

HIDALGO COUNTY
Professional Engineering Services
Contract #C-20-471-09-01
Work Authorization Form

WORK AUTHORIZATION NO. 1

THIS WORK AUTHORIZATION is made pursuant to the terms and conditions of Section 7 of the Agreement made by and between **HIDALGO COUNTY**, action herein by and through the **Commissioner’s Court**, hereinafter called the “**Owner**,” and, **GDJ Engineering**, hereinafter called “**Engineer**”.

PART 1. SCOPE OF WORK

The purpose of this Work Authorization is for the Engineer to provide design and construction engineering services for the Precinct 2 Lopezville Park Improvement Project.

The **Engineer** is to provide the Services as required by the Agreement with Owner for Engineering Services. This includes but is not limited to the services identified in **EXHIBIT “A” – *Scope of Services to be provided by the Engineer*** which is attached hereto and incorporated by reference.

PART 2. ESTIMATED COST

The estimated cost for services under this Work Authorization is \$156,621.38. This amount is based upon the costs outlined in the Estimated **Cost Proposal** attached hereto as **EXHIBIT “B”**.

PART 3. PAYMENT

Compensation and payment to the Engineer for the services established under this Work Authorization shall be made in accordance with the project specific Professional Services Agreement between County and Engineer.

PART 4. FUNDING

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

Account No. _ _ _ _ _

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 the scope of work provided in this work authorization or (DATE).

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. 2 Commissioner Eduardo Cantu, as to content and detail of this Work Authorization No. 1.

**HIDALGO COUNTY
COMMISSIONER PRECINCT No. 2:**

BY: _____

PART 8. ACCEPTANCE AND APPROVAL

This Work Authorization is hereby accepted, approved by Hidalgo County Commissioners' Court on _____ as indicated below and effective as of _____ day of September, 2020.

THE ENGINEER:
GDJ ENGINEERING

THE COUNTY:
HIDALGO COUNTY

By: Robert Macheska, P.E., CFM

By: Richard F. Cortez, County Judge

ATTEST:

By: Arturo Guajardo Jr., County Clerk

LIST OF ATTACHMENTS

- ATTACHMENT A – Scope of Services by Engineer
- ATTACHMENT B – Cost Proposal
- ATTACHMENT C – Project Schedule

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

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: _____

PROJECT/DESCRIPTION: Survey, PS&E, CMT & CEI

LENGTH: N/A

HIGHWAY: Lopezville Park Improvements

LIMITS: Various

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)
- Park/Development Site Planning

ENGINEER shall mean GDJ Engineering.

COUNTY shall mean Hidalgo County.

LPA shall mean Hidalgo County.

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

PRELIMINARY PROJECT DEVELOPMENT

(Function Code 102)

PRELIMINARY PROJECT DEVELOPMENT:

The ENGINEER will perform any needed preliminary project development which will include:

1. Establish Preliminary Design Values
 - a. The Engineer will work with the Owner to establish basic design concepts, project controls and a general scope for the Project.
2. Prepare Preliminary Cost Estimates
 - a. The Engineer will calculate preliminary construction cost estimates for the location and geometry of the Projects.
3. Preliminary Environmental Analysis (for Fatal Flaws)
 - a. The Engineer will perform Preliminary Environmental Constraint Mapping to determine if any fatal flaws exist at the proposed project location.
4. Prepare a Project Fact Sheet for All Anticipated Costs
 - a. The Engineer will produce a Project Fact Sheet providing summaries of all pertinent items in the scope of services (as required) and providing estimated local costs vs. total project costs for the Projects.
5. Meetings, Coordination & Support for Project Development
 - a. The Engineer shall provide coordination services and shall assist in meetings and workshops with TxDOT, Hidalgo County, Hidalgo County Drainage District No. 1, any 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.

* A Phase I or better survey for hazardous materials should be included as a determining factor of route selection. Projects which do not require additional ROW should be considered separately from an expansion or new location.

