

STAFF REPORT

04/17/2023

PERMIT NO. 670

ITEM: Floodplain Permit application is for the installation of a water transmission line immediately south of Robinson St. and on the east side of 36th Ave NE.

BACKGROUND:

APPLICANT: Norman Utilities Authority

CONTRACTOR: Cimarron Construction Company

ENGINEER: Freese and Nichols, Inc.

The City of Norman Utilities Department is installing approximately 309 feet of 8-inch water transmission line along 36th Ave. SE just south of Robinson Street. The installation of the new water line through the floodplain will be primarily through directional drilling under the channel at approximately 10 feet below the bottom. Any disturbed land in the floodplain will be returned to the original lines and grades. Any excess spoils will be removed and disposed of outside the floodplain. Equipment and materials can and will be removed from the floodplain area if a flood warning is issued.

STAFF ANALYSIS:

Site located in Little River Basin or its Tributaries? yes ☒ no ☐

According to the DFIRM, the project is located in the Little River floodplain Zone A [no base flood elevations (BFEs) have been determined].

Applicable Ordinance Sections:

429.1 4(b)(1)
4(b)(10)
4(b)(11)
5(a)(viii)

Subject Area:

Fill restrictions in the flood plain
Utilities constructed to minimize flood damage
In/exfiltration of flood waters in utility systems
No rise considerations

4(b)(1) Fill Restrictions in the Flood Plain

No fill will be brought into the floodplain as part of this project; therefore no compensatory storage is required.

4(b)(10) All new construction or substantial improvements shall be constructed with electrical, heating, ventilation, plumbing, and air conditioning equipment and other service facilities that are designed and/or located so as to prevent water from entering or accumulating within the components during conditions of flooding. All public utilities and facilities shall be constructed to minimize flood damage.

The waterline pipe joints have gaskets making the system watertight, and the entire system is leak tested prior to going into service.

4(b)(11) All new and replacement water supply systems shall be designed to minimize or eliminate infiltration of flood waters into the system.

The pipe joints have gaskets making the system watertight, and the entire system is leak tested prior to going into service.

5(a)(viii) No Rise Considerations – Any encroachments, including fill, new construction, substantial improvements, and other development, within any floodway of the designated Flood Hazard District that would result in any increase in flood levels during the 1 percent chance flood are prohibited.

The applicant's engineer has certified that the project will not cause a rise in the BFE, which meets the ordinance requirements.

RECOMMENDATION: Staff recommends Floodplain Permit Application #670 be approved.

ACTION TAKEN: _____