123388		-	-	-	
Q	Q05	Sedge Meadow/Wet Meadow/Hardwood Swamp	Q-W10		x	-	-	-	10,450	-	Iowa	Dodgeville	SE	NE	27	T6N, R3E	42.969585	-90.114384		10,450	-	17,126	

RESOURCE						CONSTRUCTION METHOD/ACTIVITY					LOCATION								RESOURCE IMPACT				DNR DOCKET [8]
						Waterway Impact Activity		Placement Structure/Fill Placement (square feet) [5]	Wetland Impact Activity														
Route/ Segment	Sub-segment [9]	Wetland Type or Waterway Name [1]	Feature Unique ID [2]	Navigability Determination Requested	Permit Required	Bridge [3]	Waterway crossing method [4]		Matting [6] (square feet)	Grading (square feet)	County	Municipality	QQ	Q	Section	Township (N), Range (E/W)	Latitude	Longitude	ASNRI	Temporary Fill (square feet)	Permanent Fill (square feet)	Conversion [7] (square feet)	
Q	Q05	UNT to Dodge Branch	Q-R07-1		x	1	TCSB	-	-	-	Iowa	Dodgeville	SE SW	NE NW	27 26	T6N, R3E	42.969745	-90.114536		-	-	-	
Q	Q05	Shallow Marsh	Q-W11		x	-	-	-	4,650	-	Iowa	Dodgeville	SE SW	NE NW	27 26	T6N, R3E	42.968825	-90.112679		4,650	-	-	
Q	Q05	UNT to Dodge Branch	Q-UNT10	Yes	x	1	Assumed TCSB	-	-	-	Iowa	Dodgeville	SE SW SE	NE NW NE	27 26 27	T6N, R3E	42.969441	-90.113843		-	-	-	
Q	Q06	UNT to Dodge Branch	Q-UNT11	Yes	x	1	Assumed TCSB	-	-	-	Iowa	Dodgeville	NW	SE	26	T6N, R3E	42.967144	-90.101414		-	-	-	
S	S01	UNT to Dodge Branch	S-R01		x	1	TCSB	-	-	-	Iowa	Dodgeville	SW	NW	25	T6N, R3E	42.967908	-90.092432		-	-	-	
S	S01	UNT to Dodge Branch	S-UNT1	Yes	x	1	Assumed TCSB	-	-	-	Iowa	Dodgeville	SW	NE	25	T6N, R3E	42.967094	-90.077204		-	-	-	
S	S01	Sedge Meadow	S-W01		x	-	-	-	870	-	Iowa	Dodgeville	SW NW	NW SW	30	T6N, R4E	42.966845	-90.07003		870	-	-	
S	S01	UNT to Dodge Branch	S-R02		x	1	TCSB	-	-	-	Iowa	Dodgeville	SW NW	NW SW	30	T6N, R4E	42.966997	-90.070012		-	-	-	
S	S09	UNT to Smith Conley Creek	S-R03		x	1	TCSB	-	-	-	Iowa	Ridgeway	SE	NW	14	T6N, R4E	42.995038	-89.989872		-	-	-	
S	S09	UNT to Smith Conley Creek	S-R04			-	Avoided	-	-	-	Iowa	Ridgeway	SE	NW	14	T6N, R4E	42.995097	-89.989522		-	-	-	
S	S09	UNT to Smith Conley Creek	S-R05			-	Avoided	-	-	-	Iowa	Ridgeway	SE	NW	14	T6N, R4E	42.995032	-89.989627		-	-	-	
S	S09	Wet Meadow	S-W02		x	-	-	-	430	-	Iowa	Ridgeway	SW	NE	14	T6N, R4E	42.996829	-89.984049		430	-	-	
S	S09	UNT to Smith Conley Creek	S-R06		x	1	TCSB	-	-	-	Iowa	Ridgeway	SW	NE	14	T6N, R4E	42.996896	-89.983957		-	-	-	
S	S09	UNT to Smith Conley Creek	S-R07		x	1	TCSB	-	-	-	Iowa	Ridgeway	NE	NE	14	T6N, R4E	43.000191	-89.980153		-	-	-	