ROUTE AND DESIGN STUDIES

(Function Code 110)

DESIGN STUDIES:

The ENGINEER will perform any of the following tasks needed for the design studies:

1. Develop Design Criteria
 2. Coordinate and Attend a Project Design Concept Conference
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EXHIBIT "A"
SCOPE OF SERVICES TO BE PROVIDED BY THE ENGINEER

FIELD SURVEYING AND PHOTOGRAMMETRY
(Function Code 150)

BOUNDARY & TOPOGRAPHY SURVEYS:

The SURVEYOR will perform Boundary and Topography Surveying for the project which will include:

1. Boundary Survey
 - a. Include Property Lines
 - b. Easements
 - c. Adjacent connecting properties and street Rights of Way

2. Topography Survey
 - a. Include all subsurface structures (utilities, drainage, irrigation, etc...)
 - b. Include all surface items (utilities, large vegetation, concrete items, etc...)
 - c. Adjacent Streets (full length of park property with cross sections every 100')
 - d. Minnesota Road south roadside ditches east of park property for an additional 500'
 - e. Outfall drainage ditch (2 cross sections at drainage ditch outfall)
 - f. Utilities along Minnesota Road and western private road
 - g. Natural ground spot elevation grid every 100'
 - h. Set 2 control points at opposite ends of park property

NOTE: ALL BEARING AND DISTANCE SHALL BE BASED ON THE STATE PLANE COORDINATE SYSTEM NAD 1983, SOUTH ZONE.

ALL DISTANCES AND COORDINATES SHALL BE SURFACE AND MAY BE CONVERTED TO GRID BY MULTIPLYING BY A COMBINED SCALE FACTOR OF 1.00004

ADDITIONAL RESPONSIBILITIES

A. TRAFFIC CONTROL:

The SURVEYOR shall control traffic in and near surveying operations adequately to comply with provisions of the latest edition of the TxDOT Manual on Uniform Traffic Control Devices – Part VI and the latest edition of the Occupational Safety Manual both of which can be found on the TxDOT internet site.

In the event field crew personnel must divert traffic or close traveled lanes, a Traffic Control Plan based upon principles outlined in the latest edition of the TxDOT Manual on Uniform Traffic Control Devices – Part VI shall be prepared by the SURVEYOR and approved by the ENGINEER prior to commencement of field work. A copy of the approved plan shall be in the possession of field crew personnel on the job site at all times and shall be made available to the ENGINEER for inspection upon request.

B. INVOICING:

Payment requests shall include a SURVEYOR's invoice. With each payment request, the SURVEYOR shall submit a project status report which will, as a minimum, include the percentage of total work complete as of the date of the payment request and a description of current work activity. The percentage of total work complete shall not be based simply on the percentage of funds expended, but shall be based on the best judgment of the SURVEYOR as to the percentage of actual work complete.

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

- C. EASEMENTS, LETTERS OF PERMISSION, ETC.**
The SURVEYOR shall be responsible for delineating easements. The SURVEYOR will be responsible for securing the necessary legal instruments and obtaining all Right-of-Entries (ROEs).
- D. MEETINGS:**
The ENGINEER shall setup the necessary meetings with the SURVEYOR in order to assure all field information is provided on-time and products are delivered in accordance with TxDOT's/LPA's specifications. SURVEYOR must attend all meetings involving data provided if requested by ENGINEER.
- E. PROJECT MANAGER/SURVEYOR COMMUNICATION:**
The SURVEYOR shall designate one Texas Registered Professional Land Surveyor (RPLS) to be responsible throughout the project for project surveying coordination and all communications, including billing, with the ENGINEER.
- F. OFFICE LOCATION:**
The SURVEYOR will perform the services to be provided under this agreement out of a local office and have a crew available to perform requested tasks within 24 hours of request. The coordinating SURVEYOR's Project Manager (RPLS) shall be accessible at all times and working from the local office.
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EXHIBIT “A”
SCOPE OF SERVICES TO BE PROVIDED BY THE ENGINEER

ROADWAY DESIGN CONTROLS

(Function Code 160)

ROADWAY DESIGN:

The ENGINEER will perform roadway design services for the needed construction repairs along the project limits. The services will include:

1. Geometric Design
 - a. Horizontal and Vertical Alignment
 - 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 LPA.
 - c. Handling of traffic during construction shall be a consideration in the development of preliminary designs.
2. Exhibits for Airway/Highway clearance permits (if within airport vicinity)
3. Grading Design
 - a. Refine the horizontal alignment including the following items
 - i. Typical Sections
 - ii. Design Cross Sections
 - iii. Determine Cut and Fill Quantities
 - iv. Slope Stability Analysis, if applicable
 - v. Embankment Foundation Stability Analysis, if applicable
 - vi. Embankment Settlement Analysis, if applicable
4. Pavement Design
 - 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
 - i. Provide Soil Core Holes (location and number to be agreed upon with Owner)
 1. Along center line of each roadway
 - ii. Identify , interpret and summarize the geological features that affect engineering design (PI, sulfate content & % of lime)
 - d. Traffic Data for Pavement Design
 - e. Basic Design Criteria
 - f. Life Cycle Cost Analysis(es)
 - g. Cost Data
 - h. Pavement Material Properties
 - i. Rehabilitation Investigations
 - i. Soil Core Holes to determine type and depth of existing material, pavement, etc. The ENGINEER, in coordination with LPA, will determine whether to salvage the existing ACP and Flexbase.

