

**CITY OF EL PASO, TEXAS
AGENDA ITEM
DEPARTMENT HEAD'S SUMMARY FORM**

AGENDA DATE: October 12, 2021

PUBLIC HEARING DATE:

CONTACT PERSON(S) NAME AND PHONE NUMBER: Sam Rodriguez, City Engineer, (915) 212-1845

DISTRICT(S) AFFECTED: ALL

STRATEGIC GOAL: Create an Environment Conducive to Strong, Sustainable, Economic Development

SUBGOAL: Grow the core business of air transportation.

SUBJECT:

A resolution that the City Manager be authorized to sign the first amendment to the Agreement for Professional Services by and between the City of El Paso and Garver, LLC for a project known as "EPIA Taxiway K, K1, K2 and J Reconfiguration" for an amount not to exceed one hundred thirty-two thousand six hundred sixty six and no/33 dollars (\$132,666.33); and that the City Manager be authorized to establish the funding sources and make any necessary budget transfers and execute any and all documents necessary for execution of the Agreement. Funding Source: Airport and AIP/Grant Funds

BACKGROUND / DISCUSSION:

Garver, LLC was awarded "EPIA Taxiway K, K1, K2 and J Reconfiguration" on January 19, 2021. For a total of \$786,583.50.

This is the first amendment to the professional services agreement. The total cost for additional services is \$132,666.33. The additional services include additional design to separate the project into two phases to align with funding expectations. Stage I will move forward with construction phase services this year. Stage II will be brought to 100% design and held until ready to bid for construction.

PRIOR COUNCIL ACTION:

January 19, 2021 Award of Agreement of Professional Services to Garver, LLC in the amount of \$786,583.50.

AMOUNT AND SOURCE OF FUNDING:

Amount: \$132,666.33

Source: FAA CARES Match and FAA Grant Funds and Airport Enterprise Funds

580270 – 62335 – 3010 – 562 – G62A204003

580270 – 62330 – 3080 – 562 – G62A204003

HAVE ALL AFFECTED DEPARTMENTS BEEN NOTIFIED? X YES ___ NO

PRIMARY DEPARTMENT: Capital Improvement Department

SECONDARY DEPARTMENT: Aviation

*****REQUIRED AUTHORIZATION*****

DEPARTMENT HEAD:

Jerry DeMuro / for

(If Department Head Summary Form is initiated by Purchasing, client department should sign also)

RESOLUTION

BE IT RESOLVED BY THE CITY COUNCIL OF THE CITY OF EL PASO:

That the City Manager, or designee, is authorized to sign a First Amendment to Agreement for Professional Services between the City of El Paso and Garver LLC for the project known as “El Paso International Airport Taxiway K, K1, K2, and J Reconfiguration” to add additional services and increase the contract amount from an amount not to exceed \$786,583.50 to an amount not to exceed \$919,249.83. Further, that the City Engineer is authorized to approve additional basic services in an amount not to exceed an additional \$50,000. Further, that the City Engineer is authorized to approve additional services in an amount not to exceed an additional \$50,000. The City Engineer is authorized to execute any contract amendments to increase the contract amount as provided above. Further, that the City Manager, or designee, is authorized to exercise all rights and obligations under the agreement and to execute all documents necessary to effectuate the intent of this resolution.

ADOPTED this _____ day of _____, 2021.

THE CITY OF EL PASO:

ATTEST:

Oscar Leeser
Mayor

Laura D. Prine
City Clerk

APPROVED AS TO FORM:



Omar A. De La Rosa
Assistant City Attorney

APPROVED AS TO CONTENT:



Sam Rodriguez
City Engineer

FIRST AMENDMENT TO AGREEMENT FOR PROFESSIONAL SERVICES

This First Amendment to the Agreement for Professional Services (“First Amendment”), is between the City of El Paso, a municipal corporation organized and existing under the laws of the State of Texas, (“**Owner**”), and **Garver, LLC** an Arkansas Limited Liability Company (“**Consultant**”), collectively referred herein as (“**Parties**”).

