

Norman Borrow Pit No Rise Analysis

March 2026

Prepared for:
F5 Welding & Dozer Service

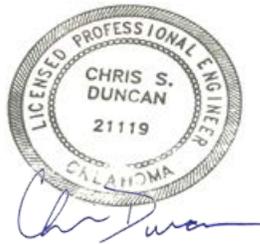


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SECTION 1. EXECUTIVE SUMMARY

This report provides the necessary information to determine that the proposed grading does not cause a rise in water surface elevations. The proposed grading is located south of Indian Hills Road and west of S Western Avenue and includes a construction road and excavation of a borrow pit on a portion of the property within the existing Zone AE floodplain.

The reason for the no-rise certification is that the proposed grading is within the Ten Mile Flat Creek floodplain. Ten Mile Flat Creek is mapped by the Federal Emergency Management Agency (FEMA) as a Zone AE at the project site.

In general, the proposed grading will be creating a borrow pit so that the excavated soil can be used on the nearby Oklahoma Turnpike Authority (OTA) roadway project. No fill will be utilized and no berming of soil will take place.

Affected FIRM panel: 40027C0170J

SECTION 2. DELIVERABLES

Narrative Report

Project Location Map

Annotated FIRM

Signed Engineer Certification of No Rise

SECTION 3. NO RISE DETERMINATION

3.1 PROPOSED CONDITIONS

The proposed work will include a construction road from Indian Hills Road south to the proposed borrow pit. The borrow pit is approximately 1,700' south of Indian Hills Road. To construct the road, the topsoil will be scraped to create a compacted soil road. No gravel will be placed on the road. The borrow pit is approximately 2 acres and the intent is to dig it approximately 10-12' feet. This pit will eventually fill with water and be a pond for the landowner to utilize. Extra topsoil will be utilized to dress the side slopes of the pond. No stockpiles of topsoil will be left after construction.

Since this project has no or minimal change to the existing ground elevations, no modeling is necessary to determine a no rise. Since grades are not changing (above existing grade) there would be no changes in the model and therefore it would produce a no rise condition.

A schematic of the proposed work is included in Appendix A.

SECTION 4. RESULTS

A no-rise condition is achieved with the proposed work because there will be no elevated grade change in the project area. There will only be excavation.

An annotated FIRM is included in Appendix B. The No Rise Certificate is in Appendix C.

