



Spire STL Pipeline Project

Draft Resource Report 1
General Project Description

FERC Docket No. PF16-9-000

Pre-filing draft
October 2016

Public



RESOURCE REPORT 1 - GENERAL PROJECT DESCRIPTION	
SUMMARY OF FILING INFORMATION	
Information	Found in
1. Provide a detailed description and location map of the Project facilities. (§380.12(c)(1))	Section 1.1, Figure 1.1-1, and Construction Alignment Sheets (Appendix 1-B)
2. Describe non-jurisdictional facilities that would be built in association with the Project. (§380.12(c)(2))	Section 1.8.
3. Provide current original U.S. Geological Survey (USGS) 7.5-minute series topographic maps with mileposts showing the Project facilities. (§380.12(c)(3))	Appendix 1-A.
4. Provide aerial images or photographs or alignment sheets based on these sources with mileposts showing the Project facilities. (§380.12(c)(3))	Construction Alignment Sheets (Appendix 1-B)
5. Provide plot/site plans of compressor stations showing the location of the nearest noise-sensitive areas (NSA) within 1 mile. (§§380.12(c)(3) and (4))	Not applicable.
6. Describe construction and restoration methods. (§380.12(c)(6))	Section 1.3.
7. Identify the permits required for construction across surface waters. (§380.12(c)(9))	Table 1.6-1.
8. Provide the names and addresses of affected landowners and certify that affected landowners would be notified as required in §157.6(d). (§§380.12(a)(4) and (c)(10))	Section 1.7 and landowner contact information (submitted to FERC on 10/14/2016).
INFORMATION RECOMMENDED OR OFTEN MISSING	
1. Describe all authorizations required to complete the proposed action and the status of applications for such authorizations, including actual or anticipated submittal and receipt dates.	Section 1.6 and Table 1.6-1.
2. Provide plot/site plans of all aboveground facilities that are not completely within the right-of-way.	Appendix 1-G



RESOURCE REPORT 1 - GENERAL PROJECT DESCRIPTION	
INFORMATION RECOMMENDED OR OFTEN MISSING	
Information	Found in
3. Provide detailed typical construction right-of-way cross-section diagrams for each proposed right-of-way configuration showing information such as widths and relative locations of existing rights-of-way, new permanent rights-of-way, and temporary construction rights-of-way. Clearly identify any overlap of existing rights-of-way for projects involving collocation. Identify by pipeline facility and milepost where each right-of-way configuration would apply.	Resource Report 8.
4. Summarize the total acreage of land affected by construction and operation of the project.	Section 1.2 and Tables 1.2-1 and 1.2-2.
5. Describe cathodic protection system; include associated land requirements as appropriate.	Section 1.1.2 and Section 1.2.1.
6. Describe construction and restoration methods for offshore facilities as well as onshore facilities.	Section 1.3.
7. For proposed abandonments, describe how the right-of-way would be restored, who would own the site or right-of-way after abandonment, who would be responsible for facilities that would be abandoned in place, and whether landowners were given the opportunity to request removal.	Section 1.1.2.1.
8. If Resource Report 5, Socioeconomics is not provided, provide the start and end dates of construction, the number of pipeline spreads that would be used, and the workforce per spread.	Section 1.3
9. If project includes construction in the federal offshore area, include in the discussion of required authorizations and clearances the status of consultations with the Bureau of Ocean Energy Management, Regulation and Enforcement. File with the Bureau of Ocean Energy Management, Regulation and Enforcement for right-of-way grants at the same time or before filing the Federal Energy Regulatory Commission (FERC) application.	Not applicable.



RESOURCE REPORT 1 - GENERAL PROJECT DESCRIPTION	
INFORMATION RECOMMENDED OR OFTEN MISSING	
Information	Found in
10. For project involving the import or export of natural gas/ liquefied natural gas and construction of liquefied natural gas facilities, include in the discussion of required authorizations and clearances the status of consultations and authorizations required from the U.S. Department of Energy, U.S. Coast Guard, and the Federal Aviation Administration, as applicable.	Not applicable.
11. Send two (2) additional copies of topographic maps and aerial images/photographs directly to the environmental staff of the Office of Energy Projects.	Hardcopies submitted to FERC based on PM request.
12. Provide an electronic copy of the landowner list directly to the FERC environmental staff (check with FERC staff for required format).	Submitted to FERC 10/14/2016.



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Acronyms and Abbreviations

ATWS	additional temporary workspace
CFR	Code of Federal Regulations
Dth/d	dekatherms per day
E&SCs	erosion and sediment controls
EI	Environmental Inspector
EIA	Energy Information Administration
Enable MRT	Enable Mississippi River Transmission, LLC
ENGO	environmental non-governmental organization
ER	Environmental Report
ESA	Endangered Species Act
FERC	Federal Energy Regulatory Commission
HDD	horizontal directional drill
HUC	Hydrologic Unit Code
IDOT	Illinois Department of Transportation
IDNR	Illinois Department of Natural Resources
ILCS	Illinois Compiled Statutes
LDC	Local Gas Distribution Company
LGC	Laclede Gas Company
M&R	metering and regulating
MAOP	maximum allowable operating pressure
MDNR	Missouri Department of Natural Resources
MLV	mainline valve
MoDOT	Missouri Department of Transportation
MP	Milepost
MPSC	Missouri Public Service Commission
NEPA	National Environmental Policy Act
NGO	non-governmental organization
NHPA	National Historic Preservation Act
NMSZ	New Madrid Seismic Zone



NPDES	National Pollutant Discharge Elimination System
NWP	Nationwide Permit
O&M	Operation & Maintenance
OSHA	Occupational Safety and Health Administration
PHMSA	Pipeline and Hazardous Materials Safety Administration
Plan	FERC's Upland Erosion Control, Revegetation, and Maintenance Plan
Procedures	FERC's Wetland and Waterbody Construction and Mitigation Procedures
Project	Spire STL Pipeline Project
psig	pounds per square inch gauge
REX	Rockies Express Pipeline LLC
SHPO	State Historic Preservation Office
Spire	Spire STL Pipeline LLC
TWS	temporary workspace
USACE	United States Army Corps of Engineers
USDOT	United States Department of Transportation
USFWS	United States Fish and Wildlife Service
USGS	United States Geological Survey



General Project Description

1.1 Proposed Facilities

Spire STL Pipeline LLC (“Spire”), a wholly owned subsidiary of Spire Inc.,¹ is seeking authorization from the Federal Energy Regulatory Commission (“FERC”) pursuant to Section 7(c) of the Natural Gas Act to construct and operate the proposed Spire STL Pipeline Project (“Project”) located in Scott, Greene, and Jersey Counties, Illinois, and St. Charles and St. Louis Counties, Missouri. The Project as proposed will consist of approximately 58 miles of new, greenfield, 24-inch diameter steel pipeline (referred to as the “24-inch pipeline” portion of the Project) originating at an interconnection with the 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. The 24-inch pipeline then crosses the Missouri River and ties into an existing pipeline in St. Louis County, Missouri that is currently owned and operated by Laclede Gas Company (“LGC”) (referred to as “Line 880”). As part of the proposed Project and subject to LGC’s receipt of approval from the Missouri Public Service Commission (“MPSC”), Spire is proposing to purchase Line 880 from LGC and modify the pipeline before placing it into interstate service. Line 880 consists of approximately seven miles of existing 20-inch diameter steel natural gas pipeline located in St. Louis County, Missouri that will connect the 24-inch pipeline part of the Project to the Enable Mississippi River Transmission, LLC (“Enable MRT”) pipeline along the western bank of the Mississippi River in St. Louis County, Missouri at the terminus of the Project. The total length of the Project pipelines will be approximately 65.0 miles. The overall design capacity of the Project pipeline is expected to be 400,000 dekatherms per day (“Dth/d”). No compression will be required. The Project will also include the construction of three new metering and regulating (“M&R”) station interconnects with REX in Illinois and LGC and Enable MRT in Missouri and the construction of a new facility at an existing LGC site along Line 880.

1.1.1 Purpose and Need

The Project is designed to provide approximately 400,000 Dth/d of year-round transportation service from an interconnect with REX in Scott County, Illinois to markets in the St. Louis metropolitan area, eastern Missouri and southwestern Illinois. Its purpose is to provide additional firm interstate pipeline capacity and access to additional supply basins to serve homes and businesses in the St. Louis metropolitan area and surrounding counties. The Project will enhance reliability and supply security, and will reduce reliance upon older and less favorable natural gas pipelines and propane peak-shaving infrastructure.

The Project was initially developed in response to strategic supply planning and reliability enhancement objectives of the Foundation Shipper, LGC. Spire is in the final stages of negotiating a precedent agreement with LGC as the Foundation Shipper for 350,000 Dth/d - the substantial bulk capacity on the Project. Accordingly, at present,

¹ Spire Inc. is the new name of The Laclede Group, a natural gas company with over 150 years of experience providing natural gas service in the St. Louis, Missouri area, with current natural gas distribution operations serving 1.7 million customers in Missouri, Alabama, and Mississippi.



87.5 percent of the anticipated firm capacity from the Project is committed to the Foundation Shipper and the remaining 12.5 percent is unsubscribed.

Spire held an Open Season for the Project from August 1, 2016 through August 19, 2016. As a result of the Open Season, Spire is currently negotiating with two other prospective shippers that expressed interest in the Project during the Open Season. Spire will update this section of Resource Report 1 in the Environmental Report (“ER”) that Spire submits with the FERC application.²

1.1.1.1 Purpose and Needs Relating to the Greater St. Louis Area and Eastern Missouri

The Project will meet the needs of the Foundation Shipper, LGC, and other shippers in the greater St. Louis area and eastern Missouri that may have a desire to diversify their pipeline capacity entitlements and associated natural gas supply by providing access to REX and the supply basins attached thereto. As the local gas distribution company (“LDC”) with responsibility to provide natural gas service to residential, commercial, and industrial customers, LGC currently serves approximately 650,000 customers in the St. Louis metropolitan area and surrounding counties in eastern Missouri.

The St. Louis market is constrained in terms of interstate natural gas pipeline capacity to LGC’s city gate and access to diverse natural gas supplies. Currently, LGC holds firm transportation service entitlements (i.e., transportation capacity) on three interstate pipelines that directly connect to its LDC system, with over 87 percent of its total firm city-gate transportation capacity under contract with Enable MRT. To supplement its flowing supply during the winter season and on peak days, LGC also holds on and off-system storage assets. In addition, LGC relies on a propane facility behind its city gate that is used to enrich the British thermal unit content of natural gas received in order to meet critical peak system requirements during limited periods of highest demand when demand exceeds LGC’s flowing supply and storage withdrawal capabilities.

In addition to physical gas transportation capacity constraints, the St. Louis market currently lacks competitively-priced firm access to the supply basins that are attached to the REX pipeline system. The prolific nature of the production connected to REX has been well documented, and the United States Department of Energy, Energy Information Administration (“EIA”) has projected substantial growth in these basins while at the same time projecting decreases in many other sources of domestic gas production over the next several decades.³

The mature pipelines serving the St. Louis market primarily provide access to gas supply basins in Kansas, Oklahoma, Texas, and the Gulf Coast area. On the whole, those traditional supply basins have been largely static or declining in recent years. Furthermore, as a result of the geographic proximity of those supply basins to developing new markets for natural gas such as liquefied natural gas and Mexican exports, increased competition for supply out of those regions is likely to further increase gas supply price risk to the St. Louis market absent alternative sources. In addition, current transportation paths to the St. Louis area generally involve multiple pipelines and, consequently, “rate stacking” in order to access those traditional supply sources. As those basins

² Because Spire is a proposed new pipeline, without existing customers, Spire was not required, nor able, to conduct a reverse open season to solicit capacity turnback.

³ United States EIA, [Annual Energy Outlook 2016](#).



decline over time, markets such as St. Louis need access to newer and growing supply basins located in other regions of the country to ensure affordable and reliable supply.

Meanwhile, the REX pipeline - one of the newest and largest pipeline systems in the United States, with substantial capacity spanning supply basins in the Rocky Mountains all the way to the Mid-Atlantic region - has initiated a series of construction projects to enable its interstate pipeline system to source and deliver gas bi-directionally in order to provide firm deliveries from prolific supply basins in the eastern United States to markets as far west as central Illinois.⁴ REX will perform yard and station piping modifications at its existing Blue Mound Compressor Station in Christian County, Illinois pursuant to 18 Code of Federal Regulations (“CFR”) § 2.55(a). The project will occur entirely within the station fence line on previously approved and disturbed areas. The modifications will enable REX to provide east-to-west transportation in REX Zone 3, on a firm primary basis, to delivery locations as far west as Scott County, Illinois. The Blue Mound Compressor Station piping modifications are independent of the Rockies Express Zone 3 Capacity Enhancement Project. These modifications will enable REX to make deliveries from the east at the new Spire interconnect on a primary firm basis.

The Project’s presence as a new transportation path for gas to the greater St. Louis area will not only provide direct benefits in linking that region to prolific new supply, but will also provide critical infrastructure reliability and diversity benefits that enhance overall natural gas supply security in the region. As noted above, 87 percent of the firm pipeline transportation capacity into the St. Louis market area is currently provided by a single pipeline. The Project will significantly enhance the overall supply security of natural gas in the St. Louis area and surrounding counties by providing an additional physical source of flowing supply to the region. In the event of a planned or unplanned service outage on the current pipelines delivering into the region, LGC will be in a substantially better position to protect its system operations. Moreover, direct access to supplies from the REX pipeline system will include supply from both the Eastern United States and Rocky Mountain production areas, thus providing LGC and other Project shippers with multiple gas sourcing options and consequently enhanced supply reliability as well as economic benefits.

Moreover, a significant portion of St. Louis’ current supply source crosses an area of seismic activity referred to as the New Madrid Seismic Zone (“NMSZ”). According to the United States Geological Survey (“USGS”),⁵ the NMSZ is the most active seismic area in the United States east of the Rocky Mountains. Due to the geologic conditions in the NMSZ, earthquakes in that region have the potential to damage an area approximately 20 times larger than earthquakes in California and most other active seismic areas.

Given concerns about the potential for extended service interruptions, and the potentially devastating impacts of such service interruptions and loss of access to critical gas supplies to its service area in the event of such an incident, LGC has sought to diversify its pipeline transportation service paths and contract with an additional

⁴ See, e.g., *Rockies Express Pipeline LLC*, 154 FERC ¶ 61,139 (2016) (authorization of Zone 3 Capacity Enhancement Project); *Rockies Express Pipeline LLC*, 150 FERC ¶ 61,161 (2015), *reh’g denied*, 155 FERC ¶ 61,018 (2016) (authorization of Zone 3 East-to-West Project).

⁵ Earthquake Hazard in the New Madrid Seismic Zone Remains a Concern. <http://pubs.usgs.gov/fs/2009/3071/pdf/F509-3071.pdf>. That publication reported that, based on its review of earthquake data in the region, the USGS estimated that the chance of having an earthquake as powerful as the historic 1811-12 earthquakes (measured at magnitude 7-8) was “about 7 to 10 percent, and the chance of having a magnitude 6 or larger earthquake in 50 years is 25 to 40 percent.”



pipeline transporter whose geographic path to LGC's system avoids the seismic concerns associated with the NMSZ. The Project fulfills this need.

An additional purpose of the Project for the Foundation Shipper is its ability, through the introduction of a new firm source of flowing gas supply to the St. Louis area, to reduce or even eliminate LGC's current dependence on propane for peak shaving. Approximately 0.9 billion cubic feet of natural gas equivalent of propane is currently stored in LGC's propane underground storage facility for potential vaporization in winter months. As noted above, LGC currently relies on propane injection to meet its system needs on the coldest days of the year. LGC's propane facilities are aging, and the use of propane is increasingly difficult from an operational standpoint given that the propane-enriched gas is not compatible with certain uses of gas, such as compressed natural gas for vehicular and other end use applications. In addition, firm transportation of propane to the St. Louis market is limited; only a single pipeline delivers propane to St. Louis and the firm capacity on that pipeline is fully committed to shippers other than LGC, making it increasingly difficult to acquire large quantities of propane on a timely basis (e.g., during an emergency like severe sustained cold weather). Thus, the Project will fulfill LGC's need to reduce reliance on, and ultimately replace, this propane peak shaving operation with greater access to firm supplies of natural gas that are available even on the coldest days of the year.

1.1.1.2 Other Purposes and Needs to be Served by the Project

One purpose of the Project is to provide natural gas transportation infrastructure to support potential growth in demand for natural gas in the industrial and power generation sectors. As projected by EIA, the demand for natural gas is expected to rise steadily over the next several decades, and particularly so in the electric power sector. As EIA recently reported, these increases are spurred by environmental benefits of natural gas versus coal in electric generation. After experiencing significant increases in demand in recent years, EIA predicts a temporary leveling off of demand as both the price of natural gas and use of renewable energy sources increase. This trend, however, is expected to reverse:

Throughout the 2020s and 2030s, electricity generation using natural gas increases again. Because natural gas-fired electricity generation produces fewer carbon dioxide emissions than coal-fired generation, natural gas is expected to play a large role in compliance with the Clean Power Plan for existing generation from fossil fuels, which takes effect in 2022. The electric power sector's total consumption of natural gas from 2020 through 2030 is 6 Tcf greater in the AEO2016 [Annual Energy Outlook 2016] Reference case than in a case where the Clean Power Plan is not implemented (No CPP).⁶

Although the Clean Power Plan is an anticipated driver of the growth in demand for natural gas for electric generation, EIA still predicts steady growth for that sector's natural gas demand even without the Clean Power

⁶ United States EIA, "Industrial and electric power sectors drive projected growth in natural gas use" (May 26, 2016).



Plan. Missouri remains heavily dependent upon coal-fired power generation.⁷ Based on the above discussion, it can be expected that gas-fired generation will increasingly replace coal-fired generation in Missouri.

The environmental advantages of natural gas compared to other fossil fuels offer other important benefits for the region to be served by the Project. On July 1, 2016, the United States Environmental Protection Agency released its 2010 National Ambient Air Quality Standard final designations, which identified Alton Township, Illinois as one of four nonattainment areas for sulfur dioxide in the nation.⁸ The Project will offer the opportunity for energy conversion from more environmentally impactful fuel sources to cleaner-burning natural gas, potentially resulting in significant environmental benefits to the region.

1.1.2 Location and Description of Facilities

Construction of the Project is proposed in Scott, Greene, and Jersey Counties, Illinois, and St. Charles and St. Louis Counties, Missouri, and includes approximately 65 miles of pipeline and associated ancillary facilities.

1.1.2.1 Pipeline Facilities

A summary of the proposed pipeline facilities is presented in Table 1.1-1.

Table 1.1-1. Pipeline Facilities Associated with the Project

Facility Name	Pipeline Diameter (inch) and Type	Mileposts (“MPs”) ¹	County, State	Approximate Length (miles)
24-Inch Pipeline	24, New	0.0 - 3.5	Scott, Illinois	3.5
		3.5 - 29.0	Greene, Illinois	25.5
		29.0 - 44.9	Jersey, Illinois	15.9
		44.9 - 57.4	St. Charles, Missouri	12.5
		57.4 - 57.9	St. Louis, Missouri	0.6
Subtotal²				57.9
Line 880 ³	20, Existing	0.0 - 7.1	St. Louis, Missouri	7.1
Total²				65.0

Notes:

- ¹ MP designations begin at 0.0 for each pipeline facility and are described geographically from north to south for the 24-inch pipeline and west to east for Line 880.
- ² May not equal the sum of the column due to rounding.
- ³ Only portions of the existing 7.1-mile pipeline will be modified or relocated.

⁷ See United States EIA, Missouri State Energy Profile (noting that “Coal fueled 83 percent of Missouri’s net electricity generation in 2014 and 78 percent in 2015”).

⁸ SNL Financial, “EPA says parts of Illinois, Maryland and Michigan miss 2010 SO2 NAAQS,” (July 1, 2016).



24-Inch Pipeline

The proposed 24-inch pipeline includes approximately 57.9 miles of 24-inch diameter steel pipeline and will deliver gas from the REX pipeline in Scott County, Illinois, to the existing Line 880 pipeline in St. Louis County, Missouri. The proposed 24-inch pipeline will be designed for a maximum allowable operating pressure (“MAOP”) of 1,480 pounds per square inch gauge (“psig”). The pipeline generally runs from north to south with approximately 3.5 miles in Scott County, Illinois, 25.5 miles in Greene County, Illinois, 15.9 miles in Jersey County, Illinois, 12.5 miles in St. Charles County, Missouri, and 0.6-mile in St. Louis County, Missouri. Spire proposes that the 24-inch pipeline will cross the Mississippi River and Missouri River via two horizontal directional drills (“HDDs”).

Line 880 Modifications

Line 880 is currently an existing 9-mile natural gas distribution pipeline owned by LGC. Spire intends to purchase the eastern 7.1 miles of this pipeline and modify it for interstate service as part of this Project. The remaining 1.9 miles will remain within LGC’s distribution service. The proposed modifications to the existing 20-inch diameter steel pipeline, Line 880, include upgrades in certain locations along approximately 7.1 miles of pipeline. The pipeline generally runs from west to east, and connects the proposed 24-inch pipeline to Enable MRT along the western bank of the Mississippi river in St. Louis County, Missouri. The modifications are anticipated at 34 locations along 7.1 miles of this existing pipeline and will include (a) the removal of syphon drips and mainline valves (“MLVs”) and replace with line pipe, and (b) the relocation of a portion of the existing pipeline. Once the modifications have been completed, the existing line will be hydrostatically tested. No change in MAOP of Line 880 is presently anticipated. The MAOP of Line 880 is currently approximately 880 psig. A list of the proposed modification sites and associated workspaces is included as Table 1.1-2. Other temporary workspace (“TWS”) will be required in certain locations in order to access each modification site.

Table 1.1-2. Line 880 Modifications and Required Workspaces¹

Approximate MP	Size of TWS for Construction (acres)	Description of Proposed Modification
0.2	0.10	Removal of syphons and replace with line pipe
0.3	0.08	Removal of syphons and replace with line pipe
0.4	0.07	Removal of syphons and replace with line pipe
0.4	0.07	Removal of syphons and replace with line pipe
0.5	0.13	Remove 16-inch valve and associated appurtenances; replace with line pipe
0.6	0.09	Disconnect and cap service tap before hydrotest of Line 880; reconnect prior to putting Line 880 back in service



Table 1.1-2. Line 880 Modifications and Required Workspaces¹ (Continued)

Approximate MP	Size of TWS for Construction (acres)	Description of Proposed Modification
0.7	0.08	Removal of syphons and replace with line pipe
0.8	0.08	Removal of syphons and replace with line pipe
1.0	0.06	Disconnect and cap service tap before hydrotest of Line 880; reconnect prior to putting Line 880 back in service
1.0	0.07	Removal of syphons and replace with line pipe
1.1	0.08	Disconnect and cap service tap before hydrotest of Line 880; reconnect prior to putting Line 880 back in service
1.2	0.08	Removal of syphons and replace with line pipe
1.3	0.07	Disconnect and cap service tap before hydrotest of Line 880; reconnect prior to putting Line 880 back in service
1.4	0.08	Removal of syphons and replace with line pipe
1.4	0.11	Remove 16-inch valve and associated appurtenances; replace with line pipe
1.4	0.04	Disconnect and cap service tap before hydrotest of Line 880; reconnect prior to putting Line 880 back in service
1.5	0.05	Disconnect and cap service tap before hydrotest of Line 880; reconnect prior to putting Line 880 back in service
1.5	0.05	Disconnect and cap service tap before hydrotest of Line 880; reconnect prior to putting Line 880 back in service
1.7	0.07	Removal of syphons and replace with line pipe
1.8	0.07	Disconnect and cap service tap before hydrotest of Line 880; reconnect prior to putting Line 880 back in service
1.9	0.07	Removal of syphons and replace with line pipe
2.0	1.03	Remove 16-inch valve and associated appurtenances; replace with line pipe
2.1 - 2.6	6.52	Relocate Line 880, remove existing pipe bridge crossing of Coldwater Creek and existing crossings of State Highway 367/Lewis and Clark Boulevard, and install MLV ²
2.6	0.08	Disconnect and cap service tap before hydrotest of Line 880; reconnect prior to putting Line 880 back in service
2.7	0.09	Disconnect and cap service tap before hydrotest of Line 880; reconnect prior to putting Line 880 back in service
2.7	0.07	Removal of syphons and replace with line pipe
2.9	0.07	Disconnect and cap service tap before hydrotest of Line 880; reconnect prior to putting Line 880 back in service



Table 1.1-2. Line 880 Modifications and Required Workspaces¹ (Continued)

Approximate MP	Size of TWS for Construction (acres)	Description of Proposed Modification
2.9	0.07	Removal of syphons and replace with line pipe
3.3	0.09	Removal of syphons and replace with line pipe
3.4	0.11	Remove 16-inch valve and associated appurtenances; replace with line pipe
4.3	0.17	Remove 16-inch valve and associated appurtenances; replace with line pipe
5.4	1.07	Replace existing Line 880 with 20-inch valve (within in Redman Delivery Station)
6.3	0.11	Remove 16-inch valve and associated appurtenances; replace with line pipe
7.0 - 7.1	4.31	Remove 16-inch valve and associated appurtenances; replace with line pipe(within MRT Bi-Directional Station)

Notes:

- ¹ Workspaces listed are not inclusive of TWS to be utilized as travel corridors between modification sites.
- ² Workspace for the relocation includes additional TWS (“ATWS”) as necessary for the bore crossing of State Highway 367/Lewis and Clark Boulevard.

Line 880 will be relocated at Coldwater Creek and State Highway 367 (MP 2.1 - MP 2.6). The existing pipeline below ground approaching Coldwater Creek will be cut, capped, and abandoned in place, and the existing aboveground pipeline will be removed. The existing easement will be abandoned and the right-of-way restored.

Cathodic Protection

An impressed current cathodic protection system with remote groundbeds is currently being considered for the 24-inch pipeline. Field investigations will be conducted to determine the locations for the proposed cathodic protection system. Spire anticipates that five remote groundbeds will be required. Locations of the remote groundbeds will be identified in the FERC application. Estimated impacts for these facilities are included in Table 1.2-1.

Spire also proposes to implement an AC mitigation system in areas where the pipeline parallels high-voltage electric transmission lines as necessary to reduce stray current, to prevent possible shock to personnel during post-construction activities, and to prevent interference with the cathodic protection system. It is anticipated that this system will be primarily composed of zinc ribbon, grounding mat, and solid state decouplers, or other suitable design. AC mitigation systems will be within the permanent easement.

Proposed locations of cathodic protection and AC mitigation areas along the pipeline will be provided in Table 1.1-3 in the FERC application. Spire will seek the appropriate approvals from landowners and FERC for cathodic protection areas located outside the permanent easement.



Line 880 is currently cathodically protected. These existing protection facilities will be repaired or modified as necessary in the locations where construction will occur.

Table 1.1-3. Cathodic Protection Areas along the Project

Facility Name	County, State	Township/Town	Nearest MP
24-Inch Pipeline			
Remote Groundbed 1	TBD	TBD	TBD
Remote Groundbed 2	TBD	TBD	TBD
Remote Groundbed 3	TBD	TBD	TBD
Remote Groundbed 4	TBD	TBD	TBD
Remote Groundbed 5	TBD	TBD	TBD
AC Mitigation	TBD	TBD	TBD

Note:

¹ TBD - to be determined.

1.1.2.2 Aboveground Facilities

No major aboveground facilities are proposed for the Project. Ancillary aboveground facilities on the proposed 24-inch pipeline and Line 880 include M&R stations, pig launchers/receivers, and MLVs, as described below and further detailed in Table 1.1-4.

M&R Facilities

M&R stations typically include a fenced control building and a permanent access road. They also include a supply line and a discharge line from the associated pipeline, an emergency bypass line, and communication equipment for supervisory control. The stations proposed to be constructed and/or modified as part of the Project include:

- REX Receipt Station: The new M&R station is proposed to be located at the start of the proposed 24-inch pipeline in Scott County, Illinois, at the interconnect with the REX pipeline and will include M&R, odorization, and the installation of a pig launcher.
- Laclede/Lange Delivery Station: The new M&R station is proposed in St. Louis County, Missouri, at the interconnect with Line 880. The facility will include M&R, odorization, heater, and the installation of a pig receiver and bi-directional pig launcher/receiver.
- Redman Delivery Station: Modification of LGC’s existing Redman Station on Line 880 in St. Louis County, Missouri. Modifications to the station will include M&R, odorization, and the installation of a MLV. All work will be done within the existing fenced facility, where the existing building and aboveground piping will be removed and replaced.



- **MRT Bi-directional Station:** This new M&R station is proposed to be located at the eastern terminus of Line 880 in St. Louis County, Missouri, at the interconnect with Enable MRT. There is an existing facility at the site which will be expanded to accommodate the facilities for this Project. The station will include the construction of a new M&R facility and installation of a bi-directional pig launcher/receiver.

Table 1.1-4. Aboveground Facilities Associated with the Project

Facility Name	Approximate MP	County, State	Description
24-Inch Pipeline			
REX Receipt Station	0.0	Scott, Illinois	Construction of a new M&R facility at the interconnect with the REX pipeline.
MLV 1	15.7	Greene, Illinois	Located within the proposed permanent easement.
MLV 2	33.0	Jersey, Illinois	Located within the proposed permanent easement.
MLV 3	46.1	St. Charles, Missouri	Located within the proposed permanent easement.
Laclede/Lange Delivery Station	57.9	St. Louis, Missouri	Construction of a new M&R facility at the interconnect between the proposed 24-inch pipeline and Line 880.
Line 880			
Coldwater Creek MLV Site	2.5	St. Louis, Missouri	Located within public right-of-way at the Line 880 relocation.
Redman MLV Site	5.5	St. Louis, Missouri	Located within Redman Delivery Station.
Redman Delivery Station	5.5	St. Louis, Missouri	Install M&R equipment at the existing LGC Redman Facility on Line 880.
MRT Bi-directional Station	7.1	St. Louis, Missouri	Expand LGC's existing facility and install M&R equipment at the interconnect with Enable MRT.

Mainline Valves

Spire also proposes to construct MLVs at three locations along the proposed 24-inch pipeline route, with spacing of the MLV facilities meeting the requirements of the United States Department of Transportation (“USDOT”) Pipeline and Hazardous Materials Safety Administration (“PHMSA”). MLVs allow the associated pipeline to be segmented for safety, operations, and maintenance purposes. They are typically sited away from populated areas to allow for safe and rapid gas evacuation if needed. Spire proposes to install two MLVs along Line 880, one of which will be located within the Redman Delivery Station. Proposed MLVs and other ancillary facility locations are provided in Table 1.1-4.



1.1.3 Location Maps, Detailed Route Maps, and Plot/Site Plans

An overview of the Project is shown in Figure 1.1-1. Topographic mapping depicting the proposed Project area is provided in Appendix 1-A. The proposed Project footprint for the pipelines are further detailed in the Construction Alignment Sheets provided in Appendix 1-B. Detailed right-of-way cross-section drawings are provided in Resource Report 8.

1.2 Land Requirements

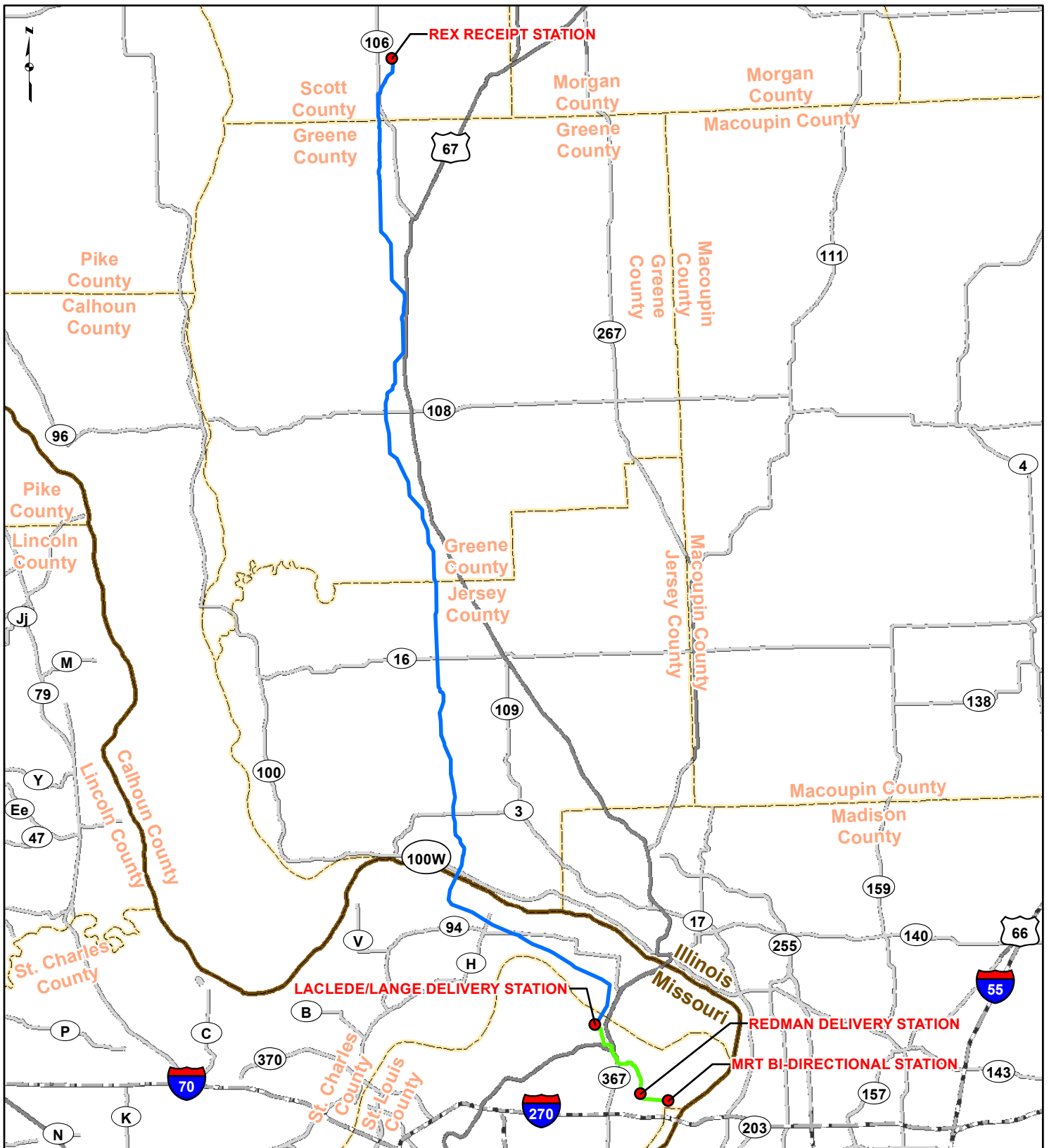
Land requirements will include both temporary and permanent impacts. Temporarily impacted areas will consist of those areas necessary to facilitate construction including the construction right-of-way, ATWS, contractor yards, and temporary access roads. Permanent impact areas will include the new permanent easement associated with the proposed 24-inch pipeline and cathodic protection, new M&R stations, associated ancillary facilities, and new permanent access roads.

The construction right-of-way (including TWS), permanent easement, and ATWS], aboveground facilities, temporary and permanent access roads, and contractor yards (to the extent these areas have been identified) will total approximately 900 acres. Of this, approximately 362 acres will be permanently maintained for operation of the Project facilities. Tables 1.2-1 and 1.2-2 include a summary of all Project related land requirements that will be affected by the construction and operation of the Project. Land requirements for the proposed facilities are discussed in greater detail in Sections 1.2.1 through 1.2.6.

