



City of Santa Fe, New Mexico

Memorandum



DATE: January 29th, 2024

TO: Governing Body, Finance Committee and Public Works Committee

VIA: Regina Wheeler
Regina Wheeler, Public Works Director

FROM: Michael Dalmolin, PE, Traffic Operations Engineer

ACTION:

Request for Approval of Agreement for the Conversion of Streetlights with Public Service Company of New Mexico (PNM) for a Total Amount of \$568,511, including NMGR, to Convert Approximately 1,100 PNM-Owned Streetlights to LED Technology Meeting the City's Roadway Lighting Standards. (Michael Dalmolin, PE, Complete Streets Traffic Operations Engineering Supervisor; rdalmolin@santafenm.gov)

BACKGROUND AND SUMMARY:

Streetlights within the City of Santa Fe play a large role in improving roadway safety. In fact, the Federal Highway Administration (FHWA) estimates that street lighting reduces vehicle crashes at night between 33-38% for crashes at intersections and approximately 28% for injury crashes on roadways. The safety benefits of street lighting for vulnerable road users like pedestrians are even greater and is shown to reduce pedestrian injury crashes up to 42%.

The City of Santa Fe owns approximately 3,500 of the 5,550 streetlights in the City and PNM owns most of the remaining 2,000 streetlights in the City. A map of streetlights within the City is attached and shows the locations of City-Owned and PNM-owned streetlights. On February 24, 2021, the City's Governing Body approved a contract to convert City-owned streetlights to Light Emitting Diodes (LED) streetlight technology. In contrast to the existing High-Pressure Sodium (HPS) technology, LEDs reduce power consumption by 60%, have a much longer life span, improve streetlight reliability, are equipped with full cutoff fixtures protecting the night sky, and can be fit with shields to reduce fugitive light trespass out of the right-of-way. At the end of their life cycle, HPS technology is also considered hazardous waste due to the use of mercury and has special disposal requirements by the Environmental Protection Agency (EPA).

After the conversion contract was approved by Governing Body, the City undertook a several months long community-guided design process with the aim to balance meeting the appropriate lighting standards for streets while protecting the night sky and providing visual comfort. With support from the International Dark Sky Association, Governing Body adopted requirements for roadway luminaires in the attached Roadway Lighting Guidelines on May 26th, 2021, and set in motion a \$2,900,000 contract to convert all 3,500 city-owned streetlights to LEDs meeting these new guidelines. Dalkia Energy Solutions was awarded the contract and began the LED conversion of city-owned streetlights in October 2021. The conversion was completed in March 2022 and resulted in 2,563,000 kWh and \$233,000 of energy savings within the first year. The new LED streetlights are performing with high reliability, and we have seen a significant decrease in complaints.

On April 14, 2021, the Governing Body approved a contract with PNM to convert the 2,000 PNM-owned streetlights to LEDs. PNM's streetlight program is governed by Rate 20 set by New Mexico's Public Regulation Commission (PRC) and the LEDs and equipment required by the Roadway Lighting Guidelines was not available in the PRC Rate 20 at the time of the contract. Thus, PNM undertook the regulatory process and achieved adding LEDs meeting the City's Roadway Lighting Guidelines into the "Approved Substitute" list in the Rate 20 Tariff approved for installation on PNM streetlights. Now that

these approved luminaires have been added to the "Approved Substitute" list, the City and PNM have reached a new agreement to proceed with some of the PNM-owned streetlights within the City.

PNM estimates approximately 1,100 streetlights, or about half of the PNM-owned lights within the City, will be converted with the contract amount of \$568,511. Streetlights will be prioritized for conversion using a host of criteria, including if a streetlight has been reported as a nuisance, if the streetlight is important to roadway safety, and what type of streetlight will provide the greatest energy savings. The City currently pays PNM approximately \$620,000 per year for electricity and maintenance of these streetlights based on current pricing in Rate 20. Based on the estimate provided by PNM, the energy and maintenance savings would be \$135,000 per year and thus the project would pay for itself in approximately 4 years.

Phases of this project include PNM procurement, permitting, conversion and billing changes. The conversion phase of the project is estimated to take 6 months after issuance of the Purchase Order (PO) but could take up to a year in case of unforeseen circumstances. The remaining approximately 1,000 PNM owned streetlights will be converted incrementally using Public Works lighting budget through maintenance conversions unless another capital project is funded. The estimated amount of funding needed to complete the remaining fixtures is \$500,000.

Public Engagement will include an Early Neighborhood Notification (ENN) planned for February and the project website, SantafeLED.com will provide information about the conversion and take feedback from the public. Constituents who provided emails during the first conversion will receive updates on the project and be invited to participate in the ENN meeting.

Procurement Method:

The procurement method is exempt from procurement since PNM, the local electric utility company, owns these lights and PRC regulations define the conversion by PNM.

Munis Contract:

Munis Contract # 3204540

Funding Source: Resource Conservation CIP / Debt Service and Lease Revenue Fund

Munis Funding Source/Number: CIP RESRCE - 315

Munis Org Name/Number: SOLAR CIP - 3159980 Att

Munis Object Name/Number: WIP CONSTRUCTION - 572970

Project ID: STREETLTS

ATTACHMENTS:

City of Santa Fe Streetlight Map

Agreement for the Conversion of Streetlights with Public Service Company of New Mexico

City of Santa Fe Roadway Lighting Guidelines

Dalkia City of Santa Fe October Report

Summary of Contracts

Procurement Checklist

Halona Crowe

Reviewed by Halona Crowe

**AGREEMENT FOR THE CONVERSION OF STREETLIGHTS
OWNED BY THE PUBLIC SERVICE COMPANY OF NEW
MEXICO**

This Agreement for the Conversion of Streetlights Owned by the Public Service Company of New Mexico ("Agreement") is made and entered into as of the last date of the parties' signatures below, by and between the Public Service Company of New Mexico ("PNM" or "Company"), a New Mexico Corporation, and the City of Santa Fe ("Santa Fe" or "City"), a municipal corporation (collectively, "Parties").

RECITALS

WHEREAS, PNM owns approximately 2057 streetlights located within the City of Santa Fe;

WHEREAS, the streetlights owned by the Company consist of legacy electric light generation methods, including, without limitation, incandescent, mercury vapor, and high pressure sodium lights;

WHEREAS, Santa Fe has asked PNM to complete a partial conversion of some the Company's streetlights into light-emitting diode ("LED") lights ("LED Streetlight Conversion Project");

WHEREAS, the City has formally approved the LED Streetlight Conversion Project and has also approved and set aside funding in the amount of Five Hundred and Twenty-Five Thousand and 00/100 Dollars (\$525,000.00) to pay for the LED Streetlight Conversion Project;

WHEREAS, the current agreements and rate tariffs between PNM and Santa Fe that govern the provision of electricity to and maintenance of streetlights are as follows:

- (i) Public Service Company of New Mexico Electric Services 17th Revised Rate No. 20 Canceling 16th Revised Rate No. 20 – Integrated System Streetlighting and Floodlighting Service (the "Rate Tariff");
- (ii) Agreement for the Ongoing Incidental and Emergency Maintenance of the Street Lights Owned or Maintained by the City of Santa Fe executed in April of 2021;

WHEREAS, Santa Fe recognizes that the Rate Tariff may be changed through a future rate review proceeding before the New Mexico Public Regulation Commission and desires to proceed with the LED Conversion Project subject to costs that may be assessed by the Company in accordance with the terms and conditions of the Rate Tariff and this Agreement;

WHEREAS, the Company, acting in its capacity as a regulated public utility at all times material hereto, will complete the LED Conversion Project and shall charge Santa Fe for the

costs associated with the completion of the LED Conversion Project in accordance with the terms and conditions of the Rate Tariff and this Agreement; and

WHEREAS, the Parties desire to enter into this Agreement to set forth their respective rights and obligations arising from and related to this partial LED Conversion Project.

NOW THEREFORE, in consideration of the mutual terms, covenants, and conditions set forth in this Agreement, the Parties agree as follows:

AGREEMENT

1. PNM's Duties and Obligations.

a. PNM shall either contract with and pay third-party contractors or use its own crews to complete the LED Conversion Project.

b. PNM will direct its contractors or PNM crews to acquire the LED lights needed for the LED Conversion Project.

c. PNM will coordinate with its contractors or PNM crews to convert the streetlights identified by Santa Fe to LED lights by, among other things, providing to its contractors or PNM crews an LED Light Conversion Schedule that will help facilitate the timely completion of the LED Conversion Project.

d. PNM will endeavor to consider Santa Fe's input regarding the LED Light Conversion Schedule, which will set forth the different phases of the LED Conversion Project, organized by the neighborhoods where the partial conversion of Company-owned streetlights will occur.

e. PNM will direct its contractors or PNM crews to coordinate the appropriate disposal of the old streetlights which will be removed and converted during the LED Conversion Project.

f. PNM will make a good faith effort to complete the LED Conversion Project within twelve (12) months of the signing of this Agreement, although the Company cannot guarantee an exact date of completion, as such date is likely to fluctuate, and the City recognizes that the estimated timeline may change due to the lead time necessary for procuring fixtures from the manufacturer, which PNM currently estimates to be approximately 6 weeks.

g. PNM will charge Santa Fe for the costs associated with the completion of the LED Conversion Project on a monthly basis in accordance with the terms and conditions of the Rate Tariff and this Agreement.

h. PNM will charge to Santa Fe any depreciated value for those poles or lights that need to be permanently removed for this LED Conversion Project m

accordance with the terms and conditions of the Rate Tariff and this Agreement.

i. PNM will work with the City to communicate on a weekly basis regarding the status of the LED Conversion Project, such communication will include updates regarding what PNM-owned lights have been converted to LED.

j. PNM will change the rate to the appropriate Rate Tariff for each streetlight included in the LED Conversion Project after conversion in accordance with Applicable Law and provide the City with a rate change report in the form of Schedule D after the LED Conversion Project has been completed.

2. The Company's Work Limits. Notwithstanding anything to the contrary in this Agreement, PNM shall make a good faith effort to perform its duties and obligations hereunder but shall have no obligation to perform those duties or obligations to the extent that: (i) such duties or obligations would violate the work hours and limitations required by the Company's collective bargaining agreements, other union-related contracts or requirements, and procurement contracts with vendors; or (ii) PNM needs to reallocate personnel that would otherwise perform the duties and obligations to address emergencies or other system needs or outages, within and outside of New Mexico, arising from or related to PNM's electrical service obligations, in PNM's sole discretion.

3. Santa Fe's Duties and Obligations.

a. Santa Fe agrees to issue a Purchase Order to PNM in the amount of Five Hundred and Twenty Five Thousand and 00/100 Dollars (\$525,000.00) including applicable GRT for the completion of the LED Conversion Project, which memorializes in writing Santa Fe's request that PNM convert certain Company-owned streetlights to LED lights within the City of Santa Fe in accordance with the Rate Tariff and this Agreement. PNM will share with Santa Fe certain information regarding Company-owned streetlights, if needed, so that Santa Fe can prepare the Purchase Order contemplated by this Agreement. Such information includes the number of Company-owned streetlights, the geographic location of Company-owned streetlights, and the types of Company-owned streetlights, categorized by light wattage. PNM will also provide Santa Fe with the cost of a conversion to an LED after a contractor has been selected by listing the cost per operational substitute on Appendix A.

b. Santa Fe agrees to include within the Purchase Order the following information: (i) the types of PNM-owned streetlights categorized by light wattage and the chosen operational substitute per Appendix A that Santa Fe wants the Company to convert to LED lights in connection with the LED Conversion Project and the light color and wattage for each chosen LED light. Schedule "A" to this Agreement provides a breakdown of PNM's existing streetlights, categorized by light type and light wattage, and lists the Company's installation allowance for each LED operational substitute, per the terms and conditions of the Rate Tariff and Appendix "A" thereto.

c. Santa Fe acknowledges and agrees that all Company-owned streetlights subject to the LED Conversion Project will be replaced with the approved LED operational substitutes listed in Appendix "A" to the Rate Tariff, and Santa Fe will identify exactly which operational substitutes the City has chosen for the conversion of Company-owned streetlights to LED lights. The operational substitutes chosen by the City shall be set forth on **Schedule "C"** to this Agreement. Santa Fe further acknowledges and agrees that it shall be responsible for all costs associated with the LED Conversion Project which exceed the installation allowances set forth in the Rate Tariff. Those costs include but are not limited to the actual costs incurred by PNM, the costs of additional material or equipment requested by the City, such as light shields, third party actuals, any applicable taxes, the cost of depreciated value in accordance with the language of the Rate Tariff, and the costs of PNM's loads.

d. Santa Fe agrees to pay the Company in accordance with the terms and conditions of the Rate Tariff and this Agreement.

e. The City shall provide PNM with a City Road Obstruction Permit upon application by PNM or its designated contractor.

4. Charges, Payment and Late Payments.

a. Subsection (I)(a) of the Rate Tariff states that, "[u]pon request from the Customer, the Company shall convert or install Company owned street lighting fixtures at its own expense up to the limits provided by the [Rate Tariff], with any remaining expenses being the responsibility of the Customer."

b. Subsection (III)(A)(I)(a) of the Rate Tariff states that, "the Customer shall pay all costs for ... [a]ny conversions of Company-owned Lights or Poles made at the request of the Customer, subject to the allowances set forth in [the Rate Tariff]. "

c. Article V of the Rate Tariff allows PNM to recover "payment of the Company's depreciated investment for any lamp and/or pole associated with the removal of any Company owned lighting facilities."

d. The Parties agree that Subsections (I)(a) and (III)(A)(I)(a) of the Rate Tariff allow PNM to charge Santa Fe for all costs of the LED Conversion Project which exceed the allowances set forth in the Rate Tariff.

e. The Parties further agree that PNM shall charge Santa Fe for the costs of the LED Conversion Project which exceed the allowances set forth in the Rate Tariff and the costs associated with the Company's depreciated investment in accordance with the terms and conditions of the Rate Tariff.

f. Santa Fe agrees to pay PNM for all costs associated with the LED

Conversion Project which exceed the allowances set forth in the Rate Tariff. Those costs include but are not limited to the actual costs incurred by PNM, the costs of additional material or equipment requested by the City, such as light shields, third party actuals, any applicable taxes, the cost of depreciated value in accordance with the language of the Rate Tariff, and the costs of PNM's loads. Santa Fe has approved and set aside Five Hundred and Twenty Five Thousand and 00/100 Dollars (\$525,000.00) for the completion of the partial LED Conversion Project, which will include conversion by PNM of some of the Company's streetlights as specified by Santa Fe. The exact number of lights converted under the partial LED Conversion Project will depend on the costs of the conversion and the City's available funding.

g. All billing invoices submitted by PNM against Santa Fe's Purchase Order shall be paid by Santa Fe within forty-five (45) days after the date of receipt of the applicable invoice, unless Santa Fe reasonably and in good faith disputes any invoiced amounts billed against the Purchase Order in accordance with the terms set forth in Section 5 (the "Disputed Amounts"). For Disputed Amounts, any amounts not paid after the 75th day following the date of receipt of the applicable invoice will bear interest at the annual rate of 8% or the highest rate allowed by law, whichever is lower, from such date to the date of full payment.

5. **Payment Disputes.** If Santa Fe disputes any invoiced amount for PNM's performance of the services contemplated herein, Santa Fe must give notice to PNM by the date that such invoiced amount is due and payable in accordance with Section 4(h), setting forth in reasonable detail the basis for the dispute. Upon Santa Fe timely giving notice of any Disputed Amount, the Parties shall refrain from pursuing any other rights or remedies at law or in equity with respect to such Disputed Amount until all commercially reasonable efforts to resolve such Disputed Amounts in accordance with Section 27 are pursued.

6. **Taxes.** If gross receipts taxes are payable with respect to the duties and obligations performed by PNM hereunder, Santa Fe will be responsible for reimbursing the Company for those gross receipts taxes.

