



Illinois Department of Transportation

2300 South Dirksen Parkway / Springfield, Illinois / 62764

September 4, 2026

SUBJECT FAP Route 63 (US 24)
Project BR-L5PX(731)
Section (1ZB1)BDR-1
Adams County
Contract No. 72406

Item No. 060, September 18th, 2026, Letting
Addendum A

NOTICE TO PROSPECTIVE BIDDERS:

Attached is an addendum to the plans or proposal. This addendum involves revised and/or added material.

1. Revised the Schedule of Prices.
2. Revised page i of the Table of Contents of the Special Provisions.
3. Revised pages 7-16 of the Special Provisions.
4. Revised sheet 5 of the Plans.

Prime contractors must utilize the enclosed material when preparing their bid and must include any changes to the Schedule of Prices in their bid.

Very truly yours,

A handwritten signature in black ink, appearing to read 'Jack A. Elston'.

Jack A. Elston, P.E.
Bureau Chief, Design and Environment

MTS

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reasonable thickness as to fill the crack but not leave puddles or pools. Puddles or pools shall be spread out using hand screed if necessary. The sealant shall be allowed to cure before opening to traffic.

Method of Measurement. This work shall be measured for payment in feet along the total length of crack that is sealed.

Basis of Payment. This work will be paid for at the contract unit price per FOOT for JOINT SEALING (PATCHES).

LUMINAIRE, LED

Effective: February 1, 2016

Description. This work shall consist of furnishing and installing LED luminaire as shown on the plans, as specified herein. The luminaire including the housing, driver, and optical assembly shall be assembled in the U.S.A. The luminaire shall be assembled by and manufactured by the same manufacturer. The luminaire shall be in compliance with ANSI C136.37. LED light source(s) and driver(s) shall be RoHS compliant.

Submittal Requirements. The Contractor shall submit, for approval, an electronic version of all associated luminaire IES files, AGI32 files and the TM-21 or TM-28 calculator spreadsheet with inputs and reports associated with the project luminaires. The Contractor shall also provide (as a minimum) an electronic (PDF) version of each of the following manufacturer's product data for each type of luminaire:

1. Descriptive literature and catalogue cuts for luminaire, LED driver, and surge protection device.
2. LED drive current, total luminaire input wattage and total luminaire current at the system operating voltage or voltage range and ambient temperature of 25 C.
3. LED efficacy per luminaire expressed in lumens per watt (lpw).
4. Initial delivered lumens at the specified color temperature, drive current, and ambient temperature.
5. Computer photometric calculation reports as specified and in the luminaire performance table.
6. TM-15 BUG rating report.
7. Isofootcandle chart with max candela point and half candela trace indicated.
8. Documentation of manufacturers experience and verification that luminaires were assembled in the U.S.A. as specified.
9. Supporting documentation of compliance with ANSI standards as well as UL listing as specified.
10. Supporting documentation of laboratory accreditations and certifications for specified testing as indicated.
11. Thermal testing documents as specified.
12. IESNA LM-79, LM-80 (or LM-84) and TM-21 (or TM-28) reports as specified.
13. Salt fog test reports and certification as specified.
14. Vibration Characteristics test reports and certification as specified.
15. Ingress protection test reports as specified.
16. Written warranty.

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~~A sample luminaire shall be provided upon request of the Engineer. The sample shall be as proposed for the contract and shall be delivered to the district headquarters.~~

~~**Manufacturer Experience.** The luminaire shall be designed to be incorporated into a lighting system with an expected 20-year lifetime. The luminaire manufacturer shall have a minimum of 33 years of experience manufacturing HID roadway luminaires and shall have a minimum of seven years of experience manufacturing LED roadway luminaires. The manufacturer shall have a minimum of 25,000 total LED roadway luminaires installed on a minimum of 100 separate installations, all within the U.S.A.~~

~~Housing:~~

~~**Material.** The luminaire shall be a single device not requiring onsite assembly for installation. The power supply for the luminaire shall be integral to the unit.~~

~~**Finish.** Painted or finished luminaire surfaces exposed to the environment shall exceed a rating of 6, according to ASTM D1654, after 1000 hours of ASTM B117 testing. The coating shall exhibit no greater than 30% reduction of gloss, according to ASTM D523, after 500 hours of ASTM G154 Cycle 6 QUV® accelerated weathering testing.~~

