

ITEM: Floodplain Permit application for proposed installation of an outdoor rifle marksmanship shooting lane at 3800 Jenkins Ave. at the existing CoN police gun range in the Canadian River floodplain.

BACKGROUND:

APPLICANT: City of Norman

ENGINEER: City of Norman – Brandon Brooks, P.E., CFM

This project involves the excavation, grading, and construction of an outdoor rifle marksmanship shooting lane. The construction entails the installation of 6, 10' X 30' X 4" concrete pads located at 0, 25, 50, 75, 100, 200, and 300 yards from a berm. The berm is located outside of the floodplain. Each pad site will be installed flush with the existing grade. The police department is also intending to construct a drivable surface at existing grade utilizing road millings compacted to a thickness of 4" and located 30' away from a drainage channel. The surface is not intended for use by passenger vehicles, but is intended for use by small, light-service utility vehicles (golf cart, side-by-side, etc.). Compacted asphalt road millings will result in a permeable surface. Additionally, a low water crossing will be constructed to cross the existing channel at the current flow line. The low water crossing will be lined with flexamat. All excavated material generated during construction will be used to build the berm.

The channel flow line and banks of the drainage channel will not be altered for this project with the exception of the low water crossing which will be installed at the existing channel grade and stabilized with flexamat. All exposed ground will be stabilized during and after construction. There will not be any increase in the Base Flood Elevation at any of this location.

STAFF ANALYSIS:

Site located in Little River Basin or Tributaries? yes__ no✓

According to the latest DFIRM, portions of this project are located within the Canadian River floodplain and floodway (Zone AE).

Applicable Ordinance Sections:	Subject Area:
36-533 (e)(2)(a).....	Fill restrictions in the floodplain
(e)(2)(e).....	Compensatory storage
(f)(3)(8)	No rise considerations

(e)(2)(a) and (e)(2)(e) Fill Restrictions in the Floodplain and Compensatory Storage – The use of fill is restricted in the floodplain unless compensatory storage is provided.

The project engineer has indicated that all new installation of concrete pads, asphalt millings and flexamat will be installed at grade. Any excavated material will be used to construct the berm behind the target area, outside of the floodplain.

(f)(3)(8) No Rise Considerations – For proposed development within any flood hazard area (except for those designated as regulatory floodways), certification that a rise of no more than 0.05 ft. will occur in the BFE on any adjacent property as a result of the proposed work is required.

The project engineer has indicated that proposed projects involves no fill or significant changes to the flow line or banks of the drainage channel, therefore no impact to the BFE will occur.

RECOMMENDATION: Staff recommends Floodplain Permit Application #691 be approved.

ACTION TAKEN: _____