7. **Santa Fe's Representations and Warranties.** Santa Fe represents and warrants to PNM that the following statements are true and correct as of the Effective Date of this Agreement:

a. There is no pending or threatened, suit, action, litigation, or proceeding against or affecting Santa Fe that affects the validity or enforceability of this Agreement.

b. Santa Fe is not in violation of any law promulgated or judgment entered into by any governmental authority that individually or in the aggregate would affect its performance of any of its obligations under this Agreement.

c. The execution and delivery of this Agreement, the consummation of the

transactions contemplated herein, and Santa Fe's compliance with the terms and provisions hereof will not conflict with or result in a breach of, or require any consent under, Santa Fe's charter or other organizational documents, any law or regulation, or any order, injunction, or decree.

d. To the best of Santa Fe's knowledge, the information provided by Santa Fe relating to this Agreement and the LED Conversion Project is true, correct, and complete in every material respect and contains no untrue statement of material fact and does not omit a material fact that would otherwise make its statements contained in this Agreement misleading.

8. Term; Termination; Effect of Termination.

a. **Term.** Provided that this Agreement is not terminated earlier in accordance with the terms set forth in Section 8 hereof, the Term of this Agreement will be for twelve (12) months beginning on the Effective Date or until the completion of the LED Conversion Project, whichever occurs earlier (the "Term"). The 12-month Term does not modify or otherwise extend the City's obligation to timely pay PNM within 45 days after the date of receipt of PNM's billing invoices, as set forth in Section 4 of this Agreement.

b. Termination.

i. **Termination for Convenience.** Santa Fe may terminate this Agreement at any time during the Term for convenience by providing no less than 90 days' prior written notice to PNM.

ii. **Termination for Cause by Santa Fe.** Santa Fe may terminate this Agreement immediately upon written notice to PNM upon the occurrence of any of the following circumstances:

A. PNM becoming insolvent or being unable to pay its debts in the ordinary course of its business; PNM filing a voluntary petition under applicable bankruptcy or other insolvency laws; a receiver being appointed for the business affairs of PNM; any bankruptcy, reorganization, debt arrangement or other proceeding under any bankruptcy or other insolvency law being instituted against PNM that is not dismissed within forty-five (45) days thereafter; PNM making an assignment for the benefit of creditors; or PNM liquidating or ceasing to do business as a going concern;

B. A material breach of this Agreement by PNM and such breach not being cured, to Santa Fe's reasonable satisfaction, within thirty (30) days following notice thereof;

C. The failure of PNM to comply with applicable law in all material respects with regard to its obligations under this Agreement, and such failure not being cured within thirty (30) days following notice thereof; or

D. The failure of PNM to maintain the insurance requirements set forth in Section 20.

iii. Termination for Cause by PNM. PNM may terminate this Agreement pursuant to this Section 8(b)(iii) immediately upon written notice to Santa Fe upon the occurrence of any of the following circumstances:

A. Santa Fe becoming insolvent or being unable to pay its debts in the ordinary course; Santa Fe filing a voluntary petition under applicable bankruptcy or other insolvency laws; or any bankruptcy, reorganization, debt arrangement or other proceeding under any bankruptcy or other insolvency law being instituted against Santa Fe that is not dismissed within forty-five (45) days thereafter;

B. A material breach of this Agreement by Santa Fe and such breach not being cured, to PNM's reasonable satisfaction, within thirty (30) days following notice thereof; or

C. The failure of Santa Fe to comply with applicable law in all material respects with respect to its respective obligations under this Agreement, and such failure not being cured within thirty (30) days following notice thereof.

c. Effect of Termination or Expiration. Upon the termination or expiration of this Agreement, (i) PNM shall discontinue the performance of all of its duties and obligations under this Agreement and shall prepare and deliver a final invoice for all amounts accrued for tasks performed that have not yet been invoiced to Santa Fe, (ii) and Santa Fe shall promptly pay PNM all unpaid amounts owed and not disputed under this Agreement within thirty (30) days after the later of the effective date of termination or the date of the final invoice, (iii) each party shall either return or destroy (at the other party's election) the other party's Confidential Information (as such term is defined below), (iv) if either party is in default under this Agreement, the non-defaulting party may exercise any other remedies available at law or in equity, all of which will be cumulative, and (v) Sections 3, 4, 9, 10, and 14 will survive.

9. Confidentiality.

a. Definition. "Confidential Information" means information or materials provided by one party ("Discloser") to another party ("Recipient") which are in tangible form and labeled "confidential" or the like, or, information which a reasonable person

knew or should have known to be confidential.

b. Protection. Recipient may use Confidential Information of Discloser solely (A) to exercise its rights and perform its obligations under this Agreement; or (B) in connection with the parties' ongoing business relationship. Recipient will not use or disclose any Confidential Information of Discloser for any purpose not expressly permitted by this Agreement, and will disclose the Confidential Information of Discloser only to the employees or contractors of Recipient who have a need to know such Confidential Information for purposes of this Agreement and who are under a duty of confidentiality no less restrictive than Recipient's duty hereunder. Recipient will protect Confidential Information from unauthorized use, access, or disclosure in the same manner as Recipient protects its own confidential or proprietary Information of a similar nature but with no less than reasonable care.

c. Exceptions. Recipient's obligations under Section 10 with respect to any Confidential Information will terminate if Recipient can show by written records that such information: (A) was already known to Recipient at the time of disclosure by Discloser; (B) was disclosed to Recipient by a third party who had the right to make such disclosure without any confidentiality restrictions; (C) is, or through no fault of Recipient has become, generally available to the public; or (D) was independently developed by Recipient without access to, or use of, Discloser's Confidential Information. In addition, Recipient will be allowed to disclose Confidential Information to the extent that such disclosure is required by law or by the order of a court or similar judicial or administrative body, provided that Recipient notifies Discloser of such required disclosure promptly and in writing and cooperates with Discloser, at Discloser's request and expense, in any lawful action to contest or limit the scope of such required disclosure.

10. Hazardous Materials. PNM shall have no responsibility for detection, abatement, remediation, removal or disposal of any substance, material, waste, gas or particulate matter, hazardous substance, pollutant or contamination that is regulated, listed, or identified under any law or that becomes regulated, listed, or identified under any law (collectively, "Hazardous Materials"), except for any Hazardous Materials furnished or used by PNM in connection with the performance of the Company's duties and obligations hereunder.

11. Regulatory Reporting and Cooperation. The parties acknowledge that PNM is regulated by the New Mexico Public Regulation Commission and may be regulated by other governmental agencies including the Federal Energy Regulatory Commission, and that PNM may have certain reporting requirements related to the Company's duties and obligations hereunder. Santa Fe shall maintain detailed and accurate records of the costs and activities related to the performance of its obligations under this Agreement and shall provide such records, together with such other information or documents related to the LED Conversion Project as may be reasonably requested by PNM promptly upon request by PNM to the extent required in a regulatory proceeding. Santa Fe shall take such further actions and execute such further documents or instruments as may be reasonably requested by PNM that are reasonably related to PNM's regulatory compliance obligations with respect to the Company's duties and obligations hereunder.

12. Subcontractors. PNM may use subcontractors in the performance of the Company's obligations under this Agreement.

13. Inspection of Public Records. PNM acknowledges that, if a request for inspection of records under the New Mexico Inspection of Public Records Act (Sections 14-2-1 et seq., NMSA 1978) ("Act") is received for materials relating to this Agreement, and provided that such materials are not exempt under the Act ("Exempted Materials"), Santa Fe is required to disclose those records. Santa Fe shall make a good faith effort to determine what materials are Exempted Materials and to not disclose Exempted Materials. Santa Fe shall, unless prohibited under the Act, provide PNM with immediate notice before any disclosure to allow PNM an opportunity, within the Act's fifteen-day deadline, to initiate legal action to prevent the release of trade secret, proprietary data, or confidential data, or any other materials that to a reasonable person could be considered Exempted Materials, should PNM wish to do so. Notwithstanding anything to the contrary herein, with the exception of the Exempted Materials, Santa Fe shall not be responsible to PNM for any lawful disclosure of records required by the Act or an order of a court or other tribunal with jurisdiction over Santa Fe.

14. Joint Preparation. This Agreement shall be deemed to be jointly prepared. No provision in this Agreement shall be interpreted for or against any party because that party or its counsel drafted such provisions.

15. Time of Performance. This Agreement shall commence upon PNM beginning the work contemplated herein. PNM will endeavor to complete the LED Conversion Project within twelve (12) months of the signing of this Agreement, although the exact date of completion may fluctuate. If PNM requires more time to complete the work described herein, the parties will seek to amend this Agreement pursuant to section 21 herein. PNM shall notify the City as soon as possible and no later than sixty (60) days prior to expiration of this Agreement if it believes the work is not likely to be completed during the original twelve (12) month term of this Agreement.

16. Authorized Representatives. Each party shall designate and shall have designated at all times one representative authorized to act and administer this Agreement of behalf of the designating party (each, an "Authorized Representative") and shall provide to the other party and update, if necessary, the name, address, telephone number, e-mail address, facsimile, and any other pertinent contact information (collectively, "Contact information") for its Authorized Representative. A party may replace its Authorized Representative by written notice to the other party. If a party desires to designate any additional authorized representatives, it shall specify the nature of the communications for which each such representative is authorized to act on the designating party's behalf. The contact information for each of the Parties' current authorized representatives is set forth on Schedule "B" to this Agreement. Neither party's Authorized Representative shall have any authority to amend, modify, or waive this Agreement or any provision hereof, but the Authorized Representatives may provide information where expressly specified herein or to the extent reasonably necessary for the parties' respective performance of their obligations hereunder.

17. Appropriations. The City of Santa Fe has appropriated \$525,000 for the completion of the LED Conversion Project. The terms of this Agreement, and any orders placed under it, are contingent upon sufficient appropriations and authorization being made by the Governing Body for the performance of this Agreement. If sufficient appropriations and authorization are not made by the Governing Body, this Agreement, and any orders placed under it, shall terminate upon written notice being given by the City to the Contractor. The City's decision as to whether sufficient appropriations are available shall be accepted by the Contractor and shall be final. If the City t unilaterally reduces funding, PNM shall have the option to terminate this Agreement within thirty (30) days of the notice of reduction in funding. The City shall remain responsible for prompt and full payment of all amounts due and owing prior to termination of this Agreement.

18. Independent Contractor. Neither PNM nor its employees are considered to be employees of Santa Fe for any purpose whatsoever. PNM is considered to be an independent contractor at all times in the performance of the services contemplated under this Agreement. PNM further agrees that neither it nor its employees are entitled to any benefits from Santa Fe under the provisions of the Workers' Compensation Act of the State of New Mexico, or to any of the benefits granted to employees of Santa Fe under the provisions of any merit system ordinance that may be now or hereinafter enacted or amended.

19. Insurance. Each party shall purchase and maintain insurance in accordance with such party's own internal policies and procedures. Each party shall provide proof of such insurance and renewals thereof upon request by the other party.

20. Compliance with Laws. Both parties shall comply with all applicable laws, ordinances, and codes of the Federal, State, and local governments in connection with the performance of their respective duties and obligations under this Agreement.

21. Amendments. Any amendments to this Agreement shall be in writing and mutually agreed upon by the Parties.

22. Construction and Severability. If any part of this Agreement is held to be invalid or unenforceable, such holding will not affect the validity or enforceability of any other part of this Agreement so long as the remainder of the Agreement is reasonably capable of completion.

23. Entire Agreement; Order of Precedence. This Agreement, including the Rate Tariff referenced above which has been incorporated herein by reference, contains the entire Agreement of the Parties relevant to the LED to Conversion Project and supersedes any and all other agreements or understandings, oral or written, whether previous to the execution hereof or contemporaneous herewith. In the event of any conflict between the terms of this Agreement and the Rate Tariff, the Rate Tariff will control.

24. Applicable Law. This Agreement shall be governed by and construed and enforced in accordance with the laws of the State of New Mexico.

25. Venue. The parties agree that the courts of the State of New Mexico sitting in Santa Fe County, New Mexico, will have exclusive jurisdiction to hear any action or judicial proceedings with respect to this Agreement. The parties each agree not to raise any objection to venue or any defense of inconvenient forum to any action or judicial proceedings brought by the other party or arising in connection with this Agreement brought in the aforementioned courts.

26. Dispute Resolution. If any question, dispute, difference, or claim arises out of or in connection with this Agreement, including any question regarding its existence, validity, performance, or termination (a "Dispute"), then either party may provide written notice to the other together with a sufficiently detailed explanation of the notifying party's position with respect to the Dispute, and the Authorized Representatives of the parties shall meet promptly and shall diligently attempt in good faith to resolve the Dispute for a period of not more than five days (the "Initial Meeting"). If the Authorized Representatives are unable to resolve such Dispute during the Initial Meeting, then each party shall designate one agent authorized to bind such party or with settlement authority, and such designated agents shall meet within ten days following the end of the Initial Meeting, or at a time mutually agreed upon by the Authorized Representatives, to attempt in good faith to resolve the Dispute and produce written terms of settlement for the Dispute (a "Settlement Agreement"). A Settlement Agreement executed by each designated agent shall serve as conclusive evidence of the resolution of such Dispute. If the designated agents do not produce and execute the Settlement Agreement within twenty days after the date of the first meeting of the designated agents or within a longer period agreed to by each designated agent, then either party may, upon written notice to the other party, pursue all of its rights and remedies provided at law or in equity or otherwise in this Agreement.

27. Waiver of Jury Trial. Each party hereby waives, to the fullest extent permitted by applicable law, any right it may have to a trial by jury in respect of any proceeding brought to enforce or interpret this Agreement. Each party acknowledges that it and the other party have been induced to enter this Agreement by, among other things, the mutual waivers and certifications in this Section.

28. Force Majeure. PNM shall not be considered to be in default in respect to any obligation hereunder, if delays in or failure of performance shall be due to Force Majeure. The term "Force Majeure" shall mean any cause beyond the control of the Company and not due to its fault or negligence, including, but not limited to, acts of God, flood, earthquake, storm, fire, lightning, epidemic, pandemic, war, terrorist activity, riot, civil disturbance, sabotage, inability to obtain permits, licenses, and authorizations from any local, state, tribal, or federal agency for any of the materials, supplies, equipment, or services required to be provided hereunder, fuel shortages, strikes or other labor disputes, delay associated with lack of skilled labor or resources in Santa Fe County, or restraint by court or public authority, any of which by exercise of due foresight PNM could not reasonably have been expected to avoid, and which by the exercise of due diligence it is unable to overcome. PNM shall not, however, be relieved of liability for failure of performance if such failure is due to removable or

remediable causes which it fails to remove or remedy with reasonable dispatch. Nothing contained herein, however, shall be construed to require PNM to prevent or settle a strike or other labor disputes against its will. The Party whose performance hereunder is so affected shall immediately notify the other Party of all pertinent facts and take all reasonable steps to promptly and diligently prevent such causes if feasible to do so, or to minimize or eliminate the effect thereof without delay. Santa Fe shall make no claim against PNM and hereby waives, releases and discharges any and all claims against the Company for additional compensation or Damages by reason of any delay or additional services due to a Force Majeure.

29. No Waiver. Nothing in this Agreement shall be construed as a waiver of either Party's legal rights, unless expressly addressed herein. Each party expressly reserves any legal rights and remedies to the extent that this Agreement is silent on a particular point.

30. Notices. Unless this Agreement specifically requires otherwise, any notice, demand, or request provided for herein or served, given, or made as contemplated hereby must be in writing and either (i) delivered in person, (ii) sent by email, (iii) sent by certified United States mail, postage prepaid, or (iv) sent by a nationally recognized overnight courier service that provides a receipt of delivery, in each case, to the other party's Authorized Representative. Notice given by personal delivery, mail, or overnight courier pursuant to this Section is effective upon receipt (or refusal of delivery) by the other party's Authorized Representative. Notice given by email pursuant to this Section is effective if sent to the email address of the other party's Authorized Representative that is set forth on **Schedule "B,"** regardless of acknowledgement of receipt.


