

FLOODPLAIN DEVELOPMENT PERMIT APPLICATION

Application # PRPWFP20235236

Date: 11/21/23

TO THE ADMINISTRATOR: The undersigned hereby makes application for a permit to develop in a floodplain. The work to be performed, including flood protection works, is as described below and in attachments hereto. The undersigned agrees that all such work shall be done in accordance with the requirements of the Floodplain Management Ordinance, with all other applicable county/city ordinances, and the laws and regulations of the State of Missouri.

Spire Missouri, Inc.
Owner or Agent

Adam Watkins
Project Contact

700 Market Street, St. Louis, MO, 63101
Address

7500 East 35th Terrace, KC, MO, 64129
Address

314-342-0744
Phone

816-520-6496; adam.watkins@spireenergy.com
Phone & Email

SITE INFORMATION

1. Location: _____ 1/4; _____ 1/4; Section 24; Township 47 N; Range 32W

Property Address: 1902 SW River Run Drive, Lee's Summit, MO, 64082

2. Type of Development: Filling ☐ Grading ☒ Excavation ☒ Minimum Improvement ☐ Substantial Improvement ☐
Routine Maintenance ☐ New Construction ☒ Other ☐

3. Description of Development: Installation of natural gas pipeline via horizontal directional drilling (HDD) and open trench methods. HDD will be used in pipe sections traversing the floodplain and floodway. Existing grades will be restored such that no substantial change in topography will result.

4. Premises: Structure Size: N/A ft. x N/A ft. Area of site: N/A sq. ft.

Principal Use: Roadways and Easements Accessory Uses (storage, parking, etc.): N/A

5. Value of Improvement (fair market): \$ N/A Pre-Improvement/Assessed Value of Structure: \$ N/A

6. Property located in a designated FLOODWAY? Yes ☒ No ☐ (If Yes to Question 6, certification must be provided prior to permit issuance indicating this project will result in no increase in the 1%

7. Property located in a designated floodplain FRINGE? Yes ☒ No ☐ base flood elevations.)

8. Elevation of the 1% Base Flood / 100-year flood (ID source): 960' (varies) MSL/NGVD

9. Elevation of the proposed development site: N/A (below grade) MSL/NGVD

10. Elevation/floodproofing requirement: N/A MSL/NGVD

11. Other floodplain elevation information/FIRM panel numbers (ID and describe source): FIRM Panel 29095C0531G

12. Other Permits required? Corps of Engineer 404 Permit: Yes ☐ No ☒ Provided ☐

MO Dept. of Natural Resources: Yes ☐ No ☒ Provided ☐

NOTE: All provisions of City of Lee's Summit UDO Article 6, Division II, Floodplain Management Ordinance, shall be in compliance.

APPLICATION APPROVAL/DENIAL

Plans and Specifications Approved ☒ / Denied ☐ this 27th Day of December, 20 23
Craig R. Hoeflerlin
Craig R. Hoeflerlin (Oct 3, 2023 13:17 CDT)

Signature of Developer/Owner

Craig Hoeflerlin, Vice President - Operations Services & SMS
Print Name and Title

Authorizing Official

George M. Binger III / City Engineer
Print Name and Title

IF APPROVED, THIS PERMIT REQUIRES A CONDITION THAT THE LOWEST FLOOR (INCLUDING BASEMENT FLOOR) OF ANY NEW OR SUBSTANTIALLY-IMPROVED RESIDENTIAL BUILDING WILL BE ELEVATED 2 FEET ABOVE THE BASE FLOOD ELEVATION. IF THE PROPOSED DEVELOPMENT IS A NON-RESIDENTIAL BUILDING, PERMIT APPROVAL WILL REQUIRE A CONDITION THAT THE LOWEST FLOOR (INCLUDING BASEMENT) OF A NEW OR SUBSTANTIALLY IMPROVED NON-RESIDENTIAL BUILDING WILL BE ELEVATED OR FLOODPROOFED, 2 FEET ABOVE THE BASE FLOOD ELEVATION.

