

BOARD OF SUPERVISORS AGENDA ITEM REPORT
CONTRACTS / AWARDS / GRANTS

Requested Board Meeting Date: February 16, 2016

or Procurement Director Award ☐

Contractor/Vendor Name (DBA): Schlesinger Consulting Engineering, PLLC

Project Title/Description:

Design Engineering Services for Wilmot Road: North of Sahuarita Road.

Purpose:

Amendment of Award: Contract No. CT-TR-14-040, Amendment No. (One) 1. This amendment adds design and environmental services to the scope of work, increases the contract amount by \$104,976.75 for provision of these additional services, and extends the termination date of the contract to December 31, 2017. Administering Department: Transportation.

Due to the realignment of this roadway through Bureau of Land Management (BLM) property, the BLM has added additional design, environmental and reporting requirements to the scope of the work, resulting in an increase to the contract amount. An extension of the contract is required to allow for the provision of services through the end of the construction phase of the project which is anticipated by December 31, 2017.

Procurement Method:

Subsequent to Solicitation For Qualifications, Solicitation No. 80249, the Board of Supervisors awarded a contract for this project on August 15, 2013, in the amount of \$750,000.00 for a contract term of August 15, 2013, through August 14, 2016.

This amendment was initiated and negotiated by the Administering Department.

Attachment: Amendment No. (One) 1.

Program Goals/Predicted Outcomes:

The program goal is to complete the design of Wilmot Road from Sahuarita Road to Interstate 10. Currently, this road is a dirt road with significant usage. The project specifically addresses and determines a location (line and grade) for construction of a roadway and ancillary structures to facilitate the orderly movement of the traffic that is projected to be moving through the corridor for the next 10 to 15 years. In addition, the project will provide all other necessary connections to ensure full functionality and compatibility with abutting projects, roadways, and surrounding future and existing development.

Public Benefit:

Project is defined by Regional Transportation Authority (RTA) Element #33 to be in construction by the 2nd period of the RTA program. This will be a direct route into Tucson from the Southeast corridor area.

Metrics Available to Measure Performance:

Design documents to be completed/accepted by March 15, 2016, to be available for competitive bidding. In addition, consultant will be available during construction to design project field changes through the anticipated construction completion date of December 31, 2017.

Retroactive:

No

To: COB- 2-2-16 (1)
Pgs. - 26

Procurement Dept 02/02/16 PM 10:25

Original Information

Document Type: _____ Department Code: _____ Contract Number (i.e., 15-123): _____
Effective Date: _____ Termination Date: _____ Prior Contract Number (Synergen/CMS): _____
☐ Expense Amount: \$ _____ ☐ Revenue Amount: \$ _____
Funding Source(s): _____

Cost to Pima County General Fund: _____

Contract is fully or partially funded with Federal Funds? ☐ Yes ☐ No ☐ Not Applicable to Grant Awards
Were insurance or indemnity clauses modified? ☐ Yes ☐ No ☐ Not Applicable to Grant Awards
Vendor is using a Social Security Number? ☐ Yes ☐ No ☐ Not Applicable to Grant Awards

If Yes, attach the required form per Administrative Procedure 22-73.

Amendment Information

Document Type: CT Department Code: TR Contract Number (i.e., 15-123): 14-040
Amendment No.: One (1) AMS Version No.: Six (6)
Effective Date: 02/16/2016 New Termination Date: 12/31/2017
☒ Expense ☐ Revenue ☒ Increase ☐ Decrease Amount This Amendment: \$104,976.75
Funding Source(s): Regional Transportation Authority (RTA)

Cost to Pima County General Fund: \$00.00

Contact: Anthony V. Schlavone

Department: Procurement

Telephone: (520) 724-3245

Department Director Signature/Date: _____

Deputy County Administrator Signature/Date: _____

County Administrator Signature/Date: _____

(Required for Board Agenda/Addendum Items)

PIMA COUNTY DEPARTMENT OF TRANSPORTATION

PROJECT: DESIGN ENGINEERING SERVICES FOR
WILMOT ROAD: NORTH OF SAHUARITA
ROAD

CONSULTANT: Schlesinger Consulting Engineering, PLLC
510 E. 4th Street
Tucson, AZ 85705

CONTRACT NO.: CT-TR-14-000000000000000040

AMENDMENT NO.: One (1)

FUNDING: RTA Funds

CONTRACT

NO. CT-TR-14 * 040

AMENDMENT NO. 01

This number must appear on all
invoices, correspondence and
documents pertaining to this
contract.