31. Relationship of the Parties. Nothing contained in this Agreement will be construed in any manner as creating an agency, partnership, joint venture or any other type of relationship between PNM and Santa Fe. Neither party will have, nor will such party hold itself out as having, any authority whatsoever, whether express or implied, to assume, create, or incur any obligation or liability whatsoever, contractual or otherwise, on behalf of or in the name of the other party or to bind the other party in any other manner whatsoever.

32. Construction. The headings of the Sections of this Agreement are for convenience and are not to be used in interpreting this Agreement. As used in this Agreement, the word "including" means "including, without limitation."

33. New Mexico Tort Claims Act. Any liability in tort incurred by the City of Santa Fe in connection with this Agreement is subject to the immunities and limitations of the New Mexico Tort Claims Act, Section 41-4-1, et. seq. NMSA 1978, as amended. The City and its "public employees" as defined in the New Mexico Tort Claims Act, do not waive sovereign immunity, do not waive any defense and do not waive any limitation of liability pursuant to law. No provision in this Agreement modifies or waives any provision of the New Mexico Tort Claims Act.


IN WITNESS WHEREOF, Santa Fe and PNM have executed this Agreement as of the date first written above.

CITY OF SANTA FE

By: 
Alan Webber (Feb 29, 2024 15:17 MST)

Alan Webber
Mayor, City of Santa Fe, New Mexico

Attest:


Geralyn Cardenas (Feb 29, 2024 15:43 MST)

Geralyn Cardenas, Interim City Clerk
GB MTG 02/28/24 XIV

City Attorney's Office:


Marcos Martinez (Jan 12, 2024 13:36 MST)


Senior Assistant City Attorney

Approved for Finances:


Emily K. Oster (Feb 15, 2024 17:35 MST)

Emily Oster, Finance Director

PUBLIC SERVICE COMPANY OF NEW MEXICO

Decolligned by:  2/14/2024
By: BOE1D4HEB1C4E0

Mike Mertz
PNM Vice President, New Mexico Operations

SCHEDULE "A"

AGREEMENT FOR THE CONVERSION OF STREETLIGHTS
OWNED BY THE PUBLIC SERVICE COMPANY OF NEWMEXICO

PNM's Existing Streetlights by Wattage	Units of Streetlights by Wattage	Installation Allowances in 17th Revised Rate No.20	LED Operational Substitutes Per Appendix A to 17th Revised Rate No. 20
100WHPS	983	\$160.00	<p style="text-align: center;"><u>Operational Substitute No. 1</u></p> ATBS PIO MVOLT R2 NL P7 XL, 40W, 4000K ERL1 0 05B3 40 AGRAY, 39W, 4000K VERD-C016-D-U-T2-4N7-10MSP-AP,39W, 4000K ATBS PIO MVOLT R2 3K NL P7 XL, 40W, 3000K ERL1 0 05B3 30 A GRAY, 39W, 3000K VERD-C016-D-U-T2-7030-4N7-10MSP-AP, 39W, 3000K ATBS P10 MVOLT R2 27K XL NL P7 VR RFD321303, 40W, 2700K ERL1 0 05B5 27 A GRAY, 37W, 2700K VERD-C016-D-U-T2-8027-4N7-10MSP-AP, 39W, 2700K
250WHPS	161	\$480.00	<p style="text-align: center;"><u>Operational Substitute No. 2</u></p> ATBM P30 MVOLT R3 NL XL P7, 118W, 4000K ERL2 0 16C3 40 A GRAY, 120W, 4000K VERD-C02H-D-U-T3-4N7-10MSP-AP, 120W, 4000K ATBM P30 MVOLT R3 3K NL XL P7, 118W, 3000K ERL2 0 16C3 30 A GRAY, 120W, 3000K VERD-C02H-D-U-T3-7030-4N7-10MSP-AP, 120W, 3000K ATBM P30 480 R3 NL P7 XL, 118W, 4000K
400W HPS	62	\$1,040.00	<p style="text-align: center;"><u>Operational Substitute No. 3</u></p> ATBL F MVOLT R3 NL P7, 259W, 4000K ERL2 0 28C3 40 AGRAY, 251W, 4000K VERDM-A04-D-U-T3-4N7-10MSP-AP, 247W, 4000K ATBL FM VOLT R3 3K NL P7, 259W, 3000K ERL2 0 28C3 30 AGRAY, 251W, 3000K VERDM-A04-D-U-T3-7030-4N7-10MSP-AP, 247W, 3000K ATBL F 480 R3 NL P7 XL, 259W, 4000K

175W MV	838	\$160.00	<p style="text-align: center;"><u>Operational Substitute No. 1</u></p> <p style="text-align: center;">ATBS PIO MVOLT R2 NL P7 XL, 40W, 4000K ERL1 0 05B3 40 AGRA Y, 39W, 4000K VERD-CO16-D-U-T2-4N7-10MSP-AP,39W, 4000K ATBS PIO MVOLT R2 3K NL P7 XL, 40W, 3000K ERL1 0 05B3 30 A GRAY, 39W, 3000K VERD-C016-D-U-T2-7030-4N7-10MSP-AP, 39W, 3000K ATBS P10 MVOLT R2 27K XL NL P7 VR RFD321303, 40W, 2700K ERL1 0 05B5 27 A GRAY, 37W, 2700K VERD-C016-D-U-T2-8027-4N7-10MSP-AP, 39W, 2700K</p>
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400WMV	13	\$480.00	<p style="text-align: center;"><u>Operational Substitute No. 2</u></p> <p>ATBM P30 MVOLT R3 NL XL P7, 118W, 4000K ERL2 0 16C3 40 A GRAY, 120W, 4000K VERD-C02H-D-U-T3-4N7-10MSP-AP, 120W, 4000K ATBM P30 MVOLT R3 3K NL XL P7, 118W, 3000K ERL2 0 16C3 30 A GRAY, 120W, 3000K VERD-C02H-D-U-T3-7030-4N7-10MSP-AP, 120W, 3000K ATBM P30 480 R3 NL P7 XL, 118W, 4000K</p>
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SCHEDULE "B"

Authorized Representatives

The Contact Information for the Authorized Representatives is initially as follows:

Public Service Company of New Mexico

Sharon Martinez
Large Construction Project Manager,
NMOPS Projects and Program Management
2401 Aztec NE
MSZ200
Albuquerque, New Mexico 87107
sharon.martinez@pnm.com
505-241-4515 office
505-238-5409 cell

Manuel Quintana
Senior Strategic Account Manager
PNM Account Management
414 Silver Ave. SW
Albuquerque, NM 87102
Manuel.quintana@pnm.com
505-241-4716 office
505-249-3105

City of Santa Fe, New Mexico

Regina Wheeler,
Public Works Director
PO Box 909
500 Market St. Suite 200
Santa Fe, New Mexico 87504-0909
(505) 955-6622

Schedule C
City of Santa Fe Specified Operational Substitutes

City of Santa Fe Specified Operational Substitutes				
PNM's Existing Streetlights by Wattage	Units of PNM's Streetlights by Wattage	Number of Lights Subject to Conversion and Light Type	Installation Allowances in 17th Revised Rate No.20	City Specified LED Operational Substitutes Per Appendix A to 17th Revised Rate No. 20
100WHPS	983		\$160.00	ATBS P10 MVOLT R2 27K XL NL P7 VR RFD321303, 40W, 2700K
250WHPS	161		\$480.00	ATBM P30 MVOLT R3 3K NL XL P7, 118W, 3000K
400WHPS	62		\$1,040.00	ATBL FM VOLT R3 3K NL P7, 259W, 3000K
175WMV	838		\$160.00	ATBS P10 MVOLT R2 27K XL NL P7 VR RFD321303, 40W, 2700K
400WMV	13		\$480.00	ATBM P30 MVOLT R3 3K NL XL P7, 118W, 3000K



City of Santa Fe New Development Roadway Lighting Guidelines

SUMMARY

- Roadway luminaires must meet the following requirements:

Roadway Type	Correlated Color Temperature (Kelvin)	Input Wattage Range (W)	Nominal Lumen Output (lumen) +/- 10%	Minimum Color Rendering Index	IES Distribution	Visual Comfort Refractor	IES TM-16 Backlight, Uplight, and Glare Rating		
							B	U	G
Residential	2700K	28-45	4,000	70	Type 2	Required	1	0	1
Local/Collector	3000K	90-100	8,900	70	Type 2 or Type 3	Required	2	0	2
Major	3000K	190-200	20,000	70	Type 2 or Type 3	Not required	3	0	3

Luminaires must be fitted with a Ubicquia Ubicell control. Full specifications are in Appendix B.

- Plans indicating the location, type, and height of both building and ground mounted luminaires; and
 - Specification sheets for proposed luminaires, arms, poles, foundations, supports, shielding devices, and smart controls; and
 - Photometric data: provide photometric showing footcandles on the ground or luminaire .ies files with .dwg of proposed layouts. (Examples included in Appendix A)

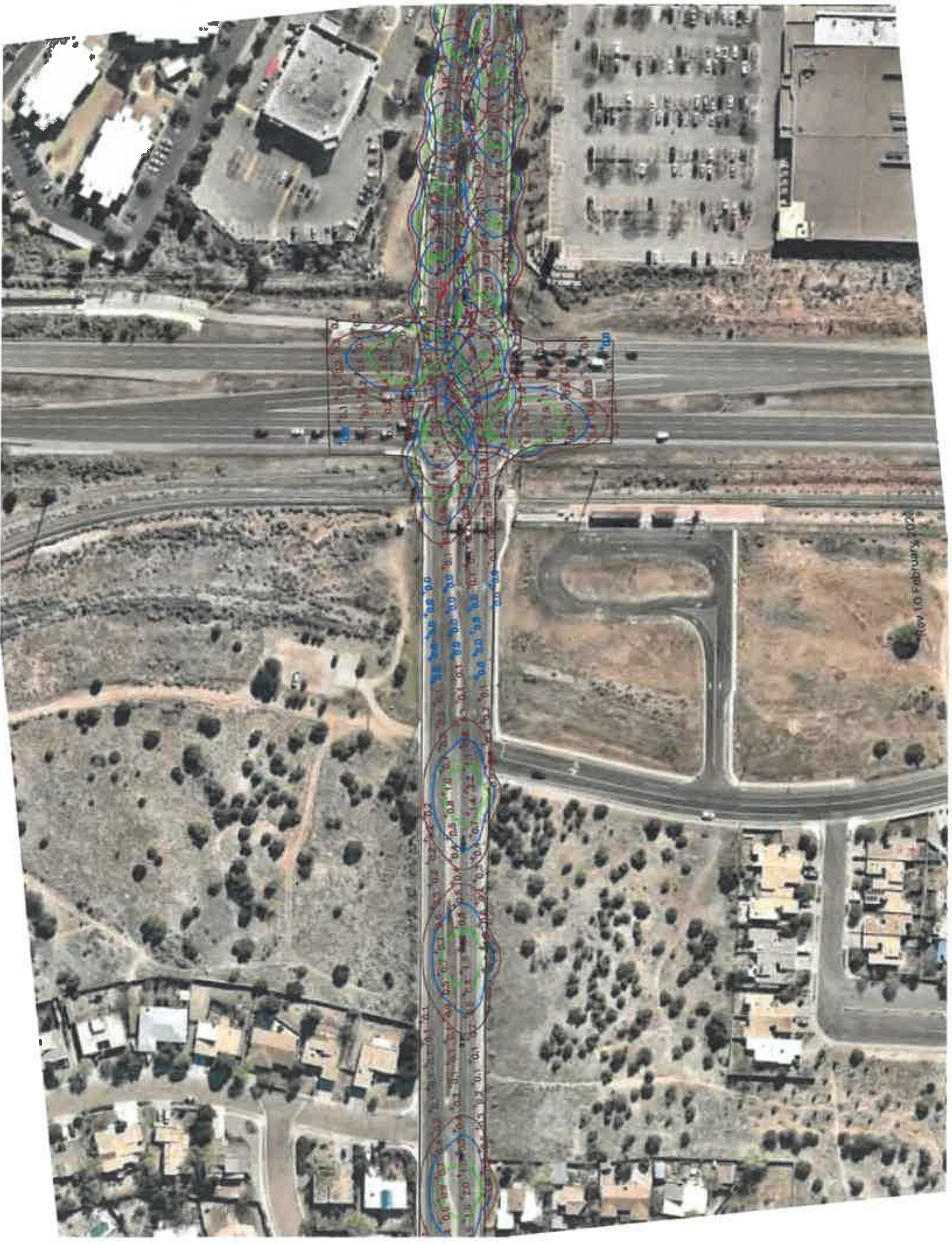
Submit package to City Traffic Engineer and the City's street lighting maintenance provider, Dalkia Energy Solutions. A response will be provided within five business days.

Jeanne Wolfenbarger <jawolfenbarger@santafenm.gov>
 Matt O'Brien <matt.obrien@dalkiasolutions.com>



Appendix A:

EXAMPLE ROADWAY PHOTOMETRICS



Nov 10 February 2024



Current View



Appendix B:

COMMUNITY-GUIDED SMART STREET LIGHTING DESIGN SPECIFICATIONS



City of Santa Fe
Department of Public Works
Community-Guided Smart Street Lighting Design Specifications

The City of Santa Fe seeks to convert its existing street lighting assets to smart LED technology in order to "reduce light pollution, reduce or prevent glare, reduce or prevent light trespass, conserve energy, promote a sense of safety and security, and ensure aesthetically appropriate outdoor lighting in keeping with the character of Santa Fe." - (City of Santa Fe Ord. No. 2011-37 § 10)

Following the Community-Guided Design phase outlined in its Global Management Contract with Dalkia, the Department of Public Works is recommending to the Governing Body the smart lighting design summarized in the below table and described with detailed specifications in the following pages.

Roadway Type	Correlated Color Temperature (Kelvin)	Input Wattage Range (W)	Nominal Lumen Output (lumens) ±10%	Minimum Color Rendering Index	IES Distribution	Visual Comfort Refractor	IES TM-15 Backlight, Uplight, and Glare Rating		
							B	U	G
Residential	2700K	28-45	4,000	70	Type 2	Required	1	0	1
Local/Collector	3000K	90-100	8,900	70	Type 2 or Type 3	Required	2	0	2
Major	3000K	190-200	20,000	70	Type 2 or Type 3	Not required	3	0	3

Roadway Type	Number of Fixtures	Percentage of Total
Residential	3,137	58%
Local/Collector	1,578	29%
Major	697	13%

In order to develop this Community-Guided Smart Lighting Design Plan, Dalkia worked with multiple stakeholders, including PNM, and compiled various sets of data; evaluated various products and performed a comprehensive set of photometric analyses; gathered community feedback from multiple channels; and combined all analyses into this recommendation. The final plan is designed to be actionable and to provide results in line with the Sustainable Santa Fe 25-Year Plan and the City of Santa Fe's expectations. The City of Santa Fe and Dalkia will work together to develop a dimming strategy to further increase energy savings and dark-sky protection, aligned with dark-sky best practices.



City of Santa Fe
Department of Public Works
Community-Guided Smart Street Lighting Design Specifications

Part A: STREET LIGHTING LIGHT EMITTING DIODE (LED) LUMINAIRE SPECIFICATIONS

1.0 REFERENCES

The publications listed below form a part of this specification to the extent referenced. Publications are referenced within the text by their basic designation only. Versions listed shall be superseded by updated versions as they become available.