THIS APPLICATION IS USED WITH THE CONDITION THAT THE DEVELOPER/OWNER WILL PROVIDE CERTIFICATION BY A REGISTERED ENGINEER, ARCHITECT, OR LAND SURVEYOR OF THE "AS-BUILT" LOWEST FLOOR (INCLUDING BASEMENT) ELEVATION OF ANY NEW OR SUBSTANTIALLY-IMPROVED BUILDING COVERED BY THIS PERMIT APPLICATION.

No-Rise Certificate

Re: Spire – Lee’s Summit Pryor Road: Hood to Longview – BFA8022

I hereby certify that there will be No-Rise in the FEMA Base Flood Elevation due to Spire’s proposed project to install a gas line adjacent to the Cedar Creek, in Lee’s Summit, MO, Jackson County.

The hydraulic evaluation of this work in the Floodplain consists of the following:

- I have reviewed the construction work plan and construction details.
- I have determined there will be no net fill, or obstructions, added to the floodplain, or floodway, as a result of this project.
- The Gas Line will be installed via horizontal boring at stream crossings.
- The work area lies in the Cedar Creek Floodplain.

Based on these facts, the attached Construction Work Plans, and the attached screen shots and firm panel from the National Flood Hazard Layer there will be No-Rise caused by this work.




Raymond H Frankenberg II, President
Missouri Professional Engineer #22537
Certified Floodplain Manager #03-00825

11/20/2023

Date



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State of Missouri Floodplain Development Permit No.: _____

ENGINEERING "NO-RISE" CERTIFICATION

Community: Lee's Summit County: Jackson State: MO

Applicant: Spire Missouri Inc Date: 10/03/2023

Address: 700 Market St, St Louis

Telephone: 314-342-0744

Engineer: Raymond Frankenberg II

Address: 103 Elm, Washington, MO 63090

Telephone: 636-231-4310

SITE DATA

1. Location: _____¹/₄; _____¹/₄; Section 24; Township 47N; Range 32W

Street Address: 1902 SW River Run Drive, Lee's Summit, MO 64082 (nearest address)

2. Panel(s) No. of NFIP map(s) affected: Panel #282 of 29145C0282E

3. Type of Development: Filling ☐ Grading ☒ Excavation ☒ Minor Improv. ☐
Substantial Improv. ☐ New Construction ☒ Other ☐

4. Description of Development: Installation of natural gas pipeline via horizontal directional drilling (HDD) and open trench methods. Existing grades will be restored such that no substantial change in topography will result.

5. Name of Flooding Source: Cedar Creek

COMMENTS: This gas line installation project is configured such that the installation will not present any additional obstruction within the regulatory floodway and no fill or obstruction shall be placed within the regulatory floodplain.
Any areas of excavation will be returned to original grade and excess spoils removed.
All existing contours shall be maintained or re-established.

This is to certify that I am a duly qualified engineer licensed to practice in the State of Missouri. It is to further certify that the attached technical data supports the fact that the proposed development described above will not create any increase to the Base Flood Elevations, on the named flooding source, at published cross sections in the Flood Insurance Study for the above community dated 01/20/2017 and will not create any increase to the Base Flood Elevations at unpublished cross sections in the vicinity of the proposed development.