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

DRAINAGE
(Function Code 161)

DRAINAGE DESIGN:

The ENGINEER will perform drainage design services for the needed construction repairs along the project limits. All hydraulic design shall be in accordance with TxDOT’s Hydraulic Manual, except where variances are permitted in writing by the LPA. The services will include:

1. Hydraulic Studies, Discharges
 - a. Hydrologic Map showing drainage areas, contours and drainage Q’s.
 - b. Drainage area maps showing existing conditions and proposed improvements.
 - c. Hydrologic data/discharge determination

 2. Hydraulic Drainage Study & Documentation
 - a. Hydraulic Computations, if applicable
 - i. Storm water detention available within the ROW (linear ft. along side drain ditch).
 - ii. Storm water detention available outside the ROW (as per local Drainage District)
 - iii. Culverts
 - iv. Channels
 - v. Storm sewers/inlets
 - vi. Irrigation Canals/Siphons
 - b. Federal Emergency Management Agency (FEMA) floodway requirements
 - c. Determine impact of proposed drainage plan on Drainage District or Irrigation District receiving streams

 3. Layout, Structural Design and Detailing of Drainage Features
 - a. Culverts
 - i. New Culverts
 - ii. Culvert widening and/or lengthening
 - iii. Culvert replacements
 - b. Storm Sewers
 - i. New storm sewers
 - ii. Modify existing storm sewers
 - iii. Inlets
 - iv. Manholes
 - v. Trunk lines
 - c. Outfall channel(s) within the ROW
 - d. Outfall channel(s) outside the ROW
 - e. Summary of Quantities

 4. Storm Water Pollution Prevention Plan (SW3P)
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EXHIBIT "A"
SCOPE OF SERVICES TO BE PROVIDED BY THE ENGINEER

SIGNING, MARKINGS AND SIGNALIZATION

(Function Code 162)

PAVEMENT MARKINGS:

The ENGINEER will provide pavement marking layouts for the needed construction repairs along the project limits. The services will include:

1. Signing and Markings Layout
 - a. Roadway layout
 - b. Center line with station numbering
 - c. ROW lines
 - d. Culverts and other structures that present a hazard to traffic
 - e. Location of utilities, if not shown on plan and profile
 - f. Existing signs to remain, to be removed, to be relocated
 - g. Proposed signs (illustrated and numbered)
 - h. Existing overhead sign bridges to remain, to be revised, removed or relocated
 - i. Proposed overhead sign bridges indicating location by plan layout (electrical details need not be shown on this layout)
 - j. Proposed markings (illustrated and quantified) which include pavement markings, object markings and delineation
 - k. Quantities of existing pavement markings to be removed
 - l. Proposed delineators and object markers
2. Summary of Small Sign Tabulation
3. Sign Detail Sheets
 - a. Dimensions of letters, shields, borders, corner radii, etc.
 - b. Designation of shields attached to guide signs
 - c. Designation of arrow used on exit direction signs

MISCELLANEOUS ROADWAY

(Function Code 163)

TRAFFIC CONTROL PLAN, DETOURS AND SEQUENCE OF CONSTRUCTION:

The ENGINEER will provide a Traffic Control Plan (TCP) for the needed construction repairs along the project limits. TCP's are required for all projects; therefore a detailed TCP shall be developed when traffic handling during construction involves complications for which a feasible solution is not covered by the Texas MUTCD or the current Barricade and Construction (BC) standards. The following items are required on all TCP Layouts:

1. The Sequence of Construction and method of handling traffic during each phase
 2. Roadway layout
 3. Center line with station numbering
 4. The existing and proposed traffic control devices that will be used to handle traffic during each construction sequence. Include signals, regulatory signs, warning signs, construction warning signs, guide signs, route markers, construction pavement markings, channelizing devices, portable changeable message signs, flashing arrow boards, barricades, barriers, etc...
 5. The proposed traffic control devices (stop signs, signals, flag person, etc.) at grade intersections during each construction sequence.
 6. Where detours are provided, typical cross sections shall be shown.
 7. Road construction work hours shall be developed after an investigation of the traffic volumes has been performed.
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EXHIBIT "A"
SCOPE OF SERVICES TO BE PROVIDED BY THE ENGINEER

