

BOARD OF SUPERVISORS AGENDA ITEM SUMMARY

Requested Board Meeting Date: September 3, 2013

ITEM SUMMARY, JUSTIFICATION and/or SPECIAL CONSIDERATIONS:

Amendment #2 contract # CT-FC-1300000000000000278, Schlesinger Consulting Engineering, PLLC, for Design Engineering Services for Canada Del Oro Wash Pathway: La Cholla to La Canada (5CDOLL). This Amendment adds scope and fee for the completion of Phase II Services as allowed under the Contract. This amendment increases the contract amount by \$232,424.15, and extends the contract term. Funding Source: Flood Control District Tax Levy Funds. Administering Department: Regional Flood Control District

Effective Date: September 3, 2013

Termination Date: September 30, 2015

Original Contract Amount: \$129,139.99

Previous Amendment(s): \$46,646.99

Previous Contract Amount: \$175,786.98

This Amount this Amendment: \$232,424.15

Revised Contract Amount: \$408,211.13

Cont #	: CT-FC-13X278-02
Effective:	: 09-03-2013
Term	: 09-30-2015
Cost	: \$232,424.15
Rev	:
Tot	: \$232,424.15
NTE	: \$408,211.13
Timex	: YPS
Renewal:	: 09-01-2015
Term	: 09-30-2015

Project Manager: Larry Robison, RFCD (243-1860)

Contract Officer: Mark Koskiniemi, (724-3723)
Procurement Department

Vendor is using a Social Security Number: NO

Please return to Harry Lewis.

CLERK OF THE BOARD USE ONLY: BOS MTG. _____

ITEM No. _____

To: CoB- 8.21.13
D. 9.3.13

PIMA COUNTY REGIONAL FLOOD CONTROL DISTRICT

PROJECT: Design Engineering Services for Canada Del Oro Wash
Pathway: La Cholla to La Canada (5CDOLL)

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

CONTRACT NO.: CT-FC-1300000000000000278

AMENDMENT NO.: Two (2)

FUNDING: Flood Control District Tax Levy Funds

CONTRACT

NO. CT-FC-1300000000000000278

AMENDMENT NO. 02

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

CONTRACT TERM: 10/01/12-04/01/14

TERMINATION PRIOR AMENDMENT: 06/30/14

TERMINATION THIS AMENDMENT: 09/30/15

ORIGINAL CONTRACT AMOUNT: \$ 129,139.99

PRIOR AMENDMENT(S): \$ 46,646.99

AMOUNT THIS AMENDMENT: \$ 232,424.15

REVISED CONTRACT AMOUNT: \$ 408,211.13

CONTRACT AMENDMENT

WHEREAS, DISTRICT and CONSULTANT entered into a Contract for services, as referenced above, dated October 1, 2012, and

WHEREAS, DISTRICT and CONSULTANT agreed that upon completion of Phase I Services, DISTRICT and CONSULTANT shall negotiate the fee for Phase II Services (the development of a 404 permit based on the results of impacts to the Jurisdictional Waters, a NPPO for recommended improvements, Geotechnical Analysis, final Drainage Report, final Right-of-Way Plan and legal descriptions, and final Contract Documents for the recommended improvements); and

WHEREAS, DISTRICT and CONSULTANT intend to amend this contract to include the mutually agreeable fee for Phase II Services and extension of the termination date to allow for successful project completion.

NOW, THEREFORE, it is agreed as follows:

CHANGE: ARTICLE I – TERM AND EXTENSION/RENEWAL, first sentence, as previously amended in Amendment 1, as follows:

FROM: "This Contract, as approved by the Board of Directors, shall commence on October 1, 2012 and shall terminate on June 30, 2014, unless sooner terminated or further extended pursuant to the provisions of this Contract."

TO: "This Contract, as approved by the Board of Directors, shall commence on October 1, 2012 and shall terminate on September 30, 2015, unless sooner terminated or further extended pursuant to the provisions of this Contract."

CHANGE: ARTICLE II – SCOPE, first sentence, as previously amended in Amendment 1, as follows:

FROM: "CONSULTANT agrees to provide Design Engineering Services in two phases for the DISTRICT as described in **APPENDIX A: SCOPE OF WORK** (1 page) and **APPENDIX A-1: Additional Scope of Work** (4 pages), attachments to this contract."

TO: "CONSULTANT agrees to provide Design Engineering Services in two phases for the DISTRICT as described in **APPENDIX A: SCOPE OF WORK** (1 page), **APPENDIX A-1: Additional Scope of Work** (4 pages), and **APPENDIX A-2: Phase II Services** (20 pages), attachments to this contract."

ATTACH APPENDIX A-2: Phase II Services to the Contract (20 pages).

