



EXHIBIT A4. ADDITIONAL SERVICES FOR AMENDMENT NO. 4

PHASE II. DESIGN AND CONSTRUCTION DOCUMENTS

The Project requires a qualified civil engineering consultant (ENGINEER) to provide professional services to complete the design of the preferred drainage solution identified in the Preliminary Design Report (PDR) and determined during the initial phase of work for the project. Based on conversations with the COUNTY, the following scope of work is based on Alternate 3 (Exhibit C attached) presented in the PDR. The COUNTY anticipates making one milestone design revision to account for Oceano Airport runway protection zone requirements, water quality / treatment criteria from regulatory agencies, and COUNTY storm water manager requirements.

The ENGINEER shall participate in inter-agency coordination/meetings, complete a final hydraulic study/design report, prepare final construction plans, technical specifications, bid item list and construction cost estimate for the installation of the recommended drainage facilities to alleviate the drainage issues along Highway 1 at 13th/Paso Robles St. in Oceano.

The ENGINEER shall also provide easement documents for acquiring the required property for the proposed project which includes permanent easement figures and legal descriptions for necessary land acquisitions, temporary construction easement figures for each impacted parcel, and exhibits to obtain a Union Pacific Railroad Crossing Permit.

The ENGINEER shall also be available for addressing Caltrans comments on plans to secure State Encroachment Permit, bid period assistance and construction support.

Listed below are the tasks and descriptions to be performed by the ENGINEER.

TASK 9 – KICK-OFF MEETING

ENGINEER will coordinate and attend a project kick-off meeting with COUNTY staff. The meeting agenda will focus on project understanding, team involvement, and project constraints. This meeting will include a project introduction, review of background information and project scope and an overview of the project schedule. This meeting represents a key opportunity for representatives from the COUNTY to steer the project team and further clarify critical elements of the project scope.

Administrative Assistant will prepare kickoff meeting materials and write-up of meeting minutes.

Task 9 Deliverables:

- Coordinate and Attend Project Kick-Off Meeting

TASK 10 – DESIGN LEVEL TOPOGRAPHIC AND BOUNDARY SURVEYS

In order to provide detailed design, ENGINEER will supplement our previous base mapping performed during the preliminary design report phase. ENGINEER will confirm elevations, inverts where applicable, and accurately locate above ground utility vaults, wells, and other structures that may need relocation based on the final design. Pertinent site features necessary for the design will be included in sufficient detail to allow for construction and concise cost estimating.

The topographic survey will include the following information:



- Horizontal locations and elevations based on California State Coordinate System and Sea Level Vertical Datum
- Contours represented with 5-foot index and 1-foot intermediate
- Existing Hwy 1, Ocean St, and 15th St roadway features, including curb lines, edges of pavement, edges of sidewalk, curb returns, and curb ramps 200-feet beyond the Hwy 1/Ocean St intersection
- 100-foot width strip centered along the proposed storm drain alignment
- Spot elevations at approximately 100-foot grid and perimeter intervals over the RV Storage Lot
- 60-foot width strip along Delta St from Ocean St to the existing gate
- Existing roadway features at locations of Road Side Infiltrators
- Field measurements of existing surface improvements, surface utilities, trees, and other such objects will be made as needed to supplement the previous base mapping

In preparation for easement acquisition and to define the location of lines of title affecting design, ENGINEER will prepare a boundary survey along the storm drain alignment. ENGINEER will collect record boundary evidence from various public agencies including, but not limited to assessor's maps, records of surveys and deeds, and conduct a field survey to collect measured boundary evidence in the vicinity of the project. This will include existing survey monumentation and land occupation evidence. Based on this boundary evidence, existing easements and lines of title affecting the project will be plotted in relation to topographic and design information. ENGINEER will obtain Title Reports prior to commencement of this task.