PARK FEATURES DESIGN:

The ENGINEER will include in the PS&E a design for the following park features:

1. 2-Fishing Ponds
 - a. Approximately 0.25 acres
2. 3-Soccer Fields
 - a. 2-Youth Sized soccer fields
 - b. 1-Adult Sized soccer field
3. 1-Full Sized Regulation Basketball Court
4. 2-Tennis Courts
5. Picnic Area
6. Safety Lighting
7. 150' x 100' Metal Pavilion

COMPUTE AND TABULATE QUANTITIES:

The ENGINEER will provide a summary of quantities sheet in the plans identifying all estimated project quantities.

PROJECT ESTIMATE:

The ENGINEER will provide a project estimate summarizing all estimated construction costs.

SPECIFICATIONS AND GENERAL NOTES:

The ENGINEER will provide all relevant project specification and general notes to the project construction activities.

PROJECT MANAGEMENT

(Function Code 164)

MEETINGS, COORDINATION & SUPPORT FOR PROJECT MANAGEMENT:

The ENGINEER shall meet and coordinate with all relevant entities (i.e. County, Regional Mobility Authority, Texas Department of Transportation, Rio Grande Valley Metropolitan Planning Organization, etc...) 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.

CONSTRUCTION PHASE SERVICES

(Function Code 320)

The ENGINEER will provide engineering, geotechnical testing and support services for and during the construction of the Project or portions of the Project approved by the LPA. Specific (basic and special) services for CONSTRUCTION MANAGEMENT AND SUPPORT by the ENGINEER will include the following:

CONSTRUCTION BIDDING:

1. The ENGINEER will furnish the LPA the necessary copies of approved plans, specifications, notices to bidders, and proposals as prepared under PS&E.
 2. The ENGINEER will assist the LPA on the tabulation of bids, recommendations to the Owner as to the proper action on all bid proposals received, and the preparation of formal contract documents for the award of each construction contract.
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EXHIBIT "A"
SCOPE OF SERVICES TO BE PROVIDED BY THE ENGINEER

CONSTRUCTION CONTRACT ADMINISTRATION AND INSPECTION:

3. In general, the ENGINEER will provide the management and engineering support/data required for consultation and advisement to the LPA and act as the LPA's representative as provided in the General Condition of the Construction Contract.
4. The ENGINEER will coordinate and conduct a pre-construction conference (if required).
5. Defects and Deficiencies. The ENGINEER will use his best efforts to protect the LPA against defects and deficiencies in the work of the Contractor. The ENGINEER will promptly notify the LPA of any such defect or deficiency, and take all steps possible to require the Contractor to correct the defect or deficiency.
6. Contractor Payment. The ENGINEER will review quantities as submitted by the Contractor and will coordinate with the LPA for the preparation of the monthly and final estimates for payment to the Contractor.
7. The ENGINEER will provide Project site inspection of the authorized construction contract as follows:
 - a. Project Engineer. The ENGINEER will provide visits by the Project Engineer or a competent representative of the ENGINEER to the site of construction for the purpose of monitoring the Contractor's progress and conformance to the construction contract plans and specifications.
 - b. Resident Engineer and/or Construction Inspector(s). The ENGINEER will furnish the services of a Resident Engineer and/or Construction Inspector(s) for on the site inspection construction to monitor/inspect the Contractor's daily progress and conformance to TxDOT's PS&E specifications.

MISCELLANEOUS TECHNICAL ACTIVITIES:

8. Shop Drawings. The ENGINEER will review and check all shop or working drawings furnished by the Contractor.
 9. Control of Materials & Equipment. The ENGINEER will provide inspection of all materials and equipment furnished/used by the Contractor as follows:
 - a. Review and record all laboratory, shop and mill tests of materials and equipment for compliance with the construction contract specifications.
 - b. Observe and/or perform Project record testing and/or independent assurance testing as outlined in the construction contract specifications.
 10. Change Orders. When applicable the ENGINEER will prepare the engineering data, including plan sheet drawings, specifications, and estimates, for the preparation of construction contract change orders, which may be required due to actual field conditions encountered or new requirements directed by the LPA.
 11. As Built Drawings. The ENGINEER will develop as built drawings to depict the work as actually constructed. The LPA will be furnished five (5) set of prints.
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EXHIBIT “A”
SCOPE OF SERVICES TO BE PROVIDED BY THE ENGINEER