1.2.1 Pipeline Facilities

For the proposed 24-inch pipeline, Spire anticipates a typical 90-foot temporary construction right-of-way width, which will include a 50-foot permanent easement. An additional 25 feet of ATWS will be required through agricultural areas, and ATWS will be required to facilitate construction in certain areas, such as crossings of roads, railroads, waterbodies, and wetlands. The construction right-of-way will be reduced to 75 feet at waterbodies and wetlands. Spire does not anticipate clearing land between the HDD entry and exit points for the proposed crossings of the Mississippi and Missouri Rivers. Further information on the HDD are described in Resource Report 2 and Resource Report 8.

In general, the existing easement on Line 880 ranges from approximately five feet wide to approximately 30 feet wide. Some portions of Line 880 are also within public right-of-way. The modifications on Line 880 will require TWS at 34 locations along the existing pipeline, with ATWS included as necessary for construction. TWS is also included for access and travel lanes between modification sites. Depending on the site conditions and modifications required, the workspaces range from less than a tenth of an acre to over six acres in size. For the relocation of Line 880 at State Highway 367/Lewis and Clark Boulevard, the new section of pipeline is within public right-of-ways and Spire does not anticipate acquiring a permanent easement at this location. Construction activities will occur within the existing permanent easement, temporary right-of-way, and ATWS as needed. Locations of these modifications and workspaces are provided on the Construction Alignment Sheets in Appendix 1-B.



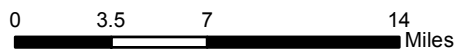
PROJECT LOCATION



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

LEGEND

- PROPOSED FACILITIES
- LINE 880 MODIFICATIONS
- 24-INCH PIPELINE
- STATE ROAD
- INTERSTATE ROAD
- U.S. HIGHWAY
- COUNTY BOUNDARY
- STATE BOUNDARY



**FIGURE 1.1-1
PROJECT OVERVIEW MAP**



Spire STL Pipeline spire

DRAWN BY: PMH
CHECKED: SWW

DATE: 10/3/2016
APPROVED: LMF

REFERENCE: ROAD, US CENSUS BUREAU, 2015.



Table 1.2-1. Land Requirements for Pipeline Facilities

Facility	County, State¹	Land Affected During Construction (acres)^{2, 3}	Land Affected During Operation (acres)⁴
Pipeline			
24-Inch Pipeline	Scott, Illinois	37.54	21.01
	Greene, Illinois	276.66	154.45
	Jersey, Illinois	171.17	96.08
	St. Charles, Missouri	130.71	75.77
	St. Louis, Missouri	5.32	3.62
Line 880	St. Louis, Missouri	7.43	0.17
Subtotals		628.84	351.10
ATWS			
24-Inch Pipeline	Scott, Illinois	11.60	0.00
	Greene, Illinois	78.26	0.00
	Jersey, Illinois	46.65	0.00
	St. Charles, Missouri	55.40	0.00
	St. Louis, Missouri	1.46	0.00
Line 880	St. Louis, Missouri	3.15	0.00
Subtotals		196.52	0.00
Cathodic Protection			
Cathodic Protection	TBD	2.87	2.87
Access Roads			
Temporary Access Roads	Scott, Illinois	0.73	0.00
	Greene, Illinois	4.65	0.00
	Jersey, Illinois	4.86	0.00
	St. Charles, Missouri	3.60	0.00
	St. Louis, Missouri	2.73	0.00
Permanent Access Roads	Scott, Illinois	0.15	0.15
	Greene, Illinois	0.00	0.00



Table 1.2-1. Land Requirements for Pipeline Facilities (Continued)

Facility	County, State ¹	Land Affected During Construction (acres) ^{2,3}	Land Affected During Operation (acres) ⁴
Access Roads			
Permanent Access Roads (continued)	Jersey, Illinois	0.00	0.00
	St. Charles, Missouri	0.00	0.00
	St. Louis, Missouri	0.00	0.00
Subtotals		16.72	0.15
Contractor Yards	Madison, Illinois	38.14	0.00
	St. Charles, Missouri	6.53	0.00
Subtotals		64.26	3.02
Totals		889.62	354.12

Notes:

- ¹ TBD - to be determined.
- ² Construction workspace through field delineated and desktop waterbodies and wetlands has been reduced to 75 feet as required and where practicable. However, reduced areas will continue to be refined based on field delineations, which may affect the overall construction workspace acreage calculations.
- ³ Land affected during construction is inclusive of operational impacts (permanent).
- ⁴ Acreage for Line 880 is inclusive of portions of the existing easement.

A summary of the proposed land requirements for the pipeline facilities is provided in Table 1.2-1. Typical construction right-of-way cross-section diagrams, locations where the pipelines are co-located with existing right-of-ways, and further land use requirements are included in Resource Report 8.

1.2.2 ATWS

ATWS areas typically are required at road, railroad, waterbody and wetland crossing locations and for areas requiring specialized construction techniques, including agricultural land. The configurations and sizes of ATWS areas will be based on site-specific conditions and vary in accordance with the construction methodology, crossing type, and other construction needs. Spire has identified areas where ATWS will be required to facilitate construction, as shown on the Construction Alignment Sheets in Appendix 1-B. ATWS requirements are summarized in Table 1.2-1. A complete list of ATWS locations by MP is provided in Resource Report 8.



1.2.3 Aboveground Facilities

Spire is in the process of designing aboveground facilities, including M&R stations, pig launcher/receivers, and MLV sites. In advance of final facility design, Spire has provided estimates of the anticipated land requirements for the construction and operation of each facility. A summary of these estimated land requirements for the aboveground facilities is provided in Table 1.2-2. Should Spire further refine the site designs, actual facility acreage data will be quantified once the engineering design effort is complete and will be provided with the FERC application.

Table 1.2-2. Land Requirements for Aboveground Facilities

Facility	County, State	Property Size (acres)	Land Affected During Construction (acres) ²	Land Affected During Operation (acres) ²
24-Inch Pipeline				
REX Receipt Station	Scott, Illinois	37.17	2.93	2.18
Laclede/Lange Delivery Station	St. Louis, Missouri	16.81	2.39	1.68
MLV 1	Greene, Illinois	N/A	N/A	N/A
MLV 2	Jersey, Illinois	N/A	N/A	N/A
MLV 3	St. Charles, Missouri	N/A	N/A	N/A
Line 880				
Redman Delivery Station	St. Louis, Missouri	0.71	1.07	0.71 ³
MRT Bi-directional Station	St. Louis, Missouri	8.42	4.31	3.24 ³
Coldwater Creek MLV Site	St. Louis, Missouri	N/A	N/A	N/A
Redman MLV Site	St. Louis, Missouri	N/A	N/A	N/A
Totals		63.10	10.70	7.81

Notes:

- ¹ N/A - not applicable.
- ² MLVs are located within the permanent easement, with the exception of one MLV on Line 880 which is located within Redman Delivery Station. The construction and operation acreage is accounted for within Table 1.2-1 and the Redman Delivery Station, respectively.
- ³ LGC owns the land to be used during operation of the Redman Delivery Station and MRT Bi-directional Station. No new property will be acquired at these locations.



1.2.4 Mainline Valves

Spire proposes that MLVs will generally be installed and operated within the proposed permanent easement associated with the 24-inch pipeline segment. Each MLV will consist of a 50-foot by 60-foot graveled area and will be fenced within the permanent easement. Spire has located MLVs near existing public roads, and permanent access roads to these sites will be included in the FERC application. Two MLVs are proposed on Line 880. One is located within the proposed permanent easement for Line 880 at the relocation at Coldwater Creek, and the second is located within the Redman Delivery Station.

1.2.5 Access Roads

Spire proposes to use and/or modify existing access roads as well as develop new access roads to access the Project during construction and operation, as shown on the construction alignment sheets in Appendix 1-B. Public roads will be used to access the right-of-way where possible. To prevent sediment from tracking onto public roads by construction traffic, Spire will adhere to the recommended best management practices as specified by the applicable state and county agencies. Such best management practices typically include installation of stabilized construction entrances and additional erosion and sediment controls (“E&SCs”) as required at locations where vehicles will access a public road from the construction right-of-way. Following construction, Spire will return public roads utilized for access to pre-construction conditions or better. Spire has identified approximately 5.5 miles of access roads for use during construction, with an anticipated width of 25 feet. Of these, approximately 5.4 miles are proposed for temporary use, and 0.1-mile will be permanently maintained for operation of the Project to provide permanent access to the REX Receipt Station. A summary of the land affected by access roads is included in Table 1.2-1. Further information on access roads is included in Resource Report 8.

1.2.6 Contractor Yards

Spire has identified potential sites to be utilized for contractor yards, as shown on the construction alignment sheets in Appendix 1-B. These areas will be used for equipment and material storage, as well as temporary field offices. At present, Spire has identified three contractor yards. Spire provides additional information regarding contractor yards associated with the Project in Resource Report 8. Site selection and acquisition will continue throughout the planning and permitting stages of the Project, and Spire will provide updates in the FERC application as appropriate. Locations and acreages of the proposed contractor yards are provided in Table 1.2-1.

1.2.7 Areas of No Access

Spire commenced notifications of affected landowners and obtaining survey permission in July 2016. Biological field surveys on properties for which Spire obtained survey access began in September 2016. Cultural resource surveys began in October 2016 in order to avoid unnecessary disruptions to crops prior to harvest. The schedule for completing field surveys will depend on the timing of obtaining survey permission on all affected parcels. The status of landowner permissions and surveys is provided in Table 1.2-3.



Table 1.2-3. Summary of Landowner Permissions and Status of Surveys

Facility/County, State	Survey Tracts with Access Granted (percent)	Survey Tracts with Access and Harvest Restrictions (percent)	Survey Tracts with Access Denied (percent)	Survey Tracts Pending Response (percent)	Percent of Pipeline with Environmental Survey Complete ¹
24-Inch Pipeline					
Scott, Illinois ²	20 (95)	0 (0)	1 (5)	0 (0)	92.1
Greene, Illinois ²	79 (59)	44 (33)	1 (1)	7 (5)	51.1
Jersey, Illinois ²	13 (16)	49 (60)	11 (14)	8 (10)	7.6
St. Charles, Missouri ²	40 (50)	25 (31)	0 (0)	15 (19)	9.9
St. Louis, Missouri ²	8 (57)	1 (7)	0 (0)	5 (36)	0.0
Line 880					
St. Louis, Missouri ²	116 (72)	0 (0)	0 (0)	46 (28)	98.2

Notes:

- ¹ Environmental (biological) survey status is current as of September 23, 2016. Cultural surveys were initiated in October.
- ² Survey permission status is current as of October 10, 2016.

1.3 Construction Procedures

The Project will be designed, constructed, and operated in compliance with applicable federal, state, and local regulations and codes. This includes, but is not limited to, the following:

- USDOT 49 CFR Part 192, Transportation of Natural and Other Gas by Pipeline: Minimum Federal Safety Standards, Including All References (6/6/2015) and standards, or portions thereof, incorporated by reference under 49 CFR 192.7 as of 7/7/15;
- Occupational Safety and Health Administration (“OSHA”) 29 CFR Part 1926;
- Illinois Commerce Commission - Gas Pipeline Safety Program;
- Illinois Gas Pipeline Safety Act [220 Illinois Compiled Statutes (“ILCS”) 20];
- Illinois Gas Transmission Facilities Act (220 ILCS 25)
- Missouri Title 4 CSR. Division 240, Chapter 40 Public Service Commission - Gas Utilities and Gas Safety Standards; and



- Missouri Department of Transportation (“MoDOT”) Engineering Policy Guide, Section 643.3: Policy, Standards and Regulations pertaining to utility facilities located on or across state highways.

The Project will also be designed, constructed, and operated in accordance with numerous applicable national specifications issued by the following organizations:

- American Association of State Highway and Transportation Officials;
- American Gas Association;
- American National Standards Institute;
- American Petroleum Institute;
- American Society of Mechanical Engineers;
- American Society of Testing Materials;
- National Association of Pipe Coating Applications; and
- National Fire Protection Association.

Spire intends to implement the FERC’s *Upland Erosion Control, Revegetation, and Maintenance Plan* (“Plan”) and FERC’s *Wetland and Waterbody Construction and Mitigation Procedures* (“Procedures”) (May 2013) as a minimum standard during construction. Where deviations from the Plan and Procedures are necessary for site-specific reasons, these locations are identified in Appendix 1-F. Should modifications to the FERC Plan and Procedures be required for adherence with the Agricultural Impact Mitigation Agreement, Spire will provide these modifications in the FERC application.

To ensure construction of the proposed facilities will comply with mitigation measures identified in the Resource Reports, the FERC’s evaluation of the Project, and the requirements of other federal and state permitting agencies, Spire will include, whenever appropriate, implementation details in its construction drawings and specifications. Selected contractors will receive copies of specifications and a construction drawing package containing, among other things, plant and equipment drawings designated as being approved for construction. To solicit accurate bids for construction, specifications and advance versions of the construction drawing package will be provided to prospective contractors. For those mitigation measures that address permit conditions from federal, state, and local agencies, copies of permits and related drawings will also be added to the construction bid package. For those mitigation measures that, in part, address post-construction requirements, instructions and documentation will be provided to operating personnel following the completion of construction.

Spire will adequately train construction personnel in the environmental restrictions and/or requirements applicable to their particular job duties. Construction management personnel and environmental inspectors (“EI”) will be provided with the appropriate environmental information/materials specific to the Project. Prior to and during construction, training for field construction personnel and contractor personnel will be conducted. This training will focus on FERC’s Plan and Procedures as well as other regulatory requirements such as endangered



species, cultural resources, and wetlands. The training will also cover Project-specific construction and mitigation plans, operator qualification and site-specific safety requirements.

Spire anticipates commencing initial construction activities in January 2018, and expects to place the pipelines and facilities into service in November 2018. Anticipated construction dates for each Project facility will be determined as the Project design is refined and further input is received from permitting agencies.

Spire plans to employ the following construction procedures; however, deviations are possible based on actual field conditions or to comply with regulatory requirements as further identified during the consultation and permitting process.

1.3.1 Pipeline

Spire will adhere to the FERC's Plan and Procedures during construction of the pipeline facilities, unless otherwise noted, in addition to its Design and Construction Standards that outlines safety and integrity standards, among others. In agricultural areas, Spire's workspaces include the 90 foot construction right-of-way and the additional 25 feet of width granted in the FERC Plan, which accommodates topsoil segregation.

In accordance with the FERC's Plan and Procedures, at least one EI will be employed by Spire for each construction spread during construction and restoration. Spire will provide training for its EIs as part of its Environmental Training Program. The number and experience of EIs assigned to each construction spread will be appropriate for the length of the construction spread and the number/significance of resources affected. EIs shall have peer status with all other activity inspectors. EIs shall have the authority to stop activities that violate the environmental conditions of the Certificate, state and federal environmental permit conditions, or landowner requirements; and to order appropriate corrective action.

Spire currently anticipates operating one spread on the proposed 24-inch pipeline and one spread on Line 880 during construction of the Project. The estimated workforce for the 24-inch pipeline spread is 200 to 300 workers, and the estimated workforce for the Line 880 spread is 100 workers.

Line 880 will be temporarily removed from service during construction. Prior to construction, Spire will coordinate with LGC to establish a temporary service for existing customers to avoid prolonged outages.

Spire will commence cleanup operations immediately following backfill operations. Final grading, topsoil replacement, and installation of permanent erosion control structures will be completed within 20 days after backfilling the trench (10 days in residential areas). If seasonal or other weather conditions prevent compliance with these timeframes, temporary erosion controls would be maintained (temporary slope breakers and sediment barriers) until conditions allow completion of cleanup.

Specific residential area mitigation measures are further described in Resource Report 8.

1.3.1.1 Typical Pipeline Construction Procedures

The procedures below will be followed for the 24-inch pipeline as well as the relocation of Line 880 at Coldwater Creek and State Highway 367/Lewis and Clark Boulevard.



Surveying

Prior to the commencement of ground disturbing activities, a civil survey crew will stake the outside limits of the construction right-of-way, the centerline location of the pipeline, highway and railroad crossings, and any ATWS, such as staging areas or at waterbody crossings. The “One Call” system for each state will be contacted and underground and foreign utilities will be located and flagged within the construction right-of-way.

Clearing and Grading

The construction right-of-way and TWS along Line 880 will be cleared of obstructions (i.e., trees and stumps, brush, logs, and large rocks) according to FERC’s Plan and Procedures and Spire’s Erosion and Sediment Control Plans. At no time will Spire or its contractor clear or alter any areas outside of the boundaries of the pipeline corridor as shown on the Project alignment sheets. Timber will be stacked adjacent to the right-of-way in accordance with landowner preferences. Brush and slash will be stacked or chipped. All stumps will be disposed of to the satisfaction of the property owner and/or Company representative in accordance with applicable law. When feasible, vegetation in wetlands will be cut to ground level, leaving the root systems intact. Where necessary, to contain disturbed soils during clearing and grading in upland areas, and to minimize potential impacts of waterbodies and wetlands, temporary erosion control devices will be installed prior to initial ground disturbance and will be maintained throughout construction.

Trenching

Trenching involves excavation of a ditch for pipeline placement, and is accomplished through the use of a track-mounted backhoe, or similar equipment. Most of the Project area is not expected to have shallow bedrock, therefore extensive blasting is not anticipated to be needed for construction. Large stones in the trench will be broken apart with conventional rock-trenching methods. Spire is in the process of identifying specific locations where blasting is anticipated. Further discussion is provided in Resource Report 6. Generally, the trench will be excavated at least 12 inches wider than the diameter of the pipe, though the width may increase depending on the stability of the native soils. The trench will be excavated to a sufficient depth to allow a minimum of three feet of soil cover between the top of the pipe and the final land surface after backfilling. Pipeline cover may be greater than three feet at road, waterbody, wetland, or railroad crossings, and in agricultural areas. Per 49 CFR Part 192, depth of cover will be a minimum of two feet in areas of consolidated rock. Excavated soils will typically be stockpiled along the right-of-way on the side of the trench away from the construction traffic and pipe assembly area. Table 1.3-1 includes minimum specifications for depth of cover.

Stringing

Following preparation of the trench, the new pipe will be strung and distributed along the construction right-of-way parallel to the trench. Depending on available workspace, steel pipe will be procured in nominal double random and/or triple random lengths, or joints, and may be fabricated off-site and transported to the right-of-way in differing lengths or configurations. The individual joints will be transported to the right-of-way by truck and placed along the excavated trench in a single, continuous line. At waterbody crossings, the amount of pipe required to span the waterbody will be stockpiled in ATWS on one or both banks of the waterbody.



Table 1.3-1. Minimum Specifications for Depth of Cover

Location	Normal Soil (inches)	Consolidated Rock (inches)
USDOT PHMSA Class 1 ¹	36	24
USDOT PHMSA Classes 2, 3, and 4 ¹	36	24
Land in Agriculture	60	24
Drainage Ditches of Public Roads or Railroad Crossings	36	24
Navigable River, Stream, or Harbor	60	24
Minor Stream Crossings	60	24

Note:

¹ As defined by USDOT PHMSA at 49 CFR 192.5:

Class 1: Offshore areas and any class location unit with 10 or fewer buildings intended for human occupancy.

Class 2: Any class location unit with more than 10 but fewer than 46 buildings intended for human occupancy.

Class 3: Any class location unit with 46 or more buildings intended for human occupancy or areas within 100 yards of either a building or a small, well defined outside area (such as a playground, recreation area, outdoor theater, or other place of public assembly) that is occupied by 20 or more persons on at least five days a week for 10 weeks in any 12-month period. The days and weeks need not be consecutive.

Class 4: Any class location unit where buildings with four or more stories are prevalent.

Pipe Bending

Some induction bends may be used, and some bending of the pipe will be required to allow the pipeline to follow natural grade changes and direction changes of the construction right-of-way. Prior to welding, selected joints will be bent in the field by track-mounted hydraulic bending machines.

Pipe Assembly and Welding

Following stringing and bending, the joints of pipe will be placed on temporary supports, adjacent to the trench. The ends will be carefully aligned and welded together using multiple passes for a full penetration weld. Welders and welding procedures will be qualified according to the applicable standards. To ensure that the assembled pipe will meet or exceed the design strength requirements, the completed welds will be visually inspected and tested for integrity using non-destructive examination methods such as radiography or ultrasound, in accordance with American Petroleum Institute standards. Welds displaying unacceptable slag inclusions, void spaces, or other



defects will be repaired or cut and re-welded. Following welding, the joints will be epoxy coated. The coating on the completed pipe section will be inspected and any damaged areas will be repaired.

Pipe Lowering

Prior to lowering the pipe, the trench will be inspected to ensure that it is free of rocks or other debris that could damage the pipe or the coating. In rocky areas, a layer of soil or sand may be placed on the bottom of the trench to protect the pipe. Concrete-coated pipe or concrete weights will be used if required for negative buoyancy in areas of saturated soils. The completed section of pipe will be lowered into the trench by side-boom tractors or equivalent equipment.

Padding and Backfilling

Previously excavated materials will be pushed back into the trench using bladed equipment or backhoes. The coated pipe, with or without the use of protective products (e.g., rockshield), requires a minimum of six inches of clean backfill padding around all sides of the pipe. A padding bucket or similar soil sifting device will be used to obtain suitable padding material from the subsoil. Topsoil will not be used as padding material.

Where the previously excavated material contains large rocks or other materials that could damage the pipe or coating, clean fill or protective coating will be placed around the pipe prior to backfilling. Segregated topsoil, where applicable, will be placed after backfilling the trench above the subsoil. Following backfilling in agricultural land, grassland, and open land, or in specified areas, a small crown may be left to account for any future soil settling that may occur. Excess soil will be distributed evenly on the right-of-way, only in upland areas, while maintaining existing contours and will be in accordance with landowner and agency requirements.

Hydrostatic Test and Final Tie-In

Both pipeline facilities will be hydrostatically tested to ensure that it is capable of safely operating at the design pressure. Test segments of the pipeline will be capped and filled with water and pressurized to a minimum of 1.25 to 1.5 times (based on location class) the designed operating pressure for a minimum of eight hours in accordance with the PHMSA requirements prior to being placed in service. Loss of pressure that cannot be attributed to other factors, such as temperature changes, will be investigated. Leaks detected will be repaired and the segment will be retested. Upon completion of the test, the water may be pumped to the next segment for testing or the water may be discharged in accordance with state permitting requirements. Test water for the 24-inch pipeline hydrostatic test will be discharged through an energy-dissipating device in compliance with National Pollutant Discharge Elimination System ("NPDES") permit conditions. For Line 880, Spire proposes to haul water offsite to an appropriate disposal facility. Once a segment of pipe has been successfully tested and dried, the test cap and manifold will be removed, and the pipe will be connected to the remainder of the pipeline. Further information on hydrostatic testing is provided with Resource Report 2.

Cleanup and Restoration

Spire will adhere to the restoration guidelines as described in the FERC's Plan and Procedures and applicable permit authorizations. The surface of the construction right-of-way disturbed by construction will be graded to match original contours and to be compatible with surrounding drainage patterns, except at those locations where



permanent changes in drainage will be required to prevent erosion, scour and possible exposure of the pipeline. Temporary and permanent E&SC measures, including silt fencing, water bars, and vegetation will be installed at that time. Private and public property, such as fences, gates, driveways, and roads that have been disturbed by pipeline construction will be restored at minimum, to a level meeting their pre-construction condition and function. In most upland locations, excluding actively cultivated cropland, an herbaceous vegetative cover will be reestablished by spreading a grass seed and hydro/straw-mulch mixture over the disturbed surface.

Further discussion on post-construction revegetation is provided in Resource Report 7.

1.3.1.2 Special Construction Procedures

Line 880 Construction Procedures

There are fixtures currently on Line 880 that either constrict the pipe diameter or have features that prohibit a pig to pass. In order to remove these fixtures, Spire proposes to excavate over the existing pipeline to expose the fitting. Topsoil will be separated during excavations. Spire will visually inspect the fitting and surrounding pipe, and cut and remove a section of pipe as appropriate, which may range from 10 to 20 feet. A replacement section of line pipe will be cut off site and delivered to the site for installation. The pipe will be lowered into the trench and welded to the existing pipeline. The trench will be backfilled and topsoil replaced appropriately. The surface type at each site varies; the surface will be restored to pre-construction conditions.

Spire will implement the construction procedures described in Section 1.3.1.1 for the portion of Line 880 that will be relocated.

Steep Slopes

Spire does not anticipate significant areas of steep slope due to the topography of the Project area. Steep slopes may be encountered during construction in Illinois at bluffs near the Mississippi River and stream valley slopes in Scott County. Spire has designed the pipeline route to avoid side slope construction, where possible. Additional right-of-way width may be requested in these areas. E&SC, as well as revegetation, would be performed in accordance with the Plan and Procedures and applicable permits. On steep slopes, temporary erosion control measures may require closer spacing and more frequent maintenance until permanent post-construction erosion control measures can be established. Additional surface grading may be required; in some areas of steep slope, it may be necessary to cut down the slopes and, after the pipeline is installed, return the slopes to their original contours during right-of-way restoration.

Residential Areas

Where residences are located in close proximity to the edge of the construction right-of-way, Spire will attempt to reduce construction workspace areas as practicable to minimize inconvenience to property owners. For modifications to the existing Line 880, Spire will limit the TWS required within private lands, to the extent practicable. If construction requires the temporary removal of private property features, such as gates or fences, the landowner or tenant will be notified prior to the action. The amount of open trench in residential areas will be minimized to the extent practicable (e.g., utilize stovepipe construction or other minimization technique where conditions and/or situation allow). Restoration in residential areas is to be performed in accordance with the



FERC's Plan and Procedures. Residential areas crossed by the Project are identified in Resource Report 8, along with proposed mitigation measures.

Active Croplands

In order to avoid and minimize affects to topsoil and drain tiles, Spire proposes to perform topsoil segregation in active croplands over the entire width of the construction right-of-way as well as the subsoil stockpile areas. As described in FERC's Plan, a minimum of 12 inches of topsoil will be segregated in deep soils; and the entire topsoil layer, where possible, will be segregated in soils with less than 12 inches of topsoil. It is anticipated that Spire will encounter greater than 12 inches of topsoil in Illinois, which will be determined during construction by a qualified soil scientist. The topsoil and subsoil will be temporarily stockpiled in separate windrows on the construction right-of-way. Additional workspace for topsoil segregation may be requested as necessary.

Spire will complete work in accordance with the FERC's Plan. For the portion of the Project located in Illinois, Spire will complete work in accordance with the Agricultural Impact Mitigation Agreement which will be developed in coordination with the Illinois Department of Agriculture. Per the terms of this agreement, Spire proposes five feet of cover in agricultural lands.

Spire will coordinate with land owners and local agencies, as appropriate, to identify agricultural drainage systems. Spire proposes to adhere to the FERC's Plan to avoid or minimize interference with drain tile and irrigation systems. Agricultural and related pasture areas crossed by the Project will be identified in both Resource Report 7 and Resource Report 8, along with proposed mitigation measures.

Road Crossings

The majority of road crossings will be completed using standard open cut or conventional boring methods. Conventional boring entails drilling a hole beneath travel arteries through which the pipe will pass. Generally, state and/or federal road crossings will be bored. Some local roads may be open-cut; however, Spire proposes to maintain one lane of access along with the appropriate safety signage and/or traffic control staff. Roads crossed by open trenching will be restored to pre-construction conditions or better. If an open-cut road requires extensive construction time and it is not feasible to maintain access, provisions will be made for temporary detours or other measures to allow safe traffic flow during construction. The pipeline will be buried to a depth of at least three feet below the road surface, except in areas of consolidated rock. ATWS for road crossings will be shown on the construction alignment sheets. Public roads crossed by the pipelines are included in Table 1.3-2.

Railroad Crossings

Railroad crossings will be completed using conventional boring methods. Three railroads are within the limits of the Project. The Kansas City Southern Railroad is crossed by the 24-inch pipeline in Greene County, Illinois, and will be crossed via conventional bore. The Burlington Northern Santa Fe Railroad is crossed by the 24-inch pipeline in St. Charles County, Missouri, and the pipeline crossing will be installed via conventional bore. Line 880 also crosses the Burlington Northern Santa Fe Railroad (formerly Chicago Burlington and Quincy Railroad) in St. Louis County, Missouri. No modifications are anticipated at this crossing. The depths of crossings under the railroads vary and will be specified in the permits. Spire plans to file permits with the railroads for these crossings, and the



specific requirements of each railroad company will be considered when designing and constructing the crossings. Railroad crossings are also included in Table 1.3-2.

Table 1.3-2. Roads and Railroads Crossed by the Pipelines

Facility and Approximate MP	County, State	Road or Railroad Name	Proposed Crossing Method¹
24-Inch Pipeline			
0.2	Scott, Illinois	Unknown Road	Open Cut
0.7	Scott, Illinois	County Highway 7/Manchester Alsey Road	Bore
1.9	Scott, Illinois	Havens Road	Open Cut
2.1	Scott, Illinois	State Route 106	Bore
2.5	Scott, Illinois	1200 East/Gourley Road	Open Cut
3.0	Scott, Illinois	Roodhouse Springs Road/Bluffs Spring Road	Open Cut
4.5	Greene, Illinois	2700 N	Open Cut
5.2	Greene, Illinois	Unknown Road	Open Cut
5.8	Greene, Illinois	2575 N	Open Cut
7.2	Greene, Illinois	Unknown Road	Bore
7.2	Greene, Illinois	Kansas City Southern Railroad	Bore
7.3	Greene, Illinois	2425 N	Open Cut
7.8	Greene, Illinois	2375 N	Open Cut
9.1	Greene, Illinois	County Road 10/2250 N	Bore
10.3	Greene, Illinois	Unknown Road	Open Cut
11.3	Greene, Illinois	Corsa Lane	Open Cut
13.0	Greene, Illinois	1850 N	Open Cut
13.5	Greene, Illinois	1850 N	Open Cut
15.1	Greene, Illinois	Unknown Road	Open Cut
15.6	Greene, Illinois	650 N	Open Cut
17.0	Greene, Illinois	500 N	Open Cut
18.1	Greene, Illinois	1400 N	Open Cut
19.5	Greene, Illinois	State Route 108	Bore



Table 1.3-2. Roads and Railroads Crossed by the Pipelines (Continued)

Facility and Approximate MP	County, State	Road or Railroad Name	Proposed Crossing Method¹
24-Inch Pipeline (continued)			
20.3	Greene, Illinois	1190 N	Open Cut
21.3	Greene, Illinois	Unknown Road	Open Cut
22.5	Greene, Illinois	1000 N	Open Cut
22.9	Greene, Illinois	Unknown Road	Open Cut
24.1	Greene, Illinois	850 N	Open Cut
25.8	Greene, Illinois	Unknown Road	Open Cut
26.4	Greene, Illinois	650N	Open Cut
28.0	Greene, Illinois	County Road 17/500 N	Open Cut
28.5	Greene, Illinois	Unknown Road	Open Cut
29.2	Jersey, Illinois	Allen Lane	Open Cut
31.5	Jersey, Illinois	County Highway 10/West Centennial Road	Open Cut
32.5	Jersey, Illinois	1350 N/Hollow Avenue	Open Cut
33.0	Jersey, Illinois	State Highway 16/County Road 1300 N	Bore
33.4	Jersey, Illinois	West County Road	Open Cut
35.1	Jersey, Illinois	County Road 1100 N/South Centennial Road	Open Cut
36.9	Jersey, Illinois	Busch Lane	Open Cut
37.7	Jersey, Illinois	County Highway 6/McClusky Road	Open Cut
38.3	Jersey, Illinois	Daugherty Road	Open Cut
39.8	Jersey, Illinois	Possum Trot Lane	Open Cut
41.3	Jersey, Illinois	State Highway 3	Bore
41.9	Jersey, Illinois	Croxford Road	Open Cut
43.0	Jersey, Illinois	Unknown Road	Open Cut
43.4	Jersey, Illinois	Chautauqua Road/Jersey Avenue	Open Cut
44.6	Jersey, Illinois	State Route 100	HDD
44.6	Jersey, Illinois	State Route 100	HDD
45.6	St. Charles, Missouri	Unknown Road	Open Cut
46.2	St. Charles, Missouri	Portage Road	Open Cut



Table 1.3-2. Roads and Railroads Crossed by the Pipelines (Continued)

Facility and Approximate MP	County, State	Road or Railroad Name	Proposed Crossing Method ¹
24-Inch Pipeline (continued)			
47.1	St. Charles, Missouri	Weber Lake Road	Open Cut
47.6	St. Charles, Missouri	Unknown Road	Open Cut
47.9	St. Charles, Missouri	Unknown Road	Open Cut
48.5	St. Charles, Missouri	State Highway J/Klinghammer Road	Bore
48.9	St. Charles, Missouri	Payne Road	Open Cut
49.8	St. Charles, Missouri	State Highway 94	Bore
50.4	St. Charles, Missouri	Burlington Northern Santa Fe Railroad	Bore
50.6	St. Charles, Missouri	Dwiggins Road	Open Cut
51.1	St. Charles, Missouri	Dwiggins Road	Open Cut
51.6	St. Charles, Missouri	Unknown Road	Open Cut
52.4	St. Charles, Missouri	Saale Road	Open Cut
53.6	St. Charles, Missouri	Saale Road	Open Cut
55.8	St. Charles, Missouri	Bradshaw Road	Open Cut
56.6	St. Charles, Missouri	Mintert Road	Open Cut
Line 880			
2.4	St. Louis, Missouri	State Highway 367 South/Lewis and Clark Boulevard	Bore
2.4	St. Louis, Missouri	State Highway 367 North/Lewis and Clark Boulevard	Bore

Note:

¹ TBD - to be determined.

Utility Crossings

During the design phase, Spire will use each state’s One-Call program to identify foreign line operators. Spire has planned its construction activities based on requirements provided by those operators as well as crossing methods used for prior construction projects. These methods include, but are not limited to, the use of an air bridge, adding additional fill over the existing utility, temporarily or permanently relocating or burying the utility and at times rerouting the proposed pipeline at the operator’s request. Foreign pipeline operators will be consulted regarding pipeline protection measures.



Precautions will be taken to identify existing pipelines, avoid damage, and safely cross foreign pipelines during construction, including:

- One Call will be contacted to locate known pipelines and utilities, and operators of the existing pipelines will be given adequate notice of the crossing and the opportunity to be present during work around their pipelines.
- Known existing pipelines will be precisely located prior to excavation using a hand-held magnetometer and/or by probing.
- Right-of-way edges will be scanned prior to grading with Passive Inductive Locating equipment to identify any unknown foreign pipelines.
- Mechanized excavation will not be allowed within three feet of existing pipelines; the excavations will be completed by hand shoveling.
- Existing foreign lines will be temporarily supported for the length of the span exposed by the crossing excavation.
- The pipeline trench will be excavated to provide a minimum clearance between the pipeline and the foreign line or structure as designated by officials having authority over the facilities.
- Existing pipelines will be inspected before and after installation of the Project.

In the event accidental damage occurs to a foreign pipeline during construction, appropriate measures will be implemented to minimize undesirable effects to human health and the environment. A list of existing utility lines crossed by the Project is included as Table 1.3-3. An updated table will be provided in the FERC application.

Blasting

Spire is in the process of identifying locations where blasting may be required on the Project. To minimize blasting, large stones in the trench will generally be broken apart with conventional rock-trenching methods where possible. Further discussion on blasting is included in Resource Report 6. Should blasting be required, Spire will identify locations and submit a blasting plan for FERC review and approval in the FERC application.