CHANGE: ARTICLE III – COMPENSATION AND PAYMENT, first paragraph, as previously amended in Amendment 1, as follows:

FROM: "In consideration of the services specified in this Contract, the DISTRICT agrees to pay CONSULTANT as follows: Not To Exceed One Hundred Seventy-Five Thousand Seven Hundred Eighty-Six Dollars and Ninety-Eight Cents (\$175,786.98) for Phase I of the Design Engineering Services. CONSULTANT'S fees and method of compensation shall be based on an Hourly Not to Exceed Basis or other method mutually agreeable to both parties at the time services are requested in accordance with provisions described in **APPENDIX B: CONSULTANT FEE SCHEDULE** (33 pages) and **APPENDIX B-1: FEE SCHEDULE FOR APPENDIX A-1: ADDITIONAL SCOPE OF WORK** (6 pages), attachments to this Contract."

TO: "In consideration of the services specified in this Contract, the DISTRICT agrees to pay CONSULTANT as follows: Not To Exceed Four Hundred Eight Thousand Two Hundred Eleven Dollars and Thirteen Cents (\$408,211.13) for Phase I and Phase II of the Design Engineering Services. CONSULTANT'S fees and method of compensation shall be based on an Hourly Not to Exceed Basis or other method mutually agreeable to both parties at the time services are requested in accordance with provisions described in **APPENDIX B: CONSULTANT FEE SCHEDULE** (33 pages), **APPENDIX B-1: FEE SCHEDULE FOR APPENDIX A-1: ADDITIONAL SCOPE OF WORK** (6 pages), and **APPENDIX B-2: FEE SCHEDULE FOR PHASE II SERVICES** (1 page), attachments to this Contract."

ATTACH APPENDIX B-2: FEE SCHEDULE FOR PHASE II SERVICES (1 page).

This Amendment shall be effective on September 3, 2013.

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.

APPROVED:

Chair, Board of Directors

Date

CONSULTANT:


Signature

William D. Schlesinger, Principal
Name and Title (Please Print)

8/14/13
Date

ATTEST:

Clerk of the Board

Date

APPROVED AS TO FORM:


Deputy County Attorney

HAL GILBREATH

Name (Please Print)

8.13.13
Date



510 E. 4th Street
Tucson, AZ 85705
(520) 405-7353 tel
bill@schlesingerce.com

Contract Modification No. 2
Scope of Work
Design Engineering Services for
Canada Del Oro Pathway: La Cholla to La Canada (5CDOLL)

During the term of this Agreement, the engineering consultant team of SCHLESINGER CONSULTING ENGINEERING, PLLC, AND VARIOUS SUBCONSULTANTS (CONSULTANT TEAM) shall perform professional services for the Pima County Regional Flood Control District in connection with the above referenced project. This scoping document shall be used to plan, conduct, and complete the CONSULTANT TEAM's work on the project.

I. BACKGROUND

The CONSULTANT TEAM shall complete the design of a new urban bicycle loop along the Canada Del Oro Wash between La Cholla Boulevard and La Canada Drive. The new 1.6 mile path will connect two recently completed segments in Oro Valley and the Town of Marana/Pima County. The project includes a 16-foot wide, paved multi-use path, parallel eight-foot equestrian trail, an underpass at La Canada Drive, a pedestrian hybrid beacon (HAWK signal) crossing at Overton Road, and an equestrian staging area along Overton Road. The project was broken down into two (2) phases, Planning and Design. This scope of work represents the CONSULTANT TEAM's understanding of the Design phase of this project. Phase I (Planning) was completed and will be the basis for the Final Design phase.

Environmental

- **Task 1.1 Permitting**

Upon approval of the preliminary jurisdictional delineation, the CONSULTANT TEAM will determine the permanent impacts to the Waters of the United States and prepare a technical memorandum documenting those impacts. It is assumed that the impacts will result in a non-notifying Nationwide permit. See the EcoPlan Scope of work for details.

Right-of-Way

- **Task 2.1 Field Surveys**

The CONSULTANT TEAM will obtain additional field survey along Overton Road for a distance of 3200 feet. See the EEC Scope of Work for details.

- **Task 2.2 Final Right-of-Way Plans**

The CONSULTANT TEAM will finalize the Right-of-Way prepared under Phase one based upon the pathway alignment approved during that phase. The CONSULTANT TEAM shall prepare two legal descriptions. See the EEC Scope of Work for details.

Planning

All planning tasks were completed during Phase I of this project which was performed under the original contact.

