



GUZMAN & MUÑOZ
ENGINEERING AND SURVEYING, INC.
Texas Registered Engineering Firm F-8017

2020 E. EXPRESSWAY 83
MERCEDDES, TX 78570

PHONE: (956) 565-4637
FAX: (956) 565-4636

August 18, 2011

Commissioner Joel Quintanilla
County of Hidalgo, Precinct # 1
1902 Joe Stephens Ave.
Weslaco, Texas 78596

RE: Mile 17 North – From, FM 3071 (Mile 4 West), west 2,720 Feet
And From, FM 1015 (Mile 3 West), east 400 Feet
Paving & Drainage Study and Drainage Improvements
Engineering Services Proposal

Commissioner Quintanilla:

It is our pleasure to submit to Hidalgo County Precinct # 1, this proposal for Professional Engineering Services in relation to the above mentioned project and your letter dated; June 15, 2011 authorizing the additional work required for Mile 17 North Road resulting in this Work Authorization proposal. Our preliminary research along with our meeting with you and your staff concerning Mile 17 North Road and the adjoining areas, has given us an understanding of the required improvements for this project. Based on this information the following are our fees for engineering services:

Topography Surveying for Study & Design	\$12,436.84
Intersections Traffic Study	\$23,000.00
Engineering Design	\$29,150.11
Construction Phase Services/Daily Inspection	\$13,250.05

We are prepared to proceed with the intersections traffic study, design and construction plans for the improvements of Mile 17 North. The plans will meet all criteria requirements set forth by the County. We will be performing services as follows:

- Topographic Survey
- Intersections Traffic Study
- Plans
- Specifications
- Construction Cost Estimates
- Construction Oversight
- Close Out Documentation
- As-Built Plans

This is our best and final offer. Should you have any questions or concerns please feel free to contact our office at (956) 565-4637.

Respectfully Submitted,

Jose L. Muñoz, P.E., S.I.T.
Principal

Hidalgo County Precinct #1

Mile 17 North

From FM 3071 (Mile 4 West), west 2,720 Feet and

From FM 1015 (Mile 3 West), east 400 Feet.

August 2011



GUZMAN & MUÑOZ
ENGINEERING AND SURVEYING, INC.

2020 E. Expressway 83
Mercedes, Texas 78570
(956) 565-4637

HIDALGO COUNTY

Professional Engineering Services

Contract # C-11-111-04-19

Work Authorization Form

WORK AUTHORIZATION NO. 004

THIS WORK AUTHORIZATION is made pursuant to the terms and conditions of Section I.A. of the Agreement made by and between HIDALGO COUNTY, action herein by and through the Commissioner's Court, hereinafter called the "Owner," and, Guzman & Munoz Engineering and Surveying Inc., professional engineers of Mercedes, Texas, hereinafter called "Engineer".

PART 1. SCOPE OF WORK

The purpose of this Work Authorization is for the Engineer to provide Professional Engineering, Improvements to Mile 17 North Road, from FM 3071(Mile 4 West), west 2,720 Feet and From FM 1015 (Mile 3 West), east 400 Feet.

The scope of services to be provided by the Owner is identified in *EXHIBIT "A" - Scope of Services to be Provided by the Owner* attached hereto.

The scope of services to be provided by the Engineer is identified in *EXHIBIT "B" - Scope of Services to be Provided by the Engineer* attached hereto.

PART 2. ESTIMATED COST

The estimated cost for services under this Work Authorization is \$ 77,837.00. This amount is based upon the costs outlined in the Estimated Cost Proposal attached hereto as EXHIBIT "D".

PART 3. PAYMENT

Compensation and payment to the Engineer for the services established under this Work Authorization shall be made in accordance with **Article 6 thur 6.6 and all applicable sections of the Agreement.**

PART 4. FUNDING

This Work Authorization No.004 shall be funded through funding source:

Account No.1-1342-431-00-121-085-0-731

Requisition Number 202968 (MUST BE INCLUDED AFTER CC APPROVAL)

PART 5. PERIOD OF SERVICE

This Work Authorization shall become effective on the date of final acceptance of the parties hereto, and terminate on August 29, 2012 as indicated in the "Exhibit C-Preliminary Work Schedule".