Table 1.3-3. Existing Utility Lines Crossed by the Pipelines

Nearest MP	Utility Type ¹	Owner ²
24-Inch Pipeline		
0.2	Overhead Line	TBD
1.0	Overhead Line	TBD
1.0	Overhead Line	TBD
1.9	Overhead Line	TBD



Table 1.3-3. Existing Utility Lines Crossed by the Pipelines (Continued)

Nearest MP	Utility Type ¹	Owner ²
24-Inch Pipeline (continued)		
2.1	Overhead Line	TBD
2.5	Overhead Line	TBD
3.0	Overhead Line	TBD
4.5	Overhead Line	TBD
5.8	Fiber Optic	AT&T
5.8	Overhead Line	TBD
6.0	Overhead Line	TBD
7.3	Overhead Line	TBD
7.8	Overhead Line	TBD
9.1	Overhead Line	TBD
9.1	Fiber Optic	General Telephone Company
10.1	Overhead Line	TBD
10.3	Overhead Line	TBD
11.3	Overhead Line	TBD
12.7	Overhead Line	TBD
13.0	Overhead Line	TBD
13.5	Overhead Line	TBD
15.1	Overhead Line	TBD
15.6	Overhead Line	TBD
13.0	Overhead Line	TBD
13.5	Overhead Line	TBD
15.1	Overhead Line	TBD
15.6	Overhead Line	TBD
16.1	Overhead Line	TBD
17.0	Overhead Line	TBD
17.0	Fiber Optic	TBD
17.8	Overhead Line	TBD



Table 1.3-3. Existing Utility Lines Crossed by the Pipelines (Continued)

Nearest MP	Utility Type ¹	Owner ²
24-Inch Pipeline (continued)		
18.1	Overhead Line	TBD
19.5	Overhead Line	TBD
21.2	Overhead Line	TBD
22.5	Overhead Line	TBD
26.4	Overhead Line	TBD
26.4	Overhead Line	TBD
28.0	Overhead Line	TBD
28.0	Overhead Line	TBD
28.5	Overhead Line	TBD
28.5	Overhead Line	TBD
28.5	Water	TBD
31.5	Overhead Line	TBD
32.5	Overhead Line	TBD
33.0	Overhead Line	TBD
33.5	Overhead Line	TBD
35.1	Overhead Line	TBD
37.0	Overhead Line	TBD
37.7	Overhead Line	TBD
39.8	Overhead Line	TBD
39.8	Fiber Optic	Frontier
41.4	Overhead Line	TBD
41.9	Water	Illinois American Water
41.9	Fiber Optic	TBD
41.9	Overhead Line	TBD
43.4	Ammonia Line	Nustar
43.4	Overhead Line	TBD
43.4	Fiber Optic	AT&T



Table 1.3-3. Existing Utility Lines Crossed by the Pipelines (Continued)

Nearest MP	Utility Type ¹	Owner ²
24-Inch Pipeline (continued)		
43.4	Fiber Optic	GTI
43.4	Natural Gas	Ameren
44.6	Fiber Optic	AT&T
44.6	Fiber Optic	AT&T
44.6	Fiber Optic	AT&T
44.6	Fiber Optic	AT&T
44.6	Natural Gas	Ameren
46.1	Overhead Line	Southwestern Bell
47.1	Overhead Line	TBD
48.5	Overhead Line	TBD
48.9	Overhead Line	TBD
48.9	Overhead Line	TBD
49.8	Water Line	SBC Global
49.8	Overhead Line	TBD
49.8	Fiber Optic	AT&T
TBD	Gasoline	Missouri Gas
TBD	Gasoline	BP
50.6	Overhead Line	TBD
50.6	Overhead Line	TBD
50.6	Overhead Line	TBD
50.6	Overhead Line	TBD
50.6	Overhead Line	TBD
51.1	Overhead Line	TBD
51.6	Overhead Line	TBD
52.4	Overhead Line	TBD
53.6	Electric	Ameren
53.6	Fiber Optic	AT&T



Table 1.3-3. Existing Utility Lines Crossed by the Pipelines (Continued)

Nearest MP	Utility Type ¹	Owner ²
24-Inch Pipeline (continued)		
53.6	Overhead Line	TBD
55.8	Overhead Line	TBD
56.6	Fiber Optic	AT&T
56.6	Overhead Line	TBD
57.9	Overhead Line	TBD
57.9	Overhead Line	TBD
Line 880		
0.9	Overhead Line	TBD
1.1	Overhead Line	TBD
1.4	Overhead Line	TBD
1.4	Overhead Line	TBD
1.8	Overhead Line	TBD
1.8	Overhead Line	TBD
2.5	Underground Electric Line	TBD
2.7	Water	TBD
5.5	Water	TBD
6.3	Fiber Optic	AT&T
6.3	Water	Missouri American Water
6.3	Overhead Line	TBD
7.0	Overhead Line	TBD

Notes:

- ¹ Foreign utilities crossed were determined through the combination of available field survey data and desktop analysis. Since survey is ongoing, desktop analysis was used in areas where survey has yet to be completed.
- ² TBD - to be determined.



Wetlands

Crossing of wetlands will be done in accordance with state and federal permits and the FERC Procedures, unless variances are requested by Spire and approved by the FERC. Saturated wetlands will be crossed utilizing timber mats to avoid rutting. Tree stumps and root systems will be removed from areas directly over the trenchline. In the absence of safety-related construction or operational constraints, stumps and root systems will be left in place in the rest of the construction right-of-way. Spire will segregate the topsoil up to one-foot in depth in wetlands where hydrologic conditions permit. Segregated topsoil will be placed in the trench following subsoil backfilling.

Hydrological conditions along the construction corridor in areas proposed for conventional open ditch construction will likely dictate the use of either conventional open ditch lay or open ditch push/pull lay methods. Selection of the most appropriate method will depend on site-specific weather conditions, inundation, soil saturation, and soil stability at the time of construction. Selection of the appropriate method will be decided during construction by the construction supervisor and/or the Spire representative depending on conditions at the time of construction. Restoration and monitoring of wetland crossings will be conducted in accordance with FERC's Procedures. In unsaturated wetlands, most vegetation will be replaced by seeding. Saturated wetlands will typically be allowed to revegetate naturally.

Waterbodies

Crossing of waterbodies will be done in accordance with state and federal permits and the FERC's Procedures, unless variances are requested by Spire and approved by the FERC. Construction methods at waterbodies will vary with the characteristics of the waterbody encountered and will be consistent with permit conditions that will be outlined in the regulatory permit approvals. Intermediate waterbodies (between 10 and 100 feet wide) and minor waterbodies (less than 10 feet wide) will be crossed by the open cut/conventional lay or dry ditch crossing methods. Dry-ditch crossing methods include dam and pump, flume, and HDD. Where a dry-ditch crossing method is not specifically required by the Procedures, the waterbody may be crossed using the open-cut crossing method. The crossing method is subject to change depending upon the actual conditions encountered at the time of construction. Crossing methods are further discussed in Resource Report 2.

Construction activities will be scheduled so that the pipeline trench is excavated immediately prior to pipe laying activities. In accordance with the FERC Procedures, the duration of construction will be limited to 24 hours across minor waterbodies and 48 hours across intermediate waterbodies, unless rock-breaking measures are required.

In waterbodies less than 100 feet wide, pipe will be installed to provide a minimum of five feet of cover from the waterbody bottom to the top of the pipeline, except in consolidated rock, where a minimum of two feet of cover will be required; in waterbodies more than 100 feet wide, pipeline depth of cover will be at least five feet with the exception of a two-foot minimum depth of cover in consolidated rock. Trench spoil will be placed on the bank above the high water mark for use as backfill. Excavated material not required for backfill will be disposed of at an upland site within the herein described limits of disturbance or otherwise disposed of at a commercial disposal facility. Waterbody banks will be returned to pre-construction grade.



Asbestos-Containing Materials

At certain tie-in locations, or where existing pipelines are present, there may be a need to remove asbestos pipe coating. At such locations, Spire will implement measures to ensure safety of on-site personnel as follows:

- Before starting work, plastic sheeting will be laid beneath the work area to catch debris. When joining sheeting, taped seams will be overlapped a minimum of 18 inches. Sheeting will be secured in place with weights.
- Workers will be required to wear personnel protective equipment as specified by the OSHA for working around asbestos-containing materials.
- Pipe coating will be wetted with water, and then pounded with hammers or scraped with razor scrapers, allowing the material to fall onto the plastic sheeting beneath the pipe. Debris will be kept wet to reduce the likelihood of releasing airborne fibers.
- When the pipe is clear of coating material, the edges of the cleaned area will be trimmed with razors, re-wet and then the surfaces will be wet wiped. Asbestos-contaminated rags will be disposed of in waste disposal bags.
- Tools will be rinsed/cleaned over a waste bag and then removed from the work area. Workers' personal protective clothing will be placed in waste bags. Waste material will be bagged and sealed, labeled as containing asbestos waste, and then disposed of in accordance with applicable regulations.

If wind or other conditions carry debris off the plastic sheeting, the following additional steps will be implemented:

- A shroud fabric will be soaked in water and draped over the pipe where the coating is to be disturbed. The shroud and pipe surfaces will be kept wet at all times.
- The pipe coating will be pounded through the shroud until it falls onto the plastic sheeting. If the shroud becomes damaged, it will be dropped onto the plastic sheeting and a new shroud used until the coating removal is completed.
- Used shrouds will be placed into waste bags and disposed of along with the other asbestos-containing debris.

Estimates of the relative amount of asbestos that would be encountered is unknown at this time. Spire anticipates that the existing gaskets on Line 880 have a high probability of containing asbestos. Should asbestos be encountered during the modifications on the existing Line 880 pipeline, Spire would implement the procedures described above to ensure worker safety, prevent the emission of airborne asbestos fibers, and comply with federal OSHA standards. Spire would dispose of non-friable asbestos-containing material pipe coatings at an approved asbestos facility.

1.3.2 Aboveground Facilities

No major aboveground facilities are proposed for this Project. The proposed aboveground facilities will be designed to be constructible in accordance with DOT 192 and ASME B 31.8 standards. The duration of construction



for the aboveground facilities is approximately four months. Spire intends to implement the FERC's Plan and FERC's Procedures as a minimum. As with the pipeline, deviations from the Plan and Procedures are discussed in Section 1.3, Construction Procedures, and listed in Appendix 1-F.

Surface areas disturbed will be restored in a timely manner. Components in high-pressure natural gas service will be tested prior to placing in service. Hydrostatic testing will follow applicable federal, state and local requirements. Launching and receiving facilities will be installed to meet the same standards and regulatory requirements established for the pipelines. MLVs will be installed within the Project's permanent easement or existing facilities at locations dictated by pipeline class and other requirements.

In addition to construction drawings and/or applicable environmental permits that are provided to the contractor(s), an EI will oversee the implementation of E&SC measures and advise the contractor in the upgrade and maintenance of the measures throughout construction.

1.4 Operation and Maintenance

Spire will operate and maintain the newly constructed pipeline facilities in accordance with the requirements of FERC, USDOT's PHMSA at 49 CFR Part 192, and industry-proven practices and techniques. The facilities will be operated and maintained in a manner such that pipeline integrity is protected to ensure that a safe, continuous supply of natural gas reaches its ultimate destination. Maintenance activities will include regularly scheduled gas-leak surveys and measures necessary to repair any potential leaks. The latter may include repair or replacement of pipe segments. All fence posts, signs, marker posts, aerial markers, and decals will be maintained to ensure that the pipeline locations will be visible from the air and ground. The pipeline and aboveground facilities will be patrolled on a routine basis, and personnel qualified to perform both emergency and routine maintenance on interstate pipeline facilities will handle maintenance.

The Project facilities will be patrolled on a periodic basis. This will provide information on possible leaks, construction activities, erosion, exposed pipe, population density, possible encroachment, and any other potential problems that may affect the safety and operation of the pipeline. Further discussion regarding inspections is included in Resource Report 11, Reliability and Safety.

Spire will operate and maintain the Project and aboveground facilities in compliance with USDOT regulations provided at 49 CFR § 192, FERC's regulations at 18 CFR § 380.15, and maintenance provisions of FERC's Plan and Procedures. The operation of these facilities upon completion of the Project is not anticipated to require the hiring of new/additional personnel.

1.4.1 Pipelines

Pipeline facilities will be maintained and inspected in accordance with applicable pipeline safety regulations. Operational activity on the pipelines will be limited primarily to maintenance of the right-of-ways and inspection, repair, and cleaning of the pipelines. Vegetation maintenance will be conducted in accordance with FERC's Plan and Procedures.



Maintenance functions will include the following:

- periodic seasonal vegetation management of the Project right-of-way in accordance with the timing restrictions outlined in the FERC's Plan and Procedures;
- terrace repair, backfill replacement, and drain tile repair as necessary;
- periodic inspection of water crossings; and
- maintenance of a supply of emergency pipe, leak repair clamps, sleeves, and other equipment needed for repair activities.

Erosion problems on the pipeline right-of-way will be reported to the local operations supervisor. These reports may originate from landowners or company personnel performing routine patrols. Corrective measures will be conducted as needed.

1.4.1.1 Vegetation Maintenance

A typical post-construction permanent easement width of 50 feet will be maintained for the 24-inch pipeline, and the existing easement will be maintained for Line 880. Maintaining a right-of-way is necessary for the following reasons:

- access for routine pipeline patrols and corrosion surveys;
- avoid pipeline damage from large roots;
- access in the event that emergency repairs of the pipeline are needed;
- visibility during aerial patrols; and
- to serve as a visual indicator to the public of an underground pipeline utility and easement.

Operational vegetation maintenance of Spire's permanent right-of-way in uplands may be conducted on a frequency of approximately once every three years to maintain an herbaceous to low scrub-shrub cover state. Spire may annually maintain a 10-foot corridor centered over the pipelines in wetlands to facilitate pipeline surveys and emergency access on an as-needed basis.

Within wetlands, Spire will only maintain the 10-foot corridor centered over the pipelines, allowing the balance of Spire's permanent easement to revert to its natural, pre-construction vegetated cover state. Additionally, within wetlands, Spire reserves the right to selectively cut and remove trees located within 15 feet of the pipeline with roots that may compromise the integrity of the pipeline coating. Spire will not use herbicides or pesticides on its right-of-way or aboveground facilities for the purpose of vegetation management unless approved by applicable regulatory agencies and landowners. No herbicides or pesticides will be used within 100 feet of a wetland or waterbody unless otherwise approved by applicable federal, state, and local agencies and directly affected landowners.

Post-construction management of the right-of-way will be conducted in accordance with FERC's Plan and Procedures and Spire's Noxious Weeds/Invasive Control and Mitigation Plan in Resource Report 3, Appendix 3-A.



Vegetation maintenance (with respect to the control of invasive plant species) as well as yearly monitoring and mitigation measures will be detailed in these plans.

Following construction of the pipeline facilities, areas used for TWS and ATWS will be allowed to revert to their pre-construction land use/land cover with no further vegetation maintenance by Spire. Additionally, crop production will be allowed to continue in agricultural areas, immediately following construction or the following growing season.

1.4.1.2 Cathodic Protection and Alternating Current Mitigation Areas

It is currently anticipated that cathodic protection of the pipeline will be conducted with impressed current systems that employ rectifier/groundbed systems. Units will be installed at various locations perpendicular to the pipeline and aboveground test stations will be installed at various locations along the pipeline to gather accurate information for potential current adjustments. The cathodic protection system will be regularly monitored to maintain required pipe-to-soil potential and will be achieved in accordance with the USDOT regulations.

In areas where the pipeline parallels high-voltage electric transmission lines, an AC mitigation system will be implemented as necessary to reduce stray current, to prevent possible shock to personnel during post-construction activities, and to prevent interference with the cathodic protection system.

Cathodic protection and AC mitigation systems are further discussed in Section 1.1.2.1, Pipeline Facilities.

1.4.2 Aboveground Facilities

Spire will operate and maintain the proposed aboveground facilities in accordance with standard procedures designed to ensure the integrity of the facilities and to provide its shippers and the general public with a safe and dependable natural gas supply. The facilities will be designed, constructed, and operated in accordance with requirements of FERC, USDOT, industry-proven practices and techniques, and other federal, state, and local requirements, as applicable.

Responsibilities of Spire will include the following:

- Safe operation and maintenance of pipeline and aboveground facilities to provide the required gas flow;
- Inspection and maintenance of the pipeline system;
- Regular monitoring of the right-of-way;
- Development and implementation of an ongoing program of safety and environmental compliance;
- Regulatory compliance maintenance inspections;
- Administration; and
- Landowner relations - all operational, environmental, and regulatory inspections will be conducted per applicable Spire Operation & Maintenance (“O&M”) procedures.

See Resource Report 11 for further discussion on safety procedures for aboveground facilities.



1.5 Future Plans and Abandonment

At present, Spire has no firm or immediate plans to expand upon the current Project. There are no current or future plans to abandon facilities as a result of this Project.

1.6 Permits and Approvals

A comprehensive list of the required permits, approvals and consultations, administering agencies, status, and agency contact information is provided as Table 1.6-1. Copies of correspondence are included in Appendix 1-C. Copies of outstanding approvals/consultations will be filed with the FERC application.

Table 1.6-1. Environmental Permits, Approvals, and Consultations

Agency or Organization	Permit/Approval	Submittal Date ¹ (Anticipated)	Receipt Date ¹ (Anticipated)
Federal			
FERC	Certificate of Public Convenience and Necessity	(January 2017)	(December 2017)
United States Fish and Wildlife Service (“USFWS”), Rock Island Field Office	Threatened and Endangered Species Consultation; Migratory Bird Treaty Act, Bald and Golden Eagle Act	June 2016	(August 2017)
USFWS, Columbia Field Office	Threatened and Endangered Species Consultation; Migratory Bird Treaty Act, Bald and Golden Eagle Act	Rock Island will be the lead USFWS office	N/A
United States Army Corps of Engineers (“USACE”), St. Louis District	Section 404, Section 10 [Nationwide Permit (“NWP”) 12]	(January 2017)	(January 2018)
	Section 408	(January 2017)	(January 2018)
	Real Estate Agreement	(January 2017)	(May 2018)
USACE, Kansas City District	Section 408	(January 2017)	(January 2018)
United States Department of Agriculture	Consultation on Lands Enrolled in Conservation Reserve Program	August 2016	(January 2017)
State-Illinois			
Illinois Department of Natural Resources (“IDNR”)	Statewide Permits #6 and #8	No separate submittal required if general conditions are met.	
	State Species Consultation	June 2016	(August 2017)
Illinois Environmental Protection Agency	401 Water Quality Certification	Automatic; No separate submittal required if under NWP-12.	
	NPDES Hydrostatic Discharge Permit	(April 2017)	(November 2017)



Table 1.6-1. Environmental Permits, Approvals, and Consultations (Continued)

Agency or Organization	Permit/Approval	Submittal Date ¹ (Anticipated)	Receipt Date ¹ (Anticipated)
State-Illinois (continued)			
Illinois Environmental Protection Agency (continued)	General NPDES Permit No. ILR10	Oil and gas activities are exempt from submitting for NPDES Construction Stormwater Permit provided that FERC Plan and Procedures and State Best Management Practices are incorporated into construction activities.	
Illinois Historic Preservation Agency	Section 106, National Historic Preservation Act (“NHPA”) Clearance	June 2016	(August 2017)
Illinois Department of Agriculture	Agricultural Impact Mitigation Agreement	September 2016	(January 2017)
Illinois Department of Transportation (“IDOT”)	Utility Permit and Driveway Permit	(August 2017)	(December 2017)
Scott County Highway Department	Utility Permit and Driveway Permit	(September 2017)	(December 2017)
Greene County	Floodplain Permit	(October 2017)	(December 2017)
Greene County Highway Department	Utility Permit and Driveway Permit	(September 2017)	(December 2017)
Jersey County	Floodplain Permit and Stormwater Development Permit	(October 2017)	(December 2017)
Jersey County Highway Department	Utility Permit and Driveway Permit	(September 2017)	(December 2017)
Alsey Township	Road Crossing and Road Use Agreement	(October 2017)	(December 2017)
Roodhouse Township	Road Crossing and Road Use Agreement	(October 2017)	(December 2017)
Whitehall Township	Road Crossing and Road Use Agreement	(October 2017)	(December 2017)
Carrollton Township	Road Crossing and Road Use Agreement	(October 2017)	(December 2017)
Kane Township	Road Crossing and Road Use Agreement	(October 2017)	(December 2017)
English Township	Road Crossing and Road Use Agreement	(October 2017)	(December 2017)
Otter Creek Township	Road Crossing and Road Use Agreement	(October 2017)	(December 2017)
Elsah Township	Road Crossing and Road Use Agreement	(October 2017)	(December 2017)
City of Alton, IL	Building and Zoning Permits	(October 2017)	(December 2017)
Kansas City Southern Railroad	Utility Permit and Right of Entry Permit	(June 2017)	(December 2017)
State-Missouri			
Missouri Public Service Commission ²	Order approving sale of Line 880	(October 2016)	(March 2017)



Table 1.6-1. Environmental Permits, Approvals, and Consultations (Continued)

Agency or Organization	Permit/Approval	Submittal Date ¹ (Anticipated)	Receipt Date ¹ (Anticipated)
State-Missouri (continued)			
Missouri Department of Natural Resources (“MDNR”), St. Louis Regional Office	401 Water Quality Certification	Automatic; no separate submittal required if under NWP-12.	
	Individual 401 Water Quality Certification (crossing of Coldwater Creek)	(January 2017)	(April 2017)
	Hydrostatic Discharge Permit	(April 2017)	(May 2017)
	Water Withdrawal Registration	(April 2017)	(April 2017)
	Land Disturbance Permit	(December 2017)	(December 2017)
Missouri Department of Conservation	State listed species consultation	June 2016	(August 2017)
Missouri State Historic Preservation Office (“SHPO”)	Section 106, NHPA clearance	June 2016	(August 2017)
Consolidated North County Levee District	Letter of Endorsement	N/A	January 2017
MoDOT	Utility Permit and Driveway Permit	(August 2017)	(December 2017)
St. Louis County	Floodplain Permit and Land Disturbance Permit	(October 2017)	(December 2017)
	Building and Zoning Permits	(October 2017)	(December 2017)
St. Louis County Highway Department	Utility Permit and Driveway Permit	(September 2017)	(December 2017)
St. Charles County	Floodplain Permit and Land Disturbance Permit	(October 2017)	(December 2017)
	Building and Zoning Permits	(October 2017)	(December 2017)
St. Charles County Highway Department	Utility Permit and Driveway Permit	(September 2017)	(December 2017)
City of West Alton	Floodplain Permit and Land Use Permit	(August 2017)	(September 2017)
Burlington Northern & Santa Fe Railroad	Utility Permit and Right of Entry Permit	(June 2017)	(December 2017)

Notes:

- ¹ Submittal dates and anticipated permit receipt dates are preliminary and will be refined based on final Project scope, agency consultations, construction schedule and environmental survey completion. N/A - Not Applicable. TBD - to be determined.
- ² This authorization for transfer of Line 880 is to be obtained by LGC.



1.7 Affected Landowners/Stakeholders

Spire has developed and implemented a comprehensive Public, Stakeholder, and Agency Participation Plan that outlines a commitment to engage actively with stakeholders currently and throughout the life of the Project and identifies the following activities to be conducted by Spire to ensure successful ongoing communication with all stakeholders. These engagement activities include:

- holding Community Open Houses to provide Project information to all interested stakeholders;
- continuing to identify and hold meetings with local associations, affected public groups, and other non-governmental organizations (“NGOs”) concerning the Project;
- continuing to meet with state and local government representatives to seek input, and provide updates;
- continuing to meet frequently with state and federal agencies for guidance during permitting and development of the FERC Resource Reports and respond rapidly to any requests for information;
- providing Project information and updates via periodic newsletters sent via hardcopy and made available electronically on the Project website listed below;
- periodically updating the publicly available website providing pertinent information about the Project (www.SpireSTLPipeline.com); and
- establishing additional channels of communication including the Project Information Line (844-885-7234) and STLPipelineInfo@SpireEnergy.com.

A copy of this Plan was filed with FERC on July 22, 2106 as part of Spire’s Pre-File request letter. An updated version of this the Public, Stakeholder and Agency Participation Plan will be filed with FERC as part of Spire’s FERC application in Appendix 1-H.

1.7.1 Public Participation

Spire is committed to the early identification and resolution of stakeholder issues and concerns related to the proposed Project. Spire believes that successful resolution of issues is best achieved by involving the appropriate stakeholders at the earliest possible stage of a project and prior to filing its application with FERC. As such, Spire has conducted and will continue to conduct extensive outreach to inform stakeholders about the Project and provide available updates. Early in the stakeholder outreach process, Spire established a Project website (<http://www.spireenergy.com/our-projects-pipeline>) that provides information about the Project, updates on regulatory proceedings, copies of regulatory filings, and contact information for the public to use to raise questions and concerns.

Efforts to identify stakeholders was focused on federal, state, and local elected officials; federal, state, and local regulatory agencies; Native American tribes; landowners; economic development agencies/chambers of commerce; local law enforcement agencies; local media outlets; non-governmental organizations; and the community at large. Pursuant to 18 CFR §157.21, Spire submitted a comprehensive stakeholder list on October



14, 2016. Spire has continued to develop and maintain a contact management system to track contact with these stakeholders in a manner that assists in the identification and resolution of emerging issues and concerns.

Spire sent letters to permitting agencies and agencies that require consultation in July 2016 notifying them of its plan to use the FERC pre-filing process and invite them to participate in the pre-file process. Copies of the submitted pre-filing notices are provided in Appendix 1-C. Spire also contacted stakeholders in August 2016, including landowners, to inform them of the pre-filing process timeline and invite them to attend the Community Open Houses. Additionally, letters explaining the Project have been sent to a list of environmental non-government organizations (“ENGOS”) and other NGOs to assure an appropriate, accurate, and complete baseline of information is provided. Copies of the letters are provided in Appendix 1-C. Ongoing efforts to make additional contact with the ENGOS and NGOs will continue to be made.

In August 2016, Spire planned and conducted five community Open Houses in locations along the route:

- Scott County, Illinois on August 16, 2016 at the Scott County Fairgrounds, 401 North Walnut, Winchester, Illinois, 62694;
- Greene County, Illinois on August 24, 2016 at KC Hall Carrollton, US Highway 67, Carrollton, Illinois 62016;
- Jersey County, Illinois on August 17, 2016 at Jerseyville Recreation Center, 401 Mound Street, Jerseyville, Illinois 62052;
- St. Charles County, Missouri on August 23, 2016 at American Legion Post 312, 2500 Raymond Drive, St. Charles, Missouri, 63301;
- St. Louis County, Missouri on August 18, 2016 at Hazelwood Community Center East, 8969 Dunn Road, Hazelwood, Missouri 63042.

A total of 151 stakeholders attended these Open Houses. Comments were focused on preservation or remediation of drain tiles through agricultural fields; compensation for possible damages incurred during survey or construction; easement payments; depth of cover through agricultural land; construction schedule; use of local service companies and businesses during construction; and environmental concerns for crossing waterbodies. Route selection was a topic of discussion at each open house. Spire’s Project team met with each landowner or interested stakeholder to explain the proposed route and take suggestions and comments.

In addition, Spire will provide copies of the filing materials, including resource reports, to participating federal agencies, county offices, and public libraries along the proposed pipeline route and to certain state offices so the public will have the opportunity to view the materials and to provide comments. Copies will be provided to the following libraries in the Project area:

- Scott County: Winchester Public Library at 215 North Main Street, Winchester, Illinois 62694;
- Greene County: Carrollton Public Library at 509 South Main Street, Carrollton, Illinois 62016;
- Jersey County: Jerseyville Public Library at 105 North Liberty Street, Jerseyville, Illinois 62052;



- St. Charles County: St. Charles City-County Library at 1825 Common Field Street, Portage Des Sioux, Missouri 63373; and
- St. Louis County: St. Louis County Library at 4153 North Highway 67, Florissant, Missouri, 63034.

1.7.2 Landowner Notification

The names and addresses of landowners whose property will be crossed by the Project were submitted to FERC on October 14, 2016. This list of landowners will be continually updated and maintained throughout the Project. A copy of this landowner list will be filed with FERC with Spire's FERC application. These landowners were contacted beginning in July 2016 to request access for civil and environmental surveys for the pipeline route, access roads, contractor yards and aboveground facility sites.

Throughout the course of the Project, landowners and stakeholders will be kept informed about Project permitting developments, construction, and restoration through various means, such as Project notification letters and newsletters. At the time of the FERC application, and in accordance with Section 157.6(d) of the Commission's regulations (18 CFR § 157.6(d)), Spire will provide the required notification of the Project to the directly affected and abutting properties affected by the construction work areas. The landowner notification letters will also provide information regarding procedures to follow in the event that the landowner has any concerns or problems during construction. Spire will implement a Landowner Complaint Resolution Process which outlines these procedures and provides an example of the letter that will be distributed by Spire to affected landowners prior to construction. Spire has provided this plan in Appendix 1-D.

1.7.3 Agency Outreach

In addition to public outreach efforts with landowners and governmental officials described in Sections 1.7.1 and 1.7.2, Spire has been conducting an extensive planning and consultation process with federal and state regulatory agencies, resource agencies, and Native American Tribes. The consultation process has involved meetings, letter requests for resource information, and telephone discussions and emails. Project information and letters requesting environmental information have been sent to the state and local agencies in Illinois and Missouri. This section provides a brief description of the more significant agency and stakeholder consultations that have occurred. A list of agencies contacted to date, as well as correspondence materials is provided in Appendix 1-C.

1.7.3.1 Interagency and Other Review/Resource Agency Meetings

Beginning in June 2016, Spire began contacting federal and state regulatory agencies in Illinois and Missouri with respect to the relevant permitting requirements for the Project. Spire conducted several Project introduction meetings and provided the agencies with the Project Description, and advised these agencies of Spire's intent to use the FERC's NEPA pre-filing process. A list of the agency meetings conducted to date is provided in Table 1.7-2. Spire anticipates that it will file for the federal authorizations needed for the Project at or prior to the time that it submits the certificate application for the Project to the FERC, consistent with Commission Order No. 687. Since these meetings, Spire has continued to coordinate with agencies.



Table 1.7-2. Agency Meetings Conducted to Date

Agency	Meeting Date	Topic
USACE, St. Louis District	June 29, 2016	Project introduction
	August 3, 2016	Review of Project design and geotechnical investigations
	August 23, 2016	Review of river crossings
	September 16, 2016	Coordination of Section 408 review
	October 18, 2016	Project update and permitting schedule
USFWS, Rock Island Field Office	July 7, 2016	Project introduction
	August 23, 2016	Review of river crossings
Illinois Historic Preservation Agency	June 21, 2016	Project introduction
	June 21, 2016	Project introduction
Illinois Department of Agriculture	June 21, 2016	Project introduction
Missouri SHPO	July 8, 2016	Project introduction
Missouri Department of Conservation	June 29, 2016	Project introduction
MDNR	August 3, 2016	Project introduction
Consolidated North County Levee District	August 3, 2016	Project introduction

1.7.3.2 Threatened and Endangered Species Consultations

As required under Section 7 of the United States Endangered Species Act (“ESA”) and the endangered species laws in Illinois and Missouri, Spire initiated informal consultations with federal and state resource agencies to update the known locations of federal or state-listed threatened and endangered species or candidate species that could potentially be affected by construction or operation of the Project. Spire has provided preliminary information regarding the Project, including a Project description, aerial mapping and 7.5-minute USGS topographic maps to the USFWS (Rock Island District) and the state agencies in Illinois and Missouri. Spire has also provided further information on planned surveys and will coordinate with USFWS for technical assistance. A record of agency correspondence is provided in Appendix 1-C.

A list of stakeholders that Spire is coordinating with throughout the Project planning process is provided in Appendix 1-E.



1.8 Nonjurisdictional Facilities

No nonjurisdictional facilities are anticipated for this Project.

It is assumed that the REX Receipt Station and Laclede/Lange Delivery Station will need an individual single phase power drop with meter from the applicable electric utility. Since three phase power will not be needed, there are no anticipated upgrades to the existing power infrastructure in the area. Spire anticipates the need for power to amount to requesting power service from the applicable electric utility that will consist of a transformer, power pole(s), and a meter base. Spire will coordinate with the appropriate utility and provide further information in the FERC application.

1.9 Cumulative Impacts

Spire is in the process of assessing Project cumulative impact analyses, including the resource-specific temporal and geographic scope within which cumulative impacts may occur from the construction and operation of the Project. The proposed geographic scope for cumulative impacts analysis is included as Table 1.9-1. Spire proposes to follow FERC’s standard guidance included with FERC staff’s Comments on the Initial Draft Resource Report 1 dated September 23, 2016, with the exception of Environmental Justice. Spire proposes to adjust the geographic scope to be consistent with the Affected Environment established for the Environmental Justice methodology utilized in Resource Report 5. Further justification for the identification of the Affected Environment is included in Resource Report 5.

Table 1.9-1. Geographic Scope for Cumulative Impact Analysis

Environmental Resource	Geographic Scope
Soils and Geology	Construction workspaces
Groundwater, Wetlands, Vegetation, Wildlife	Hydrologic Unit Code (“HUC”) 12 Watershed
Surface Water Resources	HUC 12 Watershed. For direct in-water work (e.g., dredging) include potential overlapping impacts from sedimentation, turbidity, and water quality
Cultural Resources	Overlapping impacts within the Area of Potential Effects
Land Use	one-mile radius
Visual	For aboveground facilities, distance that the tallest feature at the planned facility would be visible from neighboring communities. For pipelines, use 0.25-mile and existing visual access points (e.g., road crossings)



Table 1.9-1. Geographic Scope for Cumulative Impact Analysis (Continued)

Environmental Resource	Geographic Scope
Noise - Operations	Other facilities that would impact any noise sensitive area located within one-mile of a noise emitting permanent aboveground facility
Noise - Construction	0.25-mile from pipeline or aboveground facilities. 0.5-mile from horizontal direction drill or direct pipe installation
Air Quality - Operation	Not applicable - No significant aboveground facilities are proposed, therefore no cumulative impacts for air quality - operation are anticipated
Air Quality - Construction	0.25-mile from pipeline or aboveground facilities
Socioeconomics	Affected counties and municipalities
Environmental Justice	Affected Environment (within one-mile of 24-inch pipeline and within 0.25-mile of Line 880)

Spire has reviewed publicly available data, and received additional guidance from local governments and state agencies regarding projects within the geographic scope of the Project. A list of past, present, and reasonably foreseeable projects identified within the geographic scope of Spire’s Project are included as Table 1.9-2. Spire will provide a detailed discussion on cumulative impacts, by resource, with the FERC application.