Design

- **Task 4.1 Contract Administration**
It is assumed that this phase of the project will last 6 months. It is assumed that there will be no more than 6 team coordination meetings and 6 over the shoulder design meetings.
- **Task 4.2 Public Participation**
The CONSULTANT TEAM will prepare a public participation plan and assist Pima County in preparing for one public open house. Key members of the CONSULTANT TEAM will attend the open house. See the Gordley Group Scope of Work for details.
- **Task 4.3 Utility Coordination**
The CONSULTANT TEAM will assist the Pima County utility coordinator in preparing and distributing plans to the affected utilities. The CONSULTANT TEAM will attend up to 4 meetings with utilities.
- **Task 4.4 Geotechnical Report**
The CONSULTANT TEAM will perform geotechnical analysis necessary to complete the design. See the Conforma TECH Scope of Work for details.
- **Task 4.5 Drainage Report**
The CONSULTANT TEAM will perform a hydraulic analysis of proposed access ramp at La Canada Drive and other minor miscellaneous hydraulic analysis as needed. This task assumes no submittal to, or coordination with FEMA. See the JE Fuller Scope of Work for details.
- **Task 4.6 30 Percent Over the Shoulder Review**
The CONSULTANT TEAM will prepare 30 percent progress plans to be reviewed at an over the shoulder review meeting. See the AECOM Scope of Work for details.
- **Task 4.7 60 Percent Plans**
The CONSULTANT TEAM will prepare 60 percent plans, specifications and estimate based upon the over the shoulder design meetings and 30 percent over the shoulder review.. See the AECOM and Kimley-Horn Scopes of Work for details. In addition to the plan components included in the 30 percent plans, the 60 percent plans will include the following.
 - Demo and plant salvaging plan.
 - Removal of evasive species plan and special provisions.
 - Pathway connections to existing features at La Cholla (both sides of the bridge), including details for the following
 - connection with the existing paved pathway ,underpass and street sidewalk/ curb
 - drainage protection
 - pathway traffic and informational signs.
 - Pathway connections at La Canada (both sides of the bridge), including details and layout for underpass construction.
 - The Overton HAWK crossing and pavement widening, including detail for HAWK system, electrical drawings and striping plan.
 - Entrance drive to equestrian staging area.
 - The equestrian staging area consisting of a dirt parking lot. Included in the plans will be a general grading plan to remove the surface water and fence/post and cable locations. A mounting block, a ramada and informational kiosk are the only facilities that will be provided at this site.
 - Plans showing the type and location of fencing around the project area. This includes along Rancho Feliz, Overton and between the channel and pathways.
 - Culvert crossings showing footer location and elevations.
 - Restoration area planting plan with the recommended number and list of plantings to be obtained from the Native Plant nursery. This list will be needed early to give them adequate time to plan and grow the needed plants. No irrigation will be provided.

- SWPPP. SCE will produce a SWPPP at 100 scale, with details at all necessary locations. .
- **Task 4.8 90 Percent Plans**
The CONSULTANT TEAM will prepare 90 percent plans, specifications and estimate based upon the over the shoulder design meetings and 60 percent review comments. See the AECOM Scope of Work for details
- **Task 4.9 Final Plans**
The CONSULTANT TEAM will prepare Final Plans, specifications and estimate based upon the over the shoulder design meetings and 90 percent review comments. Final plans will be provided to Pima County electronically in PDF and CAD formats. See the AECOM Scope of Work for details
- **Task 4.10 Structural Design**
The CONSULTANT TEAM will prepare Final Plans, specifications and estimate for the retaining walls at the La Canada underpass and along the connection pathway along the west side of La Canada Drive. See the AECOM Scope of Work for details
- **Task 4.11 Post Design Services**
The CONSULTANT TEAM will perform post design services during construction. The CONSULTANT TEAM will attend no more than 2 field meetings and respond to more than ten RFI's. The CONSULTANT TEAM will prepare as-builts based on redlines supplied by Pima County. The as-builts will be provided to Pima County in 11"x17" bond paper format and electronically in PDF and CAD format. The CONSULTANT TEAM will review shop drawings for signals, walls and landscape components.

SCOPE OF WORK

Canada Del Oro Wash Pathway: La Cholla to La Canada PROJECT NO. 5CDOLL

Addendum No. 2

Final Design for CDO Pedestrian and Equestrian Pathways

During the term of this Agreement, the engineering consultant, AECOM, (CONSULTANT) shall perform professional services for Schlesinger Consulting Engineering (SCE) in connection with the above referenced project. This scoping document shall be used to plan, conduct, and complete the CONSULTANT's work on the project.

I. BACKGROUND

The CONSULTANT shall serve as a subconsultant to SCE on the final design of a new urban bicycle loop along the Canada Del Oro Wash between La Cholla Boulevard and La Canada Drive. The new 1.6 mile path will connect two recently completed segments in Oro Valley and the Town of Marana/Pima County. The project includes a 16-foot wide, paved multi-use path, parallel eight-foot equestrian trail, underpass at La Canada Drive, a pedestrian hybrid beacon (HAWK signal) crossing at Overton Road, and an equestrian staging area along Overton Road.

The project was broken down into two (2) phases, Planning and Final Design. This scope of work represents the CONSULTANT's understanding of their portion of the Final Design phase of this project. Phase I (Planning) was completed and will be the basis for the Final Design phase.

II. ASSUMPTIONS

The following are key assumptions used to develop this scope and the corresponding fee proposal:

- The CONSULTANT shall only be responsible for the following tasks as described in Section III Work Tasks below:
 - Task 4.1 – Project Administration
 - Task 4.7 – 60 Percent Plans
 - Task 4.8 – 90 Percent Plans
 - Task 4.9 – 100%/Final Plans
 - Task 4.10 – Structural Design and Plan Production
 - Task 4.11 – Post Design Services
- SCE will provide the CONSULTANT with the following information:
 - All required survey and mapping;
 - All required aerial mapping and photogrammetry;
 - Existing right-of-way basefile;
 - An existing digital terrain model;
 - All utility basemaps for inclusion on the existing utility basefile; and
 - All other required information compiled as part of the Planning phase of this contract.
- SCE shall be responsible for utility coordination.
- SCE shall be provide structural pavement section for pedestrian and equestrian pathways
- The Final Design phase of this project shall last for six (6) months.
- Design speed for Overton Road will be 50 mph.
- Storage lengths will be based on minimum lengths indicated in the Pavement Marking Manual prepread by Pima County. Traffic/Warrant analysis is not included in this scope.