Name: Raymond H Frankenberg II

Signature: *Raymond H. Frankenberg II* Date: 11/20/2023

Title: PE, PLS, CFM for BFA License No.: E-22537





Job Description: Pryor Road - Hook to Longview

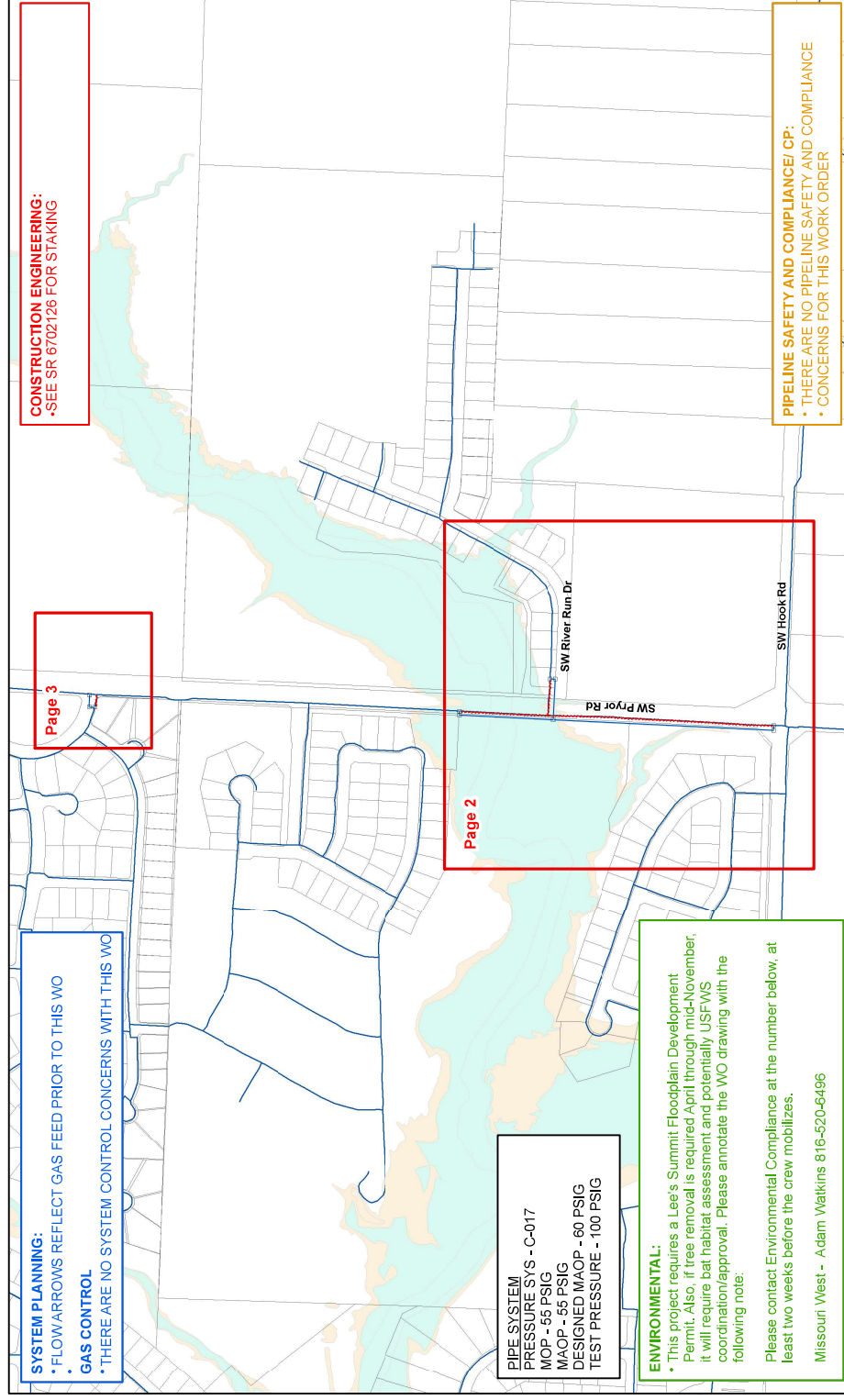
Maximo Work Order: 28693005

Region: South

TownCode: 0901

Sector: 0705

Project #: 806138



1. INSTALL AND ABANDON STEEL AND PLASTIC MAIN AND SERVICES PER SPIRE O&M STANDARDS.
2. SEE STD. 190.A FOR PRESSURE TESTING PIPING REQUIREMENTS.
3. SEE STD. 180.B FOR EVF AND/OR MANUAL SHUTOFF VALVE INSTALLATION REQUIREMENTS.
4. SEE STD. 170.I AND 190.G FOR TRACE WIRE AND TEST STATION INSTALLATION INFORMATION.
5. CORROSION PROTECTION INSPECTOR TO CHECK CATHODIC PROTECTION OF ALL EXISTING CATHODICALLY PROTECTED FACILITIES EXPOSED AND PROTECTED FACILITIES EXPOSED AND DIRECT STEPS NECESSARY TO MAINTAIN PROPER ISOLATION AND CATHODIC PROTECTION AS REQUIRED. A PIPE OBSERVATION REPORT IS TO BE CREATED IN MAXIMO ON READINGS.
6. INSTALL ANODES PER STD. 190.C AND/OR TEST STATIONS PER STD. 190.G PER INSTRUCTIONS FROM CORROSION PROTECTION INSPECTOR.
7. CONDUCT INITIAL CATHODIC PROTECTION SURVEY FOR NEW STEEL INSTALLATION. (See 190.I for Cathodic Protection at Tie Ins)
8. CREATE PIPE OBSERVATIONS IN MAXIMO TO DOCUMENT EXPOSED PIPE CONDITIONS PER STD. 190.A. External Corrosion.
