

March 17, 2015

The Honorable Joseph Palacios
Commissioner, Hidalgo County Pct. No. 4
1051 N. Doolittle
Edinburg, Texas 78539

RE: 10th Street Extension Project
Limits: from SH 107 to FM 1925
Contract No. C-12-126-10-16
Supplemental No. 1 to Work Authorization No. 2

Dear Commissioner Palacios:

As previously discussed and as per the correspondence sent to your office on March 4, 2015 (letter attached), upon receiving the Traffic Signal Warrant Analysis approved by TxDOT, it was determined that an additional traffic signal and two (2) flashing beacons would be needed for this project as listed below:

- *Traffic Signal at Schunior Avenue*
- *Flashing Beacon at Russell Road*
- *Flashing Beacon at Rogers Road*


Therefore, attached for your review and consideration is Supplemental No. 1 to Work Authorization No. 2 in the amount of \$29,978.60 to add the design for these three additional intersections for the 10th Street Extension project. We are enclosing the supplemental work authorization for your review and approval.

Attached you will find the following:

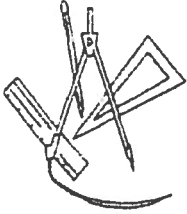
- 1.) Two signed originals of Supplemental No. 1 to Work Authorization No. 2 with the following attachments:
 - Exhibit B "Services to be provided by the Engineer"
 - Exhibit D-1 "Estimated Project Fee Schedule and Man-hour Breakdown"

Should you have any questions regarding this submittal, do not hesitate to call me at (956) 565-9813.

Sincerely,
L&G ENGINEERING


Jacinto Garza, P.E.
CEO/President

Attachments



L&G Consulting Engineers, Inc.

March 4, 2015

The Honorable Joseph Palacios
Hidalgo County Precinct No. 4
1051 N. Doolittle Road
Edinburg, Texas 78541

RE: Additional Traffic Signal Design Work for 10th Street Extension Project
Limits: from SH 107 to FM 1925
Work Authorization #2

Dear Commissioner Palacios:

We are currently under contract with Hidalgo County for design services for the 10th Street Extension project. Within Work Authorization #2 is our scope to perform PS&E services with a part of those PS&E services being Signal Design. When we originally scoped this project, we knew that we would have to adjust the existing signal at SH 107 and were fairly certain that we would need a signal at FM 1925. Therefore we only subcontracted Ergonomic Transportation Solutions, Inc (ETSI) to design two traffic signals within our contract intending to keep the proposed engineering costs to a minimum.

Since this project is "off-system", we also had to perform traffic counts and provide TxDOT a Traffic Signal Warrant Analysis. The purpose of this analysis was to determine if the existing and projected traffic on this corridor warranted new traffic signals at certain intersections along the route. ETSI has submitted their final report which has been approved by TxDOT (see attached). The report's findings are that in addition to the two traffic signals that we originally had planned for are warranted, there is one more traffic signal needed as well as two flashing beacons:

- *Traffic Signal at Schunior Ave*
- *Flashing Beacon at Russell Road*
- *Flashing Beacon at Rogers Road*

Therefore, we are requesting a supplemental to WA #2, in the amount of \$29,978.60 (see proposed fee schedule attached), to add the design for these three additional intersections. Should you have any questions, please feel free to give me a call at 956-565-9813.

Sincerely,

Robert Macheska, P.E., CFM
Project Manager

cc: Jacinto Garza, P.E., L&G Engineering

EXHIBIT “F”
Supplemental Agreement Form

THE STATE OF TEXAS §
 §
COUNTY OF HIDALGO §

**SUPPLEMENTAL AGREEMENT NO. 1
TO WORK AUTHORIZATION NO. 2
TO AGREEMENT FOR PROFESSIONAL SERVICES
C-12-126-10-16**

This **SUPPLEMENTAL AGREEMENT** is made pursuant to the terms and conditions of Article 8 of the Agreement made by and between **HIDALGO COUNTY**, hereinafter called the “**Owner**”, and **L&G ENGINEERING**, professional engineers of Mercedes, Texas, hereinafter called the “**Engineer**”.

WITNESSETH

WHEREAS, the **Owner** and the **Engineer** executed the Main Contract Agreement on the 16th day of October 2012, concerning professional engineering services for the “**10th Street Expansion**” project from SH 107 to FM 1925 for the preparation of PS&E hereinafter referred to as the “**Project**”; and,

WHEREAS, it has become necessary to amend “*Exhibit B – Services to be provided by the Engineer*” of Work Authorization No. 2, Part 1 of the Agreement – Scope of Work as identified below:

- (1) Upon completion of the Traffic Signal Warrant Analysis that was approved by the Texas Department of Transportation, it was determined that an additional traffic signal and two flashing beacons are needed at the location listed below:
 - a. Traffic Signal at Schunior Avenue
 - b. Flashing Beacon at Russell Road
 - c. Flashing Beacon at Rogers Road; and,

