



Missouri Department of Conservation

Ali Trunzo

Subject: FW: Spire STL Follow Up
Attachments: MO_Proposed_Survey_Area_Map_2017_01_18.pdf; 2017_01_11_Spire_Bald_Eagle_MODOC_Special_Use_Permit_Application.pdf

From: Jayme Fuller
Sent: Friday, January 20, 2017 3:01 PM
To: Audrey Beres <Audrey.Beres@mdc.mo.gov>
Cc: Lori Ferry <L.Ferry@gaiconsultants.com>; Ali Trunzo <A.Trunzo@gaiconsultants.com>; Matt White <m.white@gaiconsultants.com>
Subject: RE: Spire STL Follow Up

Hi Audrey,

As previously discussed, I have attached a map of the proposed Bald Eagle survey locations in Missouri along with the Special Use Permit to conduct surveys in the Upper Mississippi Conservation Area.

Please let me know if you have any comments, we plan to survey starting February 6th.

Jayme L. Fuller, Environmental Manager

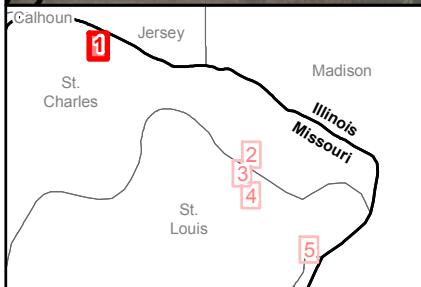
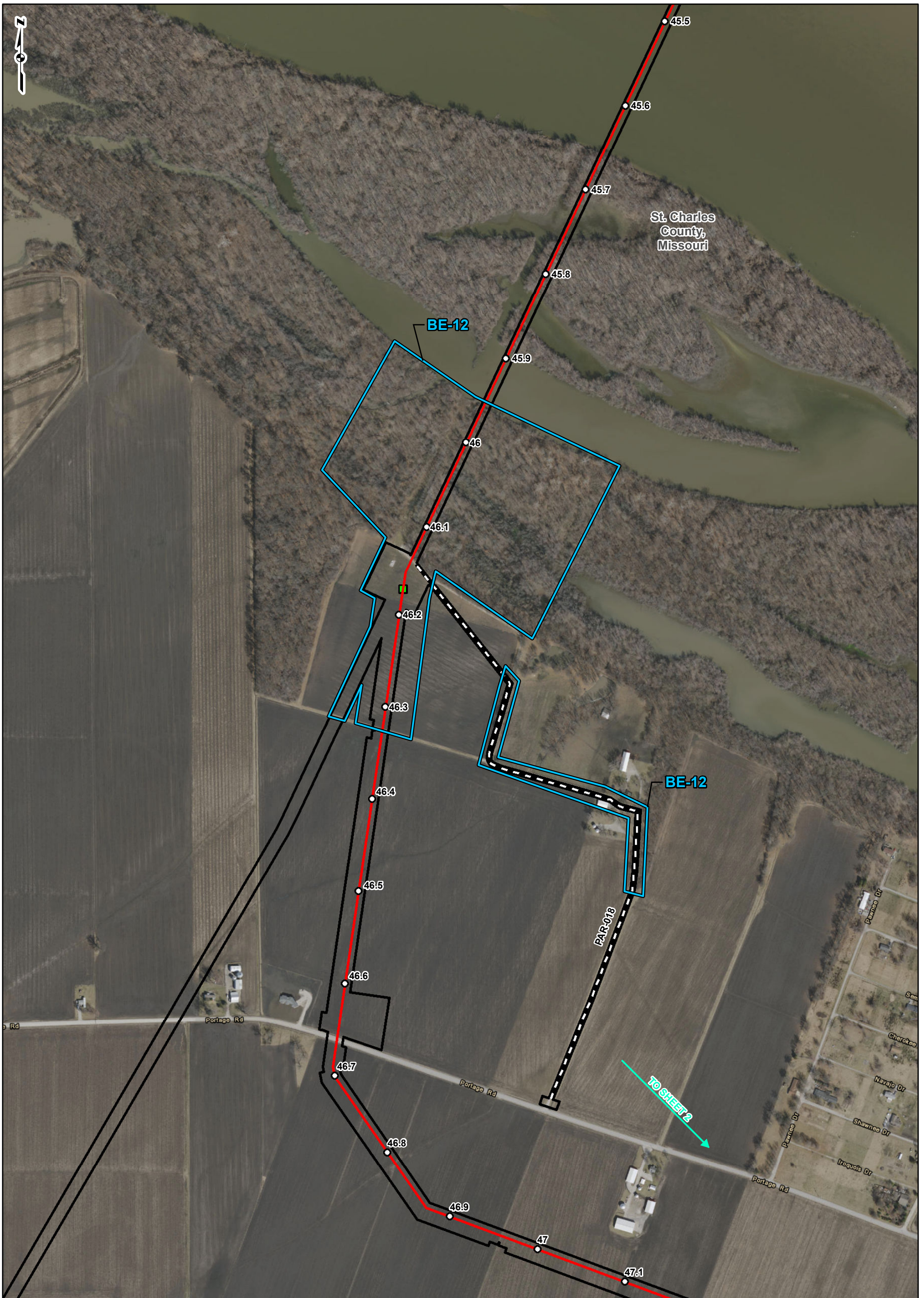
GAI Consultants, Inc.

Charleston Office | 300 Summers Street, Suite 1100, Charleston WV 25301

Indianapolis Office | 6420 Castleway West, Indianapolis, IN 46250

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REFERENCE: ESRI WORLD IMAGERY AND TRANSPORTATION, NAIP, USDA FSA, 2014, ACCESSED 01/2017.

DRAFT

LEGEND

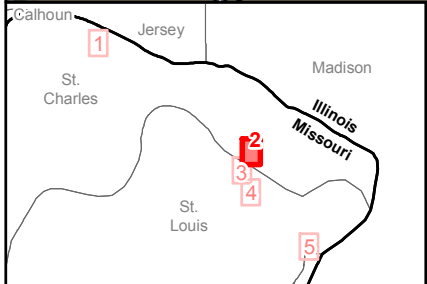
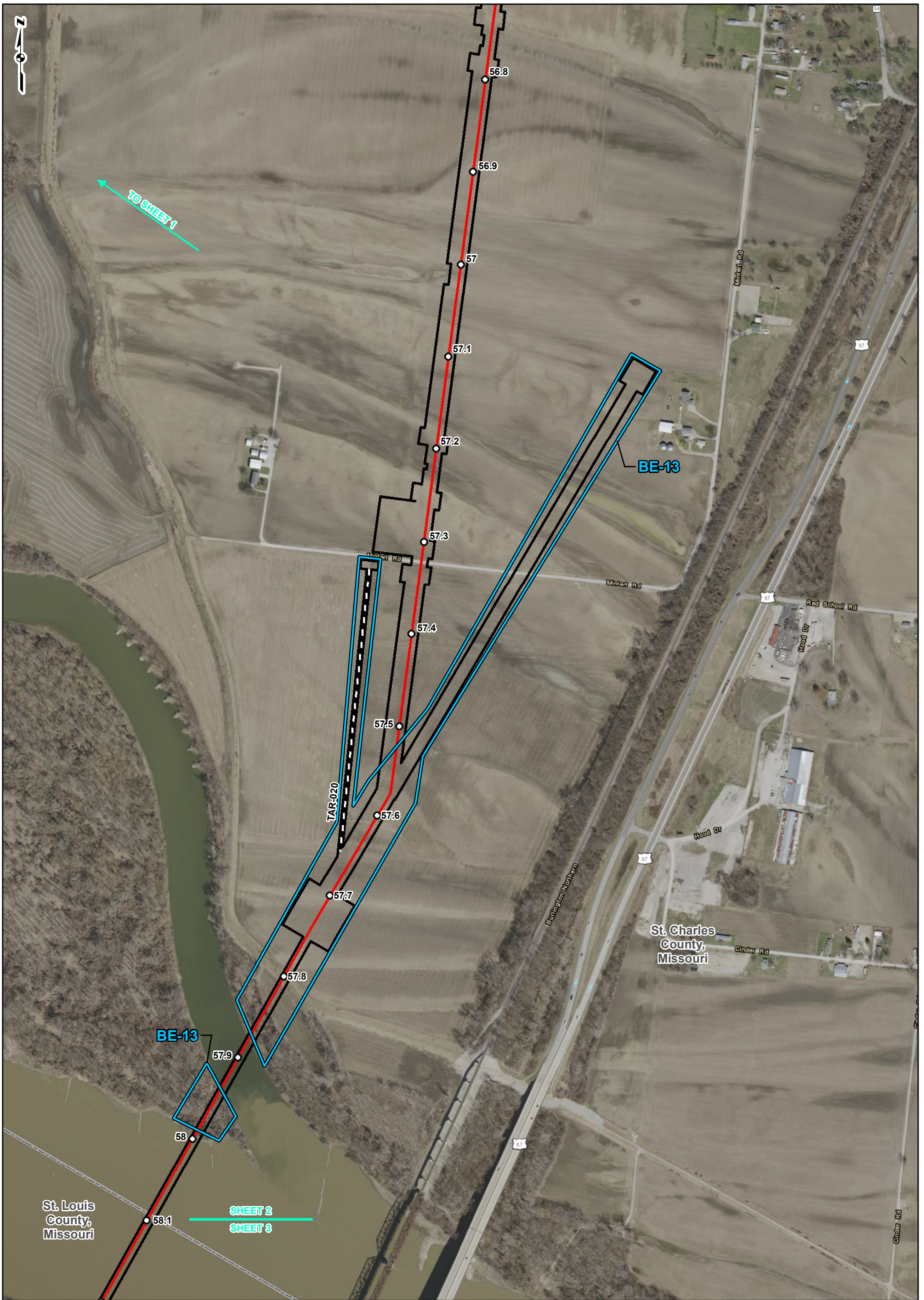
FACILITY	BALD EAGLE NEST SEARCH AREA
MILEPOST	LIMIT OF DISTURBANCE
ACCESS ROAD	COUNTY BOUNDARY
24-INCH PIPELINE	STATE BOUNDARY
LINE 880 MODIFICATIONS	

0 250 500 1,000 Feet

MISSOURI PROPOSED SURVEY AREA MAP SHEET 1 OF 5

SPIRE STL PIPELINE PROJECT

DRAWN BY: PMH DATE: 1/18/2017
 CHECKED: APPROVED:



REFERENCE: ESRI WORLD IMAGERY AND TRANSPORTATION, NAIP, USDA FSA, 2014, ACCESSED 01/2017.

DRAFT

LEGEND

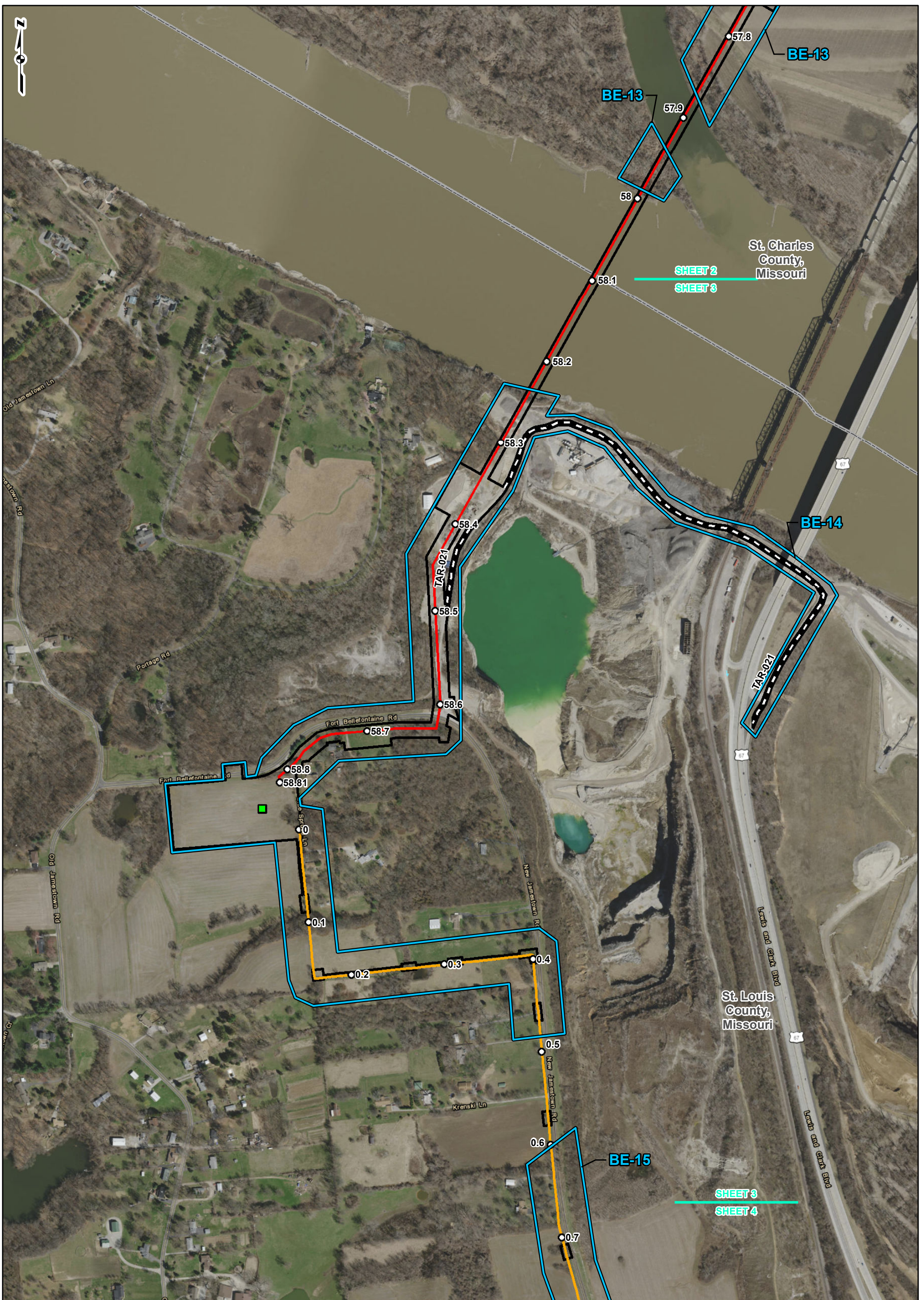
FACILITY	BALD EAGLE NEST SEARCH AREA
MILEPOST	LIMIT OF DISTURBANCE
ACCESS ROAD	COUNTY BOUNDARY
24-INCH PIPELINE	STATE BOUNDARY
LINE 880 MODIFICATIONS	

0 250 500 1,000 Feet

MISSOURI PROPOSED SURVEY AREA MAP SHEET 2 OF 5

SPIRE STL PIPELINE PROJECT

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DRAFT

LEGEND

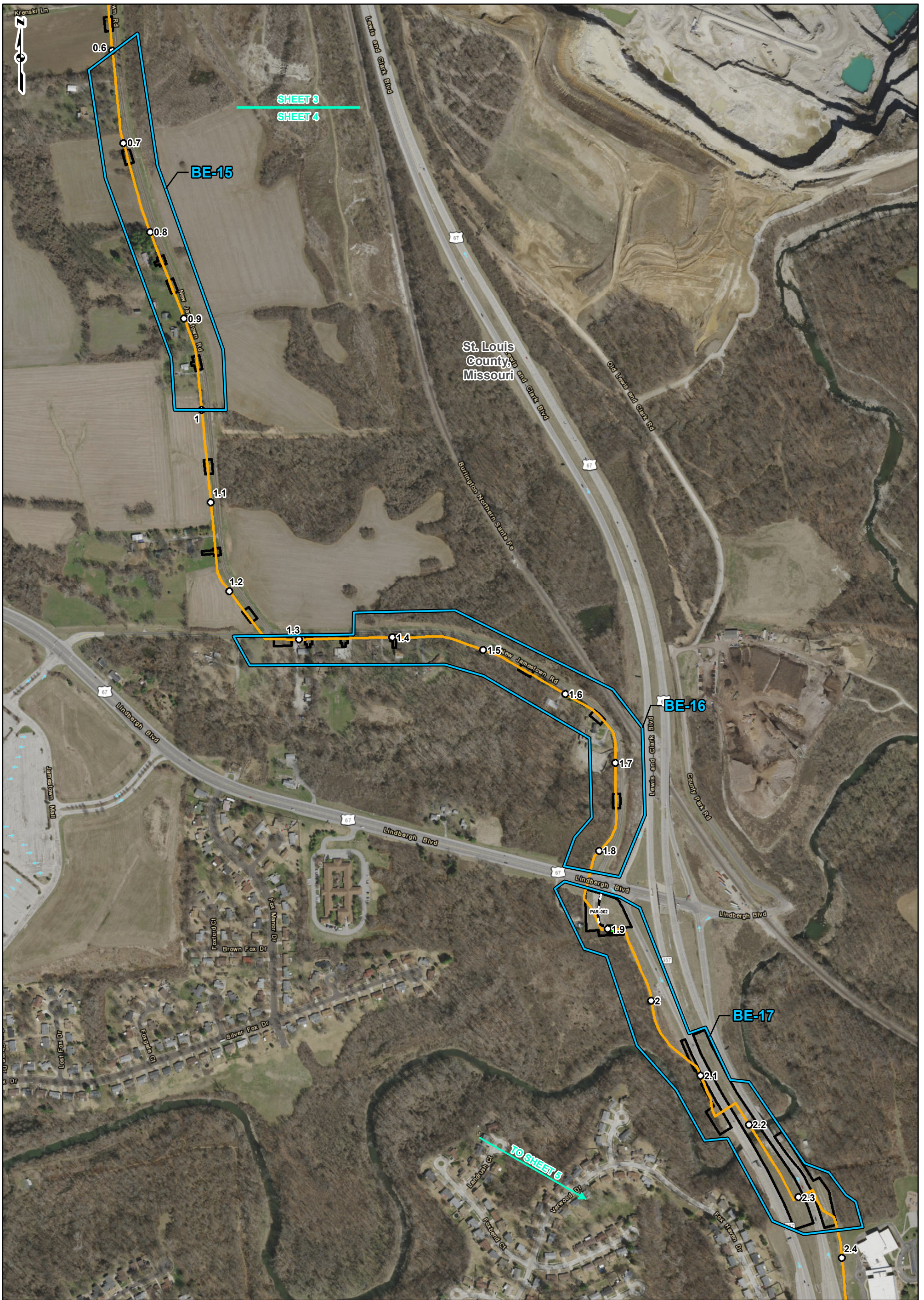
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MILEPOST	LIMIT OF DISTURBANCE
ACCESS ROAD	COUNTY BOUNDARY
24-INCH PIPELINE	STATE BOUNDARY
LINE 880 MODIFICATIONS	

0 250 500 1,000 Feet

MISSOURI PROPOSED SURVEY AREA MAP SHEET 3 OF 5

gal consultants **SPIRE STL PIPELINE PROJECT** spire

DRAWN BY: PMH DATE: 1/18/2017
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DRAFT

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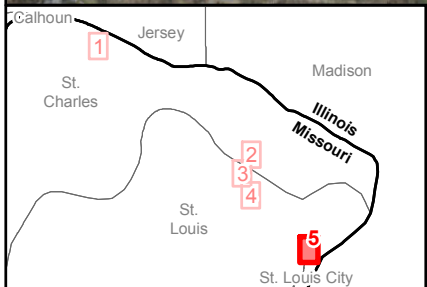
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MILEPOST	LIMIT OF DISTURBANCE
ACCESS ROAD	COUNTY BOUNDARY
24-INCH PIPELINE	STATE BOUNDARY
LINE 880 MODIFICATIONS	

0 250 500 1,000 Feet

MISSOURI PROPOSED SURVEY AREA MAP SHEET 4 OF 5

SPIRE STL PIPELINE PROJECT

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DRAFT

LEGEND

FACILITY	BALD EAGLE NEST SEARCH AREA
MILEPOST	LIMIT OF DISTURBANCE
ACCESS ROAD	COUNTY BOUNDARY
24-INCH PIPELINE	STATE BOUNDARY
LINE 880 MODIFICATIONS	

0 250 500 1,000 Feet

MISSOURI PROPOSED SURVEY AREA MAP SHEET 5 OF 5

SPIRE STL PIPELINE PROJECT

DRAWN BY: PMH DATE: 1/18/2017
 CHECKED: APPROVED:



MISSOURI DEPARTMENT OF CONSERVATION

SPECIAL USE PERMIT APPLICATION

*Application must be received 30 days prior to requested event.

Section A – to be completed by the applicant (Please print):

Name of Permittee _____ Representing _____
(Individual) (Organization)

Mailing Address _____
(Street or Box) (City) (State) (Zip Code)

E-mail Address _____

Daytime Phone Number _____ Evening Phone Number _____

Alternative Contact name and Phone Number _____

Department Area Requested _____

Portion of Area and/or Facility Requested _____

Date(s) of Proposed Activity _____ Time of Proposed Activity _____

Number of People _____ Number of Vehicles, Boats, Trailers, Horses, Dogs, etc. (Specify for each)

Proposed Activity _____

A separate permit is used for field trials. See Field Trial Special Use Permit policy.

Return completed application to Area Manager or local conservation office.

*The thirty days advance application requirement may be waived by the Area Manager based on resource conditions and availability. Thirty-day notice is not required for mobility device applications.

Statewide Public Use Guidelines

The following guidelines are used by Area Managers to determine if a requested use is appropriate for a specific conservation area (for Other Power-Driven Mobility Devices SUPs, see Special Use Permit Policy, Activity Specific Guidance, Attachment 4):

1. Will the activity interfere with or in any way compromise management of the Conservation Areas' fish, forest, wildlife, and natural communities?
2. Will the activity conflict with local ordinances, state constitution, Department regulations, or Federal Aid assistance?
3. Will the activity cause an unacceptable level of damage to resources or facilities?
4. Is the long-term impact of the proposed activity—and the commitment in budget and staffing—fully evaluated and understood?
5. Will the activity conflict with scheduled or seasonal primary public uses?
6. Will the activity require undue accommodation from Department staff, including reservations, special setup, cleanup, or maintenance?
7. Will the activity impede foot, boat, or vehicular traffic flow or restrict access to area locales normally open to the general public?
8. Will the activity pose a threat to public health, safety, and welfare?

Section B – to be completed by the Area Manager

Deposit is required for use of area and/or facilities. Total _____

Deposit Received by _____ Date _____

Permittee required to supply and remove portable restrooms.

The Permittee is authorized to:

Leave horse trailers and other equipment on the premises overnight from _____ until _____ at (location) _____

Use the following Department facilities (include dates and times):

1. _____
2. _____
3. _____

Permit Approved, with attached terms, maps and conditions. Approval is not complete until the applicant signs the permit and returns it, along with any fee or deposit if necessary, to the Area Manager.

Permit Denied. Applicant may appeal the denial by following the attached Reconsideration Process. Reason(s) for Denial (which guidelines would be violated):

PERMIT PROCESS

1. The citizen requesting special use of a conservation area obtains a Special Use Permit Application from the Area Manager or local conservation office, completes Section A, and returns it to the Area Manager or local conservation office.
2. The Area Manager completes Section B of the Special Use Permit Application and returns the completed application, and appropriate attachment(s), to the citizen.
 - a. If the permit request is approved, the Area Manager also sends the applicant two copies of the Special Use Permit & Conditions Form and the Safety Rules for Other Power-Driven Mobility Device Use, if applicable. The applicant is instructed to sign both copies, keeping one for themselves and returning the other, plus any fee or deposit if required, to the Area Manager.
 - b. If the permit request is denied, the Area Manager also sends the applicant a Special Use Permit Reconsideration Form or, for Other Power-Drive Mobility Device denial, provides contact information for a Unit or Division Chief.

Ali Trunzo

Subject: FW: Spire STL Follow Up

From: Audrey Beres [<mailto:Audrey.Beres@mdc.mo.gov>]

Sent: Tuesday, January 17, 2017 1:04 PM

To: Jayme Fuller <J.Fuller@gaiconsultants.com>

Subject: RE: Spire STL Follow Up

Jayme-

There are no seasonal restrictions for the Missouri stream crossings proposed for open cut, instream work found in the Resource Report #2 table of waterbodies crossed by the project. Ideally the work would take place under conditions of low flow, and this would likely provide the best working conditions as well. If you determine that additional and/or different crossings are needed for the project, please let me know.

Audrey Beres
Policy Coordinator
Policy Coordination
Missouri Department of Conservation
2901 West Truman Blvd.
Jefferson City, MO 65109
O: 573.522.4115 ext. 3346
F: 573.526.4495
Audrey.Beres@mdc.mo.gov

Ali Trunzo

Subject: FW: Spire STL Follow Up

From: Audrey Beres [<mailto:Audrey.Beres@mdc.mo.gov>]

Sent: Tuesday, January 17, 2017 11:19 AM

To: Jayme Fuller <J.Fuller@gaiconsultants.com>

Subject: RE: Spire STL Follow Up

Jayme-

I am still checking on the instream restrictions, but I wanted to send you the information on the access road. I spoke with Gary – the road in question is not owned or maintained by us, and it also does not show up on our County Road GIS layer. Therefore, this road likely belongs to the landowner, but we do not know for sure. Gary said that hunters often inquire about access to the Luesse Lake area, and he tells them that the only public access is via boat.

Audrey Beres
Policy Coordinator
Policy Coordination
Missouri Department of Conservation
2901 West Truman Blvd.
Jefferson City, MO 65109
O: 573.522.4115 ext. 3346
F: 573.526.4495
Audrey.Beres@mdc.mo.gov

Ali Trunzo

From: Jayme Fuller
Sent: Wednesday, January 11, 2017 11:13 AM
To: audrey.beres@mdc.mo.gov
Cc: Ali Trunzo; Lori Ferry
Subject: Spire STL Follow Up
Attachments: L_BEED.tmp.png

Hi Audrey,

Thanks again for taking the time to go through everything yesterday. I wanted to follow up with some information you requested:

1. For instream work in Missouri, we anticipate the schedule will be from June to November in 2018. I know you said you were going to follow up with your fisheries biologist and confirm in an email that there were no instream restrictions for the proposed project.
2. Tree clearing acreage- 3.73 acres total for Missouri including both the STL pipeline and the maintenance work on the existing Line 880.
3. Also please let me know if Gary gets back with you in regards to the access road the conservation area.

I have attached a screen shot showing the crossing of the Missouri River, I know you said you wanted to see that area as a frame of reference on crossing impact avoidance.

Thanks!

Jayme L. Fuller, Environmental Manager

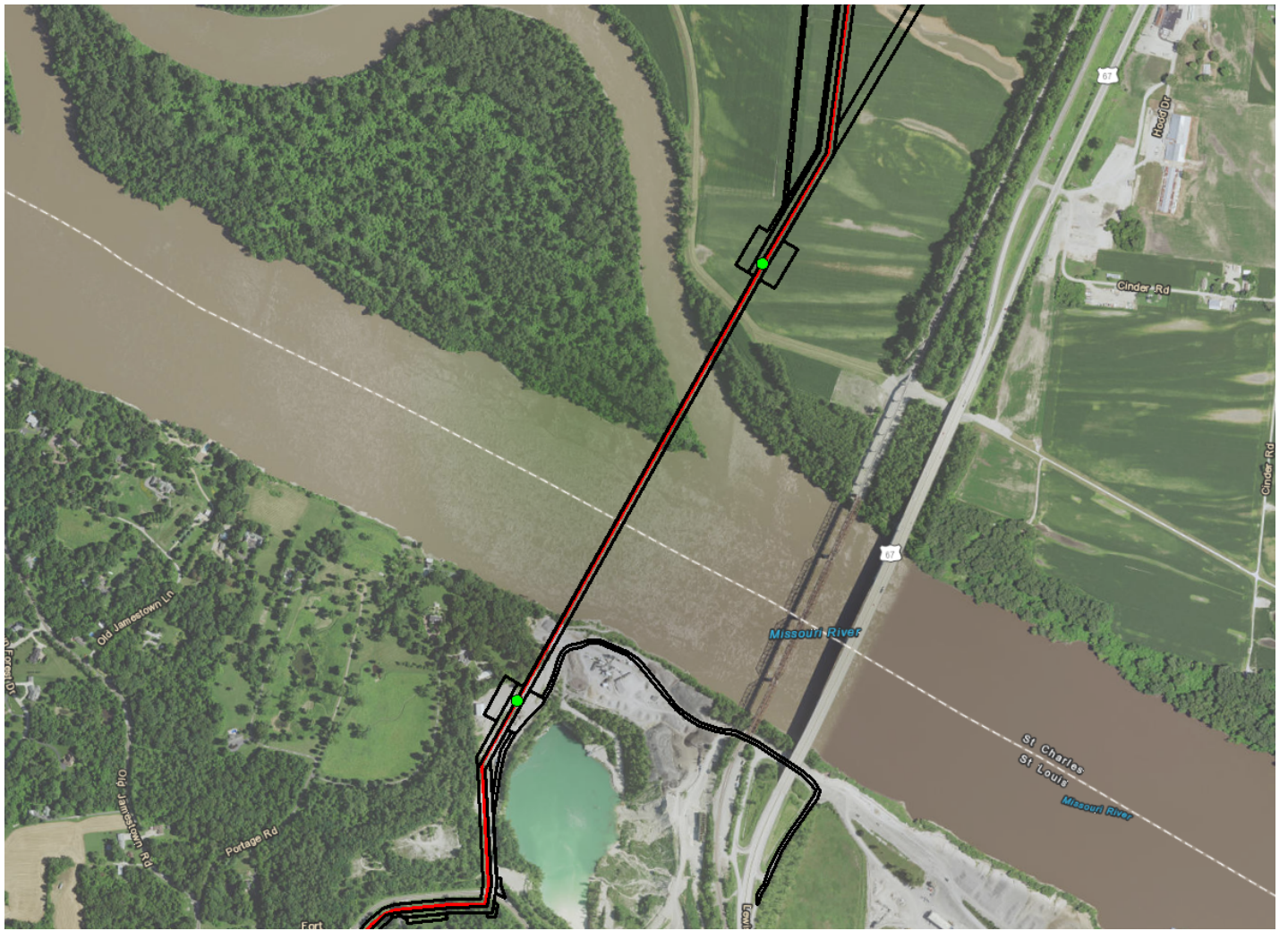
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telephone log



gai consultants

Date: 1-10-2017

Project / Admin. No.: E160438.00

Call From: Audrey Beres

Company: Missouri Department of Conservation

Phone No.: 573.522.4115 ext. 3346

Call To: Jayme Fuller

Company: GAI Consultants, Inc

Phone No.: 6144996258

Subject: RE: Call back to questions in relation to MDOC letter

cc:

Summary of Discussion, Decisions, and Commitments:

Ms. Audrey Beres called Ms. Jayme Fuller in response to a phone message left by Ms. Fuller regarding questions on species information indicated in the Missouri Department of Conservation (MDOC) letter filed during the FERC pre-filing process. The following items were discussed:

- Access Road leading to Upper Mississippi River Conservation Area (USACE federally owned property)- Ms. Beres indicated she had reached out to Gary Calvert, Area Manager about Spire's request to utilize the access road during construction. She is still trying to verify the ownership of the access road and will follow up with Gary Calvert again.
- Special Use Permits- Ms. Beres indicated a special use permit will be required for proposed bald eagle surveys on the Upper Mississippi River Conservation Area (UMRCA) and any activity during construction. Also she indicated that they would like documentation of when the UMRCA was used for access during the geotechnical investigation. GAI indicated they would follow up with the Special Use Permits for geotechnical investigations and proposed bald eagle survey.
- Mississippi River and Missouri River Crossings and species list: GAI indicated that USFWS had made similar comments about potential species in the Mississippi river and that we intended to respond with more information on the HDD and Ms. Beres agreed with the same approach in response to her comments.
- Spawning Restrictions- GAI referred to an email from Mr. Mike Irwin (MDNR) forwarded to Ms. Beres on December 15th regarding seasonal instream work restrictions. Audrey did not think there would be any additional instream restrictions other than the list of spawning streams indicated in the NWP conditions. She wanted to double check with her fisheries biologists and wanted GAI to confirm when they thought instream work would occur in 2018. Once she confirms, she will respond with an email indicating no

seasonal restrictions.

- Land Grants- Within the Natural Heritage Review Report, land grants were determined to be within the vicinity of the project (one of them being the UMRCA). GAI reiterated that no impacts would occur on the UMRCA and Ms. Beres concurred that nothing further needed to be addressed with the land grants and were listed merely as informational purposes.
- Bat species- GAI indicated that Spire plans to conduct mist net surveys within the survey window in 2017 and that we would forward results to MDOC. Audrey also concurred that they would defer to FWS on any decisions made in regard to Indiana bat and Northern Long Eared Bat. Ms. Beres indicated that she would like a follow up email regarding the amount of tree clearing proposed in Missouri. GAI plans to follow up with an email.
- Decurrent False Aster- GAI indicated that a decurrent false aster survey was completed in Illinois and no surveys were anticipated in Missouri. GAI believed, based on records, that the likelihood for decurrent false aster habitat presence was high on the UMRCA but likely absent for the rest of the Project LOD. Audrey concurred that if no disturbance was planned within the UMRCA, then surveys would not be needed.

Ali Trunzo

Subject: RE: Bald eagle survey info

From: Janet Haslerig [<mailto:Janet.Haslerig@mdc.mo.gov>]

Sent: Monday, December 12, 2016 10:59 AM

To: Jayme Fuller <J.Fuller@gaiconsultants.com>

Subject: RE: Bald eagle survey info

Hello Jayme:

My apologies but I will follow-up with you this week.

Thanks – Janet

Janet Haslerig
Resource Scientist
Missouri Department of Conservation
2901 W. Truman Blvd.
Jefferson City, MO 65109
Phone: 573.522.4115, ext. 3198
Fax: 573.526.5582

Ali Trunzo

From: Janet Haslerig <Janet.Haslerig@mdc.mo.gov>
Sent: Monday, December 05, 2016 3:12 PM
To: Jayme Fuller
Cc: Lori Ferry; Ali Trunzo
Subject: RE: Bald eagle survey info

Hello Jayme:

Thank you for providing me with the additional information I requested. Give me an opportunity to review everything and play a little catch up.

I will follow back up with you this week. In the meantime, please contact me if you have any additional questions.

Thanks,

Janet

Janet Haslerig
Resource Scientist
Missouri Department of Conservation
2901 W. Truman Blvd.
Jefferson City, MO 65109
Phone: 573.522.4115, ext. 3198
Fax: 573.526.5582

From: Jayme Fuller [mailto:J.Fuller@gaiconsultants.com]
Sent: Monday, December 05, 2016 11:51 AM
To: Janet Haslerig
Cc: Lori Ferry; Ali Trunzo
Subject: RE: Bald eagle survey info

Hi Janet,

Per our conversation, I have attached the proposed crossing locations of the Mississippi River and Missouri River. As I mentioned, both rivers will be crossed by a horizontal directional drill. The proposed workspaces are shown in purple on the north side and south side of the Mississippi River where there may be a bald eagle nest in question. The proposed construction schedule in this area will be tree clearing on the north side of the Mississippi between January and March 31, 2018. There will be no tree clearing proposed on the USACE property/Upper Mississippi River Conservation Area. The horizontal directional drill is proposed to start in May 2018 and last until August 2018. We have not received any requests to survey from FWS, however I understand you will reach out to the bald eagle lead in the Rock Island FWS office. We do plan to survey for nests at the end of January 2017 but we are looking for guidance from you on the survey area study corridor (i.e., 500 feet on either side of centerline) and if there will be nesting seasonal restrictions for the proposed construction schedule.