1.1 American National Standards Institute (ANSI)

- A. C136.2 (Most current), American National Standard for Roadway and Area Lighting Equipment—Luminaire Voltage Classification
- B. C136.10-2010 (Most current), American National Standard for Roadway and Area Lighting Equipment Locking-Type Photocontrol Devices and Mating Receptacle Physical and Electrical Interchangeability and Testing
- C. C136.15-2011 (Most current), American National Standard for Roadway and Area Lighting Equipment Luminaire Field Identification
- D. C136.25-2009 (Most current), American National Standard for Roadway and Area Lighting Equipment Ingress Protection (Resistance to Dust, Solid Objects and Moisture) for Luminaire Enclosures
- E. C136.31-2010 (Most current), American National Standard for Roadway Lighting Equipment – Luminaire Vibration.
- F. C136.41

1.2 American Society for Testing and Materials International (ASTM)

- A. B117-09 (Most current), Standard Practice for Operating Salt Spray (Fog) Apparatus
- B. D1654-08 (Most current), Standard Test Method for Evaluation of Painted or Coated Specimens Subjected to Corrosive Environments
- C. D523-08 (Most current), Standard Test Method for Specular Gloss
- D. G154-06 (Most current), Standard Practice for Operating Fluorescent Light Apparatus for UV Exposure of Nonmetallic Materials

1.3 Council of the European Union (EC)

- A. RoHS Directive 2002/95/EC, on the restriction of the use of certain hazardous substances in electrical and electronic equipment

1.4 Illuminating Engineering Society of North America (IESNA or IES)

- A. DG-4-03 (Most current), Design Guide for Roadway Lighting Maintenance
- B. HB-10-11 (Most current), IES Lighting Handbook, 10th Edition
- C. LM-50-99 (Most current), IESNA Guide for Photometric Measurement of Roadway Lighting Installations
- D. LM-61-06 (Most current), IESNA Approved Guide for Identifying Operating Factors Influencing Measured Vs. Predicted Performance for Installed Outdoor High Intensity Discharge (HID) Luminaires
- E. LM-79-08 (Most current), IESNA Approved Method for the Electrical and Photometric Measurements of Solid-State Lighting Products
- F. LM-80-08 (Most current), IESNA Approved Method for Measuring Lumen Maintenance of LED Light Sources
- G. RP-8-18 (Most current), ANSI / IESNA American National Standard Practice for Roadway Lighting



City of Santa Fe

Department of Public Works

Community-Guided Smart Street Lighting Design Specifications

- H. RP-16-10 (Most current), ANSI/IES Nomenclature and Definitions for Illuminating Engineering
- I. TM-3-95 (Most current), A Discussion of Appendix E - "Classification of Luminaire Lighting Distribution," from ANSI/IESNA RP-8-83
- J. TM-15-11 (Most current), Luminaire Classification System for Outdoor Luminaires
- K. TM-21-11 (Most current), Projecting Long Term Lumen Maintenance of LED Light Sources
- 1.5 National Electrical Manufacturers Association (NEMA)
 - A. ANSI/NEMA/ANSI C78.377-2008 (or latest), American National Standard for the Chromaticity of Solid State Lighting Products
- 1.6 National Fire Protection Association (NFPA)
 - A. 70 – National Electrical Code (NEC)
- 1.7 Underwriters Laboratories (UL)
 - A. 1449, Surge Protective Devices
 - B. 1598, Luminaires.
 - C. 8750, Light Emitting Diode (LED) Equipment for Use in Lighting Products LED Roadway Specification
- 1.8 CSA
 - 1. 1598, Luminaires

2.0 GENERAL CONSTRUCTION

- 2.1 Shall be compliant with CSA C22.2 No. 250.0-08 – UL 1598 Harmonized Std.
- 2.2 Luminaire housing to be fabricated from die cast aluminum low copper content alloy.
 - A. Luminaire housing to act as passive heat sink for LED Array.
 - B. Housing to be designed in such a manner that debris build-up within "heat-fin" structure will not significantly impact lamp lumen depreciation (LLD).
 - C. Luminaire finish and casting to be tested to ASTM B117 salt fog, and must maintain a scribe creepage rating of 8 per ASTM D1654 after 5000 hours.
 - D. Access to electrical compartment shall be tool-less by means of a thumb screw.
 - E. Tool-less access should accommodate user wearing electrical gloves.
- 2.3 LED light engine
 - A. Shall be IP68 rated (provide 0% uplight and restrict backlight to within sidewalk depth).
 - B. Lens shall be created from borosilicate glass.
- 2.4 Luminaire Attachment
 - A. Luminaire shall be able to attach to 1 1/4" and/or 2" IPS schedule 40 mast arms (1 5/8" to 2 3/8" OD).
 - B. Luminaire shall be designed to be able to tilt +/- 5 degrees from horizontal.
 - C. Luminaire shall be designed to withstand 3G vibration testing prescribed in ANSI C136.31.
 - D. Luminaire shall include internal integral leveling bubble to assist in the installation.
- 2.5 Luminaire Markings
 - A. Shall have external wattage label affixed on underside of luminaire to be seen from ground per ANSI C136.15.
 - B. Luminaire shall have internal label indicating manufacturer's name, product name, input voltage and date of manufacture.
- 2.6 Wildlife shield shall be a cast in feature (not a separate component).



City of Santa Fe

Department of Public Works

Community-Guided Smart Street Lighting Design Specifications

3.0 ELECTRICAL

- 3.1 All electrical components shall be terminated through the use of quick disconnect couplings.**
- A. There shall not be any wire nuts supplied in the luminaire**
 - B. All luminaires shall be equipped with a 3 station tunnel style terminal block for terminating supply wire.**
 - 1. Terminal block shall accommodate up to 6 AWG conductors.**
 - 2. For ease of installation, the terminal block shall be positioned in such a manner that supply wires do not need to be bent or re-routed around components to make electrical termination.**
 - C. Luminaire shall provide means to protect LED driver and LED lighting array from electrical transients caused by electrical storms or capacitor switching by means of surge protection device.**
 - 1. Surge Protection Device (SPD) shall be UL1449 recognized.**
 - 2. SPD shall be 3 wire and provide both common and differential mode protection.**
 - 3. SPD must have an inductive filter circuit that reduces the amount of energy passed thru to electronics during a surge event.**
 - 4. Surge protection device shall be rated to protect the luminaire up to 10kV/5kA combination wave surges in accordance with ANSI C136.2 (Most Current).**
 - 5. Surge protection shall be thermally fused.**
 - 6. Failure mode of surge protection is to leave luminaire off.**
 - D. LED Driver shall meet the following minimum requirements**
 - 1. LED Driver shall have a minimum power factor of 90% at full load.**
 - 2. LED Driver THD shall be less than 20% at full load.**
 - 3. LED Driver shall comply with the requirements of UL, CSA, FCC47 subpart 15**
 - 4. LED Driver maximum case temperature shall not be exceeded when luminaire is operating in a 40C ambient.**
 - 5. LED Driver shall be RoHS compliant**
 - 6. LED Driver shall have an ingress protection rating IP66.**
 - E. Photocontrol receptacle shall comply with ANSI C136.10 for standard 7 PIN configurations. When using smart controls receptacle shall comply with ANSI C136.41.**

4.0 LIFE

- 4.1 Component rated life shall be a minimum of 20 years (or 100,000 hours) when operating in a continuous 25C ambient.**
- 4.2 The design life of the LED array (based on LM80/TM21) shall be defined as L80 at 98,000 hours operation in an ambient of 25C.**

5.0 WARRANTY

- 5.1 Luminaire shall be warranted to be free from manufacturing defects for a minimum period of 10 years.**

6.0 LED LUMINAIRE PERFORMANCE

- 6.1 Residential Roadway LED Luminaires**
 - A. Correlated Color Temperature (CCT) shall be nominally rated at 2700 Kelvin CCT.**
 - B. Luminaire input wattage shall be between 28 watts and 45 watts.**



City of Santa Fe

Department of Public Works

Community-Guided Smart Street Lighting Design Specifications

- C. Luminaire nominal lumen output shall be between 4000 lumens and 5000 lumens.
- D. Minimum Color Rendering Index (CRI) shall be 70.
- E. Luminaire shall have a distribution pattern consistent with IES RP-8-18 Type II Distribution.
- F. Luminaire shall have a maximum BUG rating per IES TM-15 of B1-U0-G1.
- G. Product shall have a visual comfort glare reduction refractor.

6.2 Local/Collector Roadway LED Luminaires

- A. Correlated Color Temperature (CCT) shall be nominally rated at 3000 Kelvin CCT.
- B. Luminaire input wattage shall be between 90 watts and 120 watts.
- C. Luminaire nominal lumen output shall be between 8000 lumens and 12000 lumens.
- D. Minimum Color Rendering Index (CRI) shall be 70.
- E. Luminaire shall have a distribution pattern consistent with IES RP-8-18 Type II or Type III Distribution.
- F. Luminaire shall have a maximum BUG rating per IES TM-15 of B2-U0-G2.
- G. Product shall have a visual comfort glare reduction refractor.

6.3 Major Roadway LED Luminaires

- A. Correlated Color Temperature (CCT) shall be nominally rated at 3000 Kelvin CCT.
- B. Luminaire input wattage shall be between 190 watts and 260 watts.
- C. Luminaire nominal lumen output shall be between 20000 lumens and 24000 lumens.
- D. Minimum Color Rendering Index (CRI) shall be 70.
- E. Luminaire shall have a distribution pattern consistent with IES RP-8-18 Type II or Type III Distribution.
- F. Luminaire shall have a BUG rating per IES TM-15 of B3-U0-G3.
- G. Product shall be Design Lights Consortium (DLC) qualified.



City of Santa Fe
Department of Public Works
Community-Guided Smart Street Lighting Design Specifications

Part 2: SMART CONTROLS

One of the use-cases for smart controls technology on the city's street lighting infrastructure is dimming capability. Dimming control will allow luminaires to be adjusted as an additional mechanism to increase energy savings and dark-sky protection.

7.0 Smart Node Technology

- 7.1 Node shall have twist-lock controller compatibility with 3, 5 or 7 pin NEMA socket receptacle.
- 7.2 Node shall utilize AES 128/256-bit encryption in its communication security.
- 7.3 Node shall function with a 0-10V, DALI or DALI2 driver and will provide a dimming circuit with a range of 0% to 100%.
- 7.4 Node shall have a single SKU to handle both low voltage and high voltage.
- 7.5 Node shall have a minimum of 10KV/5KA power surge protection and a single power supply range for 90V to 506V line voltage.
- 7.6 Node shall have a minimum IP66 rating to withstand harsh weather conditions with a -30C to +70C (-22F to +158F) operating temperature range.
- 7.7 Node shall utilize LTE CAT-1 cellular communication per module and provide advanced lighting and IoT functions and services to include, but not limited to, Tilt, Scheduling, Dynamic Dimming, Asset Management, GPS, Outage Notification, Traffic Trends, Beaconing, and Utility Grade Power Metering accuracy of ANSI C12.20 Class + or - 0.5.
- 7.8 Node must have a 10-year warranty and include 10 years of Software as a Service and connectivity.



Appendix C:

EXISTING CITY EQUIPMENT SPECIFICATIONS SHEETS



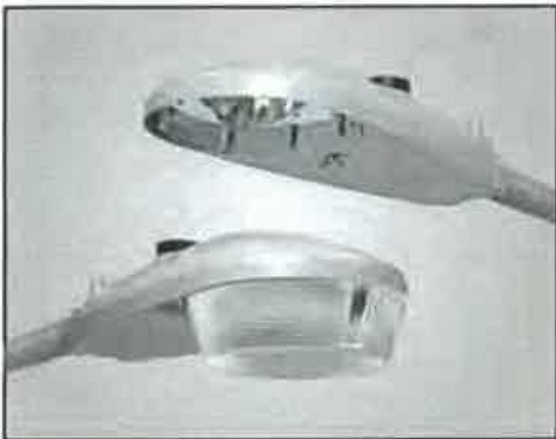
LUMINAIRE SPECIFICATIONS SHEETS



Compliant with LEED® goals & Green Globes® criteria for light pollution reduction

Autobahn Series ATBS Roadway & Security Lighting

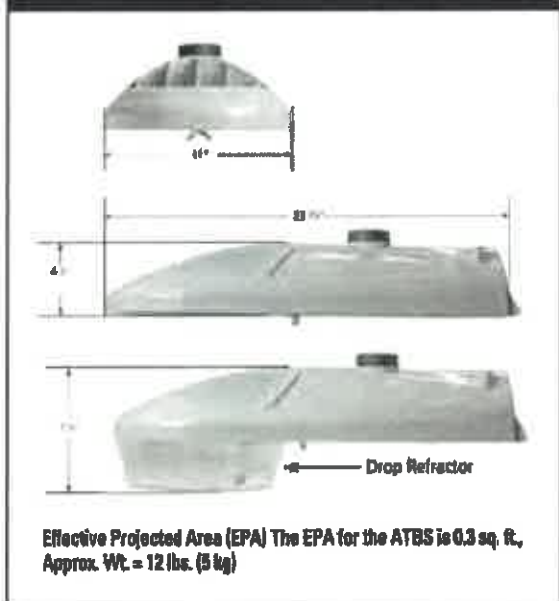
PRODUCT OVERVIEW



Applications:

- Residential streets
- Parking lots
- General security lighting

DIMENSIONS



STANDARDS

DesignLights Consortium® (DLC) qualified product. Not all versions of this product may be DLC qualified. Please check the DLC Qualified Products List at www.designlights.org/DPL to confirm which versions are qualified.

Color temperatures of $\leq 3000\text{K}$ must be specified for International Dark-Sky Association certification.

Rated for -40°C to 40°C ambient

CSA Certified to U.S. and Canadian standards

Complies with ANSI: C136.2, C136.10, C136.14, C136.31, C136.15, C136.37

Note: Actual performance may differ as a result of end-user environment and application. Specifications subject to change without notice.

Features:

OPTICAL

Same Light: Performance is comparable to 100W – 200W HPS and up to 175W Mercury Vapor roadway and security lighting luminaires.

White Light: Correlated color temperature - 4000K, 70 CRI minimum, 3000K, 70 CRI minimum or optional 5000K, 70 CRI minimum.

IP66 rated borosilicate glass optics ensure longevity and minimize dirt depreciation. Unique IP66 rated LED light engines provide 0% uplight and restrict backlight to within sidewalk depth, providing optimal application coverage and optimal pole spacing.

Available distributions are Type II, III, and V roadway distributions. When used with the optional acrylic refractor the unit provides approximately 10% uplight and increased vertical foot-candles

ELECTRICAL

Expected Life: LED light engines are rated $>100,000$ hours at 25°C , L70. Electronic driver has an expected life of 100,000 hours at a 25°C ambient.

Lower Energy: Saves an expected 40-60% over comparable HID luminaires.

Standard surge protection: Is 20kV/10kA "Extreme Level" per ANSI C136.2. An optional MOV pack provides 10kV/5kA "Enhanced Level".

MECHANICAL

Includes standard AEL lineman-friendly features such as tool-less entry, 3 station terminal block and quick disconnects. Bubble level located inside the electrical compartment for easy leveling at installation.

Rugged die-cast aluminum housing and door are polyester powder-coated for durability and corrosion resistance. Rigorous five-stage pre-treating and painting process yields a finish that achieves a scribe creepage rating of 8 (per ASTM D1654) after over 5000 hours exposure to salt fog chamber (operated per ASTM B117).

Most arm mount is adjustable for arms from 1-1/4" to 2" (1-5/8" to 2-3/8" O.D.) diameter. The 2-bolt clamping mechanism provides 3G vibration rating per ANSI C136.31.

The Wildlife shield is cast into the housing (not a separate piece).

CONTROLS

NEMA 3 pin photocontrol receptacle is standard, with the Acuity designed ANSI standard 7 pin receptacles optionally available.

Premium solid state locking-style photocontrol – PCSS (10 year rated life) Extreme long life solid state locking-style photocontrol – PCL1 (20 year rated life)

Optional onboard Adjustable Output module allows the light output and input wattage to be modified to meet site specific requirements, and also can allow a single fixture to be flexibly applied in many different applications.

Autobahn Series ATBS

Roadway & Security Lighting

ORDERING INFORMATION

Series	Performance Packages	Voltage	Optics
ATBS Autobahn LED Roadway & Security	P10 5,500 lumens P20 6,800 lumens P30 8,300 lumens P40 9,400 lumens P50 10,800 lumens P60 ⁴ 11,850 lumens	MVOLT Multi-volt, 120-277V 347 347V 480 480V	R2 Roadway Type II R3 Roadway Type III R5 Roadway Type V D3 Type III, Drop Refractor included D5 Type V, Drop Refractor included

Options

Color Temperature (CCT)

(Blank) 4000K CCT, 70 CRI Min.
3K 3000K CCT, 70 CRI Min.
5K 5000K CCT, 70 CRI Min.