S	S09	UNT to Smith Conley Creek	S-R08		x	1	TCSB	-	-	-	Iowa	Brigham	NW	SW	7	T6N, R5E	43.00823	-89.954165		-	-	-	
S	S12	Wet Meadow	S-W03		x	-	-	-	540	-	Iowa	Barneveld	NW	SE	9	T6N, R5E	43.008581	-89.904507		540	-	-	
S	S12	UNT to East Branch Pecatonica River	S-UNT2	Yes	x	1	Assumed TCSB	-	-	-	Iowa	Barneveld	NW	SE	9	T6N, R5E	43.008485	-89.904478		-	-	-	
S	S12	Shrub Carr	S-W04		x	-	-	-	2,010	-	Iowa	Barneveld	NE	SE	9	T6N, R5E	43.008529	-89.899442		2,010	-	-	
S	S12	UNT to East Branch Pecatonica River	S-R10		x	1	TCSB	-	-	-	Iowa	Brigham	NE	SE	9	T6N, R5E	43.008543	-89.899412		-	-	-	
S	S12	Wet Meadow	S-W05		x	-	-	-	1,360	-	Iowa	Barneveld	NW	SW	10	T6N, R5E	43.009156	-89.897687		1,360	-	-	
S	S12	UNT to East Branch Pecatonica River	S-R11		x	1	TCSB	-	-	-	Iowa	Brigham	NW	SW	10	T6N, R5E	43.009283	-89.897681		-	-	-	
S	S13	UNT to East Branch Pecatonica River	S-R12		x	1	TCSB	-	-	-	Iowa	Barneveld	SE	NW	10	T6N, R5E	43.009938	-89.891873		-	-	-	
S	S13	UNT to Williams-Barneveld Creek	S-UNT3	Yes	x	1	Assumed TCSB	-	-	-	Iowa	Barneveld	SE	NW	10	T6N, R5E	43.01018	-89.888887		-	-	-	
S	S13	East Branch Pecatonica River	S-R14-1			-	Avoided	-	-	-	Iowa	Brigham	SE	NE	10	T6N, R5E	43.009978	-89.878623		-	-	-	
S	S13	Wet Meadow	S-W07		x	-	-	-	2,170	-	Iowa	Brigham	NW	SE	11	T6N, R5E	43.009146	-89.867704		2,170	-	-	
S	S13	UNT to East Branch Pecatonica River	S-R15		x	1	TCSB	-	-	-	Iowa	Brigham	NE	SW	11	T6N, R5E	43.009598	-89.872864		-	-	-	
S	S13	UNT to East Branch Pecatonica River	S-R16		x	1	TCSB	-	-	-	Iowa	Brigham	NW	SE	11	T6N, R5E	43.009198	-89.867608		-	-	-	
S	S13	UNT to Williams-Barneveld Creek	S-R17		x	1	TCSB	-	-	-	Iowa	Brigham	NE	SE	11	T6N, R5E	43.008828	-89.858768		-	-	-	
S	S13	Shrub Carr	S-W08		x	-	-	-	1,390	-	Iowa	Brigham	NE	SW	12	T6N, R5E	43.00918	-89.850195		1,390	-	-	
S	S13	UNT to Williams-Barneveld Creek	S-UNT4	Yes	x	1	Assumed TCSB	-	-	-	Iowa	Brigham	NE	SW	12	T6N, R5E	43.009201	-89.850261		-	-	-	
S	S13	Wet Meadow	S-W09		x	-	-	-	1,250	-	Iowa	Brigham	NW	SE	12	T6N, R5E	43.009665	-89.843613		1,250	-	-	
S	S13	UNT to Williams-Barneveld Creek	S-R18			-	Avoided	-	-	-	Iowa	Brigham	NW	SE	12	T6N, R5E	43.009625	-89.842923		-	-	-	
S	S13	UNT to Williams-Barneveld Creek	S-R19		x	1	TCSB	-	-	-	Iowa	Brigham	NE	SE	12	T6N, R5E	43.009654	-89.841185		-	-	-	
S	S13	Shrub Carr/ Fresh Wet Meadow/ Farmed Wetland	S-W10		x	-	-	-	8,780	-	Dane	Blue Mounds	NW	SW	7	T6N, R6E	43.009792	-89.836542		8,780	-	13,594	