CONTRACT TERM: 08/15/13 to 08/14/16	ORIGINAL CONTRACT AMOUNT:	\$	750,000.00
TERMINATION PRIOR AMENDMENT: 08/14/16	PRIOR AMENDMENT(S):	\$	-
TERMINATION THIS AMENDMENT: 12/31/17	AMOUNT THIS AMENDMENT:	\$	104,976.75
	REVISED CONTRACT AMOUNT:	\$	854,976.75

CONTRACT AMENDMENT

WHEREAS, COUNTY and CONSULTANT have entered into the Contract referenced above; and

WHEREAS, the Bureau of Land Management (BLM) has required additional design and environmental work and reporting due to the realignment of the roadway thru BLM property; and

WHEREAS, the COUNTY wishes to retain the services of CONSULTANT for additional work and thru the construction phase of the project; and

WHEREAS, this will require an increase in the Contract value and an extension of the Contract term; and

WHEREAS, CONSULTANT has proposed to perform the additional work at a price acceptable to COUNTY.

NOW, THEREFORE, it is agreed as follows:

CHANGE the first paragraph of ARTICLE I - TERM AND EXTENSION/RENEWAL/CHANGES

FROM: This Contract shall commence on August 15, 2013, and shall terminate on August 14, 2016, unless sooner terminated or further extended pursuant to the provisions of this Contract.

TO: This Contract shall commence on August 15, 2013, and shall terminate on December 31, 2017, unless sooner terminated or further extended pursuant to the provisions of this Contract.

CHANGE the first paragraph of ARTICLE II - SCOPE OF SERVICES

FROM: CONSULTANT agrees to provide Design Engineering Services for the COUNTY as described in **APPENDIX A: SCOPE OF SERVICES** (28 pages), an attachment to this Contract.

TO: CONSULTANT agrees to provide Design Engineering Services for the COUNTY as described in **APPENDIX A: SCOPE OF SERVICES** (28 pages) and **APPENDIX A-1: SCOPE OF SERVICES Modification No. 1** (2 pages), attachments to this Contract.

CHANGE the first paragraph of ARTICLE III - COMPENSATION AND PAYMENT

FROM: In consideration of the services specified in this Contract, the COUNTY agrees to pay CONSULTANT Not To Exceed Seven Hundred Fifty Thousand Dollars (\$750,000.00). CONSULTANT'S fees shall be as stated in **APPENDIX B: CONSULTANT FEE SCHEDULE** (44 pages), an attachment to this Contract.

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TO: In consideration of the services specified in this Contract, the COUNTY agrees to pay CONSULTANT Not To Exceed Eight Hundred Fifty-four Thousand, Nine Hundred Seventy-six Dollars, and Seventy-five cents (\$854,976.75). CONSULTANT'S fees shall be as stated in **APPENDIX B: CONSULTANT FEE SCHEDULE** (44 pages) and **APPENDIX B-1: CONSULTANT FEE Modification No. 1** (22 pages), attachments to this Contract.

This Amendment shall be effective on February 16, 2016.

All other provisions of the Contract, not specifically changed by this Amendment, shall remain in effect and be binding upon the parties.

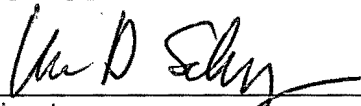
IN WITNESS WHEREOF, the parties have affixed their signatures to this amendment on the dates written below.

PIMA COUNTY:

Chair, Board of Supervisors

Date

CONSULTANT:



Signature

William D. Schickinger
Name and Title (Please Print)

2/1/16
Date

ATTEST:

Clerk of the Board

Date

APPROVED AS TO FORM:



Deputy County Attorney

ANDREW FLAGG

Name (printed)

1/28/2016
Date



510 E. 4th Street
Tucson, AZ 85705
Edie Griffith-Metty. (520) 668-8681
Bill Schlesinger. (520) 405-7353
Naresh Samtani. (520) 349-6041
www.sce.engineering

Scope of Work
Design Engineering Services for
Wilmot Road: North of Sahuarita Road
Contract Modification No. 1

Environmental

- **Task 1.3 Biological Evaluation**
The consultant team will perform a biological evaluation addressing threatened and endangered species, native plants and Pima County vulnerable species. See the Ecoplan Scopes of Work for details.
- **Task 1.5 Cultural Survey**
The consultant team will prepare a Class I and Class III cultural survey report for the project. See the Ecoplan Scopes of Work for details.