Table 1.9-2. Past, Present, and Reasonably Foreseeable Projects within the Geographic Scope

Project Name (Sponsor/Proponent)	Location	Approximate Distance and Direction from the Project	Project Type	Description	Footprint/Layout and Anticipated Impacts	Permits/Authorizations Required and Description of Environmental Review required (if any)	Current Status and Schedule	Overlapping Geographic Scope(s)	Discussion on Area of Impact
Regulated Energy Projects									
None.	-	-	-	-	-	-	-	-	-
Other Regulated Energy Projects									
Dakota Access Pipeline (Energy Transfer Partners, L.P.; Dakota Access, LLC)	Scott County, Illinois (Project extends outside of the geographic scope)	6 miles Northeast of 24-inch Pipeline	Pipeline	The Project includes an approximate 1,172-mile, 30-inch diameter pipeline that will transport domestically produced light sweet crude oil from the rapidly expanding Bakken and Three Forks productions areas in North Dakota to terminal facilities in Patoka, Illinois.	14.5 miles	Illinois Commerce Commission, USACE Section 404, IDNR Section 401	In-service fourth quarter 2016.	Socioeconomics	Further analysis to be provided in FERC application.
Grain Belt Express Clean Line (Clean Line Energy Partners)	Scott and Greene Counties, Illinois (Project extends outside of the geographic scope)	0-mile from 24-inch Pipeline (crosses at MP 2.8)	Electric	The Grain Belt Express Clean Line is an approximately 780-mile overhead, direct current transmission line that will deliver wind energy from western Kansas to utilities and customers in Missouri, Illinois, Indiana and neighboring states.	20 miles	Illinois Commerce Commission, USACE Section 404, IDNR Section 401	Approved by Illinois Commerce Commission in November 2015. Construction as early as 2018.	Soils and Geology; Groundwater, Wetlands, Vegetation, and Wildlife; Surface Water Resources; Cultural Resources; Land Use; Visual; Noise - Construction; Air Quality - Construction; Socioeconomics; Environmental Justice	Further analysis to be provided in FERC application.
Maryland Heights Substation Rebuild (Ameren Missouri)	St. Louis County, Missouri	12 miles Southwest of Line 880	Electric	Replace an aging substation with new technology.	Existing substation. Footprint not available.	Projects are subject to Section 404/401 and coordinates with other agencies as appropriate.	Construction scheduled for March to November 2016.	Socioeconomics	Further analysis to be provided in FERC application.
Glendale Substation Upgrade (Ameren Missouri)	St. Louis County, Missouri	16 miles Southwest of Line 880	Electric	Replace an aging substation switch house.	Existing substation. Footprint not available.	Projects are subject to Section 404/401 and coordinates with other agencies as appropriate.	Construction scheduled for August to December 2016.	Socioeconomics	Further analysis to be provided in FERC application.
South County Substation Rebuild (Ameren Missouri)	St. Louis County, Missouri	19 miles Southwest of Line 880	Electric	Replace an aging substation with new technology.	Existing substation. Footprint not available.	Projects are subject to Section 404/401 and coordinates with other agencies as appropriate.	Construction scheduled for December 2015 to November 2016.	Socioeconomics	Further analysis to be provided in FERC application.
Florissant Switchgear Replacement (Ameren Missouri)	St. Louis County, Missouri	6 miles West of Line 880	Electric	Replace aging switchgear to enhance service reliability from local substation.	Existing substation. Footprint not available.	Projects are subject to Section 404/401 and coordinates with other agencies as appropriate.	Construction scheduled for November to December 2016.	Socioeconomics	Further analysis to be provided in FERC application.
River Valley Undergrounding Project (Ameren Missouri)	St. Louis County, Missouri	18 miles Southwest of Line 880	Electric	Underground a section of power lines to protect service reliability from tree damage.	Footprint not available.	Projects are subject to Section 404/401 and coordinates with other agencies as appropriate.	Construction scheduled for November 2016 to December 2017.	Socioeconomics	Further analysis to be provided in FERC application.
USACE Regulated Projects¹									
Sun River Village & Ferber Stormwater Improvement (City of St. Peters)	St. Charles County, Missouri	16 miles Southwest of 24-inch Pipeline	Stormwater control for Existing Residential Development	Retrofit existing Sun River Village detention basin to increase flood storage, decrease peak flows and reduce downstream streambank erosion.	660 feet.	USACE Section 404, MODNR Section 401	Public notice issued September 2016.	Socioeconomics	Further analysis to be provided in FERC application.



Table 1.9-2. Past, Present, and Reasonably Foreseeable Projects within the Geographic Scope (Continued)

Project Name (Sponsor/Proponent)	Location	Approximate Distance and Direction from the Project	Project Type	Description	Footprint/Layout and Anticipated Impacts	Permits/Authorizations Required and Description of Environmental Review required (if any)	Current Status and Schedule	Overlapping Geographic Scope(s)	Discussion on Area of Impact
USACE Regulated Projects¹ (continued)									
Channel Modification Activities (City of Frontenac)	St. Louis County, Missouri	15 miles Southwest of Line 880	Channel Modification activities for existing development	Replacement of existing culvert and reconstruction of stream channel, and construction of new variable width normal-flow channel. No permanent loss of stream channel.	340 feet.	USACE Section 404, MODNR Section 401	Public notice issued August 2016.	Socioeconomics	Further analysis to be provided in FERC application.
Overflow Parking Facility (Reckitt Benckiser Manufacturing)	St. Charles County, Missouri	16 miles Southwest of 24-inch Pipeline	Commercial Development	Commercial development of 8 acres of agricultural land for construction of overflow parking facility. Grading and construction will impact a 0.85-acre wetland.	7.5 acres.	USACE Section 404, MODNR Section 401	Public notice issued July 2016.	Socioeconomics	Further analysis to be provided in FERC application.
Transportation Projects									
Illinois River Bridge (IDOT)	Scott County, Illinois	11.2 miles Northwest of 24-inch Pipeline	Road Infrastructure	Bridge rehabilitation, painting, deck overlay, joint repair, catwalk access replacement for Illinois 100/Illinois 106 Illinois River Bridge at Florence.	Existing bridge. Footprint not available.	IDOT Projects are subject to Section 404/401 and coordinates with other agencies as appropriate.	Programmed for 2018-2022.	Socioeconomics	Further analysis to be provided in FERC application.
Illinois 267 - Bridge at Lick Creek (IDOT)	Greene County, Illinois	11.9 miles East of 24-inch Pipeline	Road Infrastructure	Bridge maintenance - install new bridge deck for safety and to preserve system.	Existing bridge. Footprint not available.	IDOT Projects are subject to Section 404/401 and coordinates with other agencies as appropriate.	Programmed for 2018-2022.	Socioeconomics	Further analysis to be provided in FERC application.
Illinois 267 - Bridge at Apple Creek (IDOT)	Greene County, Illinois	11.9 miles East of 24-inch Pipeline	Road Infrastructure	Bridge maintenance - install new bridge deck for safety and to preserve system.	Existing bridge. Footprint not available.	IDOT Projects are subject to Section 404/401 and coordinates with other agencies as appropriate.	Programmed for 2018-2022.	Socioeconomics	Further analysis to be provided in FERC application.
US 67 - Delhi Bypass (IDOT)	Jersey County, Illinois	6.1 miles East of 24-inch Pipeline	Road Infrastructure	New construction of four-lane expressway for bypass around Delhi including grading, paving, drainage, signing and lighting.	New bypass. Approximately 3 miles.	IDOT Projects are subject to Section 404/401 and coordinates with other agencies as appropriate.	Programmed for 2018-2022.	Socioeconomics	Further analysis to be provided in FERC application.
US 67 - North of Delhi Bypass to Crystal Lake Road (IDOT)	Jersey County, Illinois	4.7 miles East of 24-inch Pipeline	Road Infrastructure	Two and/or four lane corridor improvement project.	Existing road. Approximately 2.5 miles.	IDOT Projects are subject to Section 404/401 and coordinates with other agencies as appropriate.	Plans are 90% complete. Construction start TBD.	Socioeconomics	Further analysis to be provided in FERC application.
US 67 - Crystal Lake Road to Jerseyville Bypass (IDOT)	Jersey County, Illinois	4.2 miles East of 24-inch Pipeline	Road Infrastructure	Two and/or four lane corridor improvement project.	Existing road. Approximately 1-mile.	IDOT Projects are subject to Section 404/401 and coordinates with other agencies as appropriate.	Plans are 75% complete. Construction start TBD.	Groundwater, Wetlands, Vegetation, and Wildlife; Surface Water Resources; Socioeconomics	Further analysis to be provided in FERC application.



Table 1.9-2. Past, Present, and Reasonably Foreseeable Projects within the Geographic Scope (Continued)

Project Name (Sponsor/Proponent)	Location	Approximate Distance and Direction from the Project	Project Type	Description	Footprint/Layout and Anticipated Impacts	Permits/Authorizations Required and Description of Environmental Review required (if any)	Current Status and Schedule	Overlapping Geographic Scope(s)	Discussion on Area of Impact
Transportation Projects (continued)									
US 67 - Jerseyville Bypass (IDOT)	Jersey County, Illinois	2.6 miles East of 24-inch Pipeline	Road Infrastructure	New construction of bypass around Jerseyville, Illinois, part of two and/or four lane corridor improvement project.	New bypass. Approximately 5 miles.	IDOT Projects are subject to Section 404/401 and coordinates with other agencies as appropriate.	Plans are 75% complete. Construction start TBD.	Groundwater, Wetlands, Vegetation, and Wildlife; Surface Water Resources; Socioeconomics	Further analysis to be provided in FERC application.
US 67 - Jerseyville Bypass to Macoupin Creek (IDOT)	Greene and Jersey Counties, Illinois	0.8-mile east of 24-inch Pipeline	Road Infrastructure	Two and/or four lane corridor improvement project.	Existing road. Approximately 9 miles.	IDOT Projects are subject to Section 404/401 and coordinates with other agencies as appropriate.	Plans are 75% complete. Construction start TBD.	Groundwater, Wetlands, Vegetation, and Wildlife; Surface Water Resources; Land Use; Socioeconomics	Further analysis to be provided in FERC application.
US 67 - Carrollton Bypass (IDOT)	Greene County, Illinois	0.5-mile east of 24-inch Pipeline	Road Infrastructure	New construction of bypass around Carrollton, Illinois, of two and/or four lane corridor improvement projects.	New bypass. Approximately 5 miles.	IDOT Projects are subject to Section 404/401 and coordinates with other agencies as appropriate.	Planning phase. Construction start TBD.	Groundwater, Wetlands, Vegetation, and Wildlife; Surface Water Resources; Land Use; Socioeconomics; Environmental Justice	Further analysis to be provided in FERC application.
US 67 - Carrollton to White Hall (IDOT)	Greene County, Illinois	0.1-mile east of 24-inch Pipeline	Road Infrastructure	Two and/or four lane corridor improvement project.	Existing road. Approximately 6 miles.	IDOT Projects are subject to Section 404/401 and coordinates with other agencies as appropriate.	Planning phase. Construction start TBD.	Groundwater, Wetlands, Vegetation, and Wildlife; Surface Water Resources; Land Use; Visual; Noise - Construction; Air Quality - Construction; Socioeconomics; Environmental Justice	Further analysis to be provided in FERC application.
US 67 - White Hall to Scott County (IDOT)	Greene County, Illinois	0.7-mile east of 24-inch Pipeline	Road Infrastructure	New construction of bypass around White Hall and Roodhouse, Illinois, of two and/or four lane corridor improvement project.	New bypass. Approximately 9 miles.	IDOT Projects are subject to Section 404/401 and coordinates with other agencies as appropriate.	Planning phase. Construction start TBD.	Groundwater, Wetlands, Vegetation, and Wildlife; Surface Water Resources; Land Use; Socioeconomics; Environmental Justice	Further analysis to be provided in FERC application.
Route N (MoDOT)	St. Charles County, Missouri	20 miles Southwest of 24-inch Pipeline	Road Infrastructure	Construct left turn lane and shoulder additions.	Road expansion. 1.08 miles.	MoDOT Projects are subject to Section 404/401 and coordinates with other agencies as appropriate.	Scheduled for 2016.	Socioeconomics	Further analysis to be provided in FERC application.
US 61 (MoDOT)	St. Charles County, Missouri	29 miles west of 24-inch Pipeline	Road Infrastructure	New interchange at Route P and Peine Road and safety improvements from north of Peine Road to north of Route A.	2.52 miles.	MoDOT Projects are subject to Section 404/401 and coordinates with other agencies as appropriate.	Scheduled for 2017.	Socioeconomics	Further analysis to be provided in FERC application.
Route N (MoDOT)	St. Charles County, Missouri	34 miles west of 24-inch Pipeline	Road Infrastructure	Bridge improvement over Sam's Creek.	0.50-mile.	MoDOT Projects are subject to Section 404/401 and coordinates with other agencies as appropriate.	Scheduled for 2018.	Socioeconomics	Further analysis to be provided in FERC application.
Interstate 70 (MoDOT)	St. Charles County, Missouri	20 miles west of 24-inch Pipeline	Road Infrastructure	Improve interchanges, construct outer roads and sidewalks.	5.55 miles.	MoDOT Projects are subject to Section 404/401 and coordinates with other agencies as appropriate.	Scheduled for 2018.	Socioeconomics	Further analysis to be provided in FERC application.



Table 1.9-2. Past, Present, and Reasonably Foreseeable Projects within the Geographic Scope (Continued)

Project Name (Sponsor/Proponent)	Location	Approximate Distance and Direction from the Project	Project Type	Description	Footprint/Layout and Anticipated Impacts	Permits/Authorizations Required and Description of Environmental Review required (if any)	Current Status and Schedule	Overlapping Geographic Scope(s)	Discussion on Area of Impact
Transportation Projects (continued)									
Interstate 270 (MoDOT)	St. Louis County, Missouri	1-mile south of Line 880	Road Infrastructure	Repair and clean out culvert at Bellefontaine Road Interchange.	Existing culvert. 0.09-mile.	MoDOT Projects are subject to Section 404/401 and coordinates with other agencies as appropriate.	Scheduled for 2016.	Groundwater, Wetlands, Vegetation, and Wildlife; Surface Water Resources; Land Use; Socioeconomics	Further analysis to be provided in FERC application.
Interstate 270 - Bridge (MoDOT)	St. Louis County, Missouri	1-mile south of Line 880	Road Infrastructure	Bridge deck rehabilitation at Bellefontaine Road interchange.	Existing bridge. 0.04-mile.	MoDOT Projects are subject to Section 404/401 and coordinates with other agencies as appropriate.	Scheduled for 2016.	Groundwater, Wetlands, Vegetation, and Wildlife; Surface Water Resources; Land Use; Socioeconomics	Further analysis to be provided in FERC application.
Interstate 70 - Bridge (MoDOT)	St. Louis County, Missouri	7 miles southwest of Line 880	Road Infrastructure	Bridge improvements at I-170 interchange, including bridges on I-170 over Route 115.	Existing bridges. 1.28 miles.	MoDOT Projects are subject to Section 404/401 and coordinates with other agencies as appropriate.	Scheduled for 2016.	Groundwater, Wetlands, Vegetation, and Wildlife; Surface Water Resources; Socioeconomics	Further analysis to be provided in FERC application.
Interstate 44 Interchange (MoDOT)	St. Louis County, Missouri	22 miles southwest of Line 880	Road Infrastructure	Design/build project. Interchange improvements at I-44/Route 141, intersection improvements at Vance Road/Route 141 and pavement improvements along Route 141.	Interchange improvements. 1.34 miles.	MoDOT Projects are subject to Section 404/401 and coordinates with other agencies as appropriate.	Scheduled for 2016.	Socioeconomics	Further analysis to be provided in FERC application.
Old Route 44 - Bridge (MoDOT)	St. Louis County, Missouri	28 miles southwest of Line 880	Road Infrastructure	Removal of remainder of bridge over Meramec River.	0.10-mile.	MoDOT Projects are subject to Section 404/401 and coordinates with other agencies as appropriate.	Scheduled for 2017.	Socioeconomics	Further analysis to be provided in FERC application.
Interstate 270 - Bridge (MoDOT)	St. Louis County, Missouri	3 miles southwest of Line 880	Road Infrastructure	Bridge replacement at Route AC interchange.	0.10-mile.	MoDOT Projects are subject to Section 404/401 and coordinates with other agencies as appropriate.	Scheduled for 2019-2021.	Groundwater, Wetlands, Vegetation, and Wildlife; Surface Water Resources; Socioeconomics	Further analysis to be provided in FERC application.
Interstate 270 - Bridge (MoDOT)	St. Louis County, Missouri	12 miles southwest of Line 880	Road Infrastructure	Bridge improvements over Fee Creek.	Existing bridge. 0.10-mile.	MoDOT Projects are subject to Section 404/401 and coordinates with other agencies as appropriate.	Scheduled for 2018.	Socioeconomics	Further analysis to be provided in FERC application.
Route AB - Bridge (MoDOT)	St. Louis County, Missouri	16 miles southwest of Line 880	Road Infrastructure	Bridge improvements at Hibler Creek.	Existing bridge. 0.10-mile.	MoDOT Projects are subject to Section 404/401 and coordinates with other agencies as appropriate.	Scheduled for 2018.	Socioeconomics	Further analysis to be provided in FERC application.
Missouri 340 (MoDOT)	St. Louis County, Missouri	20 miles southwest of Line 880	Road Infrastructure	Add dual left turn lanes and right turn lane off ramp.	0.36-mile.	MoDOT Projects are subject to Section 404/401 and coordinates with other agencies as appropriate.	Scheduled for 2018.	Socioeconomics	Further analysis to be provided in FERC application.



Table 1.9-2. Past, Present, and Reasonably Foreseeable Projects within the Geographic Scope (Continued)

Project Name (Sponsor/Proponent)	Location	Approximate Distance and Direction from the Project	Project Type	Description	Footprint/Layout and Anticipated Impacts	Permits/Authorizations Required and Description of Environmental Review required (if any)	Current Status and Schedule	Overlapping Geographic Scope(s)	Discussion on Area of Impact
Transportation Projects (continued)									
Missouri 340 (MoDOT)	St. Louis County, Missouri	21 miles southwest of Line 880	Road Infrastructure	Add auxiliary lane and extend left turn lane.	0.35-mile.	MoDOT Projects are subject to Section 404/401 and coordinates with other agencies as appropriate.	Scheduled for 2018.	Socioeconomics	Further analysis to be provided in FERC application.
Commercial/Industrial									
NorthPark Phase I (NorthPark Partners)	St. Louis County, Missouri	6.8 miles southwest of Line 880	Business Park	Close to 400 acres in Phase I of a business park where seven separate buildings have been constructed to date since purchase of the blighted property in 2006, with the most recent openings in 2016.	Up to 400 acres	Development would be subject to applicable federal, state, and local reviews, depending on the resources identified on site.	Ongoing. Most recent construction completed in 2016 with additional parcels available for development.	Socioeconomics	Further analysis to be provided in FERC application.
NorthPark Phase II (NorthPark Partners)	St. Louis County, Missouri	7.1 miles southwest of Line 880	Business Park	Up to 200 acres Phase II of NorthPark includes cleanup and removal of an additional 480 foundations/basements to prepare site for development. Newest site development projected opening is 2016.	Up to 200 acres	Development would be subject to applicable federal, state, and local reviews, depending on the resources identified on site.	Ongoing. Most recent construction is anticipated to be completed in 2016.	Socioeconomics	Further analysis to be provided in FERC application.

Note:

¹ Public notices for USACE regulated projects were reviewed from June 2016 to October 11, 2016.



1.10 References

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APPENDIX 1-A
Topographic Map



Under Separate Cover



APPENDIX 1-B
Construction Alignment Sheets



Under Separate Cover



APPENDIX 1-C
Agency Correspondence

**Spire STL Pipeline
Agency Correspondence Tracking List
Appendix 1-C**

Agency Correspondence - Federal, State, Local Agencies, and Native American Tribes

Agency	Region/ Division	Contact Name	Address	City	State	Zip	Contact Phone	Contact Email	Permit/Clearance/ Approval	Date Sent	Response Type/ Date	Responding Contact	Correspondence
FEDERAL													
United States Army Corps of Engineers ("USACE")													
USACE	St. Louis District	Chuck Frerker, PM	1222 Spruce Street	St. Louis	MO	63103-2833	314-331-8583	Charles.F.Frerker@usace.army.mil	Section 401/404, Section 10	6/3/2016	6/3/2016	Mr. Frerker	Telephone
										6/8/2016	6/20/2016	Mr. Frerker	Email
										6/24/2016	6/24/2016	Mr. Frerker	Email
										8/3/2016	8/3/2016	Mr. Frerker	Meeting
USACE	St. Louis District	Edward Rodriguez Robles	1222 Spruce Street	St. Louis	MO	63103-2833	314-331-8568	edward.c.rodriguezrobles@usace.army.mil	Section 408	6/27/2016	6/27/2016		Meeting
										6/30/2016	7/7/2016	Mr. Rodriguez Robles	Email
											7/13/2016		Email
										7/14/2016	7/14/2016	Mr. Rodriguez Robles	Telephone
										7/22/2016	7/28/2016	Mr. Rodriguez Robles	Telephone and Email
										8/2/2016			Email
										8/3/2016	8/3/2016	Mr. Rodriguez Robles	Meeting
										8/4/2016	8/4/2016	Mr. Rodriguez Robles	Email
										8/5/2016			Open House Invitation Letter
										8/19/2016			Letter
										9/1/2016			Email
										9/15/2016			Email
	9/21/2016	Mr. Rodriguez Robles	Email										
USACE	St. Louis District	David Meyer	1222 Spruce Street	St. Louis	MO	63103-2833		david.p.meyer@usace.army.mil		8/3/2016	8/3/2016	Mr. Meyer	Meeting
										8/4/2016	8/8/2016	Mr. Meyer	Email
										8/5/2016			Open House Invitation Letter
										-	10/7/2016	Mr. Meyer	Email
USACE	St. Louis District	Keith McMullen	1222 Spruce Street	St. Louis	MO	63103-2833	314-331-8582	Keith.A.McMullen@usace.army.mil	USACE Illinois Section Chief	6/27/2016	6/27/2016		Meeting
										7/29/2016			Notice of Prefiling Letter
										8/5/2016			Open House Invitation Letter
USACE	St. Louis District	Charlie Deutsch	1222 Spruce Street	St. Louis	MO	63103-2833	636-899-0082	charlie.deutsch@usace.army.mil	Biologist, Rivers Project Office	6/27/2016	6/27/2016		Meeting
										8/19/2016	8/23/2016	Mr. Deutsch	Email
										8/24/2016			Email
USACE	St. Louis District	Lynn Hoerner	1222 Spruce Street	St. Louis	MO	63103-2833	314-331-8157	melissa.l.hoerner@usace.army.mil	Real Estate Division	6/27/2016	6/27/2016		Meeting
										7/21/2016	7/21/2016	Ms. Hoerner	Telephone
										7/20/2016	7/21/2016	Ms. Hoerner	Email
										7/29/2016	7/29/2016	Ms. Hoerner	Email
										8/3/2016	8/3/2016	Ms. Hoerner	Meeting
										8/5/2016			Open House Invitation Letter
										8/11/2016	8/19/2016	Ms. Hoerner	Email
										8/19/2016			Letter
										9/1/2016			Email
										9/20/2016	9/20/2016	Ms. Hoerner	Email
USACE	St. Louis District	Teri Allen	1222 Spruce Street	St. Louis	MO	63103-2833				8/3/2016	8/3/2016		Meeting
USACE	FUSRAP	Susan Adams	1222 Spruce Street	St. Louis	MO	63103-2833	314-422-7205	Susan.L.Adams@usace.army.mil	FUSRAP	7/29/2016			Notice of Prefiling Letter
										8/5/2016			Open House Invitation Letter
USACE	St. Louis District	Jacob Prebianca	1222 Spruce Street	St. Louis	MO	63103-2833	314-731-7661	jacob.a.prebianca@usace.army.mil	FUSRAP	9/8/2016	9/13/2016	Mr. Prebianca	Email
										9/28/2016	9/28/2016	Mr. Prebianca	Telephone
										9/29/2016	10/6/2016	Mr. Prebianca	Email
										-	10/12/2016	Mr. Prebianca	Email
USACE	St. Louis District	Jonathan Rankins	1222 Spruce Street	St. Louis	MO	63103-2833		Jonathan.F.Rankins@usace.army.mil		10/12/2016	10/12/2016	Mr. Rankins	Email
USACE	St. Louis District - Missouri Section Chief	Robert S. Gramke	1222 Spruce Street	St. Louis	MO	63103-2833					10/7/2016	Mr. Gramke	Letter

**Spire STL Pipeline
Agency Correspondence Tracking List
Appendix 1-C**

Agency Correspondence - Federal, State, Local Agencies, and Native American Tribes

Agency	Region/ Division	Contact Name	Address	City	State	Zip	Contact Phone	Contact Email	Permit/Clearance/ Approval	Date Sent	Response Type/ Date	Responding Contact	Correspondence
USACE	Kansas City District	Michael Chapman	601 E 12th Street	Kansas City	MO	64106	816-389-3310	Michael.d.chapman@usace.army.mil	Missouri River Recovery Program	6/30/2016			Voicemail
										7/15/2016	7/15/2016	Mr. Chapman	Telephone
										7/29/2016			Notice of Prefiling Letter
										8/5/2016			Open House Invitation Letter
United States Fish and Wildlife ("USFWS")													
USFWS	Marion County Sub-Office	Matthew Mangan	8588 Route 148	Marion	IL	62959	618-997-3344, ext. 340	matthew_mangan@fws.gov	Federal-listed species	6/3/2016	6/3/2016	Mr. Mangan	Telephone
										7/29/2016			Notice of Prefiling Letter
										8/5/2016			Open House Invitation Letter
USFWS	Rock Island Field Office	Kristen Lundh	1511 47th Avenue	Moline	IL	61265	309-757-5800		Federal-listed species	6/3/2016			Voicemail
USFWS	Rock Island Field Office	Kraig McPeek	1511 47th Avenue	Moline	IL	61265	309-757-5800 ext. 202		Federal-listed species	6/8/2016	6/8/2016	Mr. McPeek	Telephone
										6/8/2016	6/8/2016	Mr. McPeek	Email
										7/8/2016	7/8/2016	Mr. McPeek	Meeting
										7/29/2016			Notice of Prefiling Letter
										8/5/2016			Open House Invitation Letter
										8/12/2016			Consultation Letter
USFWS	Rock Island Field Office	Chase Allred	1511 47th Avenue	Moline	IL	61265	309-757-5800, ext. 221	chase_allred@fws.gov	Federal-listed species	7/8/2016	7/8/2016	Mr. Allred	Meeting
										8/2/2016	8/2/2016	Mr. Allred	Telephone and Email
										8/8/2016			Email
										8/5/2016			Open House Invitation Letter
										9/29/2016	9/30/2016	Mr. Allred	Letter and Email
										10/11/2016	10/14/2016	Mr. Allred	Email
										10/14/2016			Email
										6/30/2016			Voicemail and Email
USFWS	Two Rivers National Wildlife Refuge	Justin Sexton	HC 82, Box 107	Brussels	IL	62013	618-883-2524, ext. 24	justin_sexton@fws.gov	Federal-listed species and migratory birds	7/29/2016			Notice of Prefiling Letter
USFWS	Columbia Field Office	Trisha Crabill	101 Park De Ville Dr, Suite A	Columbia	MO	65203	573-234-2132	trisha_crabill@fws.gov		9/29/2016			cc on Letter to Chase Allred
National Oceanic and Atmospheric Administration ("NOAA")													
NOAA Fisheries	NOAA NEPA Coordinator		Office of General Counsel, 1315 East-West Highway, Room 15132	Silver Springs	MD	20910	301-713-9668	noaa.nepa@noaa.gov		7/29/2016			Notice of Prefiling Letter
										8/5/2016			Open House Invitation Letter
United States Environmental Protection Agency ("USEPA")													
USEPA	Region 5, Acting Regional Administrator	Robert Kaplan	77 W. Jackson Blvd	Chicago	IL	60604	312-353-2000			7/29/2016			Notice of Prefiling Letter
										8/5/2016			Open House Invitation Letter
USEPA	Region 5 Environmental Impact Statements Contact	Virginia Laszewski	77 W. Jackson Blvd	Chicago	IL	60604	312-886-7501	Laszewski.virginia@epa.gov		9/16/2016	9/16/2016	Ms. Laszewski	Telephone
										10/6/2016	10/6/2016	Ms. Laszewski	Telephone
										-	10/6/2016	Ms. Laszewski	Email
										10/12/2016			Email
USEPA	Region 5	Elizabeth Poole	77 W. Jackson Blvd	Chicago	IL	60604	312-353-2087	poole.elizabeth.epa.gov		10/6/2016	10/6/2016	Ms. Poole	Telephone
USEPA	Region 7, Regional Administrator	Mark J. Hague	11201 Renner Blvd	Lenexa	KS	66219	913-551-7003			7/29/2016			Notice of Prefiling Letter
										8/5/2016			Open House Invitation Letter
USEPA	Region 7 Environmental Impact Statements Contact	Joe Summerlin	11201 Renner Blvd	Lenexa	KS	66219	913-551-7029	Summerlin.joe@epa.gov		9/16/2016	9/16/2016	Mr. Summerlin	Telephone
										10/6/2016	10/6/2016		Telephone
USEPA	Region 7	Althea Moses	11201 Renner Blvd	Lenexa	KS	66219	913-551-7649	Moses.Althea@epa.gov		9/30/2016	9/30/2016	Ms. Moses	Telephone
										10/4/2016	10/6/2016	Ms. Moses	Email
										10/6/2016	10/6/2016	Ms. Moses	Telephone

**Spire STL Pipeline
Agency Correspondence Tracking List
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Agency Correspondence - Federal, State, Local Agencies, and Native American Tribes

Agency	Region/ Division	Contact Name	Address	City	State	Zip	Contact Phone	Contact Email	Permit/Clearance/ Approval	Date Sent	Response Type/ Date	Responding Contact	Correspondence
USEPA	Region 7	Tamara Freeman						Freeman.Tamara@epa.gov		10/6/2016	10/6/2016	Ms. Freeman	Telephone
Natural Resources Conservation Service ("NRCS")													
NRCS	Illinois State Office	Ivan Dozier	2118 W. Park Court	Champaign	IL	61821	217-353-6600			7/29/2016			Notice of Prefiling Letter
										8/5/2016	8/10/2016	Mr. Dozier	Open House Invitation Letter; Letter Response
NRCS	Scott County/Winchester Field Office	Johanna Fuller	656 North Main	Winchester	IL	62694	217-742-9561, ext. 3	johanna.fuller@il.usda.gov		7/29/2016			Notice of Prefiling Letter
										8/5/2016			Open House Invitation Letter
										9/30/2016	9/30/2016	Ms. Fuller	Telephone
NRCS	Greene County/Carrollton Field Office	Brad Behymer	R.R. 3, Box 129, Route 67 North	Carrollton	IL	62016	217-942-5464, ext. 3	Bradley.Behymer@il.usda.gov		7/29/2016			Notice of Prefiling Letter
										8/5/2016			Open House Invitation Letter
										10/3/2016	10/3/2016	Mr. Behymer	Telephone
										10/5/2016	10/5/2016	Mr. Behymer	Telephone
										10/5/2016			Email
										10/12/2016	10/13/2016	Mr. Behymer	Email
NRCS	Jersey County/Jerseyville Lincoln Field Office	Brad Behymer	604 East Franklin	Jerseyville	IL	62052	217-942-5464, ext. 3	Bradley.Behymer@il.usda.gov		7/29/2016			Notice of Prefiling Letter
										8/5/2016			Open House Invitation Letter
NRCS	Missouri State Office	J.R. Flores	Parkade Center 601 Business Loop 70 West, Suite 250	Columbia	MO	65203	573-876-0901			7/29/2016			Notice of Prefiling Letter
										8/5/2016			Open House Invitation Letter
NRCS	Service Center Office	Connie Gibson	160 Saint Peters Centre Blvd	St. Peters	MO	63376	636-952-2283, ext. 105	Connie.Gibson@mo.usda.gov		7/29/2016			Notice of Prefiling Letter
										8/5/2016			Open House Invitation Letter
NRCS	Service Center Office	Renee L. Cook	160 Saint Peters Centre Blvd	St. Peters	MO	63376	636-922-2833, ext. 3	renee.cook@mo.usda.gov		-	9/28/2016	Ms. Cook	Email
										-	10/11/2016	Ms. Cook	Email
Farm Service Agencies ("FSAs")													
USDA	Farm Service Agency - Scott County	Rebecca D. Walls	656 North Main St	Winchester	IL	62694	217-742-9561, ext. 2	rebecca.walls@il.usda.gov		7/29/2016			Notice of Prefiling Letter
										8/5/2016			Open House Invitation Letter
USDA	Farm Service Agency - Carrollton Service Center		Route 267 North	Carrollton	IL	62016				7/29/2016			Notice of Prefiling Letter
										8/5/2016			Open House Invitation Letter
USDA	Farm Service Agency - Jerseyville Service Center		604 E Franklin	Jerseyville	IL	62052				7/29/2016			Notice of Prefiling Letter
										8/5/2016			Open House Invitation Letter
USDA	Farm Service Agency - St Charles County	Connie Gibson	160 Saint Peters Centre Blvd	St. Peters	MO	63376	636-952-2283, ext. 105	Connie.Gibson@mo.usda.gov		7/29/2016			Notice of Prefiling Letter
										8/5/2016			Open House Invitation Letter
USDA	Farm Service Agency - St Louis County	Connie Gibson	160 Saint Peters Centre Blvd	St. Peters	MO	63376	636-952-2283, ext. 105	Connie.Gibson@mo.usda.gov		7/29/2016			Notice of Prefiling Letter
										8/5/2016			Open House Invitation Letter
										9/7/2016			Email
										9/28/2016	9/28/2016	Ms. Gibson	Email
										10/11/2016			Email

**Spire STL Pipeline
Agency Correspondence Tracking List
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Agency Correspondence - Federal, State, Local Agencies, and Native American Tribes

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USDA	Farm Service Agency - Illinois State Office	Jamie Diebal	3500 Wabash Ave	Springfield	IL	62711	217-331-6872	jamie.diebal@il.usda.gov	CRP	9/21/2016	9/22/2016	Ms. Diebal	Email
										9/26/2016			Email
										10/12/2016	10/17/2016	Ms. Diebal	Email
STATE - Illinois													
Illinois Department of Natural Resources ("IDNR")													
IDNR	Endangered Species	Pat Malone	One Springfield Way	Springfield	IL	62702- 1271	217-785-4991	pat.malone@illinois.gov	State Listed Species	6/8/2016	6/8/2016		Telephone and Email
										6/21/2016	6/21/2016	Mr. Malone	Meeting
										6/16/2016	7/6/2016	Mr. Malone	Email
										7/15/2016	7/15/2016	Mr. Malone	Email
										7/29/2016			Notice of Prefiling Letter
										8/5/2016			Open House Invitation Letter
										8/12/2016			Consultation Letter
										8/15/2016	8/15/2016	Mr. Malone	Email
										9/26/2016	9/26/2016	Mr. Malone	Telephone
										9/27/2016	9/27/2016	Mr. Malone	Telephone
										10/5/2016	10/5/2016	Mr. Malone	Telephone
										10/5/2016	10/14/2016	Mr. Malone	Email
										10/14/2016	10/14/2016	Mr. Malone	Email
IDNR	Water Resources	Mike Diedrichsen	One Springfield Way	Springfield	IL	62702- 1271	217-782-4426	mike.diedrichsen@illinois.gov		6/8/2016	6/9/2016	Mr. Diedrichsen	Telephone and Email
										6/14/2016	6/15/2016	Mr. Diedrichsen	Email
										6/21/2016	6/21/2016	Mr. Diedrichsen	Meeting
										7/29/2016			Notice of Prefiling Letter
										8/5/2016			Open House Invitation Letter
										8/12/2016			Consultation Letter
										9/28/2016	9/28/2016	Mr. Diedrichsen	Telephone
IDNR	Conservation Program	Mike Chandler					217-785-8773	mike.chandler@illinois.gov		8/4/2016			Voicemail and Email
IDNR	CREP Program Coordinator	Luke Garver	One Natural Resources Way	Springfield	IL	62702- 1721	217-524-3200	Luke.Garver@illinois.gov	CREP	-	8/8/2016		Voicemail
										8/9/2016	8/10/2016	Mr. Garver	Telephone and Email
										9/9/2016	9/9/2016	Mr. Garver	Email
IDNR		Nathan Grider								10/7/2016	10/7/2016	Mr. Grider	Telephone
Illinois Department of Agriculture ("IDOA")													
IDOA	Bureau of Land and Water Resources	Terry Savko	Statefairgrounds P.O. Box 19281	Springfield	IL	62794- 9281	217-785-4458	terry.savko@illinois.gov	Agricultural Impact Mitigation Agreement	6/9/2016	6/9/2016	Ms. Savko	Telephone and Email
										6/22/2016	6/22/2016	Ms. Savko	Meeting
										7/29/2016			Notice of Prefiling Letter
										8/15/2016			Consultation Letter
										8/5/2016			Open House Invitation Letter
										9/7/2016	9/7/2016	Ms. Savko	Email
										9/22/2016	9/26/2016	Ms. Savko	Email
9/26/2016	10/6/2016	Ms. Savko	Email										
Illinois Historic Preservation Agency ("IHPA")													
IHPA	Division Manager & Deputy SHPO	Rachel Leibowitz	1 Old State Capitol Plaza	Springfield	IL	62701	217-782-7534	rachel.leibowitz@illinois.gov	Section 106	6/21/2016	6/21/2016	Ms. Leibowitz	Meeting
										7/29/2016			Notice of Prefiling Letter
										-	8/4/2016		Letter
										8/5/2016			Open House Invitation Letter
8/29/2016			Consultation Letter										
Illinois Environmental Protection Agency ("IEPA")													
IEPA	Bureau of Water	Alan Keller	1021 North Grand Avenue East P.O. Box 19276	Springfield	IL	62794- 9276	217-782-0610	al.keller@illinois.gov		6/9/2016	6/9/2016		Telephone
										8/12/2016			Consultation Letter
IEPA	Industrial Engineer on call	Mark Liska					217-782-0610		Hydrostatic Test Withdrawals and Discharge	7/11/2016	7/11/2016	Mr. Liska	Telephone

