



Engineering Department

DATE: June 18, 2019
FROM: Gabe Schell, City Engineer
ITEM: US83/ND1804 Watershed Masterplan – Unit Rate Update

REQUEST

Approval of Amendment 2 to Task Order 4 of the Professional Engineering Services, utilizing the Stormwater Operations and Maintenance Contract.

Please place this item on the 6/25/2019 City Commission meeting agenda.

BACKGROUND INFORMATION

At the November 13, 2018 Commission meeting, Task Order 4 was approved utilizing the Public Works – Utilities Stormwater Operations and Maintenance Contract. Task Order 4 authorized the completion of a Unit Rate conversion and update to the previously approved US83/ND1804 Watershed Masterplan. Through that update, a draft allowable unit rate discharge within the watershed and draft development setback lines were determined.

Upon review of the proposed development setback line by the primary owner and developer of Section 9, it was requested of the City to modify and reduce the development setback in a portion of the watershed. To accommodate this request, additional information from the developer has been requested to allow for the required analysis by the City's consultant.

Attached is the scope of work and fee of Amendment 2.

RECOMMENDED CITY COMMISSION ACTION

Approve Amendment 2 to Task Order 4 to the Professional Engineering services under the Stormwater Operations and Maintenance Contract with AE2S.

STAFF CONTACT INFORMATION

Gabe Schell, PE | City Engineer, 355-1505 or gschell@bismarcknd.gov

Amendment to Task Order No. 4, consisting of 3 pages, referred to in and part of **Short Form of Task Order Agreement Between Owner and Engineer for Professional Services**, dated November 13, 2018

1. Background Data:

- a. Effective Date of Task Order: November 13, 2018
- b. Owner: City of Bismarck
- c. Engineer: Advanced Engineering and Environmental, Inc.
- d. Specific Project (title): US 83/ND1804 Watershed Master Plan - Unit Rate Update
- e. Specific Project (description): Develop an allowable unit rate approach to stormwater management in the US83/ND1804 watershed. This project will utilize background materials developed during the adopted watershed master plan. The result of this task order will be a unit rate discharge recommendation for onsite local BMPs to replace the regional BMPs originally recommended.

Modification to a unit rate method of stormwater management is being requested by the City to provide watershed mitigation of increased runoff rates from development by using BMPs that can be installed to match the pace of development while reducing the overall costs to the stormwater utility from holding special assessments in abeyance.

2. Description of Modifications

- a. Engineer shall perform the following Additional Services:
Perform hydrologic and hydraulic modeling and develop alternatives for management of stormwater conveyance from land in Section 9 proposed for development. The land owner of the subject property has requested a deviation from the adopted Watershed Master Plan and the proposed Revised Unit Rate Master Plan. Work will consist of:

Alternative 1 - Iterate InfoSWMM model to develop revised Unit Rate for the entire Master Planned Watershed to meet setback requirements requested in Section 9. This alternative makes the following assumptions:

- i. Proposed Setbacks will not be increased in other areas to accommodate the requested setback reduction.
- ii. Crossings outside of Yukon South, Ridgeland South, and Yukon and 64th will not be modified.
- iii. Cross-sections with the grading requirements (3H:1V slopes from requested setback line shapefile) will be developed based on shapefile provided by others.

Alternative 2 - Iterate InfoSWMM model to develop revised Unit Rate only for Section 9 to accommodate requested setback line modifications. This alternative makes the following assumptions:

- i. Proposed Setbacks will not be increased in other areas to accommodate the requested setback reduction
- ii. Crossings outside of Yukon South, Ridgeland South, and Yukon and 64th will not be modified
- iii. Cross-sections with the grading requirements (3H:1V slopes from requested setback line shapefile) will be developed based on shapefile provided by others.

Recommendations for Street Crossing Modifications – For both Alternative 1 and Alternative 2 provide conceptual recommendations for the street crossings at Yukon South, Ridgeland South, and Yukon\64th Avenue Crossings to provide sufficient conveyance capacity to meet the requested setback limits and to meet State Stream Crossing Standards.

- b. Deliverables included in this amendment are described as follows:
 1. E-mail Summary of work conducted, required changes to crossings, unit rate requirements, and
 2. Figure showing the setback line comparison in Section 9.
- c. For the Additional Services or the modifications to services set forth above, Owner shall pay Engineer the following additional or modified compensation:
 1. An amount equal to the cumulative hours charged to the Project by each class of Engineer's employees times standard hourly rates for each applicable billing class for all service performed on the Specific Project, plus reimbursable expenses and Engineer's consultant' charges, if any.
 2. Engineer's Standard Hourly Rates as shown in Appendix 1 to this Amendment.
 3. The amended compensation for services and reimbursable expenses will not exceed \$19,800.
- d. The schedule for rendering services under this Task Order is modified as follows: •Draft Deliverables 3 weeks from the authorization of the amendment. This schedule noted is dependent on shapefile being provided by Others at the same time as the amendment is authorized. We will do everything we can to expedite the schedule.

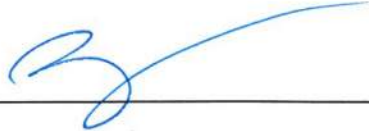
3. Task Order Summary (Reference only)

a.	Original Task Order amount:	\$54,900
b.	Net change for prior amendments:	\$8,000
c.	This amendment amount:	\$19,800
d.	Adjusted Task Order amount:	\$82,700

The foregoing Task Order Summary is for reference only and does not alter the terms of the Task Order.

Owner and Engineer hereby agree to modify the above-referenced Task Order as set forth in this Amendment. All provisions of the Agreement and Task Order not modified by this or previous Amendments remain in effect. The Effective Date of this Amendment is 6/12/2019.

OWNER:
By: _____
Print Name: Michelle Klose
Title: Director of Utility Operations
Date Signed: _____

ENGINEER:
By:  _____
Print Name: Jeff Hruby
Title: Business Development Director
Date Signed: 6/12/2019