Planning

- **Task 3.1 Project Administration/Meetings**
The Project Manager for the consultant team will coordinate all sub-consultant efforts and be the point of contact for the Pima County project manager. The original design was scheduled to be completed by July 15, 2015. It is anticipated that the project schedule will be extended by 9 months. The project manager and selected team members will attend up to 9 coordination meetings, up to 2 over-the-shoulder review meetings and up to 2 meetings to prepare for public open houses. The SCE project manager and selected team members will attend up to 10 meetings with individual stakeholders and 1 open houses.
- **Task 3.4 Alternatives Analysis**
The consultant team will evaluate several design alternatives and incorporate the results into the 100% plans. Those alternatives are detailed in the AECOM scope of work.
- **Task 3.7 Drainage Report**
The consultant team will prepare a Final Drainage Report that reflects the final design.
- **Task 3.8 30% Plans**
The consultant team will not revise and resubmit the 30% plans.
- **Task 3.9 DCR and POD Preparation**
The consultant team will revise the Design Concept Report (DCR) to document the analyses performed and the decisions made that resulted in the final P, S & E. The final plans will be attached to the final DCR as appendices. The consultant team will also prepare a Plan of Development (POD) for submittal to the BLM.

Design

- **Task 4.2 100% Plans**
The consultant team will prepare 100% plans that incorporate the decisions made during the alternatives analysis.
- **Task 4.3 Sealed Plans**
The consultant team will prepare sealed plans that incorporate the review comments from the 100% plans.



510 E. 4th Street
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- **Task 4.4 Estimate**
The consultant team will prepare a cost estimate for each submittal.
- **Task 4.5 Specifications**
The consultant team will prepare final specifications that incorporate all review comments.

APPENDIX B-1: CONSULTANT FEE Modification No. 1 (22 pages)



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Project: Wilmot Road, North of Sahuarita Road
Client: Pima County Department of Transportation
Contract Type: Lump Sum
Date: January 11, 2016

Labor

Category	Labor Rate	Hours	Total Labor
Project Principal	\$65.00	50	\$3,250.00
Project Engineer	\$45.00	300	\$13,500.00
Designer/Drafter	\$40.00	160	\$6,400.00
Clerical	\$30.00	26	\$780.00

Total Labor Cost	536	\$23,930.00
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Overhead and Profit

	Rate (Percent)	Total
Overhead	125	\$29,912.50
Profit	10	\$5,384.25

Total Overhead & Profit Cost	\$35,296.75
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Direct Costs

Travel	\$0.00
Plotting	\$250.00
Reproductions	\$100.00

Total Direct Cost	\$350.00
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Subconsultants

AECOM	\$24,049.00
Ecoplan	\$21,351.00
McGann Associates	
NCS Consultants	
EEC	
JE Fuller	
Gordley Group	

Total Subconsultant Cost	\$45,400.00
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Total Fee	\$104,976.75
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Task Summary

Task	Task Description	Project Principal	Project Engineer	Designer/Drafter	Clerical	Total by Task
	Total by Category	50	300	160	26	536
1	Environmental	6	40	0	0	46
2	Right-of-Way	0	0	0	0	0
3	Planning	40	180	80	20	320
4	Design	4	80	80	6	170
5	Extended Services	0	0	0	0	0



EcoPlan Associates, Inc.
Environmental Science & Resource Economics

September 11, 2015

William D. Schlesinger, P.E.
Schlesinger Consulting Engineering, PLLC.
510 E. 4th Street
Tucson, AZ 85705

RE: Design Engineering Services for Wilmot Road: North of Sahuarita Road
PCDOT Contract No.: CT-TR-1400000000000000040
EcoPlan Project No.: 13-468 Amendment 1

Dear Mr. Schlesinger:

EcoPlan Associates, Inc. (EcoPlan) is pleased to submit this proposal for environmental services in support of the above-referenced Pima County Department of Transportation project. The services include cultural resources, biological resources, and general project management.

We have included a detailed scope of work, assumptions and cost estimate for your review and approval. We estimate the cost of services will be \$7,407. Invoices will be submitted monthly for work completed to date. Terms of payment are net 30 days.

Please contact me at (520)624-4326, extension 117 or Mike Dawson at extension 117 if you have any questions. Thank you for your time and consideration.

Sincerely,

George A Ruffner, Ph.D.
President

Enclosures: As noted



EcoPlan Associates, Inc.
Environmental Science & Resource Economics

SCOPE OF WORK

Design Engineering Services for Wilmot Road: North of Sahuarita Road

PCDOT Contract No.: CT-TR-1400000000000000040

EcoPlan Project No.: 13-468 Amendment 1

EcoPlan's participation for this project began in June of 2013. At that time, we anticipated that the environmental tasks would be completed in about 12 months. EcoPlan submitted the scoped Cultural Resources Survey Report and Biological Evaluation reports in April of 2014. The Preliminary Jurisdictional Delineation report was submitted in July of 2014. Subsequently, design changes and right-of-way easement issues delayed the review and approvals of the reports with the exception of the PJD which was approved by the US Army Corps of Engineers on September 11, 2014. Due the delays and uncertainty of Bureau of Land Management (BLM) involvement, EcoPlan's Cultural Resource Survey Report and Biological Evaluation have been subjected to unanticipated revisions and complications. The level of effort relative to how many Pima Pineapple Cactus (PPC) we would encounter and the resultant coordination with Pima County has also added unanticipated effort. Additionally, over the past year EcoPlan has participated in multiple meetings, research efforts and conference calls to sort out the potential impacts of BLM involvement in the project.

