

**DRAFT FIRST AMENDMENT TO GENERAL CONSTRUCTION CONTRACT BETWEEN
THE CITY OF SUNNYVALE AND TANKO STREETLIGHTING, INC.
FOR THE ENERGY-EFFICIENT LED STREETLIGHT CONVERSION 2016**

This First Amendment to General Construction Contract, dated _____, is by and between the CITY OF SUNNYVALE, a municipal corporation ("CITY"), and TANKO STREETLIGHTING, INC. ("CONTRACTOR").

WHEREAS, on February 15, 2017, CITY and CONTRACTOR entered into a General Construction Contract whereby CONTRACTOR would furnish all tools, equipment, apparatus, facilities, labor, transportation, and material necessary to perform and complete the project entitled Energy-Efficient LED Streetlight Conversion 2016, RFP No. F16-115 in a good and workmanlike manner; and

WHEREAS, the parties now agree that an Amendment to said Contract is advisable;

NOW, THEREFORE, THE PARTIES ENTER INTO THIS FIRST AMENDMENT TO GENERAL CONSTRUCTION CONTRACT:

3. Contract Price

Replace this section with the following:

3. **Contract Price.** The Owner agrees to pay and the Contractor agrees to accept, in full payment for the work above agreed to be done, the sum of Two Million Five Hundred Ninety Eight Thousand Seven Hundred Twenty One and 82/100 Dollars (\$2,598,721.82) subject to final determination of the work performed and materials furnished at unit prices per "Exhibit A-1" attached hereto and incorporated by this reference, and subject to additions and deductions in accordance, as provided in the Documents and in accordance with Contract Documents. The sum includes base bid and optional item.

All other terms and conditions remain unchanged.

IN WITNESS WHEREOF, the parties have executed this Contract First Amendment.

ATTEST:

CITY OF SUNNYVALE ("CITY")

By _____
City Clerk

By _____
City Manager

APPROVED AS TO FORM:

TANKO STREETLIGHTING, INC.
("CONTRACTOR")

By _____
City Attorney

By _____

Name and Title

By _____

Name and Title

EXHIBIT A-1
Compensation Schedule

Tanko Lighting - Philips

Existing Cobra-heads or Mast-arms	LED °Kelvin	Number of Fixtures Proposed	LED Replacement Unit Price \$/fixture	Installation and Administrati on Unit Price \$/Fixture	Total Price Unit Price \$/Fixture	Total Extended Price (Total Unit Price multiplied by Number of fixtures proposed)
70W HPS	4000K	4794	\$185.25	\$106.75	\$292.00	\$1,399,848.00
150 – 250+W HPS	4000K	1425	\$216.79	\$117.00	\$333.79	\$475,650.75
100W HPS (Soffit - Wall-packs)	4000K	6	\$444.03	\$108.00	\$552.03	\$3,312.18
TOTAL	N/A	N/A		N/A	N/A	\$1,878,810.93

Retrofit Fixture for Existing Post-Top Streetlighting –Optional Item

Existing Post Top - Downtown Standard - Retrofit kit	LED °Kelvin	Number of Fixtures Proposed	LED Replacement Unit Price \$/fixture	Installation and Administrati on Unit Price \$/Fixture	Total Price Unit Price \$/Fixture	Total Extended Price (Total Unit Price multiplied by Number of fixtures proposed)
150W HPS	4000K	700	\$310.26	\$109.00	\$419.26	\$293,482.00
TOTAL	N/A	N/A		N/A	N/A	\$293,482.00

ADAPTIVE CONTROLS PROPOSAL

A. Cost

Tanko Lighting will install an adaptive control system (to allow the City to remotely monitor and manage the streetlight system) simultaneously with the LED streetlight installation. Please find below Tanko Lighting's estimated cost of the proposed additive adaptive controls work below.

Adaptive Controls (Additive) Pricing*			
Quantity	Manufacturer Part No.	Unit Price	Extended Cost
5749	Procurement and installation of Echelon 100134 or 100220 TOP900TLX -GRY -Wireless controller, NEMA standard ANSI C136.41-2013, 120-277, wireless controller that installs directly to an exterior lighting fixture, providing remote monitoring and control	\$95.00/fixture	\$546,155.00
3	Procurement and installation of Echelon 100142 LumeWave Base Station 2.0 - Ethernet Base Station doubles the performance and range of the Lumewave Gateway using a robust bi-directional pole mounted amplifier. The LumeWave Base Station connects installed wireless luminaire controllers with the LumInsight Desktop Central Management System through an Ethernet link for LAN connections or cellular link via an integrated modem.	Included**	
1	Echelon 38800-50 Luminsight Desktop Central Management Software, is a Central Management Software system (CMS) which allows the user to identify/control devices and administer Lumewave system.	Included	
1	Echelon 96100 Remote Training and Support	Included	
3	Installation of Gateway	\$1,500.00	\$4,500.00
5,749	Credit for Ripley Photocell	\$4.46/fixture	(\$25, 640.54)
1	Contingency - Procurement and installation of Echelon 100142 LumeWave Base Station 2.0 - Ethernet Base Station doubles the performance and range of the Lumewave Gateway using a robust bi-directional pole mounted amplifier. The LumeWave Base Station connects installed wireless luminaire controllers with the LumInsight Desktop Central Management System through an Ethernet link for LAN connections or cellular link via an integrated modem.	\$6,000.00**	\$6,000.00
Total			\$531,014.46

*Please note that pricing does not include relevant sales tax, nor does it include spares or mockups.

** Procurement and installation of an additional gateway is \$6,000/gateway. Installation is based on using a Tanko contractor installing at a designated location with a bucket truck up to 35 ft.

B. Scope of Work

Tanko Lighting will integrate the adaptive controls elements into the greater LED streetlight conversion project seamlessly, through the following Tasks (already part of Tanko Lighting's existing streetlight LED conversion scope of work):

- Task 5: Materials Procurement
- Task 7: Logistics Management
- Task 8: Installation
- Task 9: Commissioning

C. Proposed Installation Schedule – Adaptive Controls Included

Please find Tanko Lighting's proposed Project Schedule in the table below. Please note that this is the comprehensive schedule for the entire project, not just the installation phase, and includes the installation of adaptive controls.

Proposed Project Schedule	
Task	Estimated Completion Date
GIS Audit	NTP + 20 calendar days
Data Reconciliation	2 weeks after Audit completion
Replacement Plan	Initial Design Submission = 2 weeks after Data Reconciliation completion; Final Design Submission = 1 week after City feedback
Final Scope of Work	Concurrent with Final Design Submission
Materials Procurement	<u>Submittals to City</u> = 1 week after City approval of Design; <u>Ordering</u> = 1 week after City submittal approval; <u>Shipment of Fixtures</u> = 4 – 6 weeks from order placement
Logistics Management	2 weeks prior to Installation
Community Outreach	2 – 4 weeks prior to Installation
Installation	<u>Commencement</u> = 1 week from material receipt; <u>Substantial Completion</u> = 3 months from commencement
Commissioning & Final Punch List	2 weeks following Substantial Completion
Final Reporting	4 weeks following Substantial Completion

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