S	S13	Williams-Barneveld Creek	S-R20		x	1	TCSB	-	-	-	Dane	Blue Mounds	NW	SW	7	T6N, R6E	43.009837	-89.836873	x	-	-	-	
S	S13	Wet Meadow	S-W11		x	-	-	-	1,780	-	Dane	Blue Mounds	NE	SW	7	T6N, R6E	43.009873	-89.830147		1,780	-	-	
S	S13	UNT to Williams-Barneveld Creek	S-R21		x	1	TCSB	-	-	-	Dane	Blue Mounds	NE	SW	7	T6N, R6E	43.00996	-89.83009		-	-	-	
S	S13	Wet Meadow	S-W12		x	-	-	-	2,280	-	Dane	Blue Mounds	NE	SE	7	T6N, R6E	43.009885	-89.820171		2,280	-	-	
S	S13	UNT to Gordon Creek	S-R22		x	1	TCSB	-	-	-	Dane	Blue Mounds	NE	NE	7	T6N, R6E	43.009979	-89.820183		-	-	-	
S	S13	Gordon Creek	S-R23		x	1	TCSB	-	-	-	Dane	Blue Mounds	NE	SW	8	T6N, R6E	43.009918	-89.81234	x (trout stream)	-	-	-	
S	S13	Wet Meadow/ Hardwood Swamp	S-W13		x	-	-	-	2,980	-	Dane	Blue Mounds	NE	SW	8	T6N, R6E	43.009888	-89.801818		2,980	-	7,729	
S	S13	UNT to Gordon Creek	S-R24		x	1	TCSB	-	-	-	Dane	Blue Mounds	NE	SE	8	T6N, R6E	43.009926	-89.801817		-	-	-	
S	S13	Gordon Creek	S-R25		x	1	TCSB	-	-	-	Dane	Blue Mounds	NW	SW	9	T6N, R6E	43.009894	-89.799857	x (trout stream)	-	-	-	
S	S13	Wet Meadow	S-W14		x	-	-	-	410	-	Dane	Blue Mounds	NW	SW	9	T6N, R6E	43.009823	-89.796624		410	-	-	
S	S13	UNT to Gordon Creek	S-R26		x	1	TCSB	-	-	-	Dane	Blue Mounds	NW	SW	9	T6N, R6E	43.00984	-89.796628		-	-	-	
S	S13	Wet Meadow	S-W15		x	-	-	-	660	-	Dane	Blue Mounds	SE	SE	9	T6N, R6E	43.006378	-89.782706		660	-	-	
S	S13	Shrub Carr	S-W16		x	-	-	-	2,700	-	Dane	Blue Mounds	SE	NW	14	T6N, R6E	42.996916	-89.752497		2,700	-	4,410	
S	S13	UNT	S-R27		x	1	TCSB	-	-	-	Dane	Blue Mounds	SE	NW	14	T6N, R6E	42.996922	-89.752409		-	-	-	
S	S13	Shrub Carr/Hardwood Swamp	S-W17		x	-	-	-	9,620	-	Dane	Blue Mounds	NW	SE	14	T6N, R6E	42.994727	-89.74803	x	9,620	-	18,571	
S	S13	West Branch Sugar River	S-R28		x	1	TCSB	-	-	-	Dane	Blue Mounds	NW	SE	14	T6N, R6E	42.995192	-89.748724	x (trout stream)	-	-	-	
S	S13	UNT to West Branch Sugar River	S-R29		x	1	TCSB	-	-	-	Dane	Blue Mounds	NE	SE	14	T6N, R6E	42.993476	-89.745272		-	-	-	
S	S13	Shrub Carr	S-W18		x	-	-	-	2,080	-	Dane	Mount Horeb	NW SW	SW SW	13	T6N, R6E	42.992008	-89.737024		2,080	-	-	
S	S13	UNT to West Branch Sugar River	S-R30-1		x	1	TCSB	-	-	-	Dane	Blue Mounds	NW	SW	13	T6N, R6E	42.992145	-89.736829		-	-	-	
S	S13	UNT to Deer Creek	S-R31			-	Avoided	-	-	-	Dane	Springdale	SW	NW	18	T6N, R7E	42.996839	-89.72002		-	-	-	
S	S13	Shrub Carr	S-W19			-	-	-	1,770	-	Dane	Springdale	SW	NW	18	T6N, R7E	42.997081	-89.719124	x	1,770		1,434	