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Agency Correspondence - Federal, State, Local Agencies, and Native American Tribes

Agency	Region/ Division	Contact Name	Address	City	State	Zip	Contact Phone	Contact Email	Permit/Clearance/ Approval	Date Sent	Response Type/ Date	Responding Contact	Correspondence
IEPA	Bureau of Water - Industrial Unit Manager	Darin LeCrone	1021 North Grand Avenue East	Springfield	IL	62794	217-782-0610	darin.lecrone@illinois.gov		7/29/2016			Notice of Prefiling Letter
										8/5/2016			Open House Invitation Letter
IEPA	GIS	Joe Konczyk					217-785-2271	Joe.Konczyk@Illinois.gov	Illinois Drinking Water Resources	9/21/2016	9/21/2016	Mr. Konczyk	Telephone
										9/22/2016	9/22/2016	Mr. Konczyk	Email
IEPA		Scott Twait	1021 North Grand Avenue East	Springfield	IL	62794	217-558-2012	Scott.Twait@Illinois.gov		9/28/2016	9/28/2016	Mr. Twait	Telephone
										10/7/2016	10/17/2016	Mr. Twait	Email
										10/17/2016	10/17/2016	Mr. Twait	Telephone
IEPA	Public Water Supply	David Cook					217-782-0078			10/17/2016			Voicemail
										10/18/2016	10/18/2016	Mr. Cook	Telephone
STATE - Missouri													
Missouri Department of Natural Resources ("MDNR")													
MDNR	Water Resources Center - Surface Water, Wetlands and Planning	Steve McIntosh	PO Box 176	Jefferson City	MO	65102	573-751-7823	steve.mcintosh@dnr.mo.gov	Major Water User Registration	6/16/2016	6/16/2016	Mr. McIntosh	Telephone and Email
										8/3/2016	8/3/2016		Meeting
MDNR	Water Resources Center	Scott Kaden	PO Box 176	Jefferson City	MO	65102	573-368-2175			7/8/2016	7/8/2016	Mr. Kaden	Telephone
MDNR	Water Protection Program	Robert Voss	PO Box 176	Jefferson City	MO	65102	573-751-1300			7/8/2016	7/8/2016	Mr. Voss	Telephone
MDNR	Water Protection Program	Chris Wieberg	PO Box 176	Jefferson City	MO	65102	573-526-5781	chris.wieberg@dnr.mo.gov	Hydrostatic Discharge Permit	7/11/2016	7/11/2016	Mr. Wieberg	Telephone
										8/3/2016	8/3/2016	Mr. Wieberg	Meeting
MDNR	Director	Sara Parker Pauley	PO Box 176	Jefferson City	MO	65102	573-522-6221			7/29/2016			Notice of Prefiling Letter
										8/5/2016			Open House Invitation Letter
MDNR		Paul Mueller	PO Box 176	Jefferson City	MO	65102	314-416-2960			7/29/2016			Notice of Prefiling Letter
										8/5/2016			Open House Invitation Letter
MDNR		Mike Irwin	PO Box 176	Jefferson City	MO	65102	573-522-1131	mike.irwin@dnr.mo.gov	401 Water Quality Certification	8/3/2016	8/3/2016	Mr. Irwin	Meeting
										8/4/2016	8/4/2016	Mr. Irwin	Email
										8/4/2016	8/5/2016	Mr. Irwin	Email
										8/5/2016			Open House Invitation Letter
MDNR		Lorisa Smith	PO Box 176	Jefferson City	MO	65102	573-751-7370	Lorisa.Smith@dnr.mo.gov	Permitting Contact	8/3/2016	8/3/2016	Ms. Smith	Meeting
										8/4/2016			Email
										8/5/2016			Open House Invitation Letter
										9/8/2016			Consultation Letter
MDNR	Katy Trail	Denny Bopp	PO Box 176	Jefferson City	MO	65102	573-751-9392	denny.bopp@dnr.mo.gov	Katy Trail	8/3/2016	8/3/2016	Mr. Bopp	Meeting
										9/28/2016			Voicemail
MDNR		Brad Harris	PO Box 176	Jefferson City	MO	65102	573-644-3226	brad.harris@dnr.mo.gov	Env. Emergency Response Plan	8/3/2016	8/3/2016	Mr. Harris	Meeting
MDNR		Robert Stout	PO Box 176	Jefferson City	MO	65102	573-751-7402	robert.stout@dnr.mo.gov	Policy Contact	8/3/2016	8/3/2016	Mr. Stout	Meeting
MDNR	Geology	Peter Price	PO Box 176	Jefferson City	MO	65102	573-368-2131	peter.price@dnr.mo.gov	Well drilling	8/3/2016	8/3/2016	Mr. Price	Meeting
MDNR	Geology	Peter Bachle	PO Box 176	Jefferson City	MO	65102	573-368-2472	peter.bachle@dnr.mo.gov		8/3/2016	8/3/2016	Mr. Bachle	Meeting

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Agency Correspondence - Federal, State, Local Agencies, and Native American Tribes

Agency	Region/ Division	Contact Name	Address	City	State	Zip	Contact Phone	Contact Email	Permit/Clearance/ Approval	Date Sent	Response Type/ Date	Responding Contact	Correspondence
MDNR	Well Heads Department	Justin Davis	PO Box 176	Jefferson City	MO	65102	573-368-2167		Registration of Geotech				
MDNR	GIS	David Erickson					573-368-2332	david.erickson@dnr.mo.gov	Missouri Drinking Water Resources	9/21/2016	9/21/2016	Mr. Erickson	Telephone
MDNR	Cultural Resource Management Section, State Parks	Kim Dillon					573-526-0976	kim.dillon@dnr.mo.gov		10/3/2016	10/3/2016	Ms. Dillon	Email
MDNR	Public Drinking Water Branch	Maher Jaafari					573-751-1127	maher.jaafari@dnr.mo.gov		10/18/2016	10/19/2016	Mr. Jaafari	Email
MDNR	Public Drinking Water Branch	Everett Baker						Everett.Baker@dnr.mo.gov		-	10/24/2016	Mr. Baker	Email
Missouri State Historic Preservation Office (SHPO)	Compliance Coordinator	Judith Deel	PO Box 176	Jefferson City	MO	65102	573-751-7862	judith.deel@dnr.mo.gov	Section 106	7/8/2016	7/8/2016	Ms. Deel	Meeting
										7/29/2016			Notice of Prefiling Letter
										8/3/2016	8/3/2016	Ms. Deel	Meeting
										8/5/2016			Open House Invitation Letter
										8/29/2016			Consultation Letter
										9/12/2016	9/13/2016	Ms. Deel	Email
										9/14/2016	9/14/2016	Ms. Deel	Email
SHPO		Heather Gibb	PO Box 176	Jefferson City	MO	65102	573-751-4589	heather.gibb@dnr.mo.gov	Section 106	7/8/2016	7/8/2016	Ms. Gibb	Meeting
										8/3/2016	8/3/2016	Ms. Gibb	Meeting
										9/28/2016	9/28/2016	Ms. Gibb	Email
										9/29/2016	9/30/2016	Ms. Gibb	Email
Missouri Department of Conservation (MDOC)													
MDOC	Wildlife	Raenhard Wesselschmidt	2360 Hwy D	St. Charles	MO	63304	636-441-4554 ext. 4132	raenhard.wesselschmidt@mdc.mo.gov		7/29/2016			Notice of Prefiling Letter
										8/5/2016			Open House Invitation Letter
MDOC	Wildlife	Audrey Beres	2360 Hwy D	St. Charles	MO	63304	573-522-4115, ext. 3346	audrey.beres@mdc.mo.gov	RTE	6/17/2016	6/17/2016	Ms. Beres	Telephone
										6/27/2016	6/27/2016	Ms. Beres	Meeting
										6/17/2016	7/6/2016	Ms. Beres	Email
										8/12/2016			Consultation Letter
MDOC	Pools 24.25 and 26 of Upper Mississippi	Gary Calvert	P.O. Box 201 3333 North Highway 79	Elsberry	MO	63343	573-898-5905, ext. 1890	Gary.Calvert@mdc.mo.gov	Migratory Bird and Setback requirements	7/6/2016	7/6/2016	Mr. Calvert	Telephone
										7/29/2016			Notice of Prefiling Letter
										8/5/2016			Open House Invitation Letter
MDOC	Policy Coordinator	Jennifer Campbell	PO Box 176	Jefferson City	MO	65102	573-522-4115	jennifer.campbell@mdc.mo.gov	Permitting Contact	9/16/2016			Voicemail
										9/22/2016			Voicemail
										10/14/2016	10/17/2016	Ms. Campbell	Voicemail and Email
MDOC		Nate Muenks					573-751-4115, ext. 3371		Noxious Weeds	10/17/2016	10/17/2016	Ms. Campbell	Email
										9/30/2016	9/30/2016	Mr. Muenks	Telephone
Missouri Department of Agriculture ("MDA")													
MDA		Collin Wamsley					412-399-5251		Noxious Weeds	9/30/2016	9/30/2016	Mr. Wamsley	Telephone
Local													
Consolidated North County Levee District	President	Kevin Machens	135 Payne Road	Portage Des Sioux	MO	63373	314-750-2519	skmachens@live.com	Letter of Endorsement	7/14/2016			Voicemail and Email
										7/29/2016			Notice of Prefiling Letter
										8/3/2016	8/3/2016		Meeting
										8/5/2016			Open House Invitation Letter
										9/15/2016	9/15/2016	Mr. Machens	Telephone and Email
										9/29/2016	9/29/2016	Mr. Machens	Telephone

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Agency Correspondence - Federal, State, Local Agencies, and Native American Tribes

Agency	Region/ Division	Contact Name	Address	City	State	Zip	Contact Phone	Contact Email	Permit/Clearance/ Approval	Date Sent	Response Type/ Date	Responding Contact	Correspondence
Scott County Soil and Water Conservation District	Resource Conservationist	Lance Mueller	656 North Main	Winchester	IL	62694	217-742-9561	lance.mueller@il.nacdnet.net		7/29/2016			Notice of Prefiling Letter
										8/5/2016			Open House Invitation Letter
										9/7/2016	9/28/2016	Mr. Mueller	Email
										9/28/2016	9/28/2016	Mr. Mueller	Email
Greene County Soil and Water Conservation District	Administrative Coordinator	Annyce Winters	RR3, Box 129	Carrollton	IL	62016	217-942-5464	annyce.winters@il.nacdnet.net		7/29/2016			Notice of Prefiling Letter
										8/5/2016			Open House Invitation Letter
Jersey County Soil and Water Conservation District	Resource Conservationist	Jeff Blackorby	604 E. Franklin	Jerseyville	IL	62052	618-498-3712	jeff.blackorby@il.nacdnet.net		7/29/2016			Notice of Prefiling Letter
										8/5/2016			Open House Invitation Letter
St. Charles County Soil and Water Conservation District	District Manager	Frankie Coleman	160 St. Peters Centre Blvd	St. Peters	MO	63376	636-922-2833	frankie.coleman@swcd.mo.gov		9/7/2016	9/16/2016	Mr. Coleman	Email
										9/28/2016			Email
St. Charles County Soil and Water Conservation District		Charles Perkins									9/30/2016	Mr. Perkins	Telephone
Scott County	Chief County Assessment Officer	Lorrie Koch	35 E Market Street	Winchester	IL	62694	217-742-5751	scottcoassessor@frontier.com		10/6/2016	10/6/2016	Ms. Koch	Telephone
Greene County	Floodplain Management	Stan Crusius	519 N. Main St	Carrollton	IL	62016	217-942-5443		Floodplain Permit	7/29/2016			Notice of Prefiling Letter
										8/5/2016			Open House Invitation Letter
Greene County	Clerk	Debbie Banghart					217-942-5443			10/12/2016	10/12/2016	Ms. Banghart	Telephone
Jersey County	Code Administrator	Cindy Craigmiles	200 N. Lafayette, Suite 6	Jerseyville	IL	62052	618-498-5571 x146	codeadmin1@jerseycounty-il.us	Floodplain and Stormwater Development Permits	7/29/2016			Notice of Prefiling Letter
										8/5/2016			Open House Invitation Letter
Jersey County	Planning and Zoning	Craig McGraw					618-498-5571, ext. 112	codeadmin1@jerseycounty-il.us		10/6/2016	10/6/2016	Mr. McGraw	Telephone
										10/6/2016	10/6/2016	Mr. McGraw	Email
St. Louis County	Department of Highways and Traffic	James M. Knoll	41 South Central Ave	Clayton	MO	63105	314-615-8554	jmknoll@stlouisco.com	Floodplain, Land Disturbance Permits	7/29/2016			Notice of Prefiling Letter
										8/5/2016			Open House Invitation Letter
St. Louis County	Department of Planning	Gail Choate					314-615-2520			10/6/2016	10/6/2016	Ms. Choate	Telephone
St. Charles County	Community Development Department	Rich Gnecco	201 N Second St	St. Charles	MO	63301	636-949-1814 x7160	development@sccmo.org		7/29/2016			Notice of Prefiling Letter
										8/5/2016			Open House Invitation Letter
St. Charles County	Development Review Department	John Baron	201 N Second St	St. Charles	MO	63301	636-949-1817	jbarron@sccmo.org	Land Disturbance Permits, Natural Watercourse Permits	8/10/2016	8/10/2016	Mr. Baron	Telephone
										-	8/12/2016	Mr. Baron	Email
										-	8/17/2016	Mr. Baron	Email
St. Charles County	Floodplain Vision Board	Ellie Marr	201 N Second St	St. Charles	MO	63301	636-949-7900 x7235	emarr@sccmo.org	Floodplain Permits	7/29/2016			Notice of Prefiling Letter
										8/5/2016			Open House Invitation Letter
St. Charles County		Mick Zerr	201 N Second St	St. Charles	MO	63301	636-234-1192	mzerr@sccmo.org	Building Permits (if needed)				
St. Charles County	Highway Department	Charles Kuehler	201 N Second St	St. Charles	MO	63301	636-949-7305	ckuehler@sccmo.org	Special Use Permits				
St. Charles County	Community Development Department	Robert Myers	201 N Second St, Suite 420	St. Charles	MO	63301	636-949-7335, ext. 7225	rmyers@sccmo.org		9/13/2016	9/26/2016	Mr. Myers	Email
										9/28/2016	9/28/2016	Mr. Myers	Email

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Agency Correspondence - Federal, State, Local Agencies, and Native American Tribes

Agency	Region/ Division	Contact Name	Address	City	State	Zip	Contact Phone	Contact Email	Permit/Clearance/ Approval	Date Sent	Response Type/ Date	Responding Contact	Correspondence
City of West Alton	Planning and Zoning Commissioner	Jason Farley	P.O. Box 42, West Alton City Hall	West Alton	MO	63386	314-306-4695		Land Use Permit	7/29/2016			Notice of Prefiling Letter
										8/5/2016			Open House Invitation Letter
										10/6/2016	10/12/2016	Mr. Farley	Voice mail and Telephone
City of West Alton	Floodplain Administrator	Janet Neustadt	P.O. Box 42, West Alton City Hall	West Alton	MO	63386	636-899-0233		Floodplain Permit	7/29/2016			Notice of Prefiling Letter
										8/5/2016			Open House Invitation Letter
Spanish Lake Community Association		TBD	11726 Larimore Rd	St. Louis	MO	63138				8/5/2016			Open House Invitation Letter
University of Illinois	Illinois Natural History Survey - Prairie Research Institute	Christopher Phillips	1885 Natural Resources Bldg, 607 E. Peabody Dr	Champaign	IL	61820	217-244-7077	cphilli@illinois.edu, lithasia@gmail.com	Timber Rattlesnake Survey Information	8/26/2016	8/26/2016	Mr. Phillips	Telephone
										8/29/2016	8/29/2016	Mr. Phillips	Email
										9/1/2016	9/1/2016	Mr. Phillips	Email
										9/1/2016	9/1/2016	Mr. Phillips	Telephone
										10/17/2016	10/17/2016	Mr. Phillips	Email
Roodhouse, Illinois	City Clerk	Patty Plahn					217-589-4351			10/12/2016	10/12/2016	Ms. Plahn	Telephone
White Hall, Illinois	City Clerk	Mona McMillan	116 East Sherman Street	White Hall	IL	62092	217-374-2345			10/12/2016	10/12/2016	Ms. McMillan	Telephone
Carrollton, Illinois	City Clerk	Mike Schneider					217-942-3814			10/12/2016	10/12/2016		Telephone
										10/17/2016	10/17/2016	Mr. Schneider	Telephone
Native American Tribes													
Absentee-Shawnee Tribe of Indians of Oklahoma	Tribal Historic Preservation Officer	Leonard Longhorn	2025 South Gordon Cooper Drive	Shawnee	OK	74801	405-275-4030	leonard.longhorn@astribe.com	Native American Coordination	6/30/2016			Voice mail
										7/29/2016			Notice of Prefiling Letter
										8/16/2016			Open House Invitation Letter
Delaware Nation		Ms. Nekole Allgood	P.O. Box 825 31064 State Highway 281	Anadarko	OK	73005	405-247-2448	nallgood@delawarenation.com	Native American Coordination	6/30/2016			Voice mail
										7/29/2016			Notice of Prefiling Letter
										8/16/2016			Open House Invitation Letter
Delaware Tribe of Indians	Historic Preservation Office	Dr. Brice Obermeyer	1200 Commercial Street Roosevelt Hall, Room 212	Emporia	KS	66801	918-335-7026	bobermeyer@delawaretribe.org	Native American Coordination	6/30/2016			Attempted Telephone Call, No Response
										7/29/2016			Notice of Prefiling Letter
										8/16/2016			Open House Invitation Letter
Eastern Shawnee Tribe of Oklahoma	Cultural Preservation Director	Ms. Robin Dushane	P.O. Box 350 127 West Oneida	Seneca	MO	64865	918-666-2435, ext. 247 (Office) 918-801-6677 (Cell)	radushane@gmail.com	Native American Coordination	6/30/2016			Voice mail
										7/29/2016			Notice of Prefiling Letter
										8/16/2016			Open House Invitation Letter
Iowa Tribe of Kansas and Nebraska	Tribal Historic Preservation Officer	Mr. Lance M. Foster	3345 B. Thrasher Road	White Cloud	KS	66094	785-595-3258	lfoster@iowas.org	Native American Coordination	6/30/2016	7/6/2016	Mr. Foster	Telephone
										7/29/2016			Notice of Prefiling Letter
										8/16/2016			Open House Invitation Letter
Iowa Tribe of Oklahoma	Division Director	Patrick Durham	R.R. 1, Box 721	Perkins	OK	74059-9599	405-547-5433, ext. 350	pdurham@iowanation.org	Native American Coordination	6/30/2016	6/30/2016	Mr. Durham	Telephone
										7/29/2016			Notice of Prefiling Letter
										8/16/2016			Open House Invitation Letter
Kaw Indian Nation of Oklahoma	Museum Director	Ms. Crystal Douglas	Drawer 50	Kaw City	OK	74641	580-269-2552	Crystal_douglas@kawnation.com	Native American Coordination	6/30/2016	6/30/2016	Ms. Douglas	Telephone
										8/16/2016			Open House Invitation Letter
										8/30/2016			Voice mail
										9/6/2016			Email
										9/21/2016	9/21/2016	Ms. Douglas	Telephone
Kaw Indian Nation of Oklahoma	Chairman	Ms. Jacqlyn Secondine Hensley						execsec@kawnation.com	Native American Coordination	7/29/2016, 8/9/16			Notice of Prefiling Letter, courtesy follow up copy by email
										8/16/2016			Open House Invitation Letter
										9/6/2016			Email
Kickapoo Tribe in Kansas	NAGPRA Director	Ms. Nellie Cadue	1107 Gold Finch Road P.O. Box 271	Horton	KS	64439	785-486-2601, ext. 5		Native American Coordination	6/30/2016			Voice mail
										7/29/2016			Notice of Prefiling Letter
										8/16/2016			Open House Invitation Letter

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Kickapoo Traditional Tribe of Texas	Director	Mr. Juan Garza, Jr.	HCR 1, Box 9700	Eagle Pass	TX	78852	830-758-1936	juangarza73@yahoo.com	Native American Coordination	6/30/2016			Voice mail
										7/29/2016	Delivery Refused		Notice of Prefiling Letter
										8/16/2016			Open House Invitation Letter
Kickapoo Tribe of Oklahoma	Attorney/Preservation Rep	Kent Collier	PO Box 70	McCloud	OK	74851	405-964-4227	kcollier@kickapootribeofoklahoma.com	Native American Coordination	6/30/2016			Voice mail
										7/29/2016			Notice of Prefiling Letter
										8/16/2016			Open House Invitation Letter
Miami Tribe of Oklahoma	Acting Tribal Historic Preservation Officer	Ms. Diane Hunter	P.O. Box 1326	Miami	OK	74355	918-541-8966	dhunter@miamination.com	Native American Coordination	6/30/2016	6/30/2016	Ms. Hunter	Telephone
										7/29/2016, 8/9/16			Notice of Prefiling Letter, courtesy follow up copy by email
										-	8/12/2016	Ms. Hunter	Email
										8/16/2016	6/30/2016	Mr. Fox	Open House Invitation Letter
Osage Nation	Archaeologist	John Fox	P.O. Box 779 627 Grandview	Pawhuska	OK	74056	918-287-5328	ahunter@osagetribe.org	Native American Coordination	6/30/2016	6/30/2016	Mr. Fox	Telephone
										7/29/2016	8/16/2016	Mr. Fox	Notice of Prefiling Letter; Email Response
										8/16/2016			Open House Invitation Letter
										8/18/2016	8/18/2016	Mr. Fox	Telephone
										9/6/2016			Email
Peoria Tribe of Indians of Oklahoma		Logan Davenport	PO Box 1527 118 S. Eight Tribes Trails	Miami	OK	74355	918-540-2535	ldavenport@peoriatribes.com	Native American Coordination	7/1/2016			Voice mail
										7/29/2016			Notice of Prefiling Letter
										8/16/2016			Open House Invitation Letter
Ponca Tribe of Nebraska	Tribal Historic Preservation Officer	Mr. Shannon Wright	P.O. Box 288	Niobrara	NE	68760	402-857-3519		Native American Coordination	7/1/2016	7/1/2016	Mr. Wright	Telephone
										7/29/2016			Notice of Prefiling Letter
										8/16/2016			Open House Invitation Letter
Ponca Tribe of Oklahoma	Tribal Historic Preservation Officer	Ms. Halona Clawson	20 White Eagle Drive	Ponca City	OK	74601	580-762-8104	halona.clawson@ponca.com	Native American Coordination	7/1/2016			Attempted Telephone Call, No Response
										7/29/2016			Notice of Prefiling Letter
										8/16/2016			Open House Invitation Letter
Citizen Potawatomi Nation		Andrew Gourd	1601 S. Gordon Cooper Drive	Shawnee	OK	74801	405-878-5830	andrew.gourd@potawatomi.org	Native American Coordination	7/1/2016			Voice mail
										7/29/2016			Notice of Prefiling Letter
										8/16/2016			Open House Invitation Letter
Forest County Potawatomi	Tribal Historic Preservation Officer	Ms. Melissa Cook	Cultural Center, Library & Museum PO Box 340 8130 Mishkoswen Drive	Crandon	WI	54520	800-960-5479	melissa.cook@fcpotawatomi-nsn.gov	Native American Coordination	7/1/2016			Attempted Telephone Call, No Response
										7/29/2016			Notice of Prefiling Letter
										8/16/2016			Open House Invitation Letter
Potawatomi Nation-Hannahville Indian Community	Council/Board	Mr. Kenneth Mechigaud	N14911 Hannahville B-1 Road	Wilson	MI	49896	906-466-9933	kennethmechigaud@hannahville.org	Native American Coordination	7/1/2016			Attempted Telephone Call, No Response
										7/29/2016			Notice of Prefiling Letter
										8/16/2016			Open House Invitation Letter
										10/19/2016			Voice mail
Pokagon Band of Potawatomi Indians	Tribal Historic Preservation Officer	Mr. Marcus Winchester	PO Box 180 58620 Sink Road,	Dowagiac	MI	49047	269-462-4224	marcus.winchester@pokagonband-nsn.gov	Native American Coordination	7/1/2016			Voice mail
										7/29/2016			Notice of Prefiling Letter
										8/16/2016			Open House Invitation Letter
Prairie Band Potawatomi Nation		Ms. Hattie Mitchell	16281 Q Road	Mayetta	KS	66509	785-966-4000	hattiem@pbpnation.org	Native American Coordination	7/1/2016			Voice mail
										7/29/2016			Notice of Prefiling Letter
										8/16/2016			Open House Invitation Letter
Quapaw Tribe of Oklahoma	Chairman	Mr. John Berrey	P.O. Box 765	Quapaw	OK	74363	888-641-4724		Native American Coordination	7/1/2016			Attempted Telephone Call, No Response
										7/29/2016			Notice of Prefiling Letter
										8/16/2016			Open House Invitation Letter
Quapaw Tribe of Oklahoma	THPO	Mr. Everett Bandy	P.O. Box 765	Quapaw	OK	74363		ebandy@quapawtribe.com	Native American Coordination	-	8/24/2016	Mr. Bandy	Letter
Sac and Fox Tribe of the Missouri in Kansas and Nebraska	Chair	Mr. Edmore Green	305 North Main	Reserve	KS	66434	785-742-7471	egreen@sacandfoxcasino.com	Native American Coordination	7/1/2016			Attempted Telephone Call, No Response
										7/29/2016			Notice of Prefiling Letter
										8/16/2016			Open House Invitation Letter
Sac and Fox Tribe of the Mississippi in Iowa	Historic Preservation Director	Mr. Johnathan L. Buffalo	349 Meskwaki Road	Tama	IA	52339	641-484-3185	jlbuffalo@meskwaki.org	Native American Coordination	7/1/2016	7/1/2016	Mr. Buffalo	Telephone
										7/29/2016, 8/9/16			Notice of Prefiling Letter, courtesy follow up copy by email
										8/16/2016			Open House Invitation Letter

**Spire STL Pipeline
Agency Correspondence Tracking List
Appendix 1-C**

Agency Correspondence - Federal, State, Local Agencies, and Native American Tribes

Agency	Region/ Division	Contact Name	Address	City	State	Zip	Contact Phone	Contact Email	Permit/Clearance/ Approval	Date Sent	Response Type/ Date	Responding Contact	Correspondence
Sac and Fox Nation of Oklahoma	Cultural Resources	Ms. Sandra Kaye Massey	920883 S. Hwy 99, Building A	Stroud	OK	74079	918-968-3526	smassey@sacandfoxnation-nsn.gov	Native American Coordination	7/1/2016			Voicemail
										7/29/2016			Notice of Prefiling Letter
										8/16/2016			Open House Invitation Letter
Ho-Chunk Nation	THPO	Bill Quackenbush	PO Box 667	Black River Falls	WI	54815	715-284-7181 x1121	bill.quackenbush@ho-chunk.com	Native American Coordination	10/19/2016	10/19/2016	Mr. Quackenbush	Telephone
										10/27/2016			Letter
Winnebago Tribe of Nebraska	THPO	John Blackhawk	PO Box 687	Winnebago	NE	68071	402-878-3103	jblackhawk@aol.com	Native American Coordination	10/19/2016			Voicemail
										10/27/2016			Letter
Huron Potawatomi Nation	Council/Board	Robyn Burlingham	1484 Mno-Bmadzewen Way	Fulton	MI	49502	269-704-8373	rburlingham@nhbpi.com	Native American Coordination	10/19/2016	10/19/2016	Ms. Burlingham	Telephone
										10/27/2016			Letter
Match-e-be-nash-she-wish Band of Potawatomi Indians of Michigan	THPO	DJ Hoffman	PO Box 218	Dorr	MI	49323	906-632-6896		Native American Coordination	10/19/2016			Voicemail
										10/27/2016			Letter
Shawnee Tribe	Cultural Resources	Jodi Hayes	PO Box 189	Miami	OK	74355	918-542-2441		Native American Coordination	10/19/2016			Voicemail
										10/27/2016			Letter
Cherokee Nation	Cultural Resources	Dr. Richard Allen	PO Box 948	Tahlequah	OK	74465	918-456-6485		Native American Coordination	10/19/2016			Voicemail
										10/27/2016			Letter
United Keetoowah Band of Cherokee Indians of Oklahoma	THPO	Eric Oosahwee-Voss	PO Box 746	Tahlequah	OK	74465	918-456-8698		Native American Coordination	10/19/2016			Voicemail
										10/27/2016			Letter
Non-Governmental Organizations ("NGOs") and Environmental NGOs													
Alton Fire Department	Chief	Bernie Sebold	333 E 20th Street	Alton	IL	62002	618-463-3565			10/6/2016			Letter
Alton Volunteer Emergency Corps	President	Harold Waggoner	2400 Bloomer Dr	Alton	IL	62002	618-462-2202			10/6/2016			Letter
American Bottomlands Conservancy		TBD	527 Washington Place	East St. Louis	IL	62205				10/6/2016			Letter
Audubon Missouri	VP and Executive Director	Patricia Hagen	301 Riverlands Way	West Alton	MO	63386	636-899-0090	phagen@audubon.org		10/6/2016			Letter
Audubon Society-Illinois	Executive Director	Tom Clay	2315 Clear Lake Ave	Springfield	IL	62706	217-544-2473	tclay@illinoisaudubon.org		10/6/2016			Letter
Audubon Society-Missouri	President	Shari Harden	2101 W Broadway PMB 122	Columbia	MO	65203				10/6/2016			Letter
Center for American Archaeology		TBD	P.O. Box 366	Kampsville	IL	62053	618-653-4316	caa@caa-archaeology.org		10/6/2016			Letter
Chicago 350	Executive Director	May Boeve	20 Jay Street Suite 732	Brooklyn	NY	11201		may@350.org		10/6/2016			Letter
City of Jerseyville Economic Development	Director of Building & Zoning and Director of Economic Development	Jeff Soer	115 East Prarie Street	Jerseyville	IL	62052	618-498-3312	jeffsoer@jerseyville-il.us		10/6/2016			Letter
Ducks Unlimited - Illinois	Manager of Conservation	Mark Flaspohler	101 Park De Ville Dr, Suite B	Columbia	MO	65203	573-234-2132 EX: 178	mflaspohler@ducks.org		10/6/2016			Letter
Ducks Unlimited -Missouri	Manager of Conservation	Mark Flaspohler	101 Park De Ville Dr, Suite B	Columbia	MO	65203	573-234-2132 EX: 178	mflaspohler@ducks.org		10/6/2016			Letter
Earthjustice	President	Trip Van Noppen	50 California Street Suite 500	San Francisco	CA	94111	800-584-6460	headquarters@earthjustice.org		10/6/2016			Letter
Environment Illinois	Energy Program Director	Rob Sargent	328 S. Jefferson St Suite 620	Chicago	IL	60661	617-747-4317			10/6/2016			Letter
Great Rivers Greenway	Executive Director	Susan Trautman	6178 Delmar Boulevard	St. Louis	MO	63112	314-436-7009	strautman@grgstl.org		10/6/2016			Letter
Great Rivers Habitat Alliance	Executive Director	David Stokes	P.O. Box 50014	St. Louis	MO	63150	314-918-1351	info@grha.org		10/6/2016			Letter

**Spire STL Pipeline
Agency Correspondence Tracking List
Appendix 1-C**

Agency Correspondence - Federal, State, Local Agencies, and Native American Tribes

Agency	Region/ Division	Contact Name	Address	City	State	Zip	Contact Phone	Contact Email	Permit/Clearance/ Approval	Date Sent	Response Type/ Date	Responding Contact	Correspondence
Great Rivers Land Trust	President	John Williams	P.O. Box 821	Alton	IL	62002	618-467-2265			10/6/2016			Letter
Greene County Economic Development Group	Director	Jim Mager	314 5th St	Carrollton	IL	62016	618-980-5036	gcedginc@gmail.com		10/6/2016			Letter
Heartwood	Heartwood Coordinator, Illinois	Tabatha Tripp	P.O. Box 1926	Bloomington	IN	47402	740-591-8166	info@heartwood.org		10/6/2016			Letter
Illinois Chamber of Commerce	President and CEO	Todd Maisch	215 E Adams St	Springfield	IL	62701	217-522-5512 EX: 233	tmaisch@ilchamber.org		10/6/2016			Letter
Illinois Energy Council		Katie Stonewater	215 E Adams St	Springfield	IL	62701				10/6/2016			Letter
Jacksonville Regional Economic Development Council	Vice President	Bonni Waters	221 E State St	Jacksonville	IL	62650	217.479.4627	bonni@fredc.org		10/6/2016			Letter
Missouri Caves and Karst Conservancy	President	Alicia Wallace	P.O. Box 190456	St. Louis	MO	63119		president@mocavesandkarst.org		10/6/2016			Letter
Missouri Chamber of Commerce	President and CEO	Daniel Mehan	428 East Capitol Ave	Jefferson City	MO	65101	573-634-3511			10/6/2016			Letter
Missouri Coalition for the Environment	Executive Director	Heather Navarro	3115 S Grand Blvd Suite 650	St. Louis	MO	63118	314-727-0600	hnavarro@moenviron.org		10/6/2016			Letter
Nature Conservancy - Missouri	State Director	Adam McLane	2800 S Brentwood Blvd	St. Louis	MO	63144	314-968-1105	missouri@tnc.org		10/6/2016			Letter
Nature Conservancy - Illinois	State Director	Michelle Carr	8 S Michigan Ave Suite 900	Chicago	IL	60603	312-580-2100	illinois@tnc.org		10/6/2016			Letter
Old Jamestown Association	President	Ellen Lutzow	P.O. Box 2223	Florissant	MO	63032	314-550-0184			10/6/2016			Letter
One Mississippi Campaign	Campaign Coordinator	Brooke Thurau	14 N Peoria St Suite 4F	Chicago	IL	60607	312-754-0402	bthurau@bluestemcommunications.org		10/6/2016			Letter
Rivers Pointe Fire Department	Chief	Richard Pender	100 Firehouse Drive	West Alton	MO	63386	636-899-1122	info@rpfpd.com		10/6/2016			Letter
Scott County Development Corporation	President	Pat Van DeVelde	35 E Market Street	Winchester	IL	62694		pat@peakinsuranceagency.net		10/6/2016			Letter
Sierra Club - Illinois Chapter	Chapter Director	Jack Darin	70 E Lake Street Suite 1500	Chicago	IL	60601	312-251-1680 ext. 112	jack.darin@sierraclub.org		10/6/2016			Letter
Sierra Club - Missouri Chapter	Chapter Director	John Hickey	2818 Sutton Blvd	St. Louis	MO	63143	314-644-1011	missouri.chapter@sierraclub.org		10/6/2016			Letter
St. Charles County Economic Development Center	President and CEO	Greg Prestemon	5988 Mid Rivers Mall Drive	St. Charles	MO	63304	636-441-6880	gprestemon@edcscc.com		10/6/2016			Letter
St. Louis Economic Development Partnership	Staff Contact	Kelly Applegate	7733 Forsyth Blvd Suites 2200 & 2300	St. Louis	MO	63105	314.615.7688	info@stlpartnership.com		10/6/2016			Letter
Trout Unlimited Mid-Missouri	President	Ryan Verkamp	1777 N Kent Street Suite 100	Arlington	VA	22209	573-817-0631	Ryan.Verkamp@gmail.com		10/6/2016			Letter



Under Separate Cover



United States Army Corps of Engineers



United States Fish and Wildlife Service



Additional Correspondence with Federal Agencies



State Agencies - Illinois



State Agencies - Missouri



Local Agencies and Governments



Native American Tribes



NGOs/ENGOS



APPENDIX 1-D
Landowner Complaint Resolution Process



Spire STL Pipeline Project

Landowner Complaint Resolution Process

FERC Docket No. PF16-9-000

Draft
October 2016

Public



Table of Contents

- Landowner Complaint Resolution Process 1
 - Step 1: Gather Information 1
 - Step 2: Define the Inquiry/Issue 1
 - Step 3: Resolution 1



Acronyms and Abbreviations

Project	Spire STL Pipeline Project
Spire	Spire STL Pipeline LLC



Landowner Complaint Resolution Process

Spire STL Pipeline LLC (“Spire”) established its Landowner Complaint Resolution process and protocol to address landowner concerns and answer questions during the construction of the Spire STL Pipeline Project (“Project”). The protocol utilizes the Project-specific 24-hour toll-free phone line (1-844-885-7234) and/or email submission to STLPipelineInfo@SpireEnergy.com. This same protocol will be utilized during the construction phase as well. These communication vehicles were created as a way for landowners and all stakeholders to contact Spire representatives with questions, concerns, and issues. The Project also keeps a formal record of all calls and emails received in order to effectively track inquiries and resolutions. The three-step process is as follows:

Step 1: Gather Information

Spire representatives will request all necessary information to complete the information section of the Inquiry/Issues Tracking Log. This includes the individual’s name, address, phone number, and Project reference along with any details offered regarding the purpose of the call.