Paint

Blank Gray (Standard)
BK Black
WH White
BZ Bronze

Surge Protection

Blank Standard 20kV/10kA SPD
MP MOV Pack 10kV/5kA

Misc.

HS House Side Shield
NL NEMA Label
XL Not CSA Certified
VR³ Visual Comfort Optic

UMR-XX 8" Horizontal Arm for Round Pole, Painted to match Fixture

UMS-XX 8" Horizontal Arm for Square Pole, Painted to match Fixture

UMR-GALV 8" Horizontal Arm for Round Pole, Painted to match Fixture

UMS-GALV 8" Horizontal Arm for Square Pole, Painted to match Fixture

Controls

(Blank) 3 Pin NEMA Photocontrol Receptacle
NR¹ No Photocontrol Receptacle
DM² 0V-10V Dimmable Driver
P7 7 Pin Photocontrol Receptacle (dimmable driver included)
PCSS¹ DTL DSS Photocontrol
PCL1¹ DTL DLL Photocontrol 120-277V
AO Field Adjustable Output
SH Shorting Cap

Packages

(Blank) Standard Pack
JP Job Pack (54/pallet)

Install Packages

PKBS DTL DSS Photocontrol
PKGL DTL DLL Photocontrol
Packages ship with selected photocontrol, 24", 1 1/4" diameter arm, 5' of prewire and mounting hardware

Accessories

ATBSREF Drop Refractor for field installation
ATBSHSS House Side Shield for field installation
ATBSLTS Light Trespass Shield for field installation
ATBS LOUVER KIT Louver Kit for field installation
ATBSVR-XX Visual Comfort Refractor and painted skirt for field installation

Notes

- Not available with Install Packages.
- Not available with AO option.
- Not available with D3 or D5 option.
- Not available with 347V and 480V supply voltage options.



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ATBS
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Warranty Five-year limited warranty. Complete warranty terms located at:
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Autobahn Series ATBS

Roadway & Security Lighting

PERFORMANCE PACKAGE

ATBS

Performance Package	Distribution	Input Watts	3K (3000K CCT, 70 CRI)					4K/5K (4000K/5000K CCT, 70 CRI)					LLD @ 25°C		
			Lumens	LPW	B	U	G	Lumens	LPW	B	U	G	50k Hours	75k Hours	100k Hours
P10	R2	40	5,360	134	1	0	2	5,577	139	1	0	2	0.82	0.89	0.85
	R3		5,287	132	1	0	1	5,524	138	1	0	1			
	R5		5,576	139	3	0	1	5,758	144	3	0	1			
	D3		4,963	124	1	3	3	5,163	129	1	3	3			
	D5		5,372	134	2	3	3	5,590	140	2	3	3			
P20	R2	50	6,707	134	1	0	2	6,808	136	1	0	2	0.82	0.89	0.85
	R3		6,667	134	2	0	2	6,760	135	2	0	2			
	R5		6,926	139	3	0	1	7,108	142	3	0	1			
	D3		6,496	130	2	3	4	6,244	125	1	3	4			
	D5		7,032	141	3	4	4	7,317	146	3	4	4			
P30	R2	60	8,092	135	2	0	2	8,067	134	1	0	1	0.82	0.89	0.85
	R3		7,971	133	2	0	2	8,328	139	2	0	2			
	R5		8,470	141	3	0	2	8,780	146	3	0	2			
	D3		7,491	125	2	3	4	7,795	130	2	3	4			
	D5		8,110	135	3	4	4	8,438	141	3	4	4			
P40	R2	70	9,138	131	2	0	2	9,533	136	2	0	2	0.82	0.89	0.85
	R3		9,138	131	2	0	2	9,355	134	2	0	2			
	R5		9,866	141	3	0	2	9,710	139	3	0	2			
	D3		8,460	121	2	3	4	8,002	126	2	3	5			
	D5		9,168	131	3	4	6	9,529	136	3	4	6			
P50	R2	82	10,628	130	2	0	3	10,829	132	2	0	3	0.82	0.89	0.85
	R3		10,624	130	2	0	2	10,826	132	2	0	2			
	R5		11,450	140	4	0	2	11,181	136	4	0	2			
	D3		10,143	124	2	4	5	10,559	129	2	4	5			
	D5		10,651	130	3	4	5	11,082	135	3	4	5			
P60	R2	92	11,050	120	2	0	3	11,846	129	2	0	3	0.82	0.89	0.85
	R3		10,911	119	2	0	2	11,862	129	2	0	2			
	R5		12,199	139	4	0	2	12,786	139	4	0	2			
	D3		10,230	111	2	4	5	10,644	116	2	4	5			
	D5		11,074	120	3	4	5	11,523	125	3	4	5			

ATBS with VR

Performance Package	Distribution	Input Watts	3K (3000K CCT, 70 CRI)					4K/5K (4000K/5000K CCT, 70 CRI)					LLD @ 25°C		
			Lumens	LPW	B	U	G	Lumens	LPW	B	U	G	50k Hours	75k Hours	100k Hours
P10	R2 with VR	40	4,450	111	1	0	1	4,561	114	1	0	1	0.82	0.89	0.85
	R3 with VR		4,273	107	1	0	1	4,605	115	1	0	1			
	R5 with VR		4,539	113	2	0	1	4,878	117	2	0	1			
P20	R2 with VR	50	5,481	110	1	0	1	5,550	111	1	0	1	0.82	0.89	0.85
	R3 with VR		5,379	108	1	0	1	5,582	112	2	0	1			
	R5 with VR		5,647	113	2	0	1	5,692	114	2	0	1			
P30	R2 with VR	60	6,479	108	2	0	1	6,530	109	2	0	1	0.82	0.89	0.85
	R3 with VR		6,400	107	2	0	1	6,584	109	2	0	1			
	R5 with VR		6,703	112	3	0	1	6,693	112	2	0	1			
P40	R2 with VR	70	7,307	104	2	0	1	7,561	108	2	0	1	0.82	0.89	0.85
	R3 with VR		7,347	105	2	0	1	7,638	109	2	0	1			
	R5 with VR		7,693	110	3	0	1	7,749	111	3	0	1			
P50	R2 with VR	82	8,552	104	2	0	2	8,711	106	2	0	2	0.82	0.89	0.85
	R3 with VR		8,494	104	2	0	1	8,814	107	2	0	1			
	R5 with VR		8,895	106	3	0	1	8,911	109	3	0	1			
P60	R2 with VR	92	8,898	96	2	0	2	9,015	107	2	0	2	0.82	0.89	0.85
	R3 with VR		8,898	97	2	0	1	9,857	107	2	0	2			
	R5 with VR		9,308	101	3	0	1	10,256	111	3	0	1			

Note: Individual fixture performance may vary. Specifications subject to change without notice.

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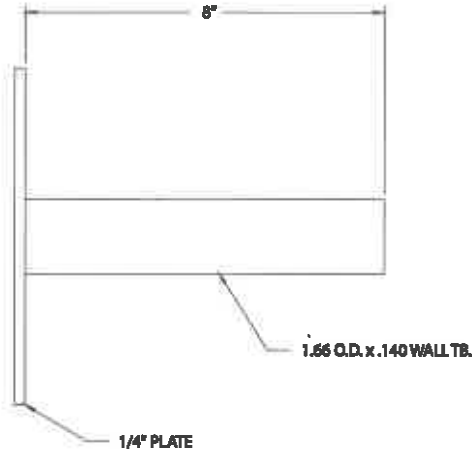
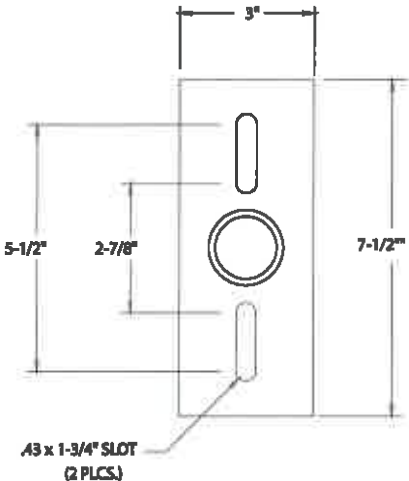
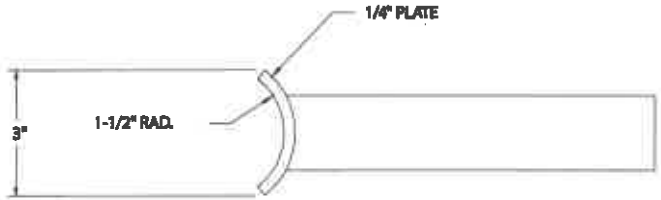
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Autobahn Series ATBS

Roadway & Security Lighting

UMR POLE ADAPTOR

RECOMMENDED FOR USE WITH POLES OF 4" DIAMETER OR SMALLER



UMS POLE ADAPTOR



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Consistent with LEED® goals
& Smart Globes® criteria
for light pollution reduction

Autobahn Series ATBM Roadway

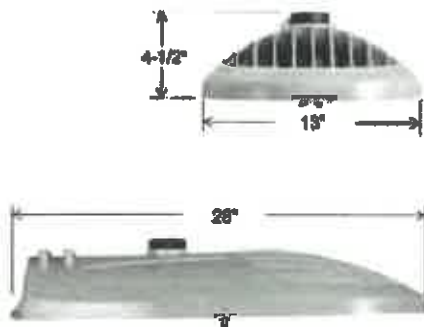
PRODUCT OVERVIEW



Applications:

Residential streets
Parking lots
High speed roadways

DIMENSIONS



Effective Projected Area (EPA)
The EPA for the ATBM is 0.3 sq. ft.,
Approx. Wt. = 21 lbs. (9.5 kg)

STANDARDS

Color temperatures of $\leq 3000\text{K}$ must be specified for International Dark-Sky Association certification.

Rated for -40°C to 40°C ambient

CSA Certified to U.S. and Canadian standards

Complies with ANSI: C136.2, C136.10, C136.14, C136.31, C136.15, C136.37

Features:

OPTICAL

Same Light: Performance is comparable to 150W – 250W HPS

White Light: Correlated color temperature - 4000K, 70 CRI minimum, 3000K, 70 CRI minimum or optional 5000K, 70 CRI minimum.

IP66 rated borosilicate glass optics ensure longevity and minimize dirt depreciation. Unique IP66 rated LED light engines provide 0% uplight and restrict backlight to within sidewalk depth, providing optimal application coverage and optimal pole spacing.

Available distributions are Type II, III, IV, & V roadway distributions.

DualOptic™ visual comfort option is also available for all distributions.

ELECTRICAL

Expected Life: LED light engines are rated $>100,000$ hours at 25°C , L70. Electronic driver has an expected life of 100,000 hours at a 25°C ambient.

Lower Energy: Saves an expected 40-60% over comparable HID luminaires.

Robust Surge Protection: Standard surge protection is 20kV/10kA "Extreme Level" per ANSI C136.2. An optional MOV pack provides 10kV/5kA "Enhanced Level."

MECHANICAL

Includes standard AEL, lineman-friendly features such as tool-less entry, 3 station terminal block and quick disconnects. Bubble level located inside the electrical compartment for easy leveling at installation.

Rugged die-cast aluminum housing and door are polyester powder-coated for durability and corrosion resistance. Rigorous five-stage pre-treating and painting process yields a finish that achieves a scribe creepage rating of 8 (per ASTM D1654) after over 5000 hours exposure to salt fog chamber (operated per ASTM B117).

Mount arm mount is adjustable for arms from 1-1/4" to 2" (1-5/8" to 2-3/8" O.D.) diameter. The 2-bolt and optional 4-bolt clamping mechanism provide 3G vibration rating per ANSI C136.31.

The Wildlife shield is cast into the housing (not a separate piece).

CONTROLS

NEMA 3 pin photocontrol receptacle is standard, with the Acuity designed ANSI standard 7 pin receptacle optionally available.

Premium solid state locking-style photocontrol – PCSS (10 year rated life) Extreme long life solid state locking-style photocontrol – PCL1 (20 year rated life).

Extreme long life solid state locking-style photocontrol with on demand remote on/off control – PCCC (15 year rated life).

Optional onboard Adjustable Output module allows the light output and input wattage to be modified to meet site specific requirements, and also can allow a single fixture to be flexibly applied in many different applications.

Autobahn Series ATBM

Roadway

ORDERING INFORMATION

Series	Performance Packages	Voltage	Optics	Mounting
ATBM Autobahn LED Roadway	P05 9,700 lumens P10 11,000 lumens P20 12,800 lumens P30 15,500 lumens P40 17,400 lumens P50 18,700 lumens P60 20,000 lumens P70 21,500 lumens	MVOLT Multi-volt, 120-277V 347 347V 480 480V	R2 Roadway Type II R3 Roadway Type III R4 Roadway Type IV R5 Roadway Type V	(Blank) 2 Bolt Mounting 4B 4 Bolt Mounting

Options

Color Temperature (CCT)

(Blank) 4000K CCT, 70 CRI Min.
3K 3000K CCT, 70 CRI Min.
5K 5000K CCT, 70 CRI Min.

Paint

(Blank) Gray
BK Black
BZ Bronze
DDB Dark Bronze
GI Graphite
WH White

Surge Protection

(Blank) Standard 20kV/10kA SPD
MP MOV Pack

Miscellaneous Options

HSS House Side Shield
NL NEMA Label Indicating Wattage
XL Not CSA Certified – No Terminal Block Cover
VR⁵ Dual Optix visual comfort
UMR-XX 8" Horizontal Arm for Round Pole, Painted to match Fixture
UMS-XX 8" Horizontal Arm for Square Pole, Painted to match Fixture
UMR-GALV 8" Horizontal Arm for Round Pole, Galvanized
UMS-GALV 8" Horizontal Arm for Square Pole, Galvanized

Control Options

(Blank) 3 Pin NEMA Photocontrol Receptacle
P7 7 Pin Photocontrol Receptacle (dimnable driver included) ¹
NR No Photocontrol Receptacle
AO Field Adjustable Output ²
DM 0-10V Dimmable Driver ²
PCSS Solid-State Lighting Photocontrol ⁴
PCLL Solid-State Long Life Photocontrol
PCCC Solid-State Long Life Photocontrol with remote control on/off ⁴
SH Shorting Cap

Packages

(Blank) Standard Pack
JP Job Pack (36/pallet)

Accessories

ATBMHSS House Side Shield
ATBMLTS Light Trespass Shield
RKATBMMVOLTSPD ATBM Acuity SPD, MVOLT
RKATBMHVSPD ATBM Acuity SPD, 347/480V
RKATBMMVOLTMP ATBM MOV Pack, MVOLT
RKATBMHVMP ATBM MOV Pack, 347/480V

Notes:

- 1 Dimmable Driver included. Not available with DM or NR.
- 2 Controls by others. Not available with P7 or AO.
- 3 Not available with DM.
- 4 MVOLT only.
- 5 VR option does not provide zero uplight performance.