PART 6. RESPONSIBILITIES AND OBLIGATIONS

This Authorization does not waive the parties' responsibilities and obligations provided under the **Agreement.**

PART 7. ACKNOWLEDGEMENT AND CONFIRMATION

Acknowledgement and confirmation by Hidalgo County Precinct #1, Commissioner as to content and detail of this Work Authorization No.004.

~~HIDALGO COUNTY PRECINCT # 1 JOEL QUINTANILLA.~~

BY: _____

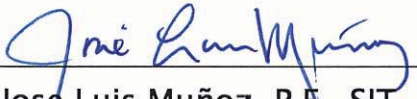
Joel Quintanilla, Commissioner

PART 8. ACCEPTANCE AND APPROVAL

This Work Authorization is hereby accepted, approved by Hidalgo County Commissioners' Court on 09/27/11 as indicated below and effective as of ^{27th} day of September, 2011.

THE ENGINEER:

**Guzman & Muñoz Engineering
& Surveying Inc.**



By: José Luis Muñoz, P.E., SIT
President

THE OWNER:

HIDALGO COUNTY

By: Ramon Garcia, County Judge

ATTEST:

By: Arturo Guajardo, Jr., County Clerk

LIST OF ATTACHMENTS

- ATTACHMENT "A" - Service to be Provided by the Owner
- ATTACHMENT "B" - Services to be Provided by the Engineer
- ATTACHMENT "C" - Work Schedule
- ATTACHMENT "D" - Cost Proposal

EXHIBIT "A"

**Scope of Services
Provided by Owner**

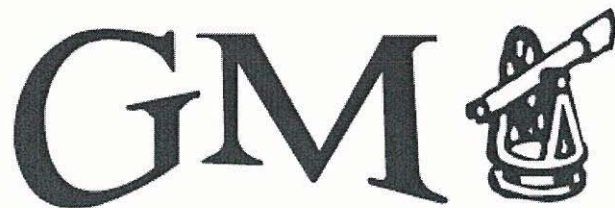


EXHIBIT “A”

HIDALGO COUNTY PRECINCT 1

**Paving and Drainage Improvements
Mile 17 North Road, from FM 3071 (Mile 4 West), west 2,720 Feet
And
From FM 1015 (Mile 3 West), east 400 Feet.**

Scope of Services

1. The following provides an outline of the services to be provided by OWNER in the development of Project.
2. The OWNER will provide to the ENGINEER the following:
3. Authorization to the ENGINEER to begin work in accordance with Section 3 of this Agreement.
4. Payment for work performed by the ENGINEER and accepted by the OWNER in accordance with Section 6 of the Agreement.
5. Assistance to the ENGINEER, as necessary, to obtain the required data and information from local, regional, State and Federal agencies that the ENGINEER cannot easily obtain as required.
6. Provide any available relevant data the OWNER may have on file concerning the project.
7. Provide timely review and decisions in response to the ENGINEER’S request for information and/or required submittals and deliverable, in order for the ENGINEER to maintain the agreed-upon work schedule prepared in accordance with Attachment “C” of this Agreement.
8. Attend and participate in progress meeting as required and as coordinated and conducted by the ENGINEER.
9. Attend the Preliminary Concept Conference coordinated and conducted by the ENGINEER and more particularly identified in Attachment “B” of the Agreement.
10. Assist the ENGINEER as required in the coordination with the USAGE and the Federal Emergency Management Agency (FEMA) and any other coordinating agency or entity.
11. Review and approve the Project design criteria.
12. Review and approve change orders if required and prepared by the ENGINEER.

EXHIBIT "B"

**Scope of Services
Provided by Engineer**

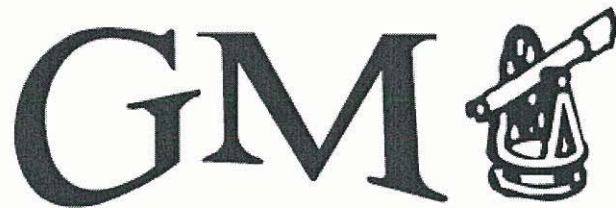


EXHIBIT “B”

HIDALGO COUNTY PRECINCT 1

Professional Engineering, Surveying and Construction Management Services
for
Mile 17 North Road Paving and Drainage Improvements
from FM 3071(Mile 4 West), west 2,720 Feet
And From FM 1015 (Mile 3 West), east 400 Feet.