~~Unless otherwise indicated in the plans, the luminaire color shall be grey.~~

~~The luminaire shall slip fit on a mounting arm with a 2" diameter tenon (2.375" outer diameter), and shall have a barrier to limit the amount of insertion. The slip fitter clamp shall utilize four bolts to clamp to the tenon arm. The luminaire shall be provided with a leveling surface and shall be capable of being tilted $\pm 5^\circ$ from the axis of attachment in 2.5° increments and rotated to any degree with respect to the supporting arm.~~

~~The housing shall be designed to prevent the accumulation of water, ice, dirt, and debris and to ensure maximum heat dissipation.~~

~~The effective projected area of the luminaire shall not exceed 1.6 sq. ft. The total weight of the luminaire(s) and accessories shall not exceed 75 pounds.~~

~~A passive cooling method with no moving, rotating parts, or liquids shall be employed for heat management.~~

~~The luminaire shall include a fully prewired, seven-pin twist lock ANSI C136.41 compliant receptacle. Unused pins shall be connected as directed by the manufacturer and as approved by the Engineer. A shorting cap shall be provided with the luminaire.~~

~~**Vibration Characteristics.** All luminaires shall be vibration tested and pass ANSI C136.31 requirements. Luminaires shall be rated for "3G" peak acceleration. Vibration testing shall be run using the same luminaire in all three axes.~~

~~**Labels and Decals.** All luminaires shall have labels in accordance with ANSI C136.15 for an external label, and ANSI C136.22 for an internal label.~~



~~The luminaire shall be listed for wet locations by an OSHA nationally recognized testing laboratory (NRTL) and shall be compliant with UL 8750 and UL 1598. It shall be identified as such by the NRTL tag/sticker on the inside of the luminaire.~~

~~Hardware. All fasteners shall be stainless steel. Captive screws are required on any components that require maintenance after installation.~~

~~Internal Luminaire Electrical Connections. Quick connect/disconnect plugs shall be supplied between the discrete electrical components within the luminaire such as the driver, surge protection device, and optical assembly for easy removal. The quick connect/disconnect plugs shall be operable without the use of tools while wearing insulated gloves.~~

~~Provisions for any future house side external or internal shielding should be indicated along with means of attachment.~~

~~Circuiting shall be designed to minimize the impact of individual LED failures on the operation of the other LED's.~~

~~Wiring. Wiring within the electrical enclosure shall be rated at 600v, 105°C or higher.~~

~~Driver. The driver shall be integral to the luminaire. Integral driver components shall be mounted in the rear of the luminaire on the inside of a removable door or on a removable mounting pad. Driver wiring shall be connected by means of plugs. Upon unplugging the driver wiring, the entire driver assembly shall be removed for maintenance. The removable door or pad shall be secure when fastened in place, and all individual components shall be secured upon the removable element. Each component shall be readily removable from the removable door or pad for replacement.~~

~~The plugs shall be keyed and shall be operable without the use of special tools by insulated, gloved hands~~

~~The driver shall tolerate indefinite open and short circuit output conditions without damage.~~

~~Ingress Protection. The driver Ingress protection (IP) rating as defined in the ANSI/IEC 60529 standard shall have an IP66 rating.~~

~~Input Voltage. The driver shall be suitable for operation over a range of 120 to 277 volts or 347 to 480 volts as required by the system operating voltage.~~

~~Operating Temperature. The driver shall have an operating ambient temperature range of -40°C to 70°C.~~

~~Driver Life. The driver shall provide a lifetime of 100,000 hours at 25° C ambient.~~

~~Safety/UL. The driver shall be UL Listed under standard UL 1012.~~

~~Power Factor. Drivers shall maintain a power factor of 0.9 or higher and total harmonic distortion of less than 20%.~~

~~Driver Efficiency. Efficiency of the driver is defined by the ratio of output power and input power. The driver shall deliver a maximum efficiency of >90% at maximum load and an efficiency of >85% for the driver operating at 50% power.~~

~~Electrical Interference. The driver shall meet the electromagnetic compatibility (EMC) requirements per FCC Title 47 Code of Federal Regulations (CFR) Part 15 Class A.~~

