

State of Rhode Island and Providence Plantations Contract Offer
RIVIP BIDDER CERTIFICATION COVER FORM

SECTION 1 - VENDOR INFORMATION

Bid/RFPNumber: 7548382A1
Bid/RFP Title: DOT MIDSTATE FACILITY LIGHTING UPGRADE - ADDENDUM 1 (10 PGS)

Opening Date & Time: 1/28/2014 11:00 AM
RIVIP Vendor ID #: 3399
Vendor Name: Calson Construction Corporation
Address: 34 Oakdale Avenue
Johnston , RI 02919
USA

Telephone: (401) 272-1100
Fax: 401-272-0035
E-Mail: calsoncorp@aol.com
Contact Person: Caroline Calcagni
Title: President
R.I. Foreign Corp #:

NOTICE TO VENDORS

Each bid proposal for a *public works project* must include a "public copy" to be available for public inspection upon the opening of bids. **Bid proposals that do not include a copy for public inspection will be deemed nonresponsive.** For further information on how to comply with this statutory requirement, see R. I. Gen. Laws §§ 37-2-18(b) and (j). Also see Procurement Regulation 5.11, and in addition, for highway and bridge projects, also see Procurement Regulation 5.13, accessible at www.purchasing.ri.gov.

NOTE: AWARD OF CONTRACTS AND PURCHASE ORDERS SHALL BE SUBJECT, AT THE DISCRETION OF THE PURCHASING AGENT, TO THE OFFEROR COMPLETING AN ON-LINE RIVIP REGISTRATION at www.purchasing.ri.gov. It is THE RESPONSIBILITY OF THE VENDOR to make on-line corrections/updates using the Vendor maintenance program on the RI Division of Purchases Web Site.

SECTION 2 – REQUIREMENTS

ALL OFFERS ARE SUBJECT TO THE REQUIREMENTS, PROVISIONS AND PROCEDURES CONTAINED IN THIS CERTIFICATION FORM. Offerors are expected to READ, SIGN and COMPLY WITH all requirements. Failure to do so may be grounds for disqualification of the offer contained herein.

4.2. REGULATIONS, GENERAL TERMS AND CONDITIONS GOVERNING STATE CONTRACTS. This solicitation and any contract or purchase order arising from it are issued in accordance with the specific requirements described herein, and the State's Purchasing Laws and Regulations and other applicable State Laws. The Regulations, General Terms and Conditions are incorporated into all state contracts. These regulations and basic information on How To Do Business with the State of Rhode Island are posted on the Rhode Island Vendor Information Program Website (www.purchasing.ri.gov).

4.2A. ARRA SUPPLEMENTAL TERMS AND CONDITIONS. Contracts and sub-awards funded in whole or in part by the American Recovery and Reinvestment Act of 2009. Pub.L.No. 111-5 and any amendments thereto, such contracts and sub-awards, shall be subject to the Supplemental Terms and Conditions For Contracts and Sub-awards Funded in Whole or in Part by the American Recovery and Reinvestment Act of 2009. Pub.L.No. 111-5 and any amendments thereto located on the Division of Purchases website at www.purchasing.ri.gov.

4.3. EQUAL EMPLOYMENT OPPORTUNITY. Compliance certificate and agreement procedures will apply to all awards for supplies or services valued at \$10,000 and more. Minority Business Enterprise policies and procedures, including subcontracting opportunities as described in Title 37 Chapter 14.1, of the Rhode Island General Laws, also apply.

4.4. PERFORMANCE BONDS. Where indicated, successful bidder must furnish a 100% performance bond and labor and payment bond for contracts subject to Title 37 Chapters 12 and 13 of the Rhode Island General Laws. All bonds must be furnished by a surety company authorized to conduct business in the State of Rhode Island. Performance bonds must be submitted within 21 calendar days of the issuance of a tentative notice of award.

4.5. DEFAULT and NON-COMPLIANCE. Default and/or non-compliance with the RIVIP requirements and any other aspects of the award may result in withholding of payment(s), contract termination, debarment, suspension, or any other remedy necessary that is in the best interest of the state.

4.6. COMPLIANCE. Vendor must comply with all applicable federal, state and local laws, regulations and ordinances.

4.7. SPRINKLER IMPAIRMENT AND HOT WORK. The Contractor agrees to comply with the practices of the State's insurance carrier for sprinkler impairment and hot work. Prior to performing any work, the Contractor shall obtain the necessary information for compliance from the Risk Management Office at the Department of Administration or the agency for which work will be performed.

SECTION 5 – CERTIFICATIONS AND DISCLOSURES
ALL CONTRACT AWARDS ARE SUBJECT TO THE FOLLOWING DISCLOSURES & CERTIFICATIONS

Offerors must respond to every disclosure statement.

A person authorized to enter into contracts must sign the offer and attest to the accuracy of all statements.

Indicate Yes (Y) or No (N):

- N 1. State whether your company, or any owner, stockholder, officer, director, member, partner, or principal thereof, or any subsidiary or affiliated company, has been subject to suspension or debarment by any federal, state, or municipal government agency, or the subject of criminal prosecution, or convicted of a criminal offense within the previous five (5) years. If so, then provide details below.
- N 2. State whether your company, or any owner, stockholder, officer, director, member, partner, or principal thereof, or any subsidiary or affiliated company, has had any contracts with a federal, state or municipal government agency terminated for any reason within the previous five (5) years. If so, then provide details below.
- N 3. State whether your company or any owner, stockholder, officer, director, member, partner, or principal thereof, or any subsidiary or affiliated company, has been fined more than \$5000 for violation(s) of Rhode Island environmental laws by the Rhode Island Department of Environmental Management within the previous five (5) years. If so, then provide details below.
- Y 4. I/we certify that I/we will immediately disclose, in writing, to the Chief Purchasing Officer any potential conflict of interest, which may occur during the course of the engagement authorized pursuant to this contract.
- Y 5. I/we acknowledge that, in accordance with Chapter 37-2-54(c) of the Rhode Island General Laws "no purchase or contract shall be binding on the state or any agency thereof unless approved by the Department [of Administration] or made under general regulations which the Chief Purchasing Officer may prescribe", including change orders and other types of contracts and under State Purchasing Regulation 8.2.1.1.2, "any alleged oral agreement or arrangements made by a bidder or contractor with any agency or an employee of the Office of Purchases may be disregarded and shall not be binding on the state".
- Y 6. I/we certify that I/we or my/our firm possesses all licenses required by Federal and State laws and regulations as they pertain to the requirements of the solicitation and offer made herein and shall maintain such required license(s) during the entire course of the contract resulting from the offer contained herein and should my/our license lapse or be suspended, I/we shall immediately inform the Rhode Island State Purchasing Agent in writing of such circumstance.
- Y 7. I/we certify that I/we will maintain required insurance during the entire course of the contract resulting from the offer contained herein and should my/our insurance lapse or be suspended, I/we shall immediately inform the Rhode Island State Purchasing Agent in writing of such circumstance.
- Y 8. I/we certify that I/we understand that falsification of any information herein or failure to notify the Rhode Island State Purchasing Agent as certified herein may be grounds for suspension, debarment and/or prosecution for fraud.
- Y 9. I/we acknowledge that the provisions and procedures set forth in this form apply to any contract arising from this offer.
- Y 10. I/we acknowledge that I/we understand the State's Purchasing Laws (37-2 of the General Laws of Rhode Island) and Purchasing Regulations and General Terms and Conditions available at the Rhode Island Division of Purchases Website (www.purchasing.ri.gov) apply as the governing conditions for any contract or purchase order I/we may receive from the State of Rhode Island, including the offer contained herein.
- Y 11. I/we certify that the bidder: (i) is not identified on the General Treasurer's list, created pursuant to R.I. Gen. Laws § 37-2.5-3, as a person or entity engaging in investment activities in Iran described in § 37-2.5-2(b); and (ii) is not engaging in any such investment activities in Iran.
- Y 12. I/we certify that the above vendor information is correct and complete.

Section 2.1 - RULES FOR SUBMITTING OFFERS

2.1A. This CERTIFICATION FORM MUST BE ATTACHED IN ITS ENTIRETY TO THE FRONT OF THE OFFER and shall be considered an integral part of each offer made by a vendor to enter into a contract with the State of Rhode Island, Division of Purchases. As such, submittal of the entire Bidder Certification Cover Form, signed by a duly authorized representative of the offeror attesting that he/she (1) has read and agrees to comply with the requirements set forth herein and (2) to the accuracy of the information provided and the offer extended, is a mandatory part of any contract award.

To assure that offers are considered on time, each offer must be submitted with the specific Bid/RFP/LOI number (provided above) and the date and time of opening marked in the upper left hand corner of envelope. Each bid/offer must be submitted in separate sealed envelopes.

A complete, signed (in ink) offer package must be delivered to the Division of Purchases (via any mail or messenger service) by the time and date specified for the opening of responses in a sealed envelope.

Bids must be submitted on the RI bid solicitation forms provided, indicating brand and part numbers of items offered, as appropriate. Bidders must submit detailed cuts and specs on items offered as equivalent to brands requested WITH THE OFFER. Bidders must be able to submit samples if requested. Mail To: Division of Purchases, One Capitol Hill, Second Floor, Providence, RI 02908-5855.

Documents misdirected to other State locations or which are not present in the Division of Purchases at the time of opening for whatever cause will be deemed to be late and will not be considered. For the purposes of this requirement, the official time and date shall be that of the time clock in the Division of Purchases. Postmarks shall not be considered proof of timely submission.

2.1B. RIVIP SOLICITATIONS. To assure maximum access opportunities for users, public bid/RFP solicitations shall be posted on the RIVIP for a minimum of seven days and no amendments shall be made within the last five days before the date an offer is due. Except when access to the Web Site has been severely curtailed and it is determined by the State Purchasing Agent that special circumstances preclude extending a solicitation due date, requests to mail or fax hard copies of solicitations will not be honored. When the result of an Internet solicitation is unsuccessful, the State of Rhode Island will cancel the original solicitation and resolicit the original offer directly from vendors.

