

**This document is CONFIDENTIAL and is provided solely for the recipient's use for planning purposes and is valid only on the date it was received from Flint Hills Resources, LC ("FHR")**

**This document provides general requirements for foreign line crossings and excavating around FHR pipelines. However, each project is unique and may need additional review and approval.**

**It is important to reach out to an FHR representative during the project planning phase to discuss details of the project and to allow appropriate time to review and gain the necessary approvals for the project.**

- Please submit plans/prints for your project, which must also show the following:
  - Location of all FHR owned and operated pipelines and facilities.
  - The width of FHR easement.
  - A standard warning statement containing the following language:

**WARNING:  
HIGH-PRESSURE PIPELINE(S)**

Excavation and/or Construction Prohibited

without contacting the **State One-Call AND**

Obtaining Permission From

**Flint Hills Resources, LC**

- A verbal encroachment agreement is needed however, a written encroachment agreement may also be needed. Discuss with local FHR operations and/or an FHR Right of Way Agent during the planning phase of the project to determine if a written encroachment agreement will be needed.
- FHR pipeline depth, alignment, and direction shall be verified prior to excavating and/or execution of a foreign line crossing.
- Site holes are required for HDD/Bored crossings. If site holes are not practicable (i.e. the pipeline is deep) FHR approval is needed before crossing.
- An FHR representative must be on site for all excavation **(to include exposing the pipeline using hand tools, pot holing, and hydro excavation)**, within 25ft of an FHR pipeline unless, otherwise agreed upon by FHR.
- Minimum clearance between the FHR pipeline and foreign line shall be 24inches or 1 ½ times the diameter of the foreign structure, whichever is greater.
- Foreign crossing shall cross as close to a 90-degree angle as possible, but not less than a 60-degree angle, without approval from the local FHR Asset Owner or designee.
- Electric, fiber optic, and communication mainline cable crossings shall be in conduit or innerduct and extend a minimum of 20ft beyond the outermost pipeline(s).
- Permanent and temporary road/parking lot/driveway or similar crossing require a loading review and approval to be performed by an FHR representative.
- Overhead powerlines that are 69 kV or greater and parallel within 1,000 feet of the pipeline for a collocation length 1,000 feet or greater require FHR Corrosion review and approval.
- Due to potential for fault arcing, powerline support poles or tower grounding proposed within 50 feet of the pipeline require FHR Corrosion review and approval.
- Power substations within 500 feet of the pipeline require FHR Corrosion review and approval.
- Solar arrays or related grounding within 50 feet of the pipeline or within 300 feet of an FHR CP ground bed require FHR Corrosion review and approval.
- Foreign line crossings that are cathodically protected, steel, or steel cased, require FHR Corrosion review and approval.
- Removing and/or adding cover over FHR pipelines requires FHR review and approval.
- Backfilling an exposed FHR pipeline requires special care and shall be conducted under the direction of an FHR company representative.
- The use of an excavator bucket with teeth is not allowed when digging within close proximity to FHR unless agreed upon by FHR.
- The use of an excavator bucket with side cutter is not allowed when digging within close proximity to FHR.

**In addition, the following activities require prior review and approval by FHR engineering or designee:**

- Unsupported pipe spans greater than 20ft or open excavation paralleling an FHR pipeline in close proximity for a distance of 20 ft or greater.
- Deep foreign crossings (subject to FHR pipeline depth).
- Matting or soil to increase the material over the pipeline to support weight of excavating equipment, trucks, etc...
- Vibratory compaction within 25ft of pipeline(s).
- Pile driving or guillotine pavement breaking practices that take place within 50ft of pipeline(s).
- Any blasting within 1000ft of an FHR pipeline (a blasting plan is required).

Acknowledgment of receipt and review with qualified Flint Hills Resources employee

Print

Sign

Date

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FHR Employee

Print

Sign

Date

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