Scope of Services

This project consists of providing all necessary bid pack documentation, as well as a Paving & Drainage construction plans, specifications and surveying for Design and easement acquisition for Mile 17 North Road and adjoining areas for Paving & Drainage Improvements.

The following is the work to be done for this project:

1. Paving and Drainage Improvements
 - a. Conduct a topographic survey for the project area.
 - b. TxDOT Intersection Traffic Study
 - c. Generate plans and profiles for the proposed project.
 - d. Provide easement survey and metes and bounds description.
 - e. Provide site visits to monitor construction progress.
 - f. Review pay request and make recommendations
 - g. Administer the project closeout on behalf of the County including testing observations, documentation, etc.
 - h. Generate As-Built plans for the County upon project completion.
 - i. Daily construction oversight and compliance.

Please find attached as Exhibit “D” a preliminary Statement of Probable Cost in order to ensure that the discussed scope is in agreement with Hidalgo County Precinct #1.

EXHIBIT "C"

Work Schedule

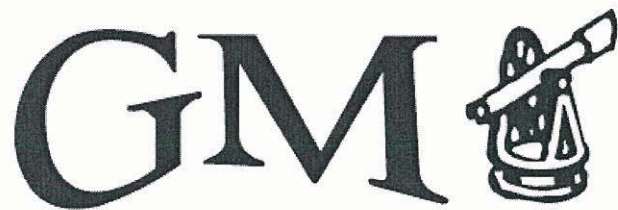


EXHIBIT "D"

Estimated Cost Proposal

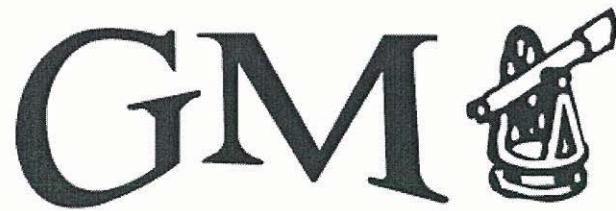


EXHIBIT "D"
Estimated Cost Proposal

ENGINEERS OPINION OF PROBABLE CONSTRUCTION COST

HIDALGO COUNTY PCT. 1 -MILE 17 NORTH IMPROVEMENTS PROJECT

From: Mile 4 West, west 2,720 feet and From: Mile 3 West, east 400 feet

ITEM NO.	DESCRIPTION	EST. QTY	UNIT	UNIT PRICE	TOTAL PRICE
Section 1 - Sta. 10+50 to Sta. 37+69 Reconstruction (2 lanes, 2- 11' , 2719 feet length)					
1	Reworking Base Courses - Type B (TxDOT Item 251)	8,157	S.Y.	\$2.50	\$20,392.50
2	6" New Caliche Type E, Grade 4 (as needed)	2,294	Tons	\$14.00	\$32,116.00
3	12" Lime Treated Sub-Grade	8,157	S.Y.	\$4.50	\$36,706.50
4	Lime-stabilized Sub-Grade (4% by Weight)	132	Ton	\$140.00	\$ 18,480.00
5	Prime Coat (MC-30) (0.2 gal/S.Y.)	1,632	Gal.	\$4.00	\$6,528.00
6	Hot Mix Asphalt Concrete Pavement (Type D) (2" Comp. Thick)	8,157	S.Y.	\$11.00	\$89,727.00
SUB-TOTAL AMOUNT					\$203,950.00

