



**BUSINESS OF THE CITY COUNCIL
BONDURANT, IOWA
AGENDA STATEMENT**

Item No. 09
For Meeting of 06/01/2020

ITEM TITLE: Resolution for contract work for Phase 2 Scope of Services for the Cities Stormwater Master Plan.

CONTACT PERSON: John Horton, Public Works Director

SUMMARY EXPLANATION:

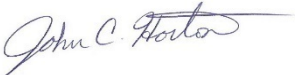
During the Phase 1 process of the Stormwater Master Planning effort it was determined that we needed to shift our focus into a Stormwater modeling effort to better understand how all of the sub areas in the Cities watershed interacted with one another. In doing so part of the Phase 1 planning effort was set aside to create capacity to do the modeling effort.

Since Phase 1 is now completed staff has requested a scope of services contract from EOR for Phase 2 Scope of Services to include the following.

1. Water Quality Improvement Plan
2. Stormwater Infrastructure Maintenance Plan & Staffing Analysis
3. Stormwater Policy Implementation
4. Stormwater Utility Rate Analysis

This scope will bring the Stormwater Master Planning effort full circle and establish a good foundation to build off moving into the future when it comes to providing the best stormwater management for the community.

Staff recommends approval of the Service Contract to EOR for Phase 2 Scope of Services for the Stormwater Master Plan in the amount of \$28,500.

<input checked="" type="checkbox"/> Resolution _____ Ordinance ____ Contract ____ Other (Specify)_____
Funding Source _____ budgeted engineering services - Stormwater
 APPROVED FOR SUBMITTAL _____ Public Works Director

RECOMMENDATION: Approve resolution on a roll call vote.

CITY OF BONDURANT
RESOLUTION NO. 200601-166

RESOLUTION APPROVING SCOPE OF SERVICE CONTRACT PROVIDED BY EMMONS & OLIVER RESOURCES INC.
FOR PHASE 2 OF THE STORMWATER MASTER PLAN IN THE AMOUNT OF \$28,500

WHEREAS, on March 30th, 2020 the City of Bondurant received the proposal for Phase 2 Scope of Service for the Cities Stormwater Master Plan; AND

WHEREAS, the City of Bondurant accepts the proposal of the work as follows:

EOR to provided to the following Scope of Services

1. Water Quality Improvement Plan
2. Stormwater Infrastructure Maintenance Plan & Staffing Analysis
3. Stormwater Policy Implementation
4. Stormwater Utility Rate Analysis

WHEREAS, the City Council approves the Contract for Phase 2 Scope of Services in the amount of \$28,500; AND

NOW, THEREFORE, BE IT RESOLVED, by the City Council of the City of Bondurant, Iowa, that the Contract for Phase 2 Scope of Services is hereby approved.

Passed this 1st day of June 2020,

By: _____
Curt Sullivan, Mayor

ATTEST: I, Shelby Hagan, City Clerk of Bondurant, hereby certify that at a meeting of the City Council held on the above date, among other proceedings the above was adopted.

IN WITNESS WHEREOF, I have hereunto set my hand the day and year above written.

Shelby Hagan, City Clerk

Council Action	Ayes	Nays	Abstain	Absent
Cox				
Peffer				
Enos				
McKenzie				
Elrod				

Project Name | Bondurant Stormwater Master Plan**Date** | 3/30/2020**To / Contact info** | John Horton**Cc / Contact info** |**From / Contact info** | Pat Conrad, Aaron Gwinnup**Regarding** | Phase 2 Scope of Services

Background

To date, EOR has completed Phase 1 of the Stormwater Master Plan. Preliminary findings of City's stormwater network assessment were presented to Council in October 2019. Since that time, potential solutions have been vetted for many of the problem areas throughout the City. The benefits in terms of flood reduction, as well as potential downstream impacts were assessed and detailed cost estimates were developed. A draft of the Stormwater Master Plan report, summarizing Phase 1 tasks has been provided to City staff for review.