Step 2: Define the Inquiry/Issue

Spire representatives will work with the individual to help understand and address their concerns. If the representatives can resolve the issue, they will record this on the Tracking Log. Otherwise, the individual will be advised that their concerns have been documented and that they can generally expect a return call within three business days from a Spire representative. The questions/concerns/issues, as documented on the Tracking Log, will then be directed to the appropriate Land agent.

Step 3: Resolution

If the issues are resolved during Step 2, the Spire representatives will complete the process by documenting how a resolution was reached for the Tracking Log. If a resolution is not reached during Step 2, the Tracking Log is forwarded to the appropriate land agent who will return the call and also update the Tracking Log with the resolution. The delegation of the issue should generally follow this progression until resolution is reached. If a land agent receives a direct phone call relating to the environmental, construction, or non-right-of-way/land issues from a landowner during pre-construction, construction, or post-construction activities, the agent will request all necessary information (as outlined in Step 1) and will initiate submission of the information on the Inquiry/Issues Tracking Log. The agent will then proceed to Steps 2 and 3 until a resolution is reached. After working with the Spire representatives and appropriate land agent, if the landowner is still not completely satisfied with the resolution, the individual should contact the FERC’s Landowner Helpline at 877-337-2237, or by email at Landownerhelp@ferc.gov.



APPENDIX 1-E
Stakeholder Lists

Appendix 1-E
Spire STL Pipeline
Native American Contact List

Contact Name	Blank	Contact Title	Contact Organization	Phone	Email	P. O. Box	Address Line 1	Address Line 2	City	Zip 1	Zip 2	State	Docket
Ms. Sandra Kaye Massey		Cultural Resources	Sac and Fox Nation of Oklahoma	918-968-3526	smassey@sacandfoxnation-nsn.gov		920883 S. Hwy 99	Bldg A	Stroud	74079		OK	PF16-9-000
Mr. Johnathan L. Buffalo		Historic Preservation Director	Sac and Fox Tribe of the Mississippi in Iowa	641-484-3185	jbuffalo@meskwaki.org		349 Meskwaki Road		Tama	52339		IA	PF16-9-000
Mr. Edmore Green		Chair	Sac and Fox Tribe of the Missouri in Kansas and Nebraska	785-742-7471	egreen@sacandfoxcasino.com		305 North Main		Reserve	66434		KS	PF16-9-000
Mr. John Berrey and Mr. Everett Bandy		Chairman and THPO	Quapaw Tribe of Oklahoma	888-641-4724	ebandy@quapawtribe.com	P.O. Box 765			Quapaw	74363		OK	PF16-9-000
Ms. Hattie Mitchell			Prairie Band Potawatomi Nation	785-966-4000	hattiem@pbpnation.org		16281 Q Road		Mayetta	66509		KS	PF16-9-000
Mr. Marcus Winchester		Tribal Historic Preservation Officer	Pokagon Band of Potawatomi Indians	269-462-4224	marcus.winchester@pokagonband-nsn.gov	P.O. Box 180	58620 Sink Road		Dowagiac	49047		MI	PF16-9-000
Mr. Kenneth Mechigaud			Potawatomi Nation-Hannahville Indian Community	906-466-9933	kennethmechigaud@hannahville.org		N14911 Hannahville B-1 Road		Wilson	49896		MI	PF16-9-000
Melissa Cook		Tribal Historic Preservation Officer	Forest County Potawatomi	800-960-5479	melissa.cook@fcpotawatomi-nsn.gov	P.O. Box 340	8130 Mishkoswen Drive	Cultural Center, Library & Museum	Crandon	54520		WI	PF16-9-000
Mr. Andrew Gourd			Citizen Potawatomi Nation	405-878-5830	andrew.gourd@potawatomi.org		1601 S. Gordon Cooper Drive		Shawnee	74801		OK	PF16-9-000
Halona Clawson		Tribal Historic Preservation Officer	Ponca Tribe of Oklahoma	580-762-8104	halona.clawson@ponca.com		20 White Eagle Drive		Ponca City	74601		OK	PF16-9-000
Mr. Shannon Wright		Tribal Historic Preservation Officer	Ponca Tribe of Nebraska	402-857-3519	N/A	P.O. Box 288			Niobrara	68760		NE	PF16-9-000
Mr. Logan Davenport			Peoria Tribe of Indians of Oklahoma	918-540-2535	ldavenport@peoriatribe.com	P.O. Box 1527	118 S. Eight Tribes Trails		Miami	74355		OK	PF16-9-000
Mr. John Fox		Archaeologist	Osage Nation	918-287-5328	ahunter@osagetribe.org	P.O. Box 779	627 Grandview		Pawhuska	74056		OK	PF16-9-000
Ms. Diane Hunter		Acting Tribal Historic Preservation Officer	Miami Tribe of Oklahoma	918-541-8966	dhunter@miamination.com	P.O. Box 1326			Miami	74355		OK	PF16-9-000
Mr. Kent Collier		Attorney/Preservation Rep	Kickapoo Tribe of Oklahoma	405-964-7053	kcollier@kickapootribeofoklahoma.com	P.O. Box 70			McCloud	74851		OK	PF16-9-000
Mr. Juan Garza, Jr.		Chairman	Kickapoo Traditional Tribe of Texas	830-758-1936	juangarza73@yahoo.com		HCR 1, Box 9700		Eagle Pass	78852		TX	PF16-9-000
Ms. Nellie Cadue		NAGPRA Director	Kickapoo Tribe in Kansas	785-486-2601, ext. 5	N/A	P.O. Box 271	1107 Gold Finch Road		Horton	64439		KS	PF16-9-000
Ms. Jacqlyn Secondine Hensley and Ms. Crystal Douglas		Chairman and Museum Director	Kaw Indian Nation of Oklahoma	580-269-2552	execsec@kawnation.com Crystal_douglas@kawnation.com	Drawer 50			Kaw City	74641		OK	PF16-9-000
Mr. Patrick Durham		Division Director	Iowa Tribe of Oklahoma	405-547-5433, ext. 350	pdurham@iowanation.org		R.R. 1, Box 721		Perkins	74059	9599	OK	PF16-9-000
Mr. Lance M. Foster		Tribal Historic Preservation Officer	Iowa Tribe of Kansas and Nebraska	785-595-3258	lfoster@iowas.org		3345 B. Thrasher Road		White Cloud	66094		KS	PF16-9-000
Ms. Robin Dushane		Cultural Preservation Director	Eastern Shawnee Tribe of Oklahoma	918-666-2435, ext. 247	radushane@gmail.com	P.O. Box 350	127 West Oneida		Seneca	64865		MO	PF16-9-000
Dr. Brice Obermeyer		Director, Historic Preservation Office	Delaware Tribe of Indians	918-335-7026	bobermeyer@delawaretribe.org		1200 Commercial St	Roosevelt Hall, Rm 212	Emporia	66801		KS	PF16-9-000
Nekole Alligood			Delaware Nation	405/247-2448	nalligood@delawarenation.com	P.O. Box 825	31064 State Highway 281		Anadarko	73005		OK	PF16-9-000
Mr. Leonard Longhorn		Tribal Historic Preservation Officer	Absentee-Shawnee Tribe of Indians of Oklahoma	405-275-4030	leonard.longhorn@astribe.com		2025 South Gordon Cooper Drive		Shawnee	74801		OK	PF16-9-000
Bill Quackenbush		Tribal Historic Preservation Officer	Ho-Chunk Nation	715-284-7181 x1121	bill.quackenbush@ho-chunk.com	PO Box 667			Black River Falls	54815		WI	PF16-9-000
John Blackhawk		Tribal Historic Preservation Officer	Winnebago Tribe of Nebraska	402-878-3103	jblackhawk@aol.com	PO Box 687			Winnebago	68071		NE	PF16-9-000
Robyn Burlingham		Council/Board	Huron Potawatomi Nation	269-704-8373	rburlingham@nhbpi.com		1484 Mno-Bmadzewen Way		Fulton	49502		MI	PF16-9-000
DJ Hoffman		Tribal Historic Preservation Officer	Match-e-be-nash-she-wish Band of Potawatomi Indians of Michigan	906-632-6896		PO Box 218			Dorr	49323		MI	PF16-9-000
Jodi Hayes		Archaeologist	Shawnee Tribe	918-542-2441		PO Box 189			Miami	74355		OK	PF16-9-000
Dr. Richard Allen		Archaeologist	Cherokee Nation	918-456-6485		PO Box 948			Tahlequah	74465		OK	PF16-9-000
Eric Oosahwee-Voss		Acting Tribal Historic Preservation Officer	United Keetoowah Band of Cherokee Indians of Oklahoma	918-456-8698		PO Box 746			Tahlequah	74465		OK	PF16-9-000

Tribal Historic Preservation Officer ("THPO") contacts will be refined through consultation with each respective State Historic Preservation Office ("SHPO") and will only include those Native American groups that have interest within the Project area
Yellow highlighting indicates revised contact names which were added after 10/14/2016.

Appendix 1-E
 Spire STL Pipeline
 Environmental and Non-Governmental Organizations ("NGOs, NGOs") Contact List

Contact Type	Contact Name	Blank	First Name	Last Name	Contact Title	Contact Organization	Phone	Email	P. O. Box	Address Line 1	Address Line 2	City	Zip 1	Zip 2	State	Docket
ENGO	Mark Flaspohler		Mark	Flaspohler	Manager of Conservation	Ducks Unlimited-Missouri	573-234-2132 EX: 178	mflaspohler@ducks.org		101 Park DeVille Drive	Suite B	Columbia	65203		MO	PF16-9-000
ENGO	Mark Flaspohler		Mark	Flaspohler	Manager of Conservation	Ducks Unlimited-Illinois	573-234-2132 EX: 178	mflaspohler@ducks.org		101 Park DeVille Drive	Suite B	Columbia	65203		MO	PF16-9-000
ENGO	Brooke Thureau		Brooke	Thureau	Campaign Coordinator	One Mississippi Campaign	312-754-0402	btureau@bluestemcommunications.org		14 N. Peoria Street	Suite 4F	Chicago	60607		IL	PF16-9-000
ENGO	May Boeve		May	Boeve	Executive Director	Chicago 350		mav@350.org		20 Jay Street	Suite 732	Brooklyn	11201		NY	PF16-9-000
ENGO	Shari Harden		Shari	Harden	President	Audubon Society-Missouri				2101 W. Broadway	PMB 122	Cloumbia	65203	1261	MO	PF16-9-000
ENGO	Tom Clay		Tom	Clay	Executive Director	Audubon Society-Illinois	217-544-2473	tclay@illinoisaudubon.org		2315 Clear Lake Avenue		Springfield	62703		IL	PF16-9-000
ENGO	Adam McLane		Adam	McLane	State Director	Nature Conservancy-Missouri	314-968-1105	missouri@tnc.org		2800 S. Brentwood Blvd		Saint Louis	63144		MO	PF16-9-000
ENGO	John Hickey		John	Hickey	Chapter Director	Sierra Club - Missouri Chapter	314-644-1011	missouri.chapter@sierraclub.org		2818 Sutton Blvd		St. Louis	63143		MO	PF16-9-000
ENGO	Patricia Hagen		Patricia	Hagen	VP and Executive Director	Audubon Missouri	636-899-0090	phagen@audubon.org		301 Riverlands Way		West Alton	63386		MO	PF16-9-000
ENGO	Heather Brouillet Navarro		Heather	Navarro	Executive Director	Missouri Collalition for the Enviornment	314-727-0600	hnavarro@moenviron.org		3115 S. Grand Blvd	Suite 650	St. Louis	63118		MO	PF16-9-000
ENGO	Rob Sargent		Rob	Sargent	Energy Program Director	Environment Illinois	(617) 747-4317			328 S. Jefferson St.	Ste. 620	Chicago	60661		IL	PF16-9-000
ENGO	Trip Van Noppen		Trip	Van Noppen	President	Earthjustice	800-584-6460	headquarters@earthjustice.org		50 California Street	Suite 500	San Francisco	94111		CA	PF16-9-000
ENGO	TBD		TBD	TBD		American Bottomlands Conservancy	N/A	N/A		527 Washington Place		East St. Louis	62205		IL	PF16-9-000
ENGO	Susan Trautman		Susan	Trautman	Executive Director	Great Rivers Greenway	314-436-7009	strauman@gorgstl.org		6178 Delmar Boulevard		St. Louis	63112		MO	PF16-9-000
ENGO	Jack Darin		Jack	Darin	Chapter Director	Sierra Club - Illinois Chapter	312-251-1680 ext. 112	jack_darin@sierraclub.org		70 E Lake Street	Suite 1500	Chicago	60601		IL	PF16-9-000
ENGO	Michelle Carr		Michelle	Carr	State Director	Nature Conservancy-Illinois	312-580-2100	illinois@tnc.org		8 S. Michigan Ave	Suite 900	Chicago	60603		IL	PF16-9-000
ENGO	David Stokes		David	Stokes	Executive Director	Great Rivers Habitat Alliance	314-918-1351	dinfo@grha.org	P.O. Box 50014			St. Louis	63150		MO	PF16-9-000
ENGO	Alicia Wallace		Alicia	Wallace	President	Missouri Caves & Karst Conservancy		president@mocavesandkarst.org	P.O. Box 190456			St. Louis	63119		MO	PF16-9-000
ENGO	Ryan Verkamp		Ryan	Verkamp	President	Trout Unlimited Mid-Missouri	573-817-0631	Ryan.Verkamp@gmail.com		1777 N. Kent Street	Suite 100	Arlington	22209		VA	PF16-9-000
ENGO	John Williams		John	Williams	President	Great Rivers Land Trust	618-467-2265		P. O. Box 821		Alton	62002		IL	PF16-9-000	
ENGO	Tabatha Tripp		Tabatha	Tripp	Heartwood Coordinator, Illinois	Heartwood	740-591-8166	info@heartwood.org	P.O. Box 1926			Bloomington	47402		IN	PF16-9-000
ENGO	TBD		TBD	TBD	Chief	Center for American Archeology	618-653-4316	caaa@caa-archeology.org	P.O. Box 366			Kampsville	62053		IL	PF16-9-000
NGO	Richard Pender		Richard	Pender	Chief	Rivers Pointe Fire Department	636-899-1122	info@rpfcd.com		100 Firehouse Drive		West Alton	63386		MO	PF16-9-000
NGO	Jeff Soer		Jeff	Soer	Director of Building & Zoning and Director of Economic Development	City of Jerseyville Economic Development	618-498-3312	jeffsoer@jerseyville-il.us		115 East Prairie Street		Jerseyville	62052		IL	PF16-9-000
NGO	Jaime Aslin		Jaime	Aslin	Manager	Two Rivers Marina	217-437-2321	jaimae@tworiversmarina.com		13495 U.S. Hwy 54		Rockport	62370		IL	PF16-9-000
NGO	Todd Maisch		Todd	Maisch	President and CEO	Illinois Chamber of Commerce	217-522-5512 EX: 233	tmaisch@ilchamber.org		215 E. Adams St.		Springfield	62701		IL	PF16-9-000
NGO	Bonni L. Waters		Bonni	Waters	Vice President	Jacksonville Regional Economic Development Council	217-479-4627	bonni@jredc.org		221 E. State St		Jacksonville	62650		IL	PF16-9-000
NGO	Harold Waggoner		Harold	Waggoner	President	Alton Volunteer Emergency Corps	618-462-2202			2400 Bloomer Dr		Alton	62002		IL	PF16-9-000
NGO	Jim Mager		Jim	Mager	Director	Greene County Economic Development Group, Inc.	618-980-5036	cedeginc@gmail.com		314 5th Street		Carrollton	62016		IL	PF16-9-000
NGO	Bernie Sebold		Bernie	Sebold	Chief	Alton Fire Department	618-463-3565			333 E. 20th Street		Alton	62002		IL	PF16-9-000
NGO	Daniel Mehan		Daniel	Mehan	President and CEO	Missouri Chamber of Commerce	573-634-3511			428 East Capitol Ave		Jefferson City	65101		MO	PF16-9-000
NGO	Greg Prestemon		Greg	Prestemon	President and CEO	St. Charles County Economic Development Center	636-441-6880	gprestemon@edcsc.com		5988 Mid Rivers Mall Drive		St. Charles	63304		MO	PF16-9-000
NGO	Kelly Applegate		Kelly	Applegate	Staff Contact	St. Louis Economic Development Partnership	314.615.7688	info@stlpartnership.com		7733 Forsyth Blvd	Suites 2200 & 2300	St. Louis	63105		MO	PF16-9-000
NGO	Pat Van DeVelde		Pat	Van DeVelde	President	Scott County Development Corporation	N/A	pat@peakinsuranceagency.net		35 E. Market Street		Winchester	62694		IL	PF16-9-000
NGO	Elen Lutzow		Elen	Lutzow	President	Old Jamestown Association	314-550-0184	N/A	P.O. Box 2223			Florissant	63032		MO	PF16-9-000

Appendix 1-E
 Spire STL Pipeline
 Newspaper and Library Contact List

Contact Name	Blank	First Name	Last Name	Contact Title	Contact Organization	Phone	Email	P. O. Box	Address Line 1	Address Line 2	City	Zip 1	Zip 2	State	Docket
Nichole Liehr		Nichole	Liehr	Advertising Director, General Manager	Scott County Times	217-285-2345	nliehr@campbellpublications.net		115 W. Jefferson		Pittsfield	62363		IL	PF16-9-000
Nichole Liehr		Nichole	Liehr	Advertising Director, General Manager	Greene Prairie Press	217-285-2345	nliehr@campbellpublications.net		115 W. Jefferson		Pittsfield	62363		IL	PF16-9-000
Nichole Liehr		Nichole	Liehr	Advertising Director, General Manager	Jersey County Journal	217-285-2345	nliehr@campbellpublications.net		115 W. Jefferson		Pittsfield	62363		IL	PF16-9-000
Bob Huneke		Bob	Huneke	Publisher	O'Fallon Community News	636-379-1780	bhuneke@mycnews.com		2139 Bryan Valley Commercial Drive		O'Fallon	63366		MO	PF16-9-000
Bob Lindsey		Bob	Lindsey	Publisher	FloValley News	314-831-4645	independentnews@aol.com		25 St. Anthony Lane		Florissant	63031		MO	PF16-9-000
Matt Ceresia		Matt	Ceresia	Advertising	St. Louis Business Journal	314-421-8343	mceresia@bizjournals.com		815 Olive St.	Suite 100	St. Louis	63101		MO	PF16-9-000
Bob Botelho		Bob	Botelho	Account Manager, Strategic Media	Gas Daily	720-264-6618	Robert.Botelho@snglobal.com		1800 Larimer St.	Suite 2000	Denver	80202		CO	PF16-9-000
Darlene Smith		Darlene	Smith	Branch Manager	Winchester Public Library	217-742-3150	winplibrary@irtc.net		215 N Main St		Winchester	62694		IL	PF16-9-000
Angie Custer		Angie	Custer	Branch Manager	Carrollton Public Library	(217) 942-6715			509 S Main St		Carrollton	62016		IL	PF16-9-000
Anita Driver		Anita	Driver	Director	Jerseyville Public Library	618-498-9514	anitad@jerseyvillelibrary.org		105 N Liberty St		Jerseyville	62052		IL	PF16-9-000
Ann King		Ann	King	Branch Manager	St Charles City-County Library	(636) 753-3070	aking@stchlibrary.org		1825 Common Field St		Portage Des Sioux	63373		MO	PF16-9-000
Kristen Sorth		Kristen	Sorth	Director	St Louis County Library (Jamestown Bluffs Branch)	314-994-3300			4153 N Hwy 67		Florissant	63034		MO	PF16-9-000

Appendix 1-E
Spire STL Pipeline
Federal Stakeholder Contact List

Contact Name	Blank	First Name	Last Name	Contact Title	Contact Organization	Phone	Email	P. O. Box	Address Line 1	Address Line 2	City	Zip 1	Zip 2	State	Docket
Dick Durbin		Dick	Durbin	U.S. Senator	U.S. Senate	202-224-2152			711 Hart Senate Building		Washington	20510		DC	PF16-9-000
Dick Durbin		Dick	Durbin	U.S. Senator	U.S. Senate	217-492-4062			525 S. 8th Street		Springfield	62703		IL	PF16-9-000
Karla A. Hagan		Karla A.	Hagan	Legislative Fellow	U.S. Senate	201-224-2152	Karla_Hagan@Durbin.Senate.gov		711 Hart Senate Building		Washington	20510		DC	PF16-9-000
Mark Kirk		Mark	Kirk	U.S. Senator	U.S. Senate	202-224-2854			524 Hart Senate Office Building		Washington	20510		DC	PF16-9-000
Mark Kirk		Mark	Kirk	U.S. Senator	U.S. Senate	217-492-5089			607 East Adams	Ste.1520	Springfield	62701		IL	PF16-9-000
Jonathon VanderPlas		Jonathon	VanderPlas	Legislative Counsel	U.S. Senate	202-224-2854	Jon_VanderPlas@kirk.senate.gov		524 Hart Senate Office Building		Washington	20510		DC	PF16-9-000
Deborah Haffner		Deborah	Haffner	Outreach Coordinator	U.S. Senate	217-492-5089			607 East Adams	Ste. 1520	Springfield	62701		IL	PF16-9-000
Rodney L. Davis		Rodney L.	Davis	U.S. Representative	U.S. House of Representatives	202-225-2371			1740 Longworth House Office Building		Washington	20515		DC	PF16-9-000
Rodney L. Davis		Rodney L.	Davis	U.S. Representative	U.S. House of Representatives	217-791-6224			2833 S Grand Ave. East		Springfield	62703		IL	PF16-9-000
Miles Chiotti		Miles	Chiotti	Legislative Assistant	U.S. House of Representatives	202-225-2371	Miles.Chiotti@Mail.house.gov		1740 Longworth House Office Building		Washington	20515		DC	PF16-9-000
Phillip Lesseigne		Phillip	Lesseigne	Projects and Grants Director	U.S. House of Representatives	618-205-8660			15 Professional Park Drive		Maryville	62062		IL	PF16-9-000
Darin LaHood		Darin	LaHood	U.S. Representative	U.S. House of Representatives	202-225-6201			2464 Rayburn House Office Building		Washington	20515		DC	PF16-9-000
Darin LaHood		Darin	LaHood	U.S. Representative	U.S. House of Representatives	309-671-7027			100 NE Monroe Street	Room 100	Peoria	61602		IL	PF16-9-000
Ashley Antoskiewicz		Ashley	Antoskiewicz	Legislative Director	U.S. House of Representatives	202-225-6201	Ashley.Antoskiewicz@mail.house.gov		2462 Rayburn House Office Building		Washington	20515		DC	PF16-9-000
Roy Blunt		Roy	Blunt	U.S. Senator	U.S. Senate	202-224-5721			260 Russell Senate Office Building		Washington	20510		DC	PF16-9-000
Roy Blunt		Roy	Blunt	U.S. Senator	U.S. Senate	314-725-4484			7700 Bonhomme	#315	Clayton	63105		MO	PF16-9-000
Downey Palmer Magallanes		Downey	Magallanes	Counsel	U.S. Senate	202-224-5721 202-2248148	Magallanes@S.unt.senate.gov		260 Russell Senate Office Building		Washington	20510		DC	PF16-9-000
Andrew Luck		Andrew	Luck	Legislative Correspondent	U.S. Senate	202-224-5721	Andrew_Lock@Blunt.senate.gov		260 Russell Senate Office Building		Washington	20510		DC	PF16-9-000
John Scates		John	Scates	Community Liason	U.S. Senate	314-725-4484	John_Scates@Blunt.Senate.gov		7700 Bonhomme Ave.	#315	Clayton	63105		MO	PF16-9-000
Mary Beth Wolf		Mary Beth	Wolf	District Office Director	U.S. Senate	314-725-4484	marybeth_Wolf@Blunt.Senate.gov		7700 Bonhomme Ave	#315	Clayton	63105		MO	PF16-9-000
Emily Romines		Emily	Romines	Senate Staffer	U.S. Senate				7700 Bonhomme Ave.	#315	Clayton	63105		MO	PF16-9-000
Claire McCaskill		Claire	McCaskill	U.S. Senator	U.S. Senate	202-224-6154			730 Hart Senate Office Building		Washington	20510		DC	PF16-9-000
Claire McCaskill		Claire	McCaskill	U.S. Senator	U.S. Senate	314-367-8649			5850 Delmar Blvd.	Ste. A	St. Louis	63112		MO	PF16-9-000
Heather M. Majors		Heather M.	Majors	Legislative Policy Advisor	U.S. Senate				730 Hart Senate Office Building		Washington	20510		DC	PF16-9-000
Patrick T. Bond		Patrick T.	Bond	Legislative Assistant	U.S. Senate				730 Hart Senate Office Building		Washington	201510		DC	PF16-9-000
Devine W. Shelton		Devine W.	Shelton	Field Representative	U.S. Senate	314-361-8649			5850 Delmar Blvd.	Ste. A	St. Louis	63112		MO	PF16-9-000
Wm. Lacy Clay		Wm. Lacy	Clay	U.S. Representative	U.S. House of Representatives	202-225-2406			2428 Rayburn House Office Building		Washington	20515		DC	PF16-9-000
Wm. Lacy Clay		Wm. Lacy	Clay	U.S. Representative	U.S. House of Representatives	314-367-1970			111 S. 10th Street	Suite 24.344	St. Louis	63102		MO	PF16-9-000
Wm. Lacy Clay		Wm. Lacy	Clay	U.S. Representative	U.S. House of Representatives	314-383-5240			1281 Graham Rd	Suite 202	Florissant	63031		MO	PF16-9-000
Tony Grandison		Tony	Grandison Jr.	Congressional Staffer	U.S. House of Representatives				1281 Graham Rd	Suite 202	Florissant	63031		MO	PF16-9-000
Blaine Luetkemeyer		Blaine	Luetkemeyer	U.S. Representative	U.S. House of Representatives	202-225-2956			2440 Rayburn House Office Building		Washington	20515		DC	PF16-9-000
Blaine Luetkemeyer		Blaine	Luetkemeyer	U.S. Representative	U.S. House of Representatives	573-635-7232			2117 Missouri Boulevard		Jefferson City	65109		MO	PF16-9-000

Appendix 1-E
Spire STL Pipeline
State Stakeholder Contact List

Contact Name	Blank	First Name	Last Name	Contact Title	Contact Organization	Phone	Email	P. O. Box	Address	Address 2	City	Zip 1	Zip 2	State	Docket
Bruce Rauner		Bruce	Rauner	Governor	Office of the Governor, State of Illinois	217-782-0244			207 State House		Springfield	62706		IL	PF16-9-000
Bruce Rauner		Bruce	Rauner	Governor	Office of the Governor, State of Illinois	312-814-2121			100 W. Randolph	JRTC - STE 16-100	Chicago	60601		IL	PF16-9-000
Alec Messina		Alec	Messina	Illinois Environmental Protection Agency	Office of the Governor, State of Illinois	(217) 782-3397	Alec.Messina@illinois.gov		207 State1021 North Grand Ave. East Springfield, IL 62794-9276 House		Springfield	62794		IL	PF16-9-000
Evelyn Sanguinetti		Evelyn	Sanguinetti	Lieutenant Governor	State of Illinois	217-558-3085			214 State House		Springfield	62706		IL	PF16-9-000
Evelyn Sanguinetti		Evelyn	Sanguinetti	Lieutenant Governor	State of Illinois	312-814-5240			100 W. Randolph	JRTC - STE 15-200	Chicago	60601		IL	PF16-9-000
Lisa Madigan		Lisa	Madigan	Attorney General	State of Illinois	217-782-1090			500 S. Second St.		Springfield	62706		IL	PF16-9-000
John J. Cullerton		John J.	Cullerton	President of the Senate	Illinois State Senate	217-782-2728			327 Capital Building		Springfield	62706		IL	PF16-9-000
Wm. Sam McCann		Wm. Sam	McCann	State Senator	Illinois State Senate	217-782-8206	SenatorMcCann@gmail.com		108 E. State Capital Building		Springfield	62706		IL	PF16-9-000
Wm. Sam McCann		Wm. Sam	McCann	State Senator	Illinois State Senate	217-245-0021			221 Dunlap Ct.		Jacksonville	62650		IL	PF16-9-000
William R. Haine		William R.	Haine	State Senator	Illinois State Senate	217-782-5247			311C Capital Building		Springfield	62706		IL	PF16-9-000
Patrick McGuire		Patrick	McGuire	State Senator	Illinois State Senate	217-782-8800			311B Capital Building		Springfield	62706		IL	PF16-9-000
Sue Rezin		Sue	Rezin	State Senator	Illinois State Senate	217-782-3840			309J Capital Building		Springfield	62706		IL	PF16-9-000
Michael J. Madigan		Michael J.	Madigan	State Representative	Illinois General Assembly	217-782-5350			300 Capital Building		Springfield	62706		IL	PF16-9-000
C. D. Davidsmeyer		C. D.	Davidsmeyer	State Representative	Illinois General Assembly	217-782-1840	repccdavidsmeyer@gmail.com		220- N Stratton Office Building		Springfield	62706		IL	PF16-9-000
C. D. Davidsmeyer		C. D.	Davidsmeyer	State Representative	Illinois General Assembly	217-243-6221			325 W. State St.		Jacksonville	62650		IL	PF16-9-000
Patrick J. Verschoore		Patrick J.	Verschoore	State Representative	Illinois General Assembly	217-782-5970			263-S Stratton Office Building		Springfield	62706		IL	PF16-9-000
Brandon W. Phelps		Brandon W.	Phelps	State Representative	Illinois General Assembly	217-782-5131			200-9S Stratton Office Building		Springfield	62706		IL	PF16-9-000
Daniel V. Beiser		Daniel V.	Beiser	State Representative	Illinois General Assembly	217-782-5996			269-S Stratton Office Building		Springfield	62706		IL	PF16-9-000
Linda Chapa LaVia		Linda	Chapa LaVia	State Representative	Illinois General Assembly	217-558-1002			229-E Stratton Office Building		Springfield	62706		IL	PF16-9-000
Raymond Poe		Raymond	Poe	Director	Illinois Department of Agriculture	217-782-2172		P.O. Box 19281	State Fair Grounds		Springfield	62794		IL	PF16-9-000
Warren D. Goetsch		Warren D.	Goetsch	Deputy Director	Illinois Department of Agriculture	217-785-4747	warren.goetsch@illinois.gov	P.O. Box 19281	State Fair Grounds		Springfield	62794		IL	PF16-9-000
Wayne Rosenthal		Wayne	Rosenthal	Director	Illinois Department of Natural Resources	217-785-0075	dnr.director@illinois.gov		One Natural Way		Springfield	62702		IL	PF16-9-000
Sean McCarthy		Sean	McCarthy	Acting Director	Illinois Department of Commerce and Economic Development	217-782-7500			500 E. Monroe		Springfield	62701		IL	PF16-9-000
Brien Sheahan		Brien	Sheahan	Chairman	Illinois Commerce Commission	217-782-7701			527 E. Capitol Ave	FL 007	Springfield	62701		IL	PF16-9-000
John Rosales		John	Rosales	Commissioner	Illinois Commerce Commission	312-814-2850			160 N. LaSalle	FL 008	Chicago	60601		IL	PF16-9-000
Ann McCabe		Ann	McCabe	Commissioner	Illinois Commerce Commission	312-814-2850			160 N. LaSalle	FL 008	Chicago	60601		IL	PF16-9-000
Miguel del Valle		Miguel	del Valle	Commissioner	Illinois Commerce Commission	312-814-2850			160 N. LaSalle	FL 008	Chicago	60601		IL	PF16-9-000
Sherina Maye Edwards		Sherina Maye	Edwards	Commissioner	Illinois Commerce Commission	312-814-2850			160 N. LaSalle	FL 008	Chicago	60601		IL	PF16-9-000
Jim Watson		Jim	Watson	Executive Director	Illinois Petroleum Council	217-544-7404			400 W Monroe St	#205	Springfield	62704		IL	PF16-9-000
Nick Williams		Nick	Williams	Associate Director	Illinois Petroleum Council	217-544-7404			400 W Monroe St	#205	Springfield	62704		IL	PF16-9-000
Kim Tribbet		Kim	Tribbet	Permit Supevisor	Illinois Dept of Transportation	217-524-7765	Michael.p.irwin@illinois.gov		126 E. Ash St.		Springfield	62702		IL	PF16-9-000
Michael P. Irwin		Michael P.	Irwin	Plans &Design Engineer	Illinois Dept of Transportation	217-782-7745	kim.tribbet@illinois.gov		126 E. Ash St.		Springfield	62702		IL	PF16-9-000
Katie Stonewater		Katie	Stonewater	Executive Director	Illinois Chamber of Commerce	618-540-8381 C	kstonewater@ilchamber.org		300 S. Wacker Dr.	Suite 1600	Chicago	60606		IL	PF16-9-000
Jay Nixon		Jay	Nixon	Governor	State of Missouri	573-751-3222		P.O. Box 720	Office of Governor Jay Nixon		Jefferson City	65102		MO	PF16-9-000
William Miller		William	Miller	Senior Policy Advisor	State of Missouri	573-645-8862	bill.miller@mo.gov		Office of the Governor Jay Nixon	State Capitol Building Room 216	Jefferson City	65102		MO	PF16-9-000
Peter Kinder		Peter	Kinder	Lieutenant Governor	State of Missouri	573-751-4727			Office of the Lieutenant Governor	State Capitol Building Room 224	Jefferson City	65101		MO	PF16-9-000
Jason Kander		Jason	Kander	Secretary of State	State of Missouri	573-751-4936			600 West Main Street		Jefferson City	65101		MO	PF16-9-000
Chris Koster		Chris	Koster	Attorney General	State of Missouri	573-751-3321			Supreme Court Building	207 W. High	Jefferson City	65102		MO	PF16-9-000
Joan Gummels		Joan	Gummels	General Counsel	Attorney Generals Office of Missouri	573-751-3321			P.O. Box 899		Jefferson City	65101		MO	PF16-9-000
Ron Richard		Ron	Richard	State Senator	Missouri Senate	573-751-2173			201 W Capitol Ave.	Rm. 326	Jefferson City	65101		MO	PF16-9-000