S	S13	Deer Creek	S-R32-1		x	1	TCSB	-	-	-	Dane	Springdale	SW	NW	18	T6N, R7E	42.997159	-89.719051	x	-	-	-	
S	S13	Fryers Feeder	S-R33		x	1	TCSB	-	-	-	Dane	Springdale	NW	NE	18	T6N, R7E	43.002216	-89.70679	x	-	-	-	
T	T01	Shallow Marsh	U-W01		x	-	-	-	390	-	Dane	Springdale	SW	SW	8	T6N, R7E	43.004392	-89.701155		390	-	-	
T	T01	Wet Meadow	T-W01		x	-	-	-	980	-	Dane	Mount Horeb	SE	SE	7	T6N, R7E	43.005035	-89.701615		980	-	-	
T	T01	Hardwood Swamp / Farmed Wetland	T-W01a		x	-	-	-	5,440	-	Dane	Springdale	NE	NE	7	T6N, R7E	43.014148	-89.704381	x	5,440		18,928	
T	T01	Schlapbach Creek	T-R01a		x	1	TCSB	-	-	-	Dane	Cross Plains	NE	NE	7	T7N, R7E	43.014055	-89.704349	x	-	-	-	
T	T03	UNT to Sugar River	T-UNT1	Yes	x	1	Assumed TCSB	-	-	-	Dane	Cross Plains	SW NW NE	NE NE NE	6	T6N, R7E	43.031957	-89.702882		-	-	-	
T	T03	Sedge Meadow/Wet Meadow	T-W02		x	-	-	-	4,530	-	Dane	Cross Plains	SE NE	SE NE	31 6	T7N, R7E T6N, R7E	43.032011	-89.702871		4,530	-	-	
T	T03	UNT to Sugar River	T-R01		x	1	TCSB	-	-	-	Dane	Cross Plains	SE	SE	31	T7N, R7E	43.031977	-89.702865		-	-	-	
T	T03	Sugar River	T-R02		x	1	TCSB	-	-	-	Dane	Cross Plains	SE SW	NE NW	31 32	T7N, R7E	43.04057	-89.700691	x (trout stream)	-	-	-	
T	T05	Wet Meadow	T-W03		x	-	-	-	2,500	-	Dane	Cross Plains	SE	SW	29	T7N, R7E	43.046412	-89.692776		2,500	-	-	
T	T05	UNT to Sugar River	T-UNT2	Yes	x	1	Assumed TCSB				Dane	Cross Plains	SE	SW	29	T7N, R7E	43.046518	-89.692715					
V	V03	UNT to Sugar River	V-UNT1	Yes	x	1	Assumed TCSB	-	-	-	Dane	Cross Plains	SW	NW	28	T7N, R7E	43.055709	-89.676809		-	-	-	
V	V03	Wet Meadow	V-W01a		x	-	-	-	1,440	-	Dane	Cross Plains	SW	NW	28	T7N, R7E	43.055805	-89.677058		1,440	-	-	
V	V03	Wet Meadow	V-W01		x	-	-	-	3,260	-	Dane	Cross Plains	SW	NW	28	T7N, R7E	43.056476	-89.676826		3,260	-	-	
V	V04	UNT	V-R01		x	1	TCSB	-	-	-	Dane	Cross Plains	NE	NW	15	T7N, R7E	43.087662	-89.653654		-	-	-	
V	V04	UNT	V-R02		x	1	TCSB	-	-	-	Dane	Cross Plains	NE	NW	15	T7N, R7E	43.088518	-89.652848		-	-	-	
X	X02	Wet Meadow/Farmed Wetland	X-W01		x	-	-	190 (2 poles)	77,210	-	Dane	Cross Plains	NW NE SW SE SW	SW SE SW SE SE	11 10 11 10 10	T7N, R7E	43.093456	-89.6422		77,210	190	-	
X	X02	UNT to Black Earth Creek	X-UNT1	Yes	x	1	Assumed TCSB	-	-	-	Dane	Cross Plains	SE	SE	11	T7N, R7E	43.093454	-89.644421		-	-	-	
X	X02	UNT to Black Earth Creek	X-UNT2-1	Yes	x	1	Assumed TCSB	-	-	-	Dane	Cross Plains	SW	SW	11	T7N, R7E	43.093436	-89.639968		-	-	-	

