Dewberry

Dewberry Engineers Inc.
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[redacted] fax
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November 29th, 2022

Ms. Tina Garver, AICP
Community Development Director
City of Powder Springs
P.O. Box 46/4488 Pineview Drive
Powder Springs, GA 30127

RE: Powder Springs Park Improvement

Dear Ms. Garver:

Dewberry Engineers Inc. (Dewberry) is pleased to present this proposal to the City of Powder Springs (City) to provide professional engineering services to evaluate for No-Rise Conditions the proposed development in the Powder Springs Park located at the southwest corner of the Brownsville Rd and Norfolk Southern Railroad intersection in the City of Powder Springs and if the requirements are met to issue a No-Rise certification for the proposed development.

SCOPE/PROJECT UNDERSTANDING

The City has reached out to Dewberry to request us to perform a No-Rise Evaluation for the proposed development in the Powder Springs Park, to ensure compliance with the City's Floodplain Management ordinance. It is our understanding that this development includes the installation of a gazebo and expanding the existing parking in the park.
Dewberry proposed to:

1. Utilize the effective HEC-RAS model for Powder Springs Creek and develop:
    a. Corrected Effective Hydraulic model to reflect the pre-project conditions
        i. Dewberry will keep the effective hydrology data.
        ii. Dewberry will cut additional cross-sections along the project site:
            - Utilizing certified existing topographic data provided by the City for the project site.
            - Where the above topographic data is not available, Dewberry will utilize the 2015 Cobb County topography to model the cross-sections station-elevation data.
            - No modeling updates will be made beyond the project site
    b. Proposed Condition Hydraulic modeling
        i. Dewberry will keep the effective hydrology data
        ii. Dewberry will modify the cross-section data to reflect the proposed development
            - Utilizing the certified proposed conditions topographic data provided by the City to reflect the proposed development.
            - No modeling updates will be made beyond the project site
    c. Prepare comparison between the Corrected Effective and Proposed Condition model to ensure that the proposed development will not increases in the BFEs and

the 1% Future water surface elevations more than the allowable, as listed in Article 10 - Sec 10.16 (a). 1 of the City's Unified Development Code (UDO).

2. Utilize the City provided certified digital existing and proposed AutoCAD surfaces to ensure that the base flood and the 1% future conditions flood storage capacity are not reduced.
3. If the No-Rise conditions are met, Dewberry will prepare a report and issue a No-Rise Certification for the proposed design.
4. If the proposed design is not meeting the No-Rise Conditions, Dewberry can perform evaluation of an alternative design at additional cost.
5. As-Built No-Rise evaluation is recommended to ensure the development is completed per the proposed design. The cost for as-built evaluations is not included in this proposal.

ASSUMPTIONS

The above scope of work is made under the assumption that Dewberry will receive:

1. Certified Existing Conditions Plan
2. Certified Proposed Conditions Plan
3. Certified digital existing and proposed surfaces
4. Only one proposed design will be evaluated

DELIVERABLES

Deliverables include:

- HEC-RAS Model
  - Corrected Effective Condition Model
  - Proposed Conditions Model
- Technical Report
  - Proposed Conditions No-Rise Certification

BUDGET

Based on the scope of services outlined above the total estimated not-to-exceed cost is **$7,000.00**.

Thank you for allowing Dewberry the opportunity to provide professional engineering services for the City of Powder Springs. If you have any questions or would like to discuss further please feel free to contact me at [redacted] or via email at [redacted]. You may also contact Petia Doubrovska-Ilieva at [redacted] or via email at [redacted].

Regards,

Sam Fleming, PE
Dewberry

Petia Doubrovska-Ilieva, PE, CFM
Dewberry