

**City of Mission
Special City Council Meeting
Wednesday, October 1, 2014
6:00 p.m.**

AGENDA

1. Contract for the Purchase of Johnson Drive Streetlights
2. Executive Session – Discussion of a Personnel Matter of Non-Elected Personnel
3. Appointment of Interim City Administrator
4. Adjournment



City of MISSION

City Hall - 6090 Woodson Road - Mission, Kansas 66202

Administrative Offices (913) 676-8350

www.missionks.org

NOTICE OF SPECIAL GOVERNING BODY MEETING

OFFICE OF THE CITY CLERK MISSION, KANSAS

TO: Steve Schowengerdt, Mayor

You are hereby notified that there will be a special meeting of the Governing Body at 6:00 p.m., Wednesday, October 1, 2014 at Mission City Hall, 6090 Woodson for the purpose of considering the following items:

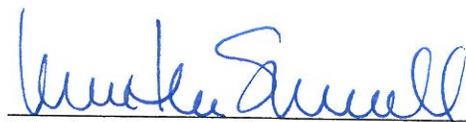
1. Contract for the Purchase of Johnson Drive Streetlights
2. Executive Session – Discussion of a Personnel Matter of Non-Elected Personnel
3. Appointment of Interim City Administrator

Witness my hand and the seal of said city this 26th day of September 2014.

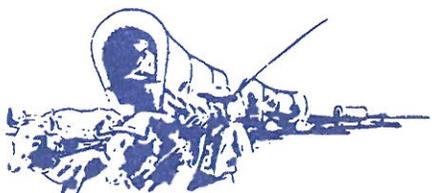
State of Kansas)

Johnson County ss.)

City of Mission)



Martha M. Sumrall, City Clerk



City of MISSION

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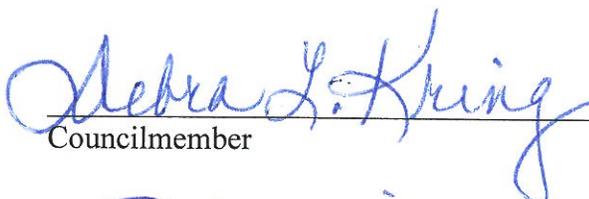
NOTICE FOR SPECIAL GOVERNING BODY MEETING

TO: Steve Schowengerdt, Mayor

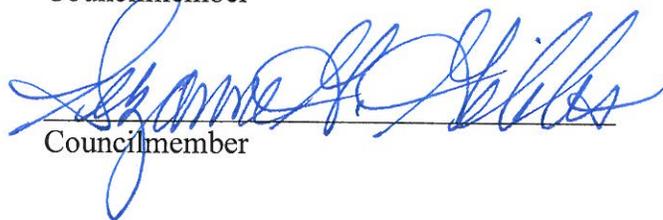
You are hereby requested, in accordance with K.S.A. 14-111, to call a special meeting of the Governing Body of Mission, Kansas, to be held at Mission City Hall, 6090 Woodson at 6:00 p.m., Wednesday, October 1, 2014, for the purpose of discussing the item listed below:

1. Contract for the Purchase of Johnson Drive Streetlights
2. Executive Session – Discussion of a Personnel Matter of Non-Elected Personnel
3. Appointment of Interim City Administrator

Dated this 26th day of September 2014.


Councilmember


Councilmember


Councilmember

City of Mission	Item Number:	1
ACTION ITEM SUMMARY	Date:	10-1-2014
Public Works	From:	John Belger

Action items require a vote to recommend the item to full City Council for further action.

RE: Johnson Drive Streetlight Purchase

RECOMMENDATION: Approve a contract with Capital Electric Line Builders for the installation of streetlights on Johnson Drive from Lamar to Nall in an amount not to exceed \$681,377.

DETAILS: In August 2012, the City Council passed Resolution No. 864 which established the Johnson Drive Design Concept for improvements between Nall Avenue to just west of Lamar Avenue. The resolution stated that pedestrian and other non-vehicular infrastructure, including decorative streetlights, was a focal point of all transportation improvement projects undertaken by the City of Mission.

Lumec streetlights, similar to those further east on Johnson Drive, were initially specified for this corridor. During the design phase, a budget of \$350,000 was established for the streetlights. The Lumec lights are manufactured in Canada, and did not meet the "Buy America" requirement for federal aid projects, so they were excluded from the original construction bid.

The low bid for the Lumec streetlights came in at \$796,936.50, well above our budgeted amount. In order to find a financially feasible solution, staff has worked extensively with Olsson to come up with an alternate streetlight. A light, manufactured by Hapco (an American supplier) has been evaluated and is recommended for installation. The proposed Hapco streetlights meet the "Buy America" requirements and are eligible for CARS funding (50/50 match). This brings the streetlight portion of the project within the existing budget of \$350,000.

At the August 20th City Council meeting, authorization was given to Overland Park (as project administrator) to change order the purchase and installation of the Hapco decorative streetlights into the Johnson Drive Project. When the request was sent to KDOT to add the streetlights as a participating item, they asked that it remain as a separate contract. In order to accommodate this request, contract documents and plans have been prepared in order to enter into an agreement directly with the Contractor.

The contract documents have been reviewed by the City's legal counsel.

Related Statute/City Ordinance:	Resolution No. 864
Line Item Code/Description:	25-90-805-60
Available Budget:	\$350,000 (City Funds) + remaining CARS funds



Public Works Department

Contract Documents

Johnson Drive Street Light Installation

GENERAL CONDITIONS

- GC-1. **SCOPE:** The scope of work shall be the installation of Decorative Streetlights on Johnson Drive from Lamar Avenue to Nall Avenue and identified in the Contract Documents and Plan Sheets.
- GC-2. **DEFINITIONS:** Whenever any word or expression, as defined under this Paragraph GC-2. "Definitions," or pronoun used in its stead, occurs in these Contract Documents; it shall have and is mutually understood to have the meaning herein given.
- A. **"Contract" or "Contract Documents"** shall include all of the documents enumerated herein, including General Conditions, the Instruction to Bidders, Technical Specifications, Bid Proposal, Contract Agreement and Addendums.
- B. **"City" or words "Party of the First Part"** shall mean the City of Mission.
- C. **"Contractor" or the words "Party of the Second Part"** shall mean the party entering into Contract for the performance of the work covered by this Contract and his or her duly authorized agents or legal representative.
- D. **"Director"** shall mean the Director of Public Works who is employed by the City for this work or their duly authorized agents, such agents acting severally within the scope of the particular duties entrusted to them.
- E. **"Date of Signing the Contract"** or the words equivalent thereto, shall mean the date upon which the Contract, executed by the Contractor, is signed by the City.
- F. **"The Work"** shall mean the work to be done and the equipment, supplies, and materials to be furnished under this Contract, unless some other meaning is indicated by the context.
- G. Whenever in these Contract Documents the words **"as ordered", "as directed", "as required", "as permitted", "as allowed"**, or words or phrases of like import are used, it shall be understood that the order, direction, requirement, permission, or allowance of the City and Director is intended.
- H. Similarly the words **"approved", "reasonable", "suitable", "acceptable", "properly", "satisfactory"**, or words of like effect and import, unless otherwise particularly specified herein, shall mean approved, reasonable, suitable, acceptable, proper, or satisfactory in the judgment of the City and Director.
- I. Whenever any statement is made in the Contract Documents containing the expression **"it is understood and agreed"**, or an expression of like import, such expression means the mutual understanding and agreement of the parties executing the Contract, agreement of which these general conditions are a part.

J. *Notice to Proceed* - A written notice issued by the City to the Contractor authorizing him/her to proceed with the Work and establishing the date of commencement of the Contract.

K. "Titles" and "subheadings," as used in the Contract Documents, are understood to be for convenience of reference only, and shall not be taken or considered as being a part thereof, or as having any bearing on the interpretation thereof.

- GC-3. CONTRACT DOCUMENTS:** It is expressly understood and agreed that the bound volume of Contract Documents include this Statement of General Conditions, the Contract Agreement, the Bid Proposal, and the Plan Sheets and Specifications.
- GC-4. VERBAL STATEMENTS NOT BINDING:** It is understood and agreed that the written terms and provisions of this Contract shall supersede all prior verbal statements of any and every official and/or other representative of the City, and such statements shall not be effective or be construed as entering into, or forming a part of, or altering in any way whatsoever, the written agreement.
- GC-5. COPIES OF CONTRACT:** Three (3) copies of the proposal and Contract shall be prepared, each containing an exact copy of the Contractor's proposal as submitted and the Contracts signed by both parties thereto. These executed counterparts of the Contract Documents are to be filed with the City, Contractor, and Director.
- GC-6. SILENCE OF SPECIFICATIONS:** The apparent silence of Contract Documents as to any detail, or the apparent omission from them of a detailed description concerning any point, shall be regarded as meaning that only the best general practice is to be used. All interpretations of these specifications shall be made on the basis above stated.
- GC-7. LEGAL ADDRESS OF CONTRACTOR:** The Contractor address given is founded, and the Contractor's Office in the vicinity of the work, are hereby designated as the places to which all notices, letters, and other communications to the Contractor may be mailed or delivered. The delivering at either of the above named addresses, or depositing in any mailbox regularly maintained by the Post Office, of any notice, letter, or other communication so addressed to the Contractor, shall be deemed sufficient service thereof upon the Contractor, and the date of said service shall be the date of such delivery of mailing. Such addresses may be changed at any time by an instrument in writing, executed by the Contractor and presented and delivered to the Director and to the City. Nothing herein contained shall be deemed to preclude or render inoperative the service of any notice, letter, or communication upon the Contractor personally.
- GC-8. RESPONSIBILITY OF CONTRACTOR:** The Contractor shall furnish all transportation, tools, equipment, machinery, and all suitable appliances, requisite for the execution of this Contract and shall be solely answerable for the same and for the safe, proper, and lawful construction, maintenance, and use thereof. Contractor shall be solely answerable for all damage to the City or the property of the City, to other contractors or other employees of the City, to the neighboring premises, or to any private or personal property, due to improper, illegal, or negligent conduct of itself or its subcontractors,

employees, or agents in and about said work, or in the execution of the work covered by this Contract, or any extra work undertaken as herein provided.

GC-9. INDEPENDENT CONTRACTOR: The right of general administration of the City shall not make the Contractor an agent of the City, and the liability of the Contractor for all damages to persons, firms, and corporations, arising from the Contractor's execution of the work, shall not be lessened because of such general administration, but as to all such persons, firms, and corporations, and the damages, if any, to them or their property, the Contractor herein is an independent contractor in respect to the work. The Contractor shall have the sole obligation to employ, direct, control, supervise, manage, discharge, and compensate all of its employees, and the City shall have no control of or supervision over the employees of the Contractor or any subcontractors except to the limited extent provided for in this Contract.