RESOURCE						CONSTRUCTION METHOD/ACTIVITY					LOCATION								RESOURCE IMPACT				
						Waterway Impact Activity		Placement Structure/Fill Placement (square feet) [5]	Wetland Impact Activity														
Route/ Segment	Sub-segment [9]	Wetland Type or Waterway Name [1]	Feature Unique ID [2]	Navigability Determination Requested	Permit Required	Bridge [3]	Waterway crossing method [4]		Matting [6] (square feet)	Grading (square feet)	County	Municipality	QQ	Q	Section	Township (N), Range (E/W)	Latitude	Longitude	ASNRI	Temporary Fill (square feet)	Permanent Fill (square feet)	Conversion [7] (square feet)	DNR DOCKET [8]
X	X02	UNT to Black Earth Creek	X-UNT2-2	Yes	x	1	Assumed TCSB	-	-	-	Dane	Cross Plains	SW	SW	11	T7N, R7E	43.093521	-89.639746		-	-	-	
X	X02	UNT to Black Earth Creek	X-UNT3	Yes	x	1	Assumed TCSB	-	-	-	Dane	Cross Plains	NW	NW	11	T7N, R7E	43.094677	-89.638515		-	-	-	
Y	Y01A	UNT to Black Earth Creek	Y-UNT1	Yes	x	1	Assumed TCSB	-	-	-	Dane	Cross Plains	NW	SW	11	T7N, R7E	43.096858	-89.635383		-	-	-	
Y	Y01B	Black Earth Creek	Y-R01		x	1	TCSB	-	-	-	Dane	Cross Plains	NE NW	SE SE	11	T7N, R7E	43.096566	-89.625501	x (trout stream)	-	-	-	
Y	Y01C	Open Water/ Wet Meadow	Y-W01			-	-	-	-	-	Dane	Cross Plains	NW	SW	12	T7N, R7E	43.096174	-89.618438		-	-	-	
Y	Y05	Wet Meadow	Y-W02			-	-	-	3,510	-	Dane	Cross Plains	NE	SW	12	T7N, R7E	43.095833	-89.6152		3,510	-	-	
Y	Y05	Black Earth Creek	Y-R02		x	1	TCSB	-	-	-	Dane	Cross Plains	NE NW	SW SE	12	T7N, R7E	43.094899	-89.611611	x (trout stream)	-	-	-	
Y	Y05	Sedge Meadow/ Wet Prairie	Y-W03		x	-	-	-	1,620	-	Dane	Cross Plains	NW	SE	12	T7N, R7E	43.094032	-89.607031	x	1,620	-	-	
Y	Y06A	Wet Meadow/Shallow Marsh	Y-W04		x	-	-	-	350	-	Dane	Cross Plains	NW NE	SE SW	12	T7N, R7E	43.093951	-89.605796		350	-	-	
Y	Y06A	Black Earth Creek	Y-R03		x	1	TCSB	-	-	-	Dane	Cross Plains	NE	SE	12	T7N, R7E	43.094139	-89.605311	x (trout stream)	-	-	-	
Y	Z02	Black Earth Creek	Y-R04-1		x	1	TCSB	-	-	-	Dane	Cross Plains	NE	SE	12	T7N, R7E	43.093989	-89.60335	x (trout stream)	-	-	-	
Z	Z02	Hardwood Swamp	Z-W02a		x	-	-	-	5,060	-	Dane	Cross Plains	NE	SE	12	T7N, R7E	43.093547	-89.602076		5,060	-	7,471	
Z	Z02	Hardwood Swamp / Wet Meadow	Z-W02b			-	-	-	18,070	-	Dane	Middleton	SE	SW	7	T7N, R8E	43.092076	-89.594914		18,070	-	35,408	
Z	Z02	Black Earth Creek	Z-R01b-1		x	1	TCSB	-	-	-	Dane	Middleton	SE	SW	7	T7N, R8E	43.092143	-89.594952	x (trout stream)	-	-	-	
Z	Z02	Black Earth Creek	Z-R01b-2		x	1	TCSB	-	-	-	Dane	Middleton	SE	SW	7	T7N, R8E	43.091775	-89.593962	x (trout stream)	-	-	-	
Z	Z02	Wet Meadow	Z-W03		x	-	-	-	5,200	-	Dane	Middleton	SE	SW	7	T7N, R8E	43.091058	-89.592683		5,200	-	-	
Z	Z02	Black Earth Creek	Z-R01a			-	Avoided	-	-	-	Dane	Middleton	SE	SW	7	T7N, R8E	43.090873	-89.592171	x (trout stream)	-	-	-	
Z	Z02	Black Earth Creek	Z-R01			-	Avoided	-	-	-	Dane	Middleton	SE	SW	7	T7N, R8E	43.090605	-89.592256	x (trout stream)	-	-	-	
Z	Z01B, Z02	Wet Meadow	Z-W03a		x	-	-	95 (1 pole)	38,550	-	Dane	Middleton	SE SW	SW SE	7	T7N, R8E	43.090655	-89.592666	x	38,550	95		
Z	Z01B	Wet Meadow	Z-W03b		x	-	-	-	18,680	-	Dane	Middleton	SE SW	SE SE	7	T7N, R8E	43.090844	-89.587353		18,680	-	-	
Y	Y07, Y08	Shallow Marsh/ Wet Meadow/ Hardwood Swamp	Y-W08		x	-	-	-	1,710	-	Dane	Middleton	NE NW	SW SW	8	T7N, R8E	43.093664	-89.576156		1,710	-	-	
Y	Y08	Wet Meadow/ Sedge Meadow/ Shallow Marsh/ Deep Marsh	Y-W09		x	-	-	-	11,230	-	Dane	Middleton	NE	SW	8	T7N, R8E	43.0938	-89.572155		11,230	-	-	
Off ROW Q	Q05 Q-OR-04	UNT to Dodge Branch	Q-OR-04 (Q-R07-2)			-	Existing Crossing (Culvert)	-	-	-	Iowa	Dodgeville	SW	NW	26	T6N, R3E	42.968037	-90.11219		-	-	-	
Off ROW S	S13 S-OR-12	UNT to East Branch Pecatonica River	S-OR-12 (S-R14-2)			-	Existing Crossing (Culvert)	-	-	-	Iowa	Brigham	NE	SE	10	T6N, R5E	43.008988	-89.878659		-	-	-	
Off ROW S	S13 S-OR-26	Wetland	S-OR-26 (S-W18)		x	-	-	-	1,780	-	Dane	Mount Horeb	SW	SW	13	T6N, R6E	42.992008	-89.737024		1,780	-	-	
Off ROW S	S13 S-OR-26	UNT to West Branch Sugar River	S-OR-26 (S-R30-2)			-	Existing Crossing (Culvert)	-	-	-	Dane	Blue Mounds	SW	SW	13	T6N, R6E	42.991235	-89.738316		-	-	-	
Off ROW S	S13 S-OR-26	UNT to West Branch Sugar River	S-OR-26 (S-R30-3)			-	Existing Crossing (Culvert)	-	-	-	Dane	Blue Mounds	SW	SW	13	T6N, R6E	42.990095	-89.74013		-	-	-	
Off ROW S	S13 S-OR-29	Deer Creek	S-OR-29 (S-R32-2)		x	1	TCSB	-	-	-	Dane	Springdale	SW	NW	18	T6N, R7E	42.996461	-89.718979	x	-	-	-	
																			Total (sq. ft.)	574,610	855	200,361	
																			Total (acre)	13.19	0.02	4.60	