2.2. PRICING. Offers are irrevocable for sixty (60) days from the opening date (or such other extended period set forth in the solicitation) and may not be withdrawn, except with the express permission of the State Purchasing Agent. All pricing will be considered to be firm and fixed unless otherwise indicated. The State of Rhode Island is exempt from Federal excise taxes and State Sales and Use Taxes. Such taxes shall not be included in the bid price. PRICES QUOTED ARE FOB DESTINATION.

2.3. DELIVERY and PRODUCT QUALITY. All offers must define delivery dates for all items; if no delivery date is specified, it is assumed that immediate delivery from stock will be made. The contractor will be responsible for delivery of materials in first class condition. Rejected materials will be at vendor's expense.

2.4. PREVAILING WAGE, OSHA SAFETY TRAINING, and APPRENTICESHIP REQUIREMENTS.

Bidders must comply with the provisions of the Rhode Island labor laws, including R. I. Gen. Laws §§ 37-13-1 *et seq.* and occupational safety laws, including R. I. Gen. Laws §§ 28-20-1 *et seq.* These laws mandate for public works construction projects the payment of prevailing wage rates, the implementation and maintenance of occupational safety standards, and for projects with a minimum value of \$1 Million, the employment of apprentices. The successful Bidder must submit certifications of compliance with these laws from each of its subcontractors prior to their commencement of any work. Prevailing wage rates, apprenticeship requirements, and other workforce and safety regulations are accessible at www.dlt.ri.gov.

2.5. PUBLIC RECORDS. Offerors are advised that all materials submitted to the State for consideration in response to this solicitation will be considered without exception to be Public Records pursuant to Title 38 Chapter 2 of the Rhode Island General Laws, and will be released for inspection immediately upon request once an award has been made. Offerors are encouraged to attend public bid/RFP openings to obtain information; however, bid/RFP response summaries may be reviewed after award(s) have been made by using the RIVIP at any time or appearing in person at the Division of Purchases Mondays through Fridays between 8:30 a.m. and 3:30 p.m. Telephone requests for results will not be honored. Written requests for results will only be honored if the information is not available on the RIVIP.

SECTION 3 - AWARD DETERMINATION

Award will be made to the responsive and responsible offeror quoting the lowest net price in accordance with specifications, for any individual item(s), for major groupings of items, or for all items listed, at the State's sole option.

3.1. BID SURETY. Where bid surety is required, bidder must furnish a bid bond or certified check for 5% of the bid total with the bid, or for such other amount as may be specified. Bids submitted without a required bid surety will not be considered.

3.2. SPECIFICATIONS. Unless specified "no substitute," product offerings equivalent in quality and performance will be considered (at the sole option of the State) on the condition that the offer is accompanied by detailed product specifications. Offers which fail to include alternate specifications may be deemed nonresponsive.

SECTION 4 – CONTRACT PROVISIONS

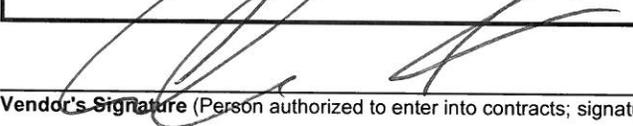
4.1. VENDOR AUTHORIZATION TO PROCEED.

4.1A. When a purchase order, change order, contract/agreement or contract/agreement amendment is issued by the RI Division of Purchases, no claim for payment for services rendered or goods delivered contrary to or in excess of the contract terms and scope shall be considered valid unless the vendor has obtained a written change order or contract amendment issued by the Division of Purchases PRIOR TO delivery.

4.1B. Any offer, whether in response to a solicitation for proposals or bids, or made without a solicitation, which is accepted in the form of an order OR Pricing Agreement made in writing by the Purchasing Agent, or a state official with purchasing authority delegated by the Purchasing Agent, shall be considered a binding contract.

IF YOU HAVE ANSWERED "YES" TO QUESTIONS #1-3 OR IF YOU ARE UNABLE TO CERTIFY YES TO ITEMS #4-12 OF THE FOREGOING, PROVIDE DETAILS/EXPLANATION BELOW AND/OR IN AN ATTACHED STATEMENT. INCOMPLETE CERTIFICATION FORMS SHALL BE GROUNDS FOR DISQUALIFICATION OF OFFER.

Signature below commits vendor to the attached offer and certifies (1) that the offer has taken into account all solicitation amendments, (2) that the above statements and information are accurate and that vendor understands and has complied with the requirements set forth herein. When delivering offers in person to One Capitol Hill, vendors are advised to allow at least one hour additional time for clearance through security checkpoints.


Vendor's Signature (Person authorized to enter into contracts; signature must be in ink.)

Date 1-28-14

Caroline Calcagni, President Print
Name and Title of company official signing offer



Request for Quote

STATE OF RHODE ISLAND AND PROVIDENCE PLANTATIONS
ONE CAPITOL HILL
PROVIDENCE RI 02908

CREATION DATE : 31-DEC-13
BID NUMBER: 7548382
TITLE: D.O.T. MIDSTATE FACILITY LIGHTING UPGRADE
(PUBLIC COPY REQUIRED)

BID CLOSING DATE AND TIME: 28-JAN-2014 11:00:00

BUYER: Hill, Lisa
PHONE #: 401-574-8118

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DOT ACCOUNTS PAYABLE
TWO CAPITOL HILL, RM 243
SMITH ST
PROVIDENCE, RI 02903
US

S
H
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O
DOT MAINTENANCE BUSINESS OFFICE
360 LINCOLN AVE
WARWICK, RI 02888
US

Requisition Number: 1348666

Line	Description	Quantity	Unit	Unit Price	Total
1	TOTAL COST INCLUDING ALL NECESSARY LABOR AND MATERIALS TO PERFORM GARAGE LIGHTING UPGRADE AT DOT MIDSTATE FACILITY, (2400 NEW LONDON TURNPIKE, EAST GREENWICH, RI) IN ACCORDANCE WITH ATTACHED PLANS AND SPECIFICATIONS Line Note to Bidders: THERE WILL BE A ON-SITE PRE-BID CONFERENCE HELD AS FOLLOWS: DATE: 1/14/14 TIME: 10:00 a.m. LOCATION: D.O.T. MIDSTATE FACILITY 2400 NEW LONDON AVENUE EAST GREENWICH, RI	1.00	Each		\$34,280.00

Delivery: 3 months

Terms of Payment: net 30 days

It is the Vendor's responsibility to check and download any and all addenda from the RIVIP. This offer may not be considered unless a signed RIVIP generated Bidder Certification Cover Form is attached and the Unit Price column is completed. The signed Certification Cover Form must be attached to the front of the offer

Terms and Conditions

BID STANDARD TERMS AND CONDITIONS

TERMS AND CONDITIONS FOR THIS BID

SURETY REQUIREMENTS

BIDDER IS REQUIRED TO PROVIDE A BID SURETY IN THE FORM OF A BID BOND, OR A CERTIFIED CHECK PAYABLE TO THE STATE OF RHODE ISLAND, IN THE AMOUNT OF A SUM NOT LESS THAN FIVE PERCENT (5%) OF THE BID PRICE. BID SURETY MUST BE ATTACHED TO THE BID FORM. THE SUCCESSFUL BIDDER WILL ALSO BE REQUIRED TO FURNISH PERFORMANCE AND LABOR AND PAYMENT BONDS AT TIME OF TENTATIVE CONTRACT AWARD.

START DATE

STARTING DATE ASAP NO. OF WORKING DAYS REQUIRED FOR COMPLETION
90

WAGE REQUIREMENTS

BIDDERS ARE ADVISED THAT ALL PROVISIONS OF TITLE 37 CHAPTER 13 OF THE GENERAL LAWS OF RHODE ISLAND APPLY TO THE WORK COVERED BY THIS REQUEST, AND THAT PAYMENT OF THE GENERAL PREVAILING RATE OF PER DIEM WAGES AND THE GENERAL PREVAILING RATE FOR REGULAR, OVERTIME, AND OTHER WORKING CONDITIONS EXISTING IN THE LOCALITY FOR EACH CRAFT, MECHANIC, TEAMSTER, OR TYPE OF WORKMAN NEEDED TO EXECUTE THIS WORK IS A REQUIREMENT FOR BOTH CONTRACTORS AND SUBCONTRACTORS. THE PREVAILING WAGE TABLE MAY BE OBTAINED AT THE RI DIVISION OF PURCHASES HOME PAGE BY INTERNET at www.purchasing.ri.gov. SELECT "BIDDING INFORMATION", THEN "GENERAL INFORMATION", AND THEN SELECT "PREVAILING WAGE TABLES". PRINTING THE ENTIRE DOCUMENT AVERAGES APPROXIMATELY ONE MINUTE PER PAGE - YOU MAY WANT TO PRINT ONLY THE PAGES APPLICABLE TO YOUR BID. BIDDERS NOTE: IN THE EVENT THIS BID SPECIFIES PRICE OFFERS ON A TIME-AND-MATERIALS BASIS, i.e., AN HOURLY RATE, ANY OR ALL BIDS SUBMITTED IN AN AMOUNT LESS THAN THE PREVAILING RATE IN EFFECT FOR THE WORK COVERED BY THIS REQUEST AS OF THE DATE OF BID ISSUANCE SHALL BE REJECTED BY THE DIVISION OF PURCHASES.

INSURANCE REQUIREMENTS

AN INSURANCE CERTIFICATE IN COMPLIANCE WITH PROVISIONS OF ITEM 31 (INSURANCE) OF THE GENERAL CONDITIONS OF PURCHASE IS REQUIRED FOR COMPREHENSIVE GENERAL LIABILITY, AUTOMOBILE LIABILITY, AND WORKERS' COMPENSATION AND MUST BE SUBMITTED BY THE SUCCESSFUL BIDDER(S) TO THE DIVISION OF PURCHASES PRIOR TO AWARD. THE INSURANCE CERTIFICATE MUST NAME THE STATE OF RHODE ISLAND AS CERTIFICATE HOLDER AND AS AN ADDITIONAL INSURED. FAILURE TO COMPLY WITH THESE PROVISIONS MAY RESULT IN REJECTION OF THE OFFEROR'S BID. ANNUAL RENEWAL CERTIFICATES MUST BE SUBMITTED TO THE AGENCY IDENTIFIED ON THE PURCHASE ORDER. FAILURE TO DO SO MAY BE GROUNDS FOR CANCELLATION OF CONTRACT.