~~Thermal Fold Back. The driver shall reduce the current to the LED module if the driver is overheating due to abnormal conditions.~~

~~Dimming. The driver shall have dimming capability. The driver shall accept a dimming control signal that is compliant with the 0-10V protocol in accordance with ANSI C136.37.~~

~~Leakage Current. The driver shall comply with safety standards in accordance with IEC 61347-1.~~

~~The surge protection device shall be UL 1449 labeled as type 4 and be an integral part of the luminaire. The SPD shall be compliant with ANSI C136.2-2014 (Draft).~~

~~Thermal Performance. Thermal testing shall be provided as defined by ANSI/UL 1598. The luminaire shall start and operate in the ambient temperature range specified in the driver section. The maximum rated case temperature of the driver, LEDs, and other internal components shall not be exceeded when the luminaire is operated in the ambient temperature range specified.~~

~~Mechanical design of protruding external surfaces (heat sink fins) shall facilitate hose-down cleaning and discourage debris accumulation. Testing shall be submitted (whenever is available) to show the maximum rated case temperature of the driver, LEDs, and other internal components are not exceeded when the luminaire is operated with the heat sink filled with debris.~~

~~LED Optical Assembly. The LED optical assembly shall be a scalable array consisting of discrete LED panels or modules. Each panel or module shall have a minimum IP rating of 66.~~

~~The optical assembly shall utilize high brightness, long life, minimum 70 CRI, 4,000K color temperature (+/- 300K) LEDs binned in accordance with ANSI C78.377. Lenses shall be UV-stabilized acrylic or glass.~~

~~Lumen depreciation at 50,000 hours of operation shall not exceed 15% of initial lumen output at the specified LED drive current and an ambient temperature of 25° C.~~

~~The luminaire may or may not have a glass lens over the LED modules. If a glass lens is used, it must be a flat lens. Material other than glass will not be acceptable. If a glass lens is not used, the LED modules may not protrude lower than the luminaire housing.~~

~~The assembly shall have individual serial numbers or other means for manufacturer tracking.~~

~~Photometric Performance. Luminaires shall be tested according to IESNA LM-79. This testing shall be performed by a test laboratory holding accreditation from the National Institute of Standards and Technology (NIST) NVLAP for the IESNA LM-79 test procedure. Data reports as a minimum shall yield an isofootcandle chart with max candela point and half candela trace indicated, maximum plane and maximum cone plots of candela, a candlepower table (house and~~

~~street side), a coefficient of utilization chart, a luminous flux distribution table, spectral distribution plots, chromaticity plots, and other standard report outputs of the above mentioned tests.~~

~~Lumen maintenance shall be measured for the LEDs according to LM-80 or for the luminaires according to LM-84. The LM-80 report shall be based on a minimum of 6,000 hours, yet 10,000 hour reports shall be provided for luminaires where those tests have been completed.~~

~~The luminaire shall have a BUG rating of back light B3 or less, up light rating of U0, and a glare rating of G3 or less unless otherwise indicated in the luminaire performance table.~~

~~Lumen Maintenance Projection. The luminaire shall have long term lumen maintenance documented according to IESNA TM-21 or IESNA TM-28. Ambient temperature shall be 25⁰ C. The submitted calculations shall incorporate the light loss factors as indicated the respective performance tables.~~

~~Photometric Calculations. Submitted report shall include a luminaire classification system graph with both the recorded lumen value and percent lumens by zone along with the BUG rating according to IESNA TM-15.~~

~~Complete point-by-point luminance and veiling luminance calculations as well as listings of all indicated averages and ratios as applicable shall be provided in accordance with IESNA RP-8 recommendations. Lighting calculations shall be performed using AGi32 software with all luminance calculations performed to two decimal places (i.e. x.xx cd/m²). Uniformity ratios shall also be calculated to two decimal places (i.e. x.xx:1). Calculation results shall demonstrate that the submitted luminaire meets the lighting metrics specified in the project Luminaire Performance Table(s). Values shall be rounded to the number of significant digits indicated in the luminaire performance table(s).~~

~~All photometry must be **photopic**. Scotopic or mesopic factors will not be allowed.~~