Notes:

[1] For wetlands, state the wetland type using the Eggers and Reed Classification system. For waterways, indicate where water flows (e.g. UNT to Silver Creek) (UNT = unnamed tributary). Include all waterways mapped in the DNR Surface Water Data Viewer webtool that cross the project path.

[2] Insert the code or other reference used in application (e.g. W-3, S-27). Waterways IDs with a suffix (e.g. -1, -2, etc.) indicate multiple waterway crossings.

[3] Indicate the number of bridges needed

[4] Waterway crossing methods include: TCSB, existing crossing (ford, culvert, etc.), avoided, navigability determination requested

[5] If a permanent structure or permanent fill will be placed in wetland or waterway (i.e. pole structures, padmount, substation, power plant, etc.), incidate the area (length by width) of permanent fill

[6] If construction matting (i.e. timber, composite, etc.) will be placed in wetland for vehicle/equipment access or under soil stockpiles, or on the waterway bed for access, indicate the area (length by width) of matting to be placed in wetland (temporary fill) or waterway

[7] Conversion impact refers to vegetative clearing of forested wetlands, resulting in an herbaceous wetland, for the purposes of construction.

[8] Assigned and to be completed by the DNR

[9] Sub-segment in which the feature is located. For features located within off-ROW paths, the sub-segment and off-ROW path ID is provided.