NOTE: IF THIS BID COVERS CONSTRUCTION, SCHOOL BUSING, HAZARDOUS WASTE, OR VESSEL OPERATION, APPLICABLE COVERAGES FROM THE FOLLOWING LIST MUST ALSO

BE SUBMITTED TO THE DIVISION OF PURCHASES PRIOR TO AWARD: * PROFESSIONAL LIABILITY INSURANCE (AKA ERRORS & OMISSIONS) - \$1 MILLION OR 5% OF ESTIMATED PROJECT COST, WHICHEVER IS GREATER. * BUILDER'S RISK INSURANCE - COVERAGE EQUAL TO FACE AMOUNT OF CONTRACT FOR CONSTRUCTION. * SCHOOL BUSING - AUTO LIABILITY COVERAGE IN THE AMOUNT OF \$5 MILLION. * ENVIRONMENTAL IMPAIRMENT (AKA POLLUTION CONTROL) - \$1 MILLION OR 5% OF FACE AMOUNT OF CONTRACT, WHICHEVER IS GREATER. * VESSEL OPERATION - (MARINE OR AIRCRAFT) - PROTECTION & INDEMNITY COVERAGE REQUIRED IN THE AMOUNT OF \$1 MILLION.

LICENSE REQUIREMENTS

VENDOR (OWNER OF COMPANY) IS RESPONSIBLE TO COMPLY WITH ALL LICENSING OR STATE PERMITS REQUIRED FOR THIS TYPE OF SERVICE. A COPY OF LICENSE/PERMIT SHOULD BE SUBMITTED WITH THIS BID. IN ADDITION TO THESE LICENSE REQUIREMENTS, BIDDER, BY SUBMISSION OF THIS BID, CERTIFIES THAT ANY/ALL WORK RELATED TO THIS BID, AND ANY SUBSEQUENT AWARD WHICH REQUIRES A RHODE ISLAND LICENSE(S), SHALL BE PERFORMED BY AN INDIVIDUAL(S) HOLDING A VALID RHODE ISLAND LICENSE.

SURETY REQUIREMENTS

BIDDER IS REQUIRED TO PROVIDE A BID SURETY IN THE FORM OF A BID BOND, OR A CERTIFIED CHECK PAYABLE TO THE STATE OF RHODE ISLAND, IN THE AMOUNT OF A SUM NOT LESS THAN FIVE PERCENT (5%) OF THE BID PRICE. BID SURETY MUST BE ATTACHED TO THE BID FORM. THE SUCCESSFUL BIDDER WILL ALSO BE REQUIRED TO FURNISH PERFORMANCE AND LABOR AND PAYMENT BONDS AT TIME OF TENTATIVE CONTRACT AWARD.



State of Rhode Island
Department of Administration / Division of Purchases
One Capitol Hill, Providence, Rhode Island 02908-5855
Tel: (401) 574-8100 Fax: (401) 574-8387

ADDENDUM #1

RFP # 7548382

TITLE: D.O.T. MIDSTATE FACILITY LIGHTING UPGRADE

SUBMISSION DEADLINE: 1/28/14 – 11:00 A.M.

Prospective bidders and all concerned are hereby advised of the attached changes/modifications for the above referenced RFQ and are hereby requested to change their copies accordingly.

Lighting Upgrade Plan and product cut sheets are attached.

Handwritten signature of Lisa Hill in cursive.

LISA HILL
CHIEF BUYER

Bidders must include a signed copy of this addendum with their proposal submission as acknowledgment.

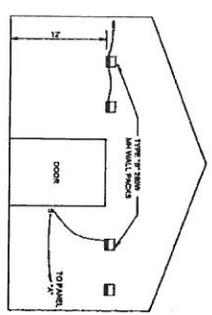
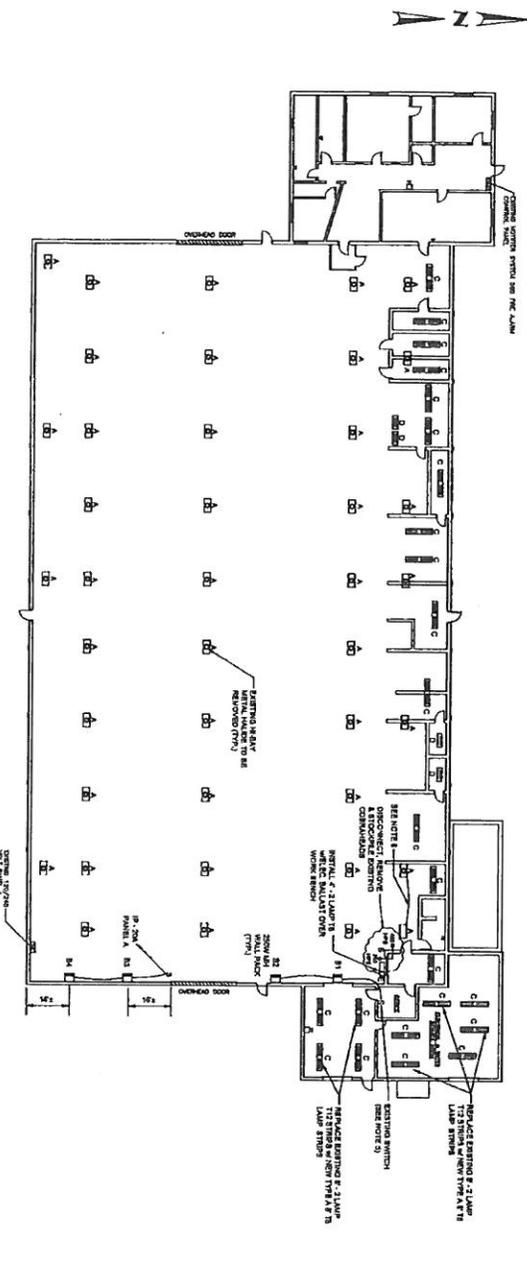
Calson Construction Corporation

Company Name (Print)

Handwritten signature of an authorized representative in cursive, written over a horizontal line.

Signature of Authorized Representative

NO.	DATE	BY	REVISION
1			



- GENERAL NOTES:**
1. ALL WORK TO BE DONE ACCORDING TO THE LATEST EDITION OF THE CODE BOOKS, SPECIFICATIONS, AND THE TOWN OF EAST GREENWICH REQUIREMENTS.
 2. CONTRACTOR TO VERIFY EXISTING CONDITIONS AND LOCATIONS ALL WORK WITH TYPICAL AND UNUSUAL CONDITIONS SHALL BE INDICATED BY A NOTE.
 3. PROPOSED LIGHTING LOCATIONS ARE APPROXIMATE AND INSTALLATIONS ARE TO BE MADE BY THE CONTRACTOR.
 4. ALL LIGHTING ARE TO BE REMOVED AND RELOCATED AS DIRECTED BY DESIGN.
 5. CONTRACTOR TO VERIFY ALL NEW CONDUITS TO BE INSTALLED TO BE IN ACCORDANCE WITH ALL LOCAL AND STATE REQUIREMENTS.
 6. CONTRACTOR TO VERIFY ALL NEW WIRING TO BE INSTALLED TO BE IN ACCORDANCE WITH ALL LOCAL AND STATE REQUIREMENTS.
 7. CONTRACTOR TO VERIFY ALL NEW WIRING TO BE INSTALLED TO BE IN ACCORDANCE WITH ALL LOCAL AND STATE REQUIREMENTS.



ANTONIO F. FRANCO
REGISTERED PROFESSIONAL ENGINEER
STATE OF RHODE ISLAND

ANTONIO F. FRANCO & ASSOCIATES
REGISTERED PROFESSIONAL ENGINEERS
11 STATE STREET
EAST GREENWICH, RHODE ISLAND 02816
(401) 885-1111

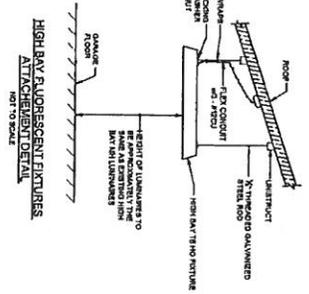
GHMA
Gordon R. Anshelink, Inc.
Civil and Mechanical Engineers
11 STATE STREET
EAST GREENWICH, RHODE ISLAND 02816
(401) 885-1111

RHODE ISLAND
DEPARTMENT OF TRANSPORTATION
MID-STATE
MAINTENANCE FACILITY
2400 NEW LONDON AVENUE
EAST GREENWICH, RHODE ISLAND