CONSTRUCTION MATERIAL TESTING:

The ENGINEER will provide the LPA with construction material testing services for the Project. The services to be provided include sampling and testing of all construction materials as required by the project plans and specifications. All sampling frequencies and test procedures will be performed in general accordance with the Texas Department of Transportation TEX methods (or ASTM methods as required) as outlined in the Guide Schedule for Sampling and Testing (11/07). The construction material testing includes, but is not limited to the following:

- a. Sampling and laboratory testing of soils and base materials proposed for use in the construction of Project (Roads/Bridges/Misc.) to determine compliance of these materials with project plans and specifications.
 - b. Field density testing of soils and base materials to ensure proper compaction as required by project plans and specifications.
 - c. Field sampling and testing of fresh concrete, and laboratory testing of hardened concrete to determine compliance with project plans and specifications.
 - d. Field compaction testing of asphalt to ensure proper compaction during lay down operations.
 - e. Field inspection, sampling and laboratory testing of asphalt materials to determine their material properties and their compliance with project plans and specifications.
 - f. The ENGINEER will be responsible for concrete batching as well as the asphalt testing at the plants to insure delivery of acceptable material to the job site.
 - g. Any additional laboratory testing as required/requested by the LPA and the project plans and specifications.
 - h. Providing accurate and timely reports to the LPA and all/other recipients as designated by the LPA.
 - i. The ENGINEER will verify the concrete and asphalt designs to assure it is in accordance with TxDOT specifications to be developed by the contractor.
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EXHIBIT "A"
SCOPE OF SERVICES TO BE PROVIDED BY THE ENGINEER

ADDITIONAL RESPONSIBILITIES

EASEMENTS, LETTERS OF PERMISSION, ETC.:

The ENGINEER shall be responsible for delineating easements. The ENGINEER will be responsible for securing the necessary legal instruments.

MEETINGS:

Meetings will be held with the FHWA, State Officials, local governments, property owners, utility owners, railroad companies, other consulting firms, etc., as needed or required by the LPA. The ENGINEER shall coordinate through the LPA for the development of this project with any local entity having jurisdiction or interest in the project (i.e., city, county, etc).

SPECIFICATIONS, SPECIAL PROVISIONS, SPECIAL SPECIFICATIONS:

Use the State's standard specifications or previously approved special provisions and/or special specifications. If a special provision and/or special specification is developed for this project, it shall be in the State's format and incorporate references to approved State test procedures.

PROJECT MANAGER/ENGINEER COMMUNICATION:

The ENGINEER shall designate one Texas Registered Professional Engineer to be responsible throughout the project for project management and all communications, including billing, with the LPA's Director. Any replacements to the ENGINEER's designated Project Manager/Engineer must be approved by the LPA.

Engineering documents produced for the department's engineering projects shall be signed, sealed and dated or CADD sealed in accordance with Administrative Order No. 5-89 and Administrative Circular No. 26-91.

DESIGN RESPONSIBILITIES:

The ENGINEER is responsible for design errors and/or omissions that become evident before, during or after construction of the project. The ENGINEER's responsibility for all questions arising from design errors and/or omissions will be determined by the LPA and all decisions shall be final and binding. This would include, but not necessarily be limited to:

1. All design errors and/or omissions resulting in additional design work to correct the errors and/or omissions.
2. Preparation of design documents and detail drawings necessary for a field change due to design errors and/or omissions.
3. Revision of original tracings to the extent required for a field change due to design errors and/or omissions.

The ENGINEER shall promptly make necessary revisions or corrections resulting from the ENGINEER's errors, omissions or negligent acts without additional compensation. Acceptance of the work by the LPA will not relieve the ENGINEER of the responsibility for subsequent correction of any such errors or omissions or for clarification of any ambiguities.

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

DOCUMENT AND INFORMATION EXCHANGE:

Data, Plan Sheets, General Notes and/or Specifications provided to the LPA shall be furnished on 8GB USB flash drives. Each 8 GB flash drive shall have a file titled Table of Contents. The Table of Contents shall indicate the locations of files within the directory structure of the documentation.

General Notes and specifications shall be provided in MS Office 2007 format. Plan sheets shall be provided in Microstation DGN or GEOPAK GPK format. PDF copies of plan sheets shall also be provided.

Two copies of the documentation shall be provided to the LPA.