A summary of the scope of work associated with the additional work is provided below, the task numbers reflect the original scope numbers.

Task 1.3 - Biological Evaluation

EcoPlan prepared a Biological Evaluation report following field surveys in May of 2014. The report sat idle while the project team determined if BLM would be a reviewing agency, lead agency, or not involved. Due to the passage of time, several endangered species status have changed requiring edits to the report. Additionally, the numbers of PPC located and in proximity to roadway improvement impacts have resulted in considerable more effort to analyze and evaluate impacts and mitigation. The revisions will require several hours of effort which now include a USFWS Technical Assistance Letter. The Arizona Game and Fish Department On-Line Tool and USFWS Information, Planning and Conservation System (IPaC) will also need to be updated.

Task 1.3 Deliverables:

- *Revised BE addressing the full extent of possible impact to the protected PPC.*
- *Draft Technical Assistance report on behalf of Pima County to the USFWS.*
- *Support to Pima County for PPC mitigation.*
- *Updated AZGFD On-line Tool and USFWS IPaC.*

Task 1.5 - Cultural Resources Survey

Based on the September 3, 2015 decision to revert the roadway design back to the original scope at Sahuarita Road (no additional turn lanes) EcoPlan will not conduct additional field survey for the added improvements on Sahuarita Road west of Wilmot Road. EcoPlan will coordinate with Pima County Office of Cultural Resources and Historic Preservation to secure their review comments on the April 2014 Cultural Resource Survey Report. The report will be revised, as required, and will not reflect BLM as lead agency. Revisions will occur following receipt of comments from Pima County Office of Cultural Resources and Historic Preservation.

Task 1.5 Deliverables:

- *Revised Cultural Resources Survey Report.*



EcoPlan Associates, Inc.
Environmental Science & Resource Economics

Task 3.1 - Project Administration and Meetings

EcoPlan will continue to participate in project status meetings and discipline meetings, as needed. EcoPlan was originally scoped to attend six design team meetings, however, to date EcoPlan has attended ten meetings and anticipates participation in up to four additional meetings.

Task 3.1 Deliverables:

- *None anticipated.*

Assumptions:

The assumptions used to generate this scope of work and associated cost estimate are summarized below. Should additional services be required that are not described in this scope of work, EcoPlan will provide a supplemental scope and cost.

- Pima County coordination with USACE will result in confirmation of a non-notifying Nationwide Permit #14 for the planned roadway improvements.



EcoPlan Associates, Inc.
Environmental Science & Resource Economics

FEE ESTIMATE SUMMARY

PROJECT: Wilmot Road: North of Sahurita Road DATE: September 10, 2015

PREPARED BY: EcoPlan Associates, Inc. CONTRACT NO.: CT-TR-1400000000000000040

EFFECTIVE DATE: September 10, 2015 CONSULTANT: Schlesinger Consulting Engineering

CONTRACT TIME: CONTRACT TYPE:

METHOD OF COMPENSATION: CPFF by Task

DIRECT LABOR COST

	No. HOURS Estimated	HOURLY RATE Estimated	TOTAL COST Estimated
<u>CLASSIFICATION</u>	<u>Hours</u>	<u>Rates</u>	<u>Cost</u>
Project Manager	10	\$55.75	\$557.50
Senior Environmental Planner III	0	\$43.25	\$0.00
Environmental Planner	2	\$25.75	\$51.50
Senior Biologist	8	\$38.00	\$304.00
Senior Field Biologist	31	\$28.50	\$883.50
Cultural Principal Investigator	8	\$53.50	\$428.00
Cultural Project Director	0	\$32.60	\$0.00
Cultural Crew Chief	12	\$24.17	\$290.04
Archaeologist	0	\$15.00	\$0.00
Quality Control Specialist/Editor	4	\$38.00	\$152.00
GIS Graphics Technician	8	\$29.50	\$236.00
Secretary	0	\$14.38	\$0.00

