

OFFICE OF THE CITY ATTORNEY
ROBERT E. SHANNON, City Attorney
333 West Ocean Boulevard, 11th Floor
Long Beach, CA 90802-4664

1 Dollars (\$296,153.00).

2 "52.3. Conditions. To the extent applicable, any and all terms and
3 conditions relating to the Street Light System in Lighting Contract No. 24289, including all
4 exhibits, shall apply to the Ocean Boulevard Median Lighting."

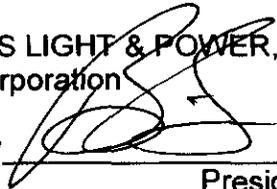
5 2. Except as expressly amended herein, all of the terms and conditions
6 contained in Lighting Contract No. 24289, as previously amended, are ratified and
7 confirmed and shall remain in full force and effect.

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

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10-27-2009, 2009

WS LIGHT & POWER, INC., a California corporation

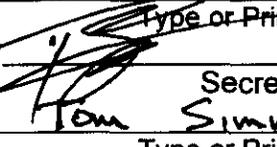
By  _____

President

William J. Simmons

Type or Print Name

10-27-2009, 2009

By  _____

Secretary

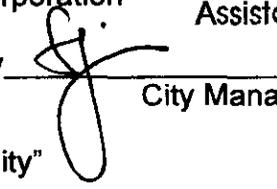
Tom Simmons

Type or Print Name

"WS"

11.5, 2009

CITY OF LONG BEACH, a municipal corporation
Assistant City Manager

By  _____

City Manager

EXECUTED PURSUANT TO SECTION 301 OF THE CITY CHARTER.

"City"

23 This Twenty-Fifth Amendment to Lighting Contract No. 24289 is approved
24 as to form on 10/25, 2009.

ROBERT E. SHANNON, City Attorney

By  _____

Assistant City Attorney

EXHIBIT X



City Light & Power, Inc.
2981 Redondo Avenue
Long Beach
California 90808
Tel: 562.983.2000
Fax: 562.983.7810

October 21, 2009

Carl S. Morgan
Redevelopment Project Officer, Downtown
Long Beach Redevelopment Agency
333 West Ocean Blvd., 4th Floor
Long Beach, CA 90802

RE: Ocean Boulevard Median Palm Tree Lighting / Golden Shore - Alamitos Ave.

Dear Mr. Morgan:

Per the Long Beach Redevelopment Agency's (RDA) request, City Light & Power, Inc. (CLP) is pleased to present this turn-key design build proposal to provide the design, engineering, construction, and purchase of all necessary equipment and material for the complete operation of 112 up-lights for 56 existing palm trees located in 7 different medians along Ocean Boulevard between Golden Shore and Alamitos Avenue. Unlike our previous proposal submitted in November 2008, regarding this same location, this proposal does not include multi-color programmable LED (Light Emitting Diode) lighting and is therefore very different in nature and cost. As a special RDA request CLP has also provided an energy efficient LED fixture option, referred to as Option 2.

Option 1: Metal Halide In-grade / Above-grade. *(Estimated Budget: \$296,153)*
This option will use a Metal Halide fixture that is mounted slightly above grade and slightly below grade. This fixture will be mounted on each side of the 56 palm trees and will be encased in concrete. In addition, this budget includes the design and construction of all required electrical infrastructure to operate the lights in the proposed sculptures, to be located in the median on Ocean Boulevard between Magnolia Avenue and South Chestnut Place. The energy cost of this option is expected to be approximately \$4,165 / Yr. (excludes proposed sculpture lighting).

Option 2: LED (Light Emitting Diode) Tree Mount. *(Estimated Budget: \$334,194)*
This option will use two LED fixtures that will be mounted to the tree itself about 8 feet from the base of the palm tree. The energy cost of this option is expected to be approximately \$2,587 / Yr.

Carl S. Morgan
October 21, 2009
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Thank you for this opportunity, if you would like to move forward on this project or have any questions, please contact me (562) 216-2155.

Sincerely,
CITY LIGHT & POWER, INC.



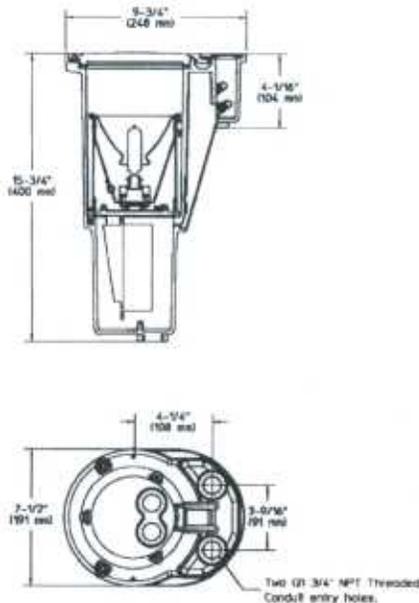
William J. Simmons
Vice President

HID (I25) Specification Sheet

Project Name:	Location:	MFG: Hadco
Fixture Type:	Catalog No.:	Qty:

Ordering Guide

Example: I25 SS SP 20T4



Product Code	I25	HID
Finish	SS N	Stainless steel (MATTE FINISH) Natural Bronze
Optics	SP NF FL O	Spot Narrow Flood Flood No Reflector
Wattage	20T4 35T4 70T4 35T6 70T6 35H 50H 70H	20W MH T4 *1 35W MH T4 *1 70W MH T4 *1 35W MH T6 *1 70W MH T6 *1 35W MH *1 PAR20/30 50W MH E17 *1 70W MH E17, *1 PAR30

*1 All HID electronic ballasts are universal voltage 120-277VAC 50/60Hz

Specifications

HOUSING:

Single-piece compression molded fiberglass reinforced polyester composite, factory pressure tested to ensure water will not wick or leak through. Separate sealed compartments provide isolation between field wiring, optics, and ballast (MH and CFL). Isolated, grade-mounted sealed wiring compartment with two (2) 3/4" threaded conduit inlets in bottom for feed-through wiring capabilities and supplied with gel-filled wire nuts. Cast cover to match trim ring with two captive stainless steel slotted Phillips machine screws for access. Potted factory seal with anti-wicking wiring between grade-level junction compartment and ballast compartment. Isolated ballast compartment with key-slotted, silicone-gasket cover. Rock guard made of cast brass (natural finish) or cast stainless steel (satin finish). Ring is factory pre-drilled for optional guard. Trim ring is natural cast bronze or cast stainless steel. Lens ring is hinged with two captive stainless slotted Phillips machine screws for access to lamping compartment (tamper-resistant screws available upon request.) Half dome 360 degree field adjustable for glare control, constructed of natural cast brass (natural finish) or cast stainless steel (satin finish) to match lens ring. Both options are designed to mount utilizing factory pre-drilled holes on lens ring with water channel to allow lens to stay free of dirt and contamination build-up.

FINISH:

Composite is pressure formed, molded-in color. Natural Brass has satin matte finish. Stainless Steel has satin matte finish.

OPTICAL ASSEMBLY:

Clear, flat, molded borosilicate glass, high impact, 3000 lb. live load rated, drive-over glass, with molded 100% silicone gasket, factory adhered. Optional lens assemblies include cool touch lens, reducing lens temperatures by 35%, ice blue lens, linear or multi-directional spread lens. Sealed optical chamber. Aiming 15° either side of vertical and full 360° rotation. Angle degree marks for precise vertical aiming with tool-less LOC-AIM®. Handle enables easy tool-less removal of optical assembly for hot aiming and re-lamping, simply press-fit back into place. High performance aluminum reflector for optimum symmetrical light output. Reflectors for T4 and T6 available for spot, narrow flood, or flood beam pattern. Reflectors for E17 available for spot or flood beam pattern.

LAMPING:

70W maximum MH G8.5 base: T4. 70W maximum MH G12 base: T6. 70W maximum MH Medium base: E17. 70W maximum MH Medium base: PAR/R 20/30. Lamp is not

ISO 9001:2000 Registered

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HADCO Note: Hadco reserves the right to modify the above details to reflect changes in the cost of materials and/or production and/or design without prior notice. 100 Craftway Littlestown, PA 17340 tel(717) 359-7131 fax (717) 359-9289 www.hadco.com Copyright 2006 Philips

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PHILIPS

HID (I25) Specification Sheet

Project Name:	Location:	MFG: Hadco
Fixture Type:	Catalog No.:	Qty:

included. See Ordering Guide for specific lamp types and wattages available.

ELECTRICAL ASSEMBLY:

4kv rated medium base porcelain socket. Nickel-plated screw shell with center contact. Key-slotted Ballast Assembly with Quick Disconnects mounted to cast aluminum bracket for easy maintenance. Bi-pin socket type (G8.5) with 250° Celsius high temperature teflon coated wire leads. Bi-pin socket type (G12) for T8 lamps, with 250° Celsius high temperature teflon coated wire leads.

BALLAST:

All metal halide HID ballasts are Smart Select™ universal electronic that automatically detect 120-277 volts, 50/60 Hz and are regulated with power factors better than 90% (HPF). Ballast provides +/- 5% lamp power regulation with +/- 10% input voltage regulation, sound rated "A", thermally protected, internally fused, output is short circuit protected, no PCBs. Ballasts are factory pre-wired and tested. Metal Halide ballasts are capable of starting at -20° F or -30° C. 50W MH ballasts are capable of starting at 5° F or -15° C.

CERTIFICATIONS:

UL Listed to U.S. safety standards for wet locations. cUL Listed to Canadian safety standards for wet locations. Manufactured to ISO 9001:2000 Standards. ADA compliant when used in concrete and flush mounted with CPS25.

WARRANTY:

Ten-year limited warranty.

IP RATING:

IP66/68: Dust-tight and dual rated - sealed against direct jets of water and against temporary immersion at a depth greater than 1 meter (3.28 feet).

Height :

15 3/4

Width:

7 1/2

Depth:

9 3/4