Thanks and look forward to hearing from you.

Jayme L. Fuller, Environmental Manager

GAI Consultants, Inc.

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From: Audrey Beres [<mailto:Audrey.Beres@mdc.mo.gov>]

Sent: Monday, December 05, 2016 10:43 AM

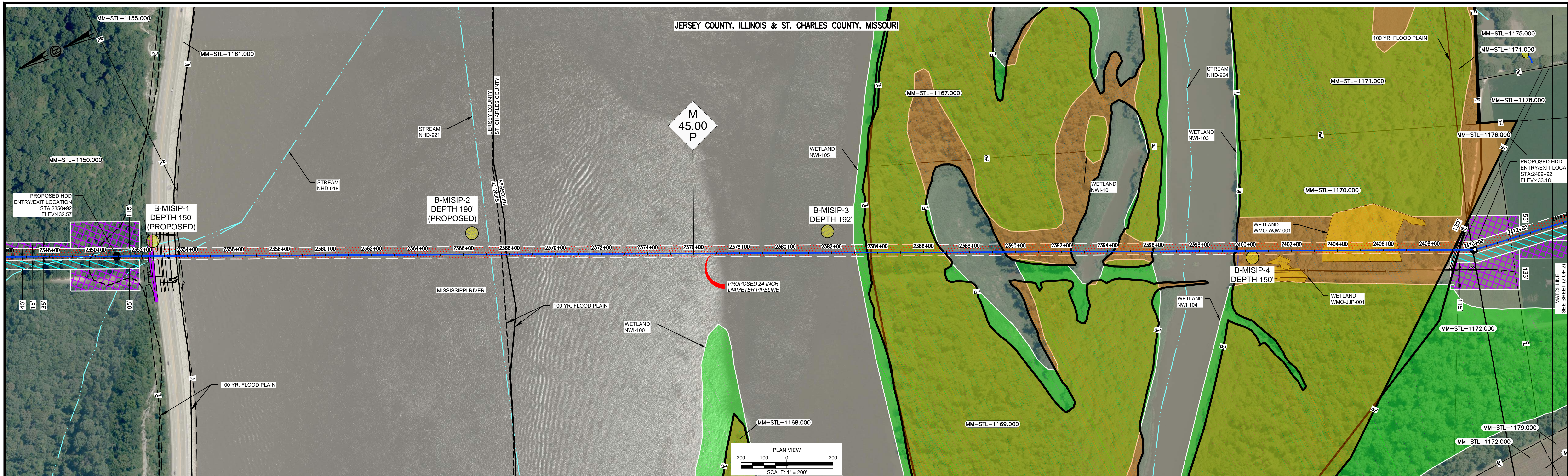
To: Jayme Fuller <J.Fuller@gaiconsultants.com>

Subject: Bald eagle survey info

Jayme-

Regarding your question about surveying for bald eagles, we have a bald eagle specialist who can provide technical input to assist you in planning your surveys. You may reach Janet Haslerig at 573-522-4115, ext. 3198.

Audrey Beres
Policy Coordinator
Policy Coordination
Missouri Department of Conservation
2901 West Truman Blvd.
Jefferson City, MO 65109
O: 573.522.4115 ext. 3346
F: 573.526.4495
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DRAFT CONCEPTUAL HDD NOTES:

1. THE HDD BORE PATH DEPICTED ON THIS DRAWING IS CONSIDERED "DRAFT CONCEPTUAL" AND IS SUBJECT TO CHANGE BASED ON GEOTECHNICAL DATA, TOPOGRAPHICAL SURVEY, AND/OR ADDITIONAL INFORMATION REGARDING BIOLOGICAL FEATURE DELINEATIONS. THE HDD BORE PATH WILL BE ISSUED AS "FINAL CONCEPTUAL" AFTER COLLECTION AND EVALUATION OF BOTH TOPOGRAPHICAL SURVEY AND GEOTECHNICAL DATA AND AFTER BIOLOGICAL FEATURE DELINEATIONS ARE FINAL.
2. THIS DRAWING HAS BEEN PREPARED WITHOUT THE BENEFIT OF A COMPLETED GEOTECHNICAL INVESTIGATION PROGRAM. THE PRELIMINARY/CONCEPTUAL ALIGNMENTS WERE DETERMINED BASED UPON CURRENTLY AVAILABLE INFORMATION REGARDING THE CROSSING. IT IS POSSIBLE THAT ADDITIONAL CONSTRAINTS ASSOCIATED WITH THIS CROSSING WILL BE DISCOVERED AFTER A GEOTECHNICAL INVESTIGATION IS COMPLETED, RESULTING IN ALIGNMENT AND OTHER DESIGN CHANGES. ELEVATION DATA IS BASED ON PUBLICLY AVAILABLE DATASETS.
3. UPPER 200' OF HDD ANNULAR SPACE SHALL BE GROUTED WITH A BENTONITE/CEMENT MIXTURE.
4. THE PILOT BORE WILL BE EITHER 10.625" OR 12.25" IN DIAMETER. THE FINAL REAMED HOLE DIAMETER IS ANTICIPATED TO BE 36". THE NUMBER OF REAMING PASSES WILL BE DETERMINED BY THE CONTRACTOR SELECTED FOR THE WORK.

MISSISSIPPI HDD PLAN VIEW

Soil Stratigraphic Legend:

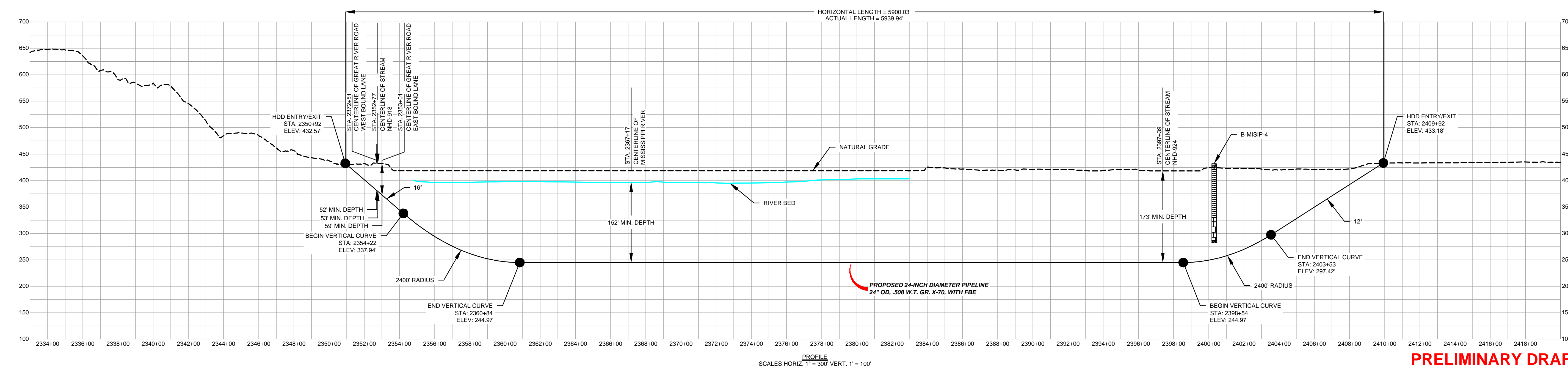
- ML: MUD
- CH: CLAY
- CL: CLAY
- SP: SAND
- SM: SILT
- SW: SAND
- GP: GRAVEL
- LIMESTONE: LIMESTONE

Rock Stratigraphic Legend:

- LIMESTONE: LIMESTONE
- MUDSTONE: MUDSTONE
- SHALE: SHALE
- CONCRETE: CONCRETE
- GP: GRAVEL

LEGEND

- PROPOSED PERMANENT EASEMENT
- EXISTING PERMANENT EASEMENT
- TEMPORARY WORKSPACE
- ADDITIONAL TEMPORARY WORKSPACE
- PROPOSED CONTRACTOR YARD
- ACCESS ROAD
- USACE EASEMENT
- PROPOSED 24" PIPELINE
- PROPERTY LINE
- LINE LIST NUMBER
- EXISTING GAS PIPELINE
- EXISTING FOREIGN PIPELINE
- EXISTING OVERHEAD LINE
- ROAD CENTERLINE
- STREAM (DELINEATED)
- STREAM (DESKTOP)
- WETLAND (DESKTOP)
- WETLAND (DELINEATED)



**PRELIMINARY DRAFT
FOR REVIEW AND COMMENT ONLY
11/23/2016**

- NOTES:**
1. THE IMAGERY SHOWN WAS PROVIDED BY AERIAL DATA SERVICES, 2016. ADDITIONAL IMAGERY SUPPLEMENTED FROM USFWS-NWI AND USGS.
 2. EXISTING FEATURES SHOWN WERE SURVEYED BY MOTT MACDONALD AND DIGITIZED FROM IMAGERY. ALL LOCATIONS ARE APPROXIMATE AND SHALL BE VERIFIED BY CONTRACTOR.
 3. PROPERTY LINES DEPICTED ON THIS PLAN ARE BASED ON GIS TAX MAP DATA.

REFERENCE DRAWINGS		REFERENCE DRAWINGS		REVISIONS				REVISIONS				APPROVALS										
DWG. NO.	TITLE	DWG. NO.	TITLE	NO.	REVISIONS	DATE	DRAWN	CK	APPR	NO.	REVISIONS	DATE	DRAWN	CK	APPR	DRAWN BY	DATE	ENG. APPROVAL	DATE	CLIENT APPROVAL	DATE	

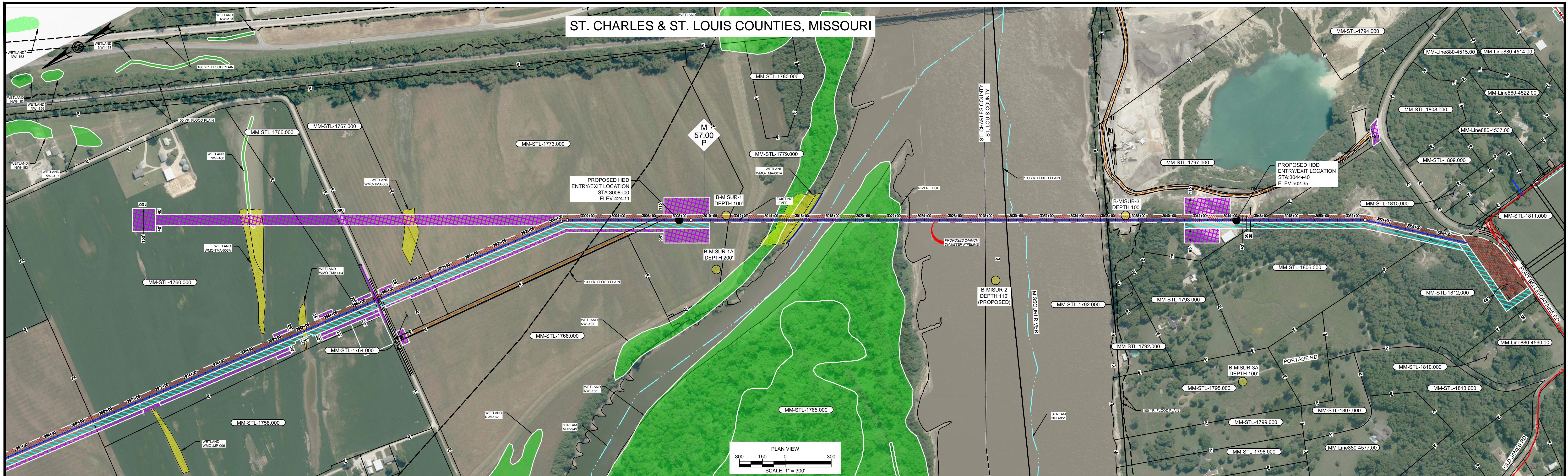
PREPARED FOR
**Spire
STL Pipeline**

PREPARED BY
**MOTT
MACDONALD**

SPIRE STL PIPELINE PROJECT
HDD PROFILE OVERVIEW
MISSISSIPPI RIVER MAINLINE
JERSEY COUNTY, ILLINOIS & ST. CHARLES COUNTY, MISSOURI

G:\Spire\372453_STL\Spire\Profile\Drafting\HDD_Profile\Profile\Mainline_Plan and Profile.dwg Nov 23, 2016 - 1:52PM PAINT1158

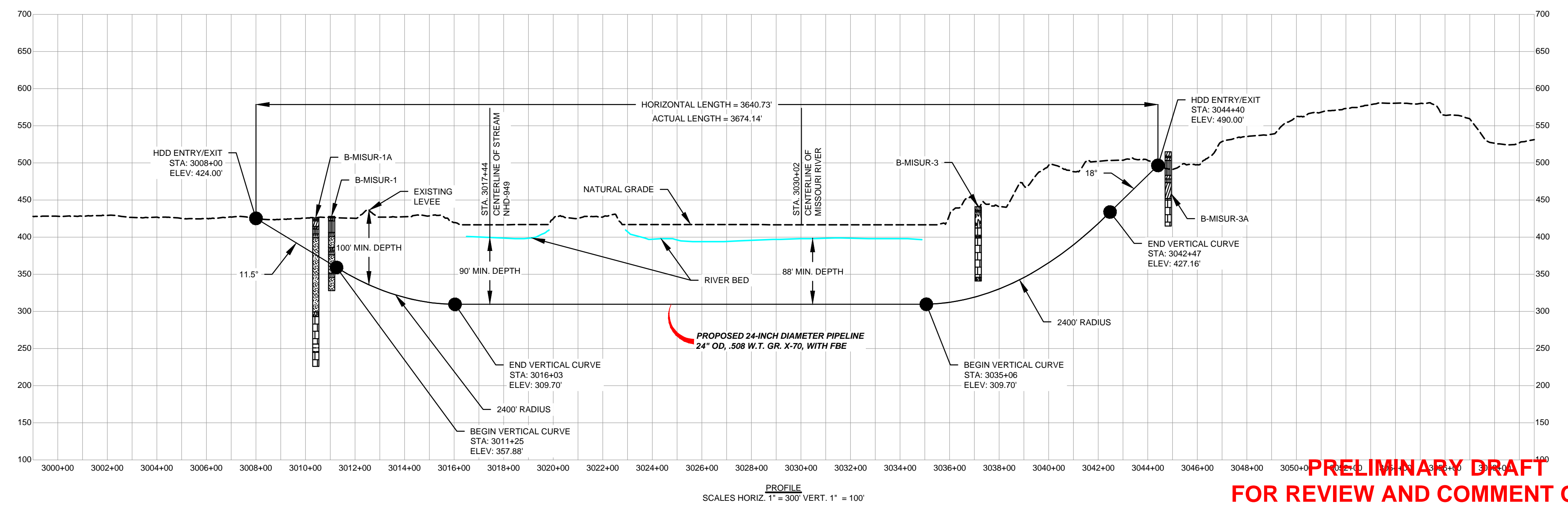
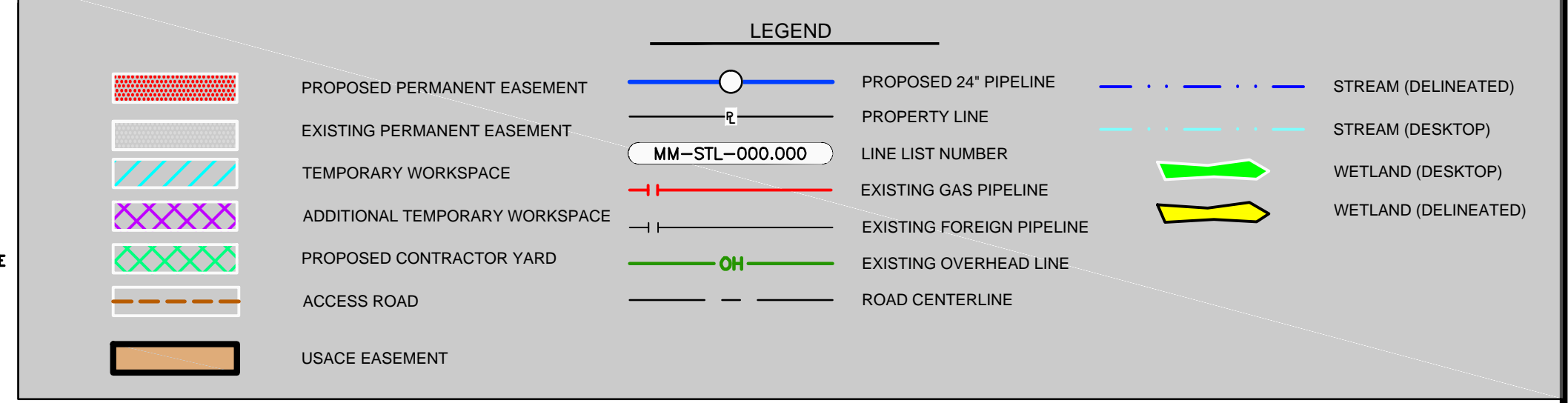
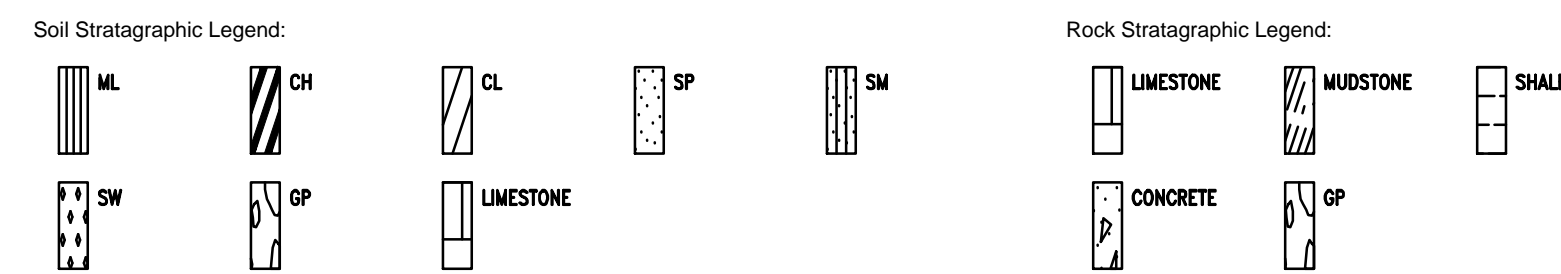
ST. CHARLES & ST. LOUIS COUNTIES, MISSOURI



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MISSOURI RIVER HDD PLAN VIEW



**PRELIMINARY DRAFT
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REFERENCE DRAWINGS		REFERENCE DRAWINGS		REVISIONS				REVISIONS				APPROVALS				PREPARED FOR		PREPARED BY		SPIRE STL PIPELINE PROJECT							
DWG. NO.	TITLE	DWG. NO.	TITLE	NO.	REVISIONS	DATE	DRAWN	CK	APPR	NO.	REVISIONS	DATE	DRAWN	CK	APPR	DRAWN BY	DATE	ENG. APPROVAL	DATE	CLIENT APPROVAL	DATE	Spire STL Pipeline		MOTT MACDONALD		HDD PROFILE OVERVIEW MISSOURI RIVER MAINLINE ST. CHARLES & ST. LOUIS COUNTIES, MISSOURI	

Ali Trunzo

From: Jayme Fuller
Sent: Tuesday, November 29, 2016 2:55 PM
To: Rodriguez Robles, Edward C MVS; Allen, Teri C MVS; Meyer, David P MVS; Hoerner, Melissa L MVS; audrey.beres@mdc.mo.gov; Matthew.J.Hunn@usace.army.mil
Cc: Lori Ferry
Subject: Spire STL Pipeline draft HDD Plan (email 1 of 2)
Attachments: Spire - STLP - HDD Plan and Profiles_2016_11_23.pdf

Hi Ed,

I have attached the 60% design of the HDD crossings for both the Mississippi and Missouri River crossings. Please forward this email on to Matt/Josh as I am not sure I have copied the correct email address. I will also send the geotech report results of the land based bores in a separate email due to the size of the document.

I will see everyone tomorrow. Thanks!

Jayme L. Fuller, Environmental Manager

GAI Consultants, Inc.

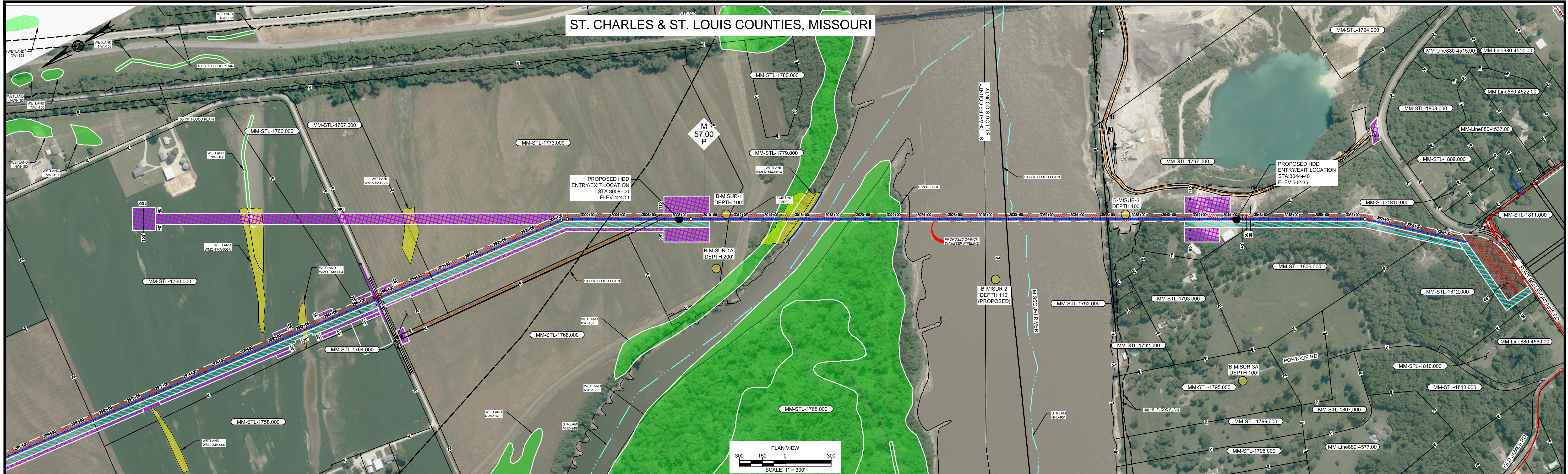
Charleston Office | 300 Summers Street, Suite 1100, Charleston WV 25301

Indianapolis Office | 6420 Castleway West, Indianapolis, IN 46250

1-234-203-0763 | C 614.499.6258 | 

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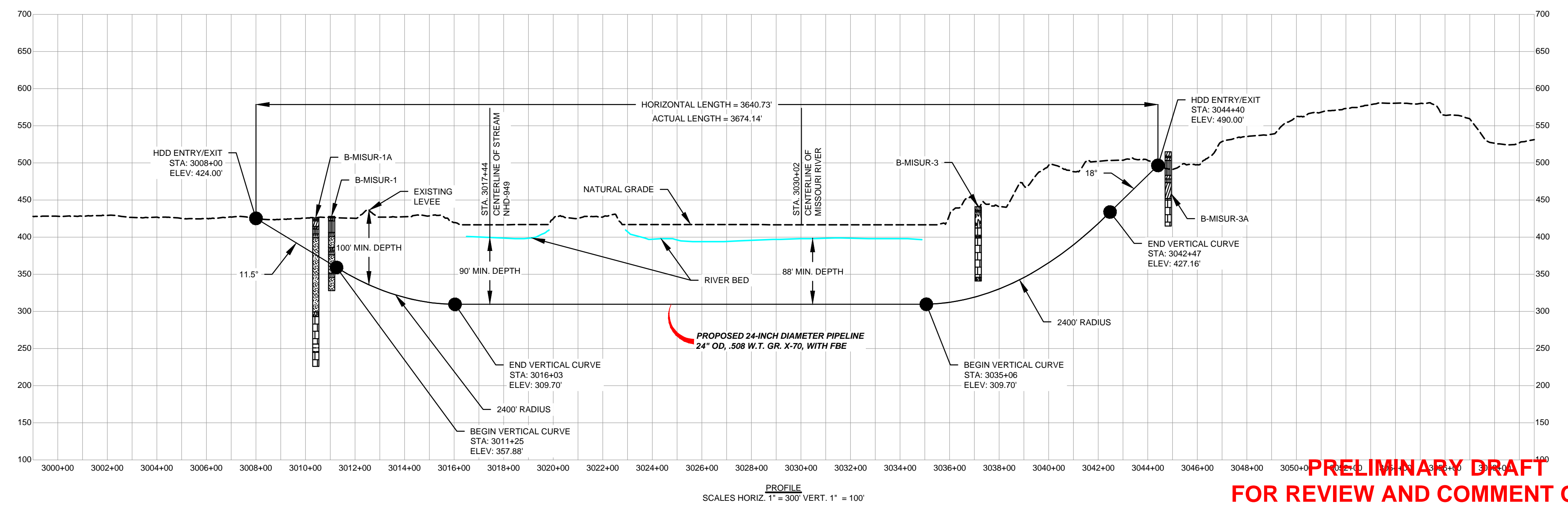
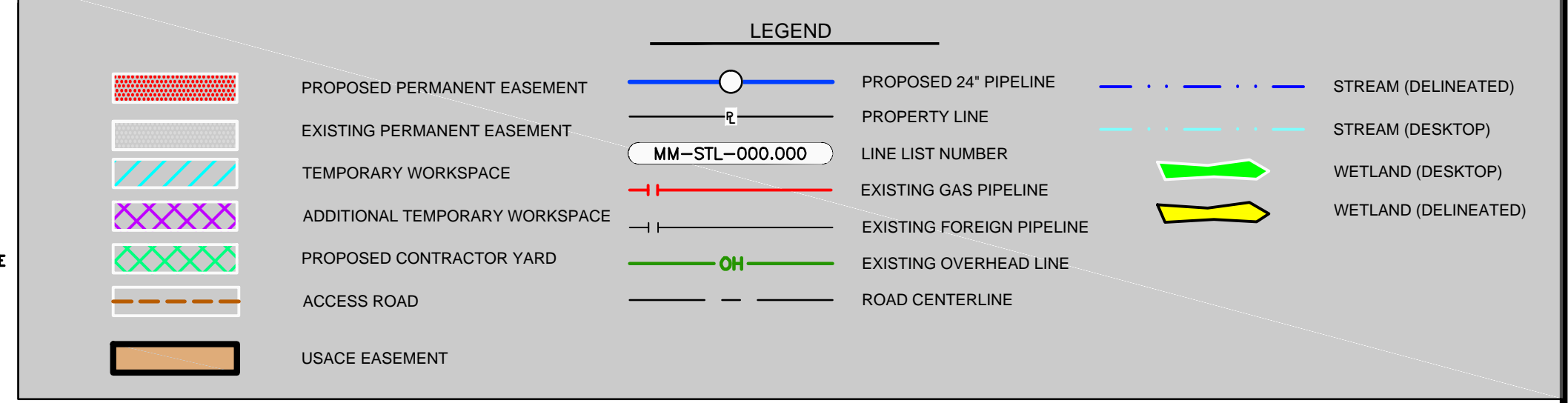
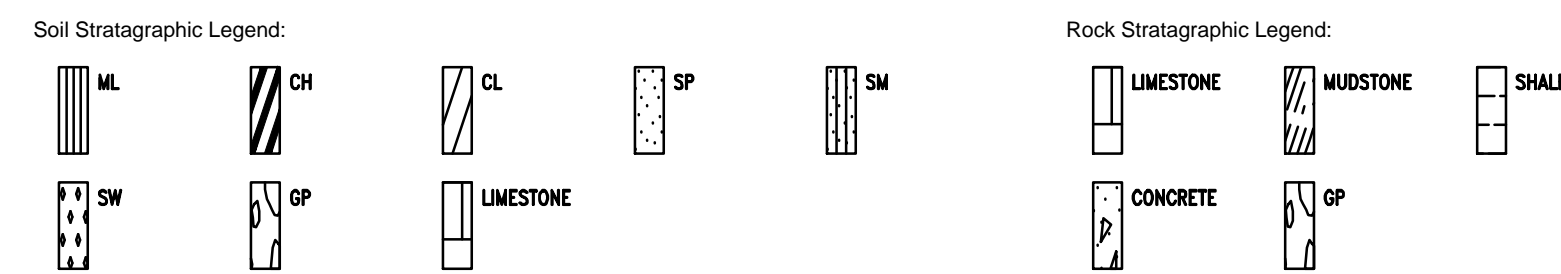
ST. CHARLES & ST. LOUIS COUNTIES, MISSOURI



DRAFT CONCEPTUAL HDD NOTES:

1. THE HDD BORE PATH DEPICTED ON THIS DRAWING IS CONSIDERED "DRAFT CONCEPTUAL" AND IS SUBJECT TO CHANGE BASED ON GEOTECHNICAL DATA, TOPOGRAPHICAL SURVEY, AND/OR ADDITIONAL INFORMATION REGARDING BIOLOGICAL FEATURE DELINEATIONS. THE HDD BORE PATH WILL BE ISSUED AS "FINAL CONCEPTUAL" AFTER COLLECTION AND EVALUATION OF BOTH TOPOGRAPHICAL SURVEY AND GEOTECHNICAL DATA AND AFTER BIOLOGICAL FEATURE DELINEATIONS ARE FINAL.
2. THIS DRAWING HAS BEEN PREPARED WITHOUT THE BENEFIT OF A COMPLETED GEOTECHNICAL INVESTIGATION PROGRAM. THE PRELIMINARY/CONCEPTUAL ALIGNMENTS WERE DETERMINED BASED UPON CURRENTLY AVAILABLE INFORMATION REGARDING THE CROSSING. IT IS POSSIBLE THAT ADDITIONAL CONSTRAINTS ASSOCIATED WITH THIS CROSSING WILL BE DISCOVERED AFTER A GEOTECHNICAL INVESTIGATION IS COMPLETED, RESULTING IN ALIGNMENT AND OTHER DESIGN CHANGES. ELEVATION DATA IS BASED ON PUBLICLY AVAILABLE DATASETS.
3. UPPER 200' OF HDD ANNUAL SPACE SHALL BE GROUTED WITH A BENTONITE/CEMENT MIXTURE.
4. THE PILOT BORE WILL BE EITHER 10.625" OR 12.25" IN DIAMETER. THE FINAL REAMED HOLE DIAMETER IS ANTICIPATED TO BE 36". THE NUMBER OF REAMING PASSES WILL BE DETERMINED BY THE CONTRACTOR SELECTED FOR THE WORK.

MISSOURI RIVER HDD PLAN VIEW



**PRELIMINARY DRAFT
FOR REVIEW AND COMMENT ONLY
11/23/2016**

- NOTES:
1. THE IMAGERY SHOWN WAS PROVIDED BY AERIAL DATA SERVICES, 2016. ADDITIONAL IMAGERY SUPPLEMENTED FROM USFWS-NWI AND USGS.
 2. EXISTING FEATURES SHOWN WERE SURVEYED BY MOTT MACDONALD AND DIGITIZED FROM IMAGERY. ALL LOCATIONS ARE APPROXIMATE AND SHALL BE VERIFIED BY CONTRACTOR.
 3. PROPERTY LINES DEPICTED ON THIS PLAN ARE BASED ON GIS TAX MAP DATA.

REFERENCE DRAWINGS		REFERENCE DRAWINGS		REVISIONS				REVISIONS				APPROVALS				PREPARED FOR		PREPARED BY		SPIRE STL PIPELINE PROJECT							
DWG. NO.	TITLE	DWG. NO.	TITLE	NO.	REVISIONS	DATE	DRAWN	CK	APPR	NO.	REVISIONS	DATE	DRAWN	CK	APPR	DRAWN BY	DATE	ENG. APPROVAL	DATE	CLIENT APPROVAL	DATE	Spire STL Pipeline		MOTT MACDONALD		HDD PROFILE OVERVIEW MISSOURI RIVER MAINLINE ST. CHARLES & ST. LOUIS COUNTIES, MISSOURI	

Ali Trunzo

From: Jayme Fuller
Sent: Tuesday, November 29, 2016 2:58 PM
To: Rodriguez Robles, Edward C MVS; Allen, Teri C MVS; Meyer, David P MVS; Hoerner, Melissa L MVS; Matthew.J.Hunn@usace.army.mil
Cc: Lori Ferry
Subject: Spire STL Pipeline (email 2 of 2)
Attachments: Spire STL Pipeline - Geotechnical Data Report - Rev. DRAFT (11NOV2016).pdf

Hi Ed,

Please see the second email attachment of the Geotech Data Report for the upland bores.

Thanks

Jayme L. Fuller, Environmental Manager

GAI Consultants, Inc.

Charleston Office | 300 Summers Street, Suite 1100, Charleston WV 25301

Indianapolis Office | 6420 Castleway West, Indianapolis, IN 46250

1-234-203-0763 | C 614.499.6258 |     

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Ali Trunzo

Subject: FW: Spire STL Pipeline-Consultation
Attachments: Current_Route_UTM15N.ZIP

From: Lori Ferry
Sent: Monday, November 07, 2016 12:13 PM
To: Ali Trunzo <A.Trunzo@gaiconsultants.com>
Subject: FW: Spire STL Pipeline-Consultation

From: Lori Ferry
Sent: Monday, November 07, 2016 10:58 AM
To: 'Jennifer Campbell' <Jennifer.Campbell@mdc.mo.gov>
Subject: RE: Spire STL Pipeline-Consultation

Hi Jennifer
Sure thing, here you are! Let me know if you have any trouble opening these.

Thanks,
Lori

From: Jennifer Campbell [<mailto:Jennifer.Campbell@mdc.mo.gov>]
Sent: Friday, November 04, 2016 5:13 PM
To: Lori Ferry <L.Ferry@gaiconsultants.com>
Subject: RE: Spire STL Pipeline-Consultation

Hi Lori,
Thanks for the KMZ. Is there a possibility of receiving this in shapefile format?

Thanks,

From: Lori Ferry [<mailto:L.Ferry@gaiconsultants.com>]
Sent: Friday, November 04, 2016 2:15 PM
To: Jennifer Campbell
Subject: RE: Spire STL Pipeline-Consultation

Hi Jennifer,
I've attached a KMZ of the proposed route for your review.
Also, we sent you electronic files of our recent filing with FERC. Please let me know if you were able to download those files.

Thank you,
Lori

From: Jennifer Campbell [<mailto:Jennifer.Campbell@mdc.mo.gov>]
Sent: Thursday, November 03, 2016 12:14 PM

To: Lori Ferry <L.Ferry@gaiconsultants.com>

Subject: RE: Spire STL Pipeline-Consultation

Lori,

Thanks for visiting last week. I believe you would send some updated information (shapefile, etc) for our review?

Thanks,

Jennifer

From: Lori Ferry [<mailto:L.Ferry@gaiconsultants.com>]

Sent: Friday, October 28, 2016 12:56 PM

To: Jennifer Campbell

Subject: RE: Spire STL Pipeline-Consultation

Hi Jennifer

Yes we received the Natural Heritage Report.