Section 2 - Sta. 92+74 to Sta. 96+55 Reconstruction (Transition 3 Lanes to 2 Lanes, 381 feet length)					
1	Reworking Base Courses - Type B (TxDOT Item 251)	1,391	S.Y.	\$2.50	\$3,477.50
2	6" New Caliche Type E, Grade 4 (as needed)	391	Tons	\$14.00	\$5,474.00
3	12" Lime Treated Sub-Grade	1,527	S.Y.	\$4.50	\$6,871.50
4	Lime-stabilized Sub-Grade (4% by Weight)	26	Ton	\$140.00	\$ 3,640.00
5	Prime Coat (MC-30) (0.2 gal/S.Y.)	279	Gal.	\$4.00	\$1,116.00
6	Hot Mix Asphalt Concrete Pavement (Type D) (2" Comp. Thick)	1,391	S.Y.	\$11.00	\$15,301.00
8	4" Wide Refl. Pav. Mrk - Type II - (TxDOT Item 666)	510	L.F.	\$1.50	\$765.00
9	Raised Pav. Mirk Type II-A-A (TxDOT Item 672)	45	EA.	\$7.00	\$315.00
SUB-TOTAL AMOUNT					\$36,960.00
Estimated Construction Cost					\$240,910.00
Contingency					\$24,091.00
Total Probable Engineers Estimated Construction Cost					\$265,001.00

EXHIBIT "D"
Estimated Cost Proposal

9/26/2011

Total Probable Engineers Estimated Construction Cost				\$265,001.00
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Engineering, Surveying and Special Services

a. Topography Surveying for Design Fee	3109.21	L.F.	\$4.00 / L.F.	\$12,436.84
b. Basic Engineering Design Services Fee	at	11%		\$29,150.11
c. Const. Phase Services / Daily Inspection Fee	at	5%		\$13,250.05
d. TxDOT Traffic Intersection Study (Special Service)	Lump Sum			\$23,000.00

Total Engineers Services Fee **\$77,837.00**

**EXHIBIT D
MANHOUR FEES BY TASKS**

ENGINEERING & SURVEYING FEE ESTIMATE
BASIC SERVICES

WORK AUTHORIZATION No. 004 - Mile 17 North Road from, FM 3071 (Mile 4 West), west 2,720 Feet and From FM 1015 (Mile 3 West), east 400 Feet