IDOT DISTRICT 6 LUMINAIRE PERFORMANCE TABLE

ROADWAY LIGHTING

GIVEN CONDITIONS

ROADWAY DATA	Pavement Width	(ft)
	Number of Lanes	
	Median Width	
	I.E.S. Surface Classification	R3
	Q-Zero Value	.07
LIGHT POLE DATA	Mounting Height	(ft)
	Mast Arm Length	(ft)
	Pole Set Back From Edge Of Pavement	(ft)
LUMINAIRE DATA	Lumens	This is a range
	BUG Rating	B3—U0—G3 (Max)
	I.E.S. Vertical Distribution	Medium
	I.E.S. Lateral Distribution	Type-I
	Total Light Loss Factor	0.70
LAYOUT DATA	Spacing	(ft)
	Configuration	Single Sided
	Luminaire Overhang over EOP	(ft)

NOTE: Variations from the above specified I.E.S. distribution pattern may be requested and acceptance of variations will be subject to review by the Engineer based on how well the performance requirements are met.

PERFORMANCE REQUIREMENTS

NOTE: These performance requirements shall be the minimum acceptable standards of photometric performance for the luminaire, based on the given conditions listed above.

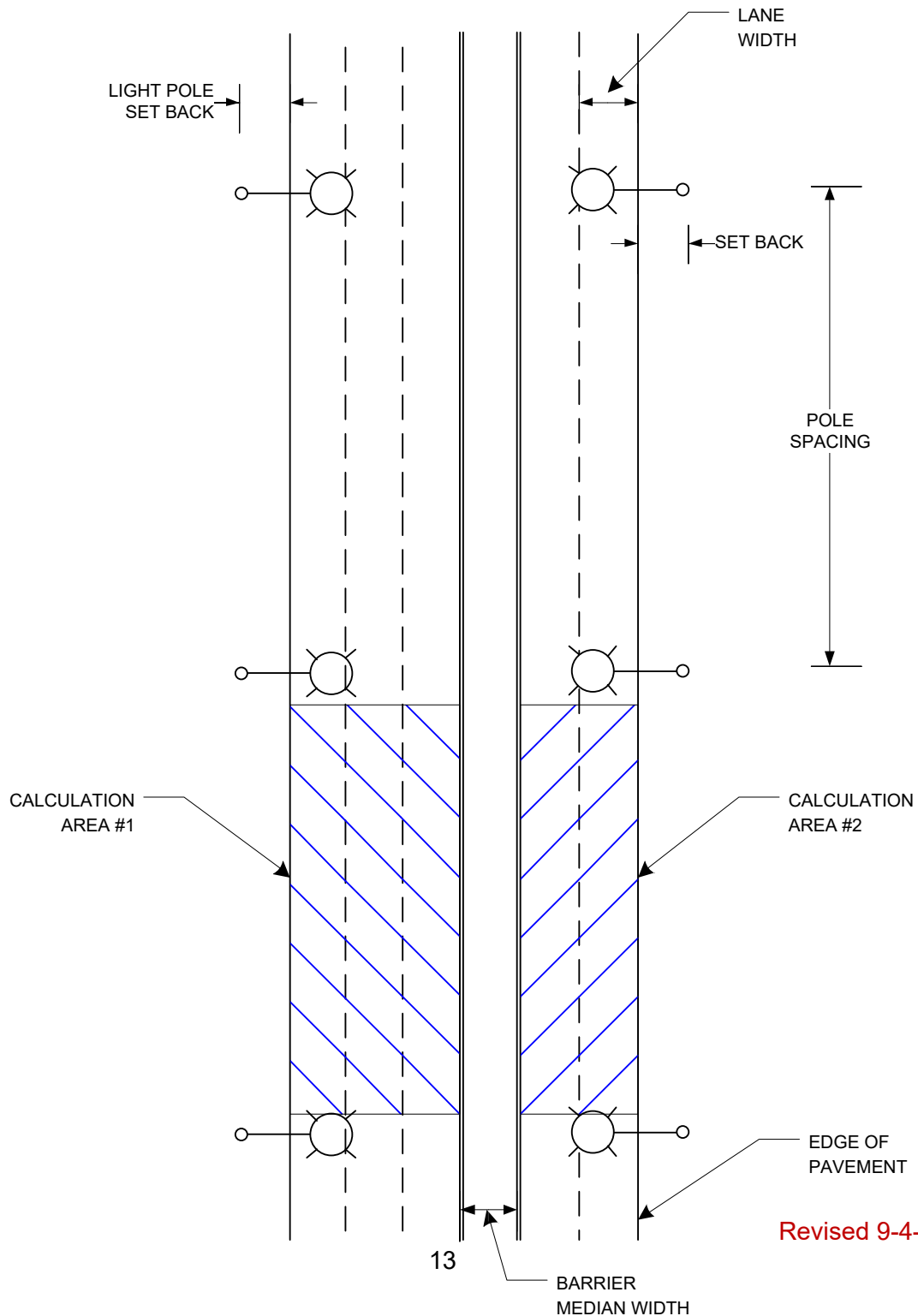
ROADWAY LUMINANCE	Average Luminance, L_{AVE}	Cd/m ² (Max)
		Cd/m ² (Min)
	Uniformity Ratio, L_{AVE}/L_{MIN}	(Max)
	Uniformity Ratio, L_{MAX}/L_{MIN}	(Max)
	Veiling Luminance Ratio, L_V/L_{AVE}	(Max)