I just wanted to review the results of the report with you and let you know where we were at with the USFWS as some of the species overlap. We never had any follow up with Audrey once the report was issued to make sure the state and the USFWS were all on the same page for the species in which we intended to do surveys for.

If you can let me know a good time to chat, I will give you a call!

Thanks so much for the shapefile. We are reviewing it now.

Lori

From: Jennifer Campbell [<mailto:Jennifer.Campbell@mdc.mo.gov>]

Sent: Tuesday, October 25, 2016 5:13 PM

To: Lori Ferry <L.Ferry@gaiconsultants.com>

Cc: 'Hoerner, Melissa L MVS' <Melissa.L.Hoerner@usace.army.mil>; Jane_Ledwin@fws.gov

Subject: RE: Spire STL Pipeline-Consultation

Lori,

Attached are the shapefiles for Upper Mississippi Conservation Area, through which the proposed Spire line would run.

Regarding a review of species of conservation concern, did you receive previously the Natural Heritage Review Report from Audrey Beres? I can send that along with a letter with any concerns based on what is known currently. Things may change slightly for you once you are able to work with the shapefile, and please let me know if so. At the 20,000ft view it looks like bats and eagles will be your biggest species considerations at this location, although there could be decurrent false aster and karst features in this area. I will send the report along with comments.

What other questions might you have?

Thanks,

Jennifer

From: Jennifer Campbell

Sent: Tuesday, October 18, 2016 12:06 PM

To: Lori Ferry (L.Ferry@gaiconsultants.com)

Cc: 'Hoerner, Melissa L MVS'

Subject: FW: Spire STL Pipeline-Consultation

Lori,

Below are screen shots of a portion of the Upper Mississippi Conservation Area. As described by phone, I am not certain whether our boundary correlates directly to the USACE lands boundary. I will follow up with the shapefile of the Upper Mississippi Conservation Area, but may need to enlist help to zip and attach the extensions.

Thanks,
Jennifer

Jennifer K. Campbell

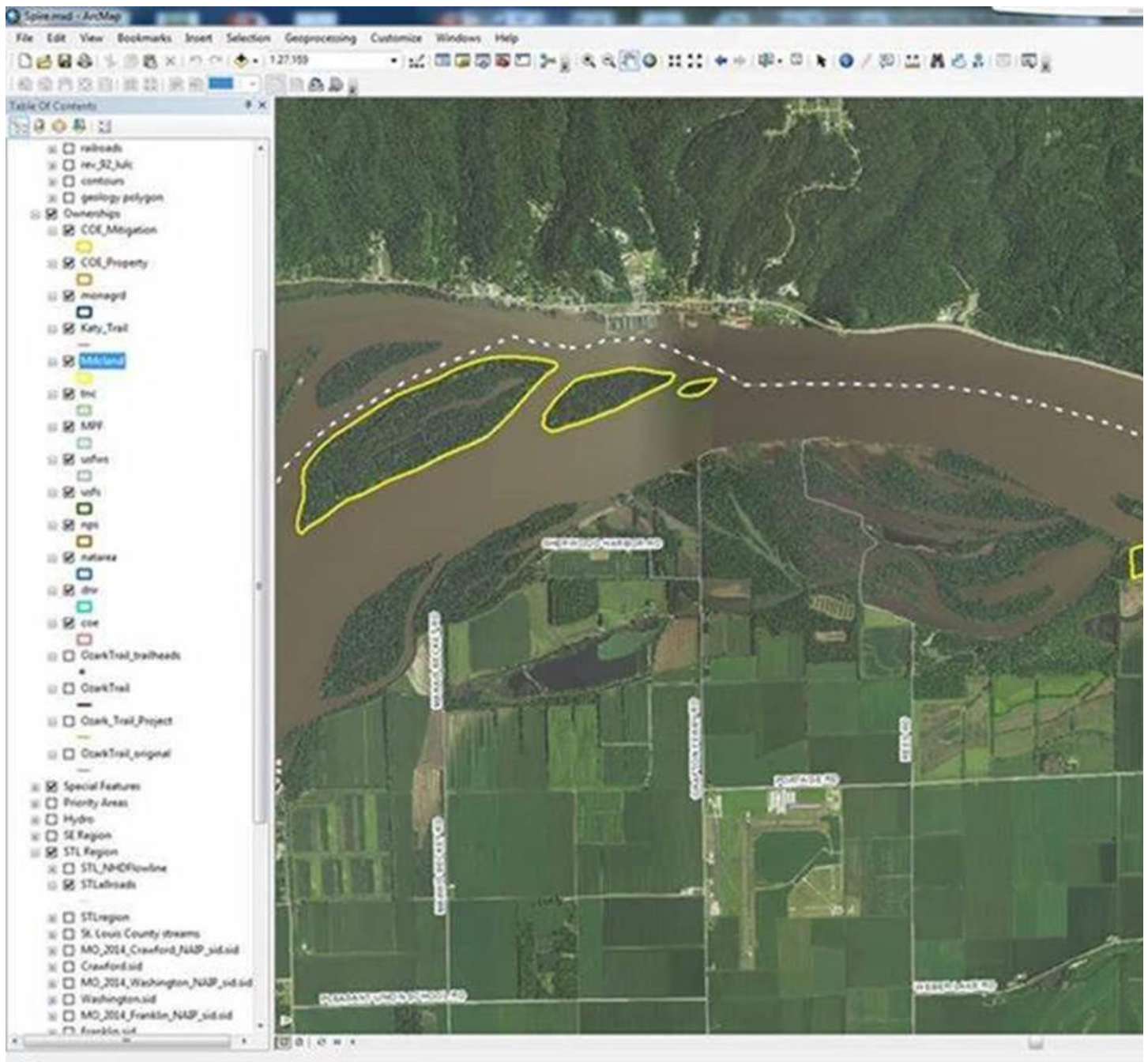
Policy Coordinator

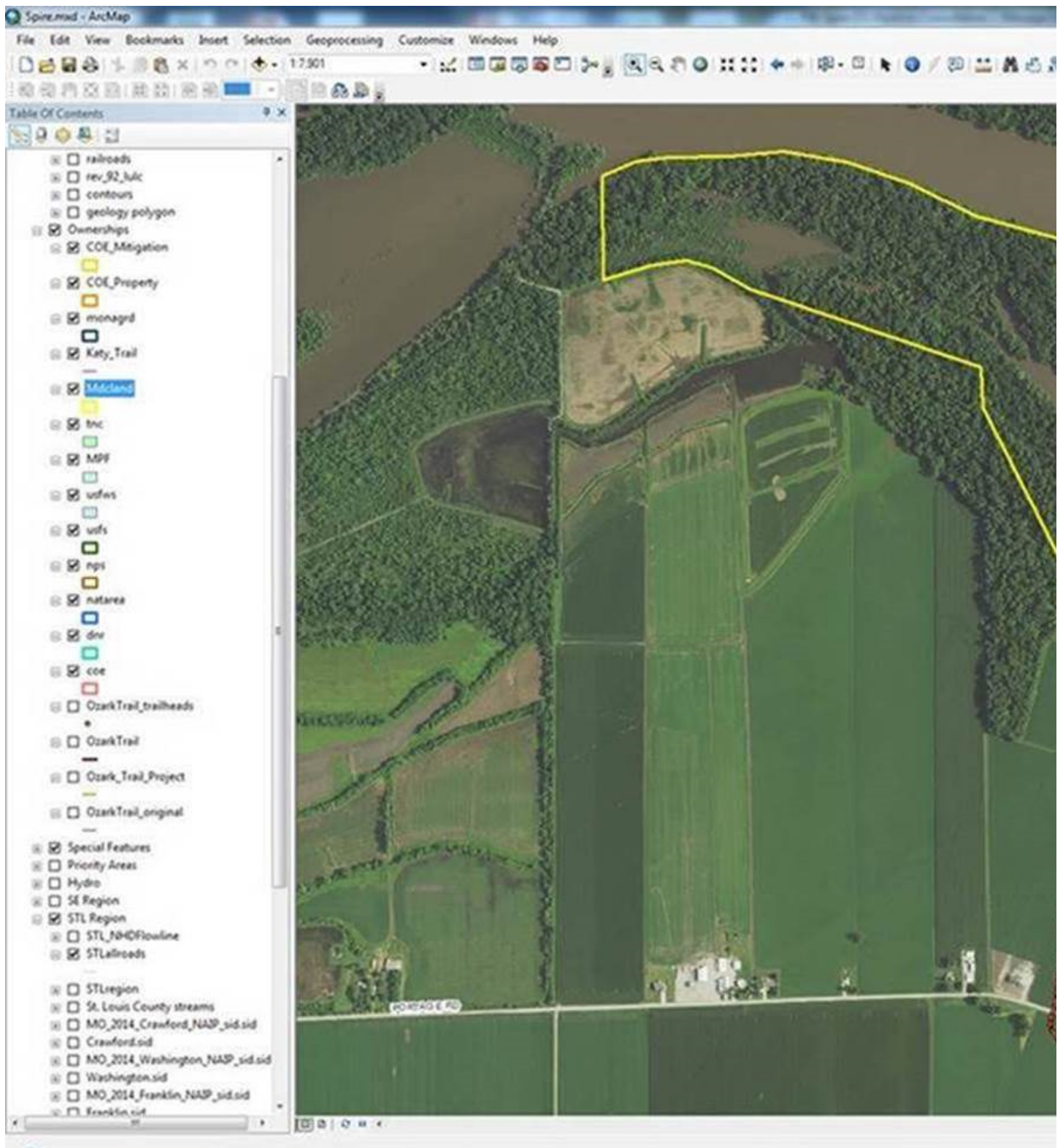
Missouri Department of Conservation

(573) 522-4115x3159

Jennifer.Campbell@mdc.mo.gov







Ali Trunzo

From: Lori Ferry
Sent: Monday, October 17, 2016 5:51 PM
To: Ali Trunzo
Subject: FW: Spire STL Pipeline-Consultation
Attachments: 6131map.pdf

From: Jennifer Campbell [<mailto:Jennifer.Campbell@mdc.mo.gov>]
Sent: Monday, October 17, 2016 4:46 PM
To: Lori Ferry <L.Ferry@gaiconsultants.com>
Subject: RE: Spire STL Pipeline-Consultation

Hi Lori,
Let me know if this one comes through.
Thanks,
Jennifer

From: Lori Ferry [<mailto:L.Ferry@gaiconsultants.com>]
Sent: Monday, October 17, 2016 4:33 PM
To: Jennifer Campbell
Subject: RE: Spire STL Pipeline-Consultation

Hi Jennifer,
Sorry, I did not receive an attachment with your email. Can you please re-send?

Thanks,
Lori

From: Jennifer Campbell [<mailto:Jennifer.Campbell@mdc.mo.gov>]
Sent: Monday, October 17, 2016 4:26 PM
To: Lori Ferry <L.Ferry@gaiconsultants.com>
Subject: RE: Spire STL Pipeline-Consultation

Lori,

Thanks for your message.

Attached is the map of the Upper Mississippi River Conservation Area. I believe the area you'll want to examine is Pool 26, PDF page 8 of 9.

I will see what I can learn about the mitigation policy, and whether the lands are enhanced with federal dollars from the program I mentioned. Also, I will reach out to Lynn Horner in USACE Realty Services about the shapefile.

Thanks,
Jennifer

Jennifer K. Campbell
Policy Coordinator

Missouri Department of Conservation
(573) 522-4115x3159
Jennifer.Campbell@mdc.mo.gov



From: Lori Ferry [<mailto:L.Ferry@gaiconsultants.com>]
Sent: Friday, October 14, 2016 2:45 PM
To: Jennifer Campbell
Subject: Spire STL Pipeline-Consultation

Hi Jennifer

As a follow-up to my voicemail, I wanted to reach out and see if there might be a good time that we can set up to discuss the Spire STL Pipeline Project.

We had originally been communicating with Audrey Beres who has since gone on maternity leave. I was informed that you had been appointed as her replacement on this Project going forward.

She had indicated that she had a letter to send to us per our original consultation request but this letter has not yet been received.





The Project is currently proposed to cross the Upper Mississippi Conservation Area on the south side of the Mississippi River. We had been communicating with her regarding the crossing and other species that we may potentially encounter along the Project.

Please let me know if you are the correct person to reach out to and if any project information has been forwarded your way. I'd be happy to send you any information you may need.

If there is a good time we can set up to go through the latest information we have on the Project and discuss any concerns from the Department that would great.

Thanks again and have a good weekend,
Lori Ferry

Lori Ferry
Environmental Manager-Energy Business Unit

GAI Consultants
Chicago Office | 1444 Farnsworth Avenue, Suite 303 Aurora, Illinois 60505
T 331.301.2002 M 630.605.5255 | gaiconsultants.com |    
l.ferry@gaiconsultants.com



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POOL 21 COTTONWOOD ISLAND POAGE ISLAND

RIVER MILES 319 TO 331

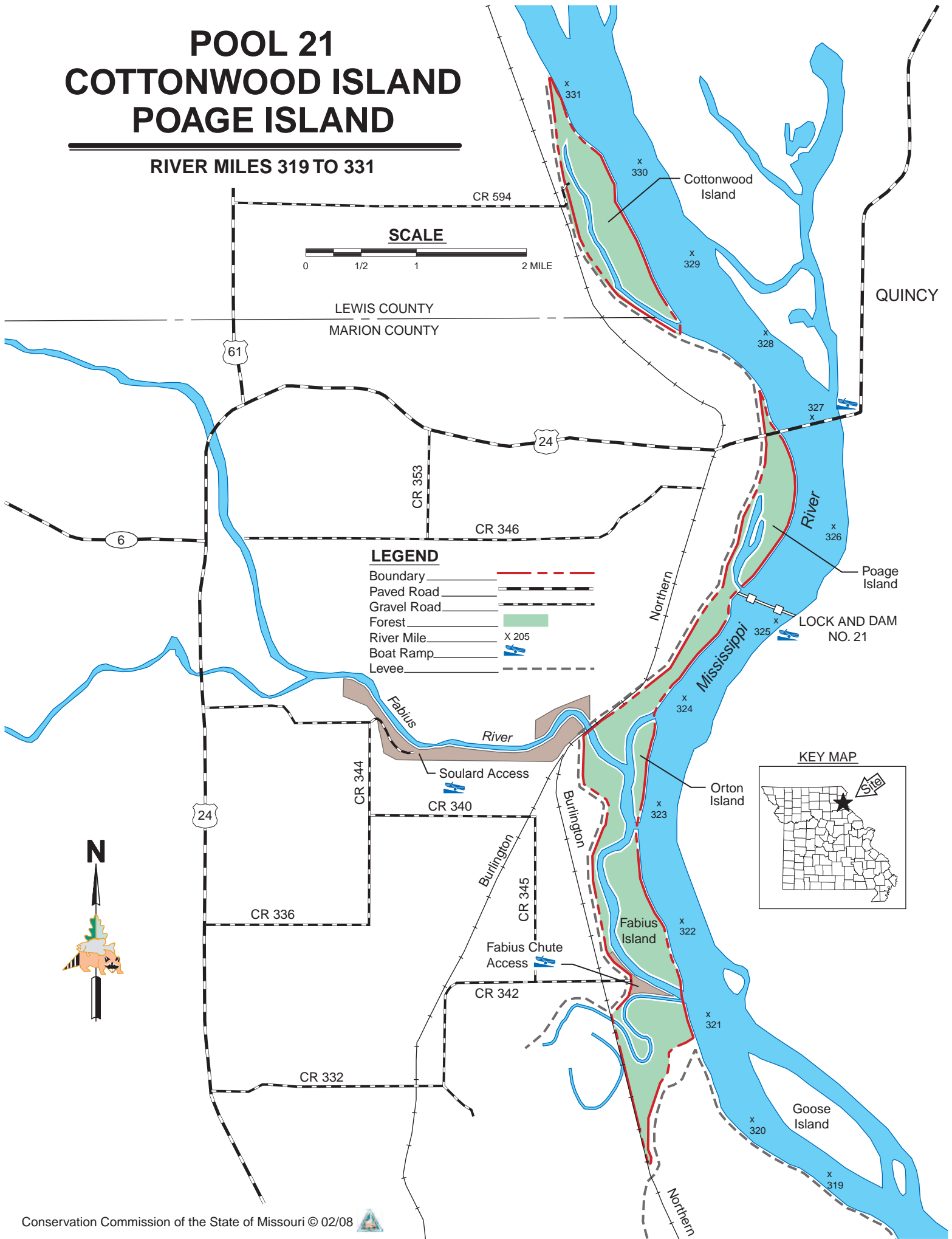


LEWIS COUNTY
MARION COUNTY

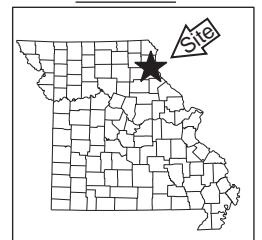
QUINCY

LEGEND

- Boundary
- Paved Road
- Gravel Road
- Forest
- River Mile
- Boat Ramp
- Levee

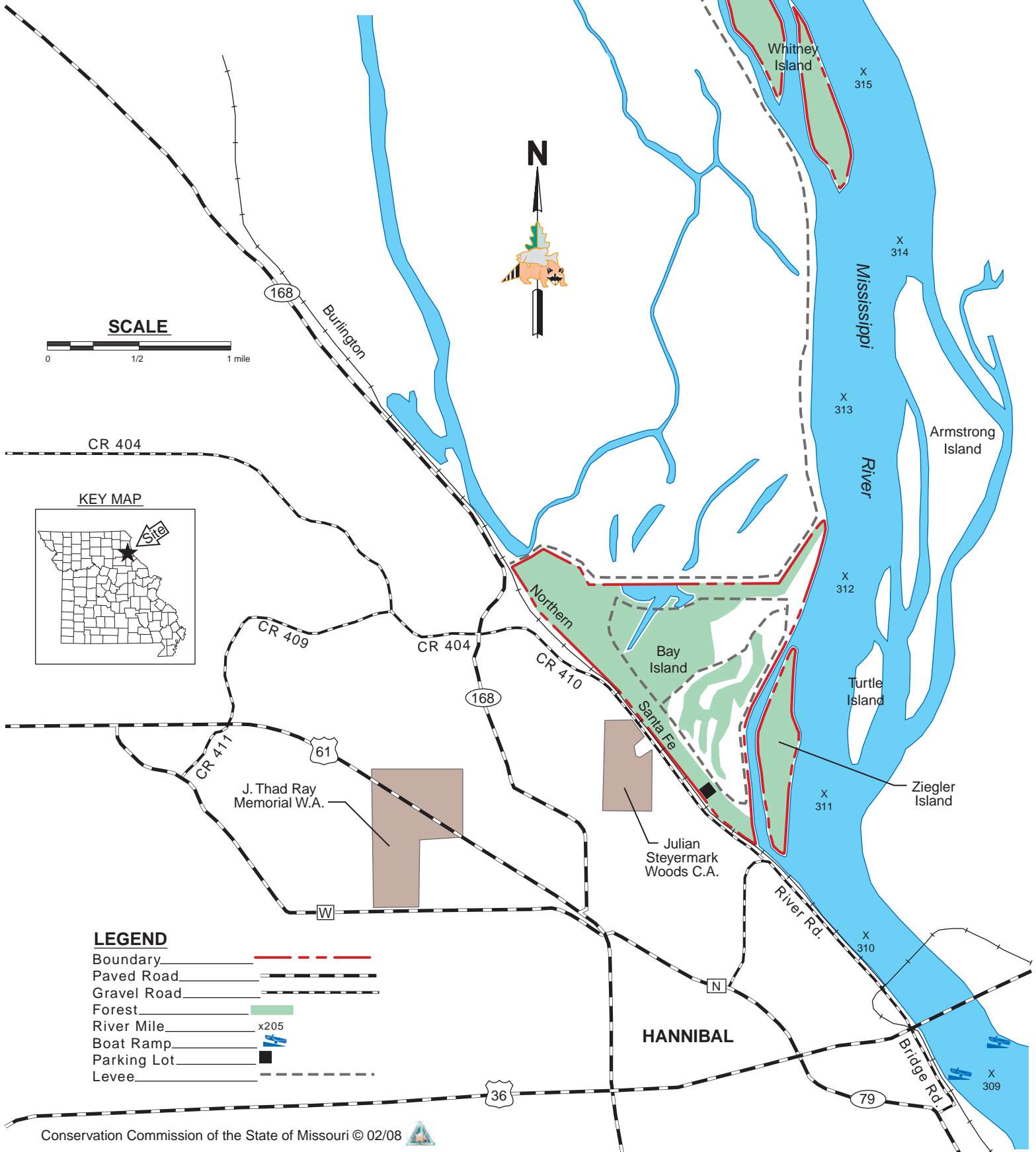


KEY MAP



POOL 22 WHITNEY ISLAND BAY ISLAND

RIVER MILES 309 TO 316



SCALE

N

KEY MAP








LEGEND

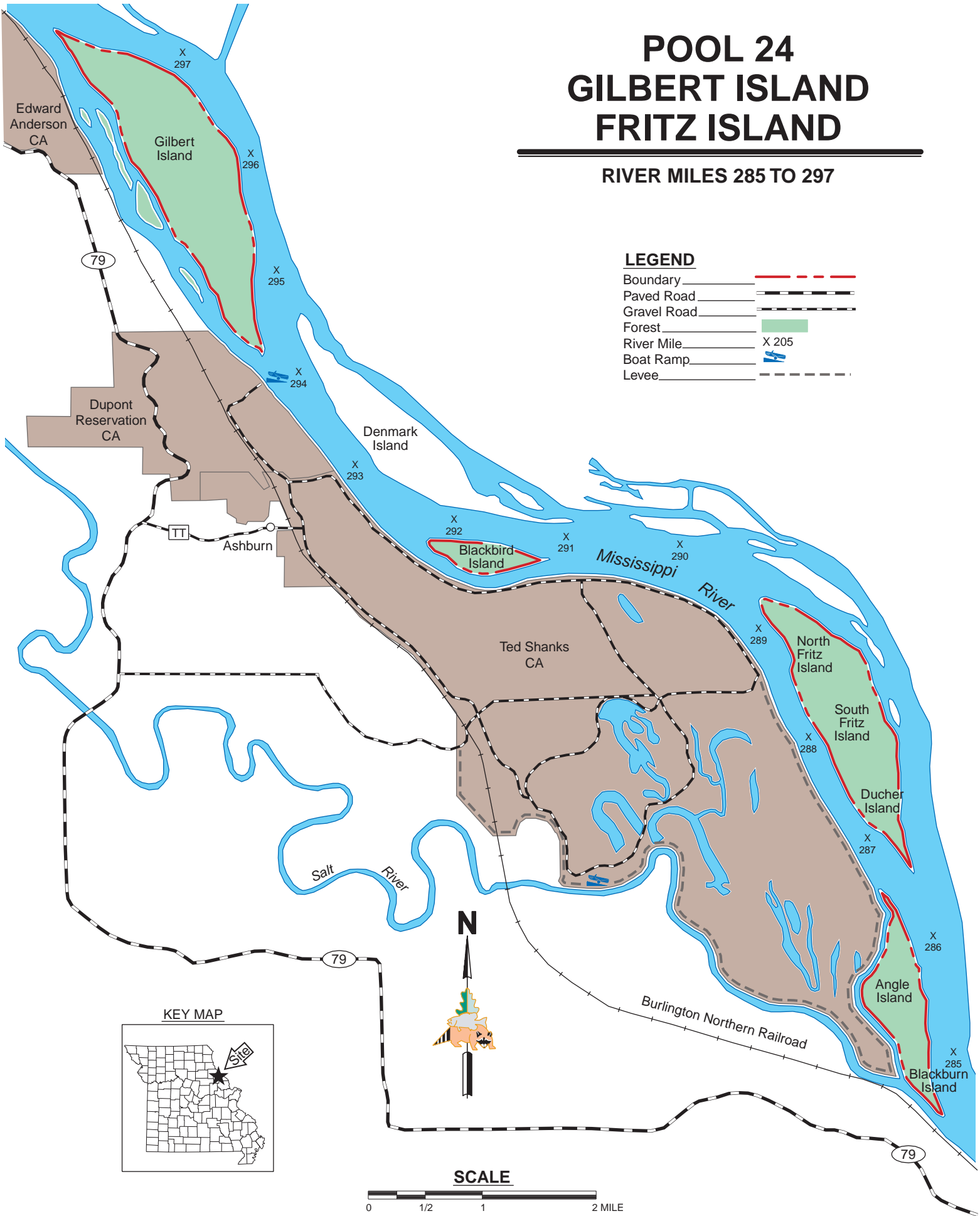
- Boundary
- Paved Road
- Gravel Road
- Forest
- River Mile x205
- Boat Ramp M
- Parking Lot ■
- Levee

POOL 24 GILBERT ISLAND FRITZ ISLAND

RIVER MILES 285 TO 297

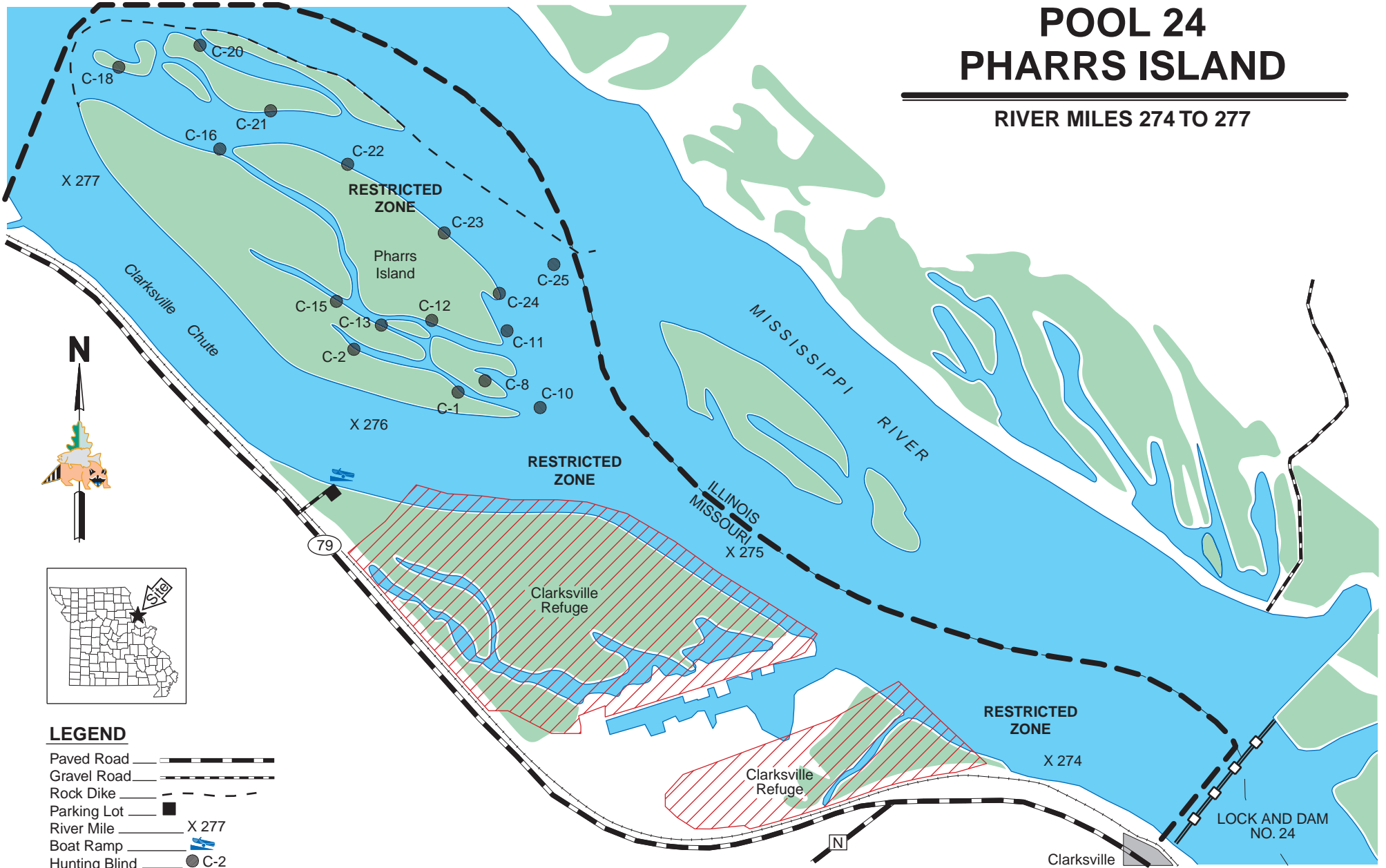
LEGEND

- Boundary 
- Paved Road 
- Gravel Road 
- Forest 
- River Mile 
- Boat Ramp 
- Levee 



POOL 24 PHARRS ISLAND

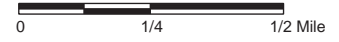
RIVER MILES 274 TO 277



LEGEND

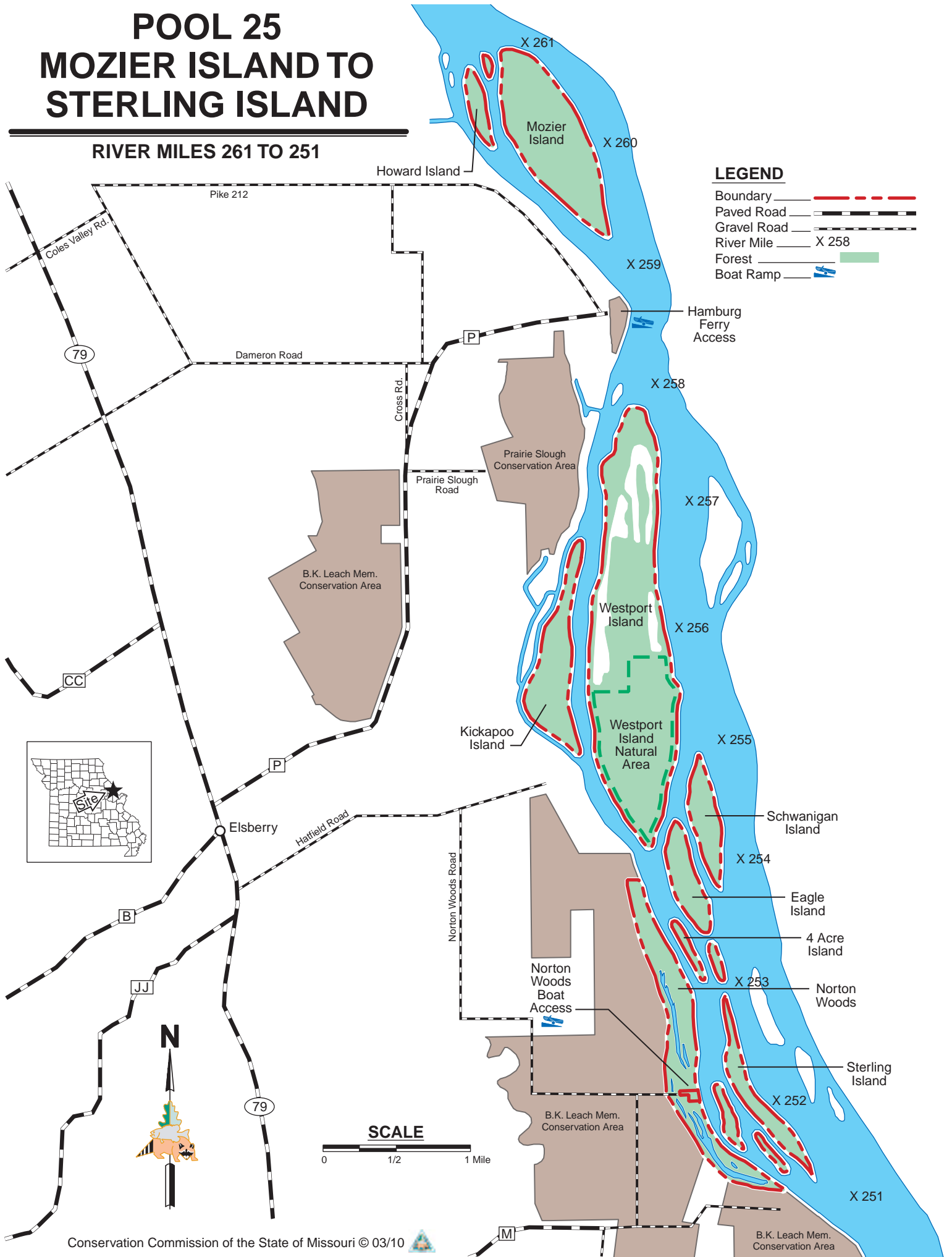
- Paved Road ————
- Gravel Road ————
- Rock Dike ————
- Parking Lot —■
- River Mile — X 277
- Boat Ramp —
- Hunting Blind —● C-2
- Forest —
- Railroad ————

SCALE



POOL 25 MOZIER ISLAND TO STERLING ISLAND

RIVER MILES 261 TO 251



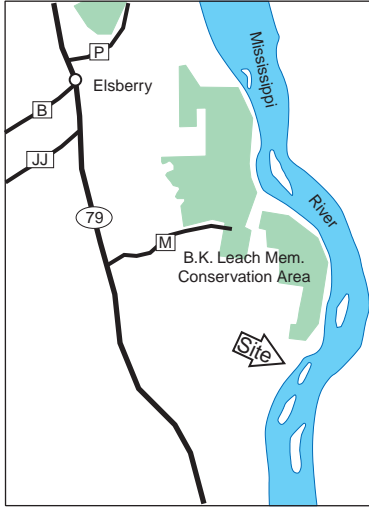
LEGEND

- Boundary
- Paved Road
- Gravel Road
- River Mile
- Forest
- Boat Ramp

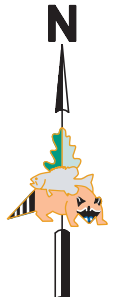
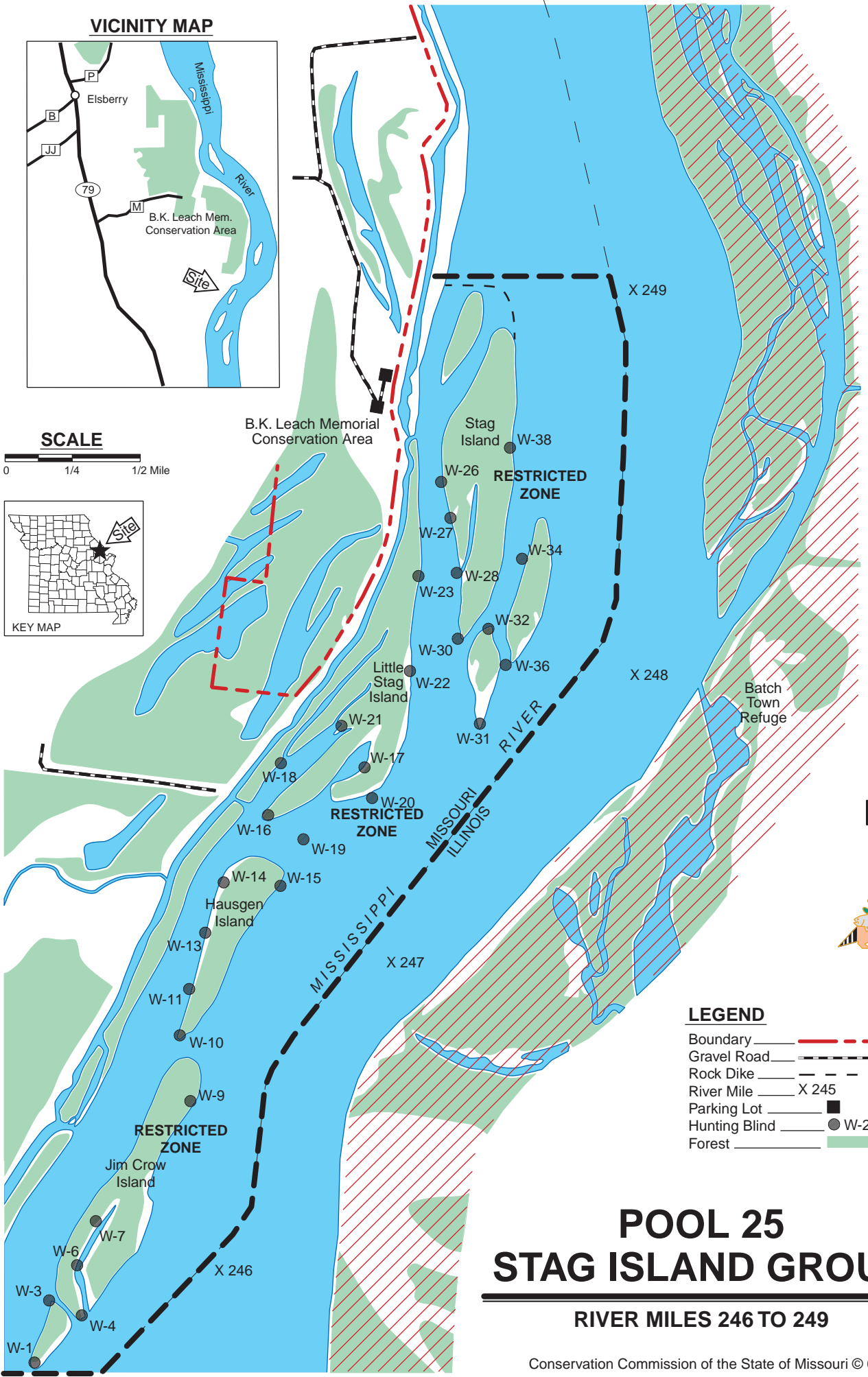
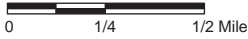
SCALE