WHEREAS, it has become necessary to amend “*Exhibit D-1 – Project Fee Schedule and Estimated Manhour Breakdown*” of Work Authorization No. 2, Part 2 of the Agreement – Estimated Cost, to increase the original Work Authorization amount of **\$1,187,220.00** to **\$1,217,198.60**; therefore the amount of **Supplemental No. 1 is \$29,978.60.**

A. AGREEMENT

NOW THEREFORE, premises considered, the **Owner** and the **Engineer** agree that said **Agreement** is amended as follows:

- I. Sections of the Agreement, EXHIBIT "B" – SERVICES TO BE PROVIDED BY THE ENGINEER and EXHIBIT "D-1" – PROJECT FEE SCHEDULE AND ESTIMATED MANHOUR BREAKDOWN, are revised to reflect the above listed modifications of this Supplemental.

All other provisions are unchanged and remain in full force and effect.

IN WITNESS WHEREOF, the Engineer and the Owner have caused this Supplemental Agreement to the Agreement for Professional Services to be executed as of the _____ day of _____, 2015.

**THE ENGINEER:
ENGINEER**

BY: 
Jacinto Garza, P.E., President

**THE OWNER:
HIDALGO COUNTY**

BY: _____
Ramon Garcia, County Judge

LIST OF EXHIBITS:

EXHIBIT A – "Services to be provided by County" – OMITTED

EXHIBIT B – "Services to be provided by Engineer"

EXHIBIT C – "Work Schedule" – OMITTED

EXHIBIT D-1 – "Project Fee Schedule and Estimated Man-hour Breakdown"

EXHIBIT "B"
SCOPE OF SERVICES TO BE PROVIDED BY THE ENGINEER

SECTION 9 - SIGNING, MARKINGS AND SIGNALIZATION
(Function Code 162)

Services
Provided By:
ENGINEER COUNTY

Suppl. No. 1 to WA No. 2 - Services to be provided by ETSI

- | <u>YES</u> | <u>NO</u> | |
|------------|-----------|---|
| | | 1. Signing and Markings Layout |
| | | a. Requirements (Separate Layout) |
| | | (1) Roadway layout |
| | | (2) Center line with station numbering |
| | | (3) ROW lines |
| | | (4) Culverts and other structures that present a hazard to traffic |
| | | (5) Location of utilities, if not shown on plan and profile |
| | | (6) Existing signs to remain, to be removed, to be relocated |
| | | (7) Proposed signs (illustrated and numbered) |
| | | (8) Existing overhead sign bridges to remain, to be revised, removed or relocated |
| | | (9) Proposed overhead sign bridges indicating location by plan layout (electrical details need not be shown on this layout) |
| | | (10) Proposed markings (illustrated and quantified) which include pavement markings, object markings and delineation |
| | | (12) Quantities of existing pavement markings to be removed |
| | | (13) Proposed delineators and object markers |
| | | b. For projects involving freeway to freeway or other types of directional interchanges, projects including left-hand ramps or connections, the following information must be provided: |
| | | (1) The location of interchanges, main lanes, grade separations, frontage roads and ramps |
| | | (2) complete explanation of the sequence and methods of stage construction, where applicable, which would include the initial and ultimate proposed treatment of crossovers and ramps |
| | | (3) The number of lanes in each section of proposed highway and the location of changes in numbers of lanes |
| | | (4) The projected traffic volumes as provided by the STATE (20 year traffic projection, unless otherwise determined by the District Engineer) |
| | | (5) Tentative ROW limits |
| | | (6) Direction of traffic flow on all roadways |
| | | (7) Main lane, ramp, frontage road, and necessary cross road profiles at proposed interchanges or grade separations |
| <u>YES</u> | <u>NO</u> | 2. Summary of Small Signs Tabulation |
| <u>YES</u> | <u>NO</u> | 3. Summary of Large Signs Tabulation including all Guide Signs |
| <u>YES</u> | <u>NO</u> | 4. Sign Detail Sheets |
| | | a. All signs except route markers |
| | | b. Design details for large guide signs |
| | | c. Dimensions of letters, shields, borders, corner radii etc. |
| | | d. Designation of shields attached to guide signs |
| | | e. Designation of arrow used on exit direction signs |