LIGHTING UPGRADE PLAN

SCALE: 1/8" = 1'-0"
1489 IMP-STATE PLAN

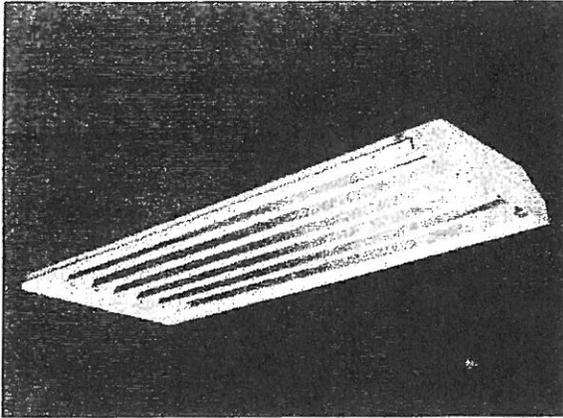
- LIGHTING LEGEND**
- EXISTING 20 WATT 4'x4' LIGHT BY LUMINERES, REMOVED & RELOCATE
 - TYPE A - NEW 24" TROFFER LIGHT BY LUMINERES, REMOVED & RELOCATE
 - TYPE B - NEW 24" TROFFER LIGHT BY LUMINERES, REMOVED & RELOCATE
 - TYPE C - NEW 24" TROFFER LIGHT BY LUMINERES, REMOVED & RELOCATE
 - TYPE D - NEW 24" TROFFER LIGHT BY LUMINERES, REMOVED & RELOCATE
 - TYPE E - NEW 24" TROFFER LIGHT BY LUMINERES, REMOVED & RELOCATE
 - TYPE F - NEW 24" TROFFER LIGHT BY LUMINERES, REMOVED & RELOCATE
 - TYPE G - NEW 24" TROFFER LIGHT BY LUMINERES, REMOVED & RELOCATE
 - TYPE H - NEW 24" TROFFER LIGHT BY LUMINERES, REMOVED & RELOCATE
 - TYPE I - NEW 24" TROFFER LIGHT BY LUMINERES, REMOVED & RELOCATE
 - TYPE J - NEW 24" TROFFER LIGHT BY LUMINERES, REMOVED & RELOCATE
 - TYPE K - NEW 24" TROFFER LIGHT BY LUMINERES, REMOVED & RELOCATE
 - TYPE L - NEW 24" TROFFER LIGHT BY LUMINERES, REMOVED & RELOCATE
 - TYPE M - NEW 24" TROFFER LIGHT BY LUMINERES, REMOVED & RELOCATE
 - TYPE N - NEW 24" TROFFER LIGHT BY LUMINERES, REMOVED & RELOCATE
 - TYPE O - NEW 24" TROFFER LIGHT BY LUMINERES, REMOVED & RELOCATE
 - TYPE P - NEW 24" TROFFER LIGHT BY LUMINERES, REMOVED & RELOCATE
 - TYPE Q - NEW 24" TROFFER LIGHT BY LUMINERES, REMOVED & RELOCATE
 - TYPE R - NEW 24" TROFFER LIGHT BY LUMINERES, REMOVED & RELOCATE
 - TYPE S - NEW 24" TROFFER LIGHT BY LUMINERES, REMOVED & RELOCATE
 - TYPE T - NEW 24" TROFFER LIGHT BY LUMINERES, REMOVED & RELOCATE
 - TYPE U - NEW 24" TROFFER LIGHT BY LUMINERES, REMOVED & RELOCATE
 - TYPE V - NEW 24" TROFFER LIGHT BY LUMINERES, REMOVED & RELOCATE
 - TYPE W - NEW 24" TROFFER LIGHT BY LUMINERES, REMOVED & RELOCATE
 - TYPE X - NEW 24" TROFFER LIGHT BY LUMINERES, REMOVED & RELOCATE
 - TYPE Y - NEW 24" TROFFER LIGHT BY LUMINERES, REMOVED & RELOCATE
 - TYPE Z - NEW 24" TROFFER LIGHT BY LUMINERES, REMOVED & RELOCATE



TYPE "A"

HB80 SERIES

Linear HO-T5 Fluorescent High Bay Luminaire



Fixture Type: _____

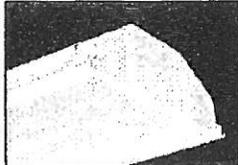
Job Information: _____

SPECIFICATIONS:

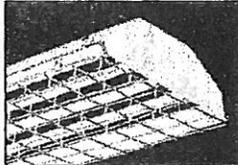
- The HB80 fluorescent high bay luminaire offers an alternative to the traditional HID high bay source and is now becoming the preferred method for high mounting height applications. Linear HO-T5 lamp and ballast technologies, advanced optics and ultra-high reflective materials, are built into a full housing luminaire design.
- Designed for warehouses, manufacturing facilities, big-box retail environments, and school gymnasiums that have high ceilings and wide open spaces. Use in new installations or as a direct replacement for older inefficient HID luminaires.
- Provides a high lumen energy saving package with the reliability and benefits of a fluorescent source and none of the disadvantages of an HID source.
- Ultra high efficiency: Over 98%, industrial style luminaire delivers 5000 initial lumens per each 54W-HO-T5 lamp used. Specify 2-, 3-, 4-, 5-, or 6-lamps.
- Energy consumption: A 4-lamp HO-T5 luminaire consumes about one-half the energy of a typical 400W metal halide high bay fixture while maintaining comparable light levels. Replaces an HID high bay on a one-to-one basis with dramatic energy savings.
- Lamp and ballast technology features: Up to 35,000-hour lamp life, highest energy savings, zero degree F starting temps, instant on/instant re-strike, sound rating a quiet "A", 93% lumen maintenance, 3000K, 3500K, and 4100K color temperatures, 85 CRI.
- Reflector: Luminaire design features a precision-formed multi-beveled Miro-4 enhanced aluminum reflector with a reflectivity of 95%. CAD designed to the corresponding number of lamps for maximum optics and performance. Other materials on request.
- Ballasts HO-T5: Full electronic, normal light output, high power factor. Programmed start, THD less than 10%, end-of-lamp life safety shut down feature. Up to 4-lamps per ballast is standard. Six-lamp luminaires to have one 4-lamp and one 2-lamp combination. Multi-volt 120V-277V/50HZ-60HZ is standard. Dedicated 120V/60HZ, 277V/60HZ, and 480V/60HZ are available. Multi-circuit wiring upon request.
- Emergency battery back up: Integrated packs range from 825 lumens up to 1600 lumens. Varies with lamp type.
- Housings: Die formed code gauge cold rolled steel permanently assembled with rivets and screws. Vented top for optimum ballast performance. Ample knockouts are provided. Quick wiring access plate provided. White enamel finish on all parts. Post painted powder coating on request. An all-aluminum housing is optional.
- Sockets: Miniature T5 bi-pin rotary locking type. Constructed from UV and heat resistant breakage-free polycarbonate.
- Occupancy sensors: Self-contained sensor mounts directly to luminaire. Provides occupancy control to individual luminaire with passive infrared technology. Reliable coverage up to 40Ft. height. Interchangeable lenses for 360 degree or aisle way pattern.
- Optional accessories: Ship separately; Wireguards, V hangers, stem sets, cable sets. Pre-installed; Y-shaped cable/paddle hangers. Wired-in; GLR or GMF fusing, 120V 18/3-SJT cord sets, 120V 16/3-SJT cord and NEMA L5-15P twist-lock plug set, 277V 16/3-SJT cord and NEMA L7-15P twist-lock plug set, flex sets.
- UL and CUL listed 1598 and bears their label. Suitable for dry locations or optional damp locations with UL Damp Label. Union made and labeled.



4-Lamp Unit



Optional Door Frame Assembly
(See HB80/FR Series)



Optional Wireguard Assembly



20 Audrey Place • Fairfield, NJ 07004 • Tel: 973.244.9444 • Fax: 973.244.9522
www.merccltg.com

TYPE "A"

HB80 SERIES Linear HO-T5 Fluorescent High Bay Luminaire

Fixture Type:

Job Information:

ORDERING DATA: Fill in boxes below with corresponding bold options.

Example: HB80-654-HO-T5-ELB-UNI-2B/42-EMPK/I320-05

Series	No. of Lamps Cross/ Fixture Width	Lamp Wattage/Ea./ Fixture Length	Lamp Type	Ballast Type	Voltage	Number of Ballasts	Wired-In Options
HB80 HB80 Fluorescent High Bay Luminaire	2 Lamps/13-13/16"	54 54W-HO-T5-48"L	HO-T5 Linear High Output T5	ELB HO-T5 Electronic Programmed Start. <10%THD, Up to 6-Lamps per Multi-Volt Ballast. Up to 4-Lamps per 480V Ballast.	UNI Universal Voltage, Multi-Volt 120V-277V 50/12-60HZ.	1B 1-Ballast/Standard for all 2-, 3-, or 4-Lamp luminaires.	EMPK/ISL54 ISL-54 or Equal 825 Lumens. One HO-T5 Lamp.
HB80AL HB80 Aluminum Fluorescent High Bay Luminaire	3 Lamps/13-13/16" 4 Lamps/13-13/16" 5 Lamps/19-15/16" 6 Lamps/19-15/16"	Other Lamps As Specified.	Other Lamps As Specified.	120V 120V-60HZ/ Dedicated Voltage for Dimming, Cold Sets, Flex.	2B/32 2-Ballasts/Standard for all 5-Lamp luminaires, 3-Lamp/2-Lamp.	2B/11, 21, 22 2-Ballasts/Optional for 2, 3, and 4-Lamp luminaires. 1-Lamp/1-Lamp, 2-Lamp/1-Lamp, 2-Lamp/2-Lamp.	EMPK/I320 I-320 or Equal 1150 Lumens. One HO-T5 Lamp.
				277V 277V-60HZ/ Dedicated Voltage for Dimming, Cold Sets, Flex.	2B/42 2-Ballasts/Standard for all 6-Lamp luminaires, 4-Lamp/2-Lamp.	3B/222 3-Ballasts/Optional for 6-Lamp luminaires, 2-Lamp/2-Lamp/2-Lamp.	EMPK/ISL540 ISL-540 or Equal 1300 Lumens. One HO-T5 Lamp.
				480V 480V-60HZ.			EMPK/I880 I-880 or Equal 1600 Lumens. One HO-T5 Lamp.
							OS Leviton OSFHU or Equal Occupancy Sensor, 360 Degree Lens Installed. Able Way Pattern Included. Others as Specified.
							18/3CP 120V 18/3 SJT Cord & Plug Set/Others on Request.
							16/3CTP 120V 16/3 SJT Cord & NEMA L5-15P Twist-Lock Plug Set/Others on request.
							277-16/3CTP 277V 16/3 SJT Cord & NEMA L7-15P Twist-Lock Plug Set/Others on request.
							FLX 6FT 120V or 277V Flex.
							FLX/2 6FT 120V or 277V 2-Circuit Flex.
							GLR/Fusing
							GMF/Fusing
							CH (2) Y-Shaped Cable/ Paddle Hangers Pre-Installed.
							PP Post painted powder coated finish. On request.