If required, the ENGINEER shall provide to the LPA, a CD that contains all the plan sheets for the project. The graphics tape shall be compatible with the LPA's computer system.

CD Tape Required (YES or NO): YES

PROPOSAL TIME:

The time indicated in the proposal and the contract shall include time necessary for reviews, approval, etc.

OFFICE LOCATION:

The ENGINEER will perform all services to be provided under this agreement out of their office located at: 2805 Fountain Plaza Blvd., Suite A, Edinburg, Texas 78539



"EXHIBIT B" Cost Proposal

Lopezville Park Improvement Project

<i>Lopezville Park Improvement Project Hidalgo County - Pct. #2</i>		MANHOURS							Total Line Item Cost
		Principal	Project Manager	Project/Design Engineer	EIT	Engineering Tech	Admin/Clerical	Total Hours	
TASK									
Design Engineering Tasks									
1	Boundary & Topographic Survey	SUBCONSULTANT COST							\$ 5,400.00
2	Geotechnical Testing & Engineering	SUBCONSULTANT COST							\$ 7,989.00
3	Develop Park Site & Grading Plan	1	8	16	20	32		77	\$ 11,620.00
4	Design 10' Asphalt Walking Trail	2	14	20	34	40		110	\$ 10,194.00
5	Develop Drainage Plan	2	16	30	18	22		88	\$ 10,691.00
6	Design Parking Lot & Entrance	1	10	22	32	38		103	\$ 2,200.00
7	Design 2-Fishing Ponds	SUBCONSULTANT COST							\$ 2,450.00
8	Design 3-Soccer Fields, 1-Basketball Court & 2-Tennis Courts	SUBCONSULTANT COST							\$ 1,900.00
9	Design Picnic Area	SUBCONSULTANT COST							\$ 8,500.00
10	Design Safety Lighting	SUBCONSULTANT COST							\$ 2,700.00
11	Design Metal Pavilion	SUBCONSULTANT COST							\$ 3,150.00
12	Utility Design & Coordination	1	6	8	10		1	26	\$ 3,910.00
13	Develop Road Repair Construction Estimate, Specifications & General Notes	1	8	10	12		1	32	\$ 74,886.50
Subtotal (Design Engineering)		8	62	106	126	132	2	436	\$ 74,886.50
Construction Engineering Tasks									
14	Construction Management & Inspection (Scheduled Field Reports & Progress Photos)	SUBCONSULTANT COST							\$ 38,833.80
15	Construction Material Testing (3% of Construction Estimate, Excluding Park Equipment)	SUBCONSULTANT COST							\$ 24,000.00
Subtotal (Construction Engineering)		0	0	0	0	0	0	0	\$ 62,833.80
Project Management									
16	Project Site Visits	2	4	4				10	\$ 1,510.00
17	Meetings/Coordination/Management Oversight (SUB)	SUBCONSULTANT COST							\$ 3,786.08
18	Meetings/Coordination/Management Oversight	2	8	8			1	19	\$ 2,705.00
Subtotal (Project Management)		4	12	12	0	0	1	29	\$ 8,001.08
PROJECT SUBTOTAL LABOR HOURS		12	74	118	126	132	3	465	
Labor Hours		12	74	118	126	132	3	465	
Contract Rate		\$ 185.00	\$ 160.00	\$ 125.00	\$ 95.00	\$ 82.00	\$ 55.00		
Total Labor Costs		\$ 2,220.00	\$ 11,840.00	\$ 14,750.00	\$ 11,970.00	\$ 10,824.00	\$ 165.00	\$ 51,769.00	\$ 145,721.38

LINE ITEM EXPENSES

Mileage: \$0.58/mile (25 miles r/t x 200 trips) (SUB)	\$ 2,900.00
Geotechnical Field Drilling Operations & Testing (SUB)	\$ 8,000.00
Total Expenses	\$ 10,900.00

GDJ Engineering Total Cost

\$ 156,621.38

EXHIBIT "C"
PROJECT SCHEDULE
Lopezville Park Improvement Project

TASK AND DESCRIPTION	2020				2021							
	SEPT	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG
Design Phase Services												
Notice To Proceed												
Coordinate with Pct. #2 Staff												
Boundary & Topographic Survey												
Develop Park Plan Set												
Develop Park Construction Docs (Estimate, Specs, Gen Notes)												
Construction Phase Services												
Construction Operations												
Const Engineering & Inspection/Const Material Testing												

GDJ Engineering Work
 Hidalgo County Work