



CRANSTON

ENGINEERS - PLANNERS - SURVEYORS

452 Ellis Street, Augusta, Georgia 30901
P.O. Box 2546, Augusta, Georgia 30903
706.722.1588
CranstonEngineering.com

November 19, 2022

Hameed Malik, Ph.D., P.E.
Director of Engineering
Augusta Engineering Department
452 Walker St. Suite 110
Augusta, GA 30901

Re: Ellis Street Drainage Improvements
Augusta-Richmond County, Georgia
Our File No. 2022-0539

Dear Dr. Malik:

In accordance with your request, we are pleased to offer the following proposal for engineering design services for the Ellis Street Drainage Improvements project in Augusta, Georgia. The approximate limits of the project area are shown on the attached exhibit. The following project description and scope, as we understand them, are based upon information provided by you during our recent discussion.

PROJECT DESCRIPTION:

The City of Augusta has received complaints relating to recurring flooding within properties located on Ellis Street between Eve Street and Metcalf Street. On August 15, 2022, Cranston visited the area and documented our observations of the existing conditions. This information was provided to you by email on August 16, 2022. Subsequently, Cranston completed an Engineering Study of the project area and documented our findings in an Engineering Report dated November 2, 2022. The report recommended infrastructure upgrades that will improve the collection and conveyance of runoff within the project area.

This proposal outlines the engineering services associated with the development of construction drawings for the recommended infrastructure improvements.

SCOPE OF WORK:

Work under this proposal involves the design of infrastructure improvements in the project area as shown in the attached exhibit. A topographic and utility survey is included in the scope of work.

Cranston will prepare construction drawings for roadway and drainage improvements in the project area. The proposed drainage improvements will be designed to the 25-year storm event. Calculations for the 2-100 year storm events will be completed and documented. We will submit final drawings to the City of Augusta along with a bid schedule and construction cost estimate. Specifications will be included in the drawings and will reference the City of Augusta, Georgia and Georgia Department of Transportation standards and specifications. Subject to your final review comments, we will furnish "issued for construction" drawings.

Drawings will be prepared in ink at an appropriate scale. Portions of the site plan may need to be enlarged and sectional drawings may be needed to show sufficient detail. The site plan sheets will be accomplished using computer assisted design and drafting (CADD) equipment, and these will be available in AutoCAD Civil 3D computer disc format, if desired, at no additional fee. In the event of difference between the CADD drawings and the original tracing, the hard copy tracing will govern.

We propose our services based on the following tasks:

Basic Services

- Task 1: Survey Services** - Perform utility location services and topographic/feature survey of the proposed improvement area as indicated on the attached Exhibit. The contour interval will be one foot and will be based upon the North American Vertical Datum of 1988, commonly called Mean Sea Level. The horizontal datum will be the Georgia State Plane Coordinate System, East Zone (North American Datum of 1983).
- Task 2: Final Engineering Design (100%) and Permitting** - Prepare (100%) Construction Drawings including Erosion & Sediment Control Plans (ESPC) with notes and details. Coordinate Augusta Engineering Department and Georgia Department of Transportation (GDOT) permit applications and review process.

At your request, we can assist with the development of easement maps, NPDES inspections and reporting, the bid process, and construction administration. An estimated fee is included in the additional services for the following:

Additional Services

- Task 3: Easement Maps** – Prepare recordable drawings illustrating easements required for construction or permanent maintenance. Easement maps will be signed by a registered land surveyor in the State of Georgia.
- Task 4: NPDES Monitoring and Inspections** – Complete routine weekly Erosion, Sedimentation and Pollution Control inspections and reporting for NPDES record keeping. Provide post-rainfall event Erosion, Sedimentation and Pollution Control inspections and reporting for NPDES record keeping. Turbidity sampling and reporting after qualifying rainfall events for NPDES record keeping.
- Task 5: Bidding Assistance** – Attend pre-bid meeting, respond to Requests for Information, and issue addenda as necessary.
- Task 6: Construction Administration** – Attend pre-construction meeting, contractor submittal reviews, attend bi-weekly meetings during site construction activities, periodic site observations (4 maximum), review applications for payment, and attend final inspection and punch list walkthrough. We estimate the construction phase will require 3 months, which is the duration of which our construction administration services are based.