GC-10. RELATIONS WITH OTHER CONTRACTORS: The Contractor shall cooperate with all other contractors who may be performing work in behalf of the City, and workers who may be employed by the City, on any work in the vicinity of the work to be done under this Contract, and the Contractor shall so conduct its operations as to interfere to the least possible extent with the work of such contractors or workers. Contractor shall be responsible for any injury or damage that may be sustained by other contractors or employees of the City, because of any fault or negligence on its part, and shall, at Contractor's own expense, repair, or pay for such injury or damage. Any difference or conflict, which may arise between the Contractor and other contractors, or between the Contractor and the workers of the City, in regard to their work, shall be adjusted and determined by the Director. If the work of the Contractor is delayed because of any acts or omissions of any other contractor or contractors, the Contractor shall have no claim against the City on that account other than for an extension of time.

When two (2) or more contracts are being executed at one time in such manner that work on one (1) contract may interfere with that on another, the Director shall decide which contractor shall cease work and which shall continue, or whether the work on both contracts shall progress at the same time, and in what manner.

When the territory of one (1) contract is the necessary or convenient means of access for the transportation or movement of workers, materials, or appliances required for the execution of another contract, such privileges of access or any other responsible privilege may be granted by the Director to the Contractor so desiring, to the extent, which may be reasonably necessary.

GC-11. DEFENSE OF SUITS: In case any action at law or suit in equity is brought against the City, the Director, or any of their officers, agents, or funding agencies alleging the failure, omission, or neglect of the Contractor to do and perform any of the covenants, acts, matters, or things by this Contract undertaken to be done or performed, or for any injury or damage caused by the negligence or alleged negligence of the Contractor or its subcontractors or employees or agents, the Contractor shall indemnify, defend, and save harmless the City, the Director, and their officers, agents, or funding agencies, of and from all losses, costs, damages, expenses, judgments, or decrees whatever arising out of such actions or suits as may be brought as aforesaid.

GC-12. AUTHORITY AND DUTY OF THE DIRECTOR: It is mutually agreed by and between the parties to this Contract that the Director or the Director's designee shall act as the representative of the City and shall observe, as required the work included herein. In order to prevent delays and disputes and to discourage litigation, it is further agreed by and between the parties to this Contract that the Director or the Director's designee shall, in good faith and to the best of his or her ability, determine the amount and quantities of the kinds of work which are to be paid for under this Contract; decide and determine, where applicable, questions in relation to said work and the construction thereof; and decide questions which may arise relative to the execution of this Contract on the part of said Contractor. It is mutually agreed by both parties that decisions and findings of the Director or the Director's designee shall be the conditions precedent to the right of the parties hereto, to any action on the Contract, and to any rights of the Contractor to receive any money under this Contract provided, however, that should the Director or the Director's designee render any decision or give any direction which, in the opinion of either party hereto, is not in accordance with the meaning and intent of this Contract, either party may file with the Director, within thirty (30) days his or her written objection to the decision or direction so rendered and, by such action, may reserve the right to submit the question so raised to a court of competent jurisdiction.

The Director or the Director's designee will not be responsible for Contractor's means, methods, techniques, or the safety precautions and programs incident thereto. The Director or the Director's designee will not be responsible for the acts or omissions of Contractor or any subcontractor or any of Contractor's agents or employees, or any other person at the site or otherwise performing any of the work.

The Director or the Director's designee has the complete authority to "call off" work to be performed by the contractor despite the occurrence of a snow event that would otherwise have triggered work as specified in this contract to be performed.

GC-13. NO WAIVER OF RIGHTS: Neither the observation by the City or any of the City's officials, employees, or agents, nor any order by the City for payment of money, nor any payment for, or acceptance, of the whole or any part of the work by the City or Director, nor any extension of time, nor any possession taken by the City or its employees, shall operate as a waiver of any provision of this Contract, or of any power herein reserved to the City, or any right to damages herein provided, nor shall any waiver of any breach in this Contract be held to be a waiver of any other or subsequent breach.

GC-14. PROTECTION OF PUBLIC AND PRIVATE PROPERTY: The Contractor shall assume full responsibility for the protection of all public and private property, structures, sewers, and utilities, both above and below ground, along, beneath, above, across or near the site or sites of the work being performed under this Contract, or which are in any manner affected by the prosecution of the work or the transportation of men or materials in connection therewith. Barriers shall be maintained and placed at all times necessary to provide for the safety of all persons and prevent any accident, and the Contractor will be held responsible for all accidents to persons or property through any negligence of Contractor or its employees, subcontractors or agents.

The Contractor shall indemnify, defend, and save harmless the City, its funding agencies and the Director against all damages or alleged damages to such property, structures, and utilities, together with all claims for damages for personal injury, including accidental death, arising out of his operations in connection with the Contract. All property so damaged shall be repaired or replaced to a condition equal to its condition immediately prior to the time of damage, and to the satisfaction of the City.

The Contractor shall give reasonable notice to the owner or owners of public or private property and utilities when such property is liable to injury or damage through the performance of the work, and shall make all necessary arrangements with such owner or owners relative to the removal and replacement or protection of such property or utilities.

All permits and licenses required in the prosecution of any and all parts of the work shall be obtained and paid for by the Contractor unless specified otherwise.

GC-15. INSURANCE: General: Contractor shall provide certificates of insurance and renewals thereof on standard ACORD™ forms. This inclusion shall not make the City a partner or joint venture with the Contractor in its operations hereunder. The City shall be notified by receipt of written notice from the insurer at least thirty (30) days prior to material modification or cancellation of any policy listed in the certificate. Further, the City will be immediately notified of any reduction or possible reduction in aggregate limits of any such policy where such reduction, when added to any previous reductions, would exceed ten percent (10%) of the aggregate.

In the event of an occurrence, it is further agreed that any insurance maintained by the City of Mission, shall apply in excess of not contribute with insurance provided by policies named in this Contract.

The certificate holder on the Certificate of Insurance shall be as follows:

City of Mission
6090 Woodson
Mission, KS 66202

INDUSTRY RATINGS –

The City will only accept coverage from an insurance carrier who offers proof that it:

1. Is licensed to do business in the State of Kansas;
2. Carries a Best's policyholder rating of "A" or better; and
3. Carries at least a Class X financial rating.

OR

Is a company mutually agreed upon by the City and Contractor.

A. Commercial General Liability.

Limits –

Each Occurrence:	\$ 1,000,000
Personal & Advertising Injury:	\$ 1,000,000
Products/Completed Operations Aggregate:	\$ 2,000,000
General Aggregate:	\$ 2,000,000

Policy must include the following conditions:

Contractor Liability
Independent contractors
X.C.U.

B. Automobile Liability.

Policy shall protect the consultant against claims for bodily injury and/or property damage arising out of the ownership or use of any owned, hired and/or non-owned vehicle and must include protection for either:

1. Any Auto
-or-
2. All Owned Autos; Hired Autos; and Non-Owned Autos

Limits of auto liability insurance shall be the same as required in the Commercial General Liability section.

C. Worker's Compensation. This insurance shall protect the Contractor against all claims under applicable state worker's compensation laws. The Contractor shall also be protected against claims for injury, disease, or death of employees which, for any reason, may not fall within the provisions of a worker's compensation law. The policy limits shall not be less than the following:

Workers' Compensation:	Statutory
Employer's Liability:	
Bodily Injury by Accident:	\$100,000 Each Accident
Bodily Injury by Disease:	\$ 500,000 Policy Limit
Bodily Injury by Disease:	\$100,000 Each Employee

GC-16. PROVISION FOR EMERGENCIES: In emergencies affecting the safety of persons or the Work or property at the site or adjacent thereto, Contractor, without special instruction or authorization from the Director or City, is obligated to act, at its discretion, to prevent threatened damage, injury or loss. Contractor shall give Director prompt written notice of any significant changes in the Work or deviations from the Contract Documents caused thereby.

GC-17. SUBLETTING OF CONTRACT: The Contractor shall not award subcontracts for the completion of work so documented in this contract.

- GC-18. RIGHT OF CITY TO TERMINATE CONTRACT:** If the work to be done under this Contract shall be abandoned by the Contractor; or if the Contractor should be adjudged as bankrupt, or if a general assignment of assets be made for the benefit of Contractor's creditors, or if a receiver should be appointed for the Contractor or any of its property; or if at any time the Director shall certify in writing to the City that the performance of the work under this Contract is being unnecessarily delayed, or that the Contractor is violating any of the conditions or covenants of this Contract or the Specifications therefore, or that Contractor is executing the same in bad faith or otherwise not in accordance with the terms of said Contract; or if the work be not substantially completed within the frequency as requested or within the time to which such completion was extended; then the City may serve written notice upon the Contractor of said intention to terminate this Contract and, unless within five (5) days after the serving of such notice upon the Contractor, a satisfactory arrangement be made for the continuance thereof, this Contract shall cease and terminate. Whether or not a satisfactory arrangement has been proposed by Contractor shall be determined by the City and made at the sole discretion of the City.
- GC-19. SUSPENSION OF WORK ON NOTICE:** The Contractor shall delay or suspend the progress of the work or any part thereof, whenever Contractor shall be so required by written order of the City or Director, and for such periods of time as directed; provided, that in the event of such delay or suspension, the time for completion of work is suspended or delayed; but such order of the City or Director shall not otherwise modify or invalidate in any way, any of the provisions of this Contract. In the event that the work shall be stopped by order of the City or Director, any expense which, in the opinion and judgment of the Director, is caused thereby shall be paid by the City to the Contractor.
- GC-20. LAWS AND ORDINANCES:** The Contractor shall keep fully informed of all existing and current regulations of the City, and County, State and Federal Laws which in any way limit or control the actions or operation of those engaged upon the work, or affecting the materials supplied to or by them. Contractor shall at all times observe and comply with all ordinances, laws, and regulations, and shall protect and indemnify the City and the City's officers and agents against any claims or liability arising from or based on any violation of the same.
- GC-21. VANDALISM:** All loss or damage arising out of vandalism to equipment shall be the responsibility of Contractor and assumed through insurance requirements for this Contract.
- GC-22. COMPLIANCE WITH O.S.H.A. REGULATIONS:** The Contractor shall comply with all regulations of the Occupational Safety and Health Administration (OSHA) and hold the City and its representatives harmless from all actions resulting from the Contractor's failure to comply with said regulations, orders and citations.
- GC-23. SANITARY REGULATIONS:** In general, the operations of the Contractor shall be in full conformity with all of the rules and regulations of boards and bodies having jurisdiction with respect to sanitation. The Contractor shall supply safe and sufficient drinking water to all employees. The Contractor shall obey and enforce all sanitary regulations and orders, and shall take precautions against infectious diseases and the spread of same.