III. WORK TASKS

Task 4.1 Project Administration

Task 4.1.1 Project Management - General administration duties will include:

- Monitor the planned versus actual rate of expenditure for each task and identify trends, taking corrective actions if necessary.
- Assess on a weekly basis the percent complete as measured against the work remaining for each task.
- Project filing.
- Project invoicing.
- AECOM Quality Management System (QA/QC)

Deliverables:

- Monthly project invoices and status reports

Task 4.1.2 Meetings – The CONSULTANT shall attend the following meetings:

- “Over-the-Shoulder” Project Review Meetings – A total of not more than four (4) meetings with two (2) attendees per meeting.

Deliverables:

- None.

Task 4.1.3 Graphics for meetings – The CONSULTANT shall prepare up to five (5) graphics 11" x 17" for coordination meetings.

Deliverables:

- 11" x 17" Displays for Meetings.

Task 4.1.4 Exhibit for Open House – The CONSULTANT shall prepare one (1) exhibit for open house 80" x 20" based on the project base files.

Deliverables:

- Exhibit for Open House.

Task 4.7 60 Percent Plans

Task 4.7.1 30% Over-the-Shoulder Review Meeting – The following element shall be reviewed, approved and finalized in a 30 percent over-the-shoulder review meeting before 60 percent begins:

- Path Alignments,
- Overton Road Widening,
- Hawk Crossing,

- Staging Area, and
- La Canada Underpass Concepts.

No work task to revise the design between 30 percent and 60 percent is included.

Plan Production – The following tasks will be completed under Plan Production:

- The 60 Percent Plan set shall include an approximate 38 sheets:
 - i. Cover Sheet (1 Sheet)
 - ii. General Notes & Legend (1 Sheet)
 - iii. Details (3 sheets)
 - iv. Plan & Profile Sheets (25 sheets)
 - 1. Assumed to be no more than 10 plan view sheets
 - 2. Assumed to be no more than 15 profile view sheets for paved and equestrian paths
 - v. Staging Area (1 Sheet)
 - vi. Auxiliary Lanes on Overton Rd (3 sheets)
 - vii. Pavement Markings and Signing Sheets (2 Sheets)
 - viii. HAWK crossing (2 Sheets)

The CONSULTANT shall address and resolve comments. Comments will be documented in a comment resolution form and given to SCE.

Deliverables:

- PDF of 60 Percent Plans.

Task 4.7.2 Cost Estimate – The CONSULTANT shall prepare a 60 Percent Cost Estimate.

Deliverables:

- 60 Percent Cost Estimate.

Task 4.8 90 Percent Plans

Task 4.8.1 Plan Production – No new details will be added only refinements to details included in 60 percent submittal. The CONSULTANT shall prepare 90 Percent Plans. The following tasks will be completed under Plan Production:

- The CONSULTANT shall generate 90 Percent Plans for the final. The 90 Percent Plan set shall include an approximate 39 sheets:
 - i. Cover Sheet (1 Sheet)
 - ii. General Notes & Legend (1 Sheet)
 - iii. Details (3 sheets)

- iv. Plan & Profile Sheets (25 sheets)
 - 1. Assumed to be no more than 10 plan view sheets
 - 2. Assumed to be no more than 15 profile view sheets for paved and equestrian paths
- v. Staging Area (1 Sheet)
- vi. Auxiliary Lanes on Overton Rd (3 sheets)
- vii. Pavement Markings and Signing Sheets (3 Sheets)
- viii. HAWK crossing (2 Sheets)

The CONSULTANT anticipates a total count of 39 sheets. The CONSULTANT shall address and resolve comments that will be documented in a comment resolution form and given to SCE.

Deliverables:

- PDF of 90 Percent Plans.

Task 4.8.2 Cost Estimate – The CONSULTANT shall prepare a 90 Percent Cost Estimate.

Deliverables:

- 90 Percent Cost Estimate.

Task 4.8.3 Special Provisions – The CONSULTANT shall prepare a 90 Percent Special Provisions.

Deliverables:

- 90 Percent Special Provisions.

Task 4.9 Final Plans

Task 4.9.1 Plan Production – The CONSULTANT shall prepare Final Plans. The following tasks will be completed under Plan Production:

- The CONSULTANT shall generate Final Plans at a scale of 1"=40'. The final plan set shall include:
 - i. Cover Sheet (1 Sheet)
 - ii. General Notes & Legend (1 Sheet)
 - iii. Details (3 sheets)
 - iv. Plan & Profile Sheets (25 sheets)
 - 1. Assumed to be no more than 10 plan view sheets
 - 2. Assumed to be no more than 15 profile view sheets for paved and equestrian paths
 - v. Staging Area (1 Sheet)
 - vi. Auxiliary Lanes on Overton Rd (3 sheets)
 - vii. Pavement Markings and Signing Sheets (3 Sheets)
 - viii. HAWK crossing (2 Sheets)

The CONSULTANT anticipates a total count of 39 sheets. The CONSULTANT shall address and resolve comments that will be documented in a comment resolution form and given to SCE.

