

OFFICE OF THE CITY ATTORNEY
CHARLES PARKIN, City Attorney
411 West Ocean Boulevard, 9th Floor
Lona Beach, CA 90802-4664

FIRST AMENDMENT TO AGREEMENT NO. 36074

36074

THIS FIRST AMENDMENT TO AGREEMENT NO. 36074 is made and entered, in duplicate, as of June 3, 2022, for reference purposes only, pursuant to a minute order adopted by the City Council of the City of Long Beach at its meeting on August 10, 2021, by and between LEAN TECHNOLOGY CORPORATION, a California corporation ("Contractor"), with a place of business at 18850 Von Karman Avenue, Suite 200, Irvine, California, 92821, and the CITY OF LONG BEACH, a municipal corporation ("City").

WHEREAS, City and Contractor (the "Parties") entered into Agreement No. 36074 (the "Agreement") whereby Contractor agreed to provide engineering design services for Runway 12-30 Electrical Improvements Project at the Long Beach Airport; and

WHEREAS, the Parties desire to amend the Agreement to attach an additional scope of work and add \$163,255 for a total not to exceed amount of \$589,467;

NOW, THEREFORE, in consideration of the mutual terms, covenants, and conditions herein contained, the Parties agree as follows:

1. Section 1.A of the Agreement is hereby amended to read as follows:

"A. Contractor shall furnish specialized services more particularly described in Statement for Qualifications Number AP21-054, attached to the Agreement as Exhibit "A-2" and incorporated by this reference; and more particularly described in the Scope of Work, attached to the Agreement as Exhibit "A-3" and the First Amendment as Exhibit "A-4", all incorporated by this reference, in accordance with the standards of the profession, and City shall pay for these services in the manner described below, not to exceed Five Hundred Eighty-Nine Thousand Four Hundred Sixty-Seven Dollars (\$589,467), at the rates or charges shown in Exhibit "B"."

2. The Scope of Work in Exhibit "A-3" to the Agreement is hereby amended to include additional services more particularly described in Exhibit "A-4", attached hereto and incorporated by this reference.

3. Except as expressly modified herein, all of the terms and conditions

1 contained in Agreement No. 36074 are ratified and confirmed and shall remain in full force
2 and effect.

3 IN WITNESS WHEREOF, the parties have caused this document to be duly
4 executed with all formalities required by law as of the date first stated above.

5 LEAN TECHNOLOGY CORPORATION, a
6 California corporation

7 6/6/, 2022

8 By [Signature]
9 Name DORON LEAV
10 Title CEO

11 6/6/, 2022

12 By [Signature]
13 Name Carol Leav
14 Title President

15 "Contractor"

16 CITY OF LONG BEACH, a municipal
17 corporation

18 June 15, 2022

19 By dinda J. Jahum
20 City Manager

21 EXECUTED PURSUANT
22 TO SECTION 301 OF
23 THE CITY CHARTER.

24 "City"

25 This First Amendment to Agreement No. 36074 is approved as to form on

26 June 14, 2022.

27 CHARLES PARKIN, City Attorney

28 By [Signature]
Deputy

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EXHIBIT "A-4"

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*Runway 12-30 Lighting Rehabilitation
Long Beach Airport*

Scope of Services

Runway 12-30 Lighting Rehabilitation CA Support

Submitted By: Lean Technology Corporation

Work scope Items Include:

Task 1: Construction Administration Tasks:

- a. Evaluate the bids for inconsistencies and make recommendation on the validity of the bid to the Airport.
- b. Submittals. Review and evaluate Contractor Submittals.
- c. Weekly Meetings. Attend every weekly construction meeting virtually.
- d. Participate lead a base can installation workshop.
- e. Respond to RFIs and issue field Directives if needed.
- f. Coordinate with FAA for PAPI flight inspection and coordinate with the FAA for MALSR interconnectivity.
- g. Attend SMS review as a subject matter expert.
- h. Submit and develop as-built drawings
- i. Provide and lead all FAA Closeout Documentation.