0 1/2 1 Mile

VICINITY MAP



SCALE



LEGEND

- Boundary
- Gravel Road
- Rock Dike
- River Mile X 245
- Parking Lot
- Hunting Blind ● W-22
- Forest

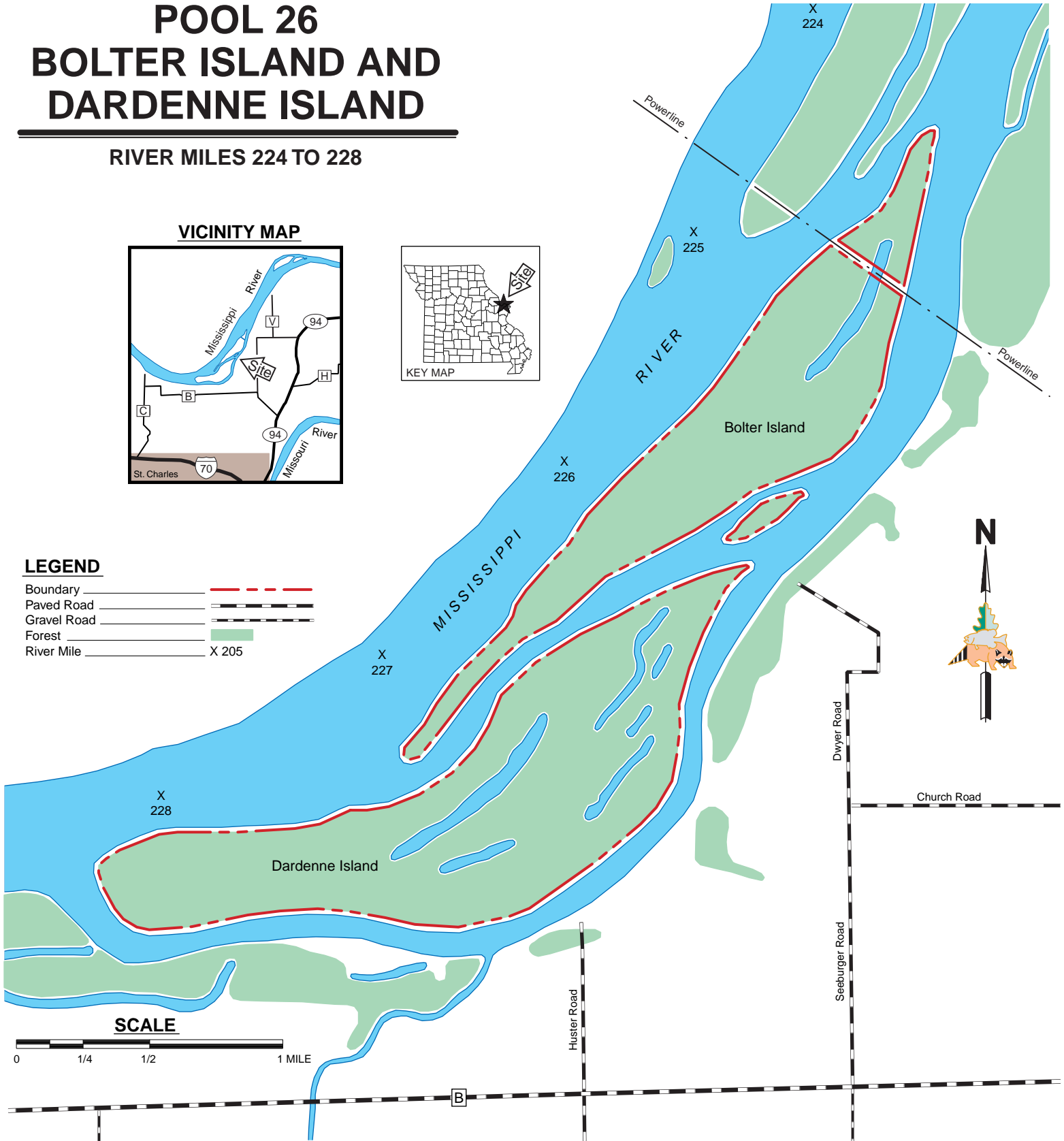
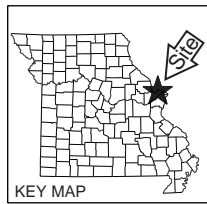
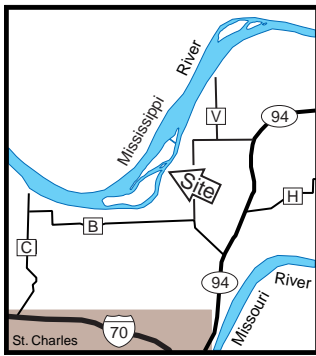
**POOL 25
STAG ISLAND GROUP**

RIVER MILES 246 TO 249

POOL 26 BOLTER ISLAND AND DARDENNE ISLAND

RIVER MILES 224 TO 228

VICINITY MAP



LEGEND

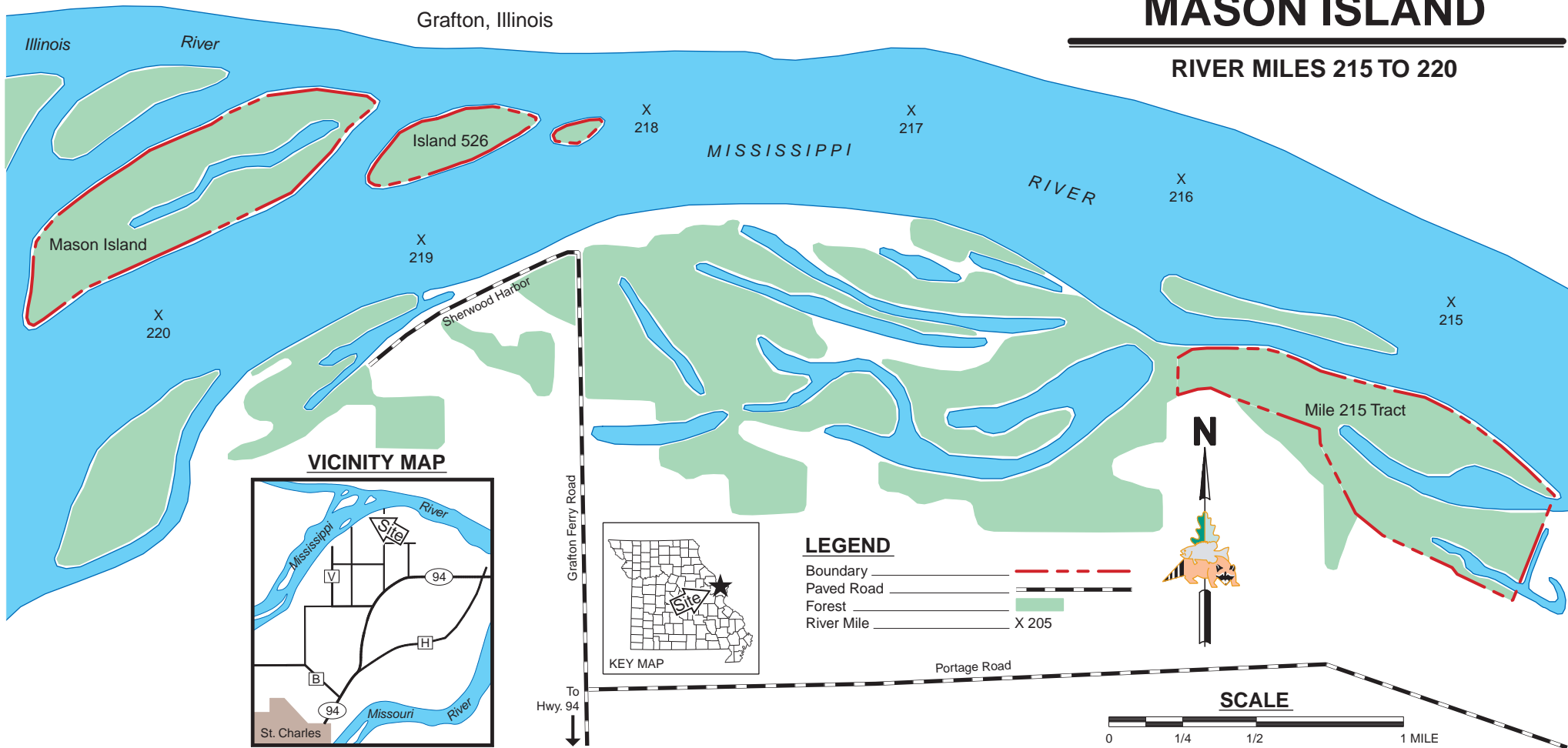
- Boundary
- Paved Road
- Gravel Road
- Forest
- River Mile

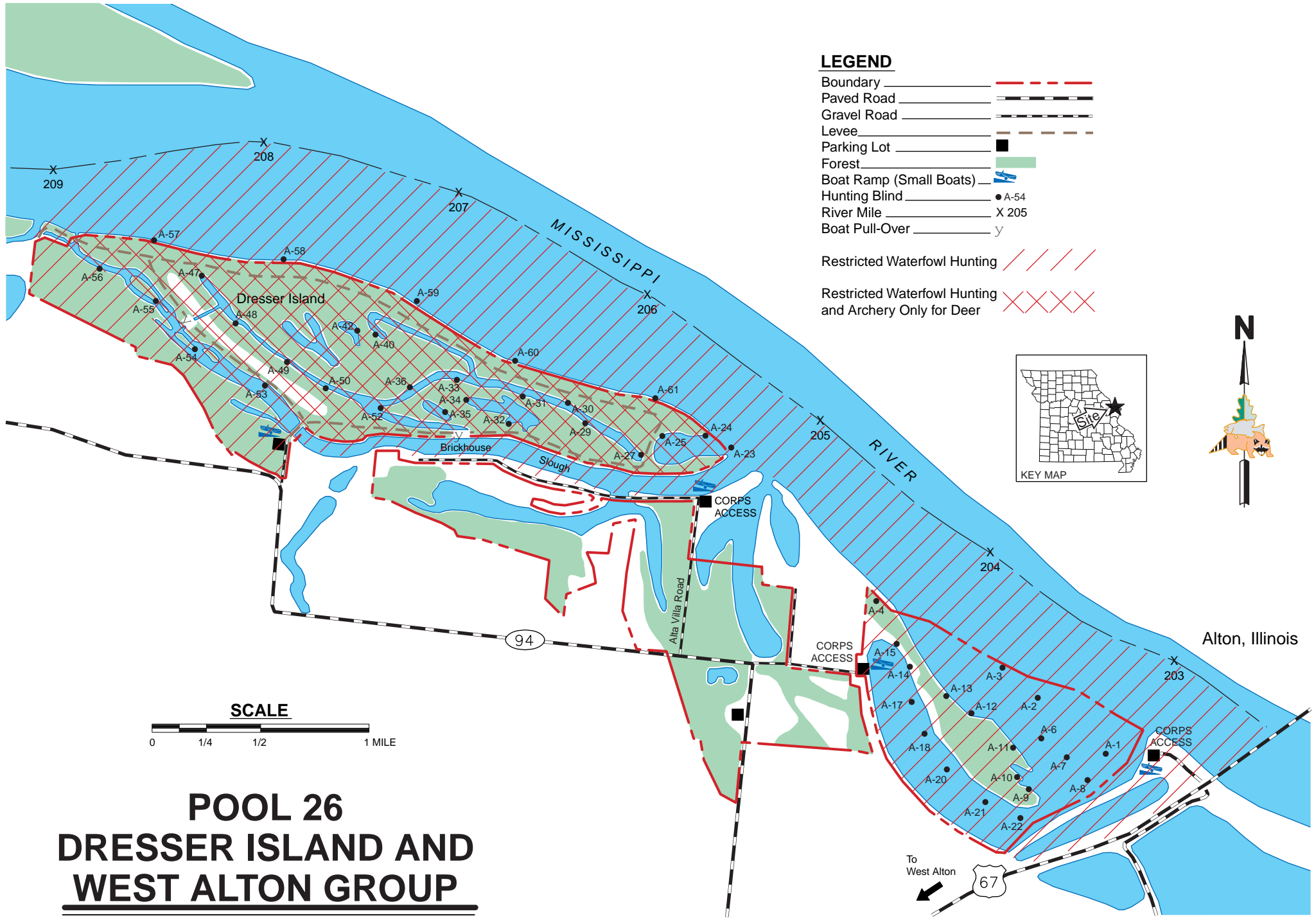
SCALE



POOL 26 MASON ISLAND

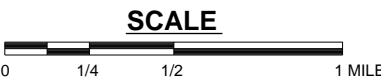
RIVER MILES 215 TO 220





LEGEND

- Boundary
- Paved Road
- Gravel Road
- Levee
- Parking Lot
- Forest
- Boat Ramp (Small Boats)
- Hunting Blind A-54
- River Mile 205
- Boat Pull-Over
- Restricted Waterfowl Hunting
- Restricted Waterfowl Hunting and Archery Only for Deer



**POOL 26
DRESSER ISLAND AND
WEST ALTON GROUP**

RIVER MILES 203 TO 209

Ali Trunzo

From: Lori Ferry
Sent: Friday, October 14, 2016 3:48 PM
To: Ali Trunzo
Subject: FW: Spire STL Pipeline-Consultation

From: Lori Ferry
Sent: Friday, October 14, 2016 2:45 PM
To: 'jennifer.campbell@mdc.mo.gov' <jennifer.campbell@mdc.mo.gov>
Subject: Spire STL Pipeline-Consultation

Hi Jennifer

As a follow-up to my voicemail, I wanted to reach out and see if there might be a good time that we can set up to discuss the Spire STL Pipeline Project.

We had originally been communicating with Audrey Beres who has since gone on maternity leave. I was informed that you had been appointed as her replacement on this Project going forward.

She had indicated that she had a letter to send to us per our original consultation request but this letter has not yet been received.






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Please let me know if you are the correct person to reach out to and if any project information has been forwarded your way. I'd be happy to send you any information you may need.

If there is a good time we can set up to go through the latest information we have on the Project and discuss any concerns from the Department that would great.

Thanks again and have a good weekend,
Lori Ferry

Lori Ferry
Environmental Manager-Energy Business Unit

GAI Consultants
Chicago Office | 1444 Farnsworth Avenue, Suite 303 Aurora, Illinois 60505
T 331.301.2002 M 630.605.5255 | gaiconsultants.com |     
l.ferry@gaiconsultants.com

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telephone log



gai consultants

Date: September 30, 2016

Project / Admin. No.: E160438.00

Call From: Erin Matthews

Company: GAI Consultants

Phone No.: 412-399-5251

Call To: Nate Muenks

Company: Missouri Department of Conservation

Phone No.: 573-751-4115 extension 3371

Subject: Noxious weeds

cc:

Summary of Discussion, Decisions, and Commitments:

I've asked MoDNR what they would like to see as far as BMPs for noxious weeds:

- a. minimize the time that bare soil is exposed and, therefore, minimize the opportunity for exotic species to become established
- b. identify dominant areas of noxious weeds prior to construction, and
- c. if noxious weeds are dominating the area, establish practical ways to rid equipment of the seeds before traveling to other locations (use an air hose, brush off the tracks, or wash stations if necessary)
- d. MoDNR mentioned that the DOT takes measures such as brushing off the lawn mower blades before mowing another site, to inhibit transferring the seeds to another property. He told me that the law isn't regulated as much as they would like to see it and he hasn't seen anyone fined for allowing the plants to mature, but it may be a good maintenance plan for Spire to implement.



August 12, 2016

Ms. Audrey Beres
Missouri Department of Conservation
2360 Hwy D
St. Charles City, Missouri 63304

**Re: Rare, Threatened, and Endangered Species Consultation
Spire STL Pipeline LLC
Spire STL Pipeline
St. Charles and St. Louis Counties, Missouri**

Dear Ms. Beres:

GAI Consultants, Inc. ("GAI") is submitting this information request on behalf of Spire STL Pipeline LLC ("Spire"), for the portion of the Spire STL Pipeline ("Project") in St. Charles and St. Louis Counties, Missouri. Representatives from Spire and GAI discussed this Project with you during a meeting jointly with the United States Army Corps of Engineers on June 27, 2016, which you attended by phone. GAI is submitting information to coordinate anticipated reviews for the proposed Project.

Project Description

Spire is in the planning stages of the Project. As proposed, the Project will serve the energy needs of residential, commercial and industrial customers in the eastern portion of Missouri, including the St. Louis metropolitan area and surrounding counties. The Project, as proposed, will consist of approximately 60 miles of new build 24-inch diameter steel pipeline (referred to as the "new build" portion of the Project) originating at an interconnection with Rockies Express Pipeline LLC ("REX") pipeline in Scott County, Illinois, extending down through Greene and Jersey Counties in Illinois before crossing the Mississippi River and extending east in St. Charles County, Missouri, until crossing the Missouri River and tying into an existing 20-inch diameter steel transmission pipeline in St. Louis County, Missouri, that is currently owned and operated by Laclede Gas Company ("LGC") (referred to as "Line 880"). Spire plans to purchase Line 880 from LGC and modify approximately nine miles of existing 20-inch diameter steel natural gas pipeline located in St. Louis County, Missouri, that will connect the new build part of the Project to the Enable Mississippi River Transmission, LLC ("MRT") pipeline along the western bank of the Mississippi River, in St. Louis County, Missouri. The total length of the entire Project will be approximately 70 miles and will include the construction of minor aboveground facilities. A pig launcher/receiver will also be installed at each portion of the Project. The overall design capacity of the new build portion of the pipeline is expected to be 400,000 Dth/d. No compression will be required.

Spire anticipates a typical 90-foot temporary construction right-of-way ("ROW") width, and a 50-foot permanent ROW. The construction ROW is anticipated to be reduced to 50 foot at streams and wetlands. An additional 25 feet of temporary work space will be required through agricultural areas, and additional temporary work space will be required to facilitate construction in certain areas, such as crossings of roads, railroads, streams, and wetlands.

Missouri

Approximately 13 miles of new build 24-inch diameter steel pipeline will be located in Missouri and traverse St. Charles and St. Louis Counties. Approximately nine miles of existing 20-inch diameter steel natural gas pipeline located in St. Louis County, Missouri, will be modified. One regulation station, one metering and regulating station, and one pigging facility are proposed in St. Louis County, Missouri.

The pipeline facilities are shown on the attached United States Geological Survey (USGS) Topographic Map (Figure 1). In addition, Spire has assumed the use/development of new and/or existing access roads throughout the Project area. Temporary extra work spaces will be utilized to accommodate equipment staging and stockpiling of materials along the proposed corridor during construction. The locations of these facilities are still pending.

Site Description

The Missouri portion of the Project is located in St. Charles and St. Louis Counties, Missouri, and is depicted on the attached portions of the Grafton (1979), Elsah (1979), Alton (1979), Florissant (1979), and Columbia Bottom (1979), Missouri, USGS 7.5-minute series topographic maps (Figure 1).

The majority of the pipeline is greenfield and crosses a primarily agricultural landscape. The existing pipeline to be modified is located primarily within existing right-of-way, which traverses residential, agricultural, and some wooded areas. The Project is located within the Marais Temps Clair-Mississippi River [USGS Hydrologic Unit Code (HUC) #071100090401], Outlet Missouri River (HUC #103002000804), Coldwater Creek (HUC #103002000803), and Maline Creek-Mississippi River (HUC #071401010401) watersheds.

The preliminary Natural Heritage Review Report provided by your office on July 6, 2016, identified several species and communities of concern that may be crossed, or are within close vicinity to the Project, as described below:

- rare, threatened, or endangered species habitat crossed at the Mississippi and Missouri Rivers, which may be home to species of state and federal concern including:
 - Pallid sturgeon, mussel species, and Interior least terns (federal listed);
 - Lake sturgeon, Flathead chubs, and mussel species (state listed);
 - Gray bats (federal and state listed), Indiana bats (federal and state listed), and bald eagles, which may utilize adjacent floodplain and upland habitat; and
 - Decurrent false aster (*Boltonia decurrens*).
- Sensitive areas crossed or within 0.5 miles of the Project including:
 - The Upper Mississippi Conservation area;
 - St. Louis County Spanish Lake;
 - Shrub swamp within Landgrant 1692 (state-ranked S2);
 - Wet mesic bottomland forest within Landgrant 3281 (state-ranked S2); and
 - Karst geologic features.

Spire has received your general recommendations for the Project and will take them into consideration throughout the Project planning. As suggested, GAI, on behalf of Spire, has begun coordinating with Gary Calvert of the Missouri Department of Conservation regarding the Upper Mississippi Conservation area. Coordination has also been initiated with the United States Fish and Wildlife Service regarding federally listed species and the Bald and Golden Eagle Protection Act.

GAI would appreciate information concerning suggested surveys based on the data from the Natural Heritage Program. In addition, GAI would appreciate the identification of state listed species or significant biological features within one-half-mile of the proposed Project centerline, as shown on Figure 1.

Please note the intent of this letter is solely for the purpose of formally initiating consultation and/or applicable Project reviews. An invitation for you to participate in the Federal Energy Regulatory Commission's National Environmental Policy Act Pre-Filing Process will be addressed to you under separate cover.

If you have any questions regarding this submission, please feel free to contact me at 234.203.0763, or by e-mail at J.Fuller@gaiconsultants.com.

Sincerely,

GAI Consultants, Inc.

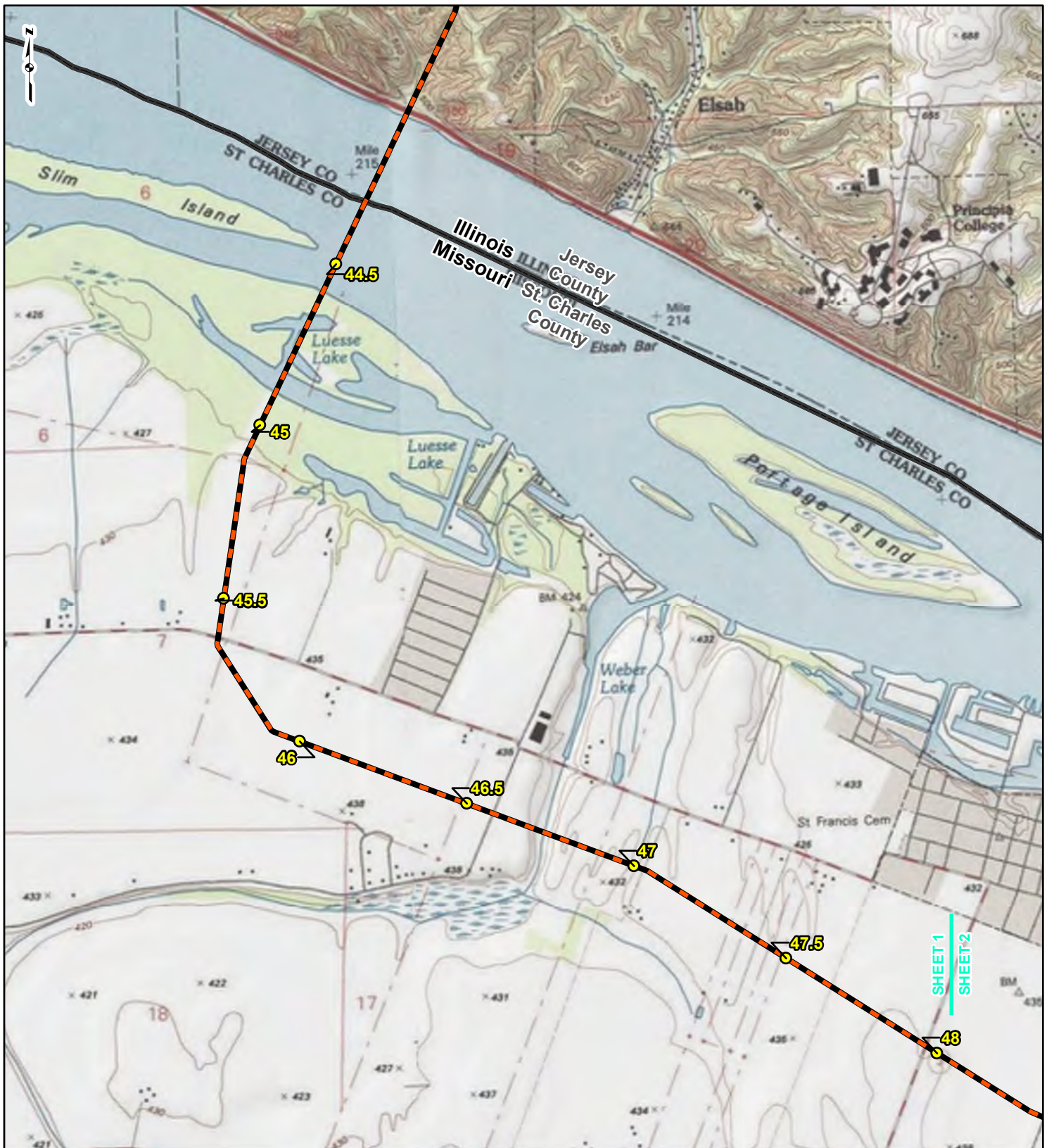
A handwritten signature in blue ink, appearing to read "Jayme L. Fuller".

Jayme L. Fuller
Environmental Manager

JLF/jbm

Attachments: USGS Topographic Map (Figure 1); Natural Heritage Review Report

ATTACHMENT 1
USGS TOPOGRAPHIC MAP (FIGURE 1)



LEGEND

- NEW BUILD MILEPOST
- LINE 880 MILEPOST
- NEW BUILD 24-INCH DIAMETER PIPELINE
- LINE 880 MODIFICATIONS
- COUNTY BOUNDARY
- STATE BOUNDARY

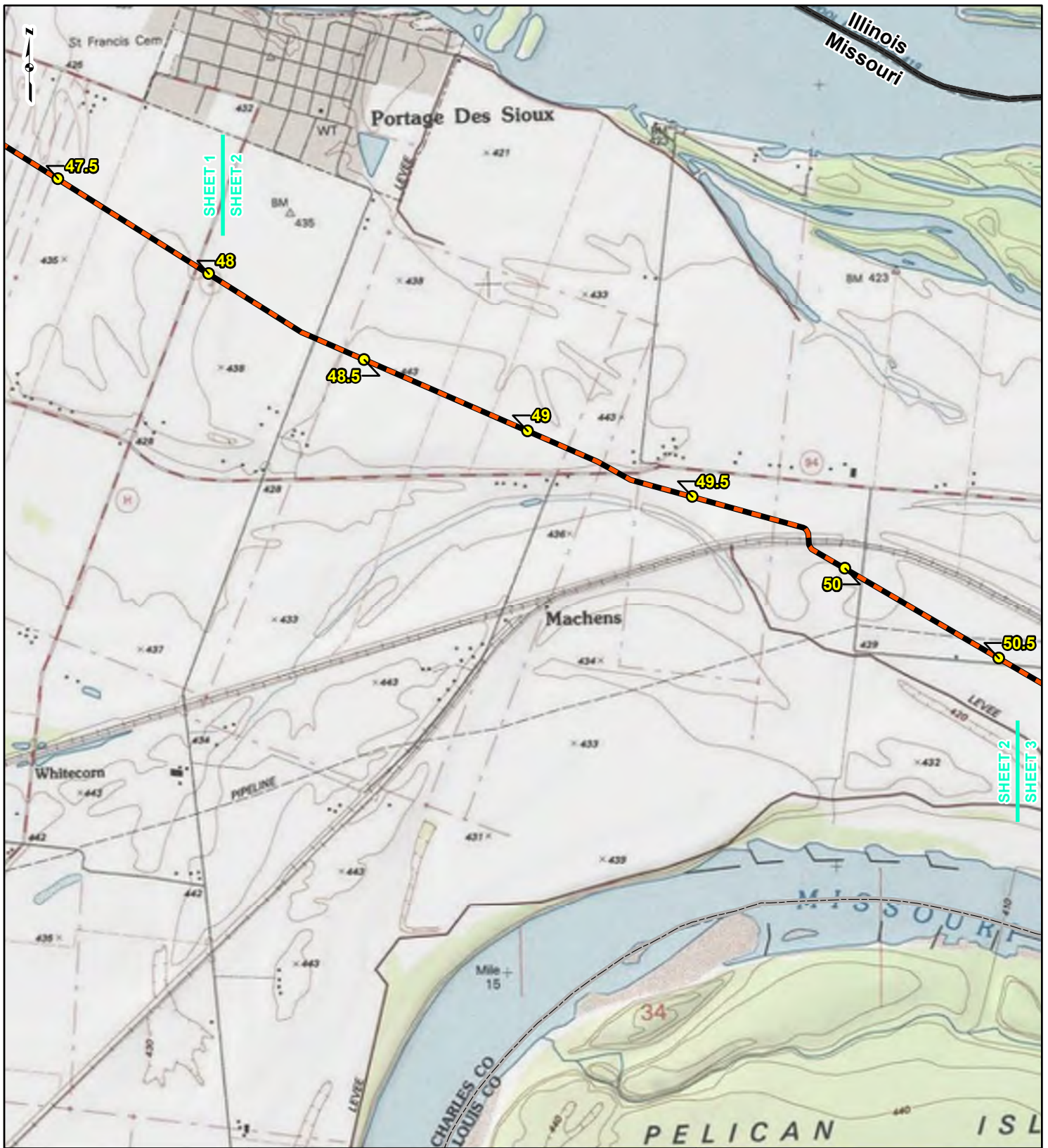
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**FIGURE 1
LOCATION MAP
SHEET 1 OF 6**

Spire STL Pipeline

DRAWN BY: PMH DATE: 8/12/2016
 CHECKED: SWW APPROVED: LMF

REFERENCE: USGS 7.5' TOPOGRAPHIC QUADRANGLES: ALTON (1979), COLUMBIA BOTTOM (1979), ELSAH (1979), FLORISSANT (1979) AND GRAFTON (1979), MISSOURI, OBTAINED THROUGH ESRI USA TOPO MAPS, NATIONAL GEOGRAPHIC TOPO AND I-CUBED, ACCESSED 08/2016.



LEGEND

NEW BUILD MILEPOST	LINE 880 MODIFICATIONS
LINE 880 MILEPOST	COUNTY BOUNDARY
NEW BUILD 24-INCH DIAMETER PIPELINE	STATE BOUNDARY

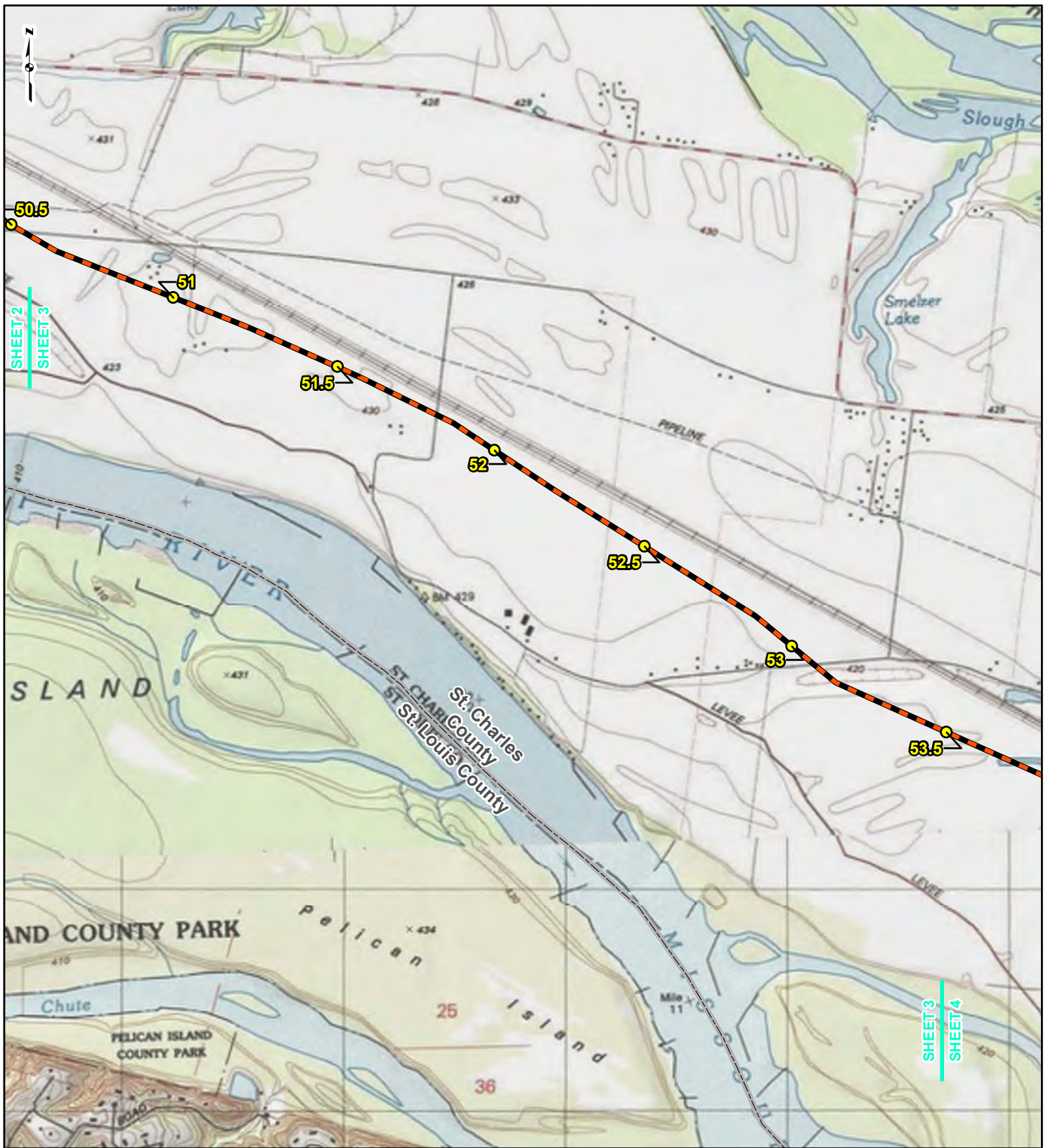
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Feet

**FIGURE 1
LOCATION MAP
SHEET 2 OF 6**

Spire STL Pipeline

DRAWN BY: PMH DATE: 8/12/2016
CHECKED: SWW APPROVED: LMF

REFERENCE: USGS 7.5' TOPOGRAPHIC QUADRANGLES: ALTON (1979), COLUMBIA BOTTOM (1979), ELSAH (1979), FLORISSANT (1979) AND GRAFTON (1979), MISSOURI, OBTAINED THROUGH ESRI USA TOPO MAPS, NATIONAL GEOGRAPHIC TOPO AND I-CUBED, ACCESSED 08/2016.