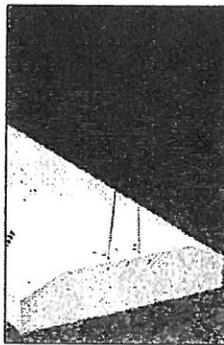
WIRE GUARDS: (Order Separately)

Example: EX: WG-HB80-654-11G-WHT
All Wire Guards Include 6-Mounting Clips & Screws

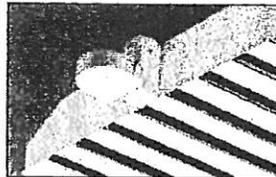
Series	Lamp Wattage/ Wire Guard Width	Wire Gauge	Finish
WG-HB80			
WG-HB80 Wire Guard	454 4-Lamp Width 654 6-Lamp Width	9G 9 Gauge Wire 11G 11 Gauge Wire 14G 14 Gauge Wire	WHT CHR

ACCESSORIES: (Order Separately)

Cat. #	Description
VH	V Hanger
VH-48	V Hanger w/48" Chain & S Hook
S1	Single Siem Set* *Add Length



CH
Y-Shaped Cable/
Paddle Hanger

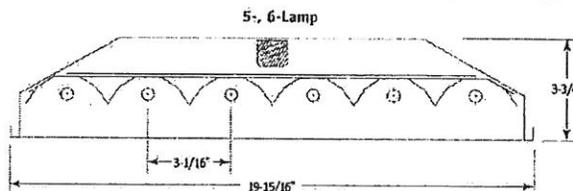
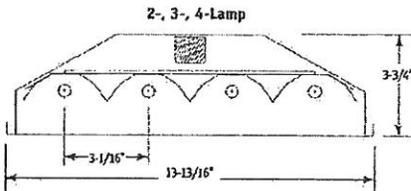


OS
Sensor Detail

PHOTOMETRICS:

Reports available upon request.

DIMENSIONAL DATA/CROSS SECTION:



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www.mercltg.com

SPECIFICATIONS SUBJECT TO CHANGE, 8/10
CONSULT FACTORY WHEN CRITICAL.



FEATURES & SPECIFICATIONS

INTENDED USE

Ideal for mounting above entryways and loading docks.

CONSTRUCTION

Rugged, corrosion-resistant die-cast aluminum back housing and hinged door frame. Castings are sealed with a one-piece gasket to inhibit the entrance of external contaminants. Finish is bronze polyester powder paint for lasting durability.

ELECTRICAL

Ballast is constant wattage autotransformer. Ballast is 100% factory-tested.

Metal halide: super CWA pulse start ballasts, 88% efficient and EISA compliant, are required for 250-400W (must order SCWA option) **Pulse Start** for US shipments only. CSA required for pulse start shipments to Canada. 250M and 400M do not comply with California Title 20 regulations.

Socket: Mogul-base socket, nickel-plated screw shell and center contact.

OPTICS

Refractor is prismatic borosilicate glass. Reflector is die-formed anodized stippled aluminum.

Mogul-base lamp included in carton.

INSTALLATION

Housing is configured for mounting directly over a standard 4" outlet box or for surface wiring via any of three convenient 1/2" threaded conduit entry hubs.

LISTING

UL Listed to US and Canadian safety standards (see Options). Suitable for wet locations (25°C maximum ambient temperature).

Note: Specifications subject to change without notice.

TYPE "B"

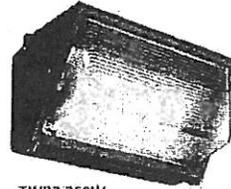
Catalog Number
Notes
Type

Wall Packs

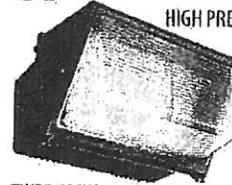
TWR2

METAL HALIDE: 250-400W

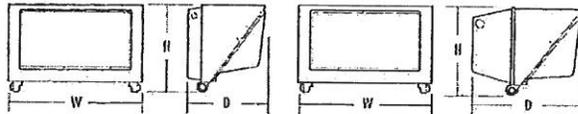
HIGH PRESSURE SODIUM: 250-400W



TWR2 250W



TWR2 400W



TWR2 250W

TWR2 400W

Specifications

Height: 9-1/4 (23.5)
Width: 17-7/8 (45.4)
Depth: 9-3/8 (23.8)
*Weight: 26 lbs/ 11.8 kg

Specifications

Height: 9-1/4 (23.5)
Width: 17-7/8 (45.4)
Depth: 12-1/2 (31.8)
*Weight: 31 lbs/ 14.07 kg

All dimensions shown in inches (centimeters) unless otherwise noted.

*Weight as configured in example below.

ORDERING INFORMATION

Example: TWR2 400M TB SCWA LPI

Catalog Number	Wattage	Voltage	Photocell Included	Lamp Included	Available in Canada
Metal halide					
TWR2 250M 120 PE LPI CSA	250	120	Y	Y	Y
TWR2 250M 120 SCWA PE LPI	250	120	Y	Y	Y
TWR2 250M 277 SCWA PE LPI	250	277	Y	Y	Y
TWR2 250M 120/347 LPI CSA	250	120/347	N	Y	Y
TWR2 250M TB SCWA LPI	250	120/208/240/277	N	Y	N
TWR2 320M 120 SCWA PE LPI	320	120	Y	Y	Y
TWR2 320M 277 SCWA PE LPI	320	277	Y	Y	Y
TWR2 320M TB SCWA LPI	320	120/208/240/277	N	Y	N
TWR2 400M 120 SCWA PE LPI	400	120	Y	Y	Y
TWR2 400M 277 SCWA PE LPI	400	277	Y	Y	Y
TWR2 400M 120/347 LPI CSA	400	120/347	N	Y	Y
TWR2 400M TB SCWA LPI	400	120/208/240/277	N	Y	N
High pressure sodium					
TWR2 250S 120/347 LPI CSA	250	120/347	N	Y	Y
TWR2 250S TB LPI	250	120/208/240/277	N	Y	N
TWR2 400S 120/347 LPI CSA	400	120/347	N	Y	Y
TWR2 400S TB LPI	400	120/208/240/277	N	Y	N

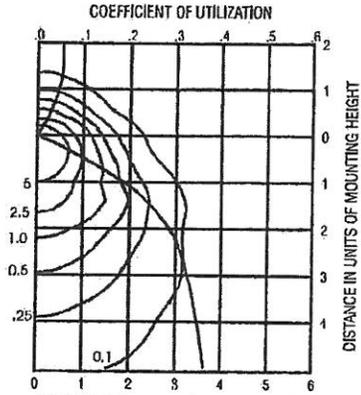
Accessories: Order as separate catalog number.
Shipped separately

TWR2WGU Wireguard

TYPE "B"

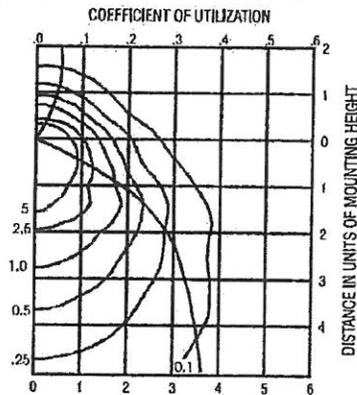
TWR2 High Pressure Sodium/Metal Halide Wall Pack

TWR2 250S Test No. LTL10411



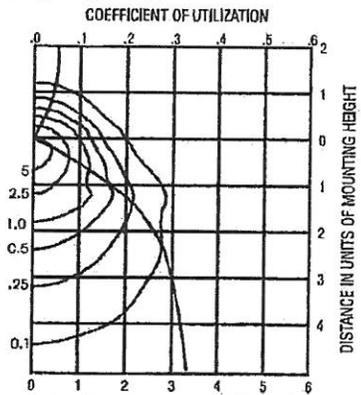
250W High Pressure Sodium lamp, 29000 rated lumens. Footcandle values based on 20' mounting height, Distribution.

TWR2 400S Test No. LTL10376



400W High Pressure Sodium lamp, 50000 rated lumens. Footcandle values based on 20' mounting height, Distribution.

TWR2 250M Test No. LTL10414



250W Metal Halide lamp, 20000 rated lumens. Footcandle values based on 20' mounting height, Distribution.



TWR2-M-S



TYPE "C" & "D"

FEATURES & SPECIFICATIONS

INTENDED USE — Ideal where high brightness and good illumination levels are required such as retail, light industrial and warehouses.

Attributes: Available in one lamp or two lamp configuration.

CONSTRUCTION — Heavy-duty channel, die-formed from code-gauge steel.

Sturdy channel cover secured by captive quarter-turn latch for easy access to wireway.

Combination endplate/channel connector furnished with each fixture.

Finish: Five-stage iron phosphat pretreatment ensures superior paint adhesion and rust resistance. Painted parts finished with high-gloss, baked white enamel.

ELECTRICAL — Thermally protected, resetting, Class P, UL Listed and CSA Certified ballast is standard. Sound rating depends on lamp/ballast combination.

AWM, TFM, THHN wire throughout, rated for required temperatures.

INSTALLATION — For unit or row installations, surface or suspended mounting.

LISTINGS — UL listed to US and Canadian safety standards. Optional: Mexico NOM.

Damp location listed.

Listed for 25 degree C ambient temperature.

WARRANTY — 1-year limited warranty. Complete warranty terms located at www.acuitybrands.com/CustomerResources/terms_and_conditions.aspx.

Note: Specifications subject to change without notice.

Actual performance may differ as a result of end-user environment and application.

Catalog Number
Notes
Type

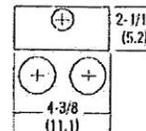
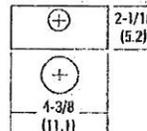
General-Purpose Strip



2', 3', 4', 6' and 8' length
1 or 2 lamps

Specifications

Length:	24" (61.0)
	36" (91.4)
	48" (121.9)
	72" (182.9)
	96" (243.8)
Width:	4-3/8" (11.1)
Fixture Depth:	2-1/16" (5.2)



All dimensions are inches (centimeters) unless otherwise specified.

ORDERING INFORMATION

Lead times will vary depending on options selected. Consult with your sales representative.