Task 2 Field Investigation

- a. LEAN will provide 2 site visits during Phase 1A, 1B, and 1C collectively.
- b. Provide 3-8 hour site visits during each weekend phase.
- c. Provide one site visit during Phases 3A and 3B.

Task 3 Photometric Testing.

LEAN will provide photometric testing to verify compliance to FAA criteria for the alignment and testing of the light fixtures including R/W Edge, CTL, and TDZ.

Refer to Exhibit A for fee proposal. Refer to Exhibit B for fee and scope for LEAN's subconsultant, AECOM.

EXHIBIT A - DETAILED DERIVATION OF FEE SCHEDULE

Job Classification		LEAN TECHNOLOGY CORPORATION										LENNOX	
		D. LEAN	L. LE	P. HANNAH	J. ANDERSON	J. PENG	K. VIRZI	A. MARTINEZ	SR. ESTIMATOR	ESTIMATOR	TOTAL HRS.	SUBTOTAL LEAN	
Approved Billing Rate		\$ 284.00	\$ 213.00	\$ 260.00	\$ 192.00	\$ 160.00	\$ 128.00	\$ 90.00	\$ 197.00	\$ 142.00			
Task No.	Task Description	PM	QC/QA	SR. ENGR	SR. ENGR.	SR. ENGR.	ENGR. III	ENGR. I					
1.0	Construction Administration										446	\$91,112	
a	Evaluation of Bid	2									2	\$568	
b	Submittals	16	16	40			48				120	\$21,776	
c	Virtual Attendance of Weekly Meetings (2 Weeks Prior to Mobilization and Up to Phase 6)20 Meetings @ 2 hours per meeting w/ prep includes Pre-Con Mto.	40					32				72	\$15,456	
d	Base Can Installation Workshop	4			4						8	\$1,904	
e	Response to RFI and Issue Field Directives	40			40		80				160	\$29,280	
f	Coordinate w/ FAA For PAPI Flightcheck & MALSR Interlock Testing	4		64							68	\$17,776	
g	Attend SMS as Subject Matter Expert	8		8							16	\$4,352	
h	As-Builts	1		1			16				18	\$2,592	
i	FAA Closeout Documentation	1		1			40				42	\$5,664	
2.0	Field Investigation										72	\$17,504	
a	2 Site Visits During Phase 1A, 1B, and 1C	16			16						32	\$7,616	
b	3 Site Visits During 3 Weekend Closures (8 hrs. Per Weekend)	24									24	\$6,816	
c	1 Site Visit during Phase 3A and 1 Site Visit During Phase 3B				16						16	\$3,072	
3.0	Photometric Testing										96	\$16,096	
a	Field Testing of the Light Fixtures (RW CTL, TDZ, & PAPI)	8			8		40				56	\$8,928	
b	Submit Draft Report						40				40	\$5,120	
b	Submit Draft Report						16				16	\$2,048	
	Subtotal Hours	164	16	74	124	0	296	0	0	0			
	Subtotal Cost	\$46,576	\$3,408	\$19,240	\$23,808	\$0	\$37,888	\$0	\$0	\$0			
	TOTAL FEE										TOTAL FEE	\$130,920	

SUMMARY OF LABOR PER COMPANY

ITEM DESCRIPTION	SUBTOTAL
1.0 Total COST - Lean Technology Corporation	\$130,920
2.0 Total Cost - AECOM	\$14,782
Total Cost	\$145,702

Exhibit "A"
Scope of Services
Runway 12-30 Lighting Rehabilitation
CA Support

WORK BREAKDOWN STRUCTURE

The project will be implemented using the following work breakdown structure:

TASK 6 – CONSTRUCTION ADMINISTRATION SUPPORT SERVICES

Task 6.1 Attend Pre-Construction and Construction Meetings. Participate in construction coordination meetings by virtual on-line conference call. Assume participating in the one (1) pre-construction meeting and four (4) weekly meetings at 1.5 hours each.

Task 6.2 Responses to RFI and Submittals. Review and respond to RFI's. Assume four (4) RFI's and four (4) submittals related to AECOM's civil scope.