Appendix 1-E
 Spire STL Pipeline
 State Stakeholder Contact List

Contact Name	Blank	First Name	Last Name	Contact Title	Contact Organization	Phone	Email	P. O. Box	Address	Address 2	City	Zip 1	Zip 2	State	Docket
Gina Walsh		Gina	Walsh	State Senator	Missouri Senate	573-751-2420			201 W Capitol Ave.	Rm. 427	Jefferson City	65101		MO	PF16-9-000
Todd Richardson		Todd	Richardson	Mr. Speaker	Missouri House of Representatives	573-751-4039			201 W Capitol Ave.	Rm. 308	Jefferson City	65101		MO	PF16-9-000
Anne Zerr		Anne	Zerr	State Representative	Missouri House of Representatives	573-751-3717			201 W Capitol Ave.	Rm. 315	Jefferson City	65101		MO	PF16-9-000
Tommie Pierson		Tommie	Pierson	State Representative	Missouri House of Representatives	573-751-6845			201 W Capitol Ave.	Rm. 101-H	Jefferson City	65101		MO	PF16-9-000
Alan Green		Alan	Green	State Representative	Missouri House of Representatives	573-751-2135			201 W Capitol Ave.	Rm. 102-BA	Jefferson City	65101		MO	PF16-9-000
Daniel Hall		Daniel	Hall	Chairman	Missouri Public Service Commission	573-751-3234		PO Box 360	200 Madison Street		Jefferson City	65102		MO	PF16-9-000
Mark Hughes		Mark	Hughes	PSC Advisor	Missouri Public Service Commission	573-751-7434		PO Box 360	200 Madison Street		Jefferson City	65102		MO	PF16-9-000
Stephen Stoll		Stephen	Stoll	Commissioner	Missouri Public Service Commission	573-751-3234		PO Box 360	200 Madison Street		Jefferson City	65102		MO	PF16-9-000
William Kenny		William	Kenney	Commissioner	Missouri Public Service Commission	573-751-3234		PO Box 360	200 Madison Street		Jefferson City	65102		MO	PF16-9-000
Scott Rupp		Scott	Rupp	Commissioner	Missouri Public Service Commission	573-751-3234		PO Box 360	200 Madison Street		Jefferson City	65102		MO	PF16-9-000
Maida Coleman		Maida	Coleman	Commissioner	Missouri Public Service Commission	573-751-3234		PO Box 360	200 Madison Street		Jefferson City	65102		MO	PF16-9-000
Shelley Burggemann		Shelley	Bruggemann	General Counsel	Missouri Public Service Commission	573-751-3234		PO Box 360	200 Madison Street		Jefferson City	65102		MO	PF16-9-000

Appendix 1-E
Spire STL Pipeline
County Stakeholder Contact List

Contact Name	Blank	First Name	Last Name	Contact Title	Contact Organization	Phone	Email	P.O. Box	Address Line 1	Address Line 2	City	Zip 1	Zip 2	State	Docket
Pam Warford		Pam	Warford	County Clerk & Recorder	Jersey County	618-498-5571	countyclerk@jerseycounty-il.us	P. O. Box 216			Jerseyville	62052		IL	PF16-9-000
Donald Little		Donald	Little	County Board Chairman	Jersey County	618-203-3662	boardchairman@jerseycounty-il.us		200 N. Lafayette St	Suite 3	Jerseyville	62052		IL	PF16-9-000
Pam Heitzig		Pam	Heitzig	Vice Chairman	Jersey County	618-498-5572	pheitzig@jerseycounty-il.us		200 N. Lafayette St	Suite 4	Jerseyville	62052		IL	PF16-9-000
Roger Newberry		Roger	Newberry	Board Member	Jersey County	618-946-4991	rnewberry@jerseycounty-il.us		200 N. Lafayette St		Jerseyville	62052		IL	PF16-9-000
Mary Kirbach		Mary	Kirbach	Board Member	Jersey County	618-946-5407	mkirbach@jerseycounty-il.us		200 N. Lafayette St		Jerseyville	62052		IL	PF16-9-000
Wayne Schell		Wayne	Schell	Board Member	Jersey County	618-946-1143	wchell@jerseycounty-il.us		200 N. Lafayette St		Jerseyville	62052		IL	PF16-9-000
Sandy Hefner		Sandy	Hefner	Board Member	Jersey County	618-954-8650	shefner@jerseycounty-il.us		200 N. Lafayette St		Jerseyville	62052		IL	PF16-9-000
Jerry Whittman		Jerry	Whittman	Board Member	Jersey County	618-954-0846	jwhittman@jerseycounty-il.us		200 N. Lafayette St		Jerseyville	62052		IL	PF16-9-000
Rhonda Linders		Rhonda	Linders	Board Member	Jersey County	618-709-6667	rlinders@jerseycounty-il.us		200 N. Lafayette St		Jerseyville	62052		IL	PF16-9-000
Ron Henerfouth		Ron	Henerfouth	Board Member	Jersey County	618-560-1585	rhenerfouth@jerseycounty-il.us		200 N. Lafayette St		Jerseyville	62052		IL	PF16-9-000
Brian Kanallakan		Brian	Kanallakan	Board Member	Jersey County	618-781-6759	bkanallakan@jerseycounty-il.us		200 N. Lafayette St		Jerseyville	62052		IL	PF16-9-000
Gary Krueger		Gary	Krueger	Board Member	Jersey County	618-535-5419	gkrueger@jerseycounty-il.us		200 N. Lafayette St		Jerseyville	62052		IL	PF16-9-000
Ed Koenig		Ed	Koenig	Board Member	Jersey County	618-885-5415	ekoenig@jerseycounty-il.us		200 N. Lafayette St		Jerseyville	62052		IL	PF16-9-000
Gilbert Ashlock		Gilbert	Ashlock	County Treasurer	Jersey County	618-498-5571 ex: 109, 110, 111	treasurer@jerseycounty-il.us		200 N. Lafayette St	Suite 5	Jerseyville	62052		IL	PF16-9-000
Crystal Perry		Crystal	Perry	County Assessor	Jersey County	618-498-5571 x126	countyassessor@jerseycounty-il.us		200 N. Lafayette St	Suite 4	Jerseyville	62052		IL	PF16-9-000
Cindy Cregmiles		Cindy	Cregmiles	Code Administrator	Jersey County	618-498-5571 x146	codeadmin1@jerseycounty-il.us		200 N. Lafayette St	Suite 6	Jerseyville	65052		IL	PF16-9-000
Tom Klasner, P.E.		Tom	Klasner P.E.	County Engineer	Jersey County	618-535-7969	tklasner@jerseycounty-il.us		722 State Hwy 16	Jersey County Highway Dept.	Jerseyville	62052		IL	PF16-9-000
Deborah Banghart		Deborah	Banghart	County Clerk	Greene County	217-942-5443	grctyck@hotmail.com		519 North Main Street		Carrollton	62016		IL	PF16-9-000
Joe Nord		Joe	Nord	Chairman	Greene County	217-942-5443			519 North Main Street		Carrollton	62016		IL	PF16-9-000
Randy Custer		Randy	Custer	Board Member	Greene County	217-942-5443			519 North Main Street		Carrollton	62016		IL	PF16-9-000
John Goode		John	Goode	Board Member	Greene County	217-942-5443			519 North Main Street		Carrollton	62016		IL	PF16-9-000
Luke Lamb		Luke	Lamb	Board Member	Greene County	217-942-5443			519 North Main Street		Carrollton	62016		IL	PF16-9-000
Michael McNear		Michael	McNear	Board Member	Greene County	217-942-5443			519 North Main Street		Carrollton	62016		IL	PF16-9-000
Mark Strang		Mark	Strang	Vice Chair/Board Member	Greene County	217-370-6830	strang550@yahoo.com		519 North Main Street		Carrollton	62016		IL	PF16-9-000
Joyce Clark		Joyce	Clark	Board Member	Greene County	217-942-5443			519 North Main Street		Carrollton	62016		IL	PF16-9-000
Joyce Clark		Joyce	Clark	Board Member	Greene County	217-942-5443			519 North Main Street		Carrollton	62016		IL	PF16-9-000
David Maruth		David	Maruth	County Engineer	Greene County	217-942-5124			IL-108		Carrollton	62016		IL	PF16-9-000
Jill Waldheuser		Jill	Waldheuser	County Assessor	Greene County	217 942-6412			519 North Main Street		Carrollton	62016		IL	PF16-9-000
Sandy Hankins		Sandy	Hankins	County Clerk	Scott County	217-742-3173	scottclerk@frontier.com		35 E Market		Winchester	62694		IL	PF16-9-000
Craig Lashmett		Craig	Lashmett	Commissioner	Scott County	217-742-3178	clash@irtc.net	PO Box 106	989 Old Rt 36,		Winchester	62694		IL	PF16-9-000
Bob Schafer		Bob	Schafer	Commissioner	Scott County	217-742-5217	scha4@irtc.net		273 Harts School Rd		Murrayville	62694		IL	PF16-9-000

Appendix 1-E
 Spire STL Pipeline
 County Stakeholder Contact List

Contact Name	Blank	First Name	Last Name	Contact Title	Contact Organization	Phone	Email	P.O. Box	Address Line 1	Address Line 2	City	Zip 1	Zip 2	State	Docket
Danny Hatcher		Danny	Hatcher	Commissioner	Scott County	217-742-5532			35 E Market		Winchester	62694		IL	PF16-9-000
Mark Ford		Mark	Ford	County Treasurer	Scott County		scottcotreasurer@frontier.com		35 E Market		Winchester	62694		IL	PF16-9-000
Lorrie Koch		Lorrie	Koch	County Assessor	Scott County		scottcoassessor@frontier.com		35 E Market		Winchester	62694		IL	PF16-9-000
David King		David	King	Sheriff	Scott County	217-742-3141			35 E Market		Winchester	62694		IL	PF16-9-000
Steve Stenger		Steve	Stenger	County Executive	Saint Louis County	314-615-7016	sstenger@stlouisco.com		41 South Central Ave		Clayton	63105		MO	PF16-9-000
Jeff Wagner		Jeff	Wagner	Chief of Policy	Saint Louis County	314-615-7020	jwagner@stlouis.co.com		41 South Central Ave		Clayton	63105		MO	PF16-9-000
Genevieve Frank		Genevieve	Frank	County Clerk	Saint Louis County	314-615-5440	gfrank@stlouisco.com		41 South Central Ave		Clayton	63105		MO	PF16-9-000
Hazel Erby		Hazel	Erby	County Council	Saint Louis County	314-615-5436	HErby@stlouisco.com		41 South Central Ave		Clayton	63105		MO	PF16-9-000
Sam Page		Sam	Page	County Council	Saint Louis County	314-615-5437	SPage@stlouisco.com		41 South Central Ave		Clayton	63105		MO	PF16-9-000
Colleen Wasinger		Colleen	Wasinger	County Council	Saint Louis County	314-615-5438	CWasinger@stlouisco.com		41 South Central Ave		Clayton	63105		MO	PF16-9-000
Michael O'Mara		Michael	O'Mara	County Council	Saint Louis County	314-615-5439	MOmara@stlouisco.com		41 South Central Ave		Clayton	63105		MO	PF16-9-000
Pat Dolan		Pat	Dolan	County Council	Saint Louis County	314-615-5441	PDolan@stlouisco.com		41 South Central Ave		Clayton	63105		MO	PF16-9-000
Kevin O'Leary		Kevin	O'Leary	County Council	Saint Louis County	314-615-0159	koleary@stlouisco.com		41 South Central Ave		Clayton	63105		MO	PF16-9-000
Mark Harder		Mark	Harder	County Council	Saint Louis County	314-615-5443	mharder@stlouisco.com		41 South Central Ave		Clayton	63105		MO	PF16-9-000
Mark Devore		Mark	Devore	Collector of Revenue	Saint Louis County	314-615-7191	mdevore@stlouisco.com		41 South Central Ave		Clayton	63105		MO	PF16-9-000
Mark Diedrich		Mark	Diedrich	Director of Emergency Management	Saint Louis County	314-615-9500	mdiedrich@stlouisco.com		1150 Hanna Road		Ballwin	63021		MO	PF16-9-000
Jake Zimmerman		Jake	Zimmerman	County Assessor	Saint Louis County	314-615-5500	jzimmerman@stlouisco.com		41 South Central Avenue		Clayton	63105		MO	PF16-9-000
Nichalos D. Gardner, Ph.D., P.E.		Nichalos	Gardner	Director	Saint Louis County Transportation & Public Works	314-615-8501	Ngardner@stlouisco.com		1050 N. Lindbergh		St. Louis	63132		MO	PF16-9-000
Matthew J. Gruendler, P.E		Matthew	Gruendler	Construction Division Manager	Saint Louis County Transportation & Public Works	314-615-1159	Mgruendler@stlouisco.com		1050 N. Lindbergh		St. Louis	63132		MO	PF16-9-000
Stephanie Leon Streeter, P.E.		Stephanie	Streeter	Deputy Dircetor	Saint Louis County Transportation & Public Works	314-615-8501	SLeonStreeter@Stlouisco.com		1050 N. Lindbergh		St. Louis	63132		MO	PF16-9-000
Glenn A. Powers		Glenn	Powers	Director of Planning	Saint Louis County Planning	314-615-2515	gpowers@stlouisco.com		41 South Central Avenue		St. Louis	63105		MO	PF16-9-000
Daniel W. Drisewerd, P. E., PTOE		Daniel	Drisewerd	Division Manager, Code Enforcement	Saint Louis County Transportation & Public Works	314-615-8190	Ddrisewerd@stlouisco.com		41 South Central Avenue		St. Louis	63105		MO	PF16-9-000
Ruth Miller		Ruth	Miller	County Clerk/Registrar	St. Charles County	636-949-7560	registrar@sccmo.org		201 N. Second Ave	Suite 541	St. Charles	63301		MO	PF16-9-000
Joe Cronin		Joe	Cronin	Councilmember	St. Charles County	636-949-7530	jcronin@sccmo.org		100 N. 3rd Street	Suite 124	St. Charles	63301		MO	PF16-9-000
Joe Brazil		Joe	Brazil	Councilmember	St. Charles County	636-949-7530	jbrazil@sccmo.org		100 N. 3rd Street	Suite 124	St. Charles	63301		MO	PF16-9-000
Mike Elam		Mike	Elam	Councilmember	St. Charles County	636-949-7530	melam@sccmo.org		100 N. 3rd Street	Suite 124	St. Charles	63301		MO	PF16-9-000
Dave Hammond		Dave	Hammond	Councilmember	St. Charles County	636-949-7530	dhammond@sccmo.org		100 N. 3rd Street	Suite 124	St. Charles	63301		MO	PF16-9-000
Terry Hollander		Terry	Hollander	Councilmember	St. Charles County	636-949-7530	thollander@sccmo.org		100 N. 3rd Street	Suite 124	St. Charles	63301		MO	PF16-9-000
Mike Klinghammer		Mike	Klinghammer	Councilmember	St. Charles County	636-949-7530	mklingshammer@sccmo.org		100 N. 3rd Street	Suite 124	St. Charles	63301		MO	PF16-9-000

Appendix 1-E
 Spire STL Pipeline
 County Stakeholder Contact List

Contact Name	Blank	First Name	Last Name	Contact Title	Contact Organization	Phone	Email	P.O. Box	Address Line 1	Address Line 2	City	Zip 1	Zip 2	State	Docket
John White		John	White	Councilmember	St. Charles County	636-949-7530	jwwhite@sccmo.org		100 N. 3rd Street	Suite 124	St. Charles	63301		MO	PF16-9-000
Michelle McBride		Michelle	McBride	Collector of Revenue	St. Charles County	636-949-7470	collector@sccmo.org		201 N. Second Ave	Suite 134	St. Charles	63301		MO	PF16-9-000
Ina McCaine-Obenland		Ina	McCaine-Obenland	Operations and Public Outreach	St. Charles County	636-949-3023 314-267-6908 C	imccaine@sccmo.org		301 N. Second Street	Room 280	St. Charles	63301		MO	PF16-9-000
Tom Koch		Tom	Koch	Emergency Management Director	St. Charles County	636-949-3023	ema@sccmo.org		301 N. Second Street	Room 280	St. Charles	63301		MO	PF16-9-000
Scott Shipman		Scott	Shipman	County Assessor	St. Charles County	636-949-7425	cyassess@sccmo.org		201 N. Second Ave		St. Charles	63301		MO	PF16-9-000
Steve Ehlmann		Steve	Ehlmann	County Executive	St. Charles County	636-949-7520	executive@sccmo.org		100 N. 3rd Street		St. Charles	63301		MO	PF16-9-000

Appendix 1-E
 Spire STL Pipeline
 City Stakeholder Contact List

Contact Name	Blank	First Name	Last Name	Contact Title	Contact Organization	Phone	Email	P.O. Box	Address Line 1	Address Line 2	City	Zip 1	Zip 2	State	Docket
William Russel		William	Russell	Mayor	City of Jerseyville	618-498-2400	brussell@jerseyville-il.us		115 East Prairie Street		Jerseyville	62052		IL	PF16-9-000
Gary Goetten		Gary	Goetten	City Council	City of Jerseyville	618-498-3312	rgarygoetten@jerseyville-il.us		115 East Prairie Street		Jerseyville	62052		IL	PF16-9-000
Richard Perdun		Richard	Perdun	City Council	City of Jerseyville	618-498-3312	rperdun@jerseyville-il.us		115 East Prairie Street		Jerseyville	62052		IL	PF16-9-000
Steve Pohlman		Steve	Pohlman	City Council	City of Jerseyville	618-498-3312	spohlman@jerseyville-il.us		115 East Prairie Street		Jerseyville	62052		IL	PF16-9-000
Kevin Stork		Kevin	Stork	City Council	City of Jerseyville	618-498-3312	kstork@jerseyville-il.us		115 East Prairie Street		Jerseyville	62052		IL	PF16-9-000
William Strang		William	Strang	City Council	City of Jerseyville	618-498-6821	bstrang@jerseyville-il.us		115 East Prairie Street		Jerseyville	62052		IL	PF16-9-000
Denise Hayes		Denise	Hayes	Deputy City Clerk	City of Jerseyville	618-498-3312	denisehayes@jerseyville-il.us		115 East Prairie Street		Jerseyville	62052		IL	PF16-9-000
Cathie Ward		Cathie	Ward	City Clerk	City of Jerseyville	618-498-3312	cathieward@jerseyville-il.us		115 East Prairie Street		Jerseyville	62052		IL	PF16-9-000
Jeffery S. Soer		Jeffery S.	Soer	Director of Building and Zoning	City of Jerseyville	618-498-3312	jeffsoer@jerseyville-il.us		115 East Prairie Street		Jerseyville	65052		IL	PF16-9-000
Alan Gowin		Alan	Gowin	Fire Chief	City of Jerseyville	618-498-3312	jerseyvillefd@jerseyville-il.us		115 East Prairie Street		Jerseyville	62052		IL	PF16-9-000
Earl "Joe" Harness Jr.		Earl "Joe"	Harness Jr.	Mayor Pro Tempore	City of Carrollton	217-942-5517			621 South Main Street		Carrollton	62016		IL	PF16-9-000
Ryan Scott		Ryan	Scott	City Clerk	City of Carrollton	217-942-5517	ryanscott.cityclerk@gmail.com		621 South Main Street		Carrollton	62016		IL	PF16-9-000
Francis "Gene" Baker		Francis "Gene"	Baker	Alderman	City of Carrollton				621 South Main Street		Carrollton	62016		IL	PF16-9-000
Susie Keller		Susie	Keller	Alderman	City of Carrollton				621 South Main Street		Carrollton	62016		IL	PF16-9-000
Tom Wilson		Tom	Wilson	Alderman	City of Carrollton				621 South Main Street		Carrollton	62016		IL	PF16-9-000
Sharon Butler		Sharon	Butler	Alderman	City of Carrollton				621 South Main Street		Carrollton	62016		IL	PF16-9-000
Dewain Freand		Dewain	Freand	Alderman	City of Carrollton				621 South Main Street		Carrollton	62016		IL	PF16-9-000
Terry Gross		Terry	Gross	Chief of Police	City of Carrollton	217-942-3135	carrolltonpd1@gmail.com		621 South Main Street		Carrollton	62016		IL	PF16-9-000
Tom Lakin		Tom	Lakin	Mayor	City of White Hall	217-374-2481	tlakin@whitehallcitygov.com		116 East Sherman		White Hall	62092		IL	PF16-9-000
Mike Kleidon		Mike	Kleidon	Alderman	City of White Hall	217-374-2345	mkleidon@whitehallcitygov.com		116 East Sherman		White Hall	62092		IL	PF16-9-000
Rick Cox		Rick	Cox	Alderman	City of White Hall	217-374-2345	rcox@whitehallcitygov.com		116 East Sherman		White Hall	62092		IL	PF16-9-000
Brad Staats		Brad	Staats	Alderman	City of White Hall	217-374-2345	bstaats@whitehallcitygov.com		116 East Sherman		White Hall	62092		IL	PF16-9-000
Tamra Winters		Tamra	Winters	Alderwoman	City of White Hall	217-374-2345	twinters@whitehallcitygov.com		116 East Sherman		White Hall	62092		IL	PF16-9-000
Ed Foley		Ed	Foley	Alderman	City of White Hall	217-374-2345	efoley@whitehallcitygov.com		116 East Sherman		White Hall	62092		IL	PF16-9-000
Norman Coad		Norman	Coad	Alderman	City of White Hall	217-374-2345	ncoad@whitehallcitygov.com		116 East Sherman		White Hall	62092		IL	PF16-9-000
Sue Reno		Sue	Reno	City Clerk	City of White Hall	217-374-2345	sreno@whitehallcitygov.com		116 East Sherman		White Hall	62092		IL	PF16-9-000
Gary Sheppard		Gary	Sheppard	Fire Chief	City of White Hall	217-374-2134	gsheppard@whitehallcitygov.com		116 East Sherman		White Hall	62092		IL	PF16-9-000
Tommy Martin		Tommy	Martin	Mayor	City of Roodhouse	217-589-4351			137 West Palm St		Roodhouse	62082		IL	PF16-9-000

Appendix 1-E
 Spire STL Pipeline
 City Stakeholder Contact List

Contact Name	Blank	First Name	Last Name	Contact Title	Contact Organization	Phone	Email	P.O. Box	Address Line 1	Address Line 2	City	Zip 1	Zip 2	State	Docket
Gladys "Patty" Plahn		Gladys "Patty"	Plahn	City Clerk	City of Roodhouse	217-589-4351			137 West Palm St		Roodhouse	62082		IL	PF16-9-000
Dennis Cumby		Dennis	Cumby	Alderman	City of Roodhouse	217-589-4352			137 West Palm St		Roodhouse	62082		IL	PF16-9-000
Jim Knox		Jim	Knox	Alderman	City of Roodhouse	217-589-4353			137 West Palm St		Roodhouse	62082		IL	PF16-9-000
Garrett Rogers		Garrett	Rogers	Alderman	City of Roodhouse	217-589-4354			137 West Palm St		Roodhouse	62082		IL	PF16-9-000
Charlie Huffine		Charlie	Huffine	Alderman	City of Roodhouse	217-589-4355			137 West Palm St		Roodhouse	62082		IL	PF16-9-000
Joe Starnes		Joe	Starnes	Fire Chief	City of Roodhouse	217-589-4141			1140 S. State St		Roodhouse	62082		IL	PF16-9-000
David R. King		David R.	King	Sheriff	City of Winchester	217-742-3141			101 East Market Street		Winchester	62694		IL	PF16-9-000
Brenda Robinson		Brenda	Robinson	City Clerk	City of Winchester	217-742-3191			121 S. Hill Street		Winchester	62694		IL	PF16-9-000
Rex McIntire		Rex	McIntire	Mayor	City of Winchester	217-742-3191			121 S. Hill Street		Winchester	62694		IL	PF16-9-000
Steve Hoots		Steve	Hoots	Alderman	City of Winchester	217-742-3191			121 S. Hill Street		Winchester	62694		IL	PF16-9-000
Barb Nash		Barb	Nash	Alderman	City of Winchester	217-742-3191			121 S. Hill Street		Winchester	62694		IL	PF16-9-000
Cheryl Day		Cheryl	Day	Alderwoman	City of Winchester	217-742-3191			121 S. Hill Street		Winchester	62694		IL	PF16-9-000
Bill Jacquot		Bill	Jacquot	Alderman	City of Winchester	217-742-3191			121 S. Hill Street		Winchester	62694		IL	PF16-9-000
Fred Andrews		Fred	Andrews	Alderman	City of Winchester	217-742-3191			121 S. Hill Street		Winchester	62694		IL	PF16-9-000
Chris Renner		Chris	Renner	Alderwoman	City of Winchester	217-742-3191			121 S. Hill Street		Winchester	62694		IL	PF16-9-000
John Coonrod		John	Coonrod	City Attorney	City of Winchester	217-742-3191			121 S. Hill Street		Winchester	62694		IL	PF16-9-000
Amy Brown		Amy	Brown	Treasurer	City of Winchester	217-742-3191			121 S. Hill Street		Winchester	62694		IL	PF16-9-000
Joe Starnes		Joe	Starnes	Fire Chief	City of Winchester	217-742-3191			121 S. Hill Street		Winchester	62694		IL	PF16-9-000
Thomas P. Schneider		Thomas P.	Schneider	Mayor	City of Florissant	314-839-7601			955 Rue St Francois		Florissant	63031		MO	PF16-9-000
Karen Goodwin		Karen	Goodwin	City Clerk	City of Florissant	314-839-7630	kgoodwin@florissantmo.com		955 Rue St Francois		Florissant	63031		MO	PF16-9-000
Anita Moore		Anita	Moore	Deputy City Clerk	City of Florissant	314-839-7631	amoore@florissantmo.com		955 Rue St Francois		Florissant	63031		MO	PF16-9-000
Tim Lee		Tim	Lee	City Council	City of Florissant	314-839-7631	ward1@florissantmo.com		955 Rue St Francois		Florissant	63031		MO	PF16-9-000
Timothy Jones		Timothy	Jones	City Council	City of Florissant	314-839-7631	ward2@florissantmo.com		955 Rue St Francois		Florissant	63031		MO	PF16-9-000
Joseph Eagan		Joseph	Eagan	City Council	City of Florissant	314-839-7631	ward3@florissantmo.com		955 Rue St Francois		Florissant	63031		MO	PF16-9-000
Jeff Caputa		Jeff	Caputa	City Council	City of Florissant	314-839-7631	ward4@florissantmo.com		955 Rue St Francois		Florissant	63031		MO	PF16-9-000
Keith Schildroth		Keith	Schildroth	City Council	City of Florissant	314-839-7631	ward5@florissantmo.com		955 Rue St Francois		Florissant	63031		MO	PF16-9-000
Gerald Henke		Gerald	Henke	City Council	City of Florissant	314-839-7631	ward6@florissantmo.com		955 Rue St Francois		Florissant	63031		MO	PF16-9-000
Jackie Pagano		Jackie	Pagano	City Council	City of Florissant	314-839-7631	ward7@florissantmo.com		955 Rue St Francois		Florissant	63031		MO	PF16-9-000

Appendix 1-E
 Spire STL Pipeline
 City Stakeholder Contact List

Contact Name	Blank	First Name	Last Name	Contact Title	Contact Organization	Phone	Email	P.O. Box	Address Line 1	Address Line 2	City	Zip 1	Zip 2	State	Docket
Mark Schmidt		Mark	Schmidt	City Council	City of Florissant	314-839-7631	ward8@florissantmo.com		955 Rue St Francois		Florissant	63031		MO	PF16-9-000
Tommy Siam		Tommy	Siam	City Council	City of Florissant	314-839-7631	ward9@florissantmo.com		955 Rue St Francois		Florissant	63031		MO	PF16-9-000
Julie Griffith		Julie	Griffith	President	Spanish Lake Community Association	314-791-8083	rngriffy@sbcglobal.net		8969 Dunn Road		Hazelwood	63042		MO	PF16-9-000
William Richter		William	Richter	Mayor	West Alton	636-899-0808		PO Box 42	14068 N State Route 94		West Alton	63386		MO	PF16-9-000
Beth Machens		Beth	Machens	City Clerk	West Alton	636-899-0808		PO Box 42	14068 N State Route 94		West Alton	63386		MO	PF16-9-000
Janet Neustadt		Janet	Neustadt	Alderman	West Alton	636-899-0233		PO Box 42	14068 N State Route 94		West Alton	63386		MO	PF16-9-000
Edward Shaub		Edward	Shaub	Alderman	West Alton	636-448-4075		PO Box 42	14068 N State Route 94		West Alton	63386		MO	PF16-9-000
William Brass		William	Brass	Alderman	West Alton	636-899-1546		PO Box 42	14068 N State Route 94		West Alton	63386		MO	PF16-9-000
Nick Wunderlich		Nick	Wunderlich	Alderman	West Alton	636-233-1583		PO Box 42	14068 N State Route 94		West Alton	63386		MO	PF16-9-000
Norman C. McCourt		Norman C.	McCourt	Mayor	City of Black Jack	314-355-0400	mayor@cityofblackjack.com		City Hall	12500 Old Jamestown Road	Black Jack	63033		MO	PF16-9-000
Rick Steigenwald		Rick	Steigenwald	City Council	City of Black Jack				City Hall	12500 Old Jamestown Road	Black Jack	63033		MO	PF16-9-000
Donald Krank		Donald	Krank	City Council	City of Black Jack				City Hall	12500 Old Jamestown Road	Black Jack	63033		MO	PF16-9-000
Sandra Muller		Sandra	Muller	City Council	City of Black Jack				City Hall	12500 Old Jamestown Road	Black Jack	63033		MO	PF16-9-000
Al Schroeder		Al	Schroeder	City Council	City of Black Jack				City Hall	12500 Old Jamestown Road	Black Jack	63033		MO	PF16-9-000
Arnold Hinkle		Arnold	Hinkle	City Council	City of Black Jack				City Hall	12500 Old Jamestown Road	Black Jack	63033		MO	PF16-9-000
A. J. White		A. J.	White	City Council	City of Black Jack				City Hall	12500 Old Jamestown Road	Black Jack	63033		MO	PF16-9-000
Benjamin T. Allen		Benjamin T.	Allen	City Council	City of Black Jack				City Hall	12500 Old Jamestown Road	Black Jack	63033		MO	PF16-9-000
John Taylor		John	Taylor	City Council	City of Black Jack				City Hall	12500 Old Jamestown Road	Black Jack	63033		MO	PF16-9-000
Vijay K. Bhasin, P.E.		Vijay K.	Bhasin, P.E.	City Engineer	City of Black Jack	314-355-0400 e110	cityengineer@cityofblackjack.com		City Hall	12500 Old Jamestown Road	Black Jack	63033		MO	PF16-9-000
Rodney Grady		Rodney	Grady	Treasurer	City of Black Jack				City Hall	12500 Old Jamestown Road	Black Jack	63033		MO	PF16-9-000

Appendix 1-E
Spire STL Pipeline
Additional Stakeholder Contact List

Contact Name	Blank	First Name	Last Name	Contact Title	Contact Organization	Phone	Email	P.O.Box	Address	Address 2	City	Zip 1	Zip 2	State	Docket
Blake Roderick		Blake	Roderick	Executive Director	IL Farm Bureau	217-473-1600 C	blake@pikecfb.org		7 E Market St.		Winchester	62694		IL	PF16-9-000
Stephanie Knittel		Stephanie	Knittel	Manager	IL Farm Bureau	618-498-9576			402 S Jefferson St		Jerseyville	62052		IL	PF16-9-000
Shari Albrecht		Shari	Albrecht	CEO	Jersey County Business Association	(618) 639-5222			209 N State St		Jerseyville	62052		IL	PF16-9-000
Linda Disllehorst		Linda	Disllehorst			217-787-3920	pmeyer45@msn.com		2232 W Laurel St		Springfield	62704		IL	PF16-9-000
Marcelyn Love		Marcelyn	Love				teggers1@yahoo.com		3117 LaConner Dr		Springfield	62704		IL	PF16-9-000
Tim Eggers		Tim	Eggers				spencerjb1@yahoo.com		2339 Stoncrest		Washington	63090		IL	PF16-9-000
John Spencer		John	Spencer			217-245-9071	starcoop@frontier.com		67 Spencer Rd		Jacksonville	62650		IL	PF16-9-000
Brad Wilson		Brad	Wilson			217-320-2492	john.p.coonrod@coonrodlawoffice.com		6 Rosemary Lane		Winchester	62694		IL	PF16-9-000
Rachel Cooper		Rachel	Copper			217-370-3593			1247 Clay Hollow Rd		Winchester	62694		IL	PF16-9-000
John Coonrod		John	Coonrod			217-245-1431			PO Box 197		Jacksonville	62651		IL	PF16-9-000
Barb Baker for Congressman Darin LaHood		Barb	Baker			217-341-5084	rharris@midwestlaborers.org		201 W. Morgan		Roodhouse	62082		IL	PF16-9-000
John Coonrod		John	Coonrod			217-782-4306			PO Box 197		Springfield	62701		IL	PF16-9-000
Laura Duckett		Laura	Duckett			618-498-2949			RR 1 Box 98A		Jerseyville	62052		IL	PF16-9-000
Randy Harris		Randy	Harris			580-3298			1 NW. Old State Capitol Plaza Ste. 525		Brighton			IL	PF16-9-000
Fred Marshall		Fred	Marshall			618-304-7090			26810 Old Fidelity Road		Grafton	62037		IL	PF16-9-000
Cindy Cregmiles		Cindy	Cregmiles			618-535-1797			13749 Otter Creek W. Fiedod (illegible)		Jerseyville	62052		IL	PF16-9-000
Michael Morgan		Michael	Morgan				rsinclair62052@gmail.com		34120 Canoe Ct.		Jerseyville	62052		IL	PF16-9-000
Rob Hedger		Rob	Hedger			618-781-6383	gbates@icrw.net		1210 Eagle Ln		Jerseyville	62052		IL	PF16-9-000
Henry Kallal		Henry	Kallal			618-498-9534	moodyzoo85@gmail.com		20398 Lax Cemetery Rd.		Jerseyville	62052		IL	PF16-9-000
Laef Lorton		Laef	Lorton			618-303-4856			123 W. Pearl		Elsah	62028		IL	PF16-9-000
Ray Sinclair		Ray	Sinclair			618-535-5642			20306 Otterville Rd		Jerseyville	62052		IL	PF16-9-000
Greg Bates		Greg	Bates			618-779-2417	jnaville@mdwestlaborers.org		1009 State HWY 16		Jerseyville	62052		IL	PF16-9-000
John Reed		John	Reed			217-381-8100	rharris@midwestlaborers.org		PO Box 14 18 Mill St.		Rockbridge	62063		IL	PF16-9-000
Bernie Darg		Bernie	Darg			217-788-4306	bluesfarmlm@frontier.net		25265 Bethany Ch. Rd.		Springfield	62701		IL	PF16-9-000
Bob McDonald		Bob	McDonald			618-304-2447	cdandrescher@aol.com		23783 Rangeline Rd		Jerseyville	62052		IL	PF16-9-000
Jeff Naville		Jeff	Naville						RR 1 Box 40 B		Elsah	62028		IL	PF16-9-000
Randy Harris		Randy	Harris			618-655-0600	rnjgriffy@sbcglobal.net		1 NW. Old State Capital Plaza Ste. 525		Edwardsville	62025		IL	PF16-9-000
Melissa McKenna		Melissa	McKenna						404 Short		Elsah	62028		IL	PF16-9-000
Dan Drescher		Dan	Drescher						PO Box 73		Roodhouse	62082		IL	PF16-9-000
Larry Mead		Larry	Mead						23336 Bench Ct.		Roodhouse	62082		IL	PF16-9-000
Vonda Seckler		Vonda	Seckler				rhhbell1@comcast.net		212 Willow Dr		Roodhouse	62082		IL	PF16-9-000
Bob Manns		Bob	Manns						1004 State Hwy. 16		Rockbridge	62082		IL	PF16-9-000
Jerry Harris		Jerry	Harris						1008 Prigge Road		Carrollton	62016		IL	PF16-9-000
Bill & Suzanne O'Brien		Bill & Suzanne	O'Brien						2265 Wedgewood Dr.		Fieldon	62031		IL	PF16-9-000
Emma Crathis		Emma	Crathis			217-204-8967			1901 Chocteau Ave		Carrollton	62016		IL	PF16-9-000
Brian Kalb		Brian	Kalb			217-204-3193			411 St. Louis St.		Carrollton	62016		IL	PF16-9-000
Julie Griffith		Julie	Griffith			217-942-6966	Gourley03@frontier.com		13115 Lester Dr		Carrollton	62016		IL	PF16-9-000
John W. Scates		John W.	Scates			217-371-9661			7700 Bonhomme		Carrollton	62016		IL	PF16-9-000
Robert Guinness		Robert	Guinness			217-371-8268			50 Hill Pointe Ct. Ste 200		White Hall	62092		IL	PF16-9-000
Daryl Knobbe		Daryl	Knobbe			942-5402 ex. 112			4 Westbury		Carrollton	62016		IL	PF16-9-000
Jim Boerding		Jim	Boerding			942-3789	lacrossejason@yahoo.com		5520 N. HWY 94		Carrollton	62016		IL	PF16-9-000