(A) Direct Labor 83 Hrs. **\$2,903**

OVERHEAD

(B) OH Rate x (A) or 132.00% x \$2,903 = **\$3,831**

PROFIT

(C) % Profit Rate x (A+B) or 10.0% x \$6,734 = **\$673**

ESTIMATED OTHER DIRECT EXPENSES

TRAVEL \$0.00
REPRODUCTIONS \$0.00

(D) Estimated Other Direct Expenses = **\$0**

(E) ESTIMATED OUTSIDE SERVICES & SUBCONSULTANT COSTS

(F) TOTAL COST FOR ALL SUBCONSULTANT AND OUTSIDE SERVICES = **\$0**

ESTIMATED FEES

(G) TOTAL CONSULTANT FEE = **\$7,407**



EcoPlan Associates, Inc.
Environmental Science & Resource Economics

Workhour Estimate by Task

TASK MANAGEMENT	Project Manager	Environmental Planner	Senior Biologist	Senior Field Biologist	Cultural Principal Investigator	Cultural Crew Chief	Quality Control Specialist / Editor	GIS Graphics Technician	TOTAL
Task 1.3 Biological Evaluation	0	0	8	31	0	0	4	4	47
Task 1.5 Cultural Resources Survey	0	0	0	0	8	12	0	4	24
Task 3.1 Project Administration and Meetings	10	2	0	0	0	0	0	0	12
TOTAL HOURS	10	2	8	31	8	12	4	8	83



EcoPlan Associates, Inc.
Environmental Science & Resource Economics

EXHIBIT A: ESTIMATED DIRECT EXPENSES



EcoPlan Associates, Inc.
Environmental Science & Resource Economics

January 8, 2016

William D. Schlesinger, P.E.
Schlesinger Consulting Engineering, PLLC
510 East 4th Street
Tucson, Arizona 85705

RE: Design Engineering Services for Wilmot Road: North of Sahuarita Road
PCDOT Contract No.: CT-TR-1400000000000000040
PCDOT Project No.: 4RTWNS
EcoPlan Project No.: 13-468 Amendment 2

Dear Mr. Schlesinger:

EcoPlan Associates, Inc. (EcoPlan) is pleased to submit this amendment for the above-referenced project.

We have included a detailed scope of work, assumptions and cost estimate in this amendment for your review and approval. We estimate the cost of our services will be \$13,944. Invoices will be submitted monthly for work completed to date. Terms of payment are net 30 days.

Please contact Mike Dawson at (520) 624-4326, extension 177 if you have any questions. Thank you for your time and consideration.

Sincerely,

George A Ruffner, Ph.D.
President

Enclosures: As noted



EcoPlan Associates, Inc.
Environmental Science & Resource Economics

SCOPE OF WORK

Design Engineering Services for Wilmot Road: North of Sahuarita Road

PCDOT Contract No.: CT-TR-1400000000000000040

PCDOT Project No.: 4RTWNS

EcoPlan Project No.: 13-468 Amendment 2

EcoPlan's participation for the above referenced project began in June of 2013. At that time, it was anticipated that the environmental tasks would be completed in about 12 months. EcoPlan submitted the Cultural Resources Survey Report and Biological Evaluation (BE) report in April of 2014, and the Preliminary Jurisdictional Delineation (PJD) report in July of 2014. Subsequently, design changes and right-of-way grant issues delayed the review and approval of the reports with the exception of the PJD, which was approved by the United States Army Corps of Engineers (USACE) on September 11, 2014. Due to the delays and uncertainty of Bureau of Land Management (BLM) involvement, EcoPlan's Cultural Resources Survey report and BE report have been subjected to unanticipated reviews. After multiple meetings with Pima County Department of Transportation (PCDOT) and Schlesinger Consulting Engineering, PLLC it was determined that a separate BE and a new Cultural Resources report would be prepared to meet BLM needs.

In support of the overall PCDOT submittals to the BLM, EcoPlan was tasked with developing the base mapping to meet BLM standards. Additionally, PCDOT has requested that EcoPlan update the original BE for the 7.10 mile job to reflect project changes, and to support coordination with United States Fish and Wildlife Services (USFWS) related to Pima Pineapple Cactus (PPC) impacts. Please note that the BLM lands impacted encompass less than 0.25 miles of the entire 7.10 mile project area.

A summary of the scope of work associated with the additional work is provided below; the task numbers reflect the original scope numbers.