Task 6.3 Clarifications and Revisions to Drawings. AECOM will provide interpretation and clarification of contract drawings and revise drawings when required.

Task 6.4 Site Observation Trips and Final Inspection. Perform site visit to monitor the construction progress and observe for general conformance with the contract documents. Upon completion of construction, AECOM will also perform a final site visit and prepare a punch list of items to be corrected prior to final acceptance of the project. Assume one (1) site observations trip during paving for eight (8) hours, and one (1) final inspection trip for four (4) hours (Total of 2 trips) with travel and preparation time.

Task 6.5 Prepare Record Drawings for Civil Work. AECOM will prepare Record Drawings based on the Contractor's as-built mark-ups and after construction management team's approval. The Record Drawings will be prepared using the design drawings as the base and incorporating changes that were performed during construction. Deliverables will include one (1) set of full-sized PDF Record Drawings and electronic AutoCAD files to the Airport.

ASSUMPTIONS AND EXCLUSIONS

1. Scope is limited to coldmilling and paving two (2) asphalt strips at 3,000-ft long for replacement of the runway TDZ lights. Any other improvements are excluded.
2. Assume no permits are required for AECOM scope.
3. It is assumed the Contractor will develop the SWPPP and obtain the NOI and any necessary permits.
4. Environmental engineering, mitigation or permitting is excluded.
5. Removal or remediation of contaminated soils is excluded.
6. Assume grading or pavement elevations plans are not required.
7. Electrical Engineering is excluded.
8. Preparation of the Final Construction Report for project closeout is excluded.
9. Performing or evaluating existing topographic survey is excluded.

Long Beach Airport (LGB)
Runway 12-30 Lighting Rehabilitation - CA Support
Summary of Cost Proposal

EXHIBIT "B" - PART 1

<i>Task 6 - Construction Administration Support Services</i>			
Labor		\$14,482.00	
Expenses		\$300.00	
Subtotal			\$14,782.00
	CA Support	\$14,782.00	
	Total		\$14,782.00

Long Beach Airport (LGB)
 Runway 12-30 Lighting Rehabilitation - CA Support
 February 21, 2022
 Estimate and Hour Summary

EXHIBIT "B" - PART 2

No.	Task Description	Total Hours	AECOM							Labor Subtotal	ODCs	Total Amount
			Sr. Project Engineer	Project Manager II	Project Engineer I	CADD Designer I	Project Controls	Admin				
			\$233.00	\$232.00	\$161.00	\$102.00	\$133.40	\$104.35				
6.0	CA SUPPORT SERVICES											
6.1	Attend Pre-Construction and Construction Meetings (3 virtual mtgs)	8		8						1,856.00	-	1,856.00
6.2	Responses to RFI and Submittals (4 RFIs and 4 Submittals)	26		24	2					5,890.00	-	5,890.00
6.3	Clarifications and Revisions to Drawings	12		4		8				1,744.00	-	1,744.00
6.4	Site Observation (1 Trip) and Final Inspection (1 Trip)	16		16						3,712.00	200.00	3,912.00
6.5	Prepare Record Drawings for Civil Work	10		2		8				1,280.00	100.00	1,380.00
	Subtotal Hours Task 6 -	72	-	54	2	16	-	-	-	14,482.00	300.00	14,782.00
	Total Hours	72	-	54	2	16	-	-	-	14,482.00	300.00	14,782.00

Exhibit "A"
Scope of Services
Runway 12-30 Lighting Rehabilitation
Civil Support

WORK BREAKDOWN STRUCTURE

The project will be implemented using the following work breakdown structure:

TASK 1 – PROJECT MANAGEMENT

Task 1.1 Project Administration and Coordination. This task involves the overall management of the project to ensure compliance with the scope of services, schedule, budget, quality, and coordination of the project. Assume design period from January 2022 through February 2022 (1.5 months).

Task 1.2 Design Coordination Meetings. AECOM will participate in two (2) virtual design coordination meetings. Agenda and meeting notes will be provided by Others.