GC-24. CHARACTER OF WORKERS: The Contractor shall employ only workers who are competent to perform the work assigned to them, and, in the case of skilled labor, who are adequately trained and experienced in their respective trades and who do satisfactory work. In all cases, local labor shall be given preference when available.

Whenever the Director or the Director's designee shall notify the Contractor that any worker on the project is, in his or her opinion, incompetent, unfaithful, or disorderly, or who uses threatening or abusive language to any person representing the City when on the project or a member of the general public, such worker shall be immediately discharged from the project and shall not be re-employed thereon except with the consent of the Director or the Director's designee.

All persons employed by the Contractor who are working within the City of Mission are required to wear appropriate attire during working hours. Due to safety concerns, boots, trousers and shirts shall be worn at all times. Any employee not wearing the above articles of clothing shall be immediately removed from the job site by the Contractor.

GC-25. PERMITS: The Contractor shall secure all permits including business occupation licenses as the city of their offices or base requires. All cost in connection therewith shall be borne by the Contractor.

GC-26. CITY'S RIGHT TO DO WORK: Without otherwise limiting City's right under the Contract Documents, if Contractor should neglect to prosecute the work properly or fail to perform any provision of the Contract Documents, the City, after three (3) days' written notice to Contractor may, without prejudice to any other remedy it may have, make good such deficiencies and may deduct the cost thereof from the payment then or thereafter due Contractor.

GC-27. PAYMENTS: Payments shall be made to the Contractor monthly based on the work actually completed and approved by the Director. At the end of every month, the Contractor shall submit an invoice to the City accompanied with the appropriate Work Completion Log (available at the end of this document).

Invoices will not be paid without accompanying documentation.

GC-28. PAYMENTS WITHHELD: The City may withhold or, on account of subsequently discovered evidence, nullify the whole or a part of any application for payment to the extent necessary to protect the City from loss on account of:

1. Incomplete work or defective work not remedied;
2. Damage to City or private property; or
3. A breach of this Contract.

GC-29. PAYMENTS TO THE CONTRACTOR : Payment of amounts due Contractor shall be made within thirty (30) days after the City receives a timely, properly completed, undisputed request for payment according to terms of the Contract, unless extenuating circumstances exist which would preclude approval of payment within thirty (30) days. If

such extenuating circumstances exist, then payment shall be made within forty-five (45) days after the City receives such payment request. The Director shall review, approve and forward undisputed requests for payment to the City within seven (7) business days of receipt from the Contractor.

GC-30. BONDS

Performance Bond. The successful bidder shall furnish a performance bond in the amount of one hundred percent (100%) of the awarded contract within (5) days after execution of the contract. The performance bond shall be for a period of two (2) years guaranteeing the faithful performance of the contract, and otherwise conditioned as required by law. Such bond shall be executed by a surety company authorized to do business in the State of Kansas and requires the appointment of a Kansas Resident Agent.

Statutory Bond. The Successful Bidder shall furnish the supplied Statutory Bond in an amount equal to one hundred percent (100%) of the awarded contract within (5) days after execution of the contract. Such Bond shall be executed by a surety company authorized to do business in the State of Kansas and requires the appointment of a Kansas Resident Agent. Immediately following execution of the agreement, said Bond shall be filed by the Contractor with the City Clerk of the City of Mission, Kansas. The Contractor shall be responsible for the payment of any fees associated with the filing of said Bond.

Maintenance Bond. The Successful Bidder shall furnish the supplied Maintenance Bond in an amount one hundred percent (100%) of the awarded contract within (5) days after execution of the contract. The maintenance bond shall be for a period of two (2) years, from and after the completion of said improvement and acceptance thereof. Such bond shall be executed by a surety company authorized to do business in the State of Kansas and requires the appointment of a Kansas Resident Agent. Such Bond shall be furnished by the Contractor immediately following the completion of the Project and acceptance thereof by the City.

All bonds shall be executed on the forms included within the Bid Document and must be accompanied by a "Power of Attorney" and a letter from the surety company's attorney-in-fact granting the City the authority to date the bonds and power of attorney the same date as the date of the Agreement.

GC-31 TAXES AND FEE EXEMPTIONS

The City is exempt from taxes levied under the Kansas Retailers Sales Tax Act and the Kansas Compensating Tax Act and other local taxes. Tax Exemption Certificates will be provided by the City for those items which fall within the scope of the Contract and which may properly be exempt from such taxes.

**** END OF SECTION ****

CONTRACT AGREEMENT

THIS AGREEMENT, made and entered into this ___ day of _____, 20 __, by and between the City of Mission, Kansas, hereinafter referred to as the "CITY" and Capital Electric Line Builders, hereinafter referred to as the "CONTRACTOR".

WITNESSETH: WHEREAS, the City has caused to be prepared the Contract Documents for the work herein described, and has approved and adopted these Contract Documents and has received a proposal setting unit prices for furnishing materials, labor and equipment for, and in connection with, all work as indicated in the Contract Documents, including the work for Streetlight Installation - Johnson Drive from Lamar to Nall , all as set forth in the bid proposal, Contract Documents all in accordance with the terms of this Contract;

NOW, THEREFORE, in consideration of the above and foregoing recitals, the mutual promises, covenants and agreements hereinafter contained, and for other good and valuable consideration, the parties to these presents do hereby agree as follows:

ARTICLE 1: Work

1.1 The CONTRACTOR shall, in a good and workmanlike manner, and at his or her cost and expense, furnish all labor, tools, equipment, materials, and incidentals necessary to perform and complete the Work herein designated and required by the Contract Documents.

1.2 All work must be performed in accordance with the attached General Conditions, Special Provisions and Plan Sheets.

ARTICLE 2: Contract Time

2.1 Completion. The CONTRACTOR shall complete the Work in a timely manner as allowed by material lead time. Specific milestone dates will be stated in the Notice to Proceed.

2.3 Liquidated Damages. CITY and CONTRACTOR recognize that time is of the essence of this Agreement and that if the Work is not completed within the agreed upon time as specified, plus any extensions thereof allowed in accordance with the Contract Documents, CITY and CONTRACTOR agree that as liquidated damages for delay, but not as a penalty, CONTRACTOR shall pay CITY Five Hundred Dollars (\$ 500.00) for each and every calendar day that expires following the time specified. CITY shall have the right to deduct the liquidated damages from any money in its hands, otherwise due, or to become due, to CONTRACTOR, or to sue for and recover compensation for damages for non-performance of this Contract within the time stipulated.

ARTICLE 3: Contract Price

3.1 CITY shall pay CONTRACTOR for the completion of Work in accordance with the Contract Documents and CONTRACTOR shall accept in full compensation therefore, the price set forth in the Authorization at the unit costs set out in CONTRACTOR's Bid in an amount not to exceed \$681,377.00.

ARTICLE 4: Payment Procedures

4.1 CITY shall pay the CONTRACTOR in the manner specified in the Contract Documents. Applications for Payment shall be submitted by the CONTRACTOR to the Director of Public Works or his agent and processed in accordance with the Contract Documents.

4.2 The Director of Public Works or his agent shall review, approve and forward undisputed requests for payment to the CITY within seven (7) business days of receipt from the CONTRACTOR.

4.3 The payment of amounts due a CONTRACTOR from the CITY, except retainage, shall be made within 30 days after the CITY receives a timely, properly completed, undisputed request for payment from the Director of Public Works or his agent, unless extenuating circumstances exist which would preclude approval of payment within 30 days. If such extenuating circumstances exist, then payment shall be made within 45 days after the CITY receives such payment request.

4.4 If the CITY fails to pay a CONTRACTOR within the time period set forth in subsection 4.3 the CITY shall pay interest computed at the rate of 10% per annum on the undisputed amount to the CONTRACTOR beginning on the first business day after the payment was due.

4.5 Progress Payments. CITY shall make progress payments on account of the Contract Price on the basis of CONTRACTOR's Applications for Payment. Upon CITY's approval of CONTRACTOR's Application for Payment, CITY will pay or cause to be paid an amount equal to the estimated value of the Work performed less a retained amount in accordance with the following schedule and subject to the applicable provisions of the Contract Documents.

4.5.1 Prior to Substantial Completion, progress payments will be made in an amount equal to the percentage indicated below:

1. Ninety percent (90%) with ten percent (10%) retained until the Work is substantially complete.
2. When the Work is substantially complete the retained amount may be reduced to five percent (5%) of the value of the Work which is substantially complete, provided that the CONTRACTOR is making satisfactory progress in cleanup and restoration and there is no specific cause for greater withholding.

4.5.2 CITY must release the retainage on any undisputed requested payment due within 30 days after substantial completion of the project; however, if any subcontractor is still performing work on the project under its subcontract, CITY may withhold that portion of the retainage attributable to such

subcontract until 30 days after such work is completed.

4.5.3 If CITY fails to pay retainage, if any, pursuant to the terms of a contract for public construction or as required by Kansas Fairness In Public Construction Contract Act, the CITY shall pay interest to the CONTRACTOR, beginning on the first business day after the payment was due, at a rate of 10% per annum.

4.5.4 Nothing in this section shall prevent early release of retainage if it is determined by the CITY and CONTRACTOR that a Subcontractor has completed performance satisfactorily and that the Subcontractor can be released prior to substantial completion of the entire project without risk or additional cost to the CITY or CONTRACTOR. Once so determined, the CONTRACTOR shall require such adjustment in retainage, if any, from the CITY as necessary to enable the CONTRACTOR to pay the Subcontractor in full, and the CITY shall, as part of the next contractual payment cycle, release the Subcontractor's retainage to the CONTRACTOR, who shall, as part of the next contractual payment cycle, release such retainage as is due to the Subcontractor.

4.6 Final Payment. Upon completion and acceptance of the Work, CITY shall pay the remainder of the Contract Price in accordance with the applicable provisions of the Contract Documents.

ARTICLE 5: Contract Documents

The Contract Documents, which comprise the entire agreement between CITY and CONTRACTOR concerning the Work consist of the following which are hereby incorporated herein:

- General Conditions
- Performance and other bonds as required
- Contract Documents
- Contractor's Bid
- Plan Sheets and Special Provisions

HEREOF, CONTRACTOR and CITY have caused this Agreement to be executed by their duly authorized representatives in seven (7) counterparts in the prescribed manner and form on the day and year first above written.

