



TTL Inc.
2743-B Gunter Park Drive W.
Montgomery, AL 36109

September 20, 2021

Mr. Joey Nunnally, P.E.
Baldwin County Engineer

Attn: Seth Peterson, P.E.
Pre-Construction Manager

Baldwin County Commission
Office of County Engineer
Central Annex II (3rd & 4th Floors)
22070 Highway 59
Robertsdale, AL 36567

Subject: Fee Proposal for Extra Work for Construction Plans
Extend CR 20 from Hickory Street South to CR-65
Baldwin County

Dear Mr. Peterson:

Baldwin County has directed TTL to design a roundabout at the CR-65/CR-20 intersection and a traffic signal with appropriate turn lanes at the CR-20/South Hickory Street intersection. Additional work is needed to include these items into the final plan assembly. Attached is the scope and fee proposal to perform the additional work for survey (see Wattier attached letter), perform the geotechnical and environmental work and produce the roadway plans for the above referenced project.

The related scopes of work are attached.

Item	Description	Cost Estimate
1.	Extra Survey (Wattier)	\$9,800
2.	TTL Rdwy Design/Traffic Signal	\$120,000
3.	TTL Geotechnical and Material Report	\$1,500
4.	TTL Environmental Services	\$6,200
	TOTALS	\$137,500

Thank you for this consideration and if you have any questions let us know.

Sincerely,

Mack Taylor, P.E.
Vice President - Transportation Alabama

c: File



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Extend CR-20 from Hickory Street South to CR-65 Baldwin County, Alabama

Scope of Services

Surveying

TTL will provide the extra surveying services as specified in the Wattier Surveying proposal letter dated September 7, 2021.

TTL Roadway Design and Plan Production

TTL will incorporate the design of the roundabout at the intersection of CR-20/CR-65 and the traffic signal and required turn lanes at the intersection of CR-20/South Hickory Street into the roadway plans. The anticipated plan assembly sheets affected include:

- Title, Index to Sheets
- Geometric Layout
- Typical Sections
- Project Note Sheets
- Summary of Quantities
- Summary of Quantity Box Sheet
- Plan and Profile
- Roundabout Layout Sheets
- Paving Layout
- Signing and Striping
- Traffic Signal Plans
- Erosion and Sediment Control
- Drainage Sections and Details
- Utility Sheets
- Traffic Control
- Cross Sections and Earthwork Calculation Sheet

TTL Bridge Geotechnical, Materials Report and Soil Survey

TTL will incorporate the required roadway buildup for the roundabout at CR-20/CR-65 intersection and the turn lanes at CR-20/South Hickory Street intersection into the Materials Report.

TTL Environmental Services

TTL will perform the following environmental work as listed below for the extra area needed for designing the roundabout at CR-20/CR-65 and the extra area associated with adding the required turn lanes at CR-20/South Hickory Street:



Waters of the U.S. Delineation

TTL will conduct a delineation of jurisdictional waters of the U.S. (WOTUS) within the site according to methods found in the USACE Wetland Delineation Manual (1987) and the Regional Supplement to the Corps of Engineers Wetland Delineation Manual: Atlantic Gulf Coastal Plain v. 2.0 (dated November 2010). Jurisdictional streams will be identified using the North Carolina Division of Water Quality, Methodology for Identification of Intermittent and Perennial Streams and Their Origins, Version 4.11, dated September 1, 2010.

The delineation will include the following:

- Review of topographic maps, aerial images, U.S. Fish and Wildlife Service (USFWS) National Wetlands Inventory (NWI) Maps and Natural Resources Conservation Service (NRCS) Soil Survey Maps.
- Delineate the wetland and upland boundary and streams using flagging marked with “Wetland Delineation” or standard stream flagging.
- Prepare wetland and stream data forms.
- Map the boundaries of wetlands and the centerlines of streams using a Trimble Geo7x global positioning system (GPS) set to sub-meter accuracy.
- Observe drainage and connectivity to jurisdictional on-site and off-site wetlands, streams, or other waters of the U.S.

Prior to initiating fieldwork, TTL requests a georeferenced .dxf, .shp, or .kmz file of the property boundary or area of interest. Without this file TTL will not be able to accurately determine the extent of identified features within the project boundaries.

TTL also requires that the client secure access to the entire property to be reviewed. Through authorization of this proposal, TTL assumes that appropriate access has been obtained by Baldwin County. Please notify TTL in writing if there are any particular site access requirements (gate keys, check-in requirements, etc). Should TTL not be granted complete site access at one time, additional mobilizations may be required to complete the field activities.