TASK 2 – FIELD INVESTIGATION AND DATA COLLECTION

Task 2.1 Site Investigations and Records Research. AECOM will perform field investigations including visual assessment of the pavements to determine the limits of the AC paving. Records review will include research of as-built drawings for the existing pavement section and AC lift thicknesses and the current aircraft fleet mix. Assume one (1) site visit with two (2) AECOM staff under Airport escort, and the site investigation will be performed during the daytime.

TASK 3 – 90% DESIGN SUBMITTAL

Task 3.1 Develop Drawings. AECOM will prepare 90% drawings. The construction drawings will be prepared in accordance with Index of Drawings per Exhibit "B" – Part 2. Drawings will be submitted in electronic PDF documents. The construction drawings will include the following:

- Paving and Grooving Plans and Details
- Striping Plans and Details

Task 3.2 Develop Paving and Striping Write-up for Engineer's Design Report. AECOM will prepare a narrative write-up for the pavement and striping improvements for inclusion in the Engineer's Design Report provided by Others.

Task 3.3 Develop Technical Specifications for Civil Work. AECOM will develop the following technical specifications per FAA AC 150/5370-10H:

Exhibit "A"
Scope of Services
Runway 12-30 Lighting Rehabilitation
Civil Design

WORK BREAKDOWN STRUCTURE

The project will be implemented using the following work breakdown structure:

TASK 1 – PROJECT MANAGEMENT

Task 1.1 Project Administration and Coordination. This task involves the overall management of the project to ensure compliance with the scope of services, schedule, budget, quality, and coordination of the project. Assume design period from January 2022 through February 2022 (1.5 months).

Task 1.2 Design Coordination Meetings. AECOM will participate in two (2) virtual design coordination meetings. Agenda and meeting notes will be provided by Others.

TASK 2 – FIELD INVESTIGATION AND DATA COLLECTION

Task 2.1 Site Investigations and Records Research. AECOM will perform field investigations including visual assessment of the pavements to determine the limits of the AC paving. Records review will include research of as-built drawings for the existing pavement section and AC lift thicknesses and the current aircraft fleet mix. Assume one (1) site visit with two (2) AECOM staff under Airport escort, and the site investigation will be performed during the daytime.

TASK 3 – 90% DESIGN SUBMITTAL

Task 3.1 Develop Drawings. AECOM will prepare 90% drawings. The construction drawings will be prepared in accordance with Index of Drawings per Exhibit "B" – Part 2. Drawings will be submitted in electronic PDF documents. The construction drawings will include the following:

- Paving and Grooving Plans and Details
- Striping Plans and Details

Task 3.2 Develop Paving and Striping Write-up for Engineer's Design Report. AECOM will prepare a narrative write-up for the pavement and striping improvements for inclusion in the Engineer's Design Report provided by Others.

Task 3.3 Develop Technical Specifications for Civil Work. AECOM will develop the following technical specifications per FAA AC 150/5370-10H:

- C-100 Contractor Quality Control Program
- C-110 Method of Estimating Pavement Material Within Specifications Limit
- P-101 Preparation/Removal of Existing Pavements
- P-401 Asphalt Mix Pavement
- P-603 Emulsified Asphalt Tack Coat
- P-621 Saw-Cut Grooves
- P-620 Runway and Taxiway Marking

Task 3.4 Develop Quantities/Cost Estimate for Civil Work. AECOM will develop quantities, Bid Item list, and probable unit prices for the civil work.

Task 3.5 Design Review Meeting. AECOM will participate in a 90% design review meeting with the Airport (2 hour virtual meeting), and will answer questions about the project design, and document civil review comments from the Airport. Assume meeting minutes will be prepared by Others.

TASK 4 – FINAL DESIGN SUBMITTAL

Task 4.1 Update Drawings. AECOM will prepare final drawings in accordance with Index of Drawings per Exhibit "B" – Part 2. AECOM will incorporate the Airport's 90% review comments and update the design of the project. Drawings will be submitted in electronic PDF documents.