EXHIBIT "B"
SCOPE OF SERVICES TO BE PROVIDED BY THE ENGINEER

Services
 Provided By:
ENGINEER COUNTY

- | | |
|--|--|
| <p><u>N/A</u> <u>N/A</u></p> <p><u>N/A</u> <u>N/A</u></p> <p><u>N/A</u> <u>N/A</u></p> <p><u>N/A</u> <u>N/A</u></p> <p><u>N/A</u> <u>N/A</u></p> <p><u>N/A</u> <u>N/A</u></p> <p><u>N/A</u> <u>N/A</u></p> <p><u>YES</u> <u>NO</u></p> | <p>5. Traffic Signals</p> <p>a. Development of Justification (Warrant) Data</p> <p>(1) Location Map
 Relationship of proposed installation to other traffic signals, highways, business areas and traffic generators</p> <p>(2) Photographs as appropriate</p> <p>(3) Accident data as appropriate</p> <p>(4) Vehicle volumes (provided by TxDOT)</p> <p>(a) Existing</p> <p>(b) Estimated</p> <p>(c) Projected</p> <p>(d) Pedestrian</p> <p>(5) Traffic Survey - Count Analysis</p> <p>(6) Recommendation based on above data</p> <p>b. Layout</p> <p>(1) Title Sheet (when applicable)</p> <p>(a) Describe the location</p> <p>(b) Type of installation</p> <p>(c) Area map with project limits for each location</p> <p>(d) Index of sheets</p> <p>(e) Space for official signatures</p> <p>(2) Estimate and quantity sheet (when applicable)</p> <p>(a) List of all bid items</p> <p>(b) Bid item quantities</p> <p>(c) Specification item number</p> <p>(d) Paid item description and unit of measure</p> <p>(3) Basis of estimate sheet (list of materials)</p> <p>(4) General notes and specification data sheet</p> <p>(5) Condition diagram</p> <p>(a) Highway and intersection design features</p> <p>(b) Roadside development</p> <p>(c) Traffic control including illumination</p> <p>(6) Plan sheet(s)</p> <p>(a) Existing traffic control that will remain (signs and markings)</p> <p>(b) Existing utilities</p> <p>(c) Proposed highway improvements</p> <p>(d) Proposed installation</p> <p>(e) Proposed additional traffic controls</p> <p>(f) When applicable, proposed conduit for Railroad interconnect with standard details for runs under tracks.</p> <p>(g) Proposed illumination attached to signal poles.</p> <p>(7) Notes for plan layout</p> <p>(8) Elevation sheet(s) (span wire design)</p> <p>(9) Phase sequence diagram(s)</p> <p>(a) Signal locations</p> <p>(b) Signal indications</p> <p>(c) Phase diagram</p> <p>(d) Signal sequence table</p> <p>(e) Flashing operation (normal and emergency)</p> <p>(f) Preemption operation (when applicable)</p> <p>(g) Interval timing, cycle length and offset</p> |
|--|--|

EXHIBIT "B"
 SCOPE OF SERVICES TO BE PROVIDED BY THE ENGINEER

Services
 Provided By:
ENGINEER COUNTY

- | | |
|--|---|
| <u>YES</u> <u>NO</u> | 5. Traffic Signals <i>(continued)</i>
b. Layout <i>(continued)</i>

(10) Construction detail sheets(s)
(a) Poles (TxDOT standard sheets)
(b) Detectors
(c) Pull Box and conduit layout
(d) Controller Foundation standard sheet
(11) Marking details (when applicable)
(12) Barricade and warning sign standard sheet and any special details for work zone traffic control for special conditions
(13) Aerial or underground interconnect details (when applicable)

c. General Requirements
(1) Contact local utility company
(a) Confirm power source
(b) Discuss route of aerial or underground interconnect cable (when applicable)
(c) Adjustment of overhead utility lines
(2) Prepare governing specifications and special provisions list
(3) Prepare project estimate

d. Summary of Quantities |
| <u>YES</u> <u>NO</u>
<u>YES</u> <u>NO</u>
<u>YES</u> <u>NO</u>
<u>YES</u> <u>NO</u>
<u>YES</u> <u>NO</u> | |
| <u>YES</u> <u>NO</u> | |

EXHIBIT D-1
PROJECT FEE SCHEDULE AND
ESTIMATED MANHOUR BREAKDOWN

10TH STREET EXTENSION PROJECT

	MANHOURS										Sub-Contract Amounts / ROW COST	TOTAL LINE ITEM COST
	Senior Project Manager	Senior Engineer	Project Engineer	Design Engineer	EIT	Senior Engineer Tech	Engineer Tech	CADD Operator	Admin / Clerical	TOTAL HOURS		
CONTRACT RATE	205.89	171.57	122.96	108.66	74.35	71.49	68.63	60.05	51.47			
SUPPL. NO. 1 TO WA NO. 2												
PHASE II - PS&E												
4 L&G Signal Design	10		21						7	38		\$ 5,001.00
5 Signal Design by ETSI (See Exh D-1 page 2 of 2)										0	\$ 24,977.60	\$ -
SUB-TOTAL	10	0	21	0	0	0	0	0	7	38	\$ 24,977.60	\$ 5,001.00

Subtotal Manhour Fee with Sub-Consultant Costs:	\$ 29,978.60
---	--------------

Total Project Fee:	\$ 29,978.60
---------------------------	---------------------