INSERT DRAWING OF POLE LAYOUT. THIS IS A SAMPLE DIAGRAM.

**ALL DIAGRAMS MUST BE PROJECT SPECIFIC CORDINATED WITH THE
LUMINAIRE PERFORMANCE TABLES.**

INTERSECTION OR CURVES CANNOT BE USED.



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~~Independent Testing. When a contract has 30 or more luminaires of the same type (distribution type and lumen output/wattage), that luminaire type shall be independently tested, unless otherwise noted. The quantity of luminaires to be tested shall be as specified in the following table.~~

Contract Quantity	Luminaires to be Tested
1-29	0 (unless otherwise noted)
30-80	2
81-130	3
131-180	4
181-230	5
231-280	6
281-330	7

~~The Contractor shall coordinate the testing with the contract schedule taking into account submittal, manufacturing, testing, and installation lead times and deadlines.~~

~~The electrical engineer shall select from all the project luminaires at the Contractor's or distributor's storage facility the luminaires for testing. In all cases, the selection of luminaires shall be a random selection from the entire completed lot of luminaires required for the contract. Selections from partial lots will not be allowed. An additional luminaire shall also be selected for physical inspection by the Engineer at the district headquarters. This luminaire will be available for the Contractor to pick up at a later date to be installed under this contract. This luminaire is in addition to the luminaire required as a part of the submittal process specified elsewhere.~~

~~Luminaires shall be tested at a NVLAP accredited laboratory approved for each of the required tests. All costs associated with luminaire testing shall be included in the bid price of the luminaire. The selection of the proposed independent laboratory shall be presented with the information submitted for approval.~~

~~The testing performed shall include photometric and electrical testing.~~

~~Photometric testing shall be according to IES recommendations and as a minimum, shall yield an isofootcandle chart with max candela point and half candela trace indicated, an isocandela diagram, maximum planned and maximum cone plots of candela, a candlepower table (House and street side), a coefficient of utilization chart, a luminous flux distribution table, BUG rating report, and complete calculations based on specified requirements and test results.~~

~~Electrical testing shall conform to NEMA and ANSI standards and, as a minimum, shall include a complete check of wiring connections and a table of characteristics showing input amperes, watts, power factor, total harmonic distortion, and LED drive current.~~

~~Two copies of the summary report and the test results (including CDROM) shall be certified by the test laboratory and shall be sent by certified mail directly to the Engineer.~~

To: ~~District Engineer~~
Attn: ~~Bureau Chief of Traffic Operations~~
~~Illinois Department of Transportation~~



3215 Executive Park Drive
Springfield, IL 62703

~~The package shall state "luminaire test reports" and the contract number clearly. A copy of this material shall be sent to the Contractor and the Engineer at the same time.~~

~~Photometric performance shall meet or exceed that of the specified values. If the luminaire does not meet the specified photometric values, the luminaire has failed regardless of whether the test results meet the submitted factory data.~~

~~Should any of the tested luminaires of a given type and distribution fail to satisfy the specifications and perform according to approved submittal information, the luminaire type of that distribution type and wattage shall be unacceptable and be replaced by alternate equipment meeting the specifications with the submittal and testing process repeated in their entirety; or corrections made to achieve required performance.~~