Task 4.2 Update Paving and Striping Write-up for Engineer's Design Report. AECOM will update the narrative write-ups for the pavement and striping improvements for inclusion in the Engineer's Design Report provided by Others.

Task 4.3 Update Technical Specifications for Civil Work. AECOM will develop the technical specifications in compliance with AC 150/5370-10H. The specifications will include the preparation of the bid schedule for the civil work items.

Task 4.4 Update Quantities/Cost Estimate for Civil Work. AECOM will develop quantities, Bid Item list, and probable unit prices for the civil work.

TASK 5 - BIDDING SUPPORT SERVICES

Task 5.1 Attend Pre-Bid Conference. AECOM will attend the pre-bid conference to assist the Airport in responding to bidder's questions. Assume eight (8) hours total for virtual on-line meeting, and site visit on the runway at night for the bidder's job walk.

Task 5.2 Issue Clarifications / Addenda. AECOM will provide written responses to bidder's questions as requested by the Airport, and prepare any required addenda showing revision of the scope of work.

ASSUMPTIONS AND EXCLUSIONS

1. Lean Engineering will provide AECOM with sheet layouts in CAD for preparation of paving

Exhibit "A"
Runway 12-30 Lighting Rehabilitation
Long Beach Airport

- and striping plans.
2. Scope is limited to coldmilling and paving two (2) asphalt strips at 3,000-ft long for replacement of the runway TDZ lights. Any other improvements are excluded.
 3. Assume no permits are required for AECOM scope.
 4. Preparation of Erosion Control Plans (SWPPP) is excluded.
 5. It is assumed the Contractor will develop the SWPPP and obtain the NOI and any necessary permits.
 6. Environmental engineering, mitigation or permitting is excluded.
 7. Removal or remediation of contaminated soils is excluded.
 8. Striping plans limited to area damaged from the asphalt paving.
 9. Assume grading or pavement elevations plans are not required.
 10. Electrical Engineering is excluded.
 11. Preparation of Construction Safety and Phasing Plan (CSPP) is excluded, and will be prepared by Others.
 12. Preparation of the Final Construction Report for project closeout is excluded.
 13. Performing or evaluating existing topographic survey is excluded.
 14. Preparation of Front-End, Special Conditions, and General Condition Specifications is excluded.
 15. Assume design period is 6 weeks.
 16. Assume bidding period will be 4 weeks.
 17. Assume two (2) submittals packages:
 - a. 90% design submittal
 - b. Final design submittal

**Long Beach Airport (LGB)
Runway 12-30 Lighting Rehabilitation - Design
Summary of Cost Proposal**

EXHIBIT "B" - PART 1

<u>Task 1 - Project Management</u>		
Labor	\$1,658.80	
Expenses	\$0.00	
Subtotal		\$1,658.80
<u>Task 2 - Field Investigation and Data Collection</u>		
Labor	\$1,860.00	
Expenses	\$100.00	
Subtotal		\$1,960.00
<u>Task 3 - 90% Design Submittal</u>		
Labor	\$19,830.00	
Expenses	\$0.00	
Subtotal		\$19,830.00
<u>Task 4 - Final Design Submittal</u>		
Labor	\$11,238.00	
Expenses	\$0.00	
Subtotal		\$11,238.00
<u>Task 5 - Bidding Support Services</u>		
Labor	\$770.00	
Expenses	\$0.00	
Subtotal		\$770.00
	Design Phase	\$34,686.80
	Bidding Support	\$770.00
	Total	\$35,456.80

Long Beach Airport (LGB)
 Runway 12-30 Lighting Rehabilitation - Design
 June 2, 2022
 Estimate and Hour Summary