GIMES TASK	DESCRIPTION OF WORK TASK	PRINCIPAL HOURS	PROJECT ENGINEER HOURS	PROJECT MANAGER HOURS	EST HOURS	TECH / CADD HOURS	CLERICAL HOURS	SURVEYOR HOURS	PERSON SURVEY CREW	INSPECTOR HOURS	TOTAL HOURS	TOTAL COST PER TASK
1. PRELIMINARY ENGINEERING PLANS & SPECIFICATIONS APPROVED BY LOCALITY PHASE:												
1.1	PRELIMINARY PROJECT KICK-OFF MEETING	1	2	2		2	1	2			10	\$1,165.00
1.2	OBTAIN EXISTING PLANS AND REPORTS			1	1	2	1	2			7	\$705.00
1.3	REVIEW INFORMATION, PERFORM TOPOGRAPHIC SURVEYING FOR ENGINEERING DESIGN, SCOPE FOR GEOTECHNICAL			4	2	6		4	20		36	\$4,380.00
1.4	PREPARE PRELIMINARY PLANS AND SPECIFICATIONS		1	4	8	24	1				38	\$3,685.00
1.5	PREPARE COST ESTIMATES			1	2	6	2				11	\$970.00
1.6	SUBMIT PLANS & SPECIFICATIONS TO OWNER FOR REVIEW			1	2	1	2	1			7	\$640.00
1.7	ADDRESS REVIEW COMMENTS FROM OWNER	1	2	4	4	8	1,4278				20.4278	\$2,164.25
	TOTAL PRELIMINARY PHASE	2	5	17	19	49	8,4278	9	20	0	129.4278	
	HOURLY RATE	\$180.00	\$120.00	\$140.00	\$100.00	\$90.00	\$45.00	\$120.00	\$130.00	\$70.00		
	SUB-TOTAL PHASE 1	\$360.00	\$600.00	\$2,380.00	\$1,900.00	\$4,410.00	\$379.25	\$1,080.00	\$2,600.00	\$0.00		\$13,709.25
2. PLANS & SPECIFICATIONS APPROVED BY REGULATORY AGENCIES PHASE:												
2.1	PREPARE FINAL PLANS	2	8	12	16	32	8	4			82	\$6,320.00
2.2	CONDUCT QUALITY ASSURANCE AND CONTROL	1	1	1	2	4	3	1			13	\$1,255.00
2.3	PREPARE FINAL PROJECT SPECIFICATIONS		2	8	16	24	12			2	64	\$5,800.00
2.4	PRESENT FINAL PLANS AND SPECIFICATIONS FOR REVIEW	1	2	4	4	8	4				23	\$2,280.00
2.5	REVISE FINAL PLANS AFTER REVIEW BY REGULATORY AGENCIES		1	4	8	16	8				37	\$3,280.00
2.6	PREPARE MATERIALS SCHEDULES FOR OWNER			2	6	8	2,5222				18.5222	\$1,713.50
2.7	PREPARE FINAL COST ESTIMATE	1	2	4	8	12	4				31	\$3,040.00
2.8	COORDINATE WITH GOVERNMENTAL AND OTHERS REQUIRING APPROVAL AND PREPARE PERMITS FOR CONSTRUCTION		2	2	4	8	2				18	\$1,730.00
	TOTAL DESIGN PHASE	5	18	37	64	112	43,5222	5	0	2	286.5222	
	HOURLY RATE	\$180.00	\$120.00	\$140.00	\$100.00	\$90.00	\$45.00	\$120.00	\$130.00	\$70.00		
	SUB-TOTAL PHASE 2	\$900.00	\$2,160.00	\$5,180.00	\$6,400.00	\$10,080.00	\$1,958.50	\$600.00	\$0.00	\$140.00		\$27,418.50
3. COMPLETION OF BID ADVERTISEMENT, CONTRACT AWARD AND NOTICE TO PROCEED PHASE												
3.1	PRE-CONSTRUCTION CONFERENCE AND ASSISTANCE		1	2	2		1	1			7	\$765.00
3.2	CONDUCT PERIODIC INSPECTIONS	1	1	8	2					40	52	\$4,420.00
3.3	ASSIST WITH CONFLICTS AND RFI REQUESTS			2	2	3	1	1		2	11	\$1,055.00
3.4	REVIEW SHOP DRAWINGS		1	2	2	2	1,4566			2	10.4566	\$985.55
3.5	CONDUCT FINAL INSPECTION		1	2						2	5	\$540.00
3.6	PREPARE PUNCH LIST			1							1	\$140.00
3.7	PREPARE AS-BUILT PLANS			1		2					3	\$320.00
	TOTAL CONSTRUCTION PHASE	1	4	18	8	7	3,4566	2	0	46	89.4566	
	HOURLY RATE	\$180.00	\$120.00	\$140.00	\$100.00	\$90.00	\$45.00	\$120.00	\$130.00	\$70.00		
	SUB-TOTAL PHASE 3	\$180.00	\$480.00	\$2,520.00	\$800.00	\$630.00	\$155.55	\$240.00	\$0.00	\$3,220.00		\$8,225.55

Requisition

Req # 00202968

PO #
Date: 09/20/11

Bill To: x
x

Vendor : 202754
GUZMAN & MUNOZ ENGINEERING & SURVEYII
2020 E. EXPRESSWAY 83
MERCEDDES TX 78570
FAX (956)565-4636

Ship To: HIDALGO CO. PCT 1
1902 Joe Stephens Ave
WESLACO TX 78596

Contact: PR/CELLUM
956-968-8733

Contract No: ~~C-11-111-014-19~~ C-11-111-04-19

Special Instructions:

RM169

QUANTITY	UOM	DESCRIPTION	UNIT PRICE	AMOUNT
1.00	EACH	DO NOT DUPLICATE ORDER WORK AUTHORIZATION NO. 004 PROFESSIONAL ENGINEERING SERVICES FOR PAVING AND DRAINAGE IMPROVEMENT TO MILE 17 NORTH ROAD FROM FM 3071 (MIL 4 WEST) AND FM 1015 (MILE 3 W)	77,837.00	77,837.00
		<u>Account No</u>	<u>Encumbrance</u>	
		1-1342-431-00-121-085-0-731	77,837.00	
			Freight	.00
			Total	77,837.00
		REPORT ROAD HAZARDS 1-866-HCR-SAFE OR 1-866-427-7233		

Authorized By: _____