Task – 1.3 Biological Evaluation

EcoPlan prepared a BE report following field surveys in May of 2014. The report sat idle while the project team determined if BLM would be a reviewing agency, lead agency, or not involved. Guidance received from Pima County Office of Sustainability and Conservation in November 2015 directed EcoPlan to prepare a separate BE report for BLM. Two BE reports will be prepared, one specific to the 0.25 mile segment on BLM-managed lands and the second addressing the entire corridor, including BLM-managed lands. This is a result of specific requests by the BLM and pertains to the right-of-way grant requirements of that agency. Additionally, a full BE report for the 7.10 mile project was still desired by PCDOT in order to support PPC mitigation and coordination with USFWS. The full BE requires more detail due to number of PPC located in proximity to roadway improvements and the need to develop mitigation planning. This requires detailed mapping of soil types and coordination with Pima County Department of Environmental Quality. The updated BE will also serve as a USFWS Technical Assistance Letter. Due to passage of time the Arizona and Fish Department (AGFD) On-Line Tool and USFWS Information, Planning and Conservation System (IPaC) will also be updated.



Task 1.3 Deliverables:

- BE report specific to the BLM parcel.
- Revised BE addressing the full extent of the possible impacts to the protected PPC for the 7.1 mile project limits.
- Technical Assistance draft on behalf of PCDOT for submittal to the USFWS.
- Updated AGFD On-Line Tool and USFWS Information, Planning and Conservation System.

Task 1.3 Assumptions:

- The BE will meet BLM requirements for the right-of-way grant for 0.25 miles.
- EcoPlan will provide support to PCDOT for PPC mitigation.
- No new survey will be required.

Task – 1.5 Cultural Resources Survey

Pima County Department of Transportation decided in September 2015 to revert the roadway design back to the original scope at Sahuarita Road (no additional turn lanes). EcoPlan will not conduct additional field survey for the added improvements on Sahuarita Road west of Wilmot Road. EcoPlan has coordinated with Pima County Office of Cultural Resources and Historic Preservation to secure their review comments on the April 2014 Cultural Resource Survey Report. The report was revised to meet BLM needs as the lead agency. Additionally, since the original report submittal, the State Historic Preservation Office (SHPO) has changed preferred report formatting and documentation requirements, thus EcoPlan will need to revise the document both from the perspective of BLM as lead and new report standards.

Task 1.5 Deliverables:

- Revised Cultural Resources Survey Report to new SHPO standards and BLM requirements.

Task 1.5 Assumptions:

- No new survey will be required.
- All information required to prepare the report is in hand.

Task - 3.1 Project Administration and Meetings

EcoPlan will continue to participate in project status meetings and discipline meetings, as needed. EcoPlan was originally scoped for six design team meetings, however, to date EcoPlan has attended ten meetings and anticipates participation in at least four additional team meetings. EcoPlan has also been requested to develop the base map to be used for all disciplines submittals to BLM.

Task 3.1 Deliverables:

- Base mapping using BLM format and color schemes for use by engineering and environmental submittals.



EcoPlan Associates, Inc.
Environmental Science & Resource Economics

Task 3.1 Assumptions:

- Pima County coordination with USACE will result in confirmation of a non-notifying Nationwide Permit #14 for the planned roadway improvements.



FEE ESTIMATE SUMMARY

PROJECT: Design Engineering Services for Wilmot Road:
North of Sahuarita Road

DATE: January 7, 2016

PREPARED BY: EcoPlan Associates, Inc.

CONTRACT NO.: CT-TR-1400000000000000040

EFFECTIVE DATE: January 7, 2016

CONSULTANT: Schlesinger Consulting Engineering, PLLC

CONTRACT TIME:

CONTRACT TYPE:

METHOD OF COMPENSATION: CPFF by Task

DIRECT LABOR COST

CLASSIFICATION	No. HOURS	HOURLY RATE	TOTAL COST
	Estimated Hours	Estimated Rates	Estimated Cost
Project Manager	24	\$55.75	\$1,338.00
Senior Environmental Planner III	8	\$43.25	\$346.00
Environmental Planner	0	\$25.75	\$0.00
Senior Biologist	8	\$38.00	\$304.00
Senior Field Biologist	40	\$28.50	\$1,140.00
Cultural Principal Investigator	10	\$53.50	\$535.00
Cultural Project Director	0	\$32.60	\$0.00
Cultural Crew Chief	32	\$24.17	\$773.44
Archaeologist	0	\$15.00	\$0.00
Quality Control Specialist/Editor	10	\$38.00	\$380.00
GIS Graphics Technician	20	\$29.50	\$590.00
Secretary	4	\$14.38	\$57.52

