

HIDALGO COUNTY
Professional Engineering Services
Contract # C-16-049-02-16
Work Authorization Form

WORK AUTHORIZATION NO. 1

THIS WORK AUTHORIZATION is made pursuant to the terms and conditions of Article 1 of the Agreement made by and between **HIDALGO COUNTY**, action herein by and through the **Commissioner's Court**, hereinafter called the "**Owner**," and, **L&G Consulting Engineers, Inc. d/b/a L&G Engineering**, 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 *Engineering Services required for the preparation for the Environmental Assessment, Public Involvement, Schematic Design and Hydrologic Map for the Mile 5 from Taylor Road to FM 2220 (Ware Road).*

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 **\$ 671,870.00**. This amount is based upon the costs outlined in the Estimated **Cost Proposal** attached hereto as **EXHIBIT "D-1" – Estimated Man-hour Breakdown**.

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** of the Agreement.

PART 4. FUNDING

This Work Authorization No. 1 shall be funded through funding source:

Account No. 6-1347-431-00-124-169-0-721

Requisition Number _____ **(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 upon completion of scopes of the work authorization, as identified on **EXHIBIT "C" – 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 No. 4, Commissioner Joseph Palacios as to the content and detail of this Work Authorization No. 1.

HIDALGO COUNTY PRECINCT NO. 4

BY: Joseph Palacios
Hon. Joseph Palacios, Commissioner

PART 8. ACCEPTANCE AND APPROVAL

This Work Authorization is hereby accepted, approved by Hidalgo County Commissioners' Court on 02/16/16 as indicated below.

THE ENGINEER:
L&G Consulting Engineers, Inc.
d/b/a **L&G ENGINEERNIG**

By: Jacinto Garza
Jacinto Garza, P.E.
President

THE OWNER:
HIDALGO COUNTY

By: Ramon Garcia
Hon. Ramon Garcia,
County Judge

ATTEST:

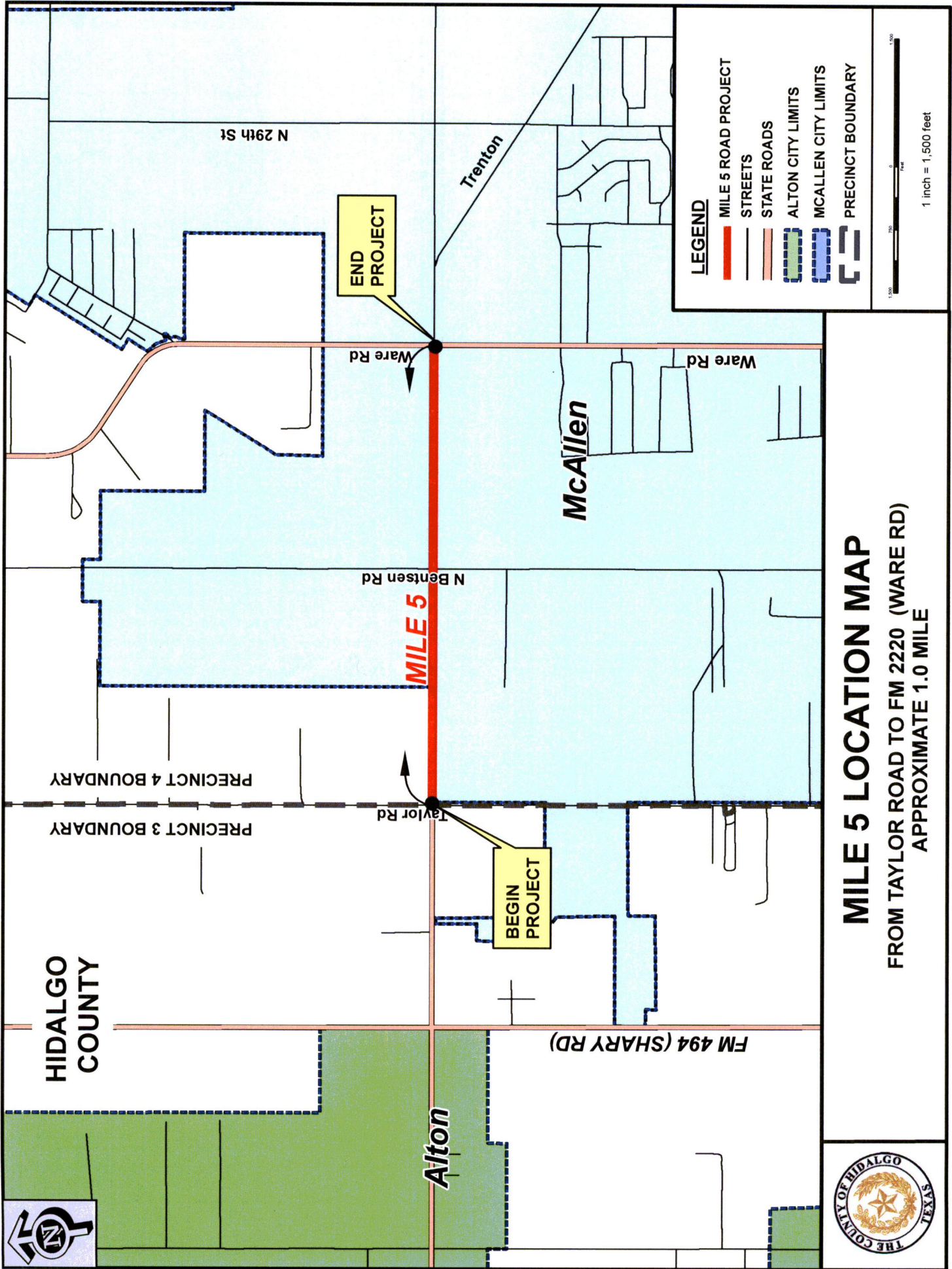
By: Arturo Guajardo, Jr.
Hon. Arturo Guajardo, Jr.
County Clerk