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Rev 1.0 February 2023

ATBM

Autobahn Series ATBM

Roadway

PERFORMANCE PACKAGE

Performance Package	Distribution	Input Watts	3K (3000K CCT, 70 CRI)					4K/5K (4000K/5000K CCT, 70 CRI)					LLD @ 25°C		
			Lumens	LPW	B	U	G	Lumens	LPW	B	U	G	25k Hours	75k Hours	100k Hours
P05	R2	68	9,396	138	1	0	2	9,718	142	1	0	2	0.83	0.88	0.83
	R3		9,366	138	1	0	3	9,688	142	1	0	3			
	R4		9,030	139	1	0	3	9,340	137	1	0	3			
	R5		10,334	152	3	0	2	10,689	157	3	0	2			
P10	R2	81	10,635	131	2	0	3	11,299	139	2	0	3	0.83	0.86	0.83
	R3		10,675	132	2	0	3	11,302	140	2	0	3			
	R4		10,391	128	2	0	4	10,984	136	2	0	4			
	R5		11,504	142	3	0	2	12,086	149	3	0	2			
P20	R2	94	12,073	128	2	0	3	12,874	137	2	0	3	0.83	0.86	0.83
	R3		12,065	128	2	0	3	12,818	136	2	0	3			
	R4		11,948	127	2	0	4	12,525	133	2	0	4			
	R5		13,885	139	4	0	2	13,776	147	4	0	2			
P30	R2	118	14,637	124	2	0	3	15,514	131	2	0	3	0.83	0.86	0.83
	R3		14,631	124	2	0	3	15,452	131	2	0	3			
	R4		14,317	121	2	0	4	15,151	128	2	0	5			
	R5		15,775	134	4	0	2	16,685	141	4	0	2			
P40	R2	135	16,233	120	2	0	3	17,493	130	2	0	3	0.83	0.86	0.83
	R3		16,402	121	2	0	3	17,367	129	2	0	3			
	R4		15,911	118	2	0	5	17,068	126	2	0	5			
	R5		17,507	130	4	0	2	18,595	136	4	0	2			
P50	R2	152	17,541	115	2	0	3	18,748	123	2	0	3	0.83	0.86	0.83
	R3		17,677	116	2	0	4	18,712	123	2	0	4			
	R4		17,154	113	2	0	5	18,246	120	2	0	5			
	R5		19,008	125	4	0	2	20,068	132	4	0	2			
P60	R2	168	18,770	112	2	0	3	20,095	120	3	0	3	0.83	0.86	0.83
	R3		18,830	112	2	0	4	20,094	120	3	0	4			
	R4		18,365	109	2	0	5	19,648	117	2	0	5			
	R5		20,350	121	4	0	2	21,505	128	4	0	2			
P70	R2	190	20,180	108	3	0	3	21,585	114	3	0	3	0.83	0.86	0.83
	R3		20,142	108	3	0	4	21,504	113	3	0	4			
	R4		19,860	103	2	0	5	21,024	111	3	0	5			
	R5		21,988	116	4	0	2	23,076	121	4	0	2			

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Autobahn Series ATBM Roadway

PERFORMANCE PACKAGE																
ATBM with DualOptix	Distribution	Input Watts	3000K					4000K/5000K					LDD @ 25°C			
			Lumens	LPW	B	U	G	Lumens	LPW	B	U	G	50k Hours	75k Hours	100k Hours	
P06	R2 with VR	68	8,925	122	2	3	3	8,609	127	2	3	3	0.93	0.86	0.83	
	R3 with VR		8,296	122	2	3	3	8,581	128	2	3	3				
	R4 with VR		7,998	118	2	3	4	8,273	122	2	3	4				
	R5 with VR		9,164	136	3	3	3	9,468	139	3	3	3				
P10	R2 with VR	81	9,421	116	2	3	3	10,009	124	2	3	3	0.93	0.86	0.83	
	R3 with VR		9,456	117	2	3	4	10,012	124	2	3	4				
	R4 with VR		9,204	114	2	3	4	9,738	120	2	3	4				
	R5 with VR		10,191	126	3	3	3	10,708	132	3	3	3				
P20	R2 with VR	94	10,954	114	2	3	4	11,404	121	2	3	4	0.93	0.86	0.83	
	R3 with VR		10,867	114	2	3	4	11,354	121	2	3	4				
	R4 with VR		10,561	113	2	3	5	11,094	118	2	3	5				
	R5 with VR		11,581	123	3	3	3	12,203	130	3	3	3				
P30	R2 with VR	118	12,868	110	2	3	4	13,742	118	2	3	4	0.93	0.86	0.83	
	R3 with VR		12,880	110	2	3	4	13,687	118	2	3	5				
	R4 with VR		12,681	107	2	3	5	13,420	114	2	3	5				
	R5 with VR		13,974	118	3	3	3	14,780	125	3	3	3				
P40	R2 with VR	135	14,379	107	2	3	4	15,495	115	3	3	5	0.93	0.86	0.83	
	R3 with VR		14,529	108	2	3	5	15,384	114	3	3	5				
	R4 with VR		14,093	104	2	3	5	15,066	112	3	3	5				
	R5 with VR		15,508	115	3	3	3	16,471	122	4	3	3				
P50	R2 with VR	152	15,538	102	3	3	5	16,607	109	3	3	5	0.93	0.86	0.83	
	R3 with VR		15,858	103	3	3	5	16,576	109	3	3	5				
	R4 with VR		15,195	100	3	3	5	15,162	106	3	3	5				
	R5 with VR		16,837	111	4	3	3	17,784	117	4	3	4				
P60	R2 with VR	168	16,828	98	3	3	5	17,800	108	3	3	5	0.93	0.86	0.83	
	R3 with VR		16,679	98	3	3	5	17,789	108	3	3	5				
	R4 with VR		16,271	97	3	3	5	17,404	104	3	3	5				
	R5 with VR		18,026	107	4	3	4	19,049	113	4	3	4				
P70	R2 with VR	190	17,884	84	3	3	5	19,102	101	3	3	5	0.93	0.86	0.83	
	R3 with VR		17,842	84	3	3	5	19,048	100	3	3	5				
	R4 with VR		17,415	82	3	3	5	18,623	98	3	3	5				
	R5 with VR		19,477	103	4	3	4	20,440	108	4	3	4				



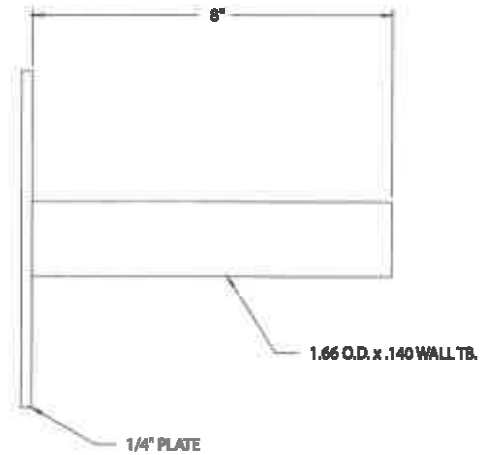
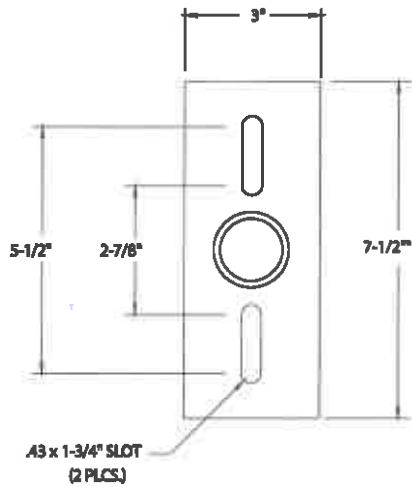
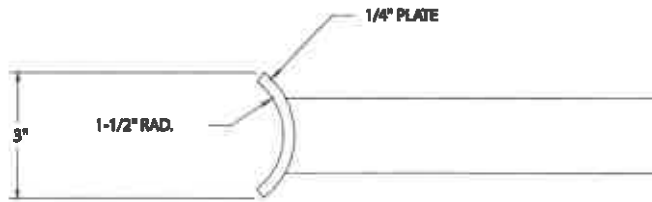
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Autobahn Series ATBM Roadway

UMR POLE ADAPTOR RECOMMENDED FOR USE WITH POLES OF 4" DIAMETER OR SMALLER



UMS POLE ADAPTOR



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ATBM



SMART CONTROL SPECIFICATIONS SHEETS



Specifications

Lamp Interface	LED, CF and HID
Lamp Power	960W@480V, 554W@277V, 480W@240V, 240W@120V
On/Off	Photocell control, software programmable
Dimming Controls	PWM, 0-10V, DALI, DALI2
Dimming Range	DIM 1 - 0-10V PWM, ability to detect stray voltage but prohibits external sensor use DIM 2 - 0-10V PWM, ability to hardwire an external sensor, but prohibits the ability to detect stray voltage DIM 3 - DALI enabled, ability to hardwire an external sensor, plus the ability to detect stray voltage
External Sensor Interface	DALI/DALI 2
Communication Module	LTE CAT-1
Location Based Services	GPS, WiFi traffic movement, Bluetooth info beacons
OTA Updates	Yes
Security	AES 128/256-bit encryption
Voltage Detection	Real-time detection of "energized" metal poles
Power Surge Protection	10KV/5KA
Power Supply	90V to 506V (50/60Hz)
Average Power Consumption	1W
IP Ratings	IP66
Impact Rating	IK07
Operating Temperature Range	-30C to +70C
Dimensions	Diameter: 82.5mm (3.25 in) Height: 98mm (3.86 in)
Weight	290 grams
Network Protocol	IPv4 and IPv6 network compliant

Utility Power Metering

Accuracy	ANSI C12.20 Class 0.5
Accuracy Verification	Infrared pulse
Line Voltage	90V to 506V (50/60Hz)
Line Voltage Accuracy	+/- 0.5%
Current Accuracy	+/- 0.3%
Power	Active/reactive/power factor
Energy Consumption	kWh
Sag & Swell Detection	Yes
On/Off Cycles	Cycle count and cycle variation (fault detection)
Running Hour	0-10 years

Programmable Parameters

- Customer device management
- Scheduling controls
- Alert thresholds
- Sunrise/sunset offsets
- Tilt detection
- Vibration detection
- Voltage detection
- Power detection
- Photocell levels
- Luminaire fault detection
- Power loss after power failure
- Network communication failure
- Wireless network configuration

Warranty

- 5-Year Warranty
- 10-Year Optional Warranty





POLE AND ARM SPECIFICATIONS SHEETS

FOR BREAKA AND REPAIR

2. INSTALL DIRI SPECIFIED. DIRECT-MOU REQUIREMEN

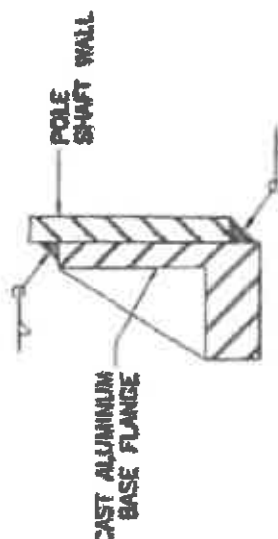
3. ALUMINUM A ALUMINUM A ASTM B 10E ACCOMMODA AND SHALL FULL MOMEN STRENGTHS BASE FLANG OUTSIDE DIA MAY BE INCI BASE FLANG

4. ANCHOR BOI FOR THE ALI THE PROVIDI BOLT SIZES MINIMUM.

5. ANCHOR BOI LENGTHS SH 7071-07-9, DIRECT-MOU ACCORDING

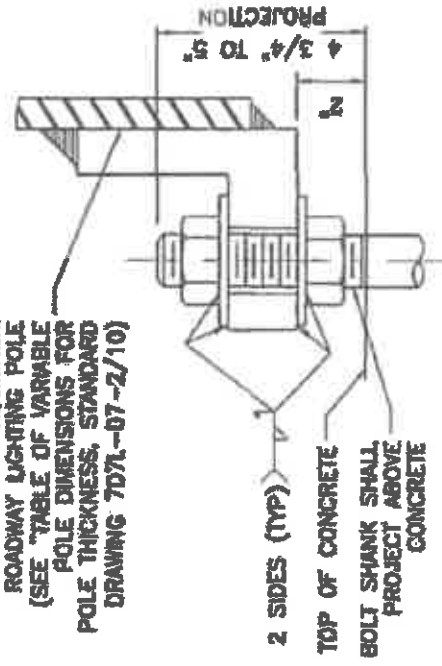
6. WHEN BREAK THREAD UNC THAT OF TH

MOUNTING HEIGHT (FT)	WELD SIZE (SINGLE ARM) (IN)	WELD SIZE (DOUBLE ARM) (IN)
50	5/16	3/8
40	5/16	3/8
30	1/4	1/4



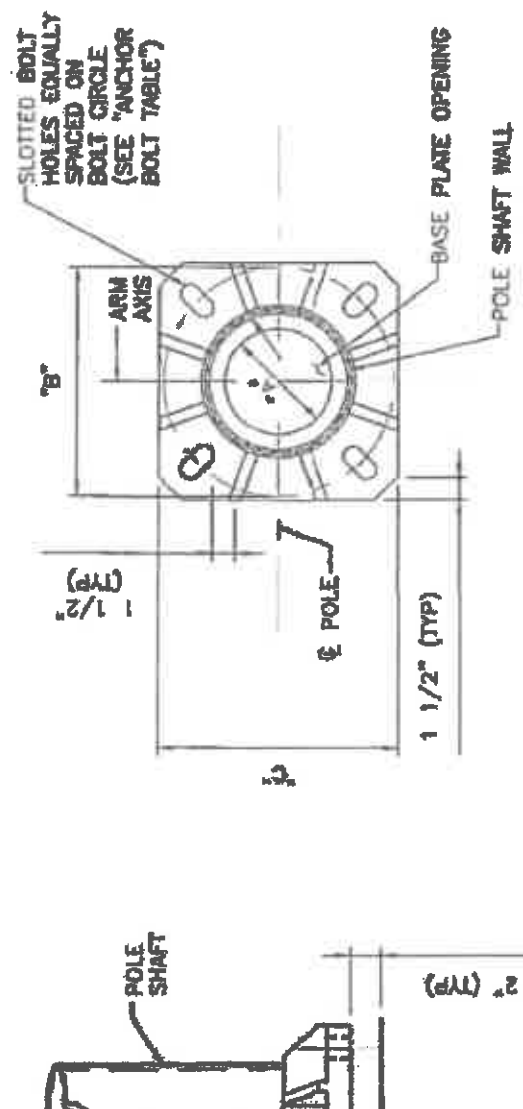
BASE WELD DETAIL
NOT TO SCALE

ALUMINUM ROADWAY LIGHTING POLE (SEE "TABLE OF VARIABLE POLE DIMENSIONS FOR POLE THICKNESS, STANDARD DRAWING 7071-07-2/10)

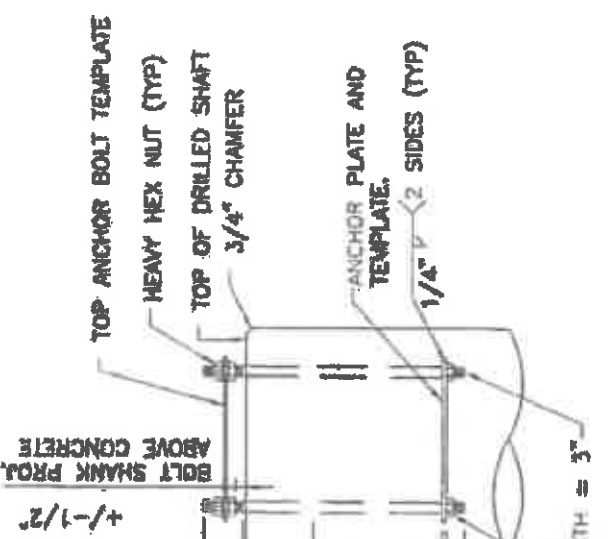


ANCHOR BOLT DETAIL
NOT TO SCALE

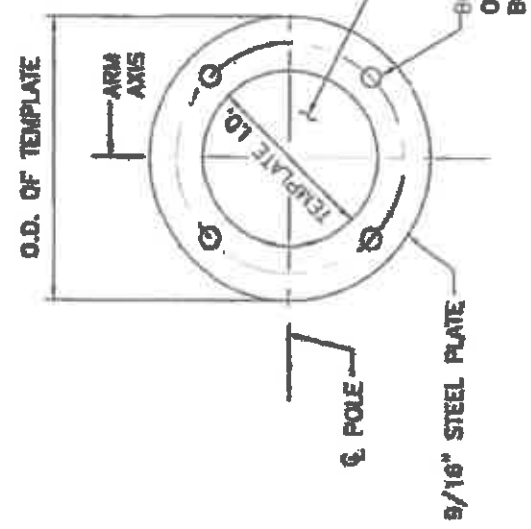
NUMBER OF BOLTS	SLOTTED HOLE SIZE (IN x IN)	BOLT CIRCLE DIAMETER "B"	BOLT TEMPLATE O.D. (IN)	BASE PLATE OPENING "A" (IN)	WIDTH "C" (IN)	THICKNESS "D" (IN)
4	1.25 x 2.25	15.0	18.0	7.0	16.0	1.0
4	1.25 x 2.25	11.5	14.5	6.0	14.0	1.0
4	1.25 x 2.25	11.5	14.5	6.0	14.0	1.0



POLE BASE PLAN
NOT TO SCALE



EVALUATION
NOT TO SCALE



ANCHOR BOLT DETAIL
NOT TO SCALE

THIS STANDARD PROJECTS C DRAWINGS D WILL BE FOR NOT BE FOR DESIGNER WHO THE RESPONS

DATE

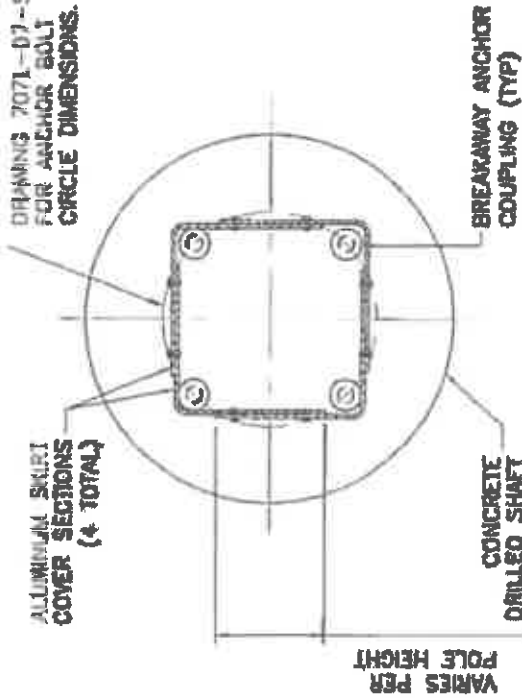
DEPART



ANCHOR BOLT DETAILS AND REQUIREMENTS.