Task 10 Deliverables:

- Topographic and Boundary Survey – 1 full size hard copy, PDF format, AutoCAD format
- Title Reports – 1 hard copy and PDF format

TASK 11 – DESIGN LEVEL GEOTECHNICAL INVESTIGATION

ENGINEER will retain the services of Earth Systems Pacific to prepare a soils evaluation report for the project. The report will include recommendations for grading and drainage, storm drain pipe bedding and backfill requirements, and suitability of existing soils for use in subsequent trench backfill. Other important information gathered will be depth to groundwater (if applicable) and thickness of existing pavement sections. This evaluation will provide valuable information for project design as well as for prospective contractors bidding the construction phase of the project.

Task 11 Deliverables:

- Soils evaluation report - 2 signed copies and PDF format

TASK 12 – MILESTONE DESIGN REVISION

It is anticipated that the COUNTY will request one milestone revision to Alternative 3 (Exhibit C attached) based on comments for Oceano Airport runway protection zone requirements, water quality/treatment criteria from regulatory agencies, and COUNTY storm water manger requirements. This design revision will be approved by the COUNTY prior to preparing the 50% plans. ENGINEER shall not commence any milestone design revision work prior to written COUNTY authorization. Revisions occurring early in the 50% design phase may be considered part of the normal design work.



Task 12 Deliverables:

- One Milestone Design Revision to Alternative 3

COUNTY Provided Items:

- Approval of Milestone Design Revision

TASK 13 – PREPARE 50% PLANS, SPECIFICATIONS, AND COST ESTIMATE (PS&E)

ENGINEER will submit a Design Plan Package at a design and detail level at approximately 50 percent of the anticipated final construction documents for COUNTY review and comment. Design package will include 50% plans, outline of Technical Specifications Table of Contents and cost estimate.

The plans will consist of approximately 22 drawing sheets (24" x 36"). The plans shall include a Title Sheet, Notes and Legend Sheet, as well as sheets containing the Demolition Plan, Detention Basin Plan, Storm Drain Plan and Profile drawings, Surface Improvements Plan, Grading Plan, and Civil and Structural Details.

Monthly status updates will be provided to the COUNTY via phone call and in written form with monthly invoices.

Task 13 Deliverables:

- 50% Design Plans – 8 sets full size, 8 sets half size, and PDF format
- Outline/Table of Contents of Technical Specifications – PDF and Word format (Caltrans format)
- 50% Cost Estimate – Excel and PDF format
- Draft Hydraulic Study/Design Report – 2 hard copies, PDF format
- Monthly Status Updates

COUNTY Provided Items:

- COUNTY General Provisions – PDF sample for T.O.C. Development
- Pothole Utility Conflicts and Provide Information to ENGINEER

TASK 14 – 50% DESIGN REVIEW MEETING

ENGINEER will attend one meeting with the COUNTY staff to review and discuss the design submittal at the 50% completion stage.

Administrative Assistant will prepare meeting materials and write-up of meeting minutes.

Task 14 Deliverables:

- Attend meeting with COUNTY

COUNTY Provided Items:

- Comment on 50% PS&E
- Comment on 50% PS&E for Environmental Regulatory Agency, NPDES Program and Caltrans Requirements/Criteria (after PEER review)
- CEQA Environmental Mitigation Requirements for PS&E
- Coordination with Utility Providers for Utility Relocations



TASK 15 – PREPARE 95% PLANS, SPECIFICATIONS, AND COST ESTIMATE

Based on the feedback from the previous tasks, ENGINEER will prepare a 95% Design Plans Package for review and comment. This submittal package will include the construction plans and details, technical specifications, bid item list, and a cost estimate for use in the public bidding process and in accordance with the COUNTY's bidding procedure.