LEGEND

	NEW BUILD MILEPOST		LINE 880 MODIFICATIONS
	LINE 880 MILEPOST		COUNTY BOUNDARY
	NEW BUILD 24-INCH DIAMETER PIPELINE		STATE BOUNDARY

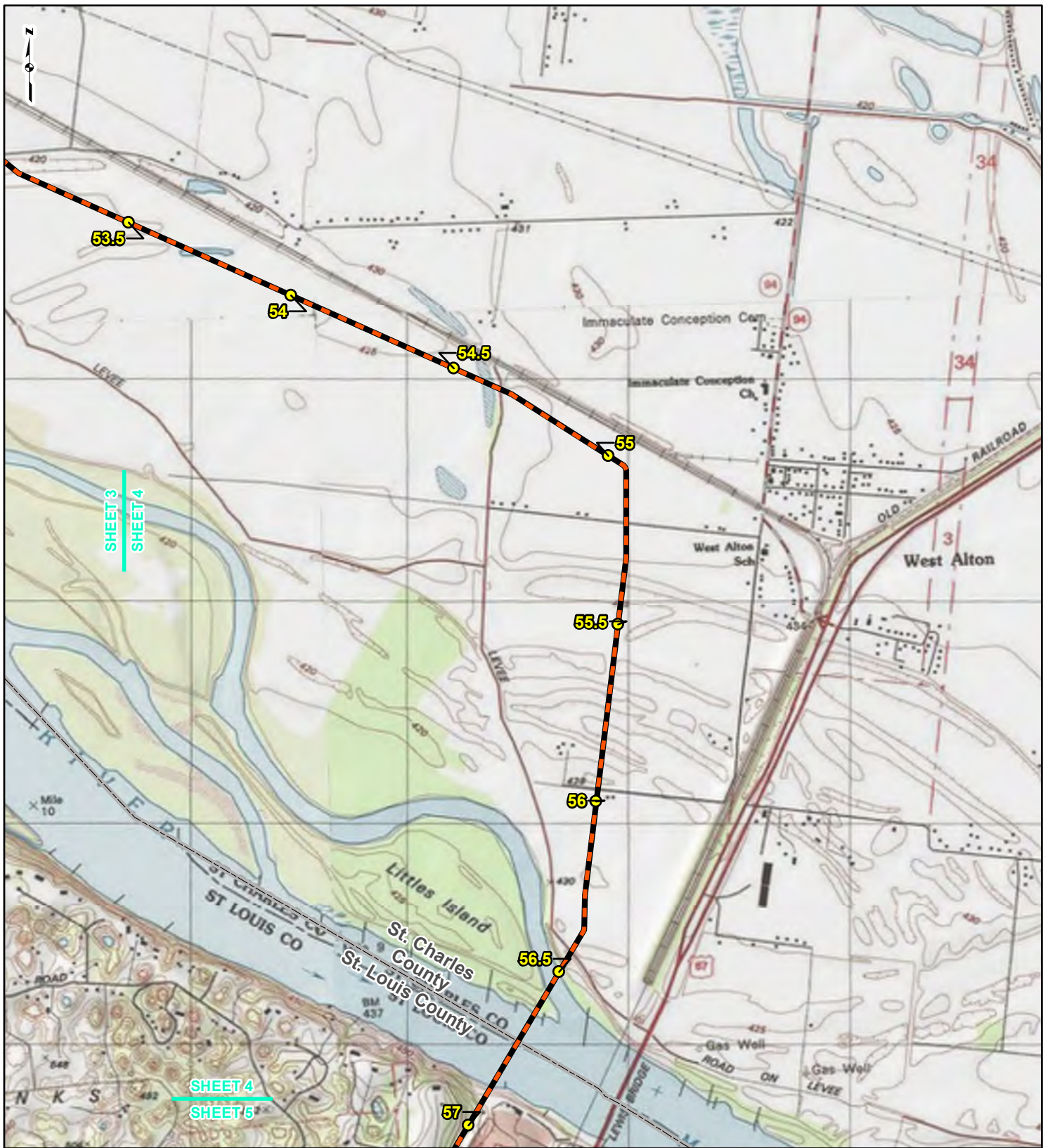
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**FIGURE 1
LOCATION MAP
SHEET 3 OF 6**

Spire STL Pipeline

DRAWN BY: PMH DATE: 8/12/2016
CHECKED: SWW APPROVED: LMF

REFERENCE: USGS 7.5' TOPOGRAPHIC QUADRANGLES: ALTON (1979), COLUMBIA BOTTOM (1979), ELSAH (1979), FLORISSANT (1979) AND GRAFTON (1979), MISSOURI, OBTAINED THROUGH ESRI USA TOPO MAPS, NATIONAL GEOGRAPHIC TOPO AND I-CUBED, ACCESSED 08/2016.



LEGEND

- NEW BUILD MILEPOST
- LINE 880 MILEPOST
- NEW BUILD 24-INCH DIAMETER PIPELINE
- LINE 880 MODIFICATIONS
- COUNTY BOUNDARY
- STATE BOUNDARY

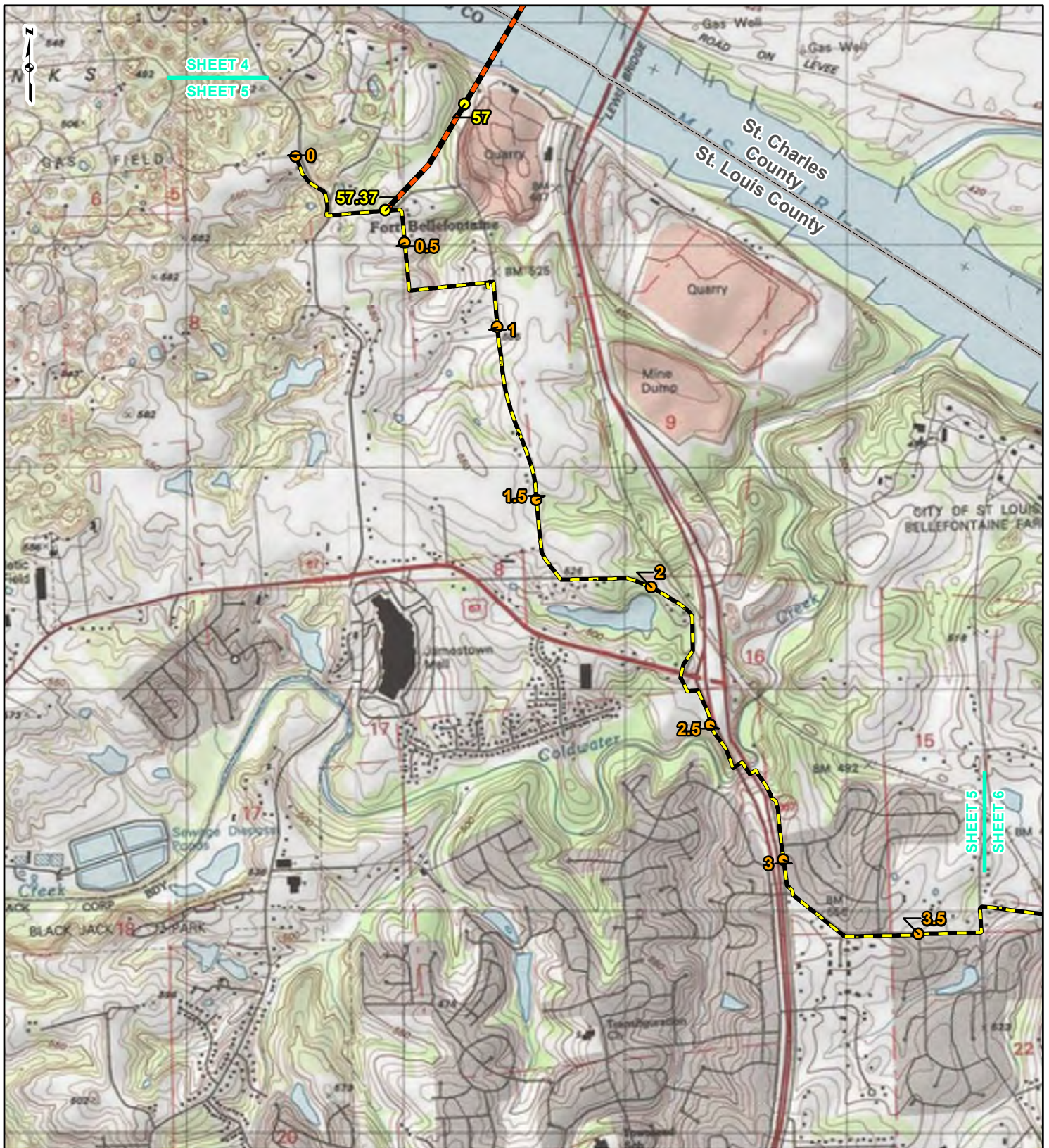
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**FIGURE 1
LOCATION MAP
SHEET 4 OF 6**

Spire STL Pipeline

DRAWN BY: PMH DATE: 8/12/2016
CHECKED: SWW APPROVED: LMF

REFERENCE: USGS 7.5' TOPOGRAPHIC QUADRANGLES: ALTON (1979), COLUMBIA BOTTOM (1979), ELSAH (1979), FLORISSANT (1979) AND GRAFTON (1979), MISSOURI, OBTAINED THROUGH ESRI USA TOPO MAPS, NATIONAL GEOGRAPHIC TOPO AND I-CUBED, ACCESSED 08/2016.



SHEET 4
SHEET 5

SHEET 5
SHEET 6



LEGEND

- NEW BUILD MILEPOST
- LINE 880 MILEPOST
- NEW BUILD 24-INCH DIAMETER PIPELINE
- LINE 880 MODIFICATIONS
- COUNTY BOUNDARY
- STATE BOUNDARY

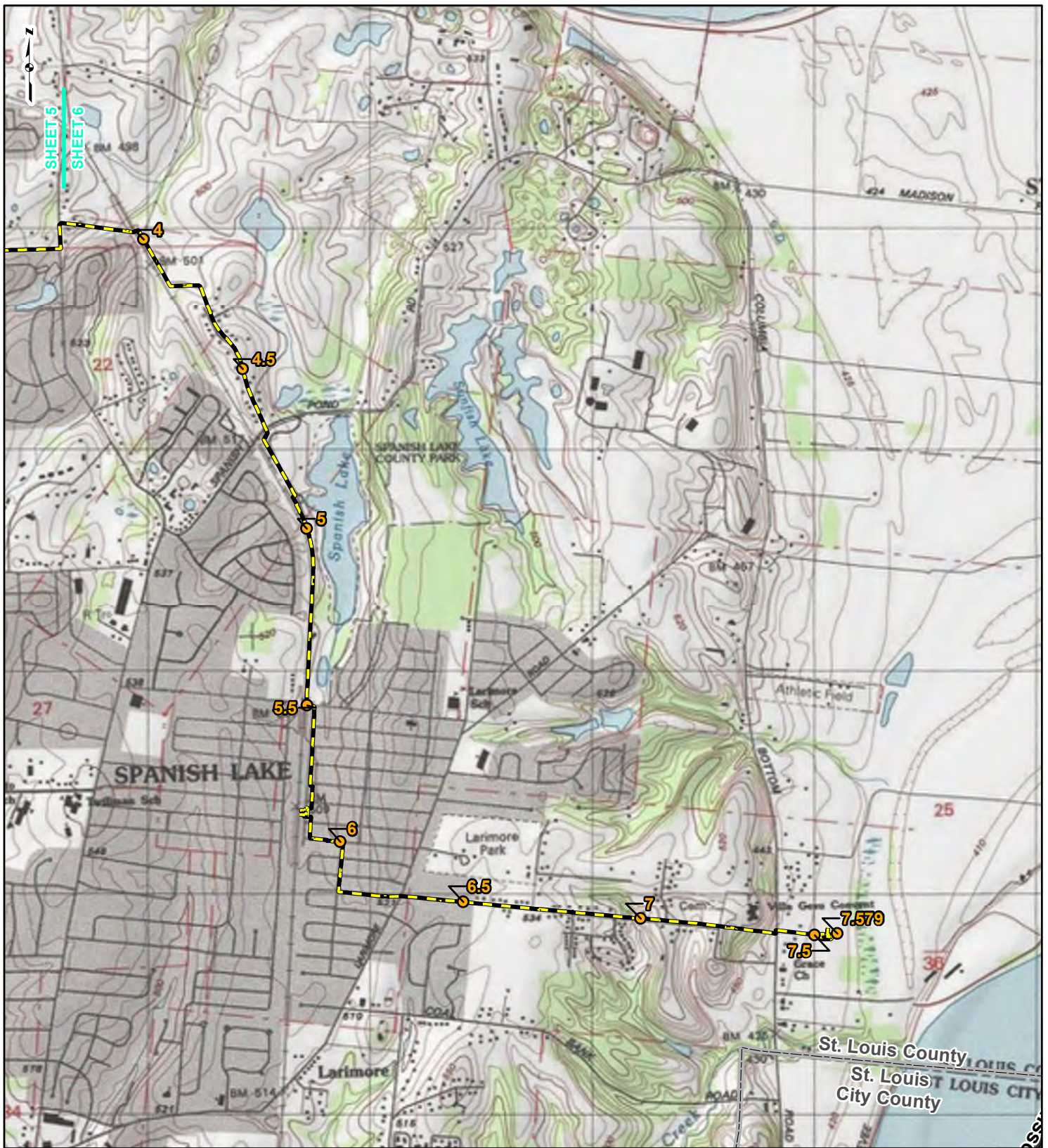
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**FIGURE 1
LOCATION MAP
SHEET 5 OF 6**

Spire STL Pipeline

DRAWN BY: PMH DATE: 8/12/2016
CHECKED: SWW APPROVED: LMF

REFERENCE: USGS 7.5' TOPOGRAPHIC QUADRANGLES: ALTON (1979), COLUMBIA BOTTOM (1979), ELSAH (1979), FLORISSANT (1979) AND GRAFTON (1979), MISSOURI, OBTAINED THROUGH ESRI USA TOPO MAPS, NATIONAL GEOGRAPHIC TOPO AND I-CUBED, ACCESSED 08/2016.



LEGEND

- NEW BUILD MILEPOST
- LINE 880 MILEPOST
- NEW BUILD 24-INCH DIAMETER PIPELINE
- LINE 880 MODIFICATIONS
- COUNTY BOUNDARY
- STATE BOUNDARY

0 1,000 2,000 4,000 Feet

**FIGURE 1
LOCATION MAP
SHEET 6 OF 6**

Spire STL Pipeline

DRAWN BY: PMH DATE: 8/12/2016
 CHECKED: SWW APPROVED: LMF

REFERENCE: USGS 7.5' TOPOGRAPHIC QUADRANGLES: ALTON (1979), COLUMBIA BOTTOM (1979), ELSAH (1979), FLORISSANT (1979) AND GRAFTON (1979), MISSOURI, OBTAINED THROUGH ESRI USA TOPO MAPS, NATIONAL GEOGRAPHIC TOPO AND I-CUBED, ACCESSED 08/2016.

August 12, 2016
Project E160438.00

ATTACHMENT 2
NATURAL HERITAGE REVIEW REPORT



Spire STL Pipeline LLC
700 Market Street
Saint Louis, MO 63101

August 5, 2016

Mr. Gary Calvert
Manager of Pools 24, 25 and 26 - Upper Mississippi Conservation Area Missouri Department of
Conservation
PO Box 201
Elsberry, MO 63343

Re: Spire STL Pipeline
FERC Docket No. PF16-9

Dear Mr. Calvert,

At Spire, formerly The Laclede Group, we never stop looking for better ways to provide energy now and for the future. That's why Spire STL Pipeline LLC, a wholly owned subsidiary of Spire Inc., is proposing to develop and construct a new interstate natural gas pipeline that will bring an efficient energy source to southwest Illinois and the St. Louis region. As a member of the community, we want you to be informed about our proposed project and we want you to hear from us first.

We are proposing to construct 60 miles of new build pipeline and upgrade nine miles of existing underground pipeline to further improve reliability and better serve homes and businesses across Illinois and Missouri. The planned route runs through Scott, Greene and Jersey counties in Illinois and St. Charles and St. Louis counties in Missouri.

You are receiving this letter because your property is located on or near our currently proposed route.

Spire STL Pipeline LLC has started the pre-filing application process for developing interstate natural gas pipelines by the Federal Energy Regulatory Commission ("FERC") pursuant to 18 C.F.R. § 157.21. FERC staff recently started a pre-filing environmental review process, which encourages early involvement by citizens, governmental entities and other interested parties. You can find more information about this pre-filing process at www.ferc.gov. You can see all the information about the Spire STL Pipeline using the docket number PF16-9.

Included with this letter, for your information, is a general overview map of the proposed pipeline route and a diagram illustrating the FERC process.

We believe that we can create a better project by hearing from you and listening to your feedback. That's why we are hosting open houses this month so you can learn more about the project and we can learn more about you.

At the open houses, more detailed maps will be available to show where the proposed pipeline may be located relative to your property. We want you to come, ask questions and provide feedback. Representatives of the Federal Energy Regulatory Commission (FERC) will also be there to answer questions about the FERC process for natural gas pipelines.

Spire STL Pipeline open house schedule

Tuesday August 16, 2016 5 p.m. – 7:30 p.m.	Wednesday August 17, 2016 5 p.m. – 7:30 p.m.	Thursday August 18, 2016 5 p.m.– 7:30 p.m.	Tuesday August 23, 2016 5 p.m.– 7:30 p.m.	Wednesday August 24, 2016 5 p.m. – 7:30 p.m.
Scott County, Illinois	Jersey County, Illinois	St. Louis County, Missouri	St. Charles County, Missouri	Greene County, Illinois
Scott County Fairgrounds 401 North Walnut Winchester, IL 62694	Jerseyville Recreation Center 401 Mound Street Jerseyville, IL 62052	Hazelwood Civic Center East 8969 Dunn Road Hazelwood, MO 63042	American Legion Post 312 2500 Raymond Drive St Charles, MO 63301	Knights of Columbus Hall U.S. HWY 67 Carrollton, IL 62016

Check out more information on our website at www.SpireSTLPipeline.com. If you have any questions, please do not hesitate to contact us toll-free at 1 844-885-7234 or at STLPipelineInfo@SpireEnergy.com.

We look forward to working with you.

Sincerely,

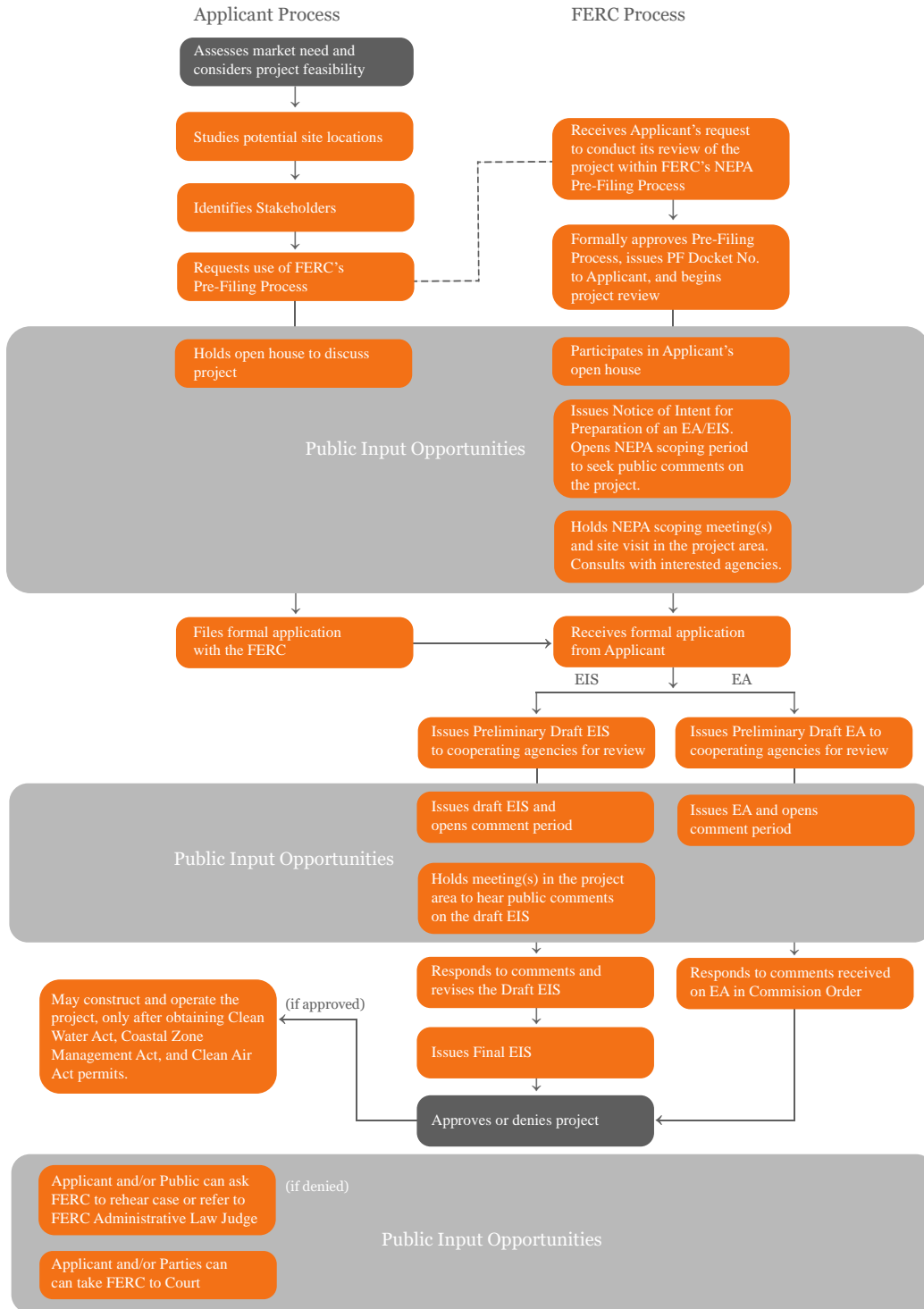


Scott Jaskowiak
Vice President
Spire STL Pipeline LLC

Project Map



FERC Pre-Filing Process





Spire STL Pipeline LLC
700 Market Street
Saint Louis, MO 63101

August 5, 2016

Mr. Raenhard Wesselschmidt
Wildlife Management Biologist Missouri Department of Conservation - Wildlife
2360 Hwy D
St. Charles, MO 63304

Re: Spire STL Pipeline
FERC Docket No. PF16-9

Dear Mr. Wesselschmidt,

At Spire, formerly The Laclede Group, we never stop looking for better ways to provide energy now and for the future. That's why Spire STL Pipeline LLC, a wholly owned subsidiary of Spire Inc., is proposing to develop and construct a new interstate natural gas pipeline that will bring an efficient energy source to southwest Illinois and the St. Louis region. As a member of the community, we want you to be informed about our proposed project and we want you to hear from us first.

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Check out more information on our website at www.SpireSTLPipeline.com. If you have any questions, please do not hesitate to contact us toll-free at 1 844-885-7234 or at STLPipelineInfo@SpireEnergy.com.

We look forward to working with you.

Sincerely,



Scott Jaskowiak
Vice President
Spire STL Pipeline LLC



July 29, 2016

Mr. Raenhard Wesselschmidt
Wildlife Management Biologist
Missouri Department of Conservation - Wildlife
2360 Highway D
St. Charles, MO 63304

**Re: Notice of Use of Pre-Filing Process
Spire STL Pipeline
Scott, Greene, and Jersey Counties, IL
St. Charles and St. Louis Counties, MO**

Dear Mr. Wesselschmidt:

Spire STL Pipeline LLC ("Spire") is in the planning stages of the Spire STL Pipeline ("Project"). As proposed, the Project will serve the energy needs of residential, commercial and industrial customers in the eastern portion of Missouri, including the St. Louis metropolitan area and surrounding counties. The Project as proposed will consist of approximately 60 miles of new build 24-inch diameter steel pipeline (referred to as the "new build" portion of the Project) originating at an interconnection with Rockies Express Pipeline LLC ("REX") pipeline in Scott County, Illinois, extending down through Greene and Jersey Counties in Illinois before crossing the Mississippi River and extending east in St. Charles County, Missouri until crossing the Missouri river and tying into an existing 20-inch diameter steel transmission pipeline in St. Louis County, Missouri that is currently owned and operated by Laclede Gas Company ("LGC") (referred to as "Line 880"). Spire plans to purchase Line 880 from LGC and modify approximately nine miles of existing 20-inch diameter steel natural gas pipeline located in St. Louis County, Missouri that will connect the new build part of the Project to the Enable Mississippi River Transmission, LLC ("MRT") pipeline along the western bank of the Mississippi river in St. Louis County, Missouri. The total length of the entire Project will be approximately 70 miles.

Construction and operation of the proposed Project will be regulated by the Federal Energy Regulatory Commission ("Commission") among other regulatory agencies. Spire intends to utilize the Commission's pre-filing process detailed in Section 157.21 of the Commission's regulations, which allows the Commission and other agencies to initiate National Environmental Policy Act ("NEPA") review prior to Spire filing an application to the Commission. The Commission would need to issue Spire a Certificate of Public Convenience and Necessity to enable construction and operation of the proposed pipeline. The preliminary Project schedule includes the following target dates:

- July 22, 2016 - Commission acceptance into pre-filing; commencement of the NEPA process (pre-filing docket no. PF16-9-000);
- August 2016 (Anticipated) - biological and cultural resource surveys;
- January 2017 (Anticipated) - file final application with Commission;
- August 2017 (Anticipated) - NEPA document published;
- November 2017 (Anticipated) - Commission decision on application; and
- February 2018 (Anticipated) - commence construction activities.

On behalf of Spire, GAI would like to take this opportunity to invite the Missouri Department of Conservation - Wildlife to participate in the review of this Project as a cooperating agency during the Commission's pre-filing process. We look forward to your involvement in the review of this important Project and appreciate your cooperation.

Please note the intent of this letter is solely for the purpose of inviting you to participate in the Commission's NEPA pre-filing process. The Commission will also reach out to you requesting your agency to be a cooperating agency. Specific and necessary consultations and/or applicable permit applications will be addressed to you under separate cover.

If you have any questions or would like additional information, please feel free to contact me at 331.301.2002 or by e-mail at L.Ferry@gaiconsultants.com.

Sincerely,

GAI Consultants, Inc.

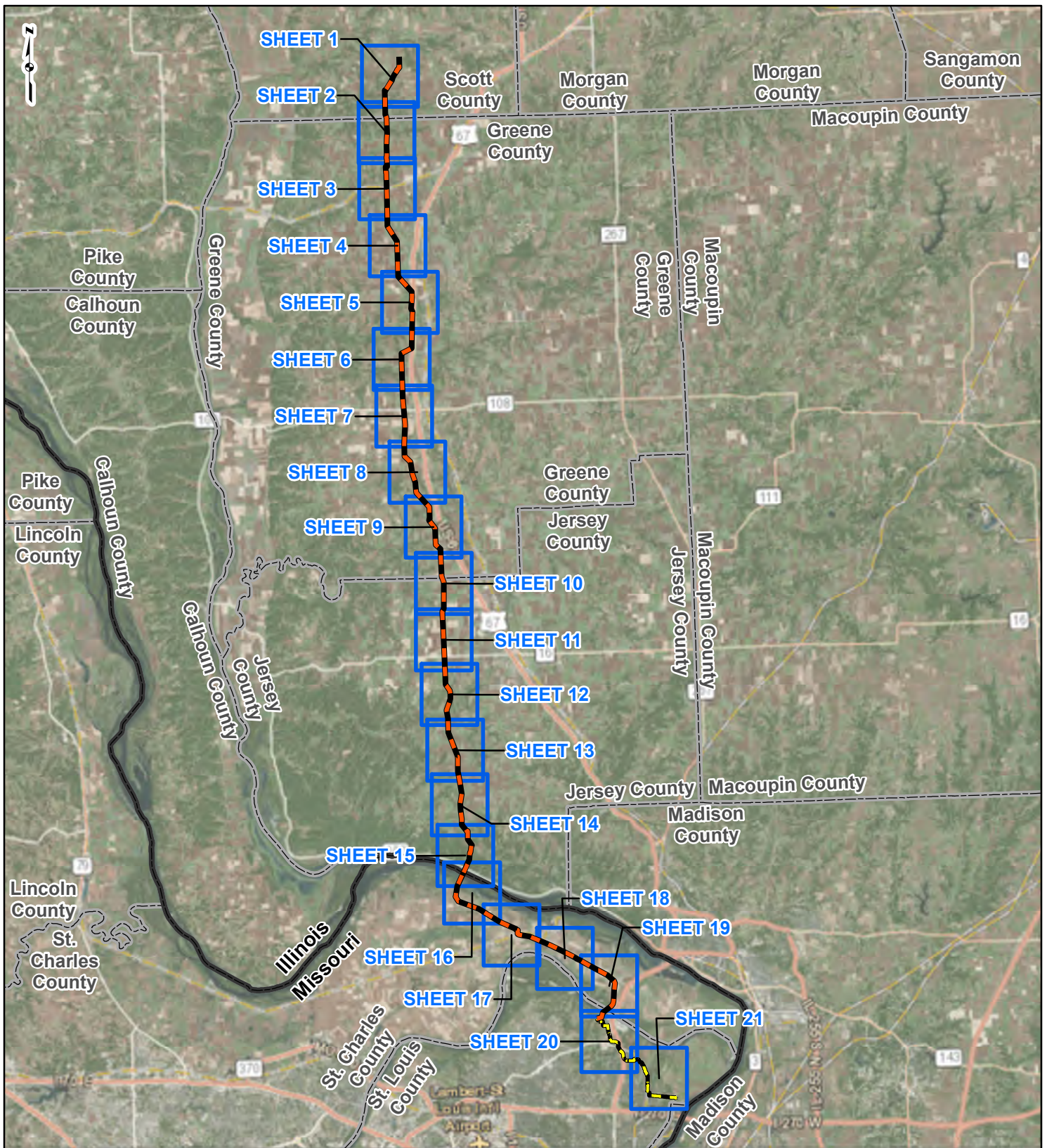
A handwritten signature in black ink that reads "Lori M. Ferry". The signature is written in a cursive, flowing style.

Lori M. Ferry
Environmental Project Manager

LMF/gmg

Attachment: United States Geological Survey (USGS) Topographic Map (Figure 1)

ATTACHMENT
USGS TOPOGRAPHIC MAP (FIGURE 1)



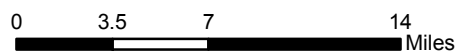
PROJECT LOCATION



SCOTT, GREENE
AND JERSEY
COUNTIES, ILLINOIS
AND ST. CHARLES AND
ST. LOUIS COUNTIES, MISSOURI

LEGEND

- NEW BUILD 24-INCH DIAMETER PIPELINE
- LINE 880 MODIFICATIONS
- COUNTY BOUNDARY
- STATE BOUNDARY
- SHEET INDEX



**FIGURE 1
LOCATION MAP
SHEET INDEX**



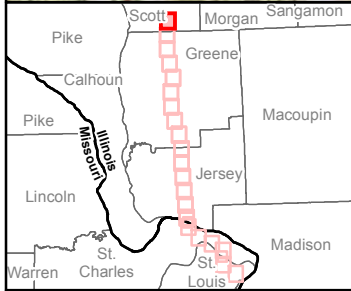
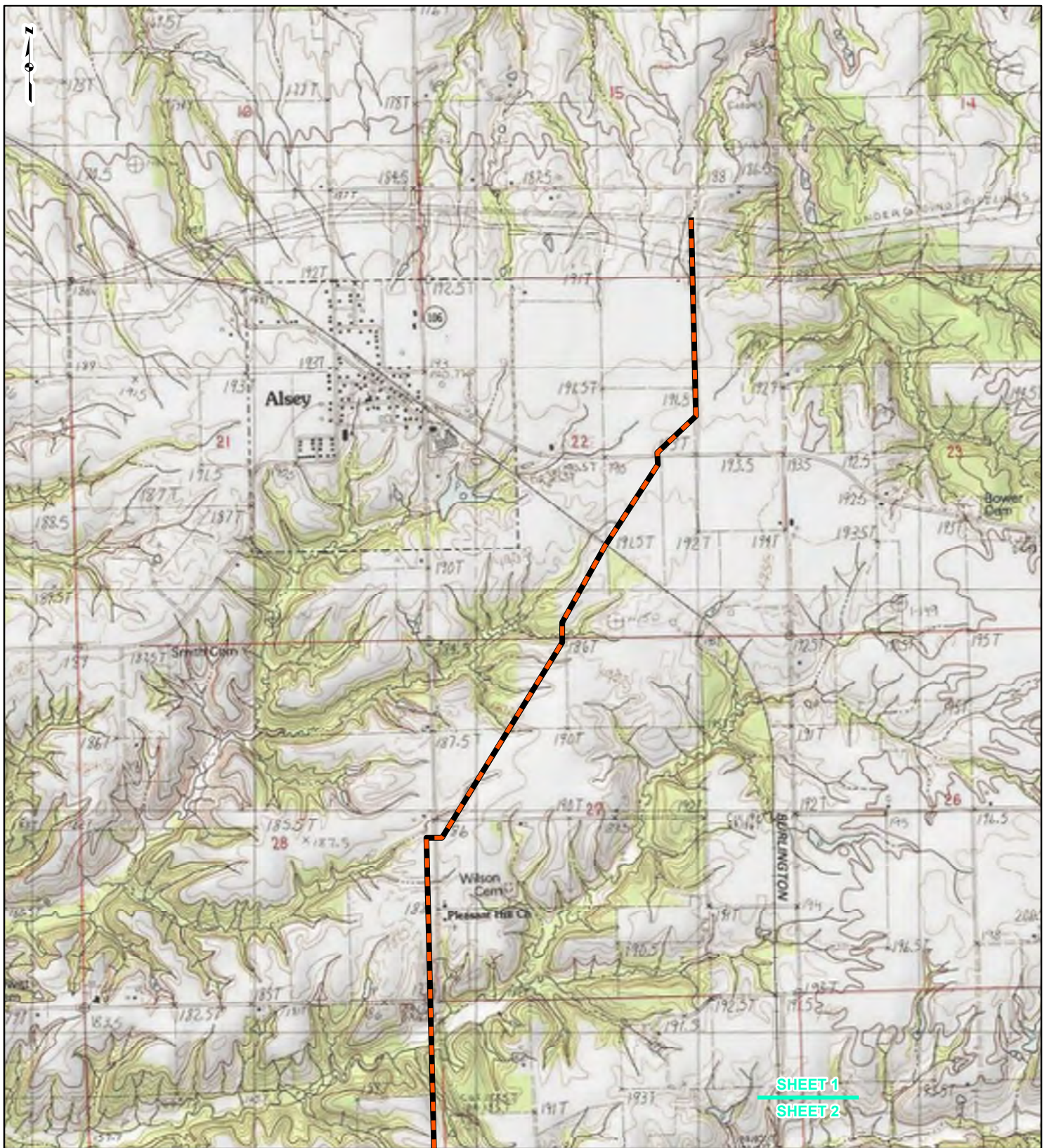
**Spire STL
Pipeline**



DRAWN BY: PMH
CHECKED: SWW

DATE: 7/28/2016
APPROVED: LMF

REFERENCE: ESRI WORLD IMAGERY AND TRANSPORTATION, NAIP, USDA FSA, 2015, ACCESSED 07/2016.