(A) Direct Labor 156 Hrs. \$5,464

OVERHEAD

(B) OH Rate x (A) or 132.00% x \$5,464 = \$7,212

PROFIT

(C) % Profit Rate x (A+B) or 10.0% x \$12,676 = \$1,268

ESTIMATED OTHER DIRECT EXPENSES

TRAVEL	\$0.00
VIDEO	\$0.00
PLOTTING	\$0.00
REPRODUCTIONS	\$0.00

(D) Estimated Other Direct Expenses = \$0

(E) ESTIMATED OUTSIDE SERVICES & SUBCONSULTANT COSTS

(F) TOTAL COST FOR ALL SUBCONSULTANT AND OUTSIDE SERVICES = \$0

ESTIMATED FEES

(G) TOTAL CONSULTANT FEE = \$13,944



EcoPlan Associates, Inc.
Environmental Science & Resource Economics

Workhour Estimate by Task

TASK MANAGEMENT	Project Manager	Senior Environmental Planner III	Senior Biologist	Senior Field Biologist	Cultural Principal Investigator	Cultural Crew Chief	Quality Control Specialist / Editor	GIS Graphics Technician	Secretary	TOTAL
Task 1.3 Biological Evaluation Report			8	40			10	8		66
Task 1.5 Cultural Resources Report					10	32		12		54
Task 3.1 Project Administration and Meetings	24	8							4	36
TOTAL HOURS	24	8	8	40	10	32	10	20	4	156



EcoPlan Associates, Inc.
Environmental Science & Resource Economics

EXHIBIT A: ESTIMATED DIRECT EXPENSES



AECOM
333 E Wetmore Road, Suite 400
Tucson, AZ 85705
www.aecom.com

520 887 1800 tel
520 887 8438 fax

January 11, 2016

Mr. Bill Schlesinger, P.E.
SCE Engineering
510 E 4th Street
Tucson, AZ 85705

**SUBJECT: *Pima County Department of Transportation
 Wilmot Road North of Sahuarita Road
 PCDOT Contract No.: 4RTWNS
 AECOM Project No.: 60307990
 Contract Modification No. 1***

Dear Mr. Schlesinger:

Enclosed is a Contract Modification addressing revisions to the Wilmot Road Project's original Scope of Work and Fee Estimate. Following is the description of the revisions.

Scope of Work for Additional Services:

Investigate Wilmot Road Realignment at the BLM Property

AECOM was asked by Pima County Department of Transportation to investigate right-of-way and design impacts from realigning Wilmot Road to avoid a Pima Pineapple Cactus on the BLM property. The roadway alignment was analyzed both horizontally and vertically to ensure that all design criteria were met and an estimate of cut and fill grading limits were made to approximate right-of-way impacts given a 60' wide right-of-way through the BLM property. Guardrail requirements were also analyzed and added to the roadway design. These design changes were then integrated into the project plans.

AECOM spent 120 hours to complete this task.

Investigate Wilmot Road Realignment to Fit into the Existing R/W from Andrada Road to Sahuarita Road

AECOM was asked by Pima County Department of Transportation to investigate right-of-way and design impacts from realigning Wilmot Road to fit into the existing right-of-way between Andrada Road and Sahuarita Road, from the original alignment design that was set 24-ft east of the existing right-of-way centerline.

AECOM spent 52 hours to complete this task.

Investigate Wilmot Road Realignment to Avoid Pima Pineapple Cactus at Several Locations

AECOM was asked by Pima County Department of Transportation to investigate right-of-way and design impacts from realigning Wilmot Road to avoid all Pima Pineapple Cactus and tie into the existing road alignment at the BLM property. The limits of this analysis were from the north end of the project and extended down to Andrada Road which is approximately 5.5 miles.

AECOM spent 18 hours to complete this task.

AECOM is requesting an additional \$24,049 for the above mentioned additional services work.



AECOM
333 E Wetmore Road, Suite 400
Tucson, AZ 85705
www.aecom.com

520 887 1800 tel
520 887 8438 fax

If you have any questions or comments, please feel free to contact me at (602) 337-2515 or Matt Kershner at (520) 407-2834 or via email at matthew.kershner@aecom.com.

Sincerely,
AECOM Technical Services, Inc.

Steve Wilcox, P.E.
Vice President

Attachments

cc: Matt Kershner, AECOM Technical Services
File

**SCHLESINGER CONSULTING ENGINEERING, LLC
FEE ESTIMATE SUMMARY**

PROJECT: Wilmot Road, I-10 to Sahuarita Road DATE: 1/11/2016

PREPARED BY: Matt Kershner CONTRACT NO.:

EFFECTIVE DATE: CONSULTANT: AECOM

CONTRACT TIME: 12 Months CONTRACT TYPE: Lump Sum

METHOD OF COMPENSATION: Monthly

DIRECT LABOR COST

ITEM NO.	TASK DESCRIPTION	CLASSIFICATION	WORK HOURS (ESTIMATED HOURS)	HOURLY CONTRACT RATES	TOTAL COSTS (ESTIMATED COSTS)
CM No. 1	Investigate Wilmot Road realignment at the BLM property, south end and avoid Pima Pineapple Cactus conflicts	Principal Planner/Engineer	3	\$73.53	\$220.59
		Project Manager	44	\$56.51	\$2,486.44
		Project Engineer/Planner	86	\$49.29	\$4,238.94
		Engineer/Designer/Planner	32	\$32.30	\$1,033.60
		Drafting/CADD/Graphics	22	\$26.88	\$591.36
		Clerical	3	\$19.09	\$57.27

(A) DIRECT LABOR 190 Hrs. \$8,628

OVERHEAD

(B) OH RATE x (A) or 153.40% x \$8,628 \$13,235

PROFIT

(C) % PROFIT RATE x (A+B) or 10.0% x \$21,863 \$2,186

ESTIMATED DIRECT EXPENSES (EXHIBITS A & B)

Travel	\$0.00
Video	\$0.00
Plotting	\$0.00
Reproductions	\$0.00
Exhibits	\$0.00
Specialized Vendors	\$0.00
Reports	\$0.00

(D) ESTIMATED DIRECT EXPENSES \$0

ESTIMATED FEES

(E) TOTAL CONSULTANT FEE \$24,049

Steve Wilcox, PE Date
Vice President

AECOM

Wilmot Road

Work Hour Estimate By Task

[illegible]

AECOM

Contract No.:

**Wilmot Road
Work Hour Estimate By Task**

Description	Principal Planner/Engineer	Project Manager	Project Engineer/Planner	Engineer/ Designer/Planner	Drafting/ CADD/Graphics	Clerical	TOTAL	No. of Sheets	Hours Per Sht
CM No. 1									
ICM No. 1									
Investigate Wilmot Rd Realignment of BLM Property	1	24	58	20	18	1	120		
Investigate Wilmot Rd to Fit Into the Existing R/W from Andreda Rd to Sahuarita Rd	1	16	22	8	4	1	52		
Investigate Wilmot Road Realignment to Avoid Pima Pineapple Cactus at Several Locations	1	4	8	4	2	1	18		
Subtotal	3	44	88	32	22	3	190		
Description	Principal Planner/Engineer	Project Manager	Project Engineer/Planner	Engineer/ Designer/Planner	Drafting/ CADD/Graphics	Clerical	TOTAL	No. of Sheets	Hours Per Sht
TOTAL WORKHOURS	3	44	88	32	22	3	190		

EXHIBIT A: ESTIMATED DIRECT EXPENSES

TRAVEL:

Mileage:	# of Trips	Avg. Mi. per Trip	Cost/Mi.	Cost
	0	20	\$0.55	\$0.00
	0	60	\$0.55	\$0.00
Car:	# of Trips		Cost/Trip	Cost
				\$0.00
Air:	# of Trips		Cost/Trip	Cost
				\$0.00
Lodging:	Nights	People	Cost/Night	Cost
				\$0.00
Per Diem:	Meal	# of Meals	Cost/Meal	Cost
	Breakfast			\$0.00
	Lunch			\$0.00
	Dinner			\$0.00

TOTAL TRAVEL = \$0.00

VIDEO

Rental	Rate	# of Days	Cost
VHS Tape			\$0.00
			\$0.00

TOTAL VIDEO CAMERA = \$0.00

PLOTTING

	No. of Copies	Cost per Copy	Cost
Mylar Plots (Full Size)	0	\$6.00	\$0.00
Bond Plots (Full Size)	0	\$0.96	\$0.00

TOTAL PLOTS = \$0.00

REPRODUCTIONS:

Reports (See EXHIBIT B) \$0.00

Copies other than reports

Color Copies	No. of Copies	Cost per Copy	Cost
8-1/2" x 11"	0	\$0.18	\$0.00
11" x 17"	0	\$0.44	\$0.00
Black & White Copies			
8-1/2" x 11"	0	\$0.05	\$0.00
11" x 17"	0	\$0.12	\$0.00
Bluelines		\$0.00	\$0.00

TOTAL REPRODUCTIONS = \$0.00

EXHIBITS

Displays	No. of Copies	Cost per Copy	Cost
Mounting on Foam Board for Public Meetings	0	\$12.00	\$0.00
Presentation Blacklines		\$0.00	\$0.00
Color Photo Reductions		\$0.00	\$0.00

TOTAL EXHIBITS = \$0.00

SPECIALIZED VENDORS

Vendor Name	Cost
	\$0.00

TOTAL SPECIALIZED VENDORS = \$0.00

[illegible]