Task 15 Deliverables:

- 95% Design Plans – 2 sets full size, 2 sets half size, and PDF format
- Draft Technical Specifications – PDF and Word format
- Bid Item List and Cost Estimate – PDF format
- Caltrans Encroachment Permit Submittal – 6 sets full size
- Monthly Status Updates

TASK 16 – 95% DESIGN REVIEW MEETING

ENGINEER will attend one meeting with the COUNTY staff to review and discuss the design submittal at the 95% submittal stage.

Administrative Assistant will prepare meeting materials and write-up of meeting minutes.

Task 16 Deliverables:

- Attend meeting with COUNTY

COUNTY Provided Items:

- Comment on 95% PS&E
- Comments from Caltrans and other Regulatory Agencies on 95% PS&E
- Comments from Caltrans Encroachment Permit Submittal

TASK 17 – PREPARE FINAL PLANS, SPECIFICATIONS, AND COST ESTIMATE

Based on the finalized project design issues resolved during the preceding tasks, ENGINEER will prepare and submit a Final Construction Documents Bid package. This submittal package will contain complete Construction Plans on permanent drawing medium (Mylar film) and an Opinion of Probable Construction Costs. The plans will incorporate review comments of the 95% Design Plans Package, and provide construction level designs and technical specifications sufficient for final project approvals.

As stated in the RFP, the COUNTY will prepare the final bid package, including the General Provisions, final bid forms and Agreement.

Task 17 Deliverables:

- Final Design Plans – 6 sets full size (signed), PDF format, AutoCAD format
- Final Technical Specifications – PDF and Word format
- Bid Item List and Cost Estimate – Excel and PDF format
- PS&E for Caltrans Encroachment Permit – 6 hard copies
- Final Hydraulic Study/Design Report – 2 signed hard copies, PDF format
- Assistance for PEER Evaluation
- Monthly Status Updates



TASK 18 – UNION PACIFIC RAILROAD CROSSING PERMIT

ENGINEER will assist the COUNTY in preparing exhibits necessary to obtain a crossing permit from Union Pacific Railroad. The final PS&E will meet Union Pacific Railroad “Pipeline Installation Engineering Specifications”.

Task 18 Deliverables:

- Exhibit preparation

TASK 19 – LEGAL DESCRIPTIONS AND EXHIBITS

ENGINEER will assist the COUNTY in the acquisition of easements to accommodate the construction activities for the project by preparing Legal Descriptions and Exhibits. From the Preliminary Design Report, ENGINEER estimates that three legal descriptions and exhibits for construction easements will be needed for this project. Additional legal descriptions and exhibits requested by the COUNTY for construction easements will be provided on a time and materials basis or as an addendum to this proposal. Draft easement documents will be submitted to the COUNTY at 30% design to begin negotiations with property owners.

ENGINEER will assist the COUNTY in the acquisition of permanent easements following project completion. Alignments of the storm drain and locations of appurtenances deviating from Design Plans during construction will be located and mapped. In areas where deviations are minimal, improvement plan information will be used. From these efforts, legal descriptions and exhibits will be prepared defining the installed infrastructure locations for use in acquiring permanent easements for the project.

Task 19 Deliverables:

- Legal Descriptions and Exhibits – Three (3) total

TASK 20 – TECHNICAL MEETINGS

ENGINEER will attend one project site meeting and one design review meeting at the request of the COUNTY.

Task 20 Deliverables:

- Attend two meetings at the COUNTY’s request.

PHASE III. CONTRACT BIDDING ASSISTANCE

TASK 21 – CONTRACT BIDDING ASSISTANCE

With respect to interpreting the plans and technical specifications, ENGINEER will assist the COUNTY during the bid period. Upon request of the COUNTY, ENGINEER will interpret bid documents for prospective bidders, provide responses to COUNTY for up to four requests for information (RFI) and prepare and deliver to COUNTY up to two addenda.

Task 21 Deliverables:

- Respond to RFI – Four (4) total
- Prepare Addenda – Two (2) total



PHASE IV. CONSTRUCTION SUPPORT SERVICES

TASK 22 - CONSTRUCTION SUPPORT SERVICES

The COUNTY is requesting construction phase support services on a limited basis for the installation of the proposed drainage improvements. ENGINEER shall not perform any construction support services without written COUNTY authorization.