CONTRACTOR

CITY
City of Mission, KANSAS

By: _____

By: _____

Printed name and title

Steve Schowengerdt, Mayor

[SEAL]

[SEAL]

ATTEST:

By: _____

Printed name and title

ATTEST:

By: _____

Martha Sumrall, City Clerk

APPROVED AS TO FORM:

By: _____

David Martin, City Attorney

BOND NO. _____

PERFORMANCE BOND

We, _____ of _____ hereinafter referred to as the "CONTRACTOR", and _____, with general offices in the City of _____, a corporation duly organized and existing under the laws of the State of _____ and authorized to do business in the State of Kansas, hereinafter referred to as the Surety, as Surety, are held and firmly bound unto the City of Mission, Kansas, hereinafter referred to as the Obligee, in the penal sum of _____

Dollars

(\$ _____ 100% of Contract Price), lawful money of the United States of America, for the payment of which sum will and truly to be made, we bind ourselves and our heirs, executors, administrators, successors, and assigns jointly and severally, firmly by these presents.

THE CONDITION OF THE FOREGOING OBLIGATION IS SUCH THAT, Whereas the Contractor has, on the _____ day of _____, 20____, entered into a written agreement with the Obligee for furnishing all materials, equipment, tools, labor and incidentals in connection with and for the public improvements as designated, defined and described in the said agreement and the Conditions thereof, and in accordance with the specifications and other Contract Documents for Bid Request No. _____ on file with City of Mission, 6090 Woodson, Mission, KS 66202.

NOW, THEREFORE, if the Contractor shall and will, in all particulars, will, duly and faithfully observe, perform and abide by each and every covenant, condition and part of the said agreement, and the Conditions, Specifications and other Contract Documents thereto attached or by reference made a part thereof, according to the true intent and meaning in each case, then this obligation shall be and become null and void; otherwise, it shall remain in full force and effect. Whenever the Contractor shall be, and shall be declared by the Obligee to be in default under the agreement, the Surety shall remedy the default by promptly (a) completing the agreement in accordance with its terms and conditions, or (b) obtaining a bid or bids for the submission to the Obligee for completing the agreement in accordance with its terms and conditions, and upon determination by the Obligee of the lowest and best bids, arrange for an agreement between such bidder and the Obligee and make available as work progresses (even though there should be a default or a succession of defaults under the agreement or agreements of completion arranged under this paragraph) sufficient funds to pay the cost of completion less the balance of the Contract Price, but not exceeding, including other costs and damages for which the Surety may be liable hereunder, the amount set forth in the first paragraph hereof as the same may be increased by change order(s). The term "balance of the Contract Price," as used in this paragraph, shall mean the total amount payable by the Obligee to the Contractor under the

agreement and any amendments thereto, less the amount paid by the Obligee to the Contractor.

PROVIDED, FURTHER, that the Surety hereby stipulates and agrees that no change, extension of time, alteration or addition to the terms of the agreement, or the work to be performed thereunder, or the specifications accompanying the same, shall in any way affect its obligations on this bond. The Surety does hereby waive notice of any change, extension of time, alteration or addition to the terms of the agreement, or to the work, or to the Specifications. Further, the Surety stipulates and agrees that the penal sum of this bond shall be automatically increased or decreased by any change orders to the agreement as approved by the Obligee.

IN TESTIMONY WHEREOF, the Principal and Surety have caused these presents to be duly signed and sealed on this _____ day of _____, 20_____.

Principal

By _____ (SEAL)

Official Title

Surety Company

By _____
Attorney-in-Fact

By _____
Kansas Agent

(Accompany this bond with Attorney-in-Fact's authority from the Surety Company certified to include the date of the bond)

BOND NO. _____

MAINTENANCE BOND

We, _____ of _____ hereinafter referred to as the "CONTRACTOR", and _____, with general offices in the City of _____, a corporation duly organized and existing under the laws of the State of _____ and authorized to do business in the State of Kansas, hereinafter referred to as the Surety, as Surety, are held and firmly bound unto the City of Mission, Kansas, hereinafter called the Obligee, in the penal sum of _____ Dollars (\$_____ 100% of Contract Price), lawful money of the United States of America, for the payment of which sum will and truly to be made, we bind ourselves and our heirs, executors, administrators, successors, and assigns jointly and severally, firmly by these presents.

THE CONDITION OF THIS FOREGOING OBLIGATION IS SUCH THAT:

WHEREAS, on the _____ day of _____, 20____, the Contractor entered into a written agreement for Bid Request No. _____ with the Obligee for the construction, reconstruction or repair of certain public improvement(s) as designated and described in the said agreement; and

WHEREAS, it was a condition of the contract award by the obligee that these presents be executed by the Contractor and Surety aforesaid; and

WHEREAS, the Contractor agrees to guarantee the work hereinabove described, including all materials and workmanship, for the period of two (2) years beginning on the date the Obligee so accepts said work, said date being the formal acceptance date of the work.

NOW, THEREFORE, if the Contractor shall and will, in all particulars, will, duly, and faithfully observe, perform and abide by each and every covenant, condition and part of said written agreement and other Contract Documents and shall protect the Obligee against all damages, losses and expenses which may occur to Obligee, by reason of defective materials used, or by reason of defective workmanship done, for, and the construction, reconstruction or repair of said public improvements(s); and shall guarantee the above work for a period of two (2) years from date formal acceptance, then this obligation shall become null and void; otherwise, it shall remain in full force and effect. Further, the Surety stipulates and agrees that the penal sum of this bond shall be automatically increased or decreased by any change orders to the agreement as approved by the Obligee.

IN TESTIMONY WHEREOF, the Principal and Surety have caused these presents to be duly signed and sealed on this _____ day of _____, 20_____.

Principal

By _____ (SEAL)

Official Title

Surety Company

By _____
Attorney-in-Fact

By _____
Kansas Agent

(Accompany this bond with Attorney-in-Fact's authority from the Surety Company certified to include the date of the bond)

BOND NO. _____

**STATUTORY BOND
TO THE
STATE OF KANSAS**

We, _____ of _____ hereinafter referred to as the "CONTRACTOR", and _____, with general offices in the City of _____, a corporation duly organized and existing under the laws of the State of _____ and authorized to do business in the State of Kansas, hereinafter referred to as the Surety, as Surety, are held and firmly bound unto the STATE OF KANSAS in the penal sum of _____ Dollars (\$ _____ 100% of Contract Price), lawful money of the United States of America, for the payment of which sum will and truly to be made, we bind ourselves and our heirs, executors, administrators, successors, and assigns jointly and severally, firmly by these presents.

THE CONDITION OF THE FOREGOING OBLIGATION IS SUCH THAT, Whereas, the Contractor has on the _____ day of _____, 20____, entered into a written agreement with the City of Mission, Kansas, hereinafter called the City, for furnishing all tools, equipment, materials and supplies and performing all labor and incidentals thereto necessary in connection with the public improvements described in said agreement, all in accordance with the specifications and other Contract Documents titled "Johnson Drive Street Light Installation, City of Mission, KS".

NOW, THEREFORE, if the Contractor or the Subcontractor(s) of the Contractor shall pay all indebtedness incurred for labor furnished, materials, equipment or supplies, used or consumed in connection with or in or about the construction of or in making such public improvements, then this obligation shall become null and void; otherwise, it shall remain in full force and effect. If the Contractor or the Subcontractor(s) of the Contractor fails to duly pay all indebtedness incurred for labor furnished, materials, equipment or supplies, used or consumed in connection with or in or about the construction of or in making such public improvements, then the Surety shall pay the same in any amount not exceeding the amount of this obligation, together with any interest as provided by law.

The Surety hereby stipulates and agrees that no change, extension of time, alteration or addition to the terms and conditions of the said agreement for the work to be performed thereunder, or the specifications accompanying the same, shall in any way affect its obligation on this bond, and it does hereby waive notice of any such change, extension of time, alteration or addition to the terms and conditions of the said agreement or to the specifications. The Surety stipulates and agrees that the penal sum of this bond shall be automatically increased or decreased by any change order(s) to the said agreement as approved by the City. The Surety further agrees that any persons to whom there is due any sum for such public improvements as

hereinabove stated, or said person's assigns or successors, may bring action on this bond for the recovery of said indebtedness; provided, that no action shall be brought on this bond after six (6) months from the completion of said public improvements.

IN TESTIMONY WHEREOF, the Principal and Surety have caused these presents to be duly signed and sealed on this _____ day of _____, 20_____.

Principal
By _____(SEAL)

Official Title

Surety Company

By _____
Attorney-in-Fact

By _____
Kansas Agent

(Accompany this bond with Attorney-in-Fact's authority from the Surety Company certified to include the date of the bond)

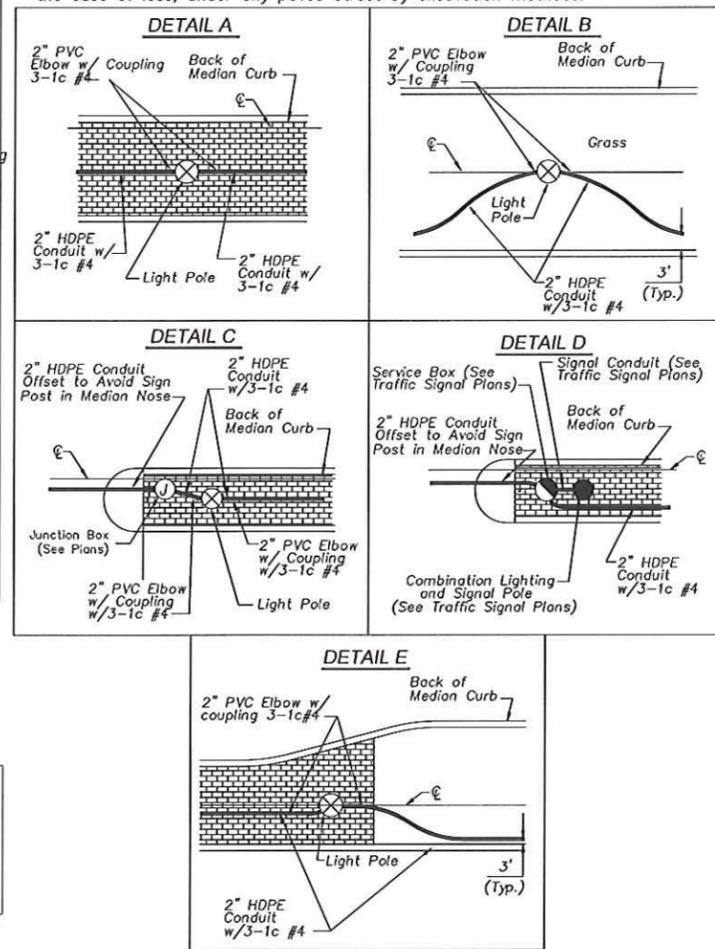
Filed with the City Clerk of Mission, Kansas, this _____ day of _____, 20__.