APPROVED BY
COMMISSIONERS' COURT
ON: 2/16/16

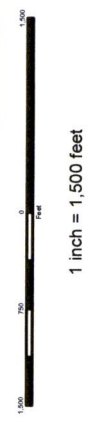
LIST OF EXHIBITS

- Location Map
- Exhibit A – Services to be provided by Owner
- Exhibit B – Services to be provided by Engineer
- Exhibit C – Work Schedule
- Exhibit D-1 – Estimated Man-hour Breakdown



LEGEND

- █ MILE 5 ROAD PROJECT
- STREETS
- STATE ROADS
- ALTON CITY LIMITS
- MCALEN CITY LIMITS
- PRECINCT BOUNDARY



MILE 5 LOCATION MAP

FROM TAYLOR ROAD TO FM 2220 (WARE RD)
APPROXIMATE 1.0 MILE



EXHIBIT "A"
Services to be provided by the County

1. The County will issue work authorization to initiate all required services and designate the authorized representative of the coordination of each work authorization.
2. The County will provide copies of all subdivision plats of record and/or in the subdivision process.
3. The County will provide the Engineer with on-going guidance, timely reviews, and decisions necessary to complete services required by the work authorization in order to permit the Engineer to maintain an agreed upon project schedule.
4. The County will process all acceptable requests for payment in a timely manner.

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

SECTION 1-PROJECT DESCRIPTION

The services designated herein as "Services provided by the ENGINEER" shall include the performance of all engineering services for the following described facility:

COUNTY/CITY: HIDALGO COUNTY

CONTROL: CSJ:

PROJECT/DESCRIPTION: EA, PUBLIC INVOLVMENT, SCHEMATIC & HYDROLOGIC MAP

LENGTH: 1.0 MILES

HIGHWAY: MILE 5

LIMITS: FROM TAYLOR RD TO FM 2220 (WARE RD)

PROJECT CLASSIFICATION

(Place an "X" in only one Project Classification)

- Surface Treatment
- Overlay
- Rehabilitation Existing Road (Scarify & Reshape)
- Convert Non-Freeway to Freeway
- Widen Freeway
- Widen Non-Freeway
- New Location Toll Freeway
- New Location Non-Freeway
- Interchange (New or Reconstruct)
- Bridge Widening or Rehabilitation
- Bridge Replacement
- Upgrade to Standards - Freeway
- Upgrade to Standards - Non-Freeway
- Miscellaneous Studies (Use Function Code 110 for All Tasks)

ENGINEER shall mean L&G Engineering.

STATE shall mean Texas Department of Transportation.

COUNTY shall mean the Hidalgo County.

CITY shall mean the City of _____.

EXHIBIT “B”
SCOPE OF SERVICES TO BE PROVIDED BY THE ENGINEER

SECTION 2 – FEASIBILITY STUDIES
(Function Code 102)

Services Provided By:		
<u>ENGINEER</u>	<u>CITY/COUNTY</u>	
<u>YES</u>	<u>NO</u>	Preliminary Design Values <i>The Engineer will work with the Owner to establish basic design concepts, project controls and general scope of Projects.</i>
<u>YES</u>	<u>NO</u>	Preliminary Route Locations on Uncontrolled Mapping <i>The Engineer will evaluate various alternatives (route locations, alignment shifts, geometry) for the Project.</i>
<u>YES</u>	<u>NO</u>	Uncontrolled Mapping (w/Contours & GIS Info) <i>The Engineer will investigate the existing routes and coordinate with the Owner on establishing the best-fit alignments and mapping proposed geometry for Projects. Preliminary Location Exhibit will be developed.</i>
<u>NO</u>	<u>NO</u>	Preliminary Traffic Evaluations & Trends <i>The Engineer will investigate existing traffic models and trends for the proposed Projects and adjacent roadways tying into the proposed Projects.</i>
<u>YES</u>	<u>NO</u>	Preliminary Hydrologic Map <i>The Engineer will develop a Hydrologic Map for the Projects. Hydrologic Maps will be based on LIDAR and GIS information.</i>
<u>YES</u>	<u>NO</u>	Preliminary ROW Requirements <i>The Engineer will research and identify affected property owners on the Projects utilizing the latest appraisal district file information from Hidalgo County Appraisal District and information from Carson Maps.</i>
<u>YES</u>	<u>NO</u>	Preliminary Cost Estimates <i>The Engineer will calculate preliminary construction cost estimates for the location and geometry of the Projects.</i>
<u>YES</u>	<u>NO</u>	Preliminary Environmental Analysis (for fatal flaws) <i>The Engineer will perform Preliminary Environmental Constraint Mapping to determine if any fatal flaws exist along the proposed alignment.</i>
<u>YES</u>	<u>NO</u>	Project Fact Sheet with Est. Local Cost vs. Total Project Cost <i>The Engineer will produce a Project Fact Sheet providing summaries of all pertinent items in this scope of services (as required) and providing estimated local costs vs. total project costs for the Projects.</i>
<u>YES</u>	<u>NO</u>	Meetings, Coordination & Support for Project Development <i>The Engineer shall provide coordination services and shall assist in meetings and workshops with TxDOT, Hidalgo County, Hidalgo County Drainage District No. 1 and Hidalgo County Irrigation Districts, and all other affected parties. The Engineer shall serve as representative for the Owner in coordination items. The Engineer shall coordinate with the Owner's staff on all Project related items.</i>

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

SECTION 3 - ROUTE AND DESIGN STUDIES

(Function Code 110)