WHEREAS, on January 19, 2021, the parties entered in to an Agreement for Professional Services (“**Agreement**”), and attached hereto as **Exhibit “A”**; and

WHEREAS, the Owner and Consultant desire to amend the agreement to add an additional scope of services shown Attachment “A-1”, to add the consultant’s fee shown on Attachment “B-1” of the Agreement, and to increase the maximum amount under the Agreement.

The Parties agree as follows:

1. The Agreement is amended to add Attachment “A-1” attached to this First Amendment.
2. The Agreement is amended to add Attachment “B-1” attached to this First Amendment.
3. Section 3.1 (Payment to Consultant) of the Agreement is amended to read as follows:

3.1 PAYMENT TO CONSULTANT. The Owner shall pay to the Consultant an amount not to exceed **\$919,249.83** for all basic services and reimbursables performed pursuant to this Agreement.

The City Engineer may, without further authorization from the City Council and in a form approved by the City Attorney, increase the total payment identified for all basic services and reimbursables performed pursuant to this Agreement in an amount not to exceed **FIFTY THOUSAND AND NO/100 DOLLARS (\$50,000.00)**, if such services are necessary for proper execution of the Project and the increased amounts are within the appropriate budget identified for the identified Project.

In addition, if authorized in advance by the City Engineer, in a form approved by the City Attorney, the Consultant may perform such Additional Services as also enumerated within Attachment "C" in an amount not to exceed **FIFTY THOUSAND AND NO/100 DOLLARS (\$50,000.00)**, if such services are necessary for proper execution of any identified Projects and the increased amounts are within the appropriate budget identified for the identified Projects. Additional Services exceeding **FIFTY THOUSAND AND NO/100 DOLLARS (\$50,000.00)** must have prior approval by City Council through written amendment to this Agreement.

The parties agree and understand that all fees and compensation to the Consultant shall only become due and payable in accordance with the terms of this Agreement and the

fees to be charged for the Project shall be pursuant to the Consultant's fee proposal for such Basic and Additional Services at the rates which is attached hereto as Attachment "B".

Payments to the Consultant shall be made pursuant to Attachment "D".

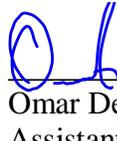
- 4. Except as amended in this First Amendment, the Agreement remains in full force and effect.

WITNESS THE FOLLOWING SIGNATURES AND/OR SEALS:

CITY OF EL PASO:

Tomas Gonzalez
City Manager

APPROVED AS TO FORM:



Omar De La Rosa
Assistant City Attorney

APPROVED AS TO CONTENT:



Samuel Rodriguez, P.E.
City Engineer

THE STATE OF TEXAS §
§
COUNTY OF EL PASO §

This instrument was acknowledged before me on this ____ day of _____, 2021, by **Tomás González**, as **City Manager** of the **City of El Paso, Texas**.

Notary Public, State of Texas

My commission expires:

[Consultant Signatures begin on the following page]

CONSULTANT:

THE STATE OF _____ §

§

COUNTY OF _____ §

This instrument was acknowledged before me on this _____ day of _____, 2021,
by [name], as [title] of CONSULTANT.

Notary Public, State of Texas

My commission expires:



APPENDIX A (SCOPE OF SERVICES)

Generally, the Scope of Services includes the following professional services for improvements to the Taxiway K, K1, K2, & J Reconfiguration at El Paso International Airport. Improvements will consist primarily of reconfiguration of the existing TW K1 and K2 pavement as well as the reconfiguration of taxiways leading to the cargo apron as shown in Exhibit 1. While working through the design process, a funding schedule was identified that was best supported by separating the project into two packages; Stage I and Stage II. Stage I will be bid in summer of 2021. Stage II will be brought to 100% design package and shelved until ready to bid for construction. Bidding and construction phase services are included in the scope of services for Stage II

The additional services will include:

- Drainage Services
- Revised Design Services
 - 90%/100% Final Design – Stage I
 - 90%/100% Final Design – Stage II
- Bidding Services – Stage I – *To be performed under previous agreement*
- Bidding Services – Stage II
- Construction Administration Services – Stage I – *To be performed under previous agreement (Scope reduction included)*
- Construction Administration Services – Stage II

A.1 Geotechnical Services

Not Applicable

A.2 Surveying Services

A.2.1 Design Surveys

Not Applicable

A.2.2 Property Surveys

Not Applicable

A.2.3 Easement Development

Not Applicable

A.3 Drainage Analysis

Garver will update hydrologic and hydraulic models of the airfield drainage system within the project limits for the 100-year storms. Conditions representing the completion of Stage I and a separate condition indicating the completion of Stage II will be evaluated.