9. FOR UTILITY LOCATES, CALL ONE-CALL SYSTEM "811" OR (1-800-344-7483), AND ALL OTHER AFFECTED UTILITIES.
10. CONTACT GIS DEPARTMENT FOR NECESSARY FIELD NOTES AT 314-349-2963.
11. CONTACT ROW TO SECURE NECESSARY EASEMENTS AND FOR ANY SURVEY WORK@ (314-658-5497 OR 314-349-2933).
12. SEE STD. 170.J FOR SQUEEZE-OFF PROCEDURE
13. SEE STD. 170.A FOR GAS INTERRUPTION PROCEDURE REQUIREMENTS. CONTACT SYSTEM CONTROL AT 314-658-5486 OR 314-658-5488 PRIOR TO ANY WORK.
14. SEE STD. 150.A AND 150.E FOR RADIOGRAPHIC EXAMINATION REQUIREMENTS.
15. SPIRE PERSONNEL SHOULD FOLLOW STANDARD PRECAUTIONS REGARDING THE POTENTIAL FOR DRIP OIL TO BE PRESENT IN ACTIVE GAS MAINS AND ADHERE TO APPROVED PROCEDURES FOR MANAGEMENT/DISPOSAL OF ANY PIECES OF PIPE GENERATED IN THE COURSE OF ABANDONMENT. ANY DOCUMENTED DRIPS SHOULD BE CLEARED AND DRAINED BEFORE ABANDONMENT.

Work Order Authorization

Designer:	BKW
Revision Date(s):	
Original Date:	8-21-23

Main & Service

- Existing
- Install
- Proposed
- Abandon
- Gas Pipe Casing

Gas Valve

- Ball
- Butterfly
- Gate
- Plug
- Blow Down

Take Point

- Drip
- Test Station
- Regulator Station
- Meter Setting
- Marker Post

Electronic Marker

- Service Tee
- Stopper / Bottom Outlet
- Coupling
- Insulated Coupling
- Trace Wire Box