Services
Provided By:
ENGINEER CITY/COUNTY

<u>YES</u>	<u>NO</u>	1. Route Location Studies
<u>N/A</u>	<u>N/A</u>	2. Level of Service Analysis
<u>YES</u>	<u>NO</u>	3. Traffic Evaluations and Projections
<u>YES</u>	<u>NO</u>	4. Develop Roadway Design Criteria
<u>YES</u>	<u>NO</u>	5. Preliminary Cost Estimates
<u>YES</u>	<u>NO</u>	6. Design Schematic (See Section 7, page 7-1 for schematic layout requirements)
<u>YES</u>	<u>NO</u>	7. Preliminary Right-of-Way Requirements
<u>YES</u>	<u>NO</u>	8. Design Concept Conference
		9. Soil Core Hole Drilling
<u>N/A</u>	<u>N/A</u>	a. Pavement (See Section 7, pages 7-2 thru 7-3 for requirements)
<u>N/A</u>	<u>N/A</u>	b. Retaining Walls (See Section 10, page 10-1 for requirements)
<u>N/A</u>	<u>N/A</u>	c. Miscellaneous Structures (See Section 10, page 10-3 for requirements)
<u>N/A</u>	<u>N/A</u>	d. Bridges (See Section 11, page 11-2 thru 11-3 for requirements)

EXHIBIT “B”
SCOPE OF SERVICES TO BE PROVIDED BY THE ENGINEER

SECTION 4 - SOCIAL, ECONOMIC AND ENVIRONMENTAL STUDIES
AND PUBLIC INVOLVEMENT

(Function Code 120)

Services
 Provided By:
ENGINEER CITY/COUNTY

		1. Environmental Reports
		All Environmental Reports shall be in accordance with 43 Texas Administrative Code (TAC) 2.40-2.51, Code of Federal Regulations, Title 23, Part 771 and Highway Design Operations and Procedures Manual, Part II-B.
		a. Environmental Assessments
<u>N/A</u>	<u>N/A</u>	(1) An Environmental Assessment shall be prepared, anticipating a Categorical Exclusion.
<u>YES</u>	<u>NO</u>	(2) An Environmental Assessment shall be prepared in accordance with 23 USC 327 and the 2014 TxDOT-FHWA Memorandum of Understanding, anticipating a Finding of No Significant Impact.
<u>N/A</u>	<u>N/A</u>	(3) An Environmental Assessment shall be prepared, anticipating the need for a Draft Environmental Impact Statement.
		b. Environmental Impact Statement
<u>N/A</u>	<u>N/A</u>	(1) A Draft Environmental Impact Statement shall be prepared. After appropriate interagency and public reviews within time limits prescribed by the Code of Federal Regulations, Title 23, Part 771 and 43 Texas Administrative Code 2.40-2.51, a Final Environmental Impact Statement shall be prepared.
<u>N/A</u>	<u>N/A</u>	(2) A Section 4(f) Statement (Department of Transportation Act) shall be provided by the ENGINEER. The format and content of the statement is found in FHWA Technical Advisory T6640.8A.
		2. Public Involvement
		All public involvement procedures shall be in accordance with 43 Texas Administrative Code (TAC) 2.40-2.51, Code of Federal Regulations Title 23, Part 771 and Highway Design Operations and Procedures Manual, Part II-B.
<u>YES</u>	<u>NO</u>	a. A public involvement meeting(s) and public hearing shall be scheduled, coordinated and conducted.
<u>YES</u>	<u>NO</u>	b. Technical assistance for one public meeting and one public hearing, preparation of, and maintenance of contact lists, minutes of meeting(s), exhibit preparation, and other tasks outlined by the COUNTY, shall be provided.
<u>YES</u>	<u>NO</u>	c. A Notice of Availability (NOA) shall be published by the COUNTY upon approval of the environmental decision.
		3. Technical Reports
		All technical reports shall be prepared in accordance with TxDOT’s environmental rules and guidelines.
<u>YES</u>	<u>NO</u>	a. Air Quality Analysis An air quality analysis shall be prepared in accordance with the STATE’S Air Quality Guidelines. The air quality analysis shall be provided as a Technical Report and a summary of the air quality results included in the administratively complete document for the project.
<u>YES</u>	<u>NO</u>	b. Biological Technical Report A biological form and technical report shall be prepared in accordance with the STATE’S Biological Guidelines. The report will include water resources, and threatened and endangered species.
		c. Cultural Resources Historical and archeological studies shall be completed in accordance with the STATE’S guidelines.

EXHIBIT “B”