A.4 Design Services



A.4.1 General

Garver will prepare detailed construction drawings, specifications, instructions to bidders, and general provisions and special provisions, all based on guides furnished to Garver by the Owner and FAA, or internally developed by Garver. Contract Documents (Plans, Specifications, and Estimates) will be prepared for award of **two (2) construction contracts**. These designs shall conform to the standards of practice ordinarily used by members of GARVER's profession practicing under similar conditions and shall be submitted to the FAA office from which approval must be obtained.

A.4.2 Owner / Agency Coordination

Garver's project manager and/or design team will coordinate with the Owner as necessary to coordinate design decisions, site visits, document procurement, or other design needs.

A.4.2.1 *Modifications to Standard*

Garver will develop a modification to standard (MOS) for FAA standard specifications as required. Garver will prepare the necessary MOS documentation for submission to the FAA through the Airport Data and Information Portal (ADIP). Documentation will include details of the defined standard, why the standard cannot be met, viable alternatives, and any necessary restrictions associated with the MOS.

A.4.2.2 *Separate Procurement for Special Systems*

Garver will assist with the development of separate procurement documents required by the AIP Handbook including such duties as assembling initial scope of work, equipment procurement requirements, design reviews, cost estimating, and reviewing the manufacturers/system installers invoices and scope of work documents to support the project. This work includes the required correspondence duties with the FAA ADO and PM as outlined in the AIP Handbook.

A.4.3 Quality Control

Garver will develop a project specific quality control plan. The quality control plan will include the project background and scope, stakeholder contact information, project team and roles, design criteria, project schedule, and quality control procedures.

Garver will complete a quality control review prior to any design submission to Owner and/or FAA. QC reviews will be completed by a senior construction observer and project manager. Weekly internal progress meetings will be held during all design phases to ensure adequate quality control throughout the design phases.

A.4.4 Environmental Coordination

Garver will develop a Stormwater Pollution Prevention Plan (SWPPP), including erosion control plans and details. Prior to construction, the contractor will submit the SWPPP and NOI shall be submitted to the Texas Commission of Environmental Quality (TCEQ) for permitting.

Garver understands that a CATEX has been completed and approved for this project.

A.4.5 Construction Safety and Phasing Plan



Garver will develop a construction safety and phasing plan (CSPP) for the project. During development of the CSPP, Garver will hold a meeting with Airport staff and other stakeholders at the Airport's request to obtain feedback regarding operations during each proposed phase of construction.

After receiving comments from the meeting, Garver will develop a preliminary CSPP for the Owner's review prior to submission to the FAA. After incorporating Owner comments, the CSPP will be submitted to FAA for review through the OE/AAA website.

A.4.6 Existing Conditions Review

A.4.6.1 *Record Document Review*

Garver will review record document data from the vicinity of the construction site to evaluate existing conditions. Record document data may include record drawings, record surveys, utility maps, GIS data, and previous design reports.

A.4.6.2 *Site Visits*

Garver's civil and electrical engineers will perform up to two (2) site visits to the project site to review existing conditions and evaluate survey and record document data.

A.4.7 Pavement Design

Garver will develop a fleet mix for the proposed project based on aircraft fleet data from the Airport Operator, Airport Master Plan, and Traffic Flow Management System Counts (TFMSC). Upon completion of the aircraft fleet mix, Garver will submit the fleet to the Owner for review. Upon approval by the Owner, Garver will use FAARFIELD and life cycle cost analysis methods to develop a recommendation for the most economical pavement design. Based on this analysis and discussions with the Owner, a pavement design for the project will be chosen. For concrete pavement design, Garver will design joint patterns and jointing details.

A.4.8 Geometric Design

Garver will provide geometric design in accordance with FAA AC 150/5300-13 (latest edition) or other local standards.