During the early stages of the first phase of this project, EOR and City staff recognized the need to modify the scope of services to add the development of an H&H model (previously had been planned for Phase 2) to fully evaluate the City's complex stormwater network. A change order was approved by Council, and as a result, several Phase 1 tasks were shifted into Phase 2.

At this time, we are proposing the following scope of services for Phase 2 of the Stormwater Master Plan.

Task 1. Water Quality Improvement Plan

Water quality has become an increasingly important issue in Iowa. While agricultural runoff is the predominant source of surface water pollutants in Iowa, Cities do have a role in improving water quality. The hard surfaces (roads, parking lots, rooftops) within developed areas accumulate pollutants that become rapidly delivered to downstream waters when it rains. Whereas nitrogen is the primary pollutant of concern in agricultural runoff, in developed areas phosphorus and bacteria are of greater importance. A water quality improvement plan will be developed for the city that:

- Characterizes phosphorus and bacteria sources within the City
- Identifies potential water quality improvement practices for priority areas within the City: Lake Petocka drainage area, Meadow Brook Park corridor, Mud Creek/Hwy 65 site, Wolf Creek Pond drainage area, former waste water lagoon site
- Identifies retrofits opportunities within the existing stormwater management facilities in the City
- Develops strategies for reducing bacteria loading in the City
- Develops best management practices for City operations in step with MS4 permit requirements

Task 2. Maintenance Plan & Staffing Analysis

Based on the recommendations in the 20-year CIP and the evaluation of the City stormwater infrastructure completed in Phase 1, EOR will develop a maintenance plan for the City. Maintenance needs will be assessed for all existing and proposed stormwater infrastructure including; storm sewer network including pipes, inlets, and outfalls, ponds, detention and retention areas, overland flow areas (swales and shallow ditches), ditches and creeks, and green infrastructure practices.

A staffing level analysis will be conducted by the EOR project team. The analysis will consider existing staffing needs and the additional staffing needs arising from implementing the recommendations included in the Stormwater Master Plan.

Task 3. Stormwater Policy Implementation

The New Development stormwater framework recommended in the Stormwater Master Plan consists of multiple components:

- Updated erosion and sediment controls (ESC) implemented during land disturbances (construction)
- Low Impact Development (LID) focused design processes
- Development application submittal requirements
- Stormwater management (SWM) performance standards
- Administrative processes

Ideally, these components would not be implemented in isolation. Instead, the plan strongly advises the City to incorporate LID to holistically manage the entire development process. To do this, the City should update and/or adopt a new ordinances. The ordinances should comprehensively regulate both ESC and SWM, using LID principles and practices. With the City's flat topography and low permeability soils, it is important to slow down and store the water, which LID is designed to do, to prevent flooding.

The intent of Task 3 is to lead the City through the process to implement these policies and procedures. The process will primarily consist of a series of five workshops with City staff and council with key stakeholders representing the development community and residents. We will work with City staff to update ordinance language, develop procedural documents, and assist in developing guidance documents for developers and developer engineers. Task 3 will also include a compliance review of the City's MS4 permit.

Task 4. Stormwater Utility Rate Analysis

EOR will review the current stormwater surcharge the City has been collecting and compare it to rates being charged across the area. The Iowa Stormwater Education Partnership (ISWEP) has developed a database for the MS4 communities within Iowa. We will also determine if the current stormwater utility is structured in an equitable manner and if it will adequately meet the stormwater management needs identified in the CIP of the Master Plan. The following factors will be considered in developing the stormwater utility rate:

- Current and future costs of providing surface water management in accordance with established and anticipated standards and regulations
- Current and future costs of maintenance and operation of surface water collection system.
- Projected demands
- Funding of capital maintenance projects
- Property acquisition

Proposed Budget & Timeline

Task	Budget	Timeline
Task 1 – Water Quality Improvement Plan	\$10,500	April-May
Task 2 – Maintenance Plan & Staffing Analysis	\$6,500	May-June
Task 3 – Stormwater Policy Implementation	\$5,500	April – September
Task 4 – Stormwater Utility Rate Analysis	\$6,000	June-July
Total	\$28,500	