LEGEND

- NEW BUILD 24-INCH DIAMETER PIPELINE
- LINE 880 MODIFICATIONS
- STATE BOUNDARY
- COUNTY BOUNDARY

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Feet

FIGURE 1
LOCATION MAP
SHEET 1 OF 21

Spire STL Pipeline

DRAWN BY: PMH DATE: 7/28/2016
CHECKED: SWW APPROVED: LMF

REFERENCE: USGS 7.5' TOPOGRAPHIC QUADRANGLES: ALSEY (1983), ALTON (1994), BOYER CREEK (1983), CARROLLTON (1983), COLUMBIA BOTTOM (1999), ELSAH (1995), FLORISSANT (1999), GRAFTON (1995), JERSEYVILLE NORTH (1983), JERSEYVILLE SOUTH (1983), OTTERTVILLE (1983) AND ROODHOUSE WEST (1983), ILLINOIS AND MISSOURI, OBTAINED THROUGH ESRI USA TOPO MAPS, NATIONAL GEOGRAPHIC TOPO AND I-CUBED, ACCESSED 07/20/16.





SHEET 1
SHEET 2



SHEET 2
SHEET 3



LEGEND

-  NEW BUILD 24-INCH DIAMETER PIPELINE
-  LINE 880 MODIFICATIONS
-  STATE BOUNDARY
-  COUNTY BOUNDARY

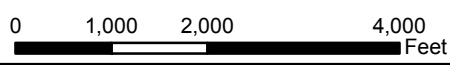


FIGURE 1 LOCATION MAP SHEET 2 OF 21



DRAWN BY: PMH DATE: 7/28/2016
 CHECKED: SWW APPROVED: LMF

REFERENCE: USGS 7.5' TOPOGRAPHIC QUADRANGLES: ALSEY (1983), ALTON (1994), BOYER CREEK (1983), CARROLLTON (1983), COLUMBIA BOTTOM (1999), ELSAH (1995), FLORISSANT (1999), GRAFTON (1995), JERSEYVILLE NORTH (1983), JERSEYVILLE SOUTH (1983), OTTERTVILLE (1983) AND ROODHOUSE WEST (1983), ILLINOIS AND MISSOURI, OBTAINED THROUGH ESRI USA TOPO MAPS, NATIONAL GEOGRAPHIC TOPO AND I-CUBED, ACCESSED 07/2016.



SHEET 2





SHEET 3

SHEET 3

SHEET 4



LEGEND

-  NEW BUILD 24-INCH DIAMETER PIPELINE
-  LINE 880 MODIFICATIONS
-  STATE BOUNDARY
-  COUNTY BOUNDARY

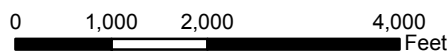
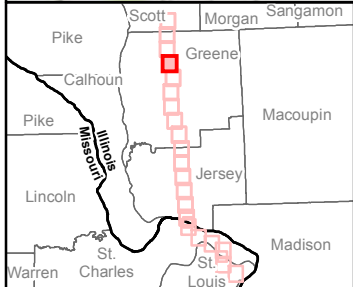
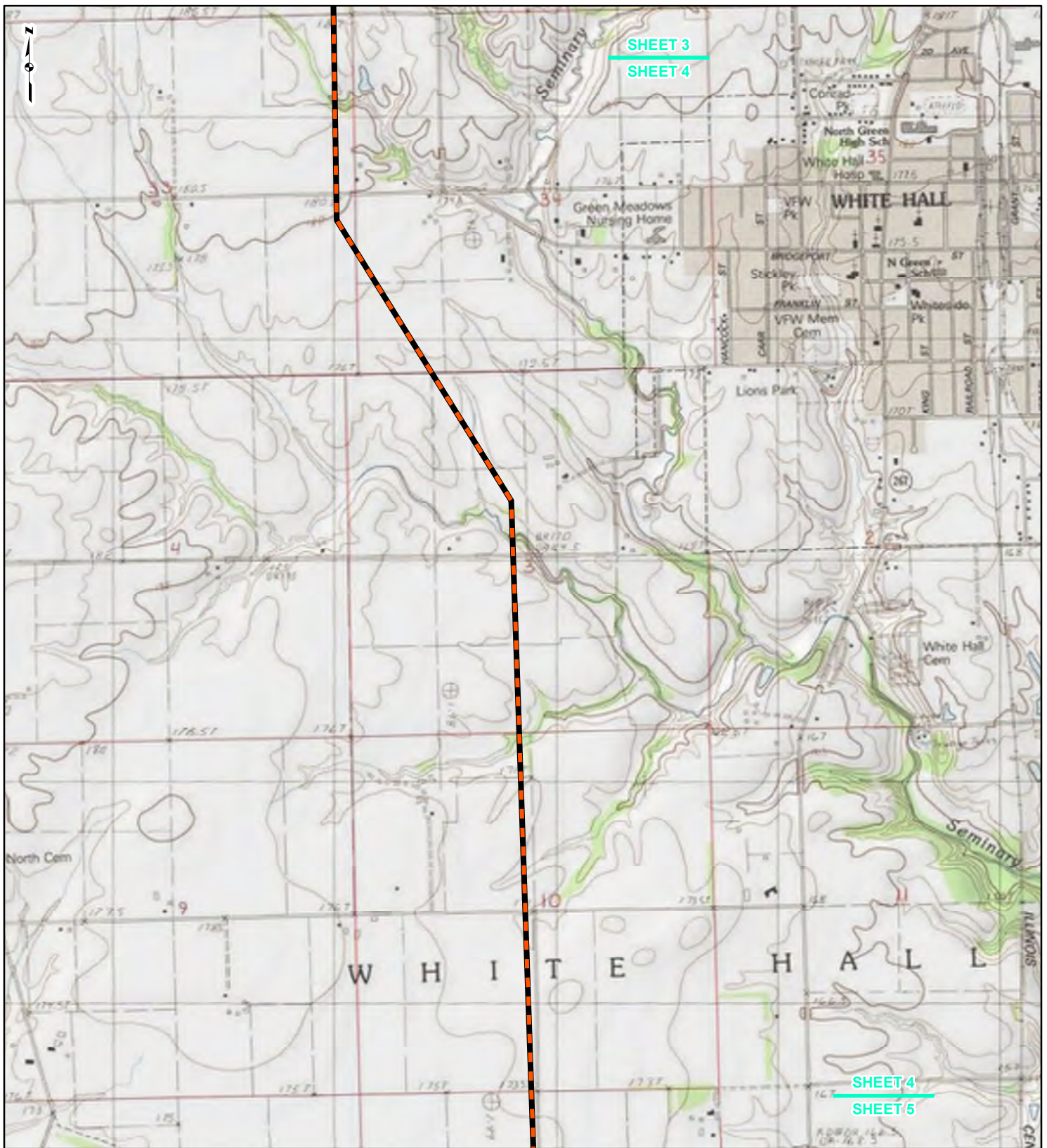


FIGURE 1
LOCATION MAP
SHEET 3 OF 21



DRAWN BY: PMH DATE: 7/28/2016
CHECKED: SWW APPROVED: LMF

REFERENCE: USGS 7.5' TOPOGRAPHIC QUADRANGLES: ALSEY (1983), ALTON (1994), BOYER CREEK (1983), CARROLLTON (1983), COLUMBIA BOTTOM (1999), ELSAH (1995), FLORISSANT (1999), GRAFTON (1995), JERSEYVILLE NORTH (1983), JERSEYVILLE SOUTH (1983), OTTERTVILLE (1983) AND ROODHOUSE WEST (1983), ILLINOIS AND MISSOURI, OBTAINED THROUGH ESRI USA TOPO MAPS, NATIONAL GEOGRAPHIC TOPO AND I-CUBED, ACCESSED 07/2016.



LEGEND

- NEW BUILD 24-INCH DIAMETER PIPELINE
- LINE 880 MODIFICATIONS
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- COUNTY BOUNDARY

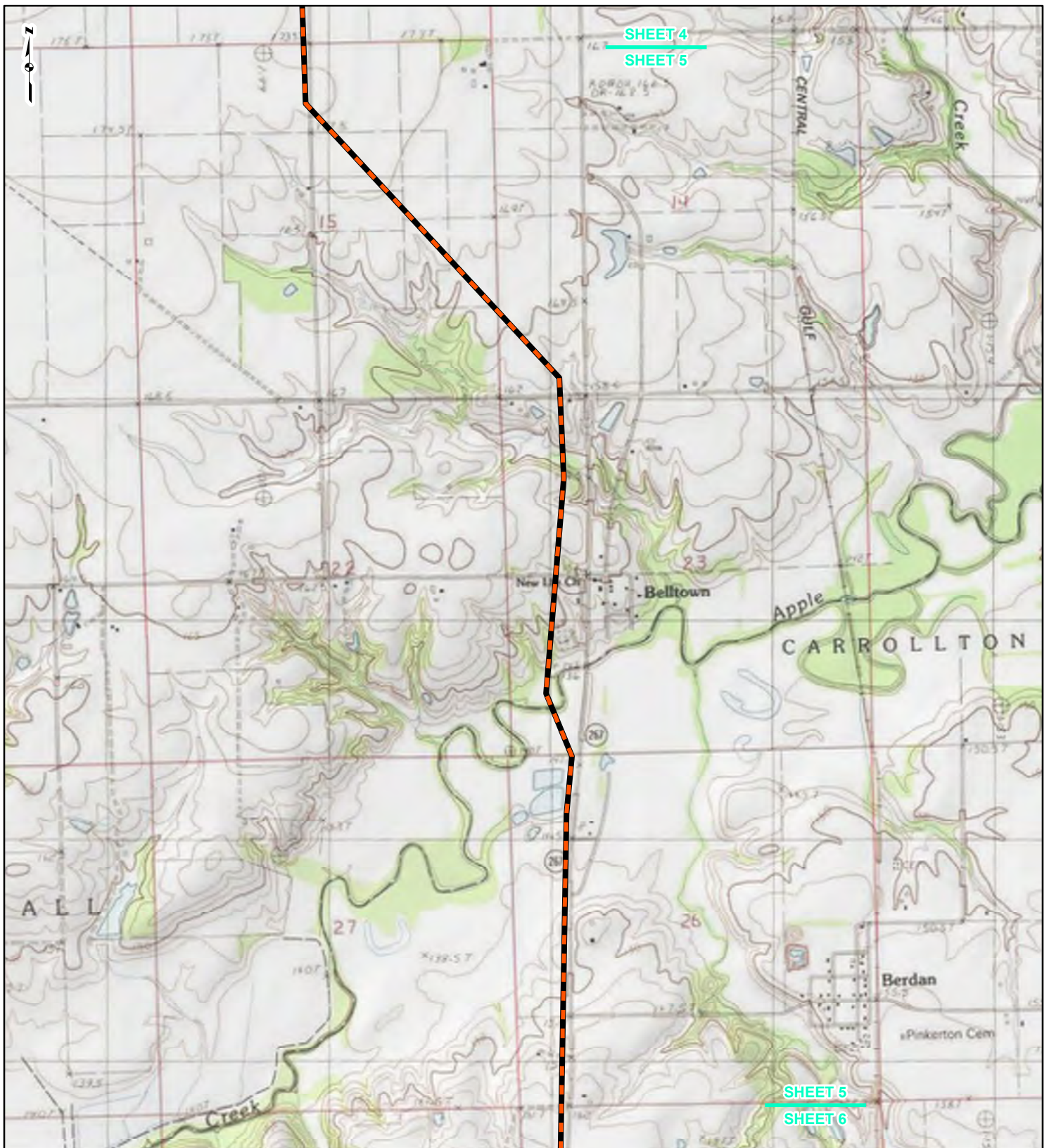
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FIGURE 1
LOCATION MAP
SHEET 4 OF 21



DRAWN BY: PMH DATE: 7/28/2016
CHECKED: SWW APPROVED: LMF

REFERENCE: USGS 7.5' TOPOGRAPHIC QUADRANGLES: ALSEY (1983), ALTON (1994), BOYER CREEK (1983), CARROLLTON (1983), COLUMBIA BOTTOM (1999), ELSAH (1995), FLORISSANT (1999), GRAFTON (1995), JERSEYVILLE NORTH (1983), JERSEYVILLE SOUTH (1983), OTTERVILLE (1983) AND ROODHOUSE WEST (1983), ILLINOIS AND MISSOURI, OBTAINED THROUGH ESRI USA TOPO MAPS, NATIONAL GEOGRAPHIC TOPO AND I-CUBED, ACCESSED 07/2016.



LEGEND

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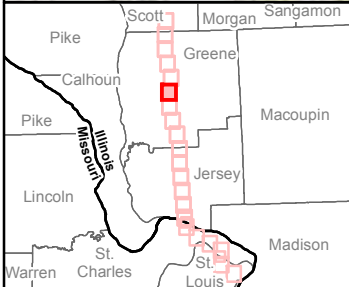
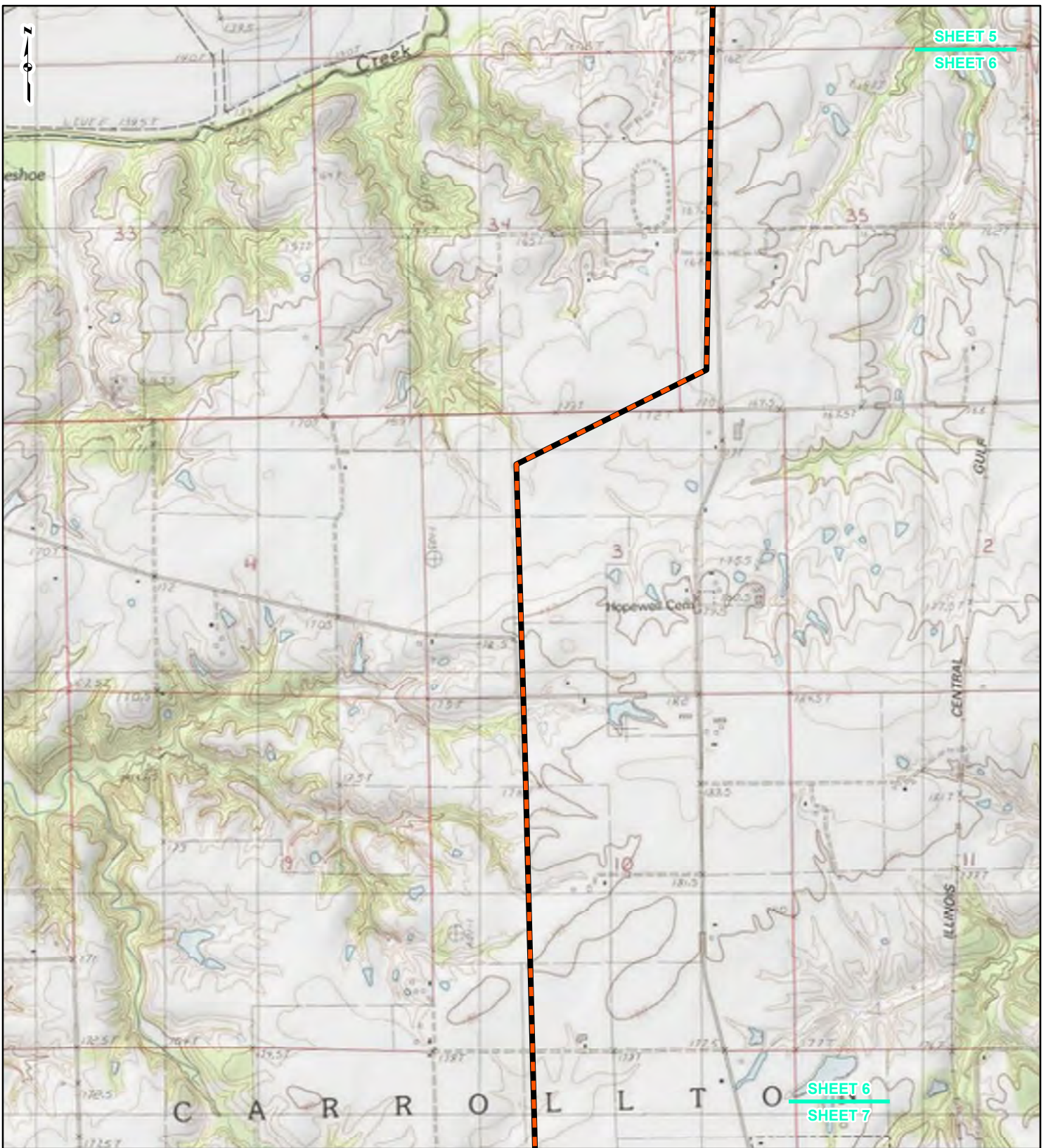
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FIGURE 1
LOCATION MAP
SHEET 5 OF 21







DRAWN BY: PMH DATE: 7/28/2016
CHECKED: SWW APPROVED: LMF

REFERENCE: USGS 7.5' TOPOGRAPHIC QUADRANGLES: ALSEY (1983), ALTON (1994), BOYER CREEK (1983), CARROLLTON (1983), COLUMBIA BOTTOM (1999), ELSAH (1995), FLORISSANT (1999), GRAFTON (1995), JERSEYVILLE NORTH (1983), JERSEYVILLE SOUTH (1983), OTTERTVILLE (1983) AND ROODHOUSE WEST (1983), ILLINOIS AND MISSOURI, OBTAINED THROUGH ESRI USA TOPO MAPS, NATIONAL GEOGRAPHIC TOPO AND I-CUBED, ACCESSED 07/2016.



LEGEND

-  NEW BUILD 24-INCH DIAMETER PIPELINE
-  LINE 880 MODIFICATIONS
-  STATE BOUNDARY
-  COUNTY BOUNDARY

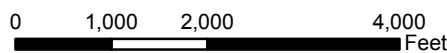
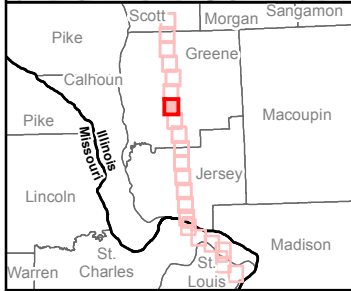
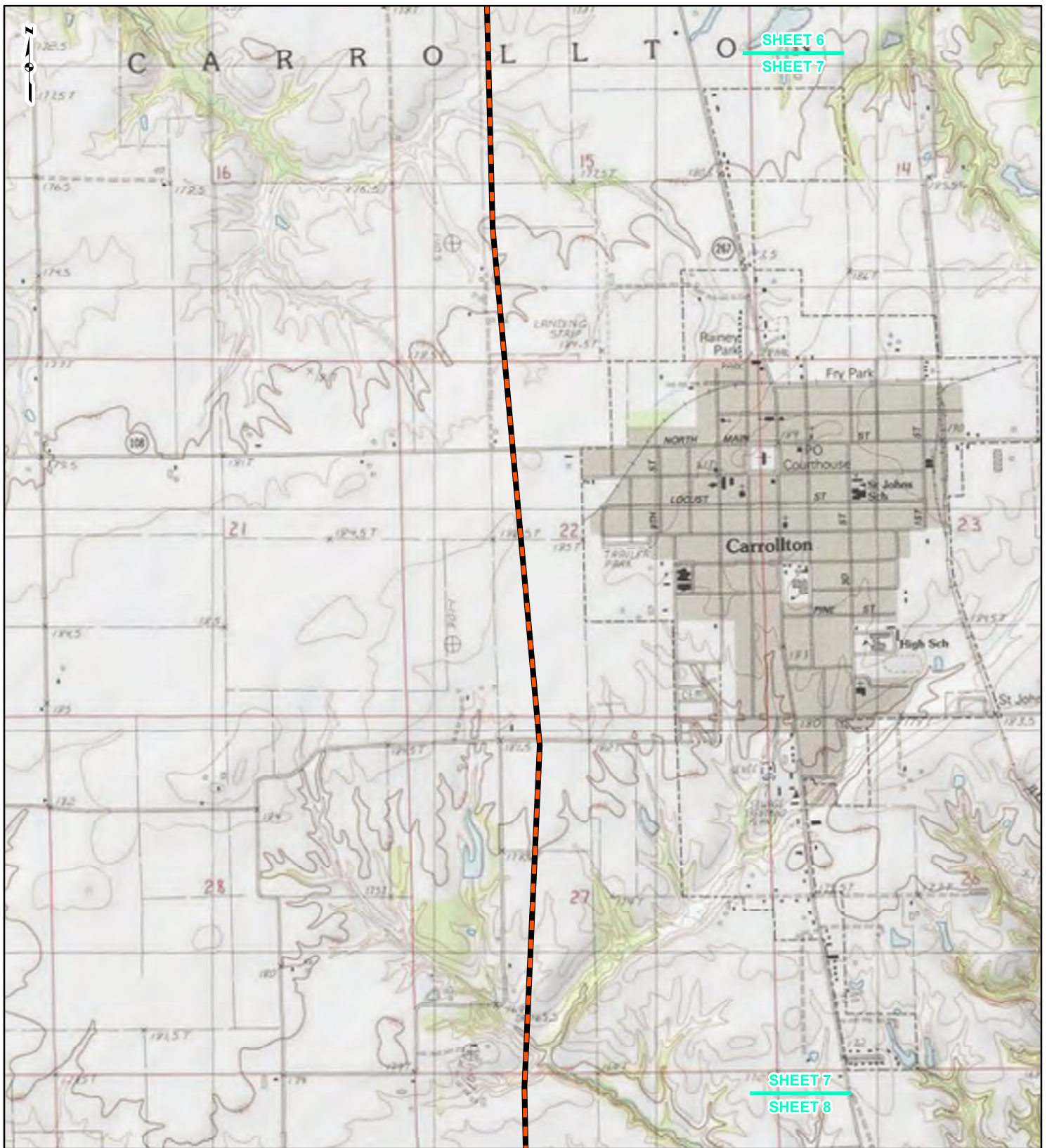


FIGURE 1
LOCATION MAP
SHEET 6 OF 21



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REFERENCE: USGS 7.5' TOPOGRAPHIC QUADRANGLES: ALSEY (1983), ALTON (1994), BOYER CREEK (1983), CARROLLTON (1983), COLUMBIA BOTTOM (1999), ELSAH (1995), FLOISSANT (1999), GRAFTON (1995), JERSEYVILLE NORTH (1983), JERSEYVILLE SOUTH (1983), OTTERTVILLE (1983) AND ROODHOUSE WEST (1983), ILLINOIS AND MISSOURI, OBTAINED THROUGH ESRI USA TOPO MAPS, NATIONAL GEOGRAPHIC TOPO AND I-CUBED, ACCESSED 07/2016.



LEGEND

- NEW BUILD 24-INCH DIAMETER PIPELINE
- LINE 880 MODIFICATIONS
- STATE BOUNDARY
- COUNTY BOUNDARY

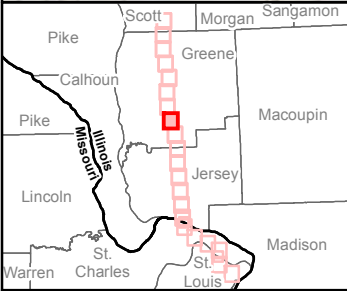
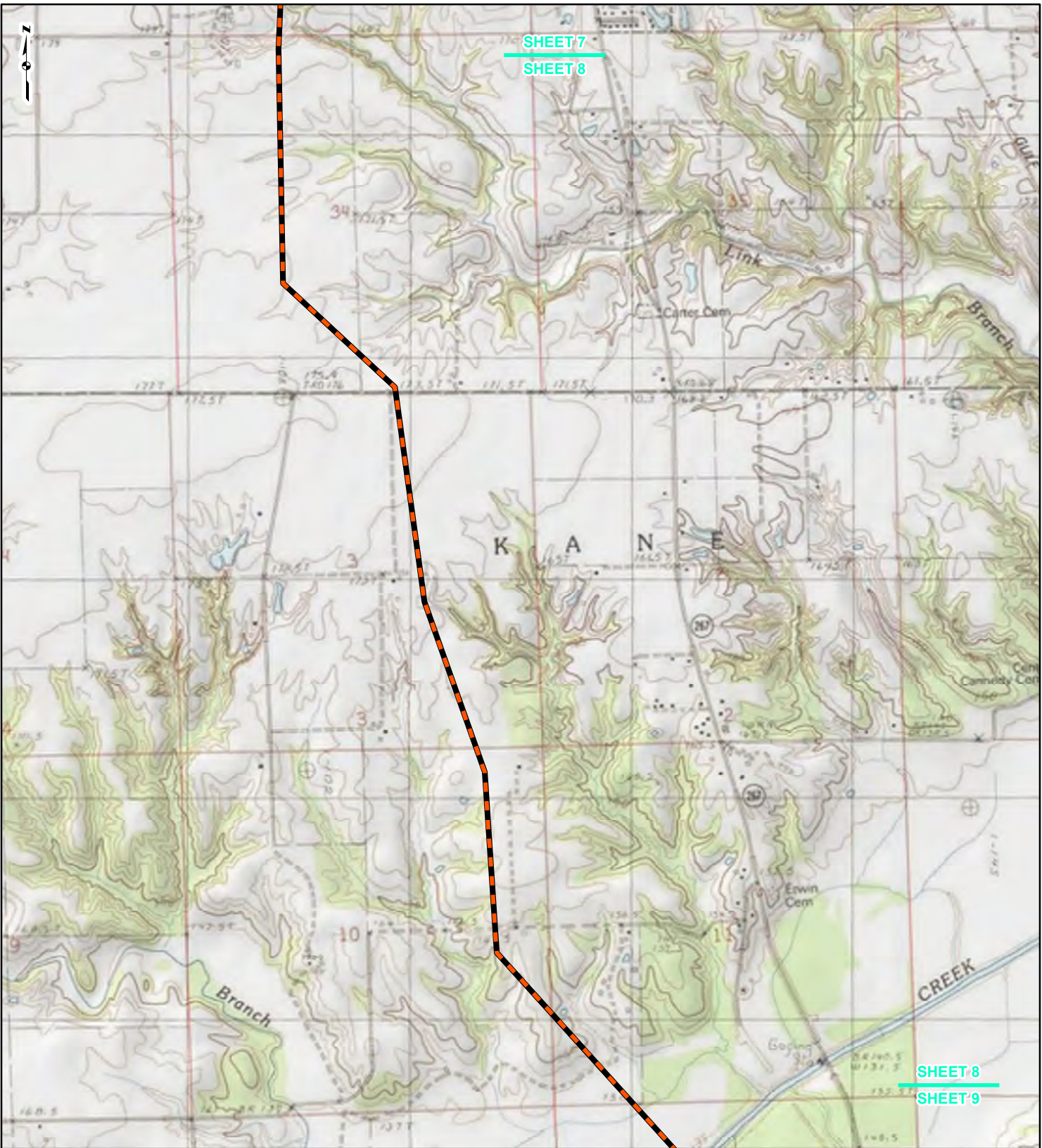
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Feet

FIGURE 1
LOCATION MAP
SHEET 7 OF 21

Spire STL Pipeline

DRAWN BY: PMH DATE: 7/28/2016
CHECKED: SWW APPROVED: LMF

REFERENCE: USGS 7.5' TOPOGRAPHIC QUADRANGLES: ALSEY (1983), ALTON (1994), BOYER CREEK (1983), CARROLLTON (1983), COLUMBIA BOTTOM (1999), ELSAH (1995), FLORISSANT (1999), GRAFTON (1995), JERSEYVILLE NORTH (1983), JERSEYVILLE SOUTH (1983), OTTERTVILLE (1983) AND ROODHOUSE WEST (1983), ILLINOIS AND MISSOURI, OBTAINED THROUGH ESRI USA TOPO MAPS, NATIONAL GEOGRAPHIC TOPO AND I-CUBED, ACCESSED 07/20/16.



LEGEND

- NEW BUILD 24-INCH DIAMETER PIPELINE
- LINE 880 MODIFICATIONS
- STATE BOUNDARY
- COUNTY BOUNDARY

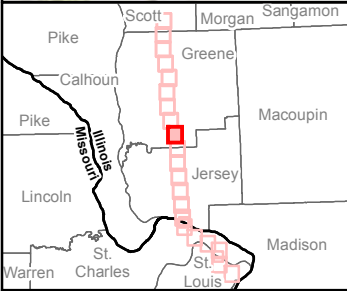
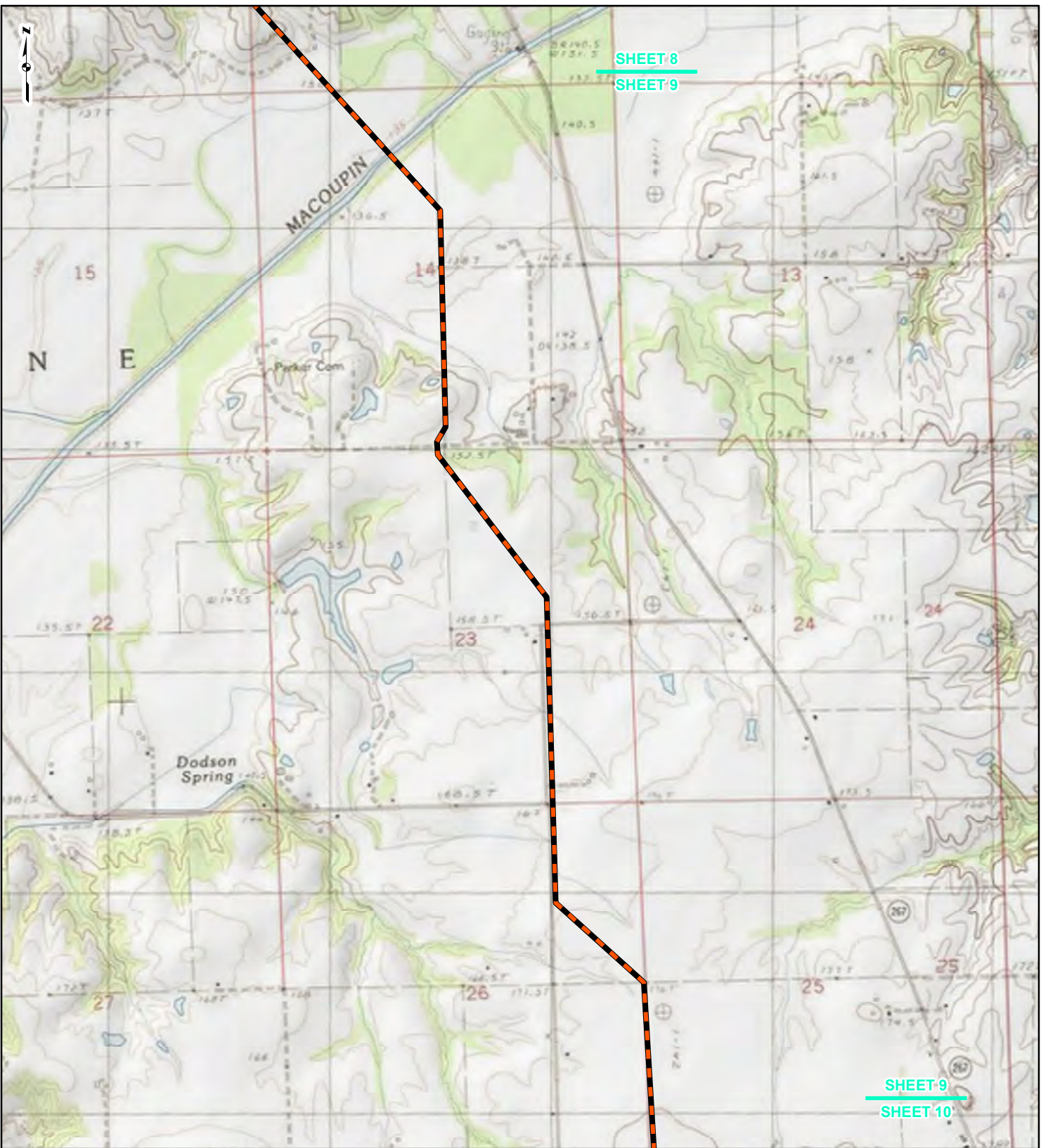
0 1,000 2,000 4,000
Feet

FIGURE 1
LOCATION MAP
SHEET 8 OF 21



DRAWN BY: PMH DATE: 7/28/2016
CHECKED: SWW APPROVED: LMF

REFERENCE: USGS 7.5' TOPOGRAPHIC QUADRANGLES: ALSEY (1983), ALTON (1994), BOYER CREEK (1983), CARROLLTON (1983), COLUMBIA BOTTOM (1999), ELSAH (1995), FLORISSANT (1999), GRAFTON (1995), JERSEYVILLE NORTH (1983), JERSEYVILLE SOUTH (1983), OTTERVILLE (1983) AND ROODHOUSE WEST (1983), ILLINOIS AND MISSOURI, OBTAINED THROUGH ESRI USA TOPO MAPS, NATIONAL GEOGRAPHIC TOPO AND I-CUBED, ACCESSED 07/2016.