SCOPE OF SERVICES TO BE PROVIDED BY THE ENGINEER

Services Provided By:		
<u>ENGINEER</u>	<u>CITY/COUNTY</u>	
<u>YES</u>	<u>NO</u>	
		(1) Historic Structure Studies A records search, project coordination request, and reconnaissance survey shall be performed, and documentation prepared regarding identification efforts, National Register eligibility and potential impacts to historic properties in accordance with the state’s historic structure requirements.
<u>YES</u>	<u>NO</u>	(2) Archeological Studies File searches, project coordination request, an archeological reconnaissance, and an archeological survey shall be conducted to determine if known archeological sites are present or have been designated State Archeological Landmarks; and to identify the need (if any) to perform additional archeological investigations.
<u>YES</u>	<u>NO</u>	d. Community Impact Analysis A community impact analysis shall be prepared in accordance with the STATE’S Community Impact Guidelines.
<u>YES</u>	<u>NO</u>	e. Hazardous Materials The consultant shall perform an Initial Site Assessment (ISA) for hazardous materials impact in accordance with the American Society for Testing and Materials (ASTM) 1528.93 (Transaction Screen Process) and a Hazardous Materials Technical Report, as needed.
<u>YES</u>	<u>NO</u>	f. Indirect and Cumulative Impacts Analysis An indirect and cumulative impacts analysis shall be prepared in accordance with the STATE’s guidelines.
<u>YES</u>	<u>NO</u>	g. Noise Analysis A noise analysis shall be prepared, including predicted noise levels and the consideration and evaluation of noise mitigation, in accordance with the STATE’S Noise Guidelines. The noise analysis shall be provided as a Technical Report and a summary of the noise analysis results shall be included in the administratively complete document.
<u>YES</u>	<u>NO</u>	4. Environmental Scoping The ENGINEER shall initiate the environmental scoping process with TxDOT. An environmental scoping document and risk assessment will be completed in coordination with TxDOT.
<u>YES</u>	<u>NO</u>	5. General Guidelines for Preparation of Environmental Documents <ol style="list-style-type: none"> a. All technical reports will be submitted electronically to TxDOT through their FTP site. b. The draft administratively complete document will be submitted to TxDOT electronically through their FTP site. c. The administratively complete document will be prepared in accordance with the content and format of FHWA Technical Advisory T6640.8A and the TxDOT Administrative Code 43 TAC §2.44. d. The administratively complete document will be submitted to TxDOT electronically through their FTP site. e. Upon completion and approval of the administratively and technically complete document, the Engineer will provide one (1) hard copy to the Client. All copies to TxDOT will be digital. f. Exhibits in the environmental document shall be color copies and text shall be black and white.

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

SECTION 7 - ROADWAY DESIGN CONTROLS
(Function Code 160)

Services
Provided By:
ENGINEER COUNTY

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| <p><u>YES</u> <u>N/A</u></p> <p><u>YES</u> <u>N/A</u></p> | <p>1. Geometric Design</p> <p>a. Horizontal and Vertical Alignment (Preliminary based on office surveys)</p> <p>b. Schematic Layout</p> <p>(1) The location of interchanges, main lanes, grade separations, frontage roads and ramps.</p> <p>(2) Develop vertical and horizontal alignment of main lanes, ramps and cross roads at proposed interchanges or grade separations. Frontage road alignment data need not be shown on the schematic; however, it should be developed in sufficient detail to determine ROW needs. The degree of horizontal curves and vertical curve data, including "K" values, shall also be shown for ease of checking.</p> <p>(3) For freeways, show the location and text of the proposed main lane guide signs. Lane lines and/or arrows indicating the number of lanes shall also be shown.</p> <p>(4) A complete explanation of the sequence and methods of stage construction, if proposed, including the initial and ultimate proposed treatment of crossovers and ramps.</p> <p>(5) The tentative ROW limits.</p> <p>(a) Provide a roadway Design System (RDS) or (GEOPAK) computer tape of the preliminary earthwork to verify ROW requirements.</p> <p>(b) Provide a graphics file containing the approved schematic.</p> <p>(6) The geometric (pavement cross slopes, lane and shoulder widths, slope rates for fills and cuts) of the typical sections of proposed highway main lanes, ramps, frontage roads, and cross roads.</p> <p>(7) The current and projected traffic volumes as provided by the TxDOT (20 year traffic projection, unless otherwise determined by the District Engineer).</p> <p>(8) The control of access lines if Interstate or designated under House Bill 179.</p> <p>(9) Direction of traffic flow on all roadways.</p> <p>(10) Location and width of median openings for highway without access control.</p> <p>(11) The geometric of speed change (acceleration, deceleration, climbing) lanes.</p> |
| <p><u>YES</u> <u>N/A</u></p> | <p>2. General Guidelines for Project Development</p> <p>a. Prior to preparing detailed plans for a proposed project, a preliminary schematic layout shall be prepared which indicates the general geometric features and location requirements peculiar to the project. An uncontrolled aerial mosaic will be provided for this use. Four copies of the schematic layout shall be submitted through the district to the Design Division for approval and subsequent coordination with the Federal Highway Administration (FHWA) where applicable. The layout shall be submitted for two-lane arterial highway projects on new locations and for all multi-lane highway projects. No geometric design is to be performed until the COUNTY has given the engineer written approval of the preliminary schematic layout.</p> <p>b. All geometric design shall be in conformance with the State's Design Division, Operations and Procedures Manual, except where variances are permitted in writing by the STATE.</p> <p>c. The schematic layout shall include basic information which is necessary for the proper review and evaluation including the items listed above in the checklist for schematic layout.</p> <p>d. Handling of traffic during construction shall be a consideration in the development of preliminary designs.</p> |