City Clerk

STREET LIGHTING GENERAL NOTES - DEVELOPER PROJECTS

- All work and material shall conform to the latest edition of the City of Mission street lighting specifications and standard details and shall be from The City of Overland Park pre-approved materials list.
- All traffic control in conjunction with the street lighting construction shall be in conformance with the Manual On Uniform Traffic Control Devices and the Overland Park Traffic Control Handbook for Street Maintenance and Construction Operations, latest revisions.
- The Contractor shall stake the locations for all poles, conduit, controllers and junction boxes to be installed. The stations and offsets provided are to the center of the street lighting equipment. The contractor shall provide elevations. If obstructions are encountered during installation, the contractor will re-stake those locations affected by the obstruction. The city street lighting inspector shall inspect the staking prior to any excavation/construction.
- The locations of existing underground utilities are shown in an approximate way only and have not been independently verified. The Contractor shall be responsible for contacting all utility companies for locations of all underground lines prior to excavation and be fully responsible for any and all damages, which might be occasioned by the Contractor's failure to exactly locate and preserve any and all underground utilities. See cover sheet for utility company contact information.
- All circuit cables in junction boxes and poles shall be identified with color-coded tape as follows:
North Cable: Tape Color Code Blue
West Cable: Tape Color Code Red
South Cable: Tape Color Code Purple
East Cable: Tape Color Code Yellow
Ground Cable: Tape Color Code Green
- The contractor shall be responsible for removing existing equipment as noted and delivering all salvageable equipment to the City of Mission Maintenance Facility. The contractor shall contact the City of Mission to coordinate delivery (at least 24-hour advance notice shall be provided). All returned equipment shall be disassembled per the instructions of the Traffic Services Division of the City of Mission Department of Public Works (See this Sheet). The contractor shall be responsible for any damage or loss of salvageable equipment.
- Rock and shale may be encountered and thus the bid items shall reflect the extra work necessary to accomplish the installation. No additional payments ("extras") will be made for excavation of rock or shale and suitable backfill materials.
The following conditions shall prevail:
Screw-in foundations have been assumed for all areas. In the event a screw-in base may not be installed, then the contractor may at his option install the screw-in base within a pre-drilled hole, or pour a concrete base. No change in payment shall be made for base substitutions. All conduit/cable trenches and pre-drilled holes within rock/shale shall be backfilled with suitable material and properly compacted in accordance with the specifications.
- Conduit shall be bored (by approved methods) in those existing areas outside of the street improvement limits.
- Continuous 2" schedule 40 HDPE conduit shall be installed between all street lighting appurtenances prior to paving within the limits of the street improvements. Conduit splices between appurtenances shall not be allowed unless fusion couplings or other fusion methods are used.
- The conduit placement shall be coordinated with the paving operation. Conduit installation and conduit connections shall be inspected and approved by the City street lighting inspector. The contractor shall pay any and all extra costs of installing conduits by alternate construction methods after pavement has been placed or for any damages to pavement that may occur during conduit installation. All trenches for conduit under proposed paved surfaces (drives, streets and sidewalks) shall be backfilled with flowable fill unless otherwise directed, to below the proposed pavement surface.
- All existing street light poles to be relocated shall be reinstalled from their present location to their new location according to the address stenciled on the pole. All existing street lighting equipment to be relocated shall become the responsibility of the contractor for safe storage. The contractor, at his own expense, shall replace any materials to be reused that have been damaged with approved materials in accordance with current standard details, specifications, policies and practices.
- The conduit and cable shall be installed under underdrain pipe crossings and under the underdrain blankets. Refer to the street plans for underdrain pipe and blanket locations and appropriate details. Where pole foundations are to be installed through an underdrain blanket, the blanket shall be pre-cut to prevent damage of the blanket. In the event the blanket is damaged, the fabric shall be replaced.
- Factory conduit bends (PVC 90° Elbows) shall be installed into junction boxes and/or light pole bases from HDPE conduit runs. Approved couplings shall be used to transition between HDPE and PVC conduits.
- All cable connections at junction boxes shall be watertight.
- All cable re-connections at existing light poles shall require new connector kits (i.e., multi-tap connectors and fused and non-fused connectors).
- The connections of the new system made at an existing junction box, light pole or control center for the continuation of the existing circuit shall be made in the presence of the street lighting inspector for approval.
- The contractor shall take all precautions necessary to minimize the downtime of the existing street lighting systems to be modified. Any existing KCP&L street lighting system shall be maintained during construction as long as possible until the new city-owned street lighting system is installed and operating.
- Damage to any existing street lighting equipment due to the construction shall be the responsibility of the contractor. The equipment shall be replaced or repaired (as directed by the City) with materials equal or better than the existing material.
- All existing street lighting equipment is to be used in place (U.I.P.) unless otherwise noted in the plans.

- The contractor shall notify the City of Mission, KS, Department of Planning of the exact construction schedule so that inspection of the street light installation can be made, including conduit installations.
- The contractor shall be responsible for any damage to existing underground sprinkler systems during construction. All affected pipes or fittings shall be restored to original condition and location with new materials similar to existing. All restoration work shall be acceptable to the engineer and property owner.
- Junction boxes shall be installed as indicated on the plans. Type I junction boxes shall be used in locations where only in-line splices are used to pass through the box. Type II junction boxes shall be used at tee type branch circuits or in locations where two or more circuits with in-line splices pass through the box.
- The contractor shall install 2" PVC conduit with a pull string from the control center to the KCP&L power source.
- All unpaved areas damaged during construction shall be restored to the original condition. Unless otherwise directed, grassy areas, which were originally sodded, shall be re-sodded.
- The contractor shall be required to apply black stick-on street address numerals and circuit numbers on the poles and controller cabinet as indicated in the plans. Letters and numerals should be 2 inches high.
- The street lighting contractor shall mark the locations of junction boxes at the end of platted streets with City supplied markers. This junction box shall remain in both the initial phase and the adjoining phase. Two inch schedule 40 HDPE conduit with a pull string shall be installed from the Type I junction box to the nearest light pole, junction box or control center through the existing conduit and connect the same cable to existing cable in the presence of the City Street Light Inspector for approval.
- The contractor shall be required to submit catalog cuts or shop drawings for all equipment to be installed on this project. All submittals shall conform to the Overland Park pre-approved materials list.
- The street light contractor shall be responsible for removal of all undesirable material (rock and debris) encountered during street light construction. The Owner or his/her representative will designate a location on the Owner's property for placing of all excess rock, debris, etc. Before proceeding with construction, the street light contractor shall verify that the right-of-way has been properly graded and in a mowable condition.
- The street lighting contractor shall be required to furnish evidence that their insurance meets the requirements of Chapter 13.01 of the City of Overland Park, Kansas, Municipal Code.
- Contractor shall use a polymer lubricating agent to facilitate conduit bores under paved streets. Failure to do so will result in a denial to retrieve bore head, in the case of loss, under any paved street by excavation methods.



MISCELLANEOUS CONDUIT DETAILS

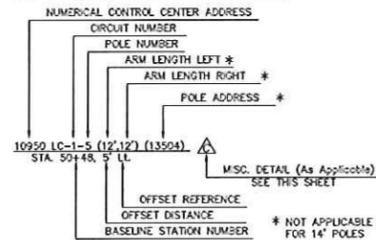
INSTRUCTIONS FOR DISASSEMBLY AND RETURN OF SALVAGED STREETLIGHTING EQUIPMENT

The following is a list of street lighting equipment which shall be salvaged and returned to the City of Mission, unless otherwise instructed by the inspector. The City maintains the first right of refusal of any of the equipment listed. The project inspector will make an on-site assessment to determine if the equipment should be salvaged or disposed. Any equipment that will not be salvaged shall become of the property of the contractor.

- All luminaires must be removed from streetlight arms or poles and be returned. Any wireless "Telemic" devices shall be removed from the luminaire and returned.
- All luminaire arms shall be removed from the streetlight poles and be returned with the pole. Pole caps shall remain attached to the pole.
- All cable located in the pole and arms must be disconnected from luminaires, removed from the streetlight pole and arm and discarded.
- All breakaway couplings or devices shall be removed from the streetlight pole and screw-in base and discarded.
- All screw in bases shall be cleaned of dirt and debris and returned with anchor studs or bolts threaded into the base plate.
- All streetlight control centers must be returned with all circuit breakers, relays and other internal equipment still installed. Any removable entry panels shall be returned with the control center.
- All streetlight equipment hardware (i.e. arm bolts, multi-tap connectors, fuse holders and other small accessories) shall be discarded.
- All junction box or service box lids shall be removed and returned. Boxes shall be discarded.
- Disassembly of any traffic signal equipment attached to streetlight equipment shall follow the guidelines as stated in the "Instructions for Disassembly and Removal of Salvaged Traffic Signal Equipment".

All streetlight equipment to be returned shall be returned in the same condition as it was prior to removal. Disassembly of equipment shall be done prior to returning the equipment to the City of Mission.

STREET LIGHT DESIGNATION



DESIGN PARAMETERS

- A. APPLICATIONS
JOHNSON DRIVE FROM LAMAR AVENUE TO NALL AVENUE
- B. LUMINAIRES:
135W LED (9000 LUMENS), TYPE 2 ROADWAY DISTRIBUTION
COBRA HEAD HOUSING W/2" SLIP FITTING - FLATGLASS LENS OR APPROVED EQUAL *

- 90W LED (8000 LUMENS), TYPE 2 ROADWAY DISTRIBUTION
HAPCO YORK SERIES
- 40W LED (4000 LUMENS), TYPE 2 ROADWAY DISTRIBUTION
HAPCO YORK SERIES

* APPROVED EQUAL SHALL BE DETERMINED BY THE CITY OF MISSION BASED ON COMPUTER CALCULATIONS (GIVEN THE DESIGN PARAMETERS NOTED IN PART C) PROVIDED BY THE MFR. REPRESENTATIVE OR MANUFACTURE. COMPUTER CALCULATIONS SHALL BE SUBMITTED TO THE CITY OF MISSION AT LEAST ONE (1) WEEK PRIOR TO THE BID OPENING FOR REVIEW AND APPROVAL.