(please submit in excel format)

CORRESPONDENCE/MEMORANDUM

State of Wisconsin

DATE: July 16, 2019 FILE REF: 5-CE-146

TO: Public Service Commission

FROM: Cindy Koepke, Hydrogeologist
Remediation and Redevelopment (RR) Program
Wisconsin Department of Natural Resources (DNR)

SUBJECT: Cardinal Hickory Creek Project and its proximity to Refuse Hideaway Landfill

As the DNR project manager for remediation of the closed Refuse Hideaway Landfill (RHL), I am writing to provide information on the landfill and the groundwater contamination plume extending from it. The groundwater plume underlies several segments of the proposed Cardinal Hickory Creek Project (Project). This memo provides a summary of the RR Program review process to be followed if the Project is approved by the Public Service Commission (PSC).

Background and Location of RHL
RHL is a closed landfill in the Town of Middleton that operated from 1974-1988 and is currently an open Superfund Site on the Environmental Protection Agency's (EPA) National Priorities List. DNR is responsible for carrying out numerous activities at the landfill, including source control and groundwater monitoring. The main contaminants are volatile organic compounds.

RHL is approximately 0.5 miles northwest of the Cardinal Substation, which is the eastern terminus of the Project. The plume of contaminated groundwater from the landfill extends beyond the RHL property boundaries and underlies proposed Project segments Y06B, Z02, and Z01B along Highway 14.

On 6/25/2019, I got an email from SWCA, a consultant for the Rural Utility Service (RUS). SWCA is preparing the federal Environmental Impact Statement (EIS) for the Project. The consultant requested information on RHL for inclusion in the federal EIS. On 7/9/2019, DNR had a conference call with RUS staff, SWCA, the applicants, and PSC staff to discuss the proximity of RHL to the Project, and the RR Program review process associated with activities in this area.

Required Consultation with the RR Program
If the Project is approved, either route selected will intersect the groundwater contamination plume. While the exact locations of pre-construction geotechnical soil borings and final structure placements are not known at this time, that type of subsurface work may occur at depths that are impacted by RHL contamination. In the course of this work, contaminated soil and groundwater may be encountered.

To ensure that the Project complies with applicable state and federal law and that proper management and disposal requirements are followed for any contamination encountered, the applicants and their consultants will need to work closely with DNR's RR program.

During our conference call, the applicants indicated they will follow these environmental commitments:

- Once a route for the Project is selected and final design is underway, the applicants would develop a geotechnical investigation plan, including a plan for collecting groundwater and soil samples. This environmental sampling plan would be provided to the DNR RR Project Manager for review and input prior to pre-construction geotechnical investigations occurring.

- The environmental sampling results would be shared with the DNR RR Project Manager.
- Prior to Project construction, a Contaminated Soil and Groundwater Management Plan would be drafted by the applicants for Project construction occurring in the vicinity of RHL. The Contaminated Soil and Groundwater Plan will identify appropriate management of any contaminated soil and groundwater encountered during construction of the Project. This plan would be reviewed by the DNR RR Project Manager. If a formal approval process is required by the DNR, a process consistent with chs. NR 700-754, Wisconsin Administrative Code, will be followed.

In addition, the applicants will follow OSHA requirements associated with working with potentially contaminated soil and groundwater.

The Project is not expected to interfere with groundwater movement/flow in the area. However, if construction dewatering is needed, then additional evaluation will be needed to determine possible impacts on the groundwater plume.

Please feel free to contact me at 608-275-3257 or cynthia.koepke@wisconsin.gov if you have any questions regarding this memo. You may also contact my supervisor, Steve Martin, at 608-275-3310 or stevenl.martin@wisconsin.gov.

Copies by email to:
Steve Martin - DNR
Ben Callan – DNR
Geri Radermacher – DNR
Lindsay Tekler - DNR

US Army Corps of Engineers ®
St. Paul District

COMPLIANCE CERTIFICATION

Regulatory File Number: MVP-2012-03481-ANM

Name of Permittee: Amy Lee/American Transmission Company

County/State: Dane, Iowa, Grant/Wisconsin

Date of Issuance: December 20, 2019

Upon completion of the activity authorized by this permit and any mitigation required by the permit, sign this certification and return it to the Corps contact identified in your verification letter within 30 days.

Please note that your permitted activity is subject to a compliance inspection by a U.S. Army Corps of Engineers representative. If you fail to comply with this permit, you are subject to permit suspension, modification, or revocation.

By signing below, the permittee is certifying that the work authorized by the above referenced permit has been completed in accordance with the terms and conditions of the permit, and any required mitigation was completed in accordance with the permit conditions.

_____ _____

Signature of Permittee Date