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

Services
 Provided By:
ENGINEER COUNTY

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| <u>YES</u> | <u>N/A</u> | 2. General Guidelines for Project Development (<i>continued</i>) <ul style="list-style-type: none"> e. Upon approval of the schematic layout by Design Division (FHWA on Federal-aid projects), it shall be the basis for an exhibit at any required public hearing prior to final development of the project. If there are any changes to the schematic after the Design Division and FHWA approval and before the public hearing, four copies of the revised schematic, as displayed at the hearing, shall be submitted either prior to or accompanying the public hearing data. If there are no changes in the schematic as displayed at the hearing, only photographs of the schematic and other displays shall be submitted with the public hearing data. f. For all freeway construction projects, these schematics shall show the location and text of the proposed main lane guide signs. A schematic layout shall be submitted through the district to the Traffic Operations Division, Traffic Safety Section for approval and subsequent coordination with the FHWA. All signing shall be in conformance with the Texas MUTCD. g. On complex projects, informal contact through the district with the Design Division and FHWA personnel is encouraged with regard to development of preliminary design prior to official schematic submission. h. The engineer shall furnish a project tape that is compatible with the STATE's computer system, a project listing, and a cross section plot showing the original design sections containing the earthwork input and original cross sections for the project. Accuracy of the earthwork design is of utmost importance since it is the basis for contractor payments and construction staking. |
| <u>N/A</u> | <u>N/A</u> | 3. Exhibit for Airway/Highway Clearance Permits |
| <u>NO</u> | <u>N/A</u> | 4. Grading Design <ul style="list-style-type: none"> a. Refine the horizontal and vertical alignment of main lanes, frontage roads, ramps, cross roads and direct connectors based upon the approved schematic layout. Determine vertical clearances at grade separations and overpasses, taking into account the appropriate super elevation rate. b. Typical Sections c. Design Cross Sections d. Determine Cut and Fill Quantities e. Slope Stability Analysis f. Embankment Foundation Stability Analysis g. Embankment Settlement Analysis |
| <u>NO</u> | <u>N/A</u> | 5. Pavement Design <ul style="list-style-type: none"> a. Prior to initiating detailed plan preparations for a project, a preliminary investigation shall be made to determine the approximate section and pavement type to be used for the pavement structure. The Flexible Pavement Design Manual for flexible pavement, "Appendix F" of the Design Division, Operations and Procedures Manual, and the current AASHTO Guide for the Design of Pavement Structures, may be used for this purpose. b. The typical section shall also reflect proposed geometric including pavement cross slopes, lane and shoulder widths, and slope rates whenever this data have not been previously shown on a schematic submission. c. Embankment and Subgrade <ul style="list-style-type: none"> (1) Soil Core Holes (Show cost estimate with Function Code 110) <ul style="list-style-type: none"> (a) Along center line (b) Along center line of each roadway The location and minimum number of soil core holes required for this project are as follows: (To be determined when schematic is being completed) |
| <u>N/A</u> | <u>N/A</u> | |
| <u>N/A</u> | <u>N/A</u> | |

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

Services
Provided By:
ENGINEER COUNTY

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| <p><u>NO</u></p> <p><u>NO</u></p> <p><u>NO</u></p> <p><u>NO</u></p> <p><u>NO</u></p> <p><u>NO</u></p> <p><u>NO</u></p> <p><u>NO</u></p> | <p><u>N/A</u></p> <p><u>N/A</u></p> <p><u>N/A</u></p> <p><u>N/A</u></p> <p><u>N/A</u></p> <p><u>N/A</u></p> <p><u>N/A</u></p> <p><u>N/A</u></p> | <p>5. Pavement Design (<i>continued</i>)</p> <p>c. Embankment and Subgrade (<i>continued</i>)</p> <p style="padding-left: 20px;">(2) Identify, interpret and summarize geologic features that affect engineering design (PI, Sulfate content, % of lime)</p> <p>d. Traffic Data for Pavement Design by STATE</p> <p>e. Basic Design Criteria</p> <p>f. Life Cycle Cost Analysis(es)</p> <p>g. Cost Data</p> <p>h. Pavement Material Properties</p> <p>i. Rehabilitation Investigations</p> <p style="padding-left: 20px;">(1) Core Hole Survey (Show cost estimate with Function Code 110)</p> <p style="padding-left: 40px;">(a) Determine type and depth of existing material, pavement, etc. The Engineer will determine whether to salvage ACP and FLEXBASE as well as their properties and provide this information to TxDOT.</p> |
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EXHIBIT “B”
SCOPE OF SERVICES TO BE PROVIDED BY THE ENGINEER

SECTION 8 - DRAINAGE
(Function Code 161)

Services
Provided By:
ENGINEER COUNTY

All hydraulic design shall be in accordance with the TxDOT’s Hydraulic Manual, except where variances are permitted in writing by the COUNTY.

<u>YES</u>	<u>NO</u>	1. Hydrologic Studies, Discharges
<u>NO</u>	<u>N/A</u>	a. Hydrologic map showing drainage areas, contours and drainage Q’s.
<u>NO</u>	<u>N/A</u>	b. Drainage area maps showing existing conditions and proposed improvements.
		c. Hydrologic data/discharge determination
		2. Hydraulic Drainage Study and Documentation
<u>NO</u>	<u>N/A</u>	a. Hydraulic computations
		(1) Storm water detention available within the ROW (linear ft. along side drain ditch).
<u>NO</u>	<u>N/A</u>	(2) Storm water detention required outside the ROW (as per HCDD#1)
<u>NO</u>	<u>N/A</u>	(3) Culverts
<u>NO</u>	<u>N/A</u>	(4) Bridge waterways
<u>NO</u>	<u>N/A</u>	(5) Channels
<u>NO</u>	<u>N/A</u>	(6) Storm sewers/inlets
<u>NO</u>	<u>N/A</u>	(7) Pump stations
<u>NO</u>	<u>N/A</u>	(8) Storm Water Management facilities
<u>NO</u>	<u>N/A</u>	(9) Other
		(a) Irrigation Canals/Siphons
<u>NO</u>	<u>N/A</u>	b. Hydraulic report(s)
<u>NO</u>	<u>N/A</u>	c. Federal Emergency Management Agency (FEMA) floodway requirements
<u>NO</u>	<u>N/A</u>	d. Determine impact of proposed drainage plan on the following receiving stream(s)
		(1) Hidalgo County Drainage District Outfalls
		(2) All Irrigation District Outfalls impacted
		3. Layout, Structural Design and Detailing of Drainage Features
		a. Culverts
<u>NO</u>	<u>N/A</u>	(1) New culverts
<u>NO</u>	<u>N/A</u>	(2) Culvert widening and/or lengthening
<u>NO</u>	<u>N/A</u>	(3) Culvert replacements
		b. Storm sewers
<u>NO</u>	<u>N/A</u>	(1) New storm sewers
<u>NO</u>	<u>N/A</u>	(2) Modify existing storm sewers
<u>NO</u>	<u>N/A</u>	(3) Inlets
<u>NO</u>	<u>N/A</u>	(4) Manholes
<u>NO</u>	<u>N/A</u>	(5) Trunk lines
<u>NO</u>	<u>N/A</u>	c. Pump stations
<u>NO</u>	<u>N/A</u>	d. Subsurface drainage at retaining walls
<u>NO</u>	<u>N/A</u>	e. Outfall channel(s) within the ROW
<u>NO</u>	<u>N/A</u>	f. Outfall channel(s) outside the ROW
<u>NO</u>	<u>N/A</u>	g. Detention Pond(s) within the ROW
<u>NO</u>	<u>N/A</u>	h. Detention Pond(s) outside the ROW
<u>NO</u>	<u>N/A</u>	i. Summary of Quantities
<u>NO</u>	<u>N/A</u>	j. Storm Water Management facilities
<u>NO</u>	<u>N/A</u>	4. Storm Water Pollution Prevention Plan (SW3P)
<u>NO</u>	<u>N/A</u>	5. Scour Evaluation - Waterway Structures only (to be completed by Bridge Engineer under FC 170.