Following the wetland and stream delineation, TTL will prepare a WOTUS Report (Report). The Report will include USACE Wetland Data Sheets, Stream Data Sheets, and a map of the jurisdictional features that can be used for USACE jurisdictional determination. Upon request, a .dxf or .shp file of the delineated features can be provided.

Jurisdictional Determination

TTL will not request a jurisdictional determination without first obtaining permission from the County. Upon approval, TTL will submit the Report along with the appropriate Jurisdictional Determination Form to the USACE and request a determination. The USACE may require a site visit to verify on-site aquatic features. TTL will coordinate with the USACE to schedule a site visit and accompany the USACE during the site visit. Modifications to the Report resulting from the USACE site visit will be incorporated into the revised report (if necessary) and resubmitted to the USACE for a final determination.



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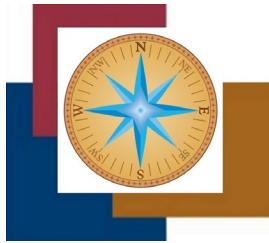
If the USACE is not engaged regarding a jurisdictional determination, TTL is neither responsible for the final determination of jurisdictional features within the review corridor, nor responsible for violations associated with unauthorized activities that may occur within areas that may be deemed jurisdictional by the USACE.

Threatened and Endangered Species Habitat Assessment

Concurrent with the WOTUS delineation field work, TTL will evaluate and document existing habitats within the review area with regard to the potential for protected species within the project area. Following the completion of field work, TTL will prepare and submit a letter to the USFWS requesting comment regarding the potential impact to threatened and/or endangered species. The letter will include a brief description of the project, a description of the current onsite environments, federally listed species for the project area, and select site photographs. TTL will respond to questions and comments the USFWS may have as needed. *Should the USFWS require additional assessment(s) of the property, TTL will submit a separate proposal for this service.*

Section 106 Coordination (Cultural & Historical Resources)

TTL will subcontract with TerraXplorations, Inc (TerraX) to complete a Phase I Cultural Resource Survey. The Phase I Cultural Resources Survey will include background research and fieldwork to evaluate the project site for potential for culturally sensitive artifacts. A report of findings will be prepared and submitted fully describing the conduct, results, and recommendations of the survey. The components of the study will comply with the standards set by the AHC. *Should the AHC or the USACE require additional assessment of the property, TTL will submit a separate proposal for this service.*



WATTIER SURVEYING, INC.

PROFESSIONAL LAND SURVEYORS

September 7, 2021

Mr. Joel Wampol, PE
TTL, Inc.
22 Inverness Center Parkway #140
Hoover, AL 35242

RE: CR-20 between CR 65 and Hickory Street South; Baldwin County
Additional Survey

Dear Joel

Thank you for the opportunity to provide a proposal for the above referenced project. We have reviewed the project information and propose the following scope of work and fee.

Scope of Work:

The limits of our original project survey will be expanded to include the additional roadway lengths and widths as shown on the 2 attached marked-up maps. A Right-of-Way survey of the additional roadway will be provided in accordance with the requirements of the original survey. A Topographic Survey of the additional roadway and specified widths will also be provided in accordance with the requirements of the original survey.

The additional survey data will be added to the original survey and provided in dgn format along with a dtm for inroads, and will be delivered within 15 working days of NTP

Fee: \$9,8000

Let me know if you have any questions.

Sincerely
WATTIER SURVEYING, INC.

Mark A. Wattier - PLS
President



Limits of
EXIST SURVEY
APPROX 430'
FROM CL

WIDEN SURVEY TO
50' FROM
EXIST ROW
EACH SIDE

SURVEY
LIMITS
300' FROM
CL ROAD

150' WIDE

300'

150' WIDE

WIDEN EXIST SURVEY
TO BE 50' FROM EXIST
ROW
EACH SIDE

END OF
EXIST SURVEY
APPROX 300'
FROM CL

EXTEND
SURVEY
500'
GET 50' FROM
ROW EACH
SIDE

18" HDP
INV(N)=57.12
INV(S)=57.21

105+00

CR-65

"ROAD WORK NEXT MILE"

BL CR-65

PRES ROW

STA 50+00.00 CR-20=
STA 102+00.00 CR-65

+15

IN PL 44"x27" RCAP
(REMOVE)

44"x27" RCAP
INV(N)=55.45
INV(S)=55.26

BEGIN WORK
STA 49+50.00

THE S.W. CORNER OF SECTION 6, T-
& THE N.W. CORNER OF SECTION 7,
BALDWIN COUNTY, ALABA
NAIL & DISK SET IN ASPHALT AT 1
OF A NAIL PREVIOUSLY FOUND AS
BOUNDARY SURVEY BY DEWBERRY
GEORGE D. GIBSON, III, DATED 10

WIDEN
SURVEY
IN CORNER
CLIP
A 11#16