Deliverables:

- Mylar of cover sheet and final PDF of plan sheets. Also, CAD files will be provided.

Task 4.9.2 Cost Estimate – The CONSULTANT shall prepare a cost.

Deliverables:

- Final Cost Estimate.

Task 4.9.3 Special Provisions – The CONSULTANT shall prepare special provisions for the final.

Deliverables:

- Sealed Special Provisions.

Task 4.10 Structural Design and Plan Production

Task 4.10.1 Structural Design – Duties will include:

- Design calculations, quantities and estimates for up to 200 feet of pedestrian path on the river side of the path crossing under La Canada. This path includes a concrete slab path attached to the CSA bank and non-standard retaining wall to retain fill along the top of the bank to the south. This portion of the path requires partial removal of the existing CSA bank.
- Laying out up to 300 feet of ADOT Standard retaining walls in plan and elevation views (no design), and producing approximate quantities and estimates. These retaining walls are assumed to run along the west side of La Canada from the pedestrian path to the south. This is to provide a connection between the pedestrian path and the sidewalks along the west side of La Canada. ADOT Standard retaining walls along the east side of La Canada that perform a similar function will be included if necessary, but are not anticipated.
- Four reinforced concrete footing designs for a prefabricated ramada (the ramada is assumed to be approximately 10'x10' in plan area. Ramada post-to-footing connection will be provided to the CONSULTANT prior to footing design. SCE to provide ramada structure type and associated details).

Deliverables:

- Performance Specifications for a prefabricated ramada (structural only; no architectural or electrical specifications).
- Cost estimates.

Task 4.10.2 Plan Production – The CONSULTANT shall prepare final construction plans to be included as a part of the final CDO Pathway (5CDOLL) plan set. The following tasks will be completed under Plan Production:

- Generate 60%, 90%, 100%, final sealed plans – The CONSULTANT shall generate plans for the final horizontal and vertical alignments. Final construction plans and all submittals shall be provided to SCE in a PDF format for incorporation into the final CDO Pathway (5CDOLL) plan set. The plan set submittals shall include:
 - i. Pathway Detail Sheets (Assumed to be no more than 2 plan sheets. The actual sheet count will be a function of the final geometry).
 - ii. Retaining Wall Sheets (Assumed to be no more than 3 Plan Sheets. The actual sheet count will be a function of the final geometry and soil conditions. It is assumed that the existing soils will support ADOT Standard retaining walls).
 - iii. Prefabricated Ramada Footing Detail Sheets (Assumed to be no more than 1 plan sheet).

Deliverables:

- 60%, 90%, and Final Sealed Plans.

Task 4.11 Post Design Services

Task 4.11.1 Field Meetings – The CONSULTANT shall attend a total of not more than two (2) meetings in the field.

Deliverables:

- None.

Task 4.11.2 Respond to RFIs – The CONSULTANT shall respond up to 6 (six) RFIs.

Deliverables:

- Memorandum documenting the RFIs.

Task 4.11.3 As-built Preparation – The CONSULTANT shall prepare as-built drawings for the paved path, D.G. path, staging area and auxiliary lanes on Overton Road. It is assumed that there will not be more than ten (10) plan revisions that will require as-built drawings.

Deliverables:

- As-built Drawings in PDF and hard (bond) format

Task 4.11.4 Retaining Walls Submittals – The CONSULTANT shall review submittals for reinforcing shop drawing for retaining walls.

Deliverables:

- Memorandum documenting reviews

IV. EXCLUSIONS

1. Field survey.
2. Right-of-way survey.

3. Utility Design Services.
4. No Cross-Sections
5. Traffic Analysis.
6. Traffic warrants for the Overton Pedestrian Crossing.
7. Ramada design.
8. Drainage analysis or design.
9. Vehicular, pedestrian and bicycle counts.
10. Public meeting participation.
11. Pavement Design.
12. Any other service not specifically included in this scope of work.



EcoPlan Associates, Inc.
Environmental Science & Resource Economics

June 12, 2013

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

RE: Canada Del Oro Wash Pathway
La Cholla to La Canada
Eco No: 12-430 Amendment 1

Dear Mr. Schlesinger:

EcoPlan Associates, Inc. is pleased to submit this proposal for continuing environmental services for the above-referenced project. The services provide Clean Water Act permitting documentation in support of Phase 2 project activities.

We have included a detailed scope of work, assumptions and cost estimate in this proposal for your review and approval. We estimate the cost of our services will be \$4,354.00. Invoices will be submitted monthly for work completed to date. Terms for payment are net 30 days.