EXHIBIT "C"
 WORK SCHEDULE
 MILE 5 Project

From Taylor Road to FM 2220 (Ware Road)

TASK AND DESCRIPTION	FIRM	2016												2017											
		MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	
WORK AUTHORIZATION NO. 1																									
Phase I: EA, PUBLIC INVOLVEMENT, SCHEMATIC																									
from Taylor Road to FM 2220 (Ware Road)																									
Pre-design Meeting with TxDOT	L&G																								
Develop Alternatives & Matrix	L&G																								
Develop & Submit Schematic	L&G																								
TxDOT Review	L&G																								
Advertise & Conduct Public Meeting	L&G																								
Revise & Submit Final Schematic for FHWA approval	L&G																								
FHWA/TxDOT Review & Revisions	TxDOT																								
TxDOT Schematic Approval	TxDOT																								
FHWA Schematic Approval	FHWA																								
Process Technical Reports	TxDOT																								
Agency Coordination	TxDOT																								
Administratively Complete Document	TxDOT																								
Environmental Decision	TxDOT																								
Hydrological Map	L&G																								
Preliminary Compensable Utilities	L&G																								

■ L&G Engineering Tasks
 ■ TxDOT Tasks

EXHIBIT D-1
ESTIMATED MAN-HOUR BREAKDOWN

MILE 5 PROJECT
from Taylor Road to FM 2220 (Ware Road)

	MANHOURS										TOTAL HOURS	Sub-Contract Amounts / ROW COST	TOTAL LINE ITEM COST
	Senior Project Manager	Senior Engineer	Senior Environmental Scientist / Specialist	Project Engineer	Senior Engineer Tech	CADD Operator / GIS Analyst	Admin / Clerical						
CONTRACT RATE	211.40	175.16	147.98	129.86	96.64	66.44	60.40						
WORK AUTHORIZATION NO. 1													
PHASE I - EA, PUBLIC INVOLVEMENT, SCHEMATIC, HYDROLOGIC DESIGN													
1 Environmental Document with TxDOT	70		250	250		116	99	785					\$ 97,920.06
2 Public Involvement with stakeholders and 1 Public Meeting	60		184	80		70	19	423					\$ 57,600.04
3 Archeological and Historical Research (See Page 2 & 2 for Sub Cost)			100	20		25		145				\$ 5,964.00	\$ 19,036.02
4 Engineering Technical Support at Public Meetings with Layouts, etc.	40		60	86		60	21	267					\$ 33,750.01
5 Schematic for Roadway	100	100		200	146	85	20	651					\$ 85,600.09
6 Hydrological Map for 1 Ditch & Irrigation Structure	40	60		205	261	180	20	766					\$ 84,000.09
7 Schematic Design for 3-8x8 Siphon with 48" Steel Pipe Bypass for Irrig Dist. #1	40	70		230	261	195	20	816					\$ 90,000.06
8 Office Surveys for Schematic	30	26		100	107	100	18	382					\$ 42,000.00
9 Preliminary Compensable Utility Identification on Schematic	38	26		120	165	140	9	488					\$ 54,000.03
10 Update Schematic based on comments as provided by TxDOT/FHWA	9	5		70	101	116	11	312					\$ 30,000.02
11 Engineering Technical Support at Public Hearing with Layouts, etc.	38	35	58	64		52	25	272					\$ 36,000.03
12 Public Involvement for 1 Public Hearing	56	14	75	50		55	8	258					\$ 36,000.09
SUB-TOTAL	521	336	737	1475	1042	1194	269	5574				\$ 5,964.00	\$ 665,906.52

Sub-Total Manhours Fee with Subconsultant Fee: \$ 671,870.52

*** TOTAL PROJECT FEE: \$ 671,870.00**

* Rounded Figure

**Supplemental Cultural Resource Investigations
Mile 5 Road from Taylor Road to FM 2220
Hidalgo County, Texas**

COMPENSATION

Client will compensate AmaTerra on a firm fixed price basis (lump sum) of **\$5,964.00** as a supplemental work authorization to the FM 676 La Homa to Taylor Road project, authorized for **\$28,176.80**. AmaTerra will invoice L&G monthly based on percentage of completion. A cost breakdown is provided below.