End Cap

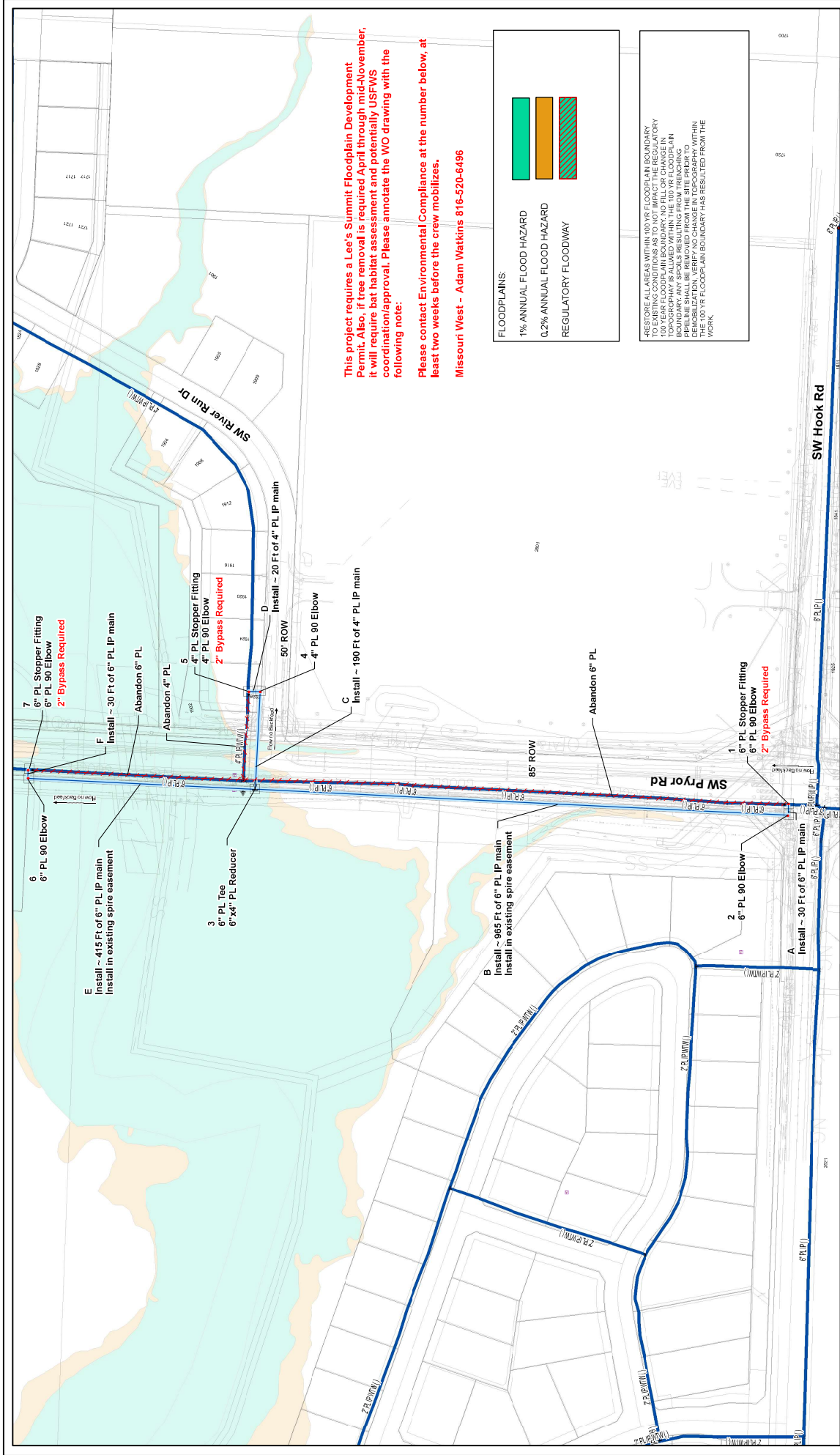
- Flange
- Insulated Flange
- Cross
- Reducer
- Tee

Vertical Ell

- Bend
- Exposed Pipe
- Recifier
- Recifier Cable
- SteamLines

Street Car Tracks

- RCP Reinforced Concrete Pipe
- CMP Corrugated Metal Pipe
- Contamination
- DNR Tanks
- DNR Remediation



This project requires a Lee's Summit Floodplain Development Permit. Also, if tree removal is required April through mid-November, it will require bat habitat assessment and potentially USFWS coordination/approval. Please annotate the WO drawing with the following note:

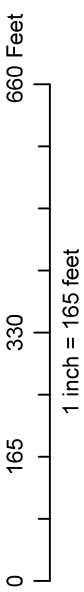
Please contact Environmental Compliance at the number below, at least two weeks before the crew mobilizes.