Example: C 2 32 MVOLT GEB10S

Series	Number of lamps	Lamp type	Voltage
C General-purpose strip For tandem double length unit, add prefix T. Example: TC	1	T8	MVOLT ¹
	2 lamp not included	17 17W T8 (24")	120
		25 25W T8 (36")	277
	32 32W T8 (48")	347	
		36 30W slimline (36")	Others available
	48 38W slimline (48")	48HO 60W 800mA (48")	
		72 55W slimline (72")	
	96 75W slimline (96")	72HO 85W 800mA (72")	
		96HO 110W 800mA (96")	
		96T8HO 86W 380mA (96")	

Options	
GEB	Electronic ballasts, ≤20%THD ¹
GEB10S	Electronic ballasts, ≤10%THD, instant start ¹
GEB10RS	Electronic ballast, ≤10%THD, rapid start ¹
GEB10PS	Electronic ballast, ≤10%THD, programmed start
BILP	High-efficiency ballast, .78bf (low), instant start
B1HP	T8 high-performance ballast, .88bf (normal), instant start
B2HP	T8 high-performance ballast, 1.20bf (high), instant start
1/4	One four-lamp ballast ¹
EL	Emergency battery pack (nominal 300 lumens) ⁵
GLR	Internal fast-blow fuse (add X for external) ⁶
GMF	Internal slow-blow fuse (add X for external) ⁶
PLR	Plug-in wiring; specify 1, 2, or 3 branch circuits and hot wires (A = Black, B = Red, C = Blue, AB or AC)
TILW	Tandem in-line wiring
CSA	CSA Certified (only required for 347V)
NOM	NOM Certified
AL	Aluminum housing; white enamel finish

Accessories: Order as separate catalog number.			
SQ	Swivel stem hanger (specify length in 2" increments)	HRC ²	Hooker T-bar hanger (1-1/2" from ceiling)
IB	Ceiling spacer (adjusts from 1-1/2" to 2-1/2" from ceiling)	WGCSMR48	Wireguard, 4" white for symmetric reflector ⁷
CONLGC	12" screw-on channel connector	WGCASR48	Wireguard, 4" white for asymmetric reflector ⁷
WGCUH NST	Wireguard, 4" white ⁷	CSMR 48	Symmetric reflector, 4" white, 7" aperture ⁷
HC36	Chain hangers (1 pair, 36" long)	CASR 48	Asymmetric reflector, 4" white, 5-3/4" wide ⁷
HRC ²	Hooker T-bar hanger (flush to ceiling)		

Notes

- Only available with AL option.
- MVOLT standard for 120-277V applications, 50-60 mhz operation. Some options require voltage specified.
- 347V, slimline lamps only.
- Slimline and HO lamps only.
- Not available in slimline.
- Specify voltage.
- Order two for 8' fixtures.

TYPE "C" & "D"

C General-Purpose Strip

MOUNTING DATA

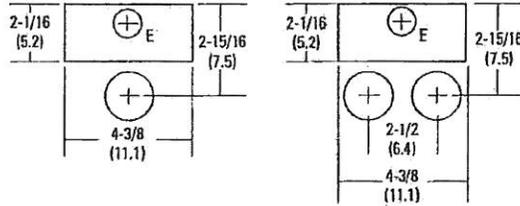
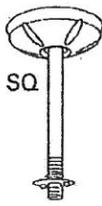
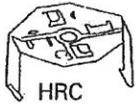
For unit or row installation, surface or suspended mounting.

Unit installation — Minimum of two hangers required.

Row installation — Two hangers per channel required one per fixture plus one per row of CONLGC installed.

Hooker® (HRC) and (HC) Hangers — minimum two per channel (unit and row).

See ACCESSORIES below for hanging devices.



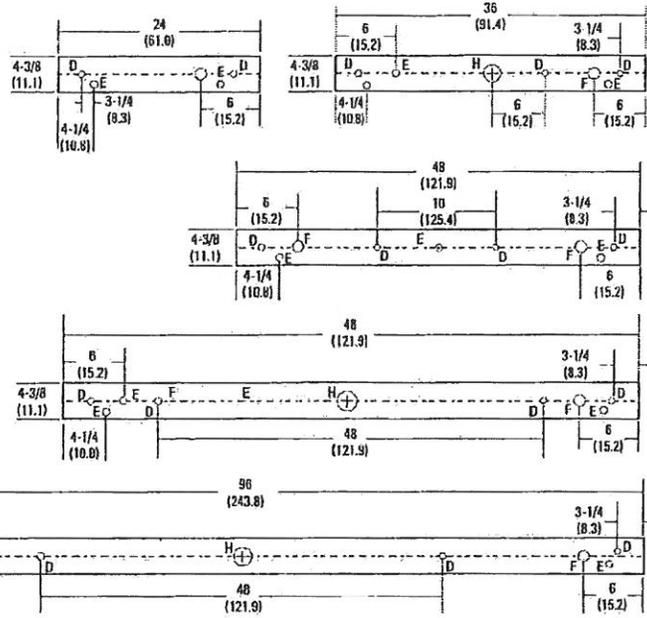
D = 11/16 (17) Dia. K.O.
 E = 7/8 (22) Dia. K.O.
 F = 1-1/4 (32) Dia. K.O.
 H = 2 (51) Dia. K.O.

DIMENSIONS

All dimensions in inches (centimeters) unless otherwise specified. Subject to change without notice.

48", 72", and 96" have only two 7/8" K.O.'s 6" from each end.

24" and 36" have only two 7/8" K.O.'s 3-1/4" from each end.



PHOTOMETRICS

Calculated using the zonal cavity method in accordance with IESNA LM-63 procedure. Floor reflectance are 20%. Lamp configurations shown are typical. All data based on 23°C. Full photometric data on these and other configurations available upon request.

C 2 32

TEST NO: LTL 5181
 LUMENS PER LAMP: 2900

Coefficients of Utilization

pc pw	Coefficients of Utilization											
	80%			70%			50%			10%		
	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%
0	106	106	106	102	102	102	93	93	93			
1	89	84	79	85	80	76	70	74	71			
2	76	68	62	72	66	60	60	61	58			
3	65	57	50	62	55	49	57	51	45			
4	57	48	42	55	47	40	50	43	38			
5	51	42	35	48	40	34	44	37	32			
6	45	36	30	43	35	29	40	33	28			
7	41	32	28	39	31	25	36	29	24			
8	37	29	23	35	28	22	33	26	21			
9	34	26	20	32	25	20	30	23	19			
10	31	23	18	30	23	18	28	21	17			

Zonal Lumen Summary

Zone	Lumens	% Lamp	% Fixture
0° - 30°	842.1	14.5	15.6
0° - 40°	1435.8	24.8	26.7
0° - 60°	2810.1	48.4	52.2
0° - 90°	4362.6	75.2	81.0
90° - 180°	1021.0	17.6	19.0
0° - 180°	5383.6	92.8	100.0

C 2 96

TEST NO: LTL 18310
 LUMENS PER LAMP: 6300

Coefficients of Utilization

pc pw	Coefficients of Utilization											
	80%			70%			50%			10%		
	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%
0	103	103	103	98	98	98	90	90	90			
1	86	82	78	82	78	74	75	72	69			
2	74	67	61	70	64	59	64	59	55			
3	64	56	49	61	54	48	56	49	44			
4	56	47	41	53	46	40	49	42	37			
5	49	41	35	47	39	34	43	37	31			
6	44	36	30	42	34	29	39	32	27			
7	40	32	26	38	30	25	35	28	24			
8	36	28	23	35	27	22	32	25	21			
9	33	25	20	32	25	20	29	23	19			
10	30	23	18	29	22	18	27	21	17			

Zonal Lumen Summary

Zone	Lumens	% Lamp	% Fixture
0° - 30°	1785.8	14.2	15.7
0° - 40°	3042.4	24.1	26.8
0° - 60°	5944.0	47.2	52.3
0° - 90°	9027.5	71.6	79.4
90° - 180°	2341.8	18.6	20.6
0° - 180°	11369.4	90.2	100.0

Energy (Calculated in accordance with NEMA standard LE-5)					
LER.FL	ANNUAL ENERGY COST*	LAMP DESCRIPTION	LAMP LUMENS	BALLST FACTOR	WATTS
86.2	\$2.79	(2) T8 F32	2900	.88	55

*Comparative yearly lighting energy cost per 1000 lumens.

Energy (Calculated in accordance with NEMA standard LE-5)						
ORDERING INFORMATION	LER.FL	ANNUAL ENERGY COST*	LAMP DESCRIPTION	LAMP LUMENS	BALLST FACTOR	WATTS
C 2 32 MVOLT GEB10IS	77.6	\$3.09	F32T8/735	2800	.88	59
C 2 32 MVOLT BILP	93.6	\$2.56	F32T8/835/HT8	3100	.78	48

*Comparative yearly lighting energy cost per 1000 lumens.



An Acuity Brands Company



TYPE "E"

FEATURES & SPECIFICATIONS

INTENDED USE

For wall mount – vertical or horizontal. Ideal for stairwells, corridors, lavatories or any utility application. Certain airborne contaminants can diminish integrity of acrylic. [Click here for Acrylic Environmental Compatibility table for suitable uses.](#)

ATTRIBUTES

Detachable, hinged service tray for ease of installation and maintenance. Night-light options available. Consult factory.

CONSTRUCTION

Housing is precision die-formed from 20 gauge cold-rolled steel. Diffuser is high-impact 50% DR acrylic.

FINISH

Five-stage, iron-phosphate pretreatment assures superior paint adhesion and rust resistance.

Painted parts finished with high-gloss, high-reflectivity baked white polyester paint after fabrication (PAF). Optional architectural black 40% gloss finish.

OPTICAL SYSTEM

High-impact acrylic lower diffuser. Optically engineered for superior light distribution and tinted to mask lamp image and control glare. Easy snap-in installation.

ELECTRICAL SYSTEM

Thermally-protected, resetting, Class P, HPF, non-PCB, UL Listed, CSA Certified ballast is standard. Luminaire is suitable for damp locations. AWM, TFN or THHN wire used throughout, rated for required temperatures.

UL/CSA listed ballast disconnect w/strain relief and leads provided standard.

LISTING

UL Listed to US and Canadian safety standards. Optional: Mexico NOM.

WARRANTY

Guaranteed for one year against mechanical defects in manufacture.

Catalog Number	
Notes	Type

Premium Wall Bracket

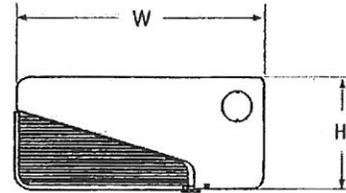
WP



T5 and T8
2', 3' or 4' Lengths
1 or 2 Lamps

Specifications

Length: 24 (60.96), 36 (91.44) or 48 (121.92)
Width: 7-3/16 (18.26)
Depth: 3-1/4 (8.26)



All dimensions are inches (centimeters). Specifications subject to change without notice.