~~In the case of corrections, the Contractor shall advise the Engineer of the proposed corrections and shall request a repeat of the specified testing, and, if the corrections are deemed reasonable by the Engineer, the testing process shall be repeated in its entirety. The number of luminaires to be tested shall be the same quantity as originally tested as required in the above table. Retesting, should it become necessary, shall not be grounds for additional compensation or extension of time~~

~~Submittal information shall include a statement of intent to provide the testing as well as a request for approval of the chosen laboratory.~~

~~Installation. Each luminaire shall be installed according to the luminaire manufacturer's recommendations.~~

~~Luminaires which are pole mounted shall be mounted on site such that poles and arms are not left unloaded. Pole mounted luminaires shall be leveled/adjusted after poles are set and vertically aligned before being energized. When mounted on a tenon, care shall be exercised to assure maximum insertion of the mounting tenon. Each luminaire shall be checked to assure compatibility with the project power system. When the night time check of the lighting system by the Engineer indicates that any luminaires are mis-aligned, the mis-aligned luminaires shall be corrected at no additional cost.~~

~~No luminaire shall be installed before it is approved. Where independent testing is required, full approval will not be given until complete test results, demonstrating compliance with the specifications, have been reviewed and accepted by the Engineer.~~

~~Pole wiring shall be provided with the luminaire. Pole wire shall run from handhole to luminaire. Pole wire shall be sized No. 10, rated 600 V, RHW/USE-2, and have copper conductors, stranded in conformance with ASTM B 8. Pole wire shall be insulated with XLP insulation. Wire shall be trained within the pole or sign structure so as to avoid abrasion or damage to the insulation.~~

~~Pole wire shall be extended through the pole, pole grommet, luminaire ring, and any associated arm and tenon. The pole wire shall be terminated in a manner that avoids sharp kinks, pinching, pressure on the insulation, or any other arrangement prone to damaging insulation value and producing poor megger test results. Wires shall be trained away from heat sources within the~~

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~~luminaire. Wires shall be terminated so all strands are extended to the full depth of the terminal lug with the insulation removed far enough so it abuts against the shoulder of the lug but is not compressed as the lug is tightened.~~

~~Included with the pole wiring shall be fusing located in the handhole. Fusing shall be according to Article 1065.01 with the exception that fuses shall be 6 ampere.~~

~~Each luminaire and optical assembly shall be free of all dirt, smudges, etc. Should the optical assembly require cleaning, a luminaire manufacturer approved cleaning procedure shall be used.~~

~~Horizontal mount luminaires shall be installed in a level, horizontal plane, with adjustments as needed to ensure the optics are set perpendicular to the traveled roadway.~~

~~When the pole is bridge mounted, a minimum size stainless steel 1/4-20NC set screw shall be provided to secure the luminaire to the mast arm tenon. A hole shall be drilled and tapped through the tenon and luminaire mounting bracket and then fitted with the screw.~~

~~Warranty. The entire luminaire and all of its component parts shall be covered by a ten year warranty. Failure is when one or more of the following occur:~~

- ~~1) Negligible light output from more than 10% of the discrete LEDs.~~
- ~~2) Significant moisture that deteriorates performance of the luminaire.~~
- ~~3) Driver that continues to operate at a reduced output due to overheating.~~

~~The warranty period shall begin on the date of project final acceptance. A copy of the acceptance letter shall be sent to the luminaire manufacturer and luminaire manufacturer's representative by the Contractor upon final acceptance.~~

~~The replacement luminaire shall be of the same manufacturer, model, and photometric distribution as the original.~~

~~Method of Measurement. LED Luminaire classification shall be as follows:~~

Type	Min Lumens	Max Lumens
A	3,000	12,000
B	12,001	22,000
C	22,001	36,000
D	36,001	50,000

~~Where delivered, lumens is defined as the initial delivered lumens at the specified color temperature.~~

~~Note: Luminaires above the stated maximums for the specified type will not be accepted.~~

~~Basis of Payment. This work will be paid for at the contract unit price per EACH for LUMINAIRE, LED, ROADWAY, of the type indicated.~~