- C. DESIGN
- DESIGN REQUIREMENTS (JOHNSON DRIVE & LAMAR AVENUE)
AREA CLASSIFICATION - INTERSECTION
ROAD CLASSIFICATION - COLLECTOR/COLLECTOR

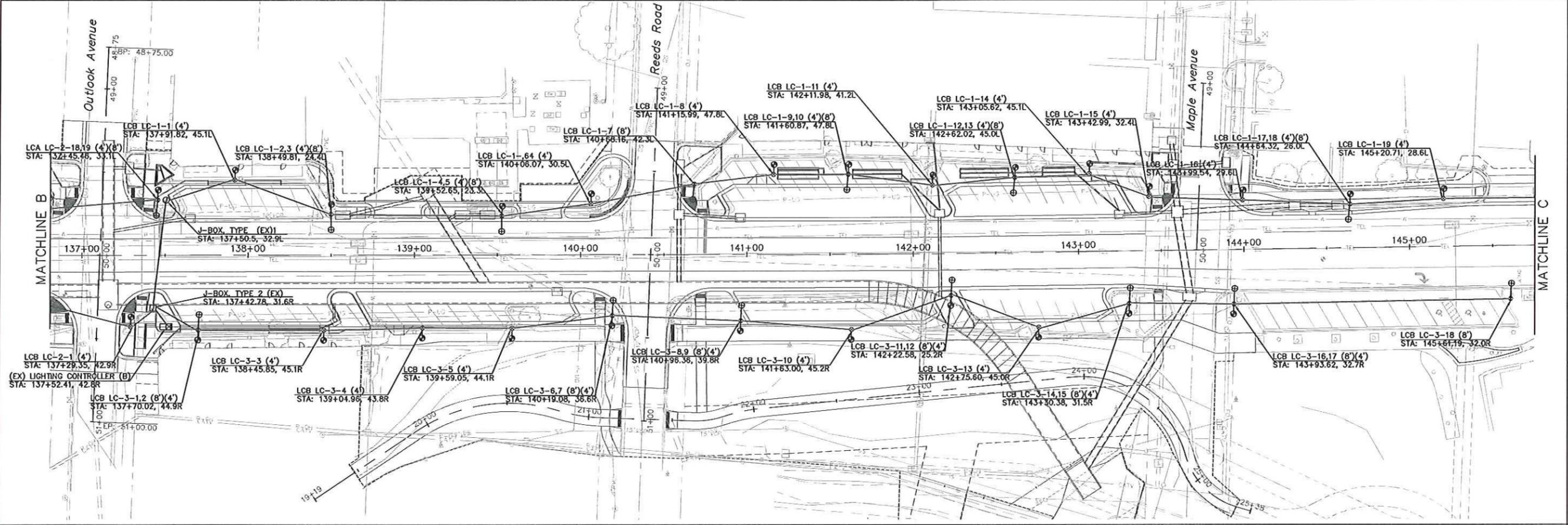
- DESIGN AVE. MAINTAINED ILLUMINANCE 2.4 Fc
DESIGN AVE. TO MIN. UNIFORMITY 4.0:1
- DESIGN AVE. MAINTAINED ILLUMINANCE 1.2 Fc (M.N.)
DESIGN AVE. TO MIN. UNIFORMITY 4.0:1
- DESIGN CALCULATION FACTORS (JOHNSON DRIVE & LAMAR AVENUE)
LIGHT LOSS FACTOR (LLF) - 0.81
MOUNTING HEIGHT - 30. FL.
 - DESIGN CALCULATION FACTORS (JOHNSON DRIVE)
LIGHT LOSS FACTOR (LLF) - 0.81
MOUNTING HEIGHT - 28. FL.

STREET LIGHT LEGEND

- EXISTING**
- 100W HPS POST-TOP LUMINAIRE W/ 14' POLE
 - 150W HPS POST-TOP LUMINAIRE W/ 14' POLE
 - 150W HPS COBRA-HEAD LUMINAIRE W/ 30' POLE
 - 150W HPS COBRA-HEAD LUMINAIRE W/ 40' POLE
 - 250W HPS COBRA-HEAD LUMINAIRE W/ 30' POLE
 - 250W HPS COBRA-HEAD LUMINAIRE W/ 40' POLE
 - 310W HPS COBRA-HEAD LUMINAIRE W/ 30' POLE
 - 310W HPS COBRA-HEAD LUMINAIRE W/ 40' POLE
 - 400W HPS COBRA-HEAD LUMINAIRE W/ 30' POLE
 - 400W HPS COBRA-HEAD LUMINAIRE W/ 40' POLE
 - KCP OWNED STREET LIGHT
 - TYPE I SERVICE BOX
 - TYPE I JUNCTION BOX
 - TYPE II JUNCTION BOX
 - TYPE I FIBER OPTIC SERVICE BOX
 - TYPE II FIBER OPTIC SERVICE BOX
 - PAD MOUNTED CONTROL CENTER (SHADED AREA INDICATES PHOTOCELL ORIENTATION)
 - 2 INCH PVC CONDUIT
 - 2 INCH SCHEDULE 40 HDPE CONDUIT
 - HDPE FIBER OPTIC CONDUIT W/LOCATING CABLE
- PROPOSED**
- 100W HPS POST-TOP LUMINAIRE W/ 14' POLE
 - 150W HPS POST-TOP LUMINAIRE W/ 14' POLE
 - 135W LED LUMINAIRE (COMBINATION POLE)
 - 28' POLE W/8' AND 4' ARM
 - 14' POLE W/4' ARM
 - TYPE I SERVICE BOX
 - TYPE I JUNCTION BOX
 - TYPE II JUNCTION BOX
 - TYPE I FIBER OPTIC SERVICE BOX
 - TYPE II FIBER OPTIC SERVICE BOX
 - PAD MOUNTED CONTROL CENTER (SHADED AREA INDICATES PHOTOCELL ORIENTATION) (NORTH OR EAST)
 - 2 INCH SCHEDULE 40 HDPE CONDUIT (GRAY)
 - 2 INCH PVC CONDUIT
 - HDPE FIBER OPTIC CONDUIT W/LOCATING CABLE (ORANGE)
 - CONSTRUCTION NOTE NUMBER

CITY OF MISSION DEPARTMENT OF PUBLIC WORKS			
GENERAL NOTES AND LEGEND			
DESIGNED:	BLW	LAST REVISED:	12/15/08
DETAILED:	TLL	SCALE:	SHEET
CHECKED:	BCS	1" = N.T.S. horz.	
APPROVED:	BCS	1" = N.T.S. vert.	2 of 9

DWG: F:\PROJECTS\1010-2745\150-johnson_dr_-_lamar_to_nail_design\trac\wind_plans_separate_street_lighting_plans (2014)\102745_STLT_Sheets.dwg
 DATE: May 12, 2014 2:20pm XREFS: 102745_PBASE 102745_XTOPO 102745_PSTORM 102745_PBASE 102745_LD_PBASE 102745_PTRS 102745_PSTLT 102745_22X36_BRDR 102745_22X36_BRDR



GENERAL NOTES:
 1. ALL NEW STREET LIGHT POLES SHALL BE INSTALLED ON EXISTING BASES
 2. NEW CABLING SHALL BE INSTALLED IN EXISTING CONDUITS.

SCALE
 30' 0 30' 60'

STREET LIGHT LEGEND

- 135" LED LUMINAIRE (COMBINATION POLE)
- ⊕ 28' POLE W/8' AND 4' ARMS
- ⊕ 28' POLE W/8' ARM
- ⊕ 14' POLE W/4' ARM
- ILLUMINATED STREET NAME SIGN
- TYPE 1 SERVICE BOX
- TYPE 1 JUNCTION BOX
- TYPE 2 JUNCTION BOX
- PAD MOUNTED CONTROL CENTER (SHADED AREA INDICATES PHOTOCELL ORIENTATION) (NORTH OR EAST)
- EXISTING STREET LIGHTING CONDUIT
- - - EXISTING TRAFFIC SIGNAL CONDUIT
- ◇ CONSTRUCTION NOTE NUMBER



7301 West 133rd Street, Suite 200
Overland Park, KS 66213-8750
TEL 913.301.1170
FAX 913.301.1174
www.molssonassociates.com



REV. NO.	DATE	REVISIONS DESCRIPTION	BY

LIGHTING PLAN
JOHNSON DRIVE

JOHNSON DRIVE STREET LIGHTING

MISSION, KANSAS

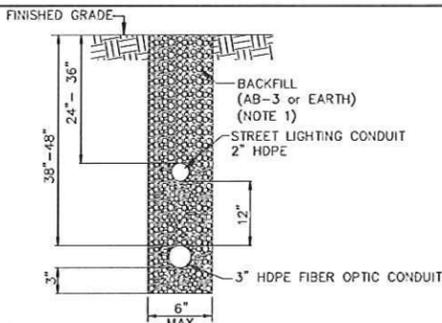
2014

drawn by: JBC
 checked by: JSS
 approved by: TAF
 created by: TAF
 project no.: 010-2745
 drawing no.: ABC.DWG
 date: 3.20.14