ENGINEER will provide construction support services as defined below.

- Attend key construction meetings (4 included);
- Prepare minor plan revisions and/or clarifications during construction (4 included). Fee does not include "major plan revision." Major plan revisions defined as design modifications effecting more than one plan sheet. Major plan revisions will be provided as an addendum to this proposal.

Task 22 Deliverables:

- Attend Key Construction Meetings – Four (4) total
- Plan Revisions – Four (4) total

ASSUMPTIONS AND EXCLUSIONS

The following assumptions and exclusions apply to this proposal:

- ENGINEER is not responsible and cannot be held accountable for the accuracy of As-Builts or Record Drawings provided by the Agencies or utility providers. ENGINEER has no means of determining whether subsurface features were constructed per the construction / improvement drawings and does not claim to do so. Pot holing of utilities should be performed by others, if there are concerns or uncertainties regarding the subsurface utilities.
- This proposal assumes that all data prepared by others and provided to ENGINEER will be made available in a digital format, compatible with our systems. It is also understood that the information and technical data provided and prepared by others, on the Client's behalf or Property Owner's behalf, may be used by ENGINEER in performing its services and is entitled to rely upon the accuracy and completeness thereof.
- Mapping will be based on available Caltrans and/or local agency horizontal and vertical datum.
- Dry utility coordination and relocation design and plans will be prepared by others.
- Right-of-way documents will be limited to legal descriptions and exhibits to accompany the grant documents.
- Permit Fees will be paid for by COUNTY.
- CEQA, Environmental Permitting, Archeological, botanical, biological and landscaping services will be prepared by others.
- Preparation of Stormwater Pollution Prevention Plans, Erosion Control Plans, and processing of NPDES Stormwater Permits will be prepared by others.
- Fee and processing of Union Pacific Railroad Crossing Permit will be provided by COUNTY.
- Negotiations for land acquisition will be provided by COUNTY.



**EXHIBIT B4. FEE PROPOSAL
FINAL DESIGN AND CONSTRUCTION SUPPORT SERVICES FOR
OCEANO DRAINAGE IMPROVEMENT PROGRAM
SAN LUIS OBISPO COUNTY**