A.4.9 Modeling

Garver will develop preliminary vertical alignments based on the requirements of FAA AC 150/5300-13 (latest edition). Upon the completion of vertical alignments, assemblies will be developed based on the pavement design and corridors will be modeled for each taxiway and apron alignment. Modeling will include all surface changes from centerline of corridor to tie into existing grade for the project site. At the completion of individual corridor developments, all corridors will be combined into a final grading surface. Modeling will be an iterative process to determine the most efficient design solution.

A.4.10 Grading and Drainage

Grading and drainage design shall be completed in accordance with FAA AC 150/5300-13 (Airport Design), FAA AC 150-5320-5 (Airport Drainage Design), and applicable local drainage codes.

A.4.11 Airfield Electrical



A.4.11.1 Airfield Lighting and Signage

Garver will provide electrical engineering services to design the new lighting improvements on the project including but not limited to the following: runway/taxiway edge lighting, guidance signage, electrical vault modifications, and updates to the Airfield Lighting Control and Monitoring System (ALCMS). Updates to the ALCMS layout will be procured outside of the construction contract in order to comply with FAA procurement protocol.

A.4.11.2 NAVAIDS

Not Applicable

A.4.12 Utility Design and Coordination

Not Applicable

A.4.13 Specifications and Contract Documents

A.4.13.1 Technical Specifications

Detailed specifications shall be developed using FAA "Standards for Specifying Construction for Airports" AC 150/5370-10 (latest edition) or other appropriate standards approved for use by the FAA. Additional supplementary specifications will be developed for project requirements not covered by FAA AC150/5370-10 or when state or local standards are approved by the FAA.

A.4.13.2 Construction Contract Documents

Garver will provide proposal forms, instruction to bidders, general conditions, special conditions, and technical specifications for incorporation into City of El Paso Standard Contract. A specimen copy of the General Provisions and applicable prevailing wage rates will be obtained by Garver from the FAA and/or Department of Labor as appropriate for incorporation into the specifications for the proposed project. Final construction contract documents will be submitted to the Owner for final review and approval.

A.4.14 Quantities and Engineer's Opinion of Probable Cost.

Garver will develop detailed quantities in PDF format for use in construction cost estimating for each design phase. Quantities will be completed by pay item. Upon the completion of quantity development, Garver will review previous cost data and market conditions and complete an Engineer's Opinion of Probable Cost.

A.4.15 Design Services Submission and Meeting Summary

The following design submittal phases shall be included in the fee summary. A summary of each design phase and the associated review meetings is included below.

A.4.15.1 90% Final Design

Garver will develop 90% final design plans, specifications, and engineer's report and submit these to the Owner for review. It is anticipated that the Owner will review the design submission within one week.



At the completion of the Owner review period, Garver will meet with the Owner to review the 90% final design plans, specifications, and engineer's report and to receive Owner comments and direction.

A.4.15.2 100% Issued for Bid (IFB)

Garver will develop 100% IFB plans and specifications and submit these to the Owner for review. It is anticipated that the Owner will review the IFB submission within one week.

A.5 Bidding Services

Garver will assist the negotiating proposals for two prime contracts for construction, materials, equipment and services; and, where applicable, and attend a pre-bid conference. The Owner will pay advertising costs outside of this contract.

Garver will issue addenda as appropriate to interpret, clarify or expand the Bidding Documents. Garver will consult with and advise the Owner as to the acceptability of subcontractors, suppliers and other persons and organizations proposed by the prime contractor(s) (herein called "Contractor(s)") for those portions of the work as to which such acceptability is required by the Bidding Documents. Garver will consult with the Owner concerning and determine the acceptability of substitute materials and equipment proposed by Contractor(s) when substitution prior to the award of contracts is allowed by the Bidding Documents.

Garver will prepare a bid tabulation, and assist the Owner in evaluating bids or proposals and in assembling and awarding contracts for construction, materials, equipment, and services. Garver will assist the Owner in the execution of all contract documents and furnish a sufficient number of executed documents for the Owner, Contractor and FAA.

A.6 Construction Administration Services

During the construction phase of work, Garver will accomplish the tasks below.

A.6.1 Issued for Construction (IFC) Documents

Garver will compile bid addendums and any other necessary plan changes due to post-bid project updates and/or funding changes into a final Issued for Construction (IFC) set of plans and specifications.

A.6.2 Construction Management Plan

Garver will prepare a "Construction Management Plan" to be submitted to the Federal Aviation Administration (FAA) for approval. At a minimum, the plan shall list key construction personnel, qualifications of construction management personnel, and materials quality assurance information. The plan will be reviewed by the FAA project manager and must be approved along with the final plans and specifications for construction.

A.6.3 Submittals

Garver will evaluate and respond to construction material submittals and shop drawings. Corrections or comments made by Garver on the shop drawings during this review will not relieve Contractor from compliance with requirements of the drawings and specifications. The check will be for review of general conformance with the design concept of the project and general compliance with the information given in the contract documents. The Contractor will be responsible for confirming and correlating all quantities and dimensions, selecting fabrication processes and techniques of



construction, coordinating his work with that of all other trades, and performing his work in a safe and satisfactory manner. Garver's review shall not constitute approval of safety precautions or constitute approval of construction means, methods, techniques, sequences, procedures, or assembly of various components. When certification of performance characteristics of materials, systems or equipment is required by the Contract Documents, either directly or implied for a complete and workable system, Garver shall be entitled to rely upon such submittal or implied certification to establish that the materials, systems or equipment will meet the performance criteria required by the Contract Documents.

A.6.4 Preconstruction Meeting

Garver will attend preconstruction meeting.

A.6.5 Progress Meetings

As a minimum, Garver's Project Manager will attend weekly teleconference progress meetings with the Owner and Contractor and monthly site visits. It is expected that eight (8) meetings will be held on-site, and 26 meetings will be held via conference call. To the extent possible, progress meetings and visits to the site of the work should be scheduled to coincide with each new phase of construction, scheduled FAA inspections, and other times when Garver's presence is desirable. Garver's project engineer or his qualified representative will be available at all times work is in progress for telephone contact by the RPR. Garver's project engineer shall direct, supervise, advise, and counsel the Resident Project Representative and construction observation personnel in the accomplishment of Garver's duties. Garver will prepare for and attend any utility pre-construction meetings as required.

A.6.6 Owner Coordination

Garver will consult with and advise the Owner during the construction period. Garver will submit, when requested by the Owner, written reports to the Owner on the progress of the construction including any problem areas that have developed or are anticipated to develop.

A.6.7 RFIs

Garver will issue instructions to the Contractor on behalf of the Owner and issue necessary clarifications (respond to RFIs) regarding the construction contract documents.

A.6.8 Progress Payments

Not Applicable

A.6.9 Payroll Reviews

Not Applicable

A.6.10 DBE Compliance

Not Applicable

A.6.11 Record Drawings

Garver will maintain a set of working drawings and provide information for preparation of record drawings of the completed project. This information will be incorporated into final record drawings completed as part of Closeout Services (Closeout Services to be provided by others) and final record drawings will be provided to the Owner after project completion.

Appendix A – Scope of Services

Taxiway K, K1, K2, and J Reconfiguration
Amendment No. 1

Garver Project No. 20A25602



A.6.12 Change Orders

When *authorized by the Owner*, Garver will prepare change orders or supplemental agreements for changes in the work from that originally provided for in the construction contract documents. If redesign or substantial engineering or surveying is required in the preparation of these change order documents, the Owner will pay Garver an additional fee to be agreed upon by the Owner and Garver.

A.6.13 Final Inspection

Garver will participate in a pre-final walkthrough with the Owner. Garver will also participate in a final project inspection with the Owner and Contractor, prepare a punch list, review final project closeout documents, and submit the final pay request.

A.7 On-Site Resident Project Representative Services

Not Applicable

A.8 Materials Testing Services

Not Applicable

A.9 Project Closeout Services

Not Applicable

A.10 Project Deliverables

The following deliverables will be submitted to the parties identified below. Unless otherwise noted below, all deliverables shall be electronic.

1. 90% Final Design Plans, Specifications, and Report to the Owner.
 - a. Ten hard copies to Owner
2. 100% Issued for Bid Plans, Specifications, and Report to the Owner.
 - a. Three hard copies to the Owner for approval
 - b. Ten hard copies to Owner
3. Issued for Construction Plans and Specifications to the Owner.
 - a. One hard copy of all addenda.
4. Construction Management Plan to the Owner and FAA
5. Approved submittals to the Contractor.
6. Record Plans and Specifications to the Owner and FAA.
 - a. One hard copy to the Owner.
7. Other electronic files as requested.

A.11 Additional Services

The following items are not included under this agreement but will be considered as additional services to be added under Amendment if requested by the Owner.

1. Redesign for the Owner's convenience or due to changed conditions after previous alternate direction and/or approval.



2. Front end specifications and construction contract. Garver will provide proposal forms, instruction to bidders, general conditions, special conditions, and technical specifications for incorporation into City of El Paso Standard Contract.
3. Deliverables beyond those listed herein.
4. Design of any utility relocation.
5. Utility Relocation will be identified during the Preliminary Design Phase. If utility relocation is required for the preferred alternative, additional services will be required.
6. Utility Easement Development
7. Engineering, architectural, or other professional services beyond those listed herein.
8. Retaining walls or other significant structural design.
9. Preparation of a Storm Water Pollution Prevention Plan (SWPPP). The construction contract documents will require the Contractor to prepare, maintain, and submit a SWPPP to TCEQ.
10. Attendance of Bid Opening.
11. On-Site Construction Observation, Construction Materials Testing, and Project Closeout Services.
12. Environmental Handling and Documentation, including wetlands identification or mitigation plans or other work related to environmentally or historically (culturally) significant items.
13. Coordination with FEMA and preparation/submittal of a CLOMR and/or LOMR.
14. Services after construction, such as warranty follow-up, operations support, and Part 139 inspection support.
15. Utility Record Drawings developed for Franchise Utilities.
16. Project Construction Staking and Layout
17. Reimbursable Agreement will be coordinated with FAA by the Owner.
18. The owner will prepare and submit the 7460 through OE/AAA and coordinate with FAA. Garver will supply point locations as requested.
19. Review of the Construction Contractor's Progress Payment, Payroll Reviews, and DBE Compliance will be handled by the Construction Manager.

A.12 Schedule

Garver shall begin work under this Agreement upon execution of this Agreement and shall complete the work within the schedule attached herein.



Appendix B
El Paso International Airport
Taxiway K, K1, K2 and J Reconfiguration
Garver Hourly Rate Schedule: July 2020 - June 2021

Classification	Rates
Engineers / Architects	
E-1.....	\$ 129.13
E-2.....	\$ 153.04
E-3.....	\$ 179.83
E-4.....	\$ 212.34
E-5.....	\$ 261.13
E-6.....	\$ 322.34
E-7.....	\$ 387.00
Planners / Environmental Specialist	
P-1.....	\$ 164.00
P-2.....	\$ 185.57
P-3.....	\$ 221.00
P-4.....	\$ 232.00
P-5.....	\$ 268.00
P-6.....	\$ 306.00
P-7.....	\$ 370.00
Designers	
D-1.....	\$ 122.00
D-2.....	\$ 135.83
D-3.....	\$ 164.00
D-4.....	\$ 192.00
Technicians	
T-1.....	\$ 104.00
T-2.....	\$ 135.83
T-3.....	\$ 192.00
Surveyors	
S-1.....	\$ 65.00
S-2.....	\$ 77.00
S-3.....	\$ 107.00
S-4.....	\$ 147.00
S-5.....	\$ 194.00
S-6.....	\$ 226.00

2-Man Crew (Survey).....	\$ 234.00
3-Man Crew (Survey).....	\$ 299.00
2-Man Crew (GPS Survey).....	\$ 254.00
3-Man Crew (GPS Survey).....	\$ 319.00

Construction Observation

C-1.....	\$ 115.00
C-2.....	\$ 145.00
C-3Senior Construction Observer.....	\$ 175.00
C-4.....	\$ 226.00

Management/Administration

M-1.....	\$ 387.00
X-1.....	\$ 78.00
X-2.....	\$ 100.00
X-3.....	\$ 160.00
X-4.....	\$ 189.00
X-5.....	\$ 199.00
X-6.....	\$ 236.00
X-7.....	\$ 279.00