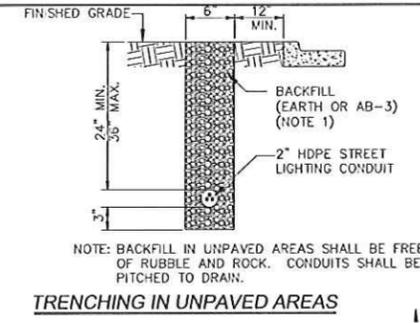
SHEET
4 of 9

BILL OF MATERIALS (1)			
ITEM	UNIT	QUANTITY	
STEEL COMBINATION LIGHTING/SIGNAL POLE	EACH	X	
40' ALUMINUM POLE w/ ___' BRACKET ARM	OP40_	EACH	X
40' ALUMINUM POLE w/ 8' BRACKET ARM	OP401	EACH	X
40' ALUMINUM POLE w/ TWIN ___' BRACKET ARMS	OP403	EACH	X
40' ALUMINUM POLE w/ ___' AND ___' BRACKET ARMS	OP403	EACH	X
30' ALUMINUM POLE w/ 8' BRACKET ARM	OP301	EACH	X
30' ALUMINUM POLE w/12' BRACKET ARM	OP302	EACH	X
30' ALUMINUM POLE w/TWIN 8' BRACKET ARMS	OP303	EACH	X
30' ALUMINUM POLE w/___' AND ___' BRACKET ARMS	OP303	EACH	X
14' ALUMINUM POLE	EACH	X	
CONCRETE POLE FOUNDATION CAP	EACH	X	
CONCRETE FOUNDATION FOR 40' POLE	EACH	X	
CONCRETE FOUNDATION FOR 14' POLE	EACH	X	
TYPE F1 SCREW-IN FOUNDATION	EACH	X	
TYPE F2 SCREW-IN FOUNDATION	EACH	X	
TYPE T1 SCREW-IN FOUNDATION	EACH	X	
TYPE R SCREW-IN FOUNDATION	EACH	X	
28' SPECIALTY POLE WITH SINGLE 8' ARM	EACH	8	(3)
28' SPECIALTY POLE WITH 8' AND 4' ARM	EACH	32	(3)
14' SPECIALTY POLE WITH SINGLE 4' ARM	EACH	51	(3)
COBRA-HEAD LUMINAIRE w/135 WATT LED LAMP	EACH	3	(2)
SPECIALTY 90 WATT LED LAMP MOUNTED AT 26'	EACH	40	(3)
SPECIALTY 40 WATT LED LAMP MOUNTED AT 14'	EACH	83	(3)
TYPE I SERVICE BOX	EACH	X	
TYPE I JUNCTION BOX	EACH	X	
TYPE II JUNCTION BOX	EACH	X	
CONTROL CENTER - PAD MOUNTED (1-CIRCUIT) (___ AMP; ___V)	EACH	X	
CONTROL CENTER - PAD MOUNTED (4 CIRCUIT) (100 AMP; 240 V)	EACH	X	
CONCRETE CONTROL CENTER FOUNDATION (1-CIRCUIT CONTROL CENTER)	EACH	X	
CONCRETE CONTROL CENTER FOUNDATION (4-CIRCUIT CONTROL CENTER)	EACH	X	
1/2" x 10'-0" GROUND ROD W/ CLAMP FOR CONTROL CENTER	EACH	X	
PHOTO CELL, CAT. #ALR-SST	EACH	X	
2" METALLIC CONDUIT (FOR EXTENSION OF EXISTING CONDUIT ONLY)	LN. FT.	X	
3" METALLIC CONDUIT (FOR EXTENSION OF EXISTING CONDUIT ONLY)	LN. FT.	X	
2" P.V.C. CONDUIT (FROM CONTROL CENTER TO POWER POLE)	LN. FT.	X	
1-3c No. 12 CABLE (LUMINAIRE OUTLETS)	LN. FT.	800	
1-3c No. 14 ILLUMINATED STREET NAME SIGN CABLE	LN. FT.	180	
3-1c No. 4 TYPE USE DISTRIBUTION CABLE	LN. FT.	6,290	
1c No. 10 TYPE THHN/THWN POLE AND BRACKET CABLE	LN. FT.	10,580	
3-1c No. 2 POWER CABLE	LN. FT.	X	
SOLID COPPER GROUND CABLE (BARE #6 AWG)	LN. FT.	X	
1c No. 10 TYPE THHN/THWN LOCATING CABLE	LN. FT.	X	
8 AMP FUSE	EACH	252	
BREAK-AWAY NON-FUSED CONNECTOR KITS	EACH	94	
BREAK-AWAY FUSED CONNECTOR KITS	EACH	252	
MULTIPLE STREET LIGHT TAP CONNECTOR	EACH	285	
SPLICE KIT	EACH	4	
REMOVE EXISTING EQUIPMENT	EACH	X	
RELOCATE EXISTING EQUIPMENT	EACH	X	
BREAKAWAY POLE DEVICE	SET	91	

NOTES: (1) THESE APPROXIMATE QUANTITIES WERE PREPARED SOLELY FOR THE CONTRACTOR'S CONVENIENCE. IT IS NOT GUARANTEED THAT THIS LIST OF MATERIALS CONSTITUTES ALL ITEMS REQUIRED FOR THE COMPLETION OF THE WORK.
(2) INSTALL LED COBRA HEAD LUMINAIRE ON EXISTING 12' LUMINAIRE ARM.
(3) SEE POLE DETAILS ON SHEET 9 FOR PRODUCT SERIES AND DESCRIPTION.

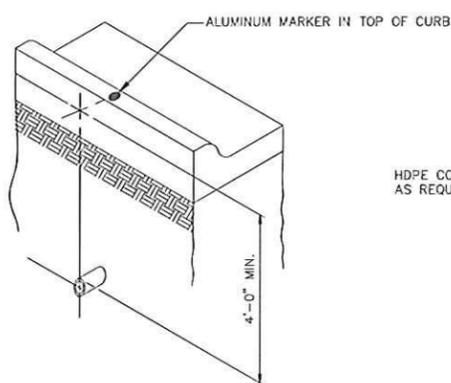


TRENCH w/MULTIPLE CONDUITS IN UNPAVED AREAS



TRENCHING IN UNPAVED AREAS

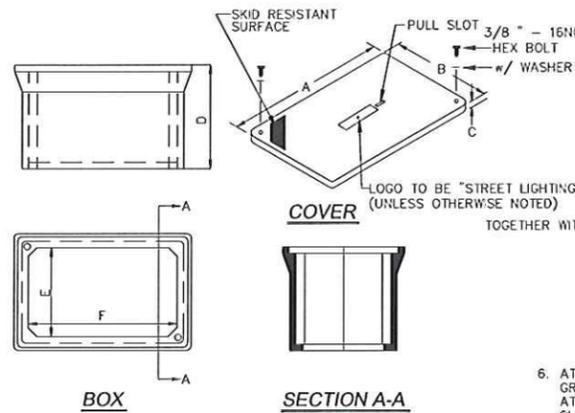
TRENCHING DETAILS
NOTE:
ALL TRENCHES FOR CONDUIT UNDER PROPOSED PAVED SURFACES SHALL BE BACKFILLED WITH FLOWABLE FILL.



CONDUIT UNDER ALL ROADWAY SURFACES SHALL BE PLACED A MINIMUM OF 4'-0" BELOW THE TOP OF CURB ELEVATION AND SHALL EXTEND TO A JUNCTION BOX OR SERVICE BOX. REFER TO THE CITY OF OVERLAND PARK HORIZONTAL DIRECTIONAL DRILLING GUIDELINES HANDBOOK, LATEST EDITION FOR FURTHER REQUIREMENTS FOR CONDUIT INSTALLATION UNDER ROADWAY SURFACES. THE CONDUIT SHALL BE INSTALLED TO DRAIN, ALL ENDS SHALL BE CAPPED IF NOT USED. AN ALUMINUM MARKER SHALL BE PLACED IN THE TOP OF THE CURB DIRECTLY OVER THE CONDUIT. ALUMINUM MARKERS WILL BE FURNISHED BY THE CITY OF OVERLAND PARK.

THE CONTRACTOR SHALL NOTIFY THE CITY OF OVERLAND PARK, DEPARTMENT OF PUBLIC WORKS TRAFFIC SERVICES DIVISION, 895-6000, FOR INSPECTION OF THE CONDUIT INSTALLATION BY THE STREET LIGHTING INSPECTOR. AT LEAST 24 HOURS NOTICE SHALL BE PROVIDED. THE CONDUIT SHALL NOT BE COVERED SO AS TO ENSURE PROPER DEPTH, CORRECT CONDUIT MATERIAL, AND PROPER CONDUIT END TREATMENT AS DESCRIBED ABOVE.

CONDUIT MARKING DETAIL

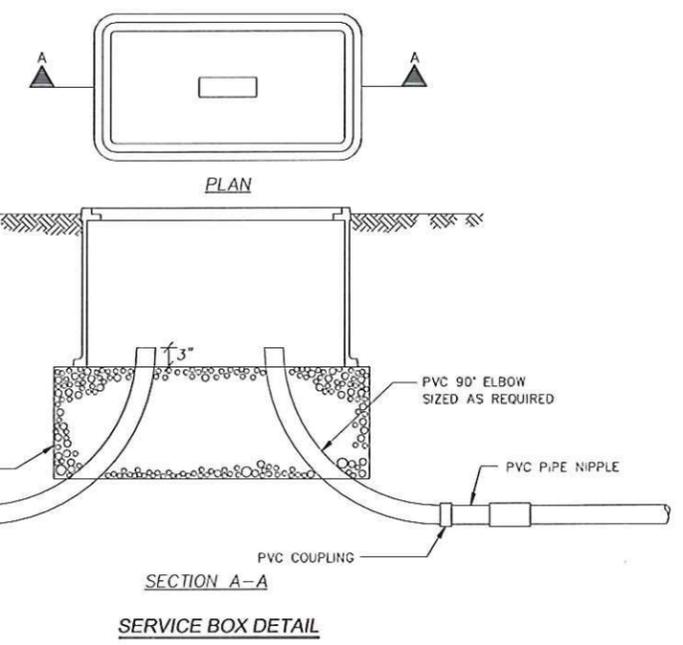


COVER SECTION A-A

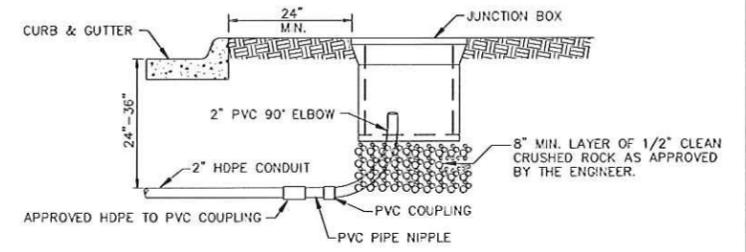
TYPE	DIMENSION (IN.)					
	A	B	C	D	E	F
I-JUNCTION	12 1/2	12 1/2	3/4	12 1/2	9 1/2 - 10 1/2	9 1/2 - 10 1/2
II-JUNCTION	18 - 18 1/2	11 1/2 - 11 1/2	1 1/4 - 2	12	9 1/2 - 10 1/2	16 1/2 - 17 1/2
I-SERVICE	35 3/4	24	3	24	22 1/2	33 3/4
II-SERVICE	47 3/4	30 3/4	3	24	28 1/2	45 3/4

*NOTE: THE TYPE II SERVICE BOX SHALL HAVE A TWO-PIECE OVERLAPPING COVER.

FIBERGLASS REINFORCED POLYMER CONCRETE JUNCTION & SERVICE BOX DETAILS



SERVICE BOX DETAIL



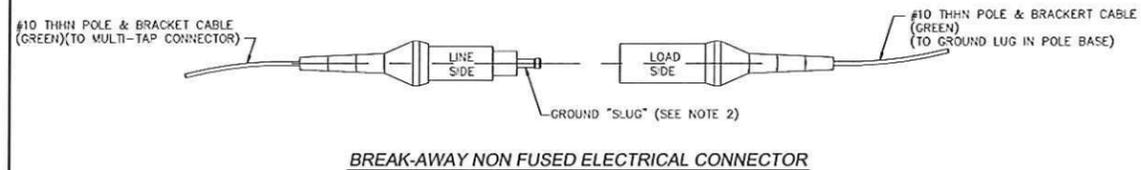
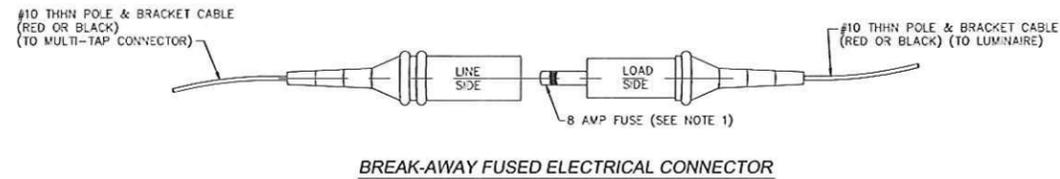
JUNCTION BOX INSTALLATION DETAIL

- NOTES
- JUNCTION BOXES SHALL BE STACKABLE FOR EXTRA DEPTH.
 - TYPE I JUNCTION BOXES SHALL BE RATED FOR NO LESS THAN 15,000 lbs. VERTICAL TEST LOAD AND NO LESS THAN 8000 lbs. COVER LOAD OVER A 10"x10" AREA.
 - TYPE II JUNCTION BOXES SHALL BE RATED FOR NO LESS THAN 22,500 lbs. VERTICAL TEST LOAD AND NO LESS THAN 8000 lbs. COVER LOAD OVER A 10"x10" AREA.
 - TYPE I SERVICE BOXES SHALL BE RATED FOR NO LESS THAN 22,500 lbs. VERTICAL TEST LOAD AND NO LESS THAN 8000 lbs. COVER LOAD OVER A 10"x10" AREA.
 - MATERIAL TO BE AN AGGREGATE CONSISTING OF SAND AND GRAVEL BOUND TOGETHER WITH A POLYMER AND REINFORCED WITH CONTINUOUS WOVEN GLASS STRANDS. IT SHALL HAVE THE FOLLOWING PROPERTIES.