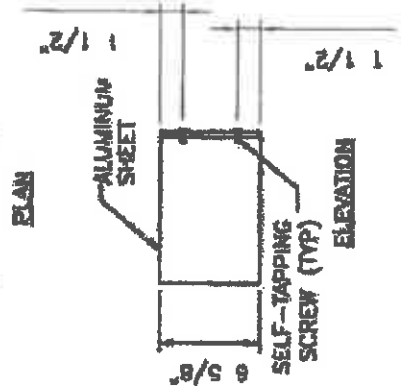
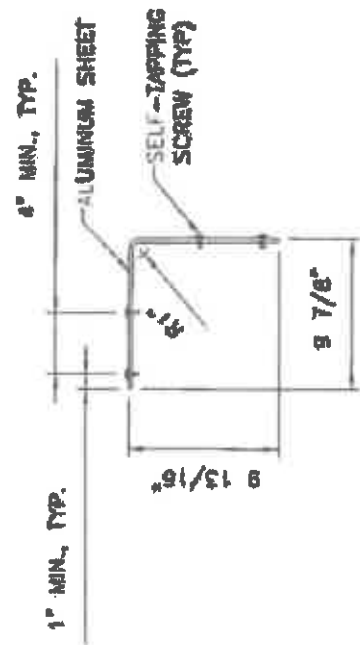
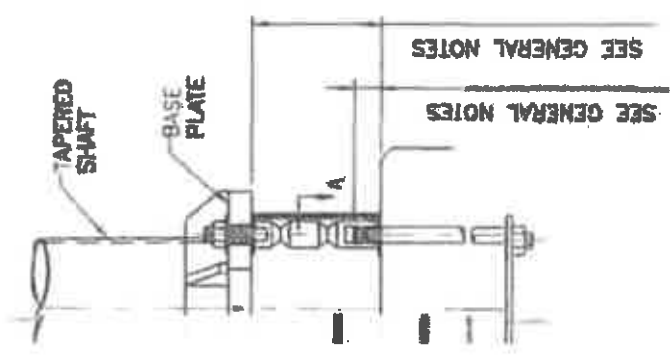
2. SKIRT COVER SHALL BE FABRICATED FROM 1/16" SHEET ALUMINUM.
3. WHEN BREAKAWAY BASES ARE SPECIFIED, EACH LIGHT POLE SHALL HAVE FOUR (4) SKIRT COVER SECTIONS AND SIXTEEN (16) SCREWS.
4. THE INTENDED USE OF THE SKIRT COVER IS TO ENCLOSE THE V-BREAKAWAY SUPPORT COUPLINGS.
5. SCREWS SHALL BE SELF-TAPPING #10 x 5/8" STAINLESS STEEL.
6. BREAKAWAY SUPPORT COUPLINGS SHALL MEET THE REQUIREMENTS OF SECTION 350, AND THE REQUIREMENTS IN 2015 (1st EDITION) MASHYO LR STRUCTURAL SUPPORTS FOR HIGHWAY SIGNS, LUMINAIRES AND TRAFFIC SIGNALS.
7. WHEN BREAKAWAY BASES ARE SPECIFIED, EACH LIGHT POLE SHALL HAVE FOUR (4) COUPLING SYSTEMS, COMPLETE WITH COUPLINGS, THREADED NUTS, AND SHIMS.
8. BREAKAWAY ASSEMBLY DIMENSIONS VARY PER MANUFACTURER. PROJECTIONS AND BASE PLATE OFFSETS IN ACCORDANCE WITH THE MANUFACTURER'S SPECIFICATIONS.
9. ALTERNATE DESIGNS OF BREAKAWAY ASSEMBLIES MAY BE APPROVED BY THE PROJECT MANAGER, PROVIDED THEY MEET THE REQUIREMENTS HEREIN. THE MANUFACTURER SHALL BE RESPONSIBLE FOR PROVIDING THE NECESSARY INFORMATION TO THE PROJECT MANAGER TO VERIFY THE COMPATIBILITY OF THE BREAKAWAY SYSTEMS WITH THE REQUIREMENTS OF THIS SPECIFICATION.
10. CERTIFICATION OF BOTH BREAKAWAY AND STRUCTURAL ADEQUACY, AND/OR TEST DATA OF PRODUCTION SAMPLES TO SUPPORT CERTIFICATION SHALL BE PROVIDED FOR BREAKAWAY SYSTEMS.

DRAWING 7071-07-5/10 FOR ANCHOR BOLT CIRCLE DIMENSIONS.



**SECTION A-A:
BREAKAWAY BASE SECTION**
NOT TO SCALE

**LAMP POLE
ELEVATION**
0 SCALE

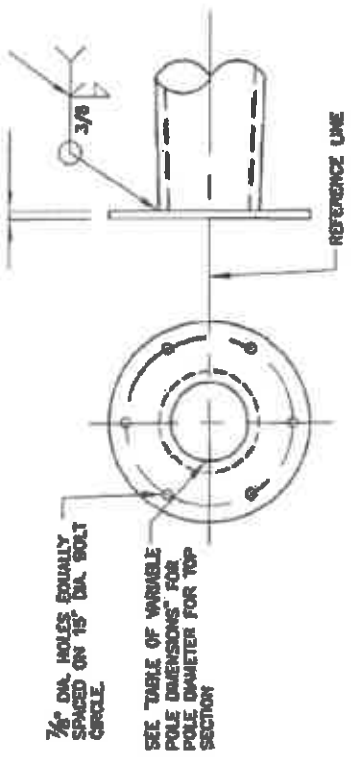


THIS STANDARD PROJECTS, DRAWINGS, AND SPECIFICATIONS WILL BE THE PROPERTY OF THE DESIGNER WHO HAS DESIGNED THEM. THE RESPONSE TO THIS STANDARD PROJECTS, DRAWINGS, AND SPECIFICATIONS WILL BE THE PROPERTY OF THE DESIGNER WHO HAS DESIGNED THEM.

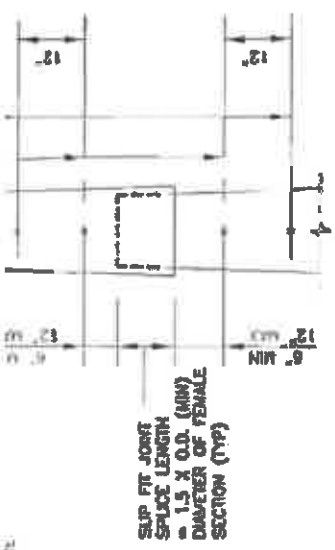


DEPART

HEIGHT (SECTION) "M"	SECTION LENGTH "M"	HEIGHT (SECTION) "FT"	SECTION LENGTH "FT"
1.50	1	40.00	33
2	2	38.50	26
3	3	39.42	18
4	4	37.50	0.1
1.20	1	42.00	26
2	2	41.33	18
3	3	40.33	0.1
1.00	1	37.00	25
2	2	31.67	19
3	3	40.00	0.1
1.75	1	38.92	20
2	2	37.75	0.1



TOP CONNECTION DETAIL
NOT TO SCALE



SLIP JOINT DETAIL
NOT TO SCALE

GENERAL NOTES

DESIGN CONFORMS TO 2001 AASHTO STANDARD SPECIFICATIONS FOR STRUCTURAL SUPPORTS FOR HIGHWAY SIGNS, LUMINAIRES AND TRAFFIC SIGNALS, WITH REVISIONS UP TO AND INCLUDING 2006 INTERIMS.

7. DESIGN CRITERIA

- RECURRENT INTERVAL = 50 YRS
- SERVICE LIFE = 50 YRS
- DESIGN WIND SPEED = 90 MPH
- GUST EFFECT FACTOR = 1.14
- FATIGUE CATEGORY 1
- MATERIALS (POLES AND HANG HOLES): 55,000 PSI MINIMUM YIELD

MAXIMUM NUMBER OF LUMINAIRES IS EIGHT (8). MAXIMUM HEIGHT OF EACH LUMINAIRE IS 85 LBS. WITH A PROJECTED AREA OF 3.4 FT².
MAXIMUM ALLOWABLE DEFLECTION = 9% OF POLE HEIGHT.

8. WORKMANSHIP AND MATERIALS SHALL CONFORM TO NEW MEXICO DEPARTMENT OF TRANSPORTATION (INDOT) STANDARD SPECIFICATIONS FOR HIGHWAY AND BRIDGE CONSTRUCTION CURRENT EDITION. CONTRACTOR SHALL CONTACT INDOT FOR APPROVED PRODUCTS LISTING.

9. POLES SHALL CONSIST OF ROUND TELESCOPING SECTIONS, TAPERED AT A RATE OF 0.14"/FOOT. MULTI-SIDED SECTIONS WILL BE PERMITTED AS AN ALTERNATE DESIGN. SEE NOTE 9 FOR REQUIREMENTS.

10. MATERIALS:

- A. POLES SHALL BE STEEL OF 50 KSI MINIMUM YIELD STRENGTH AFTER FABRICATION.
- B. BASE PLATES AND ANCHOR BOLT TEMPLATES SHALL BE PER AASHTO M-183 (ASTM A-36).

11. HARDWARE AND ANCHOR BOLTS SHALL BE PER AASHTO M-314 (ASTM F-1554), CR 52. EACH BOLT SHALL BE SUPPLIED WITH A MINIMUM OF THREE HEAVY HEX NUTS AND TWO FLAT WASHERS. STEEL BOLT TEMPLATES SHALL BE SUPPLIED WITH ANCHOR BOLTS. NUTS SHALL BE ASTM A-563. WASHERS SHALL BE ASTM A-436.

12. PRELOAD BOLTS BASED ON BOLT TYPE AND DIAMETER. PROVIDE LOCKING ADHESIVE (NO INDUSTRIES, NYLOCK, LOCKITE, OR APPROVED EQUAL).

13. GALVANIZING:

- A. POLES AND PLATES SHALL BE GALVANIZED PER AASHTO M-111-94 (ASTM A-123).
- B. HARDWARE AND ANCHOR BOLTS SHALL BE HOT-DIPPED GALVANIZED PER AASHTO M-232 M (ASTM A-153).

14. WELDS:

ALL FABRICATORS SHALL BE CERTIFIED UNDER INDOT SPECIFICATION SECTION 941.3 "CERTIFICATION OF STEEL FABRICATORS", AND SHALL CONFORM TO THE LATEST EDITION OF THE STRUCTURAL WELDING CODE (AWS/AWS D1.1) AND SHALL

1. THE CONTRACTOR/FABRICATOR SHALL FURNISH EIGHT SETS OF SHOP DRAWINGS OF ALL HIGH MAST LUMINAIRE SUPPORT STRUCTURE COMPONENTS FOR THE TYPE VI LOWERING STANDARD TO THE STATE BRIDGE ENGINEER FOR APPROVAL. SHOP DRAWINGS SHALL COVER ALL MECHANISMS/PARTS REQUIRED FOR THE INSTALLATION. THE CONTRACTOR SHALL FURNISH AN APPROPRIATE CERTIFICATION OF COMPLIANCE WITH ALL DESIGN REQUIREMENTS. THE CONTRACTOR'S CERTIFICATION SHALL APPEAR ON THE DRAWINGS. THE CONTRACTOR MUST RECEIVE WRITTEN APPROVAL OF THE SHOP DRAWINGS FROM THE ENGINEER PRIOR TO BEGINNING FABRICATION OR ASSEMBLY OF PARTS.

2. THE INFORMATION AND DETAILS PROVIDED FOR POLES, ANCHOR BOLTS, HANG HOLES, AND FOUNDATIONS IN THESE STANDARDS ARE MINIMUM REQUIREMENTS. DESIGN AND DETAILS FOR ALTERNATE DESIGNS AND ALL OTHER LUMINAIRE SUPPORT STRUCTURE COMPONENTS SUCH AS TOP CONNECTION PLATE, SPECIFIC REQUIREMENTS FOR HANG HOLES TO ACCOMMODATE INTERNAL WIND, HEADFRAME ASSEMBLY, LUMINAIRE FRING ASSEMBLY, AND TOP LATCH LOWERING DEVICE SHALL BE PROVIDED BY CONTRACTOR/FABRICATOR IN COMPLIANCE WITH AASHTO SPECIFICATIONS REFERENCED IN NOTE 1 AND ALL OTHER GOVERNING ELECTRICAL AND MECHANICAL SPECIFICATIONS.

3. THE TOP CONNECTION DETAIL MAY BE REVISED TO COMPLY WITH THE REQUIREMENTS OF THE TOP LATCH LOWERING DEVICE SYSTEM. THE REVISED TOP CONNECTION DETAIL SHALL BE SUBMITTED TO INDOT FOR REVIEW AND APPROVAL AS PART OF THE DESIGN FOR THE TOP LATCH LOWERING DEVICE SYSTEM.

4. ALL TYPE VI STANDARDS SHALL BE EQUIPPED WITH AN INTERNAL MOTOR ASSEMBLY WITH 20' REMOTE CONTROL FOR THE LOWERING DEVICE. LOWERING DEVICES SHALL BE TOP LATCH AS APPROVED BY LIGHTING DESIGN ENGINEER. THE INTERNAL MOTOR ASSEMBLY AND LOWERING DEVICE WILL BE SUBSIDIARY TO THE HIGH MAST POLE PAY ITEM.

5. THE LOWERING DEVICE, LIGHTING FIXTURES AND POLES SHALL BE MANUFACTURED BY THE MANUFACTURER.

6. FACTORY REPRESENTATIVE SHALL PROVIDE ONE DAY TRAINING AND VIDEO TAPE ON OPERATING THE LOWERING DEVICE SYSTEM FOR THE LOCAL MAINTENANCE AGENCY AND LOCAL POWER COMPANY. THIS TRAINING SHALL BE APPROXIMATELY ONE-HALF IN THE CLASSROOM AND ONE-HALF IN THE FIELD.

7. APPROXIMATELY 90 DAYS AFTER INSTALLATION, A FACTORY REPRESENTATIVE SHALL RETURN TO THE PROJECT SITE TO ADJUST THE LOWERING DEVICE CABLES AND LATCHING MECHANISM. THE CONTRACTOR SHALL COORDINATE WITH THE INDOT LIGHTING ENGINEER, THE LOCAL MAINTENANCE AGENCY, AND THE LOCAL POWER COMPANY TO BE PRESENT WHILE THE ADJUSTMENTS ARE MADE.