Appendix 1-E
 Spire STL Pipeline
 Additional Stakeholder Contact List

Contact Name	Blank	First Name	Last Name	Contact Title	Contact Organization	Phone	Email	P.O.Box	Address	Address 2	City	Zip 1	Zip 2	State	Docket
Norman Sacks		Norman	Sacks			217-310-9056	randolphfarms@yahoo.com		111 Wake Forest Pl		Carrollton	62016		IL	PF16-9-000
Andrew Jesper		Andrew	Jesper			217-248-1893			Principia College		Carrollton	62016		IL	PF16-9-000
Monty Sade		Monty	Sade			217-248-5247			1290 Sade Dr		Carrollton	62016		IL	PF16-9-000
Danny R. Miller		Danny R.	Miller			618-498-2998			Box 15		Jerseyville	62052		IL	PF16-9-000
Rita Gormy		Rita	Gormy			618-791-6016			814 6th		Collinsville	62234		IL	PF16-9-000
Jimmy Naville		Jimmy	Naville			618-498-6418	chevy-man77@charter.net		305 Walnut St		Jerseyville	62052		IL	PF16-9-000
Randall Henson		Randall	Henson			314-355-0369	billysueob@att.net		1107 Hawkland Dr.		Carrollton	62016		IL	PF16-9-000
Charlie Rives		Charlie	Rives			314-725-4484	guinness@ste.legal.com		Greene County Rural Water		Carrollton	62016		IL	PF16-9-000
Nick W. Graham		Nick W.	Graham						620 North Main St.		Carrollton	62016		IL	PF16-9-000
Mike Gourley		Mike	Gourley			636-947-1546	shawn@saalebailey.com		RR#3 Box 124		Carrollton	62016		IL	PF16-9-000
Larry Gowrley		Larry	Gowrley			314-575-1910			RR3 Box 233		Carrollton	62016		IL	PF16-9-000
Brad Behymer		Brad	Behymer			636-267-8641			RR #3 Box 129A		Carrollton	62016		IL	PF16-9-000
Jeanne Clanton		Jeanne	Clanton			314-331-8810	willie@richterfarms.com		R#1 Box 12A		Carrollton	62016		IL	PF16-9-000
Fred Randolph		Fred	Randolph			217-204-3896			RR #1 Box 7A		Carrollton	62016		IL	PF16-9-000
Joey Naville		Joey	Naville			217-248-6292			RR1 Box10B		Carrollton	62016		IL	PF16-9-000
Gary Flatt		Gary	Flatt			217-942-3189	bradley.behymer@il.usda.gov		R3 Box 410		Carrollton	62016		IL	PF16-9-000
Blake Hurst		Blake	Hurst	Borad of Directors President	MO Farm Bureau	(573) 893-1400			701 S. Country Club Drive		Jefferson City	65109		MO	PF16-9-000
Andrea Ahearn		Andrea	Ahearn	Account Manager	Aerotek	314-801-5245	aahearn@aerotek.com		Two City Place Drive	Suite100	St. Louis	63141		MO	PF16-9-000
Bonnie Diaz		Bonnie	Diaz			314-831-4233			41 S. Central Ave		Florissant	63037		MO	PF16-9-000
Jim Massmann		Jim	Massmann				brk@bcplaw.com		1130 Shadow Oak Dr.		Innsbrook	63390		MO	PF16-9-000
Ina McCaine-Obenland		Ina	Obenland			314-791-8083	john_scates@blunt.senate.gov		301 N 2nd St. Rm 280		St. Louis	63138		MO	PF16-9-000
Mark Poggemoeller		Mark	Poggemoeller			314-486-6042			6565 Portage Rd		St. Charles	63303		MO	PF16-9-000
Alan Poggemoeller		Alan	Poggemoeller			636-634-1779			6565 Portage Rd		St. Charles	63301		MO	PF16-9-000
Kenny Biermann		Kenny	Biermann			636-561-0993			3308 Apple Valley Drive		O'Fallon	63366		MO	PF16-9-000
Shawn Saale		Shawn	Saale			314-630-3843			220 Salt Lick Road		West Alton	63386		MO	PF16-9-000
Mary Beth Wolf representing US Senator Blunt		Mary	Wolf			314-393-6515	bdiaz@stlouisco.com		7700 Bonhomme Ste. 315		West Alton	63386		MO	PF16-9-000
David Bonderer		David	Bonderer			314-615-7116	jmassmann@sbcglobal.net		535 Saale Rd.		St. Louis	63105		MO	PF16-9-000
Rich Georgy		Rich	Georgy			314-725-4484			RR 1 Box 136		West Alton	63386		MO	PF16-9-000
Dee Damm		Dee	Damm			636-899-0933			RR #3 Box 14		West Alton	63301		MO	PF16-9-000
Shirley VanMeter		Shirley	VanMeter			636-949-3123			514 Grant St		St. Charles	63301		MO	PF16-9-000



APPENDIX 1-F
Exceptions to the FERC Plan and Procedures



Appendix 1-F. Exceptions to the FERC Plan and Procedures

Approximate MP	Features (Type)	Description of Modification	Justification
24-Inch Pipeline			
2.2	Wetland WIL-TMA-001 (PEM)	ATWS within 50 feet of a wetland	This area is under review
2.5	Wetland WIL-JJP-004 (PEM)	ATWS within 50 feet of a wetland	Road crossing
2.6	Stream SIL-JJP-005 (Perennial)	ATWS within 50 feet of a waterbody	This area is under review
2.8	Stream SIL-JJP-009 (Ephemeral)	ATWS within 50 feet of a waterbody	Stream crossing
3.7	Stream SIL-TMA-012 (Ephemeral)	ATWS within 50 feet of a waterbody	Stream and wetland crossing
4.4	Wetland WIL-JJP-009 (PEM)	ATWS within 50 feet of a wetland	Topsoil segregation in agricultural land
5.6	Wetland WIL-JJP-012A (PEM)	ATWS within a wetland	Stream and wetland crossing
6.5	Wetland WIL-JJP-014 (PEM)	ATWS within 50 feet of a wetland	Topsoil segregation in agricultural land
10.3	Stream SIL-JJP-029 (Ephemeral)	ATWS within 50 feet of a waterbody	This area is under review
11.3	Stream SIL-TMA-023 (Ephemeral) and Stream SIL-TMA-024 (Ephemeral)	ATWS within 50 feet of a waterbody	Road crossing
14.4	Wetland WIL-TMA-007 (PEM)	ATWS within a wetland	Access road transition to right-of-way
17.1	Wetland WIL-TMA-009 (PEM)	Construction right-of-way greater than 75 feet in a wetland	This area is under review
31.2	Stream SMO-DFW-001 (Perennial)	Construction right-of-way greater than 75 feet in a waterbody	This area is under review
31.2	Stream SMO-DFR-002 (Intermittent)	Construction right-of-way greater than 75 feet in a waterbody	This area is under review

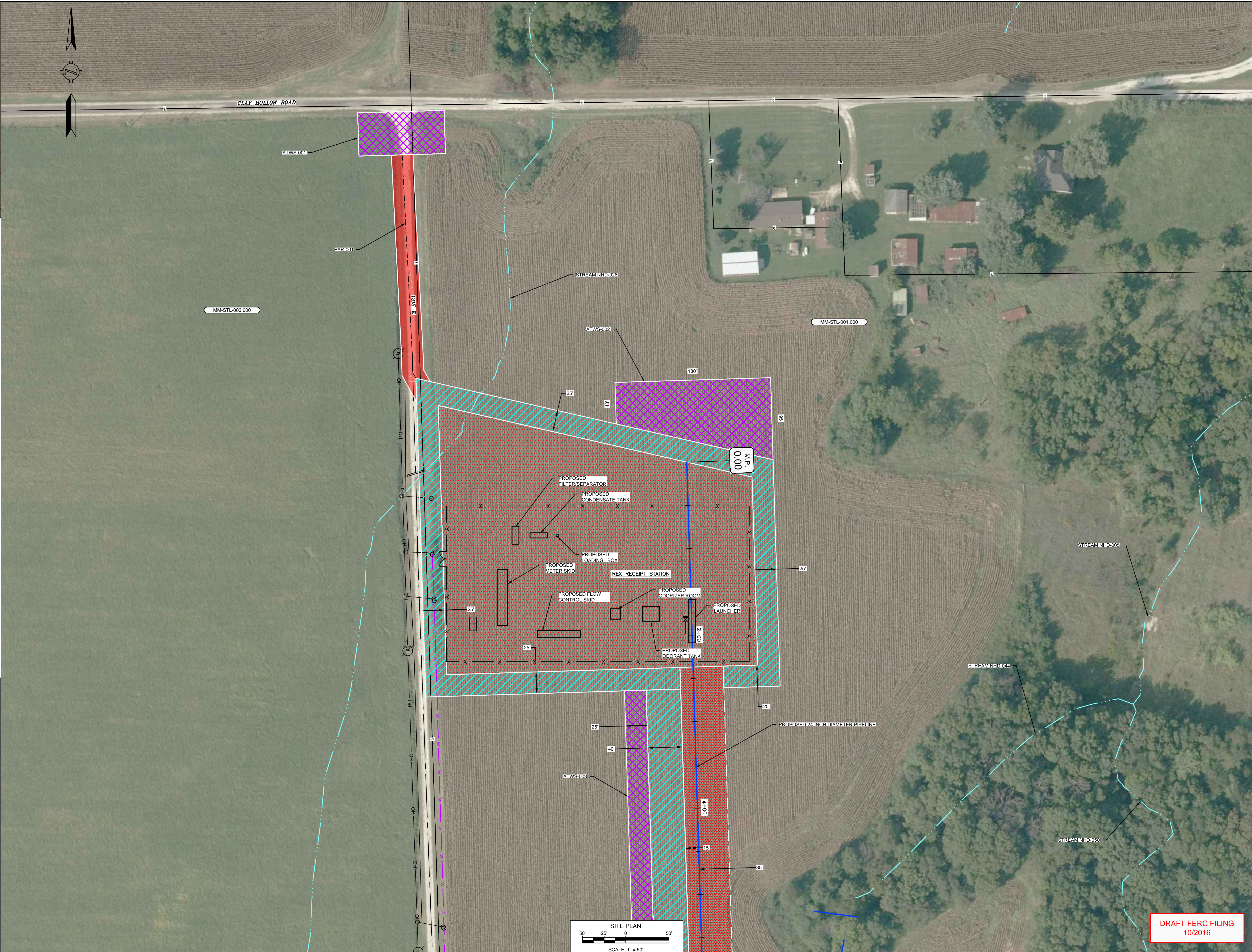
Note: Potential modifications are included for field delineated features only. Spire will evaluate modifications based on ongoing fieldwork and will provide an updated list with the FERC application.



APPENDIX 1-G
Typical Facility Plot Plans



LOCATION MAP
N.T.S.



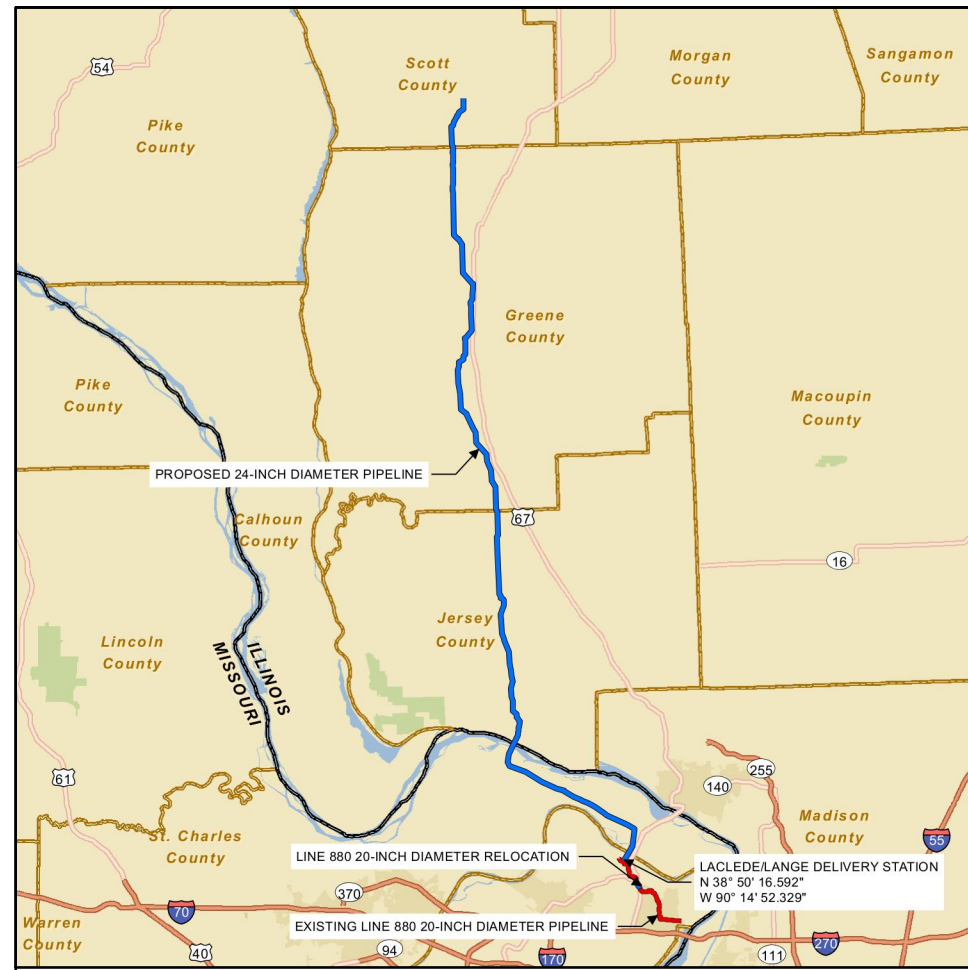
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	PROPOSED PERMANENT EASEMENT
	TEMPORARY WORKSPACE
	ADDITIONAL TEMPORARY WORKSPACE (ATWS)
	PROPOSED CONTRACTOR YARD
	ACCESS ROAD
	PROPOSED 24-INCH DIAMETER PIPELINE
	PROPOSED 20-INCH DIAMETER LINE 880 RELOCATION
	EXISTING GAS PIPELINE
	EXISTING FOREIGN PIPELINE
	OVERHEAD POWER LINE
	EXISTING FIBER OPTIC LINE
	LINE LIST NUMBER
	PROPERTY LINE
	MUNICIPAL LINE
	WETLAND (DESKTOP)
	WETLAND (DELINEATED)
	1/4 OF STREAM (DESKTOP)
	1/4 OF STREAM (DELINEATED)
	PROPOSED FENCE
	UTILITY POLE
	STORM SEWER

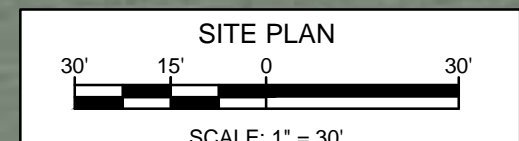


DRAFT FERC FILING
10/2016

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LOCATION MAP
N.T.S.



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- PROPOSED PERMANENT EASEMENT
- TEMPORARY WORKSPACE
- ADDITIONAL TEMPORARY WORKSPACE (ATWS)
- PROPOSED CONTRACTOR YARD
- ACCESS ROAD
- PROPOSED 24-INCH DIAMETER PIPELINE
- PROPOSED 20-INCH DIAMETER LINE 880 RELOCATION
- EXISTING GAS PIPELINE
- EXISTING FOREIGN PIPELINE
- OVERHEAD POWER LINE
- EXISTING FIBER OPTIC LINE
- LINE LIST NUMBER
- PROPERTY LINE
- MUNICIPAL LINE
- WETLAND (DESKTOP)
- WETLAND (DELINEATED)
- ϵ OF STREAM (DESKTOP)
- ϵ OF STREAM (DELINEATED)
- PROPOSED FENCE
- UTILITY POLE
- STORM SEWER

REFERENCE DRAWINGS		REFERENCE DRAWINGS	
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REVISIONS				
NO.	REVISIONS	DATE	DRAWN	CK

REVISIONS				
NO.	REVISIONS	DATE	DRAWN	CK

APPROVALS				
DRAWN BY	DATE	ENG. APPROVAL	DATE	CLIENT APPROVAL
RJR	10/2016	DGG	10/2016	
CHECKED BY	DATE	P.M. APPROVAL	DATE	SCALE: 1" = 30'
EB	10/2016	JEW	10/2016	STLP-SS-002

PREPARED FOR
Spire STL Pipeline

PREPARED BY
MOTT MACDONALD

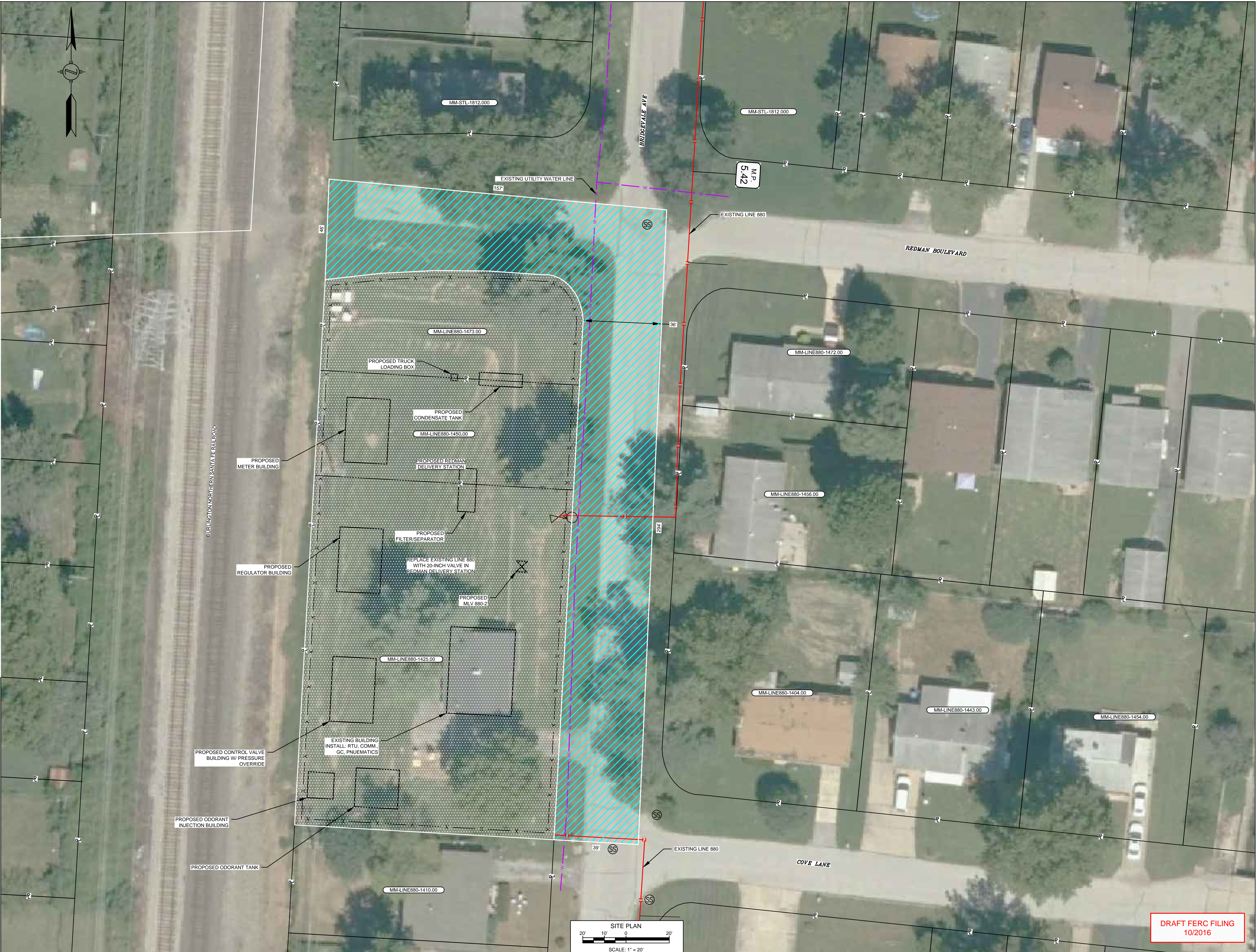
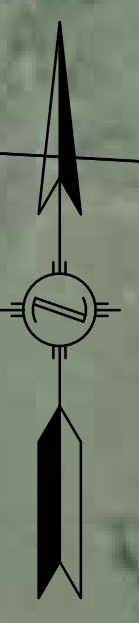
SPIRE STL PIPELINE PROJECT
LACLEDE/LANGE DELIVERY STATION
SITE LAYOUT
ST LOUIS COUNTY, MISSOURI

**DRAFT FERC FILING
10/2016**

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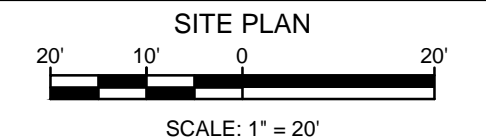


LOCATION MAP
N.T.S.



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	PROPOSED PERMANENT EASEMENT
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	ADDITIONAL TEMPORARY WORKSPACE (ATWS)
	PROPOSED CONTRACTOR YARD
	ACCESS ROAD
	PROPOSED 24-INCH DIAMETER PIPELINE
	PROPOSED 20-INCH DIAMETER LINE 880 RELOCATION
	EXISTING GAS PIPELINE
	EXISTING FOREIGN PIPELINE
	OVERHEAD POWER LINE
	EXISTING FIBER OPTIC LINE
	LINE LIST NUMBER
	PROPERTY LINE
	MUNICIPAL LINE
	WETLAND (DESKTOP)
	WETLAND (DELINEATED)
	OF STREAM (DESKTOP)
	OF STREAM (DELINEATED)
	PROPOSED FENCE
	UTILITY POLE
	STORM SEWER



DRAFT FERC FILING
10/2016

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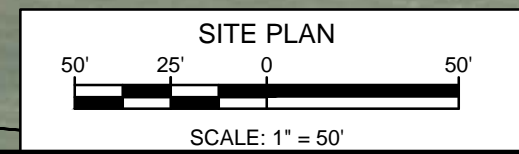


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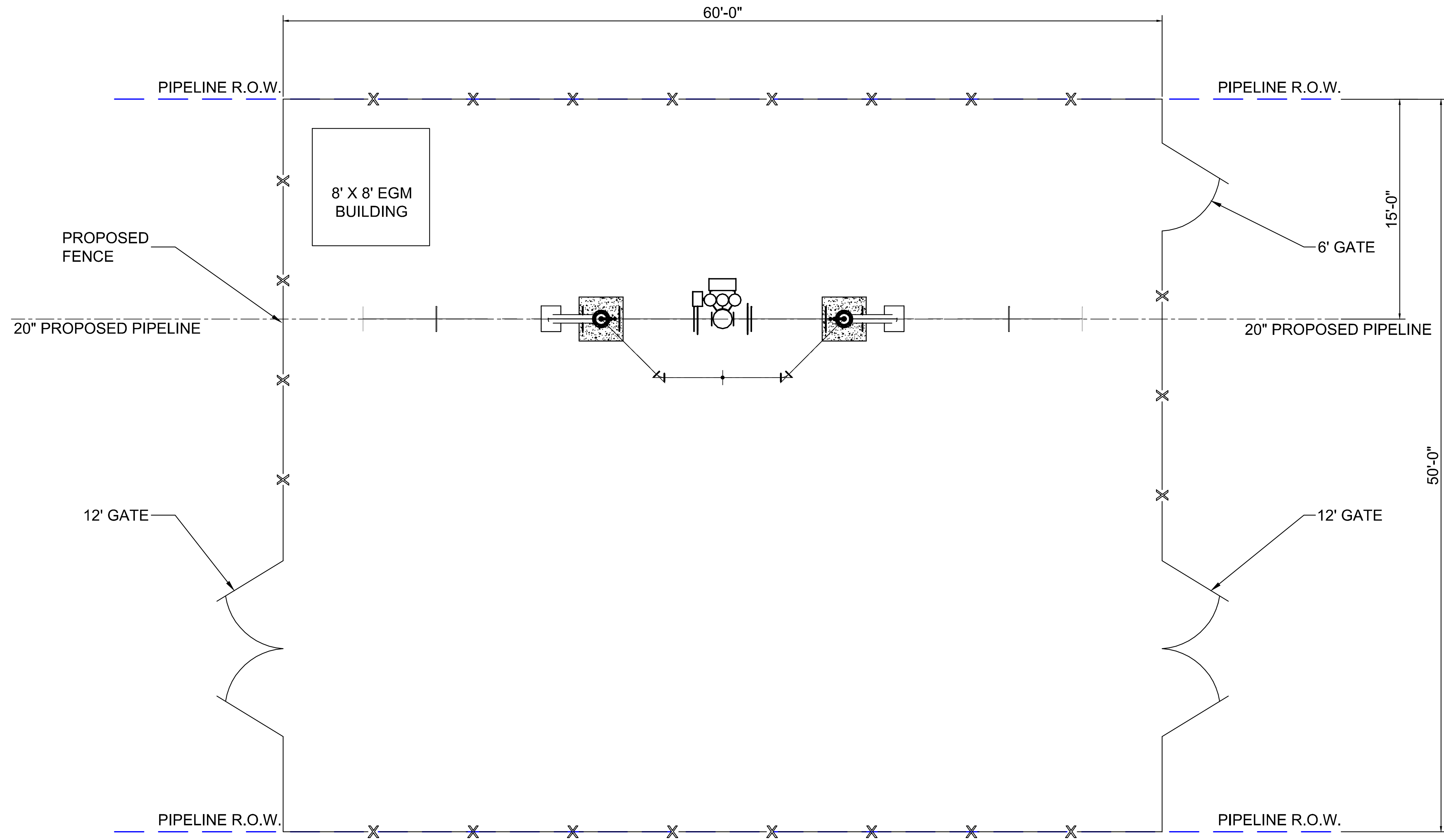
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- PROPOSED PERMANENT EASEMENT
- TEMPORARY WORKSPACE
- ADDITIONAL TEMPORARY WORKSPACE (ATWS)
- PROPOSED CONTRACTOR YARD
- ACCESS ROAD
- PROPOSED 24-INCH DIAMETER PIPELINE
- PROPOSED 20-INCH DIAMETER LINE 880 RELOCATION
- EXISTING GAS PIPELINE
- EXISTING FOREIGN PIPELINE
- OVERHEAD POWER LINE
- EXISTING FIBER OPTIC LINE
- MM-LINE880 LINE LIST NUMBER
- PROPERTY LINE
- MUNICIPAL LINE
- WETLAND (DESKTOP)
- WETLAND (DELINEATED)
- OF STREAM (DESKTOP)
- OF STREAM (DELINEATED)
- PROPOSED FENCE
- UTILITY POLE
- STORM SEWER



DRAFT FERC FILING
10/2016

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LOCATION MAP
N.T.S.



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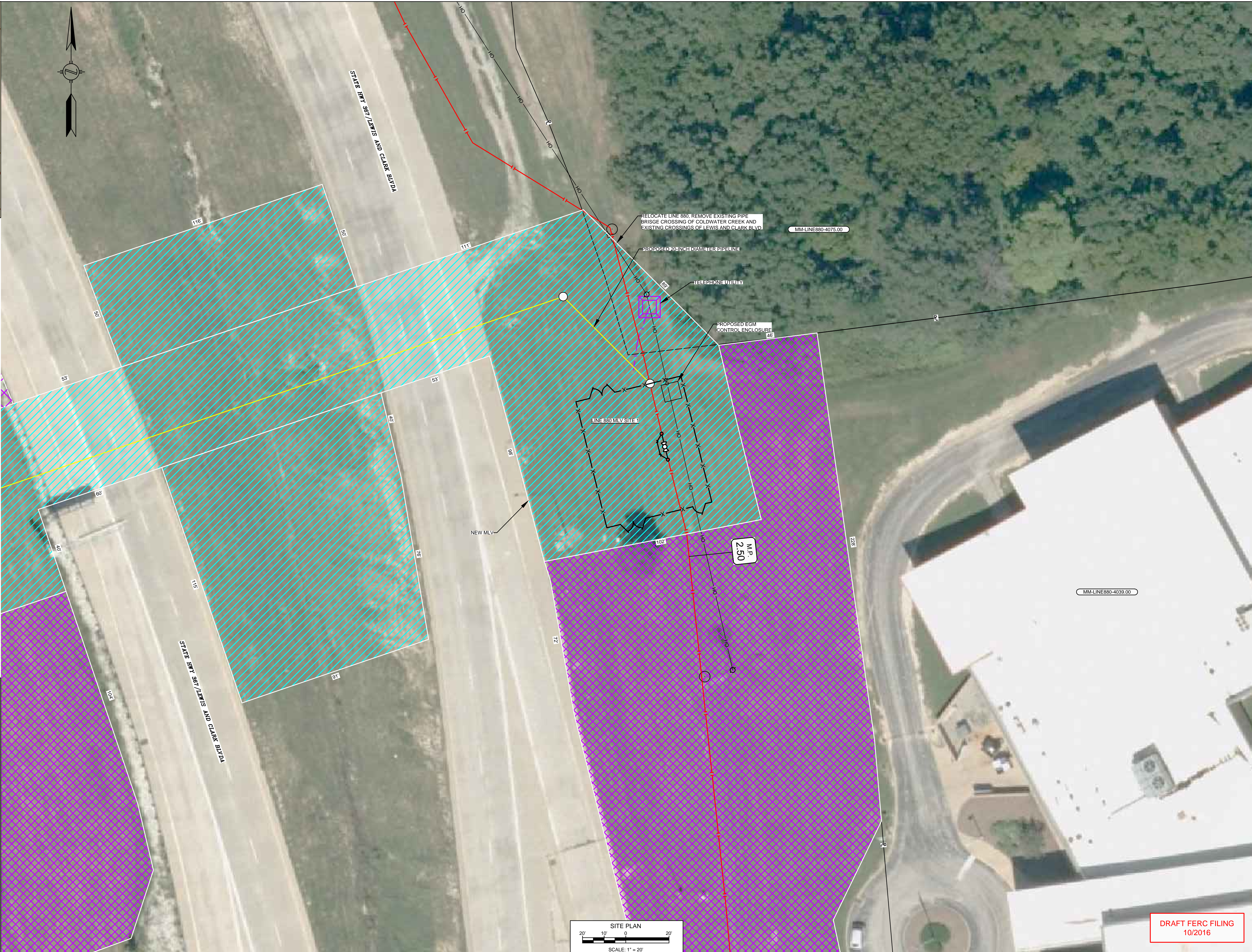
- EXISTING PERMANENT EASEMENT
- PROPOSED PERMANENT EASEMENT
- TEMPORARY WORKSPACE
- ADDITIONAL TEMPORARY WORKSPACE (ATWS)
- PROPOSED CONTRACTOR YARD
- ACCESS ROAD
- PROPOSED 24-INCH DIAMETER PIPELINE
- PROPOSED 20-INCH DIAMETER LINE 880 RELOCATION
- EXISTING GAS PIPELINE
- EXISTING FOREIGN PIPELINE
- OVERHEAD POWER LINE
- EXISTING FIBER OPTIC LINE
- LINE LIST NUMBER
- PROPERTY LINE
- MUNICIPAL LINE
- WETLAND (DESKTOP)
- WETLAND (DELINEATED)
- 10' OF STREAM (DESKTOP)
- 10' OF STREAM (DELINEATED)
- PROPOSED FENCE
- UTILITY POLE
- STORM SEWER

DRAFT FERC FILING
10/2016

REFERENCE DRAWINGS		REFERENCE DRAWINGS		REVISIONS				REVISIONS				APPROVALS					PREPARED FOR Spire STL Pipeline	PREPARED BY M MOTT MACDONALD	SPIRE STL PIPELINE PROJECT TYPICAL 24" MAINLINE VALVE INSTALLATION WITH BYPASS SITE LAYOUT			
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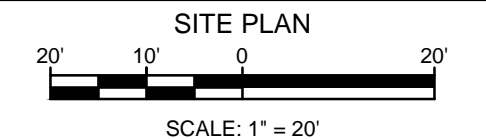


LOCATION MAP
N.T.S.



LEGEND

- EXISTING PERMANENT EASEMENT
- PROPOSED PERMANENT EASEMENT
- TEMPORARY WORKSPACE
- ADDITIONAL TEMPORARY WORKSPACE (ATWS)
- PROPOSED CONTRACTOR YARD
- ACCESS ROAD
- PROPOSED 24-INCH DIAMETER PIPELINE
- PROPOSED 20-INCH DIAMETER LINE 880 RELOCATION
- EXISTING GAS PIPELINE
- EXISTING FOREIGN PIPELINE
- OVERHEAD POWER LINE
- EXISTING FIBER OPTIC LINE
- LINE LIST NUMBER
- PROPERTY LINE
- MUNICIPAL LINE
- WETLAND (DESKTOP)
- WETLAND (DELINEATED)
- OF STREAM (DESKTOP)
- OF STREAM (DELINEATED)
- PROPOSED FENCE
- UTILITY POLE
- STORM SEWER



DRAFT FERC FILING
10/2016

REFERENCE DRAWINGS		REFERENCE DRAWINGS		REVISIONS					REVISIONS					APPROVALS					PREPARED FOR Spire STL Pipeline	PREPARED BY MOTT MACDONALD	SPIRE STL PIPELINE PROJECT LINE 880 MLV SITE-1 SITE LAYOUT ST LOUIS COUNTY, MISSOURI			
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																	EB	10/2016	JEW	10/2016				

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APPENDIX 1-H
Public Participation Plan
(to be provided in the FERC application)