ASSUMPTIONS:

1. A Land Disturbance Permit and GDOT Permit are the only permits necessary for this project.
2. Coordination with GDOT will be required for the work to be performed on the John C. Calhoun Expressway.
3. Augusta Engineering Department will pay any fees for plan review and/or permits to be obtained from the City or other agencies, as needed, or provided as a reimbursable fee.
4. Geotechnical borings and analysis will be provided by Augusta Engineering Department in order to provide subsurface conditions and a recommendation for new pavement sections at the proposed asphalt addition locations.

EXCLUSIONS:

1. Construction staking.
2. Construction materials or other testing services not included.
3. Improvements to onsite features outside the area as outlined on Exhibit 1.
4. The scope of work does not extend to designing such public utility services as electrical power distribution, telephone / cable, gas, or telecommunications.
5. Any services not expressly included in this proposal are excluded; however, any additional services may be provided on a time and material basis or as a separate agreement upon request.

FEE PROPOSAL:

We propose to provide the engineering and survey services based on the per task breakdown below. Additional services can be provided through a supplemental services proposal or on a time and material (T&M) basis at our standard hourly rates that are in effect at that time. A breakdown of these fees are as follows:

<u>Basic Services (Lump Sum)</u>	<u>Proposed Fee</u>
Task 1: Survey Services	\$9,280
Task 2: Final Engineering Design (100%)	<u>\$21,870</u>
Basic Services Total:	\$31,150
<u>Additional Services</u>	
Task 3: Easement Maps (\$750 / Easement Map). Three (3) assumed	\$2,250
Task 4: NPDES Monitoring & Inspections (\$700/Month @ 3 months)	\$2,100
Task 5: Bidding Assistance (Lump Sum)	\$3,420
Task 6: Construction Phase Services <i>(Time & Matl. estimate for 3 month duration)*</i>	\$12,000

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November 19th, 2022
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2022-0539
Ellis Street
Drainage Improvements

We expect to submit periodic invoices as the work progresses and to receive payment within thirty (30) days thereafter.

TIME OF COMPLETION:

We are prepared to begin work upon receipt of your approval of this proposal. The survey can commence within 14 days. We anticipate that final construction drawings will be completed within 4-weeks following completion of the survey.

We appreciate the opportunity to submit this proposal and trust that you find it satisfactory. We stand ready to proceed based on your written direction. Should you have any questions concerning this proposal, please do not hesitate to call.

Sincerely,

CRANSTON ENGINEERING GROUP, P.C.



Tom Dunaway, P.E., MBA

WTD/mko
enclosures

ACCEPTED:

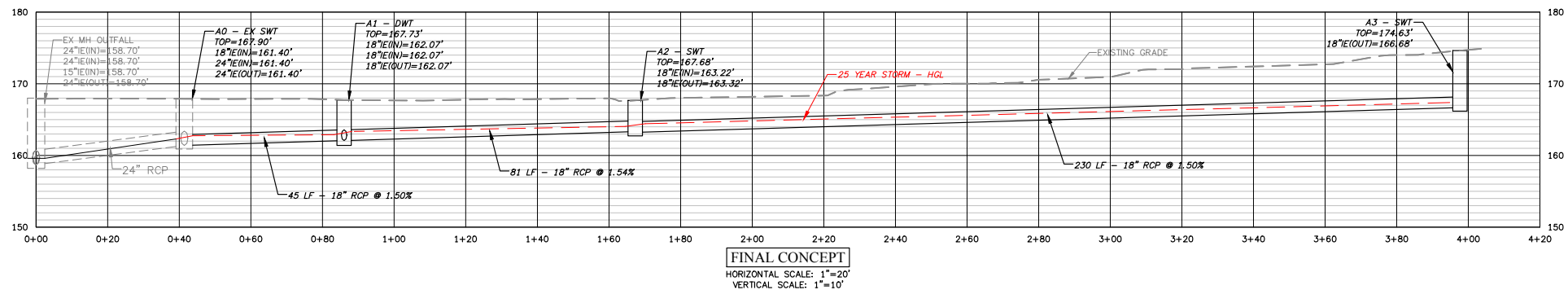
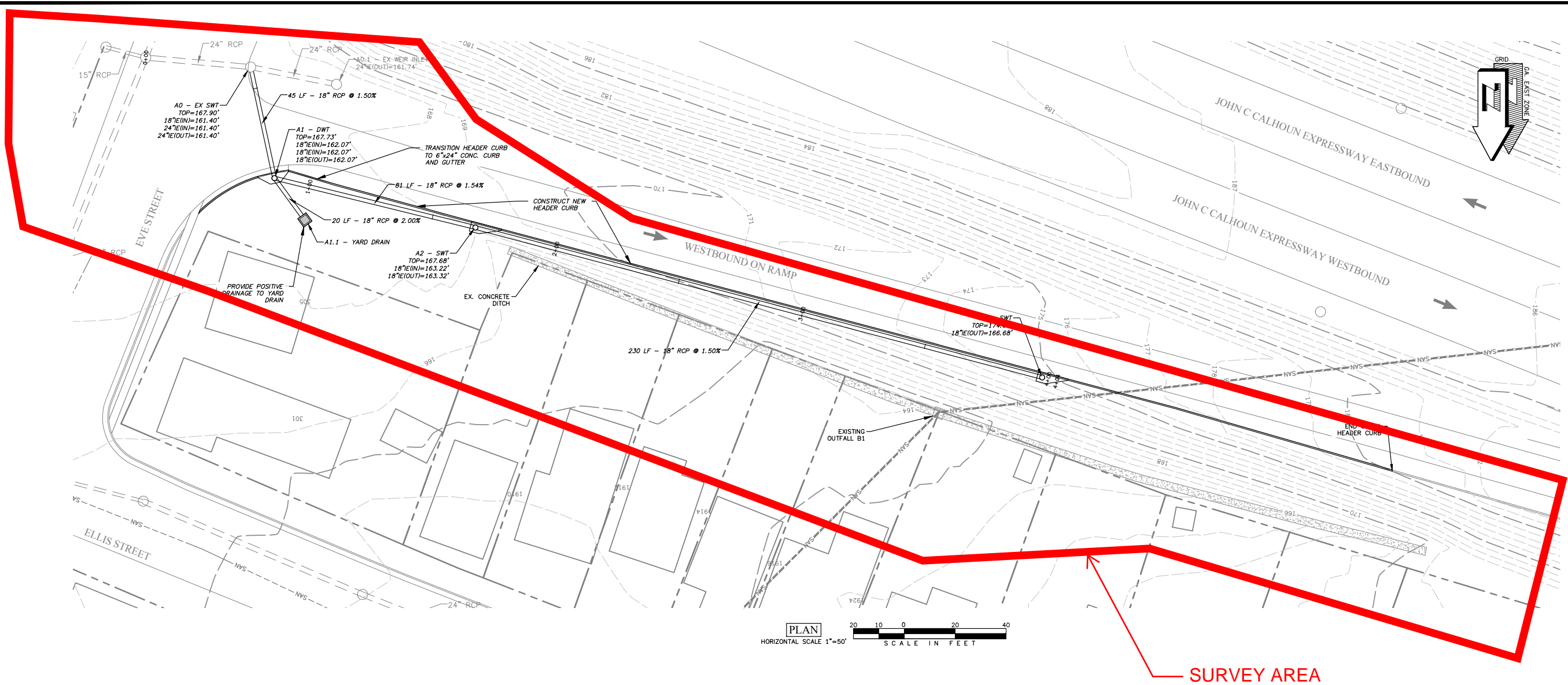
AUGUSTA ENGINEERING DEPARTMENT

BY: _____

TITLE: _____

DATE: _____

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CONCEPT PLAN

- CONSTRUCT NEW HEADER CURB, YARD DRAIN AND CATCH BASINS TO COLLECT & CONVEY SURFACE WATER RUNOFF FROM TO THE EXISTING STORM SEWER SYSTEM ON EVE STREET.
- THE PROPOSED IMPROVEMENTS REDUCE THE CONTRIBUTING AREA TO EXISTING OUTFALL B1 FROM 2.75 ACRES TO 2.07 ACRES. THE IMPERVIOUS AREA TRIBUTARY TO EXISTING OUTFALL B1 IS ALSO REDUCED FROM 0.79 ACRES TO 0.19 ACRES.



CRANSTON

ELLIS STREET DRAINAGE
IMPROVEMENTS

CONCEPT PLAN

DRAWN BY: MKO
CHECKED BY: MKO
APPROVED BY: WTD
DATE: 10/20/22
SCALE: 1" = 20'
JOB No. 2022-0539
DRAWING No.

C201