Please contact Mike Dawson at 520-624-4326, extension 177 or me 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

Canada Del Oro Wash Pathway La Cholla to La Canada EcoPlan No. 12-430

Task 1. Documentation of Corps of Engineers Section 404 Authorization

After the U.S. Army Corps of Engineers (Corps) issues the preliminary jurisdictional delineation (PJD) for the project area, EcoPlan will overlay the project plans onto a scaled aerial photograph to determine the project's permanent impacts to Waters of the United States (Waters). Based on current project plans, it is anticipated that permanent impacts to Waters at each drainage location will not exceed 1/10th acre. Therefore, the work should qualify for Section 404 authorization under Nationwide Permit (NWP) 14 (Linear Transportation Projects) without the need to submit a preconstruction notification package (PCN) to the Corps. Previously completed Cultural Resources survey report and Biological Evaluation report indicate no impacts to cultural resources or threatened/or endangered species.

EcoPlan will prepare for client review a technical memorandum that documents the extent of project impacts to Waters and documents why the project qualifies for authorization under NWP 14 without the need to submit a PCN to the Corps.

Deliverable: Technical memorandum.

Assumptions

- Project impacts to Waters of the U.S. will not exceed 1/10th acre or otherwise trigger the requirement to prepare a preconstruction notification to submit to the Corps.
- No site visits are necessary.
- EcoPlan will be provided a digital copy of the PJD submittal so that PJD graphics that are also appropriate for use in the technical memorandum do not need to be recreated.
- Draft documents will be provided for review in electronic format only. The client will review each draft document once and any revisions will require no more than 4 hours per submittal.

CDO La Cholla to La Canada

Scope of Work – Phase II

Kimley Horn & Associates
June 25, 2013

The CDO is identified as a 100' wide 1.6 mile long multi-modal corridor that will integrate rain water harvesting, low impact design, and habitat restoration. Design will be based on use-zones which define "activity compatibility", such as locating equestrian areas separate from bicyclists because of speed conflicts, and designing group recreation areas separate from wildlife viewing areas because of activity and noise conflicts. Connectivity with area trails will be designed emphasizing multiple-uses and buffers and continuity of materials and aesthetics.

Task 4.1 Project Administration

KHA will attend up to five (5) team meetings. It is anticipated that a kick-off meeting will be held in addition to a meeting in preparation for each submittal. KHA will also manage project invoicing, internal staffing resources and will provide quality control throughout the project.

Deliverable:

Involvement in up to five (5) team meetings.

Tasks 4.2 – 4.6 Not Included

Task 4.7 60% Plans

KHA will prepare 60% landscape construction plans based on the preliminary design prepared for the Final Design Concept Report. Landscape plans will include the restoration of the disturbed DOT stockpile, the removal of invasive plant species, the location and type of fencing installed as part of this project and the planting of native vegetation within 20'-0" of both sides of the pathways. It is anticipated that the plantings will be provided in the form of tall pots from the Pima County Native Plant Nursery. An automatic irrigation system will not be provided; however KHA will provide water harvesting areas within the project and will determine a truck-watering schedule to promote the survival of the landscape materials.

As part of the 60% plan task, KHA will evaluate the project site for native plants in compliance with the Native Plant Preservation Ordinance, Chapter 18.75 of the Land Use Code. This NPPO task will include an on-site inventory of all native plant material and the preparation of the native plant preservation plans for any existing plant material as required. Any disturbed regulated riparian areas will be mitigated as required by Ordinance PC2005- FC2 and Chapter 16.30.050.

Deliverable:

1. Native Plant Preservation Plans (40 Scale, Estimated Number of Sheets: 8)
2. 60% Landscape Plans, including Planting Details (40 Scale, Estimated Number of Sheets: 8)
3. 60% Cost Estimate
4. 60% Special Provisions

Task 4.8 90% Plans

KHA will prepare 90% landscape construction plans based on feedback received from the 60% plan submittal.



Deliverable:

1. Native Plant Preservation Plans (40 Scale, Estimated Number of Sheets: 8)
2. 90% Landscape Plans, including Planting Details (40 Scale, Estimated Number of Sheets: 8)
3. 90% Cost Estimate
4. 90% Special Provisions

Task 4.9 Final Plans

KHA will prepare Final landscape construction plans based on feedback received from the 90% plan submittal.

Deliverable:

1. Native Plant Preservation Plans (40 Scale, Estimated Number of Sheets: 8)
2. Final Landscape Plans, including Planting Details (40 Scale, Estimated Number of Sheets: 8)
3. Final Cost Estimate
4. Final Special Provisions

Task 4.10 Post Design Services

KHA will review up to four (4) Requests for Information from the Contractor for the Landscape Plan portions of the project. KHA will provide up to three (3) field observations of the landscape portions of the project.

Deliverable:

1. Punch List (Preliminary and Final)

16 July 2013
CTEC Proposal No. TG 16 06 06

Schlesinger Consulting Engineering, PLLC
510 East 4th Street
Tucson, Arizona 85705

Attn: William D. Schlesinger, PE
Project Manager

Re: Pedestrian Pathway, Ramada and Overton Road Widening
La Canada Drive to La Cholla Boulevard at the Canada Del Oro Wash
Oro Valley/Pima County, Arizona

In response to your request, our proposal for providing pavement section design, foundation design recommendations and earthwork recommendations for the referenced project site is presented herein. Our understanding of the details of the project upon which the proposal is based, the proposed scope of work, fees, contractual terms and schedule are given in the following sections.