8. DURING THE ERECTION OF THE HIGH MAST LIGHTING POLES AND LOWERING DEVICES, A FACTORY REPRESENTATIVE SHALL BE PRESENT TO ENSURE CORRECT ERECTION.

9. CONTRACTOR SHALL PROVIDE COPIES OF ALL HIGH MAST LIGHTING SYSTEM TECHNICAL DATA, CALCULATIONS, SHOP DRAWINGS, AND LUMINAIRE TYPE INFORMATION TO THE LOCAL MAINTENANCE AGENCY AND THE LOCAL POWER COMPANY.

10. THE DESIGN PROVIDED FOR THIS STANDARD MUST BE RE-EVALUATED FOR POLES LOCATED IN ELEVATED REGIONS AND POLES LOCATED IN SPECIAL WIND REGIONS.

Alfred

NO.	DATE

DEPAR

TYPE VI LIGHTING STANDARD

SLIP FIT JOINT
SPURCE LENGTH
= 1.5 X O.D. (MM)
DIAMETER
OF FEMALE
SECTION (TYP)
(SEE "SLIP JOINT DETAIL"
THIS SHEET).

NOTE 7, TYP

11" X 30"
REINFORCED
HANG HOLE
SEE ANCHOR BOLT TABLE
7071-08-3/7 FOR ANCHOR
BOLT INFORMATION.





Community-Guided Smart LED Street Lighting Monthly Operations Report

October 2023

Report Date: 11/09/2023

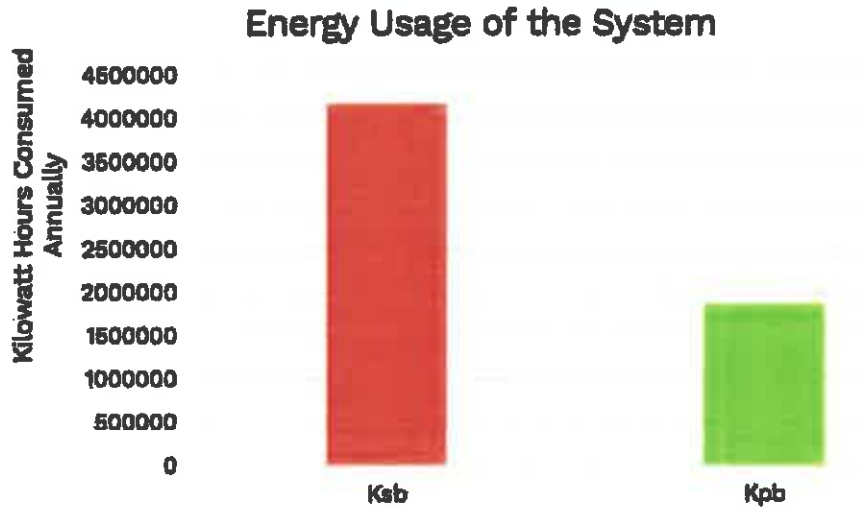


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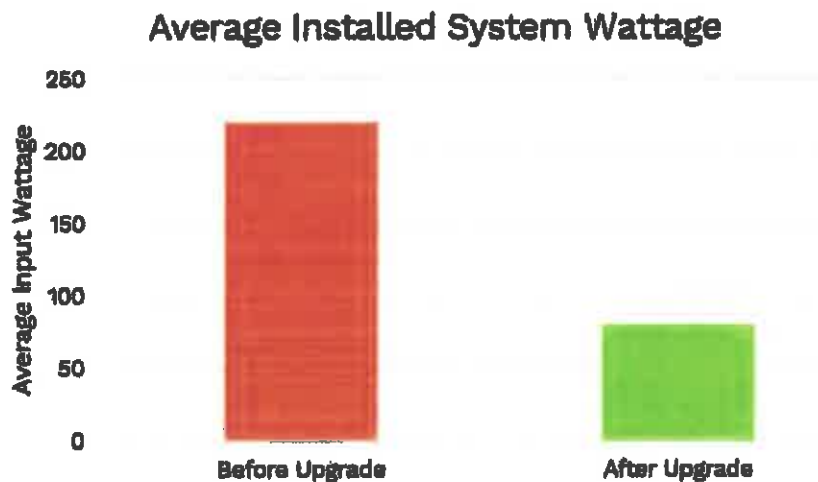
Energy Savings	3
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Service	4
Self-Detection	4
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Outage Rate	6
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Repairs	8
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Energy Savings

One of the greatest benefits of the GMPC is the continued energy savings. The conversion of the lights guarantees savings of at least 2,234,042 kWh energy savings. Figure 1 shows the energy consumption of the system before being upgraded to the Community-Guided Smart Lighting Design LED specifications (Ksb) and the energy consumption of the system fully converted to Smart LED (Kpb) today.



The energy savings captured through the GMPC currently (Ke) is 2,563,317 kWh/year. The *estimated** on-bill electricity savings accumulated through the date of this report is \$337,764.58. The estimated annual on-bill savings is \$233,060.93.



The current average installed wattage of the system (Kw) is 82.8 W.

**based on information Dalkia has provided to PNM.*

Lighting Levels & Dark Sky Protection

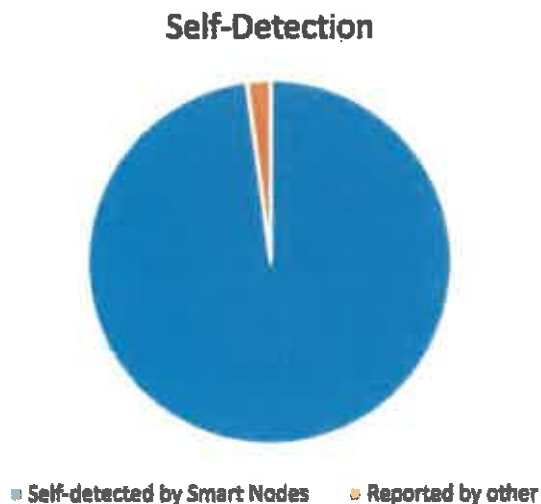
The program has increased lighting levels on the roadways across Santa Fe without increasing up lighting through using dark sky friendly luminaires.



Service

Self-Detection

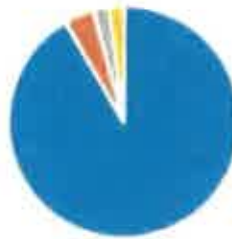
Self-Detection allows Dalkia to proactively monitor the System and respond to outages as quickly as possible. The minimum allowable percentage of self-reported (Smart Node) outages is 75%. This month, the self-detection ratio exceeded this at 97.9%.



New Lights Detected Out & Open Cases

During the month, 47 incidents were detected or reported out. The table below summarizes the breakdown by fault type along with other new open cases:

New Lights Detected Out



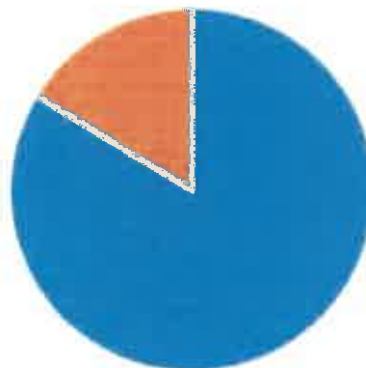
• D&M • Pole Knockdown - G3 • Damaged Overhead Wiring - G3 • Copper Theft/Vandalism - G3

Cases have been opened for all detected outages. For specific inquiries, reach out to Dalkia.

O&M and Repairs Activity

During the previous month, 41 outages were addressed through routine operation and maintenance. Additionally, 8 outages were resolved through unscheduled maintenance.

Incidents Closed



■ Incidents resolved through O&M ■ Incidents resolved through Repair

Outage Rate

The outage rate (Ko) is the number of assets out during a given month compared to the total number of existing assets. This KPI measures the maintenance program’s efficiency in proactively servicing the System to prevent outages and should be below 2.00%. This month, Ko was 1.1%.



Availability of the Assets

The KPI for the availability of the assets (Ka) measures the average percentage of time that the System is operating on a monthly basis. Dalkia reviews each street light individually to calculate the number of days that each street light is operating and functioning within the respective month.

$$K_a = \frac{\sum_i^N \left(\frac{d_i}{D_a}\right)}{N}$$

N = number of assets in inventory during given month
d_i = number of days a given fixture was out during given month
D_a = number of days in given month

Dalkia is responsible for maintaining Ka at 2% or less, such that the average availability of the assets meets or exceeds 98%. During this month, availability was 99.7%.

Operational KPI Summary Table

Category	Sub-Category	Designation	Commitment	Unit	Periodicity	Actual
Energy	Consumptions	Ke- Guaranteed Annual Savings	2,234,042	kWh	Annually	2,563,317
Operations and Maintenance	Operation & Maintenance	Km - Accuracy of CMMS database	97%	% of assets	Monthly	100%
	Maintenance	Ko - Outage Rate	Less than 2%	% of assets	Monthly	1.1%
	Maintenance	Ka - Availability of the assets	More than 98%	% of assets	Monthly	99.7%
	Operations	Ks - Self Detection	More than 75%	% of tickets	Monthly	97.9%
	Operations	Kt - Emergency Response Time	3 Hours	Hour	Per occurrence	0.5
	Operations	Kd1 - Delay of Unscheduled Maintenance or Repairs - single SL*	5 Days	Business Day	Per occurrence	2.6
	Operations	Kd2 - Delay of Unscheduled Maintenance or Repairs - more than 3 single lights in a row	2 Days	Business Day	Per occurrence	N/A
	Operations	Kd3 - Delay of Unscheduled Maintenance or Repairs - Poles, Arms & Foundation	8 Weeks	Standard Week	Per occurrence	4.1
	Operations	Kq - Monthly Report	One Report	Report	Monthly	1
	Operations	Klp - Lighting Performance	100%	% of IES standard values	Annually	N/A
	Operations	Kw - Average Installed Wattage	84	Watts	Annually	82.8



Financial Reporting

Operations & Maintenance

The annual Services payment, adjusted annually to reflect the applicable CPI, is \$186,774.12 before applicable tax. This is invoiced in monthly installments of \$15,564.51 before applicable tax.

Repairs

Repairs are considered separate scopes of work and, in accordance, independent from the annual Services payment.

During this month, Dalkia completed the pole knockdown at E Alameda St & Shelby St.

Report Number	Location	Pre-tax Total
SF23-029	E Alameda St & Shelby St	\$4,764.34

Additional Work

There are currently no additional projects.



City of Santa Fe

Summary of Contract, Agreement, Amendment & Lease

All applicable fields to be completed by department (complete 1.b only if you are processing an amendment):

1.a Munis Contract: 3204540 Procurement # (RFP/ITB# If any): _____

Contractor: Public Service Company of New Mexico (PNM)

Procurement Method: Small Purchase RFP ITB Sale Source GSA Cooperative Exempt

Description/Title: LED Streetlight Conversion for approx 1,100 PNM owned streetlights to meet Roadway Lighting Standards.

Contract: Agreement: Lease/Rent: Amendment:

Term Start Date: _____ Term End Date: TBD Total Contract Amount: \$568,511

Approved by Council (If over the City Manager's approval threshold, you must go through GB) TBD

Contract / Lease:

1.b Amendment #: _____ to the Original Contract/Lease # _____

Increase/(Decrease) Amount \$: _____

Extend Expiration Date to: _____

Approved by Council (If the original went through GB, all amendments must go through GB regardless of the amendment reason) Date: _____

Amendment is for:

2. HISTORY of Contract, Amendments & Lease / Rent - Please Elaborate (option: attach spreadsheet if multiple amendments)

04/14/2021 - GB approved contract with PNM to convert 2,000 PNM owned streetlights to LED's

3. Procurement History: Exempt Procurement (NMSA13-1-98.D)

+ Purchasing Officer Review: _____ Date: Feb 15, 2024

Comment & Exceptions: _____

4. Funding Source: CIP Resource Conservation

Org / Object: 3159980-572970

Andy Hopkins Budget Officer Approval: _____ Date: Feb 15, 2024

Comment & Exceptions: _____

5. Grant History (if applicable): N/A

Grants Administrator Approval: _____ Date: _____

Staff Contact who Completed This Form: Amanda Archuleta Phone #: 505-955-6631

To be recorded by City Clerk: _____ Email: ajarchuleta@santafenm.gov

Clerk # _____ Date of Execution: _____

ITT Representative (attesting that all information is reviewed) _____ Title _____ Date _____

CITY OF SANTA FE PROCUREMENT CHECKLIST



Contractor Name: PNM (Public Service Company of New Mexico)

Procurement/contract Title: Streetlight Conversion to LED's

Procurement Method: Sole Source State Price Agreement/Existing Cooperative

Request For Proposals(RFP) Invitation To Bid (ITB) Exempt: 13-1-98.D

Small Purchase (Contract Under \$60,000) Other: _____

Requesting Department: Public Works **Staff Name:** Mike Dalmolin

Procurement Requirements:

Procurement files shall be maintained for all purchases and contracts, regardless of the method of procurement. The procurement files shall contain the basis on which the awards are made, all submitted bids/proposals, all evaluation materials (bid tabs or Evaluation Committee Reports), scoresheets, quotations, and all other documentation related to or prepared in conjunction with evaluations, negotiations, and the award processes. The procurements shall contain written determinations from the Requesting Departments, signed by the Chief Procurement Officers (this document), setting forth the reasoning for the contract award decisions before submitting them to the Committees.

REQUIRED DOCUMENTS FOR APPROVAL BY PURCHASING

YES	N/A		YES	N/A	
<input checked="" type="checkbox"/>	<input type="checkbox"/>	Written Determination (srvs)	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Quote(s) (3 Valid & Current for Over 20k)
<input type="checkbox"/>	<input checked="" type="checkbox"/>	RFP (include ECR)	<input type="checkbox"/>	<input checked="" type="checkbox"/>	BAR
<input type="checkbox"/>	<input checked="" type="checkbox"/>	ITB (include bid tab)	<input type="checkbox"/>	<input checked="" type="checkbox"/>	FIR
<input type="checkbox"/>	<input checked="" type="checkbox"/>	Other: _____	<input type="checkbox"/>	<input type="checkbox"/>	Certificate of Insurance (srvs)
<input type="checkbox"/>	<input type="checkbox"/>	Cooperative Agreements and GSAs and Statewide Price Agreements (include the cover page to show valid date, scope page, and items to be purchased)			
<input type="checkbox"/>	<input checked="" type="checkbox"/>	Horizon Declination or Screenshot of horizonsofnewmexico.org/services.html (srvs)			
<input checked="" type="checkbox"/>	<input type="checkbox"/>	Summary of Contract (only on contracts)			
<input type="checkbox"/>	<input type="checkbox"/>	Current Business Registration (always)			
<input checked="" type="checkbox"/>	<input type="checkbox"/>	Executed Contract or Price Agreement (legal and contractor must sign before purchasing approves)			
<input type="checkbox"/>	<input checked="" type="checkbox"/>	Chief Procurement Officer (or designee) Approval for Exempt from Procurement (use memo on our site)			
<input type="checkbox"/>	<input checked="" type="checkbox"/>	Evaluation Committee Report (RFPs only)			
<input type="checkbox"/>	<input checked="" type="checkbox"/>	Signed Sole Source Determination, Vendor Written Quote, SS Letter from Contractors, and 30 Days Email			
<input type="checkbox"/>	<input checked="" type="checkbox"/>	>20k = Memo addressed to City Manager (Under 150K) Committees/City Council (Over 150K)			

Mike Dalmolin
Department Point of Contact

Traffic Operations Engineering Supervisor
Title

01/30/2024
Date

Department Director

Date

[Signature]

Feb 15, 2024

Chief Procurement Officer

Date

ITT Representative

Title

Date









24-0120 Public Service Company of New Mexico - PNM

Final Audit Report

2024-02-29

Created:	2024-02-29
By:	Xavier Vigil (xivigil@ci.santa-fe.nm.us)
Status:	Signed
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