EXHIBIT "B" - PART 2

No.	Task Description	Total Hours	AECOM										Labor Subtotal	ODCs	Total Amount		
			Project Engineer	Project Manager II	Project Engineer I	CADD Designer I	Project Controls	Admin	Project Manager I	Project Engineer I	Project Engineer I	Project Engineer I					
1.0 PROJECT MANAGEMENT																	
1.1	Project Administration and Coordination	6		4						2						1,194.80	
1.2	Design Coordination Meetings (2 virtual mtgs at 1 hr each)	2		2												464.00	
	Subtotal Hours Task 1 -	8	0	6	0	0	0	0	0	2	0	0	0	0	1,658.80		
2.0 FIELD INVESTIGATION AND DATA COLLECTION																	
2.1	Site Investigation and Review of Record Drawings	8	4	4											1,860.00	100.00	1,960.00
	Subtotal Hours Task 2 -	8	4	4	0	0	0	0	0	0	0	0	0	1,860.00	100.00	1,960.00	
3.0 90% DESIGN SUBMITTAL																	
3.1	Develop Drawings (5 Paving Sheets, 4 Striping Sheets)	94	16	10	8	60									13,456.00		13,456.00
3.2	Develop Paving and Striping Write-up for Engineer's Design Report	2	1	1											465.00		465.00
3.3	Develop Technical Specifications for Civil Work	19	16	3											4,424.00		4,424.00
3.4	Develop Quantities/Cost Estimate for Civil Work	3	1		2										555.00		555.00
3.5	Design Review Meeting (1 Virtual Mtg)	4	2	2											930.00		930.00
	Subtotal Hours Task 3 -	122	36	16	10	60	0	0	0	0	0	0	0	19,830.00	0	19,830.00	
4.0 FINAL DESIGN SUBMITTAL																	
4.1	Update Drawings (5 Paving Sheets, 5 Striping Sheets)	54	12	8	4	30									8,356.00		8,356.00
4.2	Update Paving and Striping Write-up for Engineer's Design Report	2	1	1											465.00		465.00
4.3	Update Technical Specifications for Civil Work	8	6	2											1,862.00		1,862.00
4.4	Update Quantities/Cost Estimate for Civil Work	3	1		2										555.00		555.00
	Subtotal Hours Task 4 -	67	20	11	6	30	0	0	0	0	0	0	0	11,238.00	0	11,238.00	
5.0 BIDDING SUPPORT SERVICES																	
5.1	Attend Pre-Bid Conference (Virtual Mtg and Pre-bid Job Walk)	1		1											232.00		232.00
5.2	Issue Clarification / Addenda	4		1		3									538.00		538.00
	Subtotal Hours Task 5 -	5	0	2	0	3	0	0	0	0	0	0	0	770.00	0	770.00	
	Total Hours	210	60	39	16	93	2	0	0	0	0	0	0	35,356.80	100.00	35,456.80	

ASSUME 24" X 36" DRAWINGS

Proposed Civil Drawings

No.	Sheet	Drawing Title	Scale	90%	Final
1	C-101	PAVING AND GROOVING PLAN, SHEET 1 OF 4	1"=40'	Y	Y
2	C-102	PAVING AND GROOVING PLAN, SHEET 2 OF 4	1"=40'	Y	Y
3	C-103	PAVING AND GROOVING PLAN, SHEET 3 OF 4	1"=40'	Y	Y
4	C-104	PAVING AND GROOVING PLAN, SHEET 4 OF 4	1"=40'	Y	Y
5	C-111	PAVEMENT AND GROOVING DETAILS, SHEET 1 OF 1	N/A	Y	Y
6	C-201	PAVEMENT MARKING PLAN, SHEET 1 OF 4	1"=40'	Y	Y
7	C-202	PAVEMENT MARKING PLAN, SHEET 2 OF 4	1"=40'	Y	Y
8	C-203	PAVEMENT MARKING PLAN, SHEET 3 OF 4	1"=40'	Y	Y
9	C-204	PAVEMENT MARKING PLAN, SHEET 4 OF 4	1"=40'	Y	Y
OTHER CIVIL DELIVERABLES					
10		CIVIL SECTION FOR ENGINEER'S DESIGN REPORT	N/A	Y	Y
11		CIVIL QUANTITIES/COST ESTIMATE	N/A	Y	Y
12		CIVIL SPECIFICATIONS	N/A	Y	Y