ORDERING INFORMATION

For shortest lead times, configure product using **standard options (shown in bold)**.

Example: WP 2 32 MVOLT GEB10IS

WP		Lamp type	Up-light shielding type	Voltage	Options
Series	WP Wall bracket	17 17W T8 (24")	(blank) #12 pattern inverted 0.125" thick uplight lens	120	2/1 Two 1-lamp ballasts ^{2,3}
		25 25W T8 (36")	ACF125 Matte white 0.125" thick flat acrylic uplight lens	277	GEB10IS Electronic ballasts, ≤ 10% THD, instant start
Number of lamps	2	32 32W T8 (48")		PCL12125V #12 pattern, inverted 0.125" thick polycarbonate uplight lens	347
		14 14W T5 (24") ¹	DO Downlight only. Standard high-impact acrylic lower diffuser, solid metal housing		MVOLT
Not included.	2	21 21W T5 (36") ¹		DO Downlight only. Standard high-impact acrylic lower diffuser, solid metal housing	Others available.
		28 28W T5 (48") ¹	GMF Internal slow-blow fuse		
		24 24W T5HO (24") ¹			TPS Tamperproof attachment of lower diffuser
		39 39W T5HO (36") ¹			MB Architectural black finish, 40% gloss
		54 54W T5HO (48") ¹			BF Internal baffle for up/down light separation ⁴

- NOTES:
- All T5 lamp types use GEB10PS ballast only.
 - Must be specified with S2, S4 or BF options.
 - BF option must be specified if separation of up and down light is desired.
 - Requires 2/1 option.
 - For optional locations, consult factory.
 - Supplied with standard high-impact acrylic lower diffuser.
 - Applications requiring mounting flush with both ceiling and wall, require DO option.

Accessories

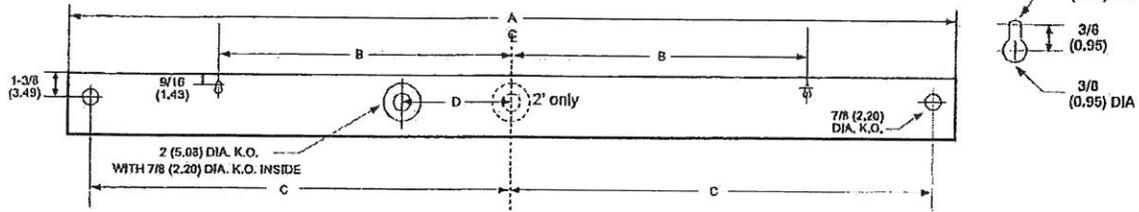
Order as separate catalog number.

U4220 Hex base driver bit, Torx TX20, for tamper-resistant screws with center pin.

WP Wall Bracket, Premium

TYPE "E"

MOUNTING DATA



DIMENSIONS

Inches (centimeters). Subject to change without notice.

A	B	C	D
24-7/16" (62.07)	8" (20.32)	10-15/16" (27.78)	----
36-7/16" (92.55)	16" (40.64)	16-15/16" (43.02)	4-13/16" (12.22)
48-7/16" (123.03)	16" (40.64)	22-15/16" (58.26)	4-13/16" (12.22)

PHOTOMETRICS

Photometry derived in accordance with IESNA LM4 procedure. Vertical and horizontal illuminance is calculated with fixture mounted 7' above floor. Reflectances 80/50/20 %. Full photometric data available upon request.

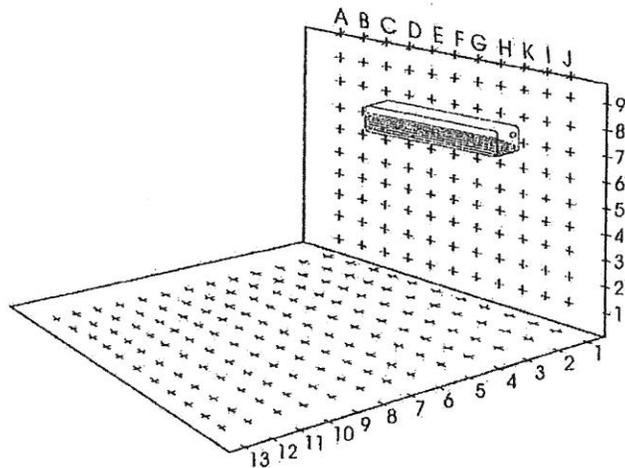
WP 2.32

Report LTL 6508

Initial Point (Illuminance on wall and horizontal work surface. (fc)

X and Y coordinates are on 12" centers.

X	A	B	C	D	E	F	G	H	I	J	K
9	3	4	4	5	6	6	6	5	4	4	3
8	3	4	4	6	8	8	8	6	4	4	3
7	4	4	5						5	4	4
6	4	4	4	12	22	23	22	12	4	4	4
Vert. 5	4	4	4	5	7	7	7	5	4	4	4
4	4	4	4	4	4	4	4	4	4	4	4
3	4	4	3	3	3	3	3	3	3	3	4
2	4	3	3	3	4	4	4	4	3	3	4
1	3	3	3	3	4	4	4	3	3	3	3
1	10	12	15	17	18	19	18	17	15	12	10
2	11	13	15	17	19	19	19	17	15	13	11
3	11	13	15	16	18	18	18	16	15	13	11
4	10	12	13	15	16	16	16	15	13	12	10
5	9	11	12	13	14	14	14	13	12	11	9
6	8	9	10	11	12	12	11	10	9	8	7
Horiz. 7	7	8	9	9	10	10	10	9	9	8	7
8	6	7	7	8	8	8	8	8	7	7	6
9	6	6	6	7	7	7	7	7	6	6	6
10	5	5	6	6	6	6	6	6	5	5	5
11	4	5	5	5	5	5	5	5	5	4	4
12	4	4	5	5	5	5	5	5	5	4	4
13	4	4	4	4	4	4	4	4	4	4	4



An Acuity Brands Company

Sheet #: WP

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Lithonia Lighting
Fluorescent
One Lithonia Way, Conyers, GA 30012-3957
Phone: 800-858-7763 Fax: 770-929-8789
www.lithonia.com



STATE OF RHODE ISLAND AND PROVIDENCE PLANTATIONS

Department of Labor and Training

Center General Complex

1511 Pontiac Avenue
Cranston, RI 02920-4407

TTY: Via RI Relay 711

Lincoln D. Chafee
Governor
Charles J. Fogarty
Director

STATE CONTRACT ADDENDUM

RHODE ISLAND DEPARTMENT OF LABOR AND TRAINING

PREVAILING WAGE REQUIREMENTS
(37-13-1 ET SEQ.)

The prevailing wage requirements are generally set forth in RIGL 37-13-1 et seq. These requirements refer to the prevailing rate of pay for regular, holiday, and overtime wages to be paid to each craftsmen, mechanic, teamster, laborer, or other type of worker performing work on public works projects when state or municipal funds exceed one thousand dollars (\$1,000).

All Prevailing Wage Contractors and Subcontractors are required to:

1. Submit to the Awarding Authority a list of the contractor's subcontractors for any part or all of the prevailing wage work in accordance with RIGL § 37-13-4;
2. Pay all prevailing wage employees at least once per week and in accordance with RIGL §37-13-7 (see Appendix B attached);
3. Post the prevailing wage rate scale and the Department of Labor and Training's prevailing wage poster in a prominent and easily accessible place on the work site in accordance with RIGL §37-13-11; posters may be downloaded at www.dlt.ri.gov/pw/Posters.htm .poster/htm or obtained from the Department of Labor and Training, Center General Complex, 1511 Pontiac Avenue, Cranston, Rhode Island;
4. Access the Department of Labor and Training website, at www.dlt.ri.gov on or before July 1st of each year, until such time as the contract is completed, to ascertain the current prevailing wage rates and the amount of payment or contributions for each covered prevailing wage employee and make any necessary adjustments to the covered employee's prevailing wage rates effective July 1st of each year in compliance with RIGL §37-13-8;
5. Attach a copy of this CONTRACT ADDENDUM and its attachments as a binding obligation to any and all contracts between the contractor and any

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STATE OF RHODE ISLAND AND PROVIDENCE PLANTATIONS

Department of Labor and Training

Center General Complex
1511 Pontiac Avenue
Cranston, RI 02920-4407

Telephone; (401) 462-8000
TTY; Via RI Relay 711

Lincoln D. Chafee
Governor
Charles J. Fogarty
Director

subcontractors and their assignees for prevailing wage work performed pursuant to this contract;

6. Provide for the payment of overtime for prevailing wage employees who work in excess of eight (8) hours in any one day or forty (40) hours in any one week as provided by RIGL §37-13-10;
7. Maintain accurate prevailing wage employee payroll records on a Rhode Island Certified Weekly Payroll form available for download at www.dlt.ri.gov/pw.forms/htm, as required by RIGL §37-13-13, and make those records available to the Department of Labor and Training upon request;
8. Furnish the fully executed RI Certified Weekly Payroll Form to the awarding authority on a monthly basis for all work completed in the preceding month.
9. For general or primary contracts one million dollars (\$1,000,000) or more, shall maintain on the work site a fully executed RI Certified Prevailing Wage Daily Log listing the contractor's employees employed each day on the public works site; the RI Certified Prevailing Wage Daily Log shall be available for inspection on the public works site at all times; this rule shall not apply to road, highway, or bridge public works projects. Where applicable, furnish both the Rhode Island Certified Prevailing Wage Daily Log together with the Rhode Island Weekly Certified Payroll to the awarding authority.
10. Assure that all covered prevailing wage employees on construction projects with a total project cost of one hundred thousand dollars (\$100,000) or more has a OSHA ten (10) hour construction safety certification in compliance with RIGL § 37-23-1;
11. Employ apprentices for the performance of the awarded contract when the contract is valued at one million dollars (\$1,000,000) or more, and comply with the apprentice to journey person ratio for each trade approved by the apprenticeship council of the Department of Labor and Training in compliance with RIGL §37-13-3.1;
12. Assure that all prevailing wage employees who perform work which requires a Rhode Island trade license possess the appropriate Rhode Island trade license in compliance with Rhode Island law; and

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13. Comply with all applicable provisions of RIGL §37-13-1, et. seq;

Any questions or concerns regarding this CONTRACT ADDENDUM should be addressed to the contractor or subcontractor's attorney. Additional Prevailing Wage information may be obtained from the Department of Labor and Training at www.dlt.ri.gov/pw.