1.0 PROJECT DESCRIPTION

A paved pedestrian pathway (approximately 1.5 miles in length) will be constructed running from near the intersection of Linda Vista Drive and La Canada Drive to near the intersection of La Cholla Boulevard and Hardy Drive. Short retaining walls will be constructed along the pathway at the Canada del Oro Wash. A small ramada will be constructed on the pedestrian pathway midway between La Cholla Drive and La Canada Boulevard. A staging area with an access road are planned on the west side of the site. Overton Road near the Canada del Oro Wash crossing will be widened for approximately 1,000 feet to allow for new turn lanes.

2.0 SCOPE OF WORK

2.1 FIELD WORK

2.1.1 Mobilization & Demobilization

We plan to mobilize and demobilize CTEC field personnel, a truck-mounted two wheel drive drill rig, a backhoe and an auxiliary vehicle(s) to and from the project site.

2.1.2 Boring and Test Pit Locations

We have assumed all boring and testing locations are accessible to a two wheel drive drilling rig. The client will provide a scaled site plan for our use in locating the borings and test locations.

ConformaTech, Inc.
1425 East Apache Park Place
Tucson, Arizona 85714

phone 1.520.573.2045
fax 1.520.573.0528

2.1.3 Soil Borings and Test Pits

Test borings will be drilled along Overton Road, at the ramada, at the staging area and along the path and staging area access road. We plan to drill a boring at the ramada, 3 along Overton Road, one boring near La Cholla Drive, one between La Cholla Drive and Overton Road, one boring at the staging area access road and one boring between the staging area and La Canada Boulevard. The borings will vary in depth from 5 to 15 feet below grade unless shallower refusal is encountered. We will perform standard penetration testing or open-end drive sampling at 5 foot intervals or less in the borings.

Some of the test boring locations may not be accessible to the drilling rig. In this event, a backhoe will be used to obtain soil samples for use in determining the design recommendations.

2.2 LABORATORY ANALYSIS

Laboratory tests would be performed as considered necessary for engineering analysis. Tests which may be necessary for the project include moisture content, density, grain-size analysis, Atterberg limits, R values, and consolidation and/or expansion.

2.3 ENGINEERING ANALYSIS & REPORT

Engineering analysis of the data collected in the field and laboratory testing would be made. Three copies of a geotechnical evaluation report would be submitted, which would include the following:

- A. Logs of test borings, a site plan showing their locations, and a description of procedures and equipment used in the exploratory program.
- B. Results of laboratory tests.
- C. A description of the geotechnical profile encountered.
- D. Recommended foundation bearing pressures or capacities, foundation depths and geometries, and criteria for design for the resistance of lateral loads at the ramada and retaining walls.
- E. Pavement recommendations for the pedestrian pathway and the widening of Overton Road.
- F. Estimated foundation settlements.
- G. Guide specifications for site grading and foundation construction.

3.0 Traffic Study

The client will provide the design traffic values for Overton Road. These values should include the annual daily traffic at the beginning and end of the design period, the types of vehicles and the percentage of vehicles in the traffic values.

4.0 FEES

Charges for the scope of work outlined above would be a lump sum of \$6,850.

This fee does not include:

- using private locators to locate below ground utilities
- pot-holing to find below ground utilities
- restoration of the land or vegetation disturbed or removed to allow for drill rig access
- repair of utilities damaged during field work or test excavating that are not properly located
- sleeving or covering overhead power lines

4.0 SCHEDULE

The field work should begin within 5 working days following your notice to proceed and the location of utilities. One working day will be required to complete the exploratory borings after the utilities have been located. The final report should be submitted about 20 working days following the start date.

Should you have any questions concerning this proposal, we would appreciate the opportunity to review and clarify. We appreciate your consideration of our firm for the geotechnical engineering services required for the project.

If the purpose, scope, schedule and fee for the geotechnical services described in this proposal are responsive to your needs on this project, please sign and return one copy of the attached Consulting Services Agreement in the space provided as an indication of your acceptance of our terms and authorization for us to proceed. Keep the second copy for your records.

Respectfully submitted,
ConformaTech, Inc.



Clyde L. Pretti P.E.
Geotechnical Engineer

Copies: Addressee (1-electronic)
File (1)



Engineering and Environmental Consultants, Inc.

4625 East Fort Lowell Road | Tucson, Arizona 85712 | Tel 520.321.4625 | Fax 520.321.0333

Revised July 16, 2013
Revised July 8, 2013
Revised June 13, 2013
June 10, 2013

Schlesinger Consulting Engineering, PLLC
Attn: Mr. Bill Schlesinger
510 E. 4th Street
Tucson, Arizona 85705

RE: CDO Phase II
EEC Proposal No. 0613-05

Dear Bill:

Per your request EEC is pleased to provide this proposal for Survey Services on the above referenced project.