		Cannon												Earth Systems Pacific	Total						
		Senior Principle Engineer		Associate Engineer		Design Engineer		Administrative Assistant II		Chief Surveyor		Survey Tech V		GPS1/2	Geotechnical Investigation						
		\$180		\$140		\$110		\$70		\$160		\$120		\$200		Lump Sum					
Phase	Hourly Rate (Overtime will be computed at 1.5 x hour)	Task	Subtask	Description	Hrs	Cost	Hrs	Cost	Hrs	Cost	Hrs	Cost	Hrs	Cost	Hrs	Cost	Cost	Hrs	Cost		
II	Design and Construction Documents																				
	9			Kick off Meeting	4	\$720	8	\$1,120		\$0	4	\$280		\$0		\$0		\$0	16	\$2,120	
	10			Design Level Topographic and Boundary Surveys		\$0	4	\$560		\$0		\$0	48	\$7,680	60	\$7,200	20	\$4,000	132	\$19,440	
	11			Design Level Geotechnical Investigation		\$0	8	\$1,120		\$0		\$0		\$0		\$0		\$11,000	8	\$12,120	
	12			Milestone Design Revision	16	\$2,880	40	\$5,600	20	\$2,200		\$0		\$0		\$0		\$0	76	\$10,680	
	13			Prepare 50% Plans	16	\$2,880	60	\$8,400	80	\$8,800		\$0		\$0		\$0		\$0	156	\$20,080	
	14			50% Design Review Meeting	4	\$720	4	\$560		\$0	4	\$280		\$0		\$0		\$0	12	\$1,560	
	15			Prepare 95% Plans, Specifications and Cost Estimate	24	\$4,320	100	\$14,000	120	\$13,200		\$0		\$0		\$0		\$0	244	\$31,520	
	16			95% Design Review Meeting	4	\$720	4	\$560		\$0	4	\$280		\$0		\$0		\$0	12	\$1,560	
	17			Prepare Final Plans, Specifications and Cost Estimate	20	\$3,600	70	\$9,800	100	\$11,000		\$0		\$0		\$0		\$0	190	\$24,400	
	18			Union Pacific Railroad Crossing Permit	4	\$720	16	\$2,240	4	\$440		\$0		\$0		\$0		\$0	24	\$3,400	
19			Legal Descriptions and Exhibits		\$0		\$0		\$0		\$0	24	\$3,840	24	\$2,880	8	\$1,600	56	\$8,320		
20			Technical Meetings (2 Total)	12	\$2,160	12	\$1,680		\$0		\$0		\$0		\$0		\$0	24	\$3,840		
			Subtotal:	104	\$18,720	326	\$45,640	324	\$35,640	12	\$840	72	\$11,520	84	\$10,080	28	\$5,600	\$11,000	950	\$139,040	
III	Contract Bidding																				
	21	Contract Bidding Assistance																			
	21.1			Answer Contractor Questions	2	\$360	8	\$1,120	12	\$1,320		\$0		\$0		\$0		\$0	22	\$2,800	
	21.2			Attend Pre-Bid Meeting		\$0	4	\$560	4	\$440		\$0		\$0		\$0		\$0	8	\$1,000	
21.3			Prepare Addendas	2	\$360	8	\$1,120	8	\$880		\$0		\$0		\$0		\$0	18	\$2,360		
			Subtotal:	4	\$720	20	\$2,800	24	\$2,640	0	\$0	0	\$0	0	\$0	0	\$0	\$0	48	\$6,160	
IV	Construction																				
	22	Construction Support Services																			
	22.1			Attend Construction Meetings (4 Total)		\$0	16	\$2,240		\$0		\$0		\$0		\$0		\$0	16	\$2,240	
22.2			Prepare Plan Revisions During Const (4 Total)		\$0	24	\$3,360	24	\$2,640		\$0		\$0		\$0		\$0	48	\$6,000		
			Subtotal:	0	\$0	40	\$5,600	24	\$2,640	0	\$0	0	\$0	0	\$0	0	\$0	\$0	64	\$8,240	
																	REIMBURSABLES	\$4,500			
																	TITLE REPORTS	\$1,500			
Total:					108	\$19,440	386	\$54,040	372	\$40,920	12	\$840	72	\$11,520	84	\$10,080	28	\$5,600	\$11,000	1062	\$159,440

Reimbursables

COUNTY shall reimburse ENGINEER's expenses incurred in connection with this Agreement as follows:

- a) incidental and out-of-pocket expenses including but not limited to:
 - costs for postage, shipping, overnight courier, reproduction services, plotting, photocopies, computer expenses, parking fees and tolls
- b) travel expenses

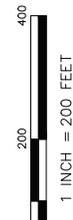
Title Reports

COUNTY shall reimburse ENGINEER's expenses incurred in connection with this Agreement as follows:

- a) purchase of three (3) title reports

LEGEND

- STORM DRAIN SD
- STORM DRAIN MANHOLE
- CURB INLET



ALTERNATIVE 3
 PREFERRED DRAINAGE SOLUTION
 COUNTY OF SAN LUIS OBISPO
 OCEANO DRAINAGE IMPROVEMENT PROJECT
 EXHIBIT C
 OCEANO, CA

DRAWN BY: KK	DATE: 03/01/2012	CA JOB NO: 100405
CHECKED BY:	SCALE: 1" = 200'	SHEET 1 OF 1