CERTIFICATION

I hereby certify that I have reviewed this CONTRACT ADDENDUM and understand my obligations as stated above.

By: Caroline Calcagni

Title: President

Subscribed and sworn before me this 28th day of Jan, 2014.

Christie Murphy
Notary Public
My commission expires: 2-22-15

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TTY via RI Relay 711



Interchange Corporate Center
450 Plymouth Road, Suite 400
Plymouth Meeting, PA. 19462-1644
Ph. (610) 832-8240

BID BOND

Bond Number: N/A

KNOW ALL MEN BY THESE PRESENTS, that we Calson Construction Corporation,
34 Oakdale Avenue, Johnston, RI 02919 as principal (the "Principal"),
and LIBERTY MUTUAL INSURANCE COMPANY, a Massachusetts stock insurance company, as surety (the
"Surety"), are held and firmly bound unto State of Rhode Island and Providence Plantations,
Department of Administration, One Capitol Hill, Providence, RI 02908 as obligee (the "Obligee"), in
the penal sum of FIVE PERCENT OF THE AMOUNT OF THE ACCOMPANYING BID

_____ Dollars (\$ 5% of Bid),
for the payment of which sum well and truly to be made, the said Principal and the said Surety, bind ourselves, our
heirs, executors, administrators, successors and assigns, jointly and severally, firmly by these presents.

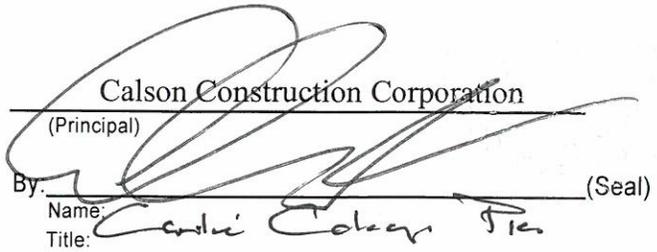
WHEREAS, the Principal has submitted a bid for: _____
DOT Midstate Facility Lighting Upgrade
Project # 7548382

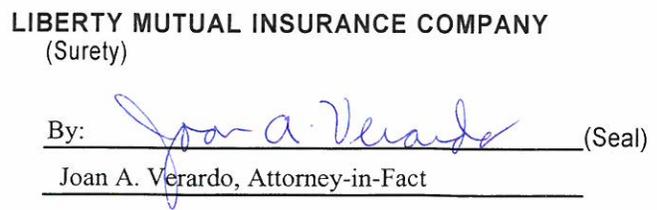
NOW, THEREFORE, if the Obligee shall accept the bid of the Principal within the period specified therein, or, if no
period be specified, within sixty (60) days after opening, and the Principal shall enter into a contract with the
Obligee in accordance with the terms of such bid, and give such bond or bonds as may be specified in the bidding
or contract documents, or in the event of the failure of the Principal to enter into such contract and give such
bond or bonds, if the Principal shall pay to the Obligee the difference in money not to exceed the penal sum
hereof between the amount specified in said bid and such larger amount for which the Obligee may in good faith
contract with another party to perform the work covered by said bid, then this obligation shall be null and void;
otherwise to remain in full force and effect. In no event shall the liability hereunder exceed the penal sum hereof.

PROVIDED AND SUBJECT TO THE CONDITION PRECEDENT, that any claim by Obligee under this bond must
be submitted in writing by registered mail, to the attention of the Surety Law Department at the address above,
within 120 days of the date of this bond. Any suit under this bond must be instituted before the expiration of one
(1) year from the date of this bond. If the provisions of this paragraph are void or prohibited by law, the minimum
period of limitation available to sureties as a defense in the jurisdiction of the suit shall apply.

DATED as of this 28th day of January, 2014

WITNESS / ATTEST: 

Calson Construction Corporation
(Principal)
By:  (Seal)
Name: Caroli Colquhoun
Title: President

LIBERTY MUTUAL INSURANCE COMPANY
(Surety)
By:  (Seal)
Joan A. Verardo, Attorney-in-Fact

THIS POWER OF ATTORNEY IS NOT VALID UNLESS IT IS PRINTED ON RED BACKGROUND.

This Power of Attorney limits the acts of those named herein, and they have no authority to bind the Company except in the manner and to the extent herein stated.

Certificate No. 5716691

American Fire and Casualty Company
The Ohio Casualty Insurance Company

Liberty Mutual Insurance Company
West American Insurance Company

POWER OF ATTORNEY

KNOWN ALL PERSONS BY THESE PRESENTS: That American Fire & Casualty Company and The Ohio Casualty Insurance Company are corporations duly organized under the laws of the State of New Hampshire, that Liberty Mutual Insurance Company is a corporation duly organized under the laws of the State of Massachusetts, and West American Insurance Company is a corporation duly organized under the laws of the State of Indiana (herein collectively called the "Companies"), pursuant to and by authority herein set forth, does hereby name, constitute and appoint, Joan A. Verardo; Michael E. Bromage; Phyllis A. Nigris; Roger E. Watson; Donald L. Goodrich

all of the city of Cranston, state of RI each individually if there be more than one named, its true and lawful attorney-in-fact to make, execute, seal, acknowledge and deliver, for and on its behalf as surety and as its act and deed, any and all undertakings, bonds, recognizances and other surety obligations, in pursuance of these presents and shall be as binding upon the Companies as if they have been duly signed by the president and attested by the secretary of the Companies in their own proper persons.

IN WITNESS WHEREOF, this Power of Attorney has been subscribed by an authorized officer or official of the Companies and the corporate seals of the Companies have been affixed thereto this 1st day of December, 2012.



American Fire and Casualty Company
The Ohio Casualty Insurance Company
Liberty Mutual Insurance Company
West American Insurance Company

By: Gregory W. Davenport
Gregory W. Davenport, Assistant Secretary

STATE OF WASHINGTON ss
COUNTY OF KING

On this 1st day of December, 2012, before me personally appeared Gregory W. Davenport, who acknowledged himself to be the Assistant Secretary of American Fire and Casualty Company, Liberty Mutual Insurance Company, The Ohio Casualty Company, and West American Insurance Company, and that he, as such, being authorized so to do, execute the foregoing instrument for the purposes therein contained by signing on behalf of the corporations by himself as a duly authorized officer.

IN WITNESS WHEREOF, I have hereunto subscribed my name and affixed my notarial seal at Seattle, Washington, on the day and year first above written.



By: KD Riley
KD Riley, Notary Public

This Power of Attorney is made and executed pursuant to and by authority of the following By-laws and Authorizations of American Fire and Casualty Company, The Ohio Casualty Insurance Company, Liberty Mutual Insurance Company, and West American Insurance Company which resolutions are now in full force and effect reading as follows:

ARTICLE IV – OFFICERS – Section 12. Power of Attorney. Any officer or other official of the Corporation authorized for that purpose in writing by the Chairman or the President, and subject to such limitation as the Chairman or the President may prescribe, shall appoint such attorneys-in-fact, as may be necessary to act in behalf of the Corporation to make, execute, seal, acknowledge and deliver as surety any and all undertakings, bonds, recognizances and other surety obligations. Such attorneys-in-fact, subject to the limitations set forth in their respective powers of attorney, shall have full power to bind the Corporation by their signature and execution of any such instruments and to attach thereto the seal of the Corporation. When so executed, such instruments shall be as binding as if signed by the President and attested to by the Secretary. Any power or authority granted to any representative or attorney-in-fact under the provisions of this article may be revoked at any time by the Board, the Chairman, the President or by the officer or officers granting such power or authority.

ARTICLE XIII – Execution of Contracts – SECTION 5. Surety Bonds and Undertakings. Any officer of the Company authorized for that purpose in writing by the chairman or the president, and subject to such limitations as the chairman or the president may prescribe, shall appoint such attorneys-in-fact, as may be necessary to act in behalf of the Company to make, execute, seal, acknowledge and deliver as surety any and all undertakings, bonds, recognizances and other surety obligations. Such attorneys-in-fact subject to the limitations set forth in their respective powers of attorney, shall have full power to bind the Company by their signature and execution of any such instruments and to attach thereto the seal of the Company. When so executed such instruments shall be as binding as if signed by the president and attested by the secretary.

Certificate of Designation – The President of the Company, acting pursuant to the Bylaws of the Company, authorizes Gregory W. Davenport, Assistant Secretary to appoint such attorneys-in-fact as may be necessary to act on behalf of the Company to make, execute, seal, acknowledge and deliver as surety any and all undertakings, bonds, recognizances and other surety obligations.

Authorization – By unanimous consent of the Company's Board of Directors, the Company consents that facsimile or mechanically reproduced signature of any assistant secretary of the Company, wherever appearing upon a certified copy of any power of attorney issued by the Company in connection with surety bonds, shall be valid and binding upon the Company with the same force and effect as though manually affixed.

I, David M. Carey, the undersigned, Assistant Secretary, of American Fire and Casualty Company, The Ohio Casualty Insurance Company, Liberty Mutual Insurance Company, and West American Insurance Company do hereby certify that the original power of attorney of which the foregoing is a full, true and correct copy of the Power of Attorney executed by said Companies, is in full force and effect and has not been revoked.

IN TESTIMONY WHEREOF, I have hereunto set my hand and affixed the seals of said Companies this 28th day of January, 2014.



By: David M. Carey
David M. Carey, Assistant Secretary

Not valid for mortgage, note, loan, letter of credit, bank deposit, currency rate, interest rate or residual value guarantees.

To confirm the validity of this Power of Attorney call 1-610-832-8240 between 9:00 am and 4:30 pm EST on any business day.

ELECTRICAL CORP AC003078
A-003078 B-000858
CALSON CONSTRUCTION CORPORATIO

STEPHEN L CAPOZZOLI
34 OAKDALE AVENUE
JOHNSTON RI 02919



Ronald R. Ambrose
Administrator

12/31/2015
Expiration Date