

This is **EXHIBIT A**, consisting of 2 pages, to be incorporated into the **Agreement between Owner and Engineer for Professional Services** dated April 25, 2017.

**AMENDMENT TO OWNER-ENGINEER AGREEMENT**  
**Amendment No. 1**

1. *Background Data:*

- a. Effective Date of Owner-Engineer Agreement: April 25, 2017
- b. Owner: City of Norman
- c. Engineer: Meshek & Associates, LLC
- d. Project: Vineyard Addition Drainage Improvements

2. *Description of Modifications:*

- a. Engineer shall perform or furnish the following Additional Services: Additional detailed survey, hydrology and hydraulics, and preparation of construction plans. This work will be to prepare final construction plans for the drainage improvements in the Vineyard subdivision as identified in the January 29, 2016 report prepared by Meshek & Associates.
- b. The Scope of Services currently authorized to be performed by Engineer in accordance with the Agreement and previous amendments, if any, is modified as follows:

This amendment shall include:

- Project Administration –scheduling, invoicing, communication, progress meetings and general project management time.
- Survey –CONSULTANT will perform all surveying required for the completion of the project. A detailed topographical survey locating all adjacent property lines, easements, fences, trees, utilities (above and below ground), and the pertinent flow information of the system will be performed. Survey data will include alignment ties to corners or monuments. All proposed easement, Rights-of-Way, etc. required for the construction of the project will be staked.
- Kickoff Meeting – CONSULTANT will meet with City staff to discuss findings of the survey data and review of existing data.
- Hydrology Modeling – CONSULTANT will develop a HEC-HMS hydrograph model to determine the flow rates to the proposed storm sewer. CONSULTANT will utilize available data from the Master Drainage Plan for comparison.

- Hydraulic Modeling – CONSULTANT shall prepare a hydraulic model to identify the capacity of the proposed storm sewer improvements. It is anticipated that will convey the 10 Percent Annual Chance (10-Year) storm and reduce flooding risk for the 1 Percent Annual Chance (100-year) event.
- Develop Final Construction Plans – After meeting with the OWNER, CONSULTANT will prepare construction plans for the selected alternative and a drainage report documenting the design of the drainage system.
  - Construction plans shall include:
    - Cover sheet
    - Pay quantities
    - Pay item and general construction notes
    - Drainage structure design summaries
    - Storm sewer plan and profile sheets
    - Pavement replacement plans (as needed)
    - Utility relocation plans (as needed)
    - Traffic control and construction phasing plans (as needed)
    - Cross-Sections

c. For the Additional Services or the modifications to services set forth above, Owner shall pay Engineer the following additional or modified compensation: All work will be billed on a lump sum basis not to exceed \$30,000.00.

VINEYARD SUBDIVISION	COMPENSATION
Project Management	\$980.00
Surveying	\$9,263.76
Hydrologic & Hydraulic Alternative Analysis	\$2,500.00
Preliminary Design	\$9,416.24
Final Design	\$4,100.00
Bidding & Construction Services	\$3,740.00
<b>VINEYARD SUBDIVISION TOTAL</b>	<b>\$30,000.00</b>

e. The schedule for rendering services is modified as follows: The services included in the amendment will be completed within 180 days of the notice-to-proceed.

*(continued on next page)*

5. Agreement Summary

a. Original Agreement amount:	\$ <u>243,504.00</u>
b. Net change for prior amendments:	\$ <u>0.00</u>
c. This amendment amount:	\$ <u>30,000.00</u>
d. Adjusted Agreement amount:	\$ <u>273,504.00</u>

Owner and Engineer hereby agree to modify the above-referenced Agreement as set forth in this Amendment. All provisions of the Agreement not modified by this or previous Amendments remain in effect. The Effective Date of this Amendment is \_\_\_\_\_.

OWNER:

ENGINEER:

\_\_\_\_\_

  
\_\_\_\_\_

By: \_\_\_\_\_

By: Mr. Brandon Claborn, PE, CFM

Title: \_\_\_\_\_

Title: CEO

Date  
Signed: \_\_\_\_\_

Date Signed: 10/3/2017