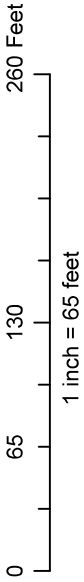
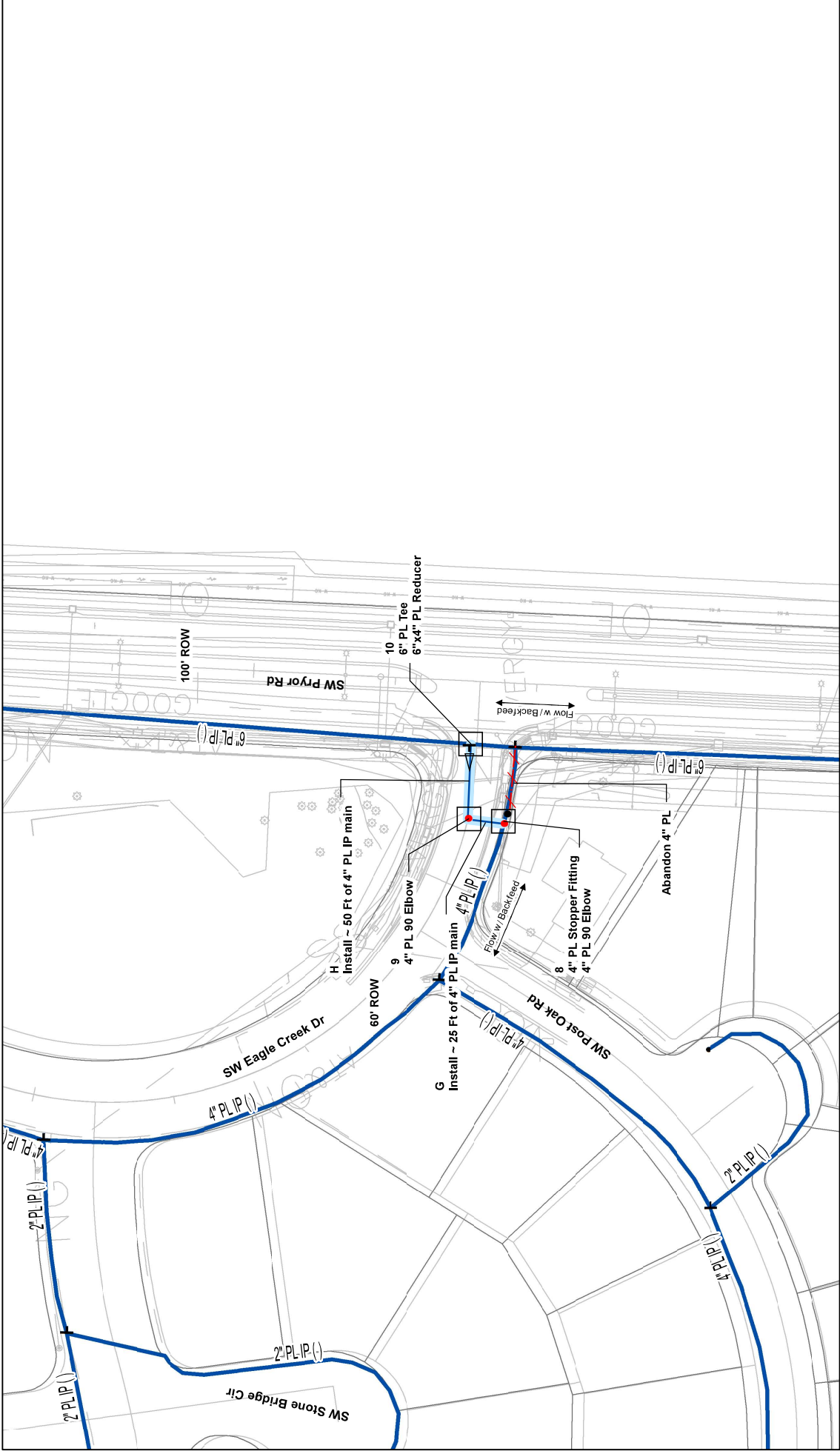
Missouri West - Adam Watkins 816-520-6496