COST BREAKDOWN										
Mile 5 from Taylor Road to Fm 2220										
LABOR	PCR	Permit App/ Research Design	Fieldwork	Draft and Final Reports	Curation	Admin and Project Mgmt	Total	Unit	Unit Price	Cost
Principal	0	0	0	0	0	1	1	hr	\$ 216.00	\$ 216.00
Archeologist V/ Principal Investigator	1	0	0	1	0	2	4	hr	\$ 128.00	\$ 512.00
Archeologist IV	0	0	0	0	0	1	1	hr	\$ 103.00	\$ 103.00
Archeologist III	1	0	8	6	2	0	17	hr	\$ 73.00	\$ 1,241.00
Archeologist II	1	0	8	4	0	0	13	hr	\$ 68.00	\$ 884.00
Archeologist I	0	0	0	0	0	0	0	hr	\$ 58.00	\$ -
Historical Architect/ Senior Historian	1	0	0	1	0	2	4	hr	\$ 133.00	\$ 532.00
Architectural Historian III	0	1	0	4	0	0	5	hr	\$ 104.00	\$ 520.00
Historian II	1	2	4	6	0	0	13	hr	\$ 82.00	\$ 1,066.00
GIS Specialist	1	0	0	2	0	0	3	hr	\$ 84.00	\$ 252.00
Administrative/ Document Production Supervisor	0	0	0	0	0	2	2	hr	\$ 88.00	\$ 176.00
Editor	0	0	0	1	0	0	1	hr	\$ 60.00	\$ 60.00
TOTAL LABOR										\$ 5,562.00
EXPENSES	PCR	Permit App/ Research Design	Fieldwork	Draft and Final Reports	Curation	Admin and Project Mgmt	Total	Unit	Unit Price	Cost
Copies, b/w	0	0	10	50	10	10	80	each	\$ 0.10	\$ 8.00
Copies, color	0	0	0	50	10	10	70	each	\$ 1.00	\$ 70.00
Mileage	0	0	35	0	0	0	35	mile	\$ 0.56	\$ 19.60
Lodging (NTE)	0	0	2	0	0	0	2	night	\$ 88.00	\$ 176.00
Taxes, lodging (15%)	0	0	2	0	0	0	2	night	\$ 13.20	\$ 26.40
Meals	0	0	2	0	0	0	2	day	\$ 51.00	\$ 102.00
Airfare	0	0	0	0	0	0	0	each	\$500.00	\$ -
Car Rental	0	0	0	0	0	0	0	day	\$75.00	\$ -
TOTAL EXPENSES										\$ 402.00
TOTAL										\$ 5,964.00

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CERTIFICATE OF INTERESTED PARTIES

FORM 1295

1 of 1

Complete Nos. 1 - 4 and 6 if there are interested parties.
 Complete Nos. 1, 2, 3, 5, and 6 if there are no interested parties.

OFFICE USE ONLY CERTIFICATION OF FILING

1 Name of business entity filing form, and the city, state and country of the business entity's place of business.
 L&G Consulting Engineers INC
 Mercedes, TX United States

Certificate Number:
 2016-9859

Date Filed:
 02/05/2016

2 Name of governmental entity or state agency that is a party to the contract for which the form is being filed.
 Hidalgo County

Date Acknowledged:

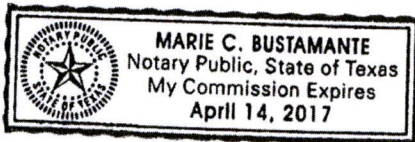
3 Provide the identification number used by the governmental entity or state agency to track or identify the contract, and provide a description of the goods or services to be provided under the contract.
 C-16-049-02-16
 Mile 5 - Engineering Services

4 Name of Interested Party	City, State, Country (place of business)	Nature of interest (check applicable)	
		Controlling	Intermediary
Sandoval , Armando	Mercedes, TX United States		X
Garza, Jacinto	Mercedes, TX United States	X	

5 Check only if there is NO Interested Party.

6 AFFIDAVIT

I swear, or affirm, under penalty of perjury, that the above disclosure is true and correct.



[Handwritten Signature]

 Signature of authorized agent of contracting business entity

AFFIX NOTARY STAMP / SEAL ABOVE

Sworn to and subscribed before me, by the said Jacinto Garza, this the 5th day of February 2016, to certify which, witness my hand and seal of office.

Marisela Marin

 Signature of officer administering oath

MARISELA MARIN

 Printed name of officer administering oath

Sec/Reor

 Title of officer administering oath

CERTIFICATE OF INTERESTED PARTIES

FORM 1295

1 of 1

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Hidalgo County

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C-16-049-02-16
 Mile 5 - Engineering Services

4	Name of Interested Party	City, State, Country (place of business)	Nature of interest (check applicable)	
			Controlling	Intermediary
	Sandoval , Armando	Mercedes, TX United States		X
	Garza, Jacinto	Mercedes, TX United States	X	

5 Check only if there is NO Interested Party.

6 AFFIDAVIT I swear, or affirm, under penalty of perjury, that the above disclosure is true and correct.

 Signature of authorized agent of contracting business entity

AFFIX NOTARY STAMP / SEAL ABOVE

Sworn to and subscribed before me, by the said _____, this the _____ day of _____, 20_____, to certify which, witness my hand and seal of office.

 Signature of officer administering oath Printed name of officer administering oath Title of officer administering oath

- 1. AI-53356 Requesting approval of a professional engineering services agreement# **C-15-425-02-16** with **L&G CONSULTING ENGINEERS, INC.** d/b/a **L&G ENGINEERING** for the purposes of **(on call)-"GEO TECHNICAL and CONSTRUCTION MATERIALS TESTING SERVICES"** for projects located within **HIDALGO COUNTY PRECINCT NO. 3**, commencing, **02/16/16**.
- 2. AI-53306 Acceptance and approval of a professional services agreement" No. **C-16-054-02-16** with **Hinojosa Engineering Inc.** for the purposes of a **(job specific) Project: "Surveying Services of the Penitas Landfill"** for **Hidalgo County Precinct 3**, **(Contract term one (1) year commencing 02/16/16 - 02/15/17)**.