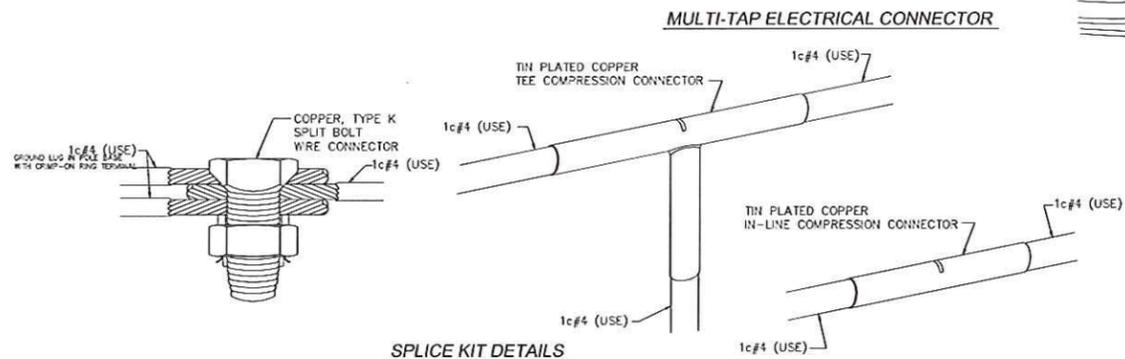
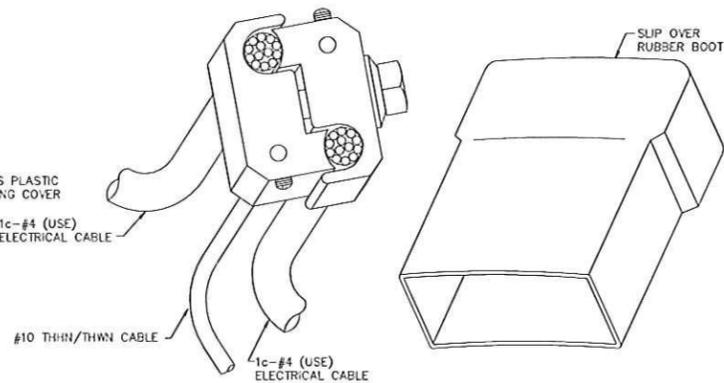
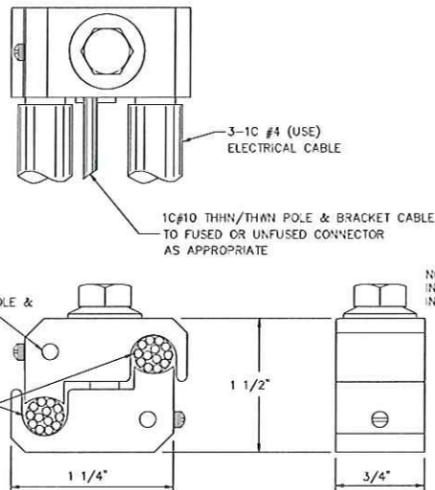
COMPRESSIVE STRENGTH-11,000 psi ASTM C-109
TENSILE STRENGTH-1,700 psi ASTM C-496
FLEXURAL STRENGTH-7,500 psi ASTM D-790

ALL INFORMATION APPEARING ON THIS SHEET IS INTENDED ONLY FOR USE ON THIS PROJECT AND SHALL NOT BE DUPLICATED, DISCLOSED, OR OTHERWISE USED WITHOUT THE WRITTEN CONSENT OF THE CITY OF MISSION, KANSAS

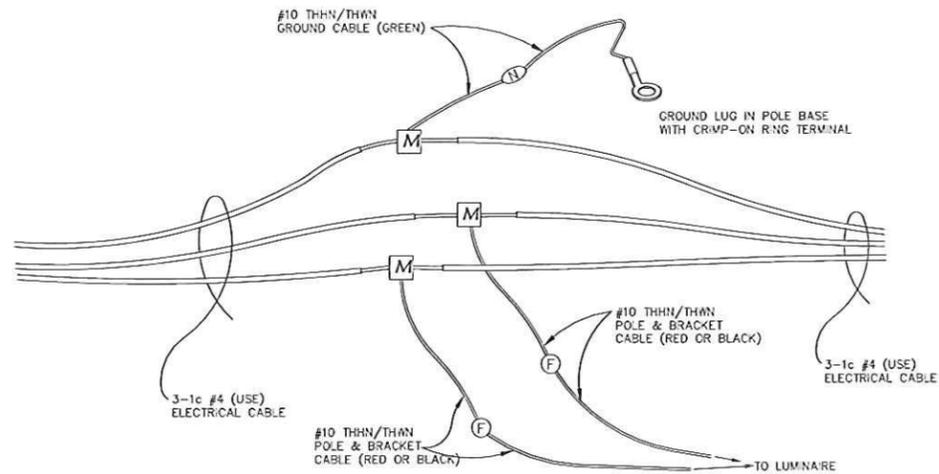
CITY OF MISSION DEPARTMENT OF PUBLIC WORKS			
LIGHTING DETAILS/BILL OF MATERIALS			
DESIGNED:	BLW	LAST REVISED:	12/15/08
DETAILED:	TLL	SCALE:	SHEET
CHECKED:	BCS	1"=N.T.S. horz.	
APPROVED:	BCS	1"=N.T.S. vert.	6 of 9



- NOTES:
1. FUSE REMAINS IN "LOAD SIDE" AFTER BREAK-AWAY.
 2. GROUND "SLUG" REMAINS IN "LINE SIDE" AFTER BREAK-AWAY.

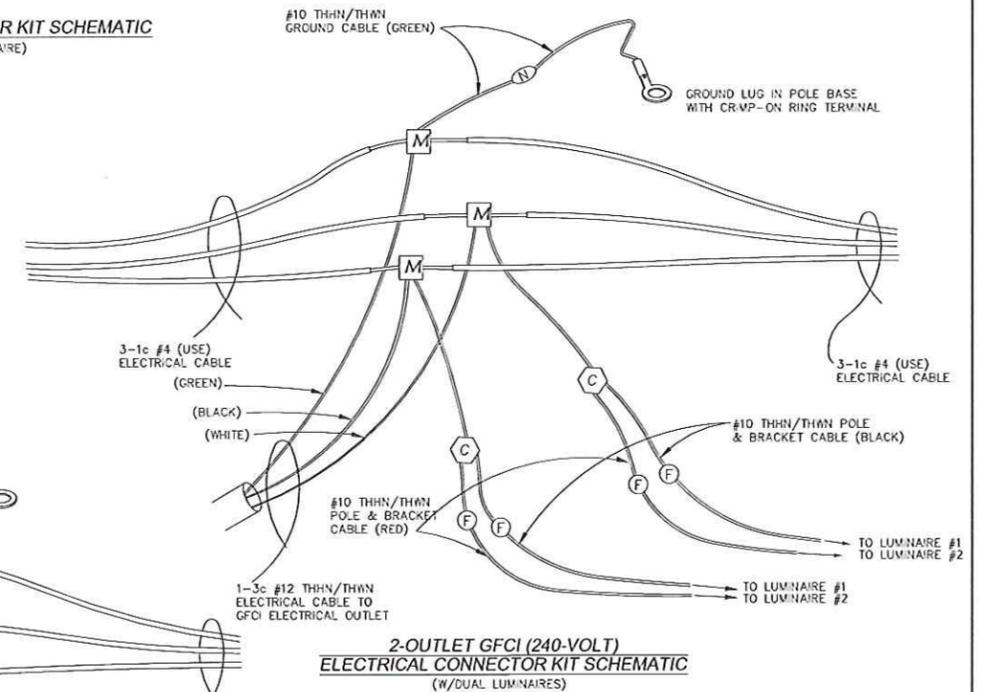
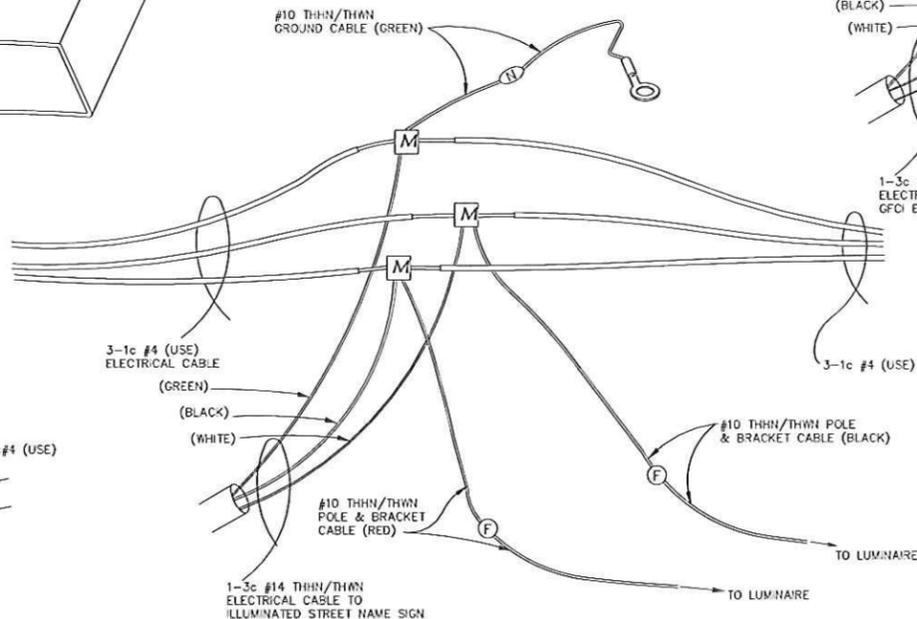


1. TAPE CONNECTOR COMPLETELY