FLOODPLAINS:

- 1% ANNUAL FLOOD HAZARD
- 0.2% ANNUAL FLOOD HAZARD
- REGULATORY FLOODWAY

RESTORE ALL AREAS WITHIN ANV'S FLOODPLAIN BOUNDARY TO EXISTING CONDITIONS AS TO NOT IMPACT THE REGULATORY 100 YEAR FLOODPLAIN BOUNDARY. NO FILL OR CHANGE IN ELEVATION SHALL BE ALLOWED WITHIN THE FLOODPLAIN BOUNDARY. ANY SOILS RESULTING FROM TRENCHING PIPELINE SHALL BE REMOVED FROM THE SITE PRIOR TO RELOCATING THE PIPELINE. ANY SOILS REMAINING WITHIN THE 100 YR FLOODPLAIN BOUNDARY HAS RESULTED FROM THE WORK.





National Flood Hazard Layer FIRMette

94°25'15"W 38°52'35"N



Legend

SEE FIS REPORT FOR DETAILED LEGEND AND INDEX MAP FOR FIRM PANEL LAYOUT

SPECIAL FLOOD HAZARD AREAS

- Without Base Flood Elevation (BFE)
Zone A, V, A99
- With BFE or Depth
Zone AE, AO, AH, VE, AR
- Regulatory Floodway

OTHER AREAS OF FLOOD HAZARD

- 0.2% Annual Chance Flood Hazard, Areas of 1% annual chance flood with average depth less than one foot or with drainage areas of less than one square mile
Zone X
- Future Conditions 1% Annual Chance Flood Hazard
Zone X
- Area with Reduced Flood Risk due to Levee, See Notes, Zone X
- Area with Flood Risk due to Levee
Zone D

OTHER AREAS

- Area of Minimal Flood Hazard
Zone X
- Effective LOMR
- Area of Undetermined Flood Hazard
Zone D

GENERAL STRUCTURES

- Channel, Culvert, or Storm Sewer
- Levee, Dike, or Floodwall

Cross Sections with 1% Annual Chance Water Surface Elevation

- 20.2
- 17.5
- 8
- Coastal Transect
- Base Flood Elevation Line (BFE)
- Limit of Study
- Jurisdiction Boundary
- Coastal Transect Baseline
- Profile Baseline
- Hydrographic Feature