F. **Pct. 4**

- 1. AI-53323 a. Acceptance and approval of a Professional Engineering Agreement# **C-16-049-02-16** with **L&G Consulting Engineers, Inc.** d/b/a **L&G Engineering**, for **[Job Specific] Project: "Mile 5 from Taylor Road to FM 2220 (Ware Road)"** for **Hidalgo County Precinct No. 4** including compliance with HB 1295 [if and when applicable];

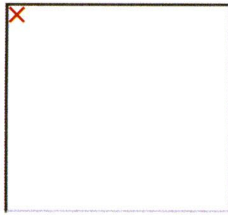
b. Pursuant to **Article 14** of the "professional engineering services agreement #**C-16-049-02-16** with **L&G Consulting Engineers, Inc.** d/b/a **L&G Engineering**, is requesting approval to engage the services of **TERRA ENVIRONMENTAL, INC.**) with provisions required by said article;

needs approval stamp

APPROVED	c. Acceptance and approval of Work Authority Agreement No. 1 with L&G Engineering for [Job Specific] Project: "Mile 5 from Taylor Road to FM 2220 (Ware Road)" for Hidalgo County Precinct No. 4 , in connection to agreement # C-16-049-02-16 . with an estimated cost of \$ 671,870.00 as submitted by project engineer, L&G Engineering for [Job Specific] Project: "Mile 5 from Taylor Road to FM 2220 (Ware Road)" for Hidalgo County Precinct No. 4 , in connection to agreement # C-16-049-02-16 .
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- 2. AI-53161 Requesting approval of an agreement between HC and AT&T [with acceptance of the document "as-is" without any changes] to provide internet circuit and related services to the Linn-San Manuel Emergency Services Facility including the issuance of a PO through [Requisition #290463] and subject to compliance with HB1295 and/or CIQ if and when applicable with a term of 24 months.
- 3. AI-53382 Ratification of issuance of PO#738354-\$120,777.10 - Southern Tire Mart, awarded vendor thru TASB-BuyBoard contract #470-14 for tires necessary to avoid a work stoppage including the awarded tires, and/or accessories, parts, appurtenances, mounting & balancing services.

G. **Health & Human Services Dept.**



**AGENDA
HIDALGO COUNTY
COMMISSIONERS COURT
MEETING
February 16, 2016
9:30 A.M.**

NOTICE is hereby given in accordance with Chapter 551, Texas Government Code, that a SPECIAL MEETING of the Commissioners Court will be held in the Commissioners Courtroom of the Administration Building, 100 E. Cano, 1st floor, Edinburg, Hidalgo County, Texas. Discussion and possible action relating to the following business will be transacted:

1. **Roll Call**
2. **Pledge of Allegiance**
3. **Prayer**
4. **Approval of Consent Agenda**
5. **Open Forum**
6. **County Judge's Office:**
 - A. AI-53416 Proclamation declaring February as Canned Food Month
 - B. AI-53423 Approval of Letter of Support for EDP Renewables Hidalgo Wind Farm with authority for County Judge to sign
7. **District Attorney's Office:**
 - A. AI-53231 DA's Office-Hidalgo County Domestic Violence Specialty Prosecutor Grant (1281):
 1. Requesting approval to apply for the FY2016 Hidalgo County Domestic Violence Specialty Prosecutor Grant
 2. Requesting approval of resolution to designate County Judge as the grantee's authorized official and to sign documents

22. **Precinct #4 - Comm. Palacios:**

- A. AI-53319 Pct. 4 Rd. Maint. (1200):
Approval of appropriation of funds for Pct. 4 in the amount of \$37,007.58

23. **Budget & Management:**

- A. AI-53431 Discussion, consideration and approval to submit the Texas VINE Reimbursement Maintenance Invoice in the amount of \$6,928.83 (Second Qtr) and the Texas Statewide Automated Victim Notification Service (SAVNS) County Verification of Continuing Production Record with authority for County Judge to sign the required documents.
- B. AI-53343 Discussion, consideration, and approval to set the indirect cost allocation rate at 7.36% for the grant fiscal year 2016, effective 10/01/15 through 9/30/16 for the FY 16 WIC Program.

- C. AI-53389 1. Approval of correction/clarification to Slot G027 (Health Clinics 340-003), as previously approved in Exhibit A on 02/03/16 (AI-53059).

Approved Budgeted Salary	Correct Budgeted Salary
\$42,725.00	\$44,007.00

2. Approval to revise salary schedule in accordance with Commissioner's Court action

D. **Budget Appropriations:**

1. AI-53361 Elections Contract §31.100 (1100):
1. Approval of 2015 unappropriation of funds in the amount of \$70,008.50.
 2. Approval of 2016 appropriation of funds in the amount of \$70,008.50 to fund operating expenditures.

Purchasing Department:**Notes:**

A. FOR ANY CONTRACT(S) AWARDED AND APPROVED UNDER THIS AGENDA, EXECUTED COPIES OF THE CONTRACT(S) WILL BE AVAILABLE ON THE COUNTY INTRA-NET WEBSITE AND WILL BE FOWARDED VIA E-MAIL, FAX OR HAND DELIVERED TO HIDALGO COUNTY AUDITOR'S OFFICE.

24.

B. ANY AND ALL REQUESTS FOR PAYMENT(S) APPROVED WILL BE SUBJECT TO COUNTY AUDITORS PROCESSING PROCEDURES INCLUDING AUTHORITY FOR COUNTY TREASURER TO ISSUE PAYMENT(S)/CHECK(S).