Appendix A: Proposed Schematic



F5 Welding & Dozer Service

5629 W Broadway St

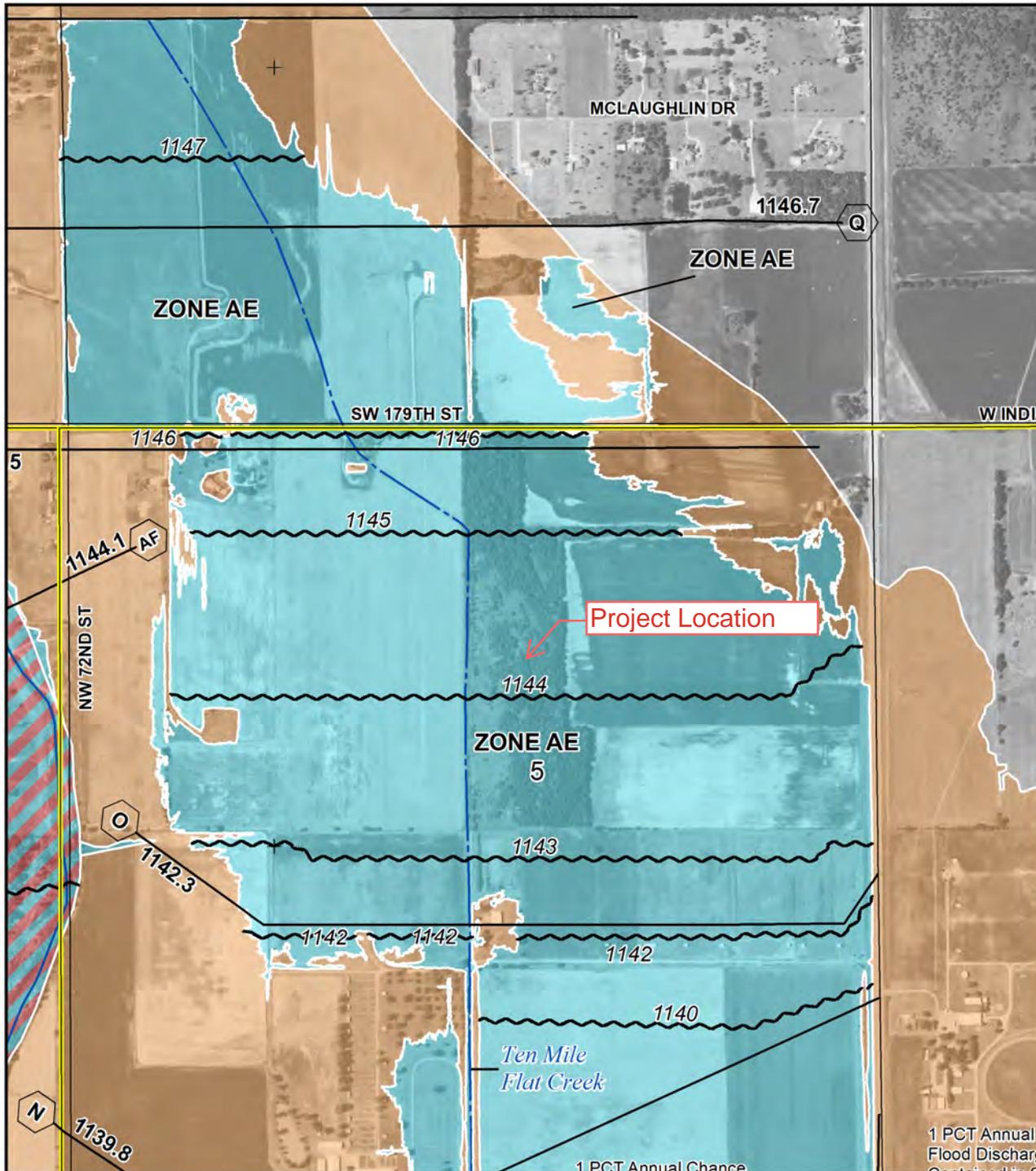
Ardmore, OK 73401

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Appendix B: Annotated FIRMette



Map Projection:
 State Plane Oklahoma South FIPS 3502 Feet; North
 Western Hemisphere; Vertical Datum: NAVD 88

1 inch = 1,000 feet



FEMA
 National Flood Insurance Program

NATIONAL FLOOD INSURANCE PROGRAM
 FLOOD INSURANCE RATE MAP

CLEVELAND COUNTY, OKLAHOMA
 and Incorporated Areas

PANEL 170 OF 475



Panel Contains:

COMMUNITY	NUMBER	PANEL	SUFFIX
CLEVELAND COUNTY, UNINCORPORATED AREAS	400475	0170	J
MOORE, CITY OF	400044	0170	J
NORMAN, CITY OF	400046	0170	J
OKLAHOMA CITY, CITY OF	405378	0170	J

VERSION NUMBER
 2.4.3.5

MAP NUMBER
 40027C0170J

MAP REVISED
 January 15, 2021

This is an official FIRMette showing a portion of the above-referenced flood map created from the MSC FIRMette Web tool. This map does not reflect changes or amendments which may have been made subsequent to the date on the title block. For additional information about how to make sure the map is current, please see the Flood Hazard Mapping Updates Overview Fact Sheet available on the FEMA Flood Map Service Center home page at <https://msc.fema.gov>.

Appendix C: No-Rise Certificate



ENGINEERING CERTIFICATION OF NO-RISE

Client: F5 Welding & Dozer Service
County: Cleveland
State: OK

Engineer: Chris Duncan, PE, CFM
Firm: WSB LLC
Address: 426 S Utica Ave.
Tulsa, OK 74104
Phone: (918) 606-2779

Site Details:

Flooding Source: Ten Mile Flat Creek

Affected FIRM Panels:

- FIRM ID: 40027C, Panel 0170J, Effective Date: 01/15/2021

Type of Development: Earthwork/Grading

Description: Proposed borrow pit/pond.

General Location: 1700 feet south of Indian Hills Road and 2100 feet west of S Western Avenue

This is to certify that I am a qualified, licensed, professional engineer in the State of Oklahoma. This project is not increasing the existing grade and therefore will not have an adverse impact on the water surface elevations of Ten Mile Flat Creek.

Name: Chris Duncan, PE, CFM

Signature: 

Title: H&H Department Manager

Date: 03-04-2026

License No.: OK 21119