PHASE II SCOPE:

- 1) EEC will order PAG Mapping for Sections 21 and 28 of Township 12 South, Range 13 East G & SRM, convert the files from Grid to Ground, and generate contours using mass points and break lines from the PAG Mapping.
- 2) EEC will complete a design survey on a 1,200 foot long section (600 feet on each side of the proposed path crossing) of Overton Road. The survey will be from right of way to right of way on 50 foot sections and will locate any planimetric data. A design survey will also be completed of the proposed mobilization area at Overton Road. A surface will be created and 1 foot contours will be generated. A Results of Survey will be provided electronically along with an ASCII file.
- 3) The preliminary Right of Way Plan prepared under Phase I will be finalized, submitted to Pima County Survey for their review and after any necessary changes/revisions are made the Right of Way Plan will be recorded.
- 4) Intentionally deleted.
- 5) EEC will prepare two Legal Descriptions and sketches for new right-of-way acquisitions along Overton Road. The new acquisitions will be reviewed by PCDOT/Survey and will be staked in the field with tagged iron pins. The acquisitions will be added to the Right-Of-Way Plan.

COST:

- 1) *PAG Mapping*
CDs from Pima County \$ 224.00
CADD 5hrs @ \$77.22 \$ 386.10

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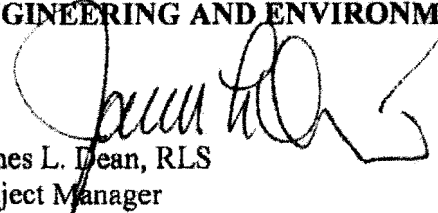
Revised July 16, 2013
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Revised June 13, 2013
June 10, 2013
Schlesinger Consulting Engineering, PLLC
CDO Phase II
EEC Proposal No. 0613-05
Page 2 of 2

Principal Surveyor 1hr @ \$131.30	\$ 131.30
2) <i>Design Survey</i>	
Survey Crew 24hrs @ \$155.58	\$ 3,733.92
CADD 16hrs @ \$77.22	\$ 1,235.52
Principal Surveyor 8hrs @ \$131.30	\$ 1,050.40
3) <i>Right of Way Plan</i>	
CADD 24hrs @ \$77.22	\$ 1,853.28
Principal Surveyor 12hrs @ \$131.30	\$ 1,050.40
Recording Fees (approximately)	\$ 75.00
4) <i>Intentionally deleted.</i>	
5) <i>Two Legal Descriptions and Sketches</i>	
Principal Surveyor 8hrs @ \$131.30	\$ 1,050.40
Survey Crew 8hrs @ \$155.58	\$ 1,244.64
CADD 8hrs @ \$77.22	\$ 617.76
Clerical 4hrs @ \$43.96	\$ 175.84
TOTAL	\$12,828.56

If you have any questions or require any additional information, please give me a call at 321-4625.

Sincerely,

ENGINEERING AND ENVIRONMENTAL CONSULTANTS, INC.



James L. Dean, RLS
Project Manager

SCOPE OF WORK

Schlesinger Consulting Engineering

Pima County Regional Flood Control District, CDO Path: La Cholla to La Cañada (SCDOLL)

Phase II

June 7, 2013

BASIC SERVICES

Contact

- Assist with general public participation plan and strategy.

Open House

- Assist with up to one open house. Services to include:
 - Assist with open house plan.
 - Design and produce up to six display boards in support of the open house.

This scope assumes no major opposition to the project and a five-month duration for Phase II. If assumptions made in this scope prove incorrect, additional work may be added through a Change Order.

APPENDIX B-2: FEE SCHEDULE FOR PHASE II SERVICES



SCHLESINGER CONSULTING ENGINEERING, PLLC

Project: Canada Del Oro Pathway: La Cholla to La Canada (5CDOLL)

Contract Modification 2

Client: Pima County Regional Flood Control District

510 E 4th Street

Tucson, AZ 85705

(520) 405-7353

bill@schlesingerce.com

Date: July 8, 2014

Labor

Category	Labor Rate	Hours	Total Labor
Project Principal	\$50.00	22	\$1,100.00
Project Engineer	\$35.00	242	\$8,470.00
Designer/Drafter	\$25.00	88	\$2,200.00
Clerical	\$18.00	6	\$108.00

Total Labor Cost	\$11,878.00
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<u>Overhead and Profit</u>	Rate (Percent)	Total
Overhead	125	\$14,847.50
Profit	10	\$2,672.55

Total Overhead & Profit Cost	\$17,520.05
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Direct Costs

Travel	\$0.00
Plotting	\$250.00
Reproductions	\$200.00

Total Direct Cost	\$450.00
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Subconsultants

AECOM	\$126,173.00
Ecoplan	\$4,354.00
Kimley-Horn Associates	\$40,814.00
Conforma Tech	\$6,850.00
EEC	\$12,828.56
JE Fuller	\$8,556.54
Gordley Group	\$3,000.00

Total Subconsultant Cost	\$201,576.10
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Total Fee	\$117,424.15
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