LEGEND

- NEW BUILD 24-INCH DIAMETER PIPELINE
- LINE 880 MODIFICATIONS
- STATE BOUNDARY
- COUNTY BOUNDARY

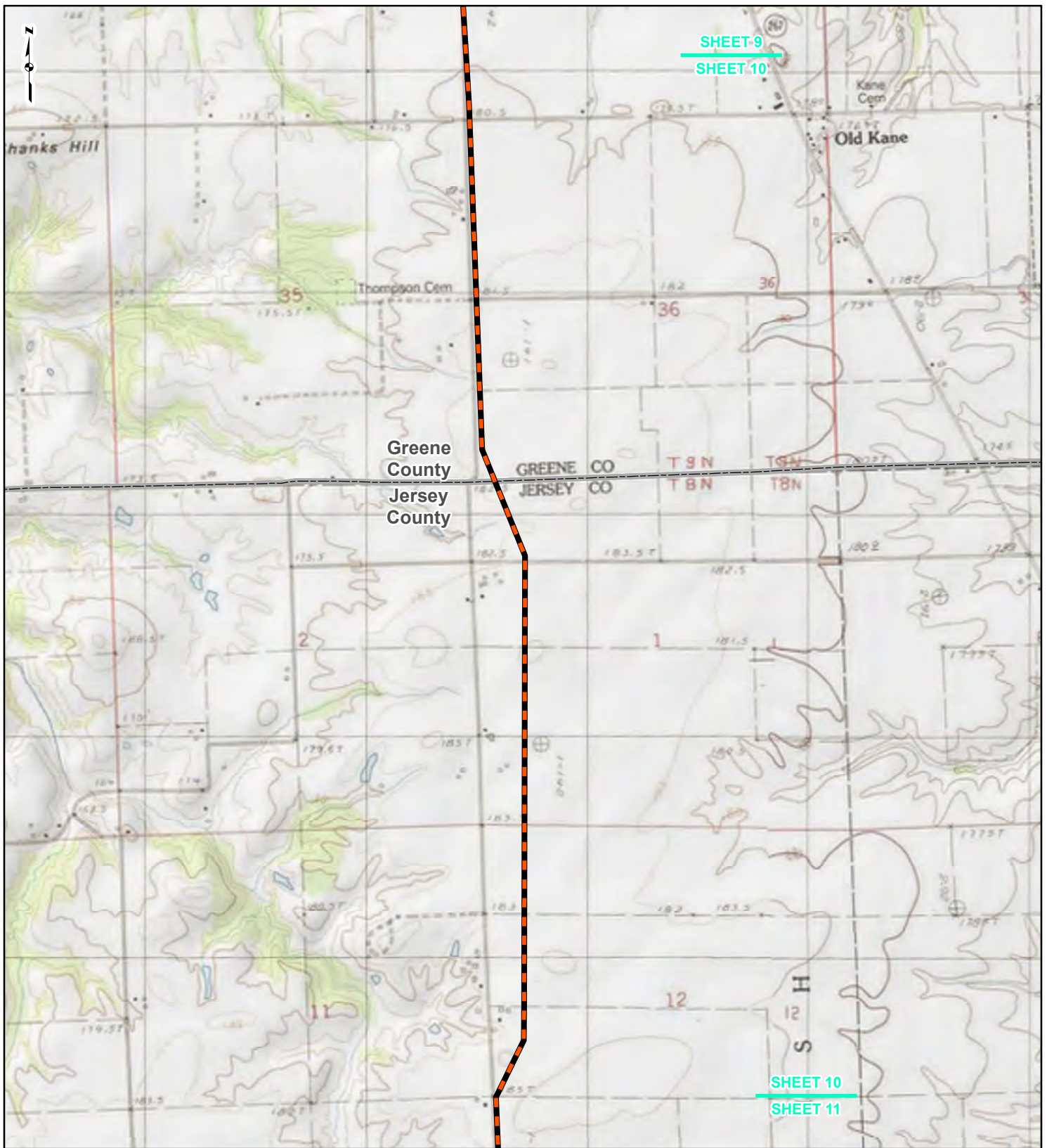
0 1,000 2,000 4,000
Feet

FIGURE 1
LOCATION MAP
SHEET 9 OF 21



DRAWN BY: PMH DATE: 7/28/2016
CHECKED: SWW APPROVED: LMF

REFERENCE: USGS 7.5' TOPOGRAPHIC QUADRANGLES: ALSEY (1983), ALTON (1994), BOYER CREEK (1983), CARROLLTON (1983), COLUMBIA BOTTOM (1999), ELSAH (1995), FLORISSANT (1999), GRAFTON (1995), JERSEYVILLE NORTH (1983), JERSEYVILLE SOUTH (1983), OTTERVILLE (1983) AND ROODHOUSE WEST (1983), ILLINOIS AND MISSOURI, OBTAINED THROUGH ESRI USA TOPO MAPS, NATIONAL GEOGRAPHIC TOPO AND I-CUBED, ACCESSED 07/2016.

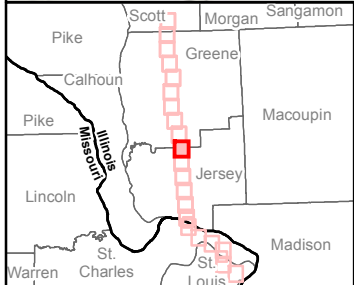


SHEET 9
SHEET 10





SHEET 10
SHEET 11

Greene
County
Jersey
County

GREENE CO T 9 N T 9 S
JERSEY CO T 8 N T 8 S



LEGEND

-  NEW BUILD 24-INCH DIAMETER PIPELINE
-  LINE 880 MODIFICATIONS
-  STATE BOUNDARY
-  COUNTY BOUNDARY

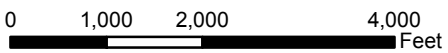
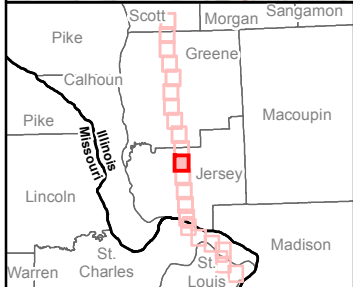
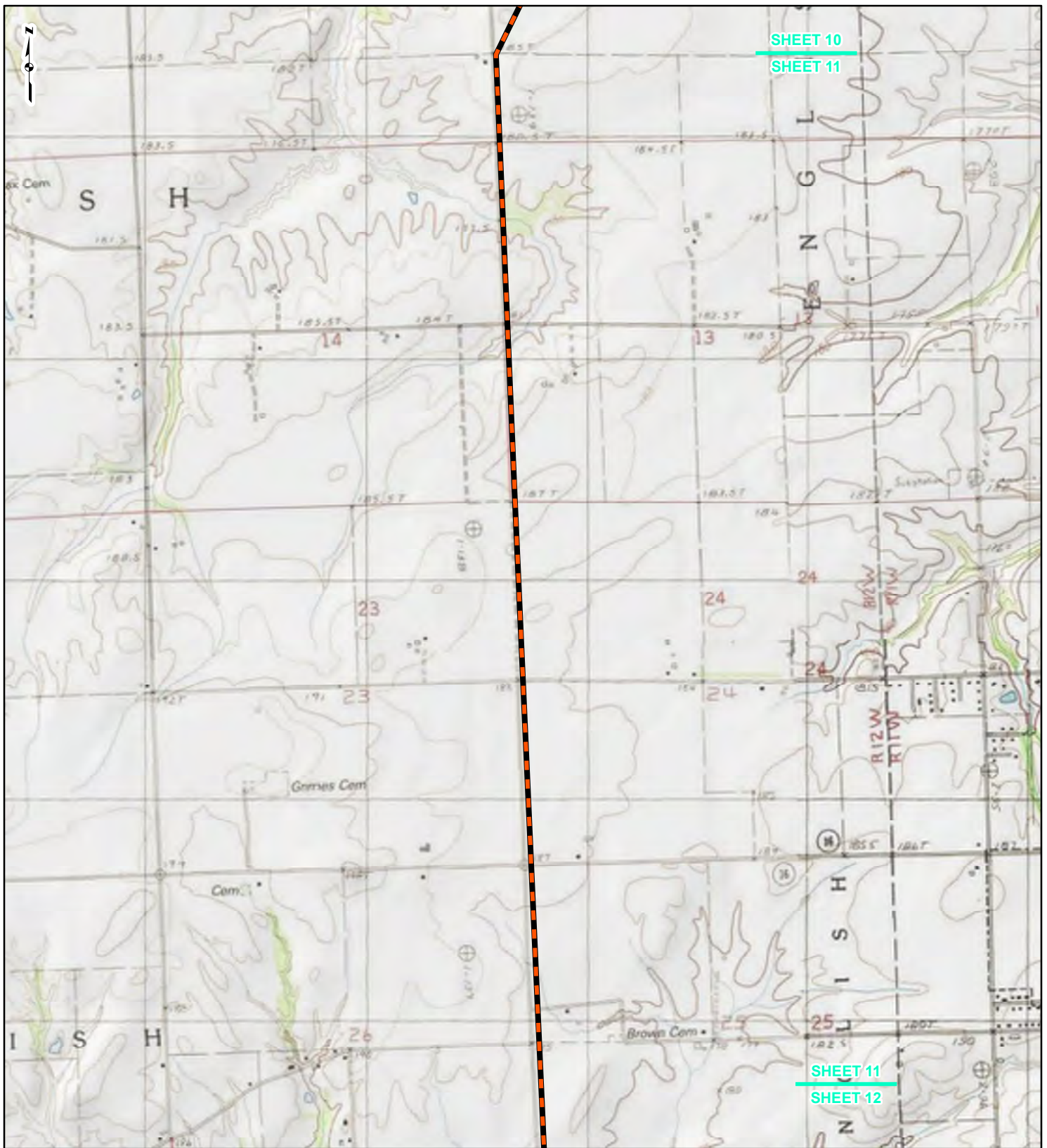


FIGURE 1
LOCATION MAP
SHEET 10 OF 21



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CHECKED: SWW APPROVED: LMF

REFERENCE: USGS 7.5' TOPOGRAPHIC QUADRANGLES: ALSEY (1983), ALTON (1994), BOYER CREEK (1983), CARROLLTON (1983), COLUMBIA BOTTOM (1999), ELSAH (1995), FLORISSANT (1999), GRAFTON (1995), JERSEYVILLE NORTH (1983), JERSEYVILLE SOUTH (1983), OTTERTVILLE (1983) AND ROODHOUSE WEST (1983), ILLINOIS AND MISSOURI, OBTAINED THROUGH ESRI USA TOPO MAPS, NATIONAL GEOGRAPHIC TOPO AND I-CUBED, ACCESSED 07/2016.



LEGEND

- NEW BUILD 24-INCH DIAMETER PIPELINE
- LINE 880 MODIFICATIONS
- STATE BOUNDARY
- COUNTY BOUNDARY

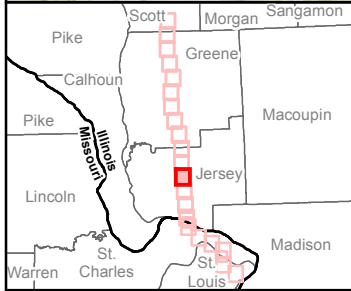
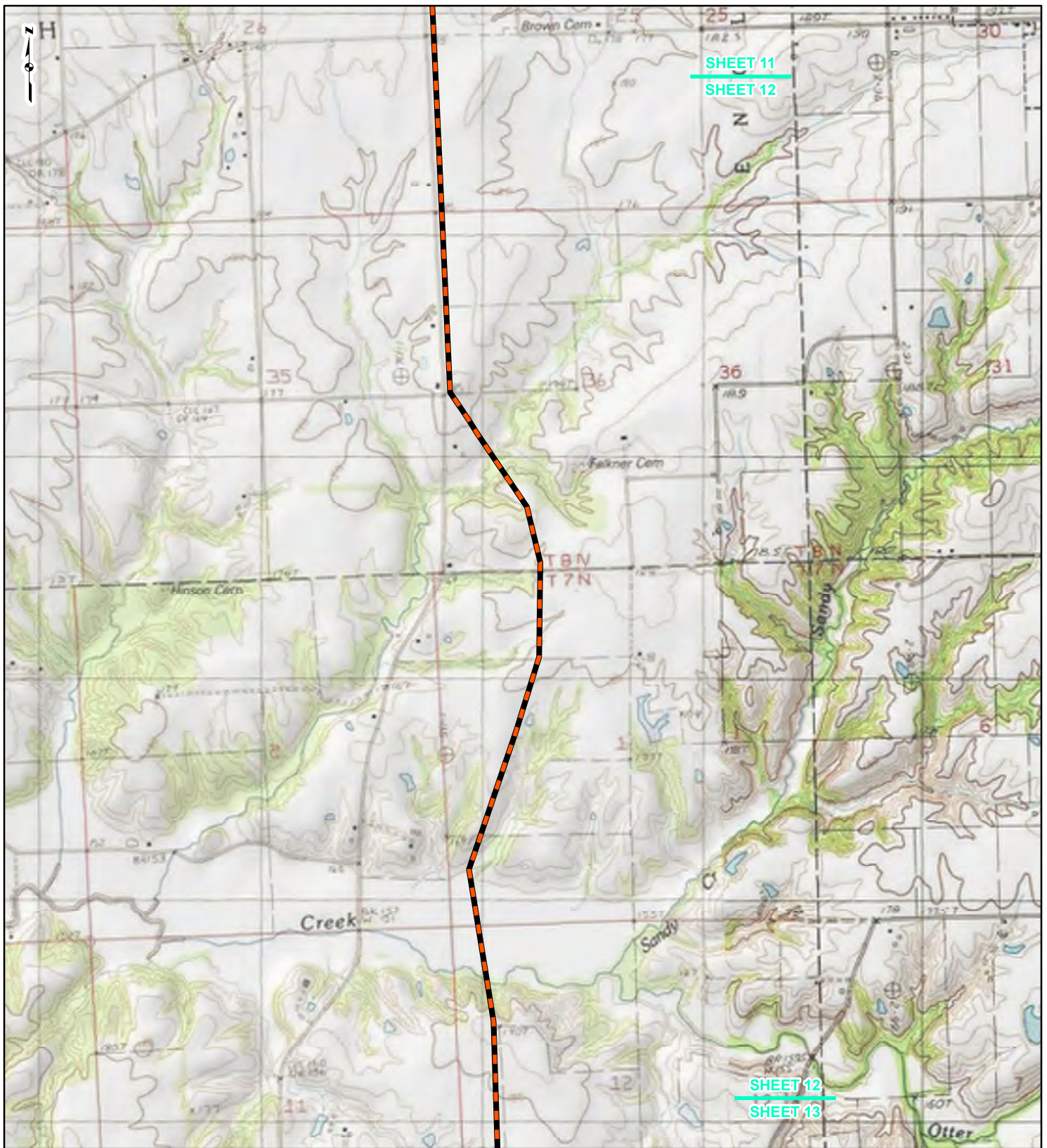
0 1,000 2,000 4,000
Feet

FIGURE 1
LOCATION MAP
SHEET 11 OF 21



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CHECKED: SWW APPROVED: LMF

REFERENCE: USGS 7.5' TOPOGRAPHIC QUADRANGLES: ALSEY (1983), ALTON (1994), BOYER CREEK (1983), CARROLLTON (1983), COLUMBIA BOTTOM (1999), ELSAH (1995), FLORISSANT (1999), GRAFTON (1995), JERSEYVILLE NORTH (1983), JERSEYVILLE SOUTH (1983), OTTERTVILLE (1983) AND ROODHOUSE WEST (1983), ILLINOIS AND MISSOURI, OBTAINED THROUGH ESRI USA TOPO MAPS, NATIONAL GEOGRAPHIC TOPO AND I-CUBED, ACCESSED 07/20/16.



LEGEND

- NEW BUILD 24-INCH DIAMETER PIPELINE
- LINE 880 MODIFICATIONS
- STATE BOUNDARY
- COUNTY BOUNDARY

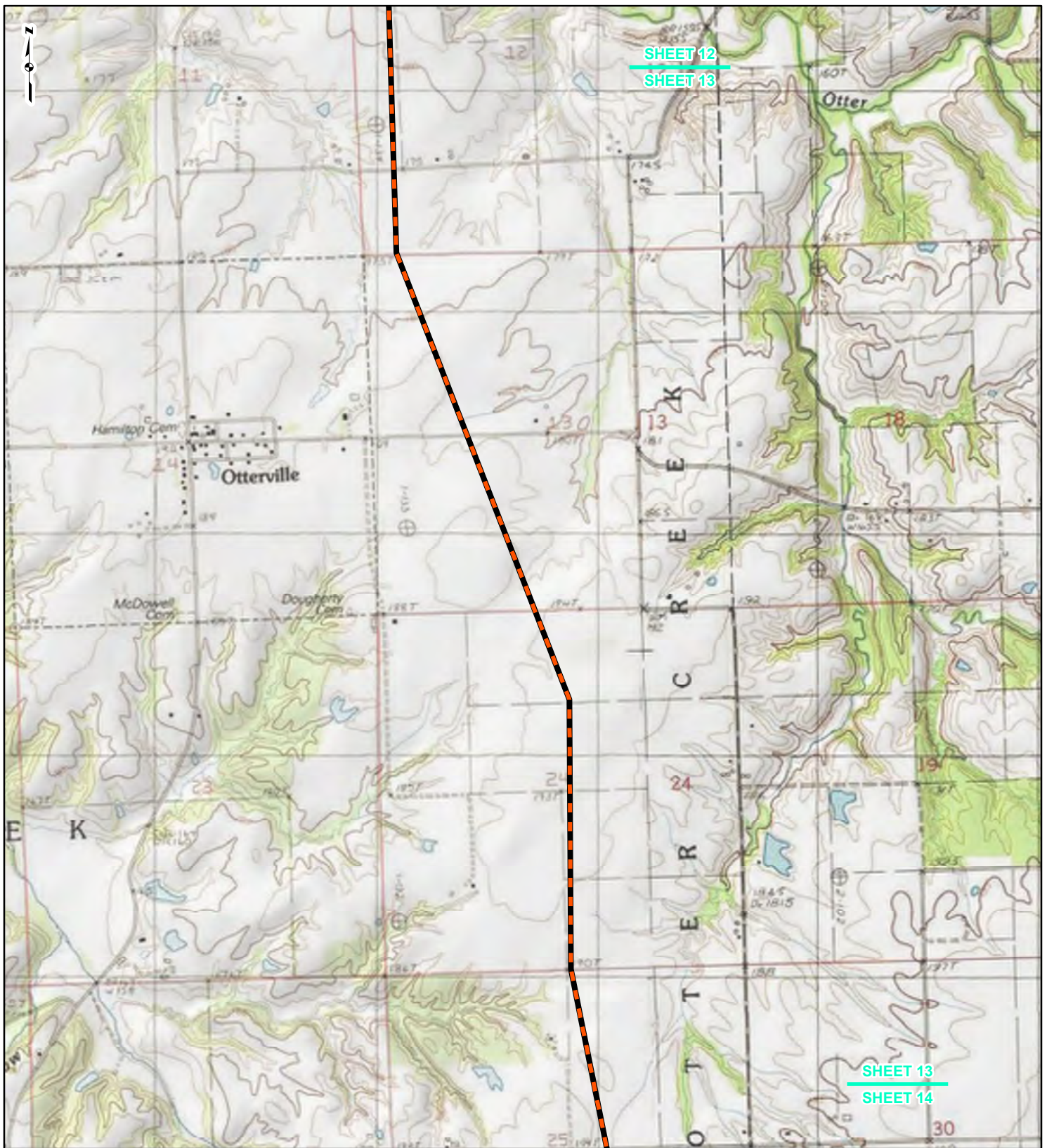
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FIGURE 1
LOCATION MAP
SHEET 12 OF 21

Spire STL Pipeline

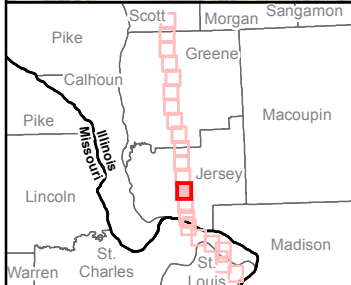
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SHEET 12
SHEET 13

SHEET 13
SHEET 14



LEGEND

- NEW BUILD 24-INCH DIAMETER PIPELINE
- LINE 880 MODIFICATIONS
- STATE BOUNDARY
- COUNTY BOUNDARY

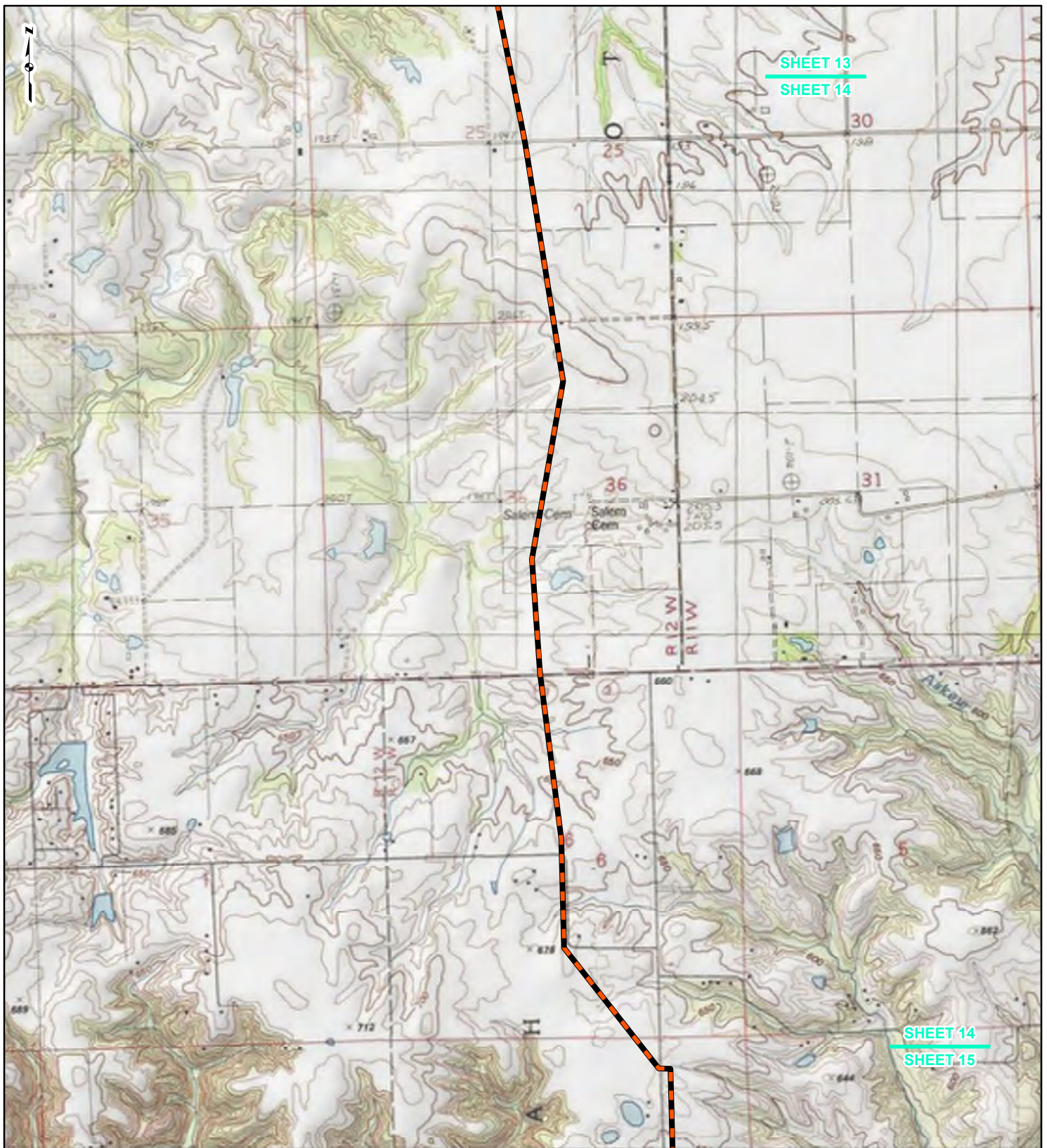
0 1,000 2,000 4,000
Feet

FIGURE 1
LOCATION MAP
SHEET 13 OF 21

Spire STL Pipeline

DRAWN BY: PMH DATE: 7/28/2016
CHECKED: SWW APPROVED: LMF

REFERENCE: USGS 7.5' TOPOGRAPHIC QUADRANGLES: ALSEY (1983), ALTON (1994), BOYER CREEK (1983), CARROLLTON (1983), COLUMBIA BOTTOM (1999), ELSAH (1995), FLOISSANT (1999), GRAFTON (1995), JERSEYVILLE NORTH (1983), JERSEYVILLE SOUTH (1983), OTTERVILLE (1983) AND ROODHOUSE WEST (1983), ILLINOIS AND MISSOURI, OBTAINED THROUGH ESRI USA TOPO MAPS, NATIONAL GEOGRAPHIC TOPO AND I-CUBED, ACCESSED 07/20/16.



LEGEND

- NEW BUILD 24-INCH DIAMETER PIPELINE
- LINE 880 MODIFICATIONS
- STATE BOUNDARY
- COUNTY BOUNDARY

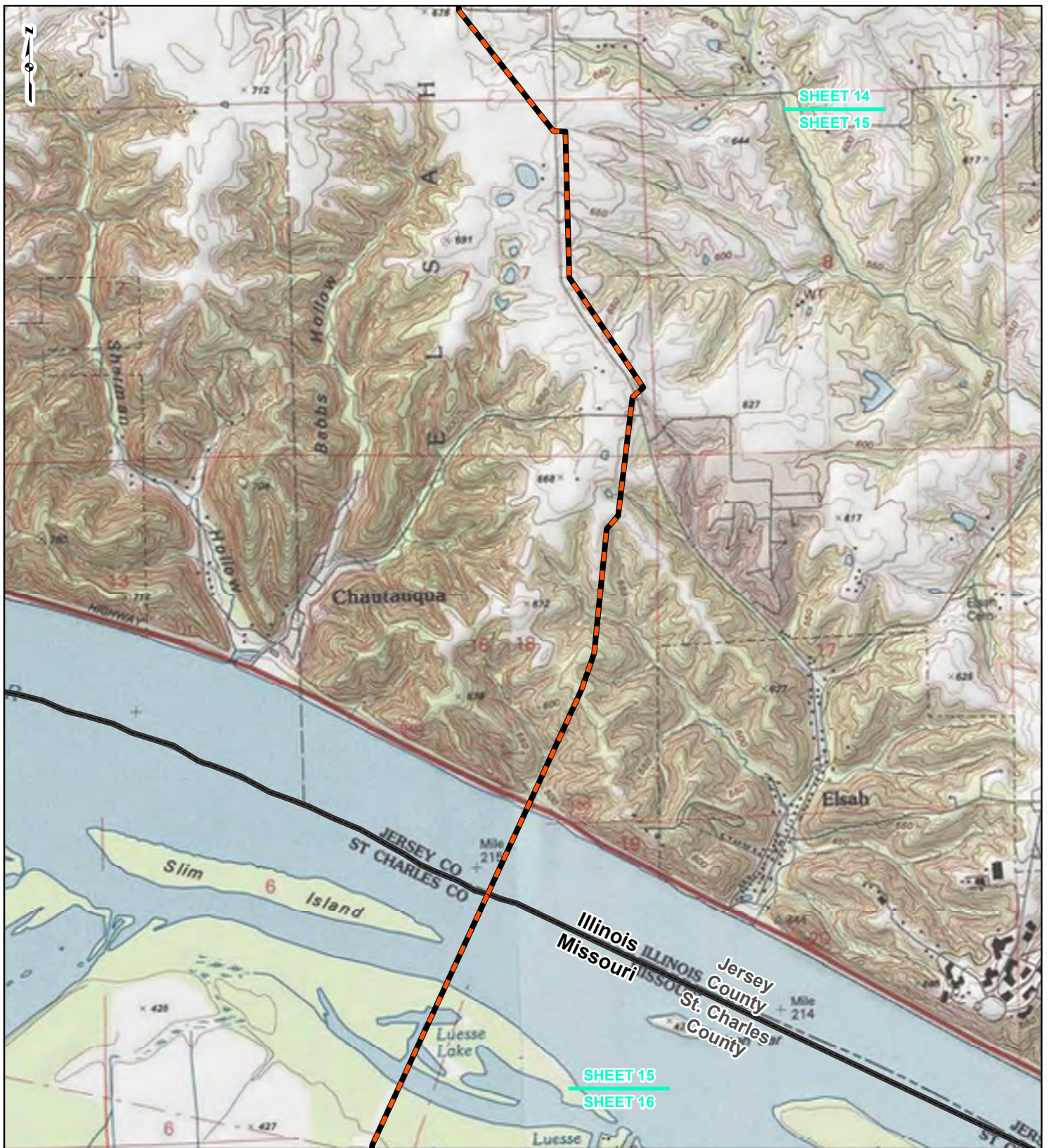
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Feet

FIGURE 1
LOCATION MAP
SHEET 14 OF 21



DRAWN BY: PMH DATE: 7/28/2016
 CHECKED: SWW APPROVED: LMF

REFERENCE: USGS 7.5' TOPOGRAPHIC QUADRANGLES: ALSEY (1983), ALTON (1994), BOYER CREEK (1983), CARROLLTON (1983), COLUMBIA BOTTOM (1999), ELSA (1995), FLOISSANT (1999), GRAFTON (1995), JERSEYVILLE NORTH (1983), JERSEYVILLE SOUTH (1983), OTTERTVILLE (1983) AND ROODHOUSE WEST (1983), ILLINOIS AND MISSOURI, OBTAINED THROUGH ESRI USA TOPO MAPS, NATIONAL GEOGRAPHIC TOPO AND I-CUBED, ACCESSED 07/2016.



SHEET 14
SHEET 15

SHEET 15
SHEET 16



LEGEND

- NEW BUILD 24-INCH DIAMETER PIPELINE
- LINE 880 MODIFICATIONS
- STATE BOUNDARY
- COUNTY BOUNDARY

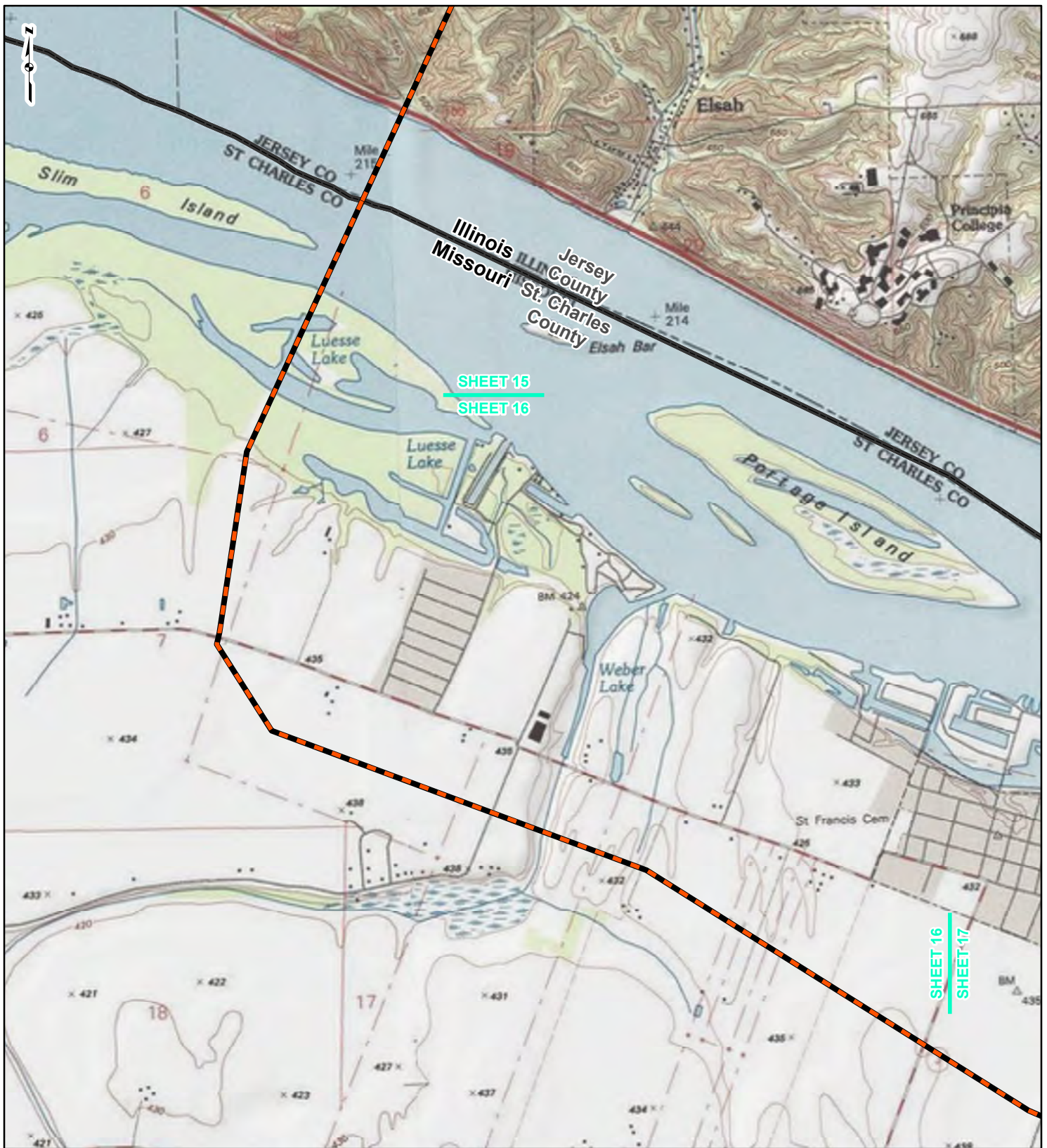
0 1,000 2,000 4,000
Feet

FIGURE 1
LOCATION MAP
SHEET 15 OF 21



DRAWN BY: PMH DATE: 7/28/2016
CHECKED: SWW APPROVED: LMF

REFERENCE: USGS 7.5' TOPOGRAPHIC QUADRANGLES: ALSEY (1983), ALTON (1994), BOYER CREEK (1983), CARROLLTON (1983), COLUMBIA BOTTOM (1999), ELSAH (1995), FLORISSANT (1999), GRAFTON (1995), JERSEYVILLE NORTH (1983), JERSEYVILLE SOUTH (1983), OTTERTVILLE (1983) AND ROODHOUSE WEST (1983), ILLINOIS AND MISSOURI, OBTAINED THROUGH ESRI USA TOPO MAPS, NATIONAL GEOGRAPHIC TOPO AND I-CUBED, ACCESSED 07/2016.