OTHER FEATURES

- Digital Data Available
- No Digital Data Available
- Unmapped

MAP PANELS

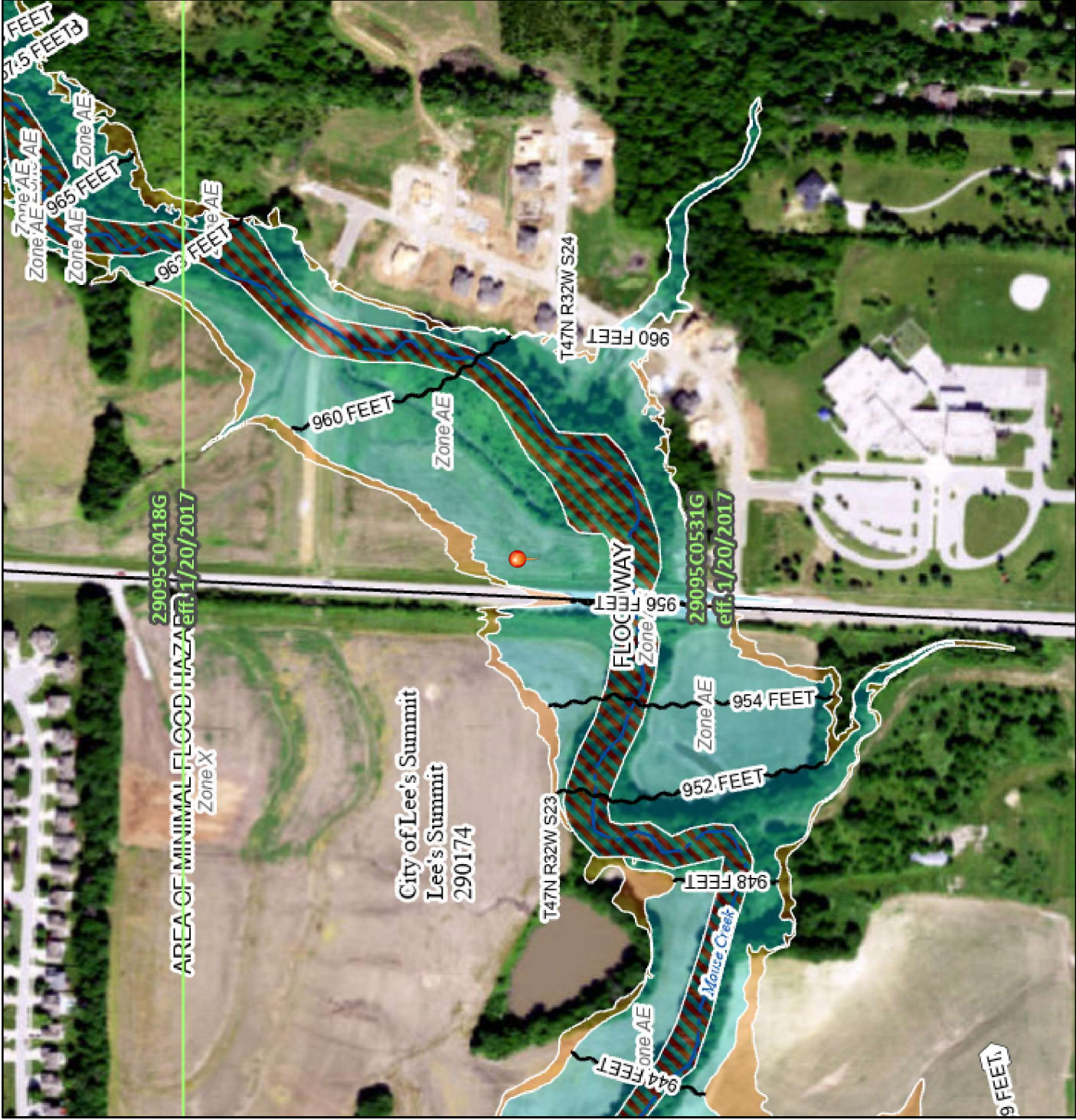
- Digital Data Available
- No Digital Data Available
- Unmapped

The pin displayed on the map is an approximate point selected by the user and does not represent an authoritative property location.

This map complies with FEMA's standards for the use of digital flood maps if it is not void as described below. The basemap shown complies with FEMA's basemap accuracy standards.

The flood hazard information is derived directly from the authoritative NFHL web services provided by FEMA. This map was exported on 10/13/2023 at 4:00 PM and does not reflect changes or amendments subsequent to this date and time. The NFHL and effective information may change or become superseded by new data over time.

This map image is void if the one or more of the following map elements do not appear: basemap imagery, flood zone labels, legend, scale bar, map creation date, community identifiers, FIRM panel number, and FIRM effective date. Map images for unmapped and unmodernized areas cannot be used for regulatory purposes.



94°24'38"W 38°52'7"N