Agreement for Professional Services
Taxiway K, K1, K2 And J Reconfiguration

Garver Project No. 20A25602

Appendix B

El Paso International Airport Taxiway K, K1, K2 and J Reconfiguration

Amendment No. 1 FEE SUMMARY

Title I Service	Proposed Fees
<i>Drainage (MCi)</i>	\$ 19,356.33
Final Design - Stage I	\$ 87,400.00
Construction Phase Services - Stage I (Reduction of time from original agreement)	\$ (18,890.00)
Final Design - Stage II	\$ 44,800.00
Total Title I Service	\$ 132,666.33

Appendix B

**El Paso International Airport
Taxiway K, K1, K2 and J Reconfiguration**

FINAL DESIGN - STAGE I

WORK TASK DESCRIPTION	E-6 Senior Project Manager	E-5 Project Manager III	E-4 Project Manager II	E-3 Project Manager I	E-3 Project Manager I	E-1 Project Engineer I	C-3 Senior Construction Observer	T-2 Technician
	hr	hr	hr	hr	hr	hr	hr	hr
1. Project Management								
Internal Weekly Progress Meetings (4 Meetings)		4		4		4		4
Submittals to Owner/FAA				2				4
Subtotal - Project Management	0	4	0	6	0	4	0	8
2. Civil Engineering								
Horizontal Alignments				2		4		8
Vertical Alignments				2		4		8
Corridor Model				4		16		16
Develop Asphalt Pavement Section Alternative		16		24		40		40
Final Plans (90%) - Stage I								
Sheet Index								1
Summary of Quantities						1		2
General Project Layout						1		2
Survey Control Plans								1
CSPP Sheets				1		8		16
Erosion Control Sheet Review				1				1
Demolition Sheets						1		2
Storm Drain Sheet Review				2				
Typical Sections				2		4		4
Plan and Profile Sheets				2		4		8
Grading Sheets				2		4		8
Restoration Sheets				1		1		4
Joint Layout Sheets				1		4		4
Pavement Marking Sheets				1		4		4
Cross Section Sheets		1		2		16		16
General Sheet Review		1		2				
CSPP Review		2		2				
Drainage Design Review		2		2				
Constructability Review		1		2				
Quantities and Opinion of Probable Construction Cost		2		4		8		16
Technical Specifications		2		4				
Final Design QC Review	4	12		16		8		
Subtotal - Civil Engineering	4	39	0	79	0	128	0	161

Appendix B

El Paso International Airport Taxiway K, K1, K2 and J Reconfiguration

FINAL DESIGN - STAGE II

WORK TASK DESCRIPTION	E-6 Senior Project Manager	E-5 Project Manager III	E-4 Project Manager II	E-3 Project Manager I	E-3 Project Manager I	E-1 Project Engineer I	C-3 Senior Construction Observer	T-2 Technician
	hr	hr	hr	hr	hr	hr	hr	hr
1. Project Management								
Internal Weekly Progress Meetings (1 Meeting)		1		1		1		1
Submittals to Owner/FAA				2				4
Subtotal - Project Management	0	1	0	3	0	1	0	5
2. Civil Engineering								
Horizontal Alignments				1		2		4
Vertical Alignments				1		2		4
Corridor Model				2		4		4
Final Plans (100%) - Stage II								
Sheet Index								1
Summary of Quantities						1		2
General Project Layout						1		2
Survey Control Plans								1
General Notes								2
CSPP Sheets						2		8
Erosion Control Sheet Review				1				1
Demolition Sheets						1		2
Storm Drain Sheet Review				1				
Typical Sections								2
Plan and Profile Sheets				1		2		4
Grading Sheets				1		2		4
Restoration Sheets				1		1		4
Joint Layout Sheets				1		2		4
Pavement Marking Sheets				1		2		4
Cross Section Sheets		1		1		4		4
General Sheet Review		1		2				
CSPP Review		2		2				
Drainage Design Review		2		2				
Constructability Review		1		2				
Quantities and Opinion of Probable Construction Cost				2		4		8
Technical Specifications		2		4				
Final Design QC Review	4	4		8		8		
Subtotal - Civil Engineering	4	13	0	34	0	38	0	65