SHEET 15
SHEET 16

SHEET 16
SHEET 17



LEGEND

- NEW BUILD 24-INCH DIAMETER PIPELINE
- LINE 880 MODIFICATIONS
- STATE BOUNDARY
- COUNTY BOUNDARY

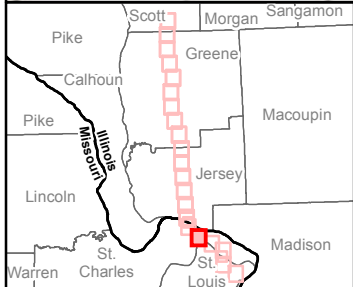
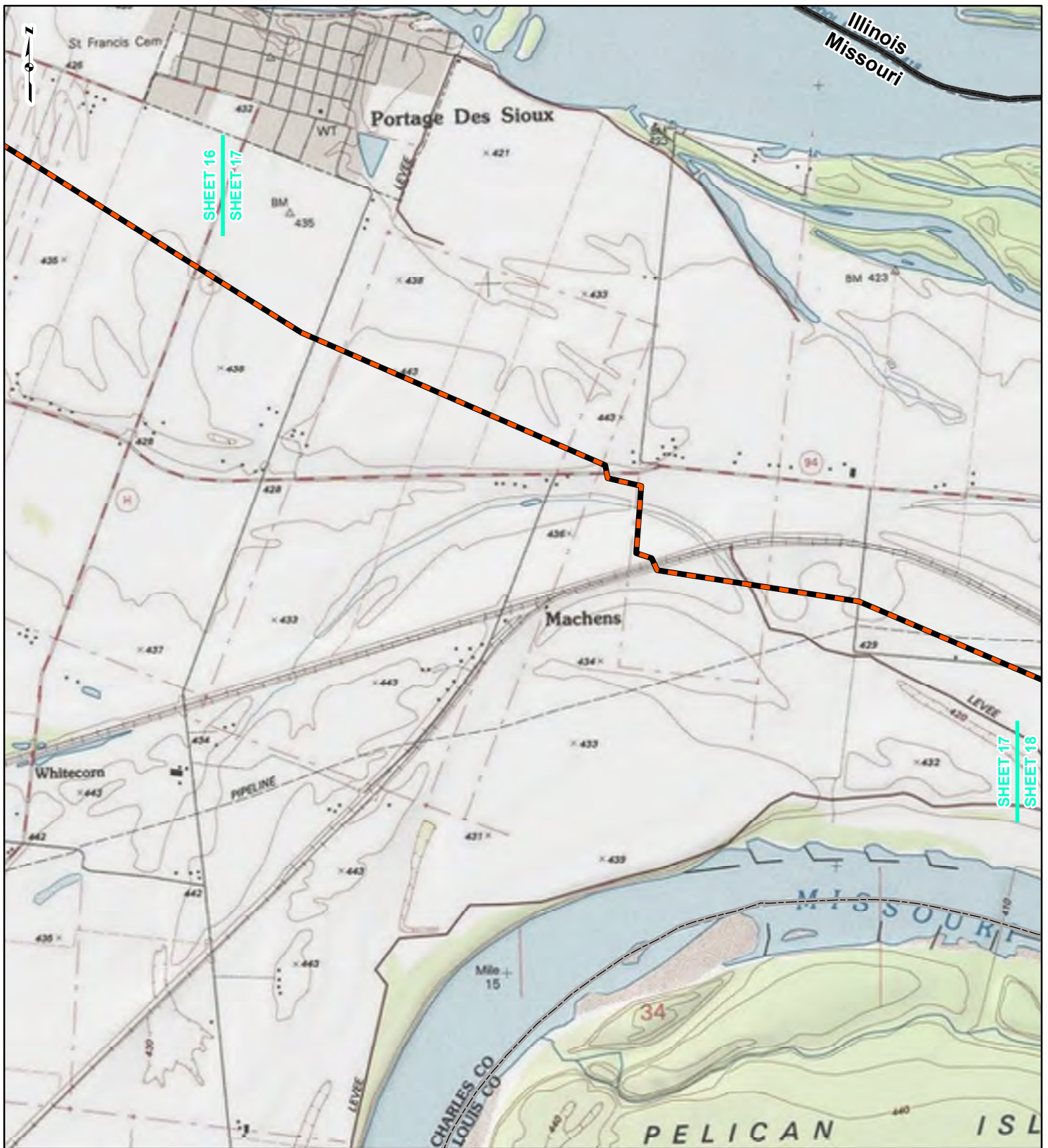
0 1,000 2,000 4,000
Feet

FIGURE 1
LOCATION MAP
SHEET 16 OF 21

Spire STL Pipeline

DRAWN BY: PMH DATE: 7/28/2016
CHECKED: SWW APPROVED: LMF

REFERENCE: USGS 7.5' TOPOGRAPHIC QUADRANGLES: ALSEY (1983), ALTON (1994), BOYER CREEK (1983), CARROLLTON (1983), COLUMBIA BOTTOM (1999), ELSA (1995), FLORISSANT (1999), GRAFTON (1995), JERSEYVILLE NORTH (1983), JERSEYVILLE SOUTH (1983), OTTERTVILLE (1983) AND ROODHOUSE WEST (1983), ILLINOIS AND MISSOURI, OBTAINED THROUGH ESRI USA TOPO MAPS, NATIONAL GEOGRAPHIC TOPO AND I-CUBED, ACCESSED 07/2016.



LEGEND

- NEW BUILD 24-INCH DIAMETER PIPELINE
- LINE 880 MODIFICATIONS
- STATE BOUNDARY
- COUNTY BOUNDARY

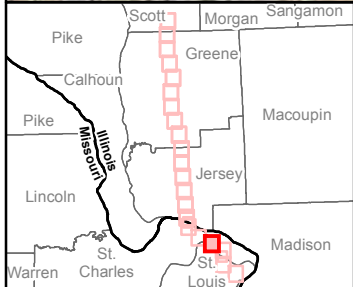
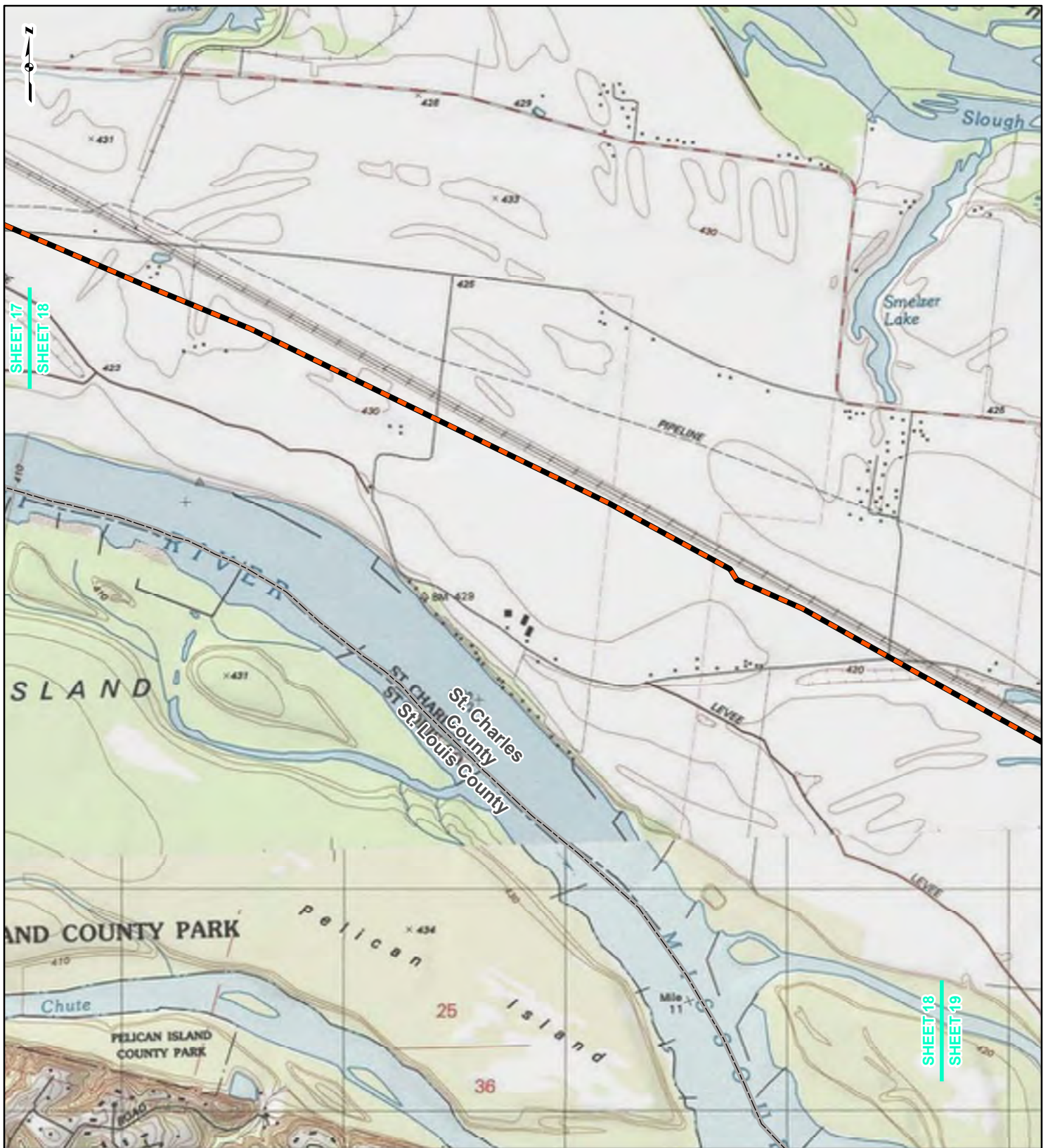
0 1,000 2,000 4,000
Feet

FIGURE 1
LOCATION MAP
SHEET 17 OF 21

Spire STL Pipeline

DRAWN BY: PMH DATE: 7/28/2016
 CHECKED: SWW APPROVED: LMF

REFERENCE: USGS 7.5' TOPOGRAPHIC QUADRANGLES: ALSEY (1983), ALTON (1994), BOYER CREEK (1983), CARROLLTON (1983), COLUMBIA BOTTOM (1999), ELSAH (1995), FLORISSANT (1999), GRAFTON (1995), JERSEYVILLE NORTH (1983), JERSEYVILLE SOUTH (1983), OTTERTVILLE (1983) AND ROODHOUSE WEST (1983), ILLINOIS AND MISSOURI, OBTAINED THROUGH ESRI USA TOPO MAPS, NATIONAL GEOGRAPHIC TOPO AND I-CUBED, ACCESSED 07/2016.



LEGEND

- NEW BUILD 24-INCH DIAMETER PIPELINE
- LINE 880 MODIFICATIONS
- STATE BOUNDARY
- COUNTY BOUNDARY

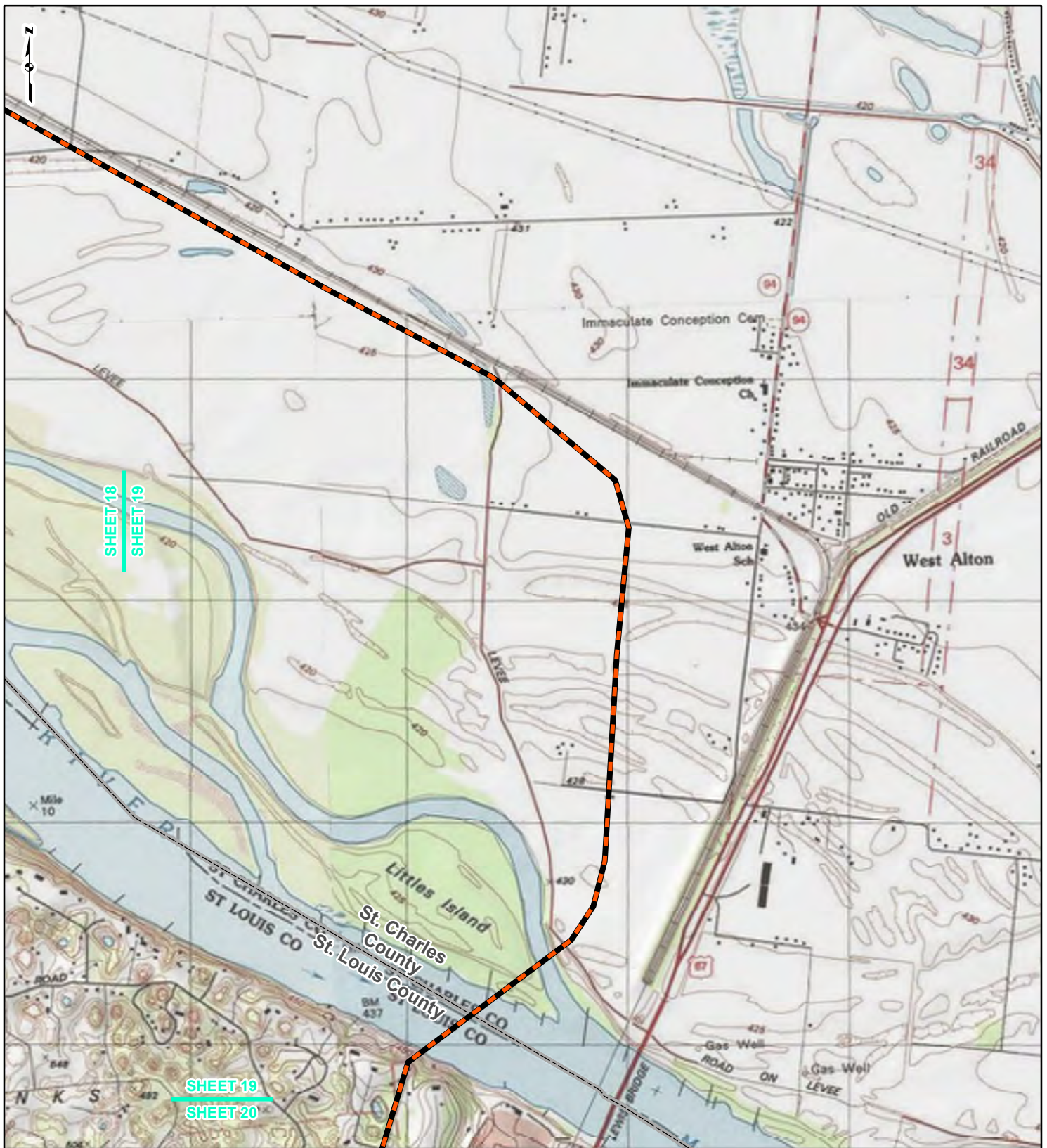
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Feet

FIGURE 1
LOCATION MAP
SHEET 18 OF 21

Spire STL Pipeline

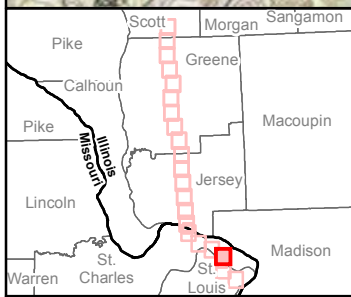
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REFERENCE: USGS 7.5' TOPOGRAPHIC QUADRANGLES: ELSEY (1983), ALTON (1994), BOYER CREEK (1983), CARROLLTON (1983), COLUMBIA BOTTOM (1999), ELSAH (1995), FLORISSANT (1999), GRAFTON (1995), JERSEYVILLE NORTH (1983), JERSEYVILLE SOUTH (1983), OTTERVILLE (1983) AND ROODHOUSE WEST (1983), ILLINOIS AND MISSOURI, OBTAINED THROUGH ESRI USA TOPO MAPS, NATIONAL GEOGRAPHIC TOPO AND I-CUBED, ACCESSED 07/2016.



SHEET 18
SHEET 19

SHEET 19
SHEET 20



LEGEND

- NEW BUILD 24-INCH DIAMETER PIPELINE
- LINE 880 MODIFICATIONS
- STATE BOUNDARY
- COUNTY BOUNDARY

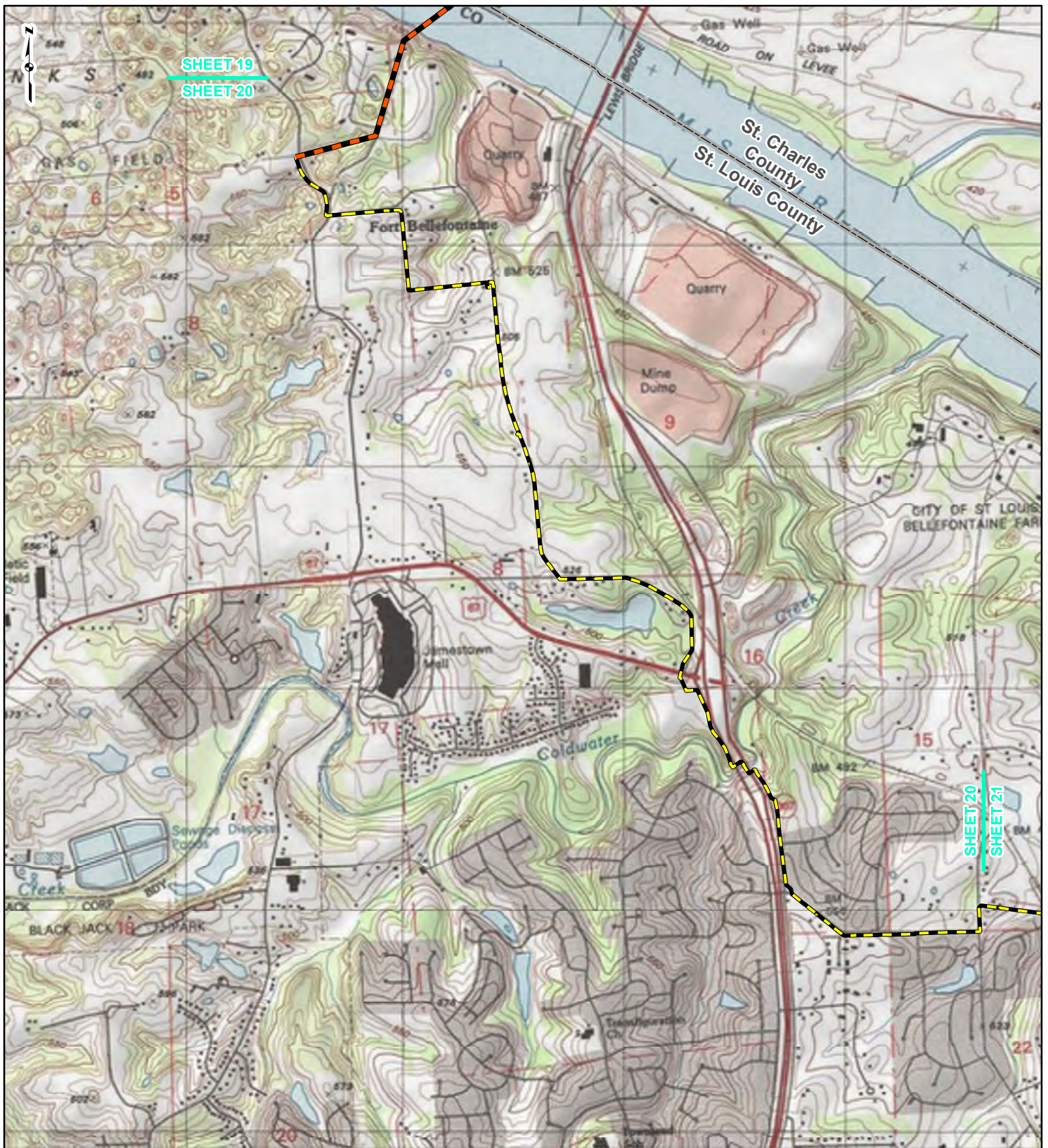
0 1,000 2,000 4,000
Feet

**FIGURE 1
LOCATION MAP
SHEET 19 OF 21**

Spire STL Pipeline

DRAWN BY: PMH DATE: 7/28/2016
CHECKED: SWW APPROVED: LMF

REFERENCE: USGS 7.5' TOPOGRAPHIC QUADRANGLES: ALSEY (1983), ALTON (1994), BOYER CREEK (1983), CARROLLTON (1983), COLUMBIA BOTTOM (1999), ELSAH (1995), FLORISSANT (1999), GRAFTON (1995), JERSEYVILLE NORTH (1983), JERSEYVILLE SOUTH (1983), OTTERTVILLE (1983) AND ROODHOUSE WEST (1983), ILLINOIS AND MISSOURI, OBTAINED THROUGH ESRI USA TOPO MAPS, NATIONAL GEOGRAPHIC TOPO AND I-CUBED, ACCESSED 07/2016.



LEGEND

- NEW BUILD 24-INCH DIAMETER PIPELINE
- LINE 880 MODIFICATIONS
- STATE BOUNDARY
- COUNTY BOUNDARY

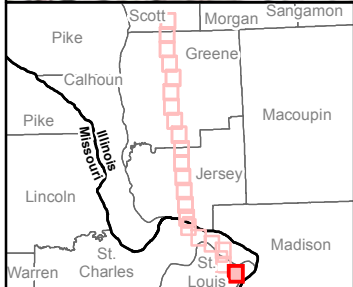
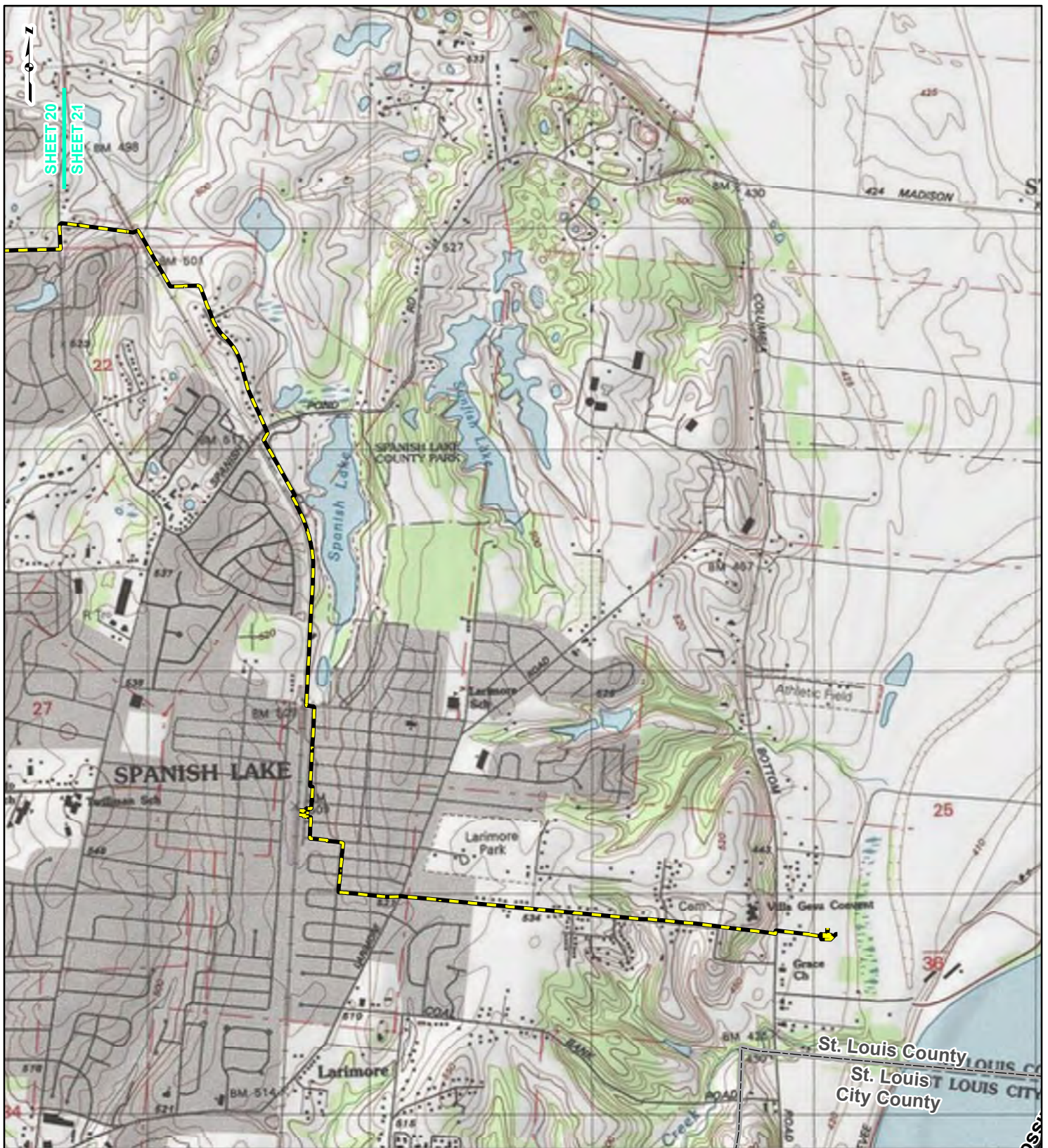
0 1,000 2,000 4,000
Feet

FIGURE 1
LOCATION MAP
SHEET 20 OF 21



DRAWN BY: PMH DATE: 7/28/2016
CHECKED: SWW APPROVED: LMF

REFERENCE: USGS 7.5' TOPOGRAPHIC QUADRANGLES: ALSEY (1983), ALTON (1994), BOYER CREEK (1983), CARROLLTON (1983), COLUMBIA BOTTOM (1999), ELSAH (1995), FLOISSANT (1999), GRAFTON (1995), JERSEYVILLE NORTH (1983), JERSEYVILLE SOUTH (1983), OTTERTVILLE (1983) AND ROODHOUSE WEST (1983), ILLINOIS AND MISSOURI, OBTAINED THROUGH ESRI USA TOPO MAPS, NATIONAL GEOGRAPHIC TOPO AND I-CUBED, ACCESSED 07/2016.



LEGEND

- NEW BUILD 24-INCH DIAMETER PIPELINE
- LINE 880 MODIFICATIONS
- STATE BOUNDARY
- COUNTY BOUNDARY

0 1,000 2,000 4,000
Feet

FIGURE 1
LOCATION MAP
SHEET 21 OF 21



DRAWN BY: PMH DATE: 7/28/2016
CHECKED: SWW APPROVED: LMF

REFERENCE: USGS 7.5' TOPOGRAPHIC QUADRANGLES: ALSEY (1983), ALTON (1994), BOYER CREEK (1983), CARROLLTON (1983), COLUMBIA BOTTOM (1999), ELSA (1995), FLORISSANT (1999), GRAFTON (1995), JERSEYVILLE NORTH (1983), JERSEYVILLE SOUTH (1983), OTTERTVILLE (1983) AND ROODHOUSE WEST (1983), ILLINOIS AND MISSOURI, OBTAINED THROUGH ESRI USA TOPO MAPS, NATIONAL GEOGRAPHIC TOPO AND I-CUBED, ACCESSED 07/2016.



July 29, 2016

Mr. Gary Calvert
Upper Mississippi Conservation Area
Missouri Department of Conservation
3333 North Highway 79
Elsberry, MO 63343

**Re: Notice of Use of Pre-Filing Process
Spire STL Pipeline
Scott, Greene, and Jersey Counties, IL
St. Charles and St. Louis Counties, MO**

Dear Mr. Calvert:

Spire STL Pipeline LLC ("Spire") is in the planning stages of the Spire STL Pipeline ("Project"). As proposed, the Project will serve the energy needs of residential, commercial and industrial customers in the eastern portion of Missouri, including the St. Louis metropolitan area and surrounding counties. The Project as proposed will consist of approximately 60 miles of new build 24-inch diameter steel pipeline (referred to as the "new build" portion of the Project) originating at an interconnection with Rockies Express Pipeline LLC ("REX") pipeline in Scott County, Illinois, extending down through Greene and Jersey Counties in Illinois before crossing the Mississippi River and extending east in St. Charles County, Missouri until crossing the Missouri river and tying into an existing 20-inch diameter steel transmission pipeline in St. Louis County, Missouri that is currently owned and operated by Laclede Gas Company ("LGC") (referred to as "Line 880"). Spire plans to purchase Line 880 from LGC and modify approximately nine miles of existing 20-inch diameter steel natural gas pipeline located in St. Louis County, Missouri that will connect the new build part of the Project to the Enable Mississippi River Transmission, LLC ("MRT") pipeline along the western bank of the Mississippi river in St. Louis County, Missouri. The total length of the entire Project will be approximately 70 miles.

Construction and operation of the proposed Project will be regulated by the Federal Energy Regulatory Commission ("Commission") among other regulatory agencies. Spire intends to utilize the Commission's pre-filing process detailed in Section 157.21 of the Commission's regulations, which allows the Commission and other agencies to initiate National Environmental Policy Act ("NEPA") review prior to Spire filing an application to the Commission. The Commission would need to issue Spire a Certificate of Public Convenience and Necessity to enable construction and operation of the proposed pipeline. The preliminary Project schedule includes the following target dates:

- July 22, 2016 - Commission acceptance into pre-filing; commencement of the NEPA process (pre-filing docket no. PF16-9-000);
- August 2016 (Anticipated) - biological and cultural resource surveys;
- January 2017 (Anticipated) - file final application with Commission;
- August 2017 (Anticipated) - NEPA document published;
- November 2017 (Anticipated) - Commission decision on application; and
- February 2018 (Anticipated) - commence construction activities.

On behalf of Spire, GAI would like to take this opportunity to invite the Missouri Department of Conservation to participate in the review of this Project as a cooperating agency during the Commission's pre-filing process. We look forward to your involvement in the review of this important Project and appreciate your cooperation.

Please note the intent of this letter is solely for the purpose of inviting you to participate in the Commission's NEPA pre-filing process. The Commission will also reach out to you requesting your agency to be a cooperating agency. Specific and necessary consultations and/or applicable permit applications will be addressed to you under separate cover.

If you have any questions or would like additional information, please feel free to contact me at 331.301.2002 or by e-mail at L.Ferry@gaiconsultants.com.

Sincerely,

GAI Consultants, Inc.

A handwritten signature in black ink that reads "Lori M. Ferry". The signature is written in a cursive, flowing style.

Lori M. Ferry
Environmental Project Manager

LMF/gmg

Attachment: United States Geological Survey (USGS) Topographic Map (Figure 1)

Ali Trunzo

From: Jayme Fuller
Sent: Monday, July 18, 2016 4:24 PM
To: Ali Trunzo
Subject: FW: Project Review- Spire STL Pipeline
Attachments: Beres_St.Charles-StLouis_UTILITYLine_NHR.pdf

Jayme L. Fuller, Environmental Manager

GAI Consultants, Inc.

6420 Castleway West, Indianapolis, IN 46250

1-234-203-0763 | C 614.499.6258 |     

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From: Audrey Beres [<mailto:Audrey.Beres@mdc.mo.gov>]
Sent: Wednesday, July 06, 2016 5:30 PM
To: Jayme Fuller <J.Fuller@gaiconsultants.com>
Cc: Lori Ferry <L.Ferry@gaiconsultants.com>; Brittanie Brauner <Brittanie.Brauner@mdc.mo.gov>
Subject: RE: Project Review- Spire STL Pipeline

Jayme-

Attached is the MDC Natural Heritage Review for the proposed pipeline route. We look forward to continuing to coordinate with you and the Corps on any proposed temporary or permanent impacts to fish, forests and wildlife, as well as conservation areas owned or managed by us. Once you have the route finalized, we can run it through the Heritage Review system again to look for any additional species or habitats of concern that may be impacted.

Audrey Beres
Policy Coordinator
Policy Coordination
Missouri Department of Conservation
2901 West Truman Blvd.
Jefferson City, MO 65109
O: 573.522.4115 ext. 3346
F: 573.526.4495
Audrey.Beres@mdc.mo.gov

From: Jayme Fuller [<mailto:J.Fuller@gaiconsultants.com>]
Sent: Friday, June 17, 2016 9:16 AM
To: Audrey Beres
Cc: Lori Ferry
Subject: Project Review- Spire STL Pipeline

Hi Audrey,

Thanks for taking the time to speak with me this morning. I have provided a project description about the pipeline below. As we discussed, we would like to sit down with your office for a quick meeting to discuss possible permitting issues that we may face with this project. We are trying to reach out to agencies as early as possible in the process and create a great working relationship. We will be in St. Louis the week of June 27th and if possible, would like to meet with you all the 29th or 30th of June.

Please let me know if this is doable. Thanks again and look forward to meeting you!

Spire STL Pipeline LLC (Spire) is proposing to build, operate, and maintain the Spire STL Pipeline Project (Project). The Project consists of approximately 60-miles of new 24-inch-diameter natural gas pipeline commencing in Scott County, Illinois at an interconnect with the existing Rockies Express Pipeline and traversing south through Greene and Jersey counties, Illinois and into St. Charles and St. Louis counties, Missouri. Spire plans to install three metering and regulating stations, one odorization station and one standalone regulating station as part of the new build section of the project. The Project also includes an upgrade of an existing 9-mile 20-inch natural gas pipeline in St. Louis County, Missouri which would include the addition of two additional measuring and regulating stations. No compressor stations are currently proposed for the Project. The proposed pipeline will be designed and built to carry up to 400,000 dekatherms per day (Dth/d) and is proposed to provide an additional source of natural gas to the local distribution company (LDC) in the St. Louis metropolitan area.

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telephone log



gai consultants

Date: 7/6/2016

Project / Admin. No.: E160438.00

Call From: Ms. Jayme Fuller

Company: GAI Consultants

Phone No.: 234-203-0763

Call To: Mr. Gary Calvert

Company: Missouri Department of Conservation

Phone No.: 573-898-5905, ext. 1890

Subject: Spire STL Pipeline – Indiana bats, Mississippi River

cc:

Summary of Discussion, Decisions, and Commitments:

Gary Calvert is a Wildlife Management Biologist for Missouri DOC that manages the islands near River mile 216 to 208 as shown on the USACE map.

Gary indicated that he is pretty confident that ISU is performing Indiana bat surveys on the set of islands near river miles 210 and 209 and that there are known occurrences of Indiana bat maternity colonies. He was unclear as to whether there were known occurrences on the Two Rivers Refuge that is closer to the project at river mile 214 to 213.

Ali Trunzo

Attachments: Line_880_2016_06_07.sbx; Line_880_2016_06_07.shp; Line_880_2016_06_07.shp.xml; Line_880_2016_06_07.shx; PPRO_Route_3_2016_0_07.dbf; PPRO_Route_3_2016_0_07.prj; PPRO_Route_3_2016_0_07.sbn; PPRO_Route_3_2016_0_07.sbx; PPRO_Route_3_2016_0_07.shp; PPRO_Route_3_2016_0_07.shp.xml; PPRO_Route_3_2016_0_07.shx; Line_880_2016_06_07.dbf; Line_880_2016_06_07.prj; Line_880_2016_06_07.sbn

From: Jayme Fuller
Sent: Friday, June 17, 2016 9:16 AM
To: audrey.beres@mdc.mo.gov
Cc: Lori Ferry <L.Ferry@gaiconsultants.com>
Subject: Project Review- Spire STL Pipeline

Hi Audrey,

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Please let me know if this is doable. Thanks again and look forward to meeting you!

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Missouri Department of Agriculture

telephone log



gai consultants

Date: September 30, 2016

Project / Admin. No.: E160438.00

Call From: Erin Matthews

Company: GAI Consultants

Phone No.: 412-399-5251

Call To: Collin Wamsley and Charles Perkins

Company: Missouri Department of Agriculture and St. Charles County SWCD

Phone No.: 217.742.9561

Subject: Noxious weeds

cc:

Summary of Discussion, Decisions, and Commitments:

I've spoken with Collin Wamsley of the MO Department of Agriculture and Charles Perkins of the St. Charles County Soil and Water Conservation District. They informed me of the following;

- a. Noxious weed jurisdiction is given to the MoDA, but enforcement was passed onto the county. Missouri Noxious Weed Law certified by the Weed Board
<http://agriculture.mo.gov/plants/ipm/noxiousweeds.php>
- b. The law generally states that no noxious weeds are allowed to be planted, you must purchase native weed free seed, and cannot allow noxious weeds to grow to maturity.

telephone log



gai consultants

Date: 6-24-2016

Project / Admin. No.: E160438.00

Call From: Jayme Fuller

Company: GAI Consultants

Phone No.: 234-203-0763

Call To: Legal Counsel

Company: Missouri Department of Agriculture

Phone No.:

Subject: Agricultural Mitigation Agreements

cc:

Summary of Discussion, Decisions, and Commitments:

Called to inquire about agency requirements such as agricultural mitigation agreements. The legal counsel for Missouri Department of Agriculture confirmed that they do not coordinate agricultural mitigation agreements, and deferred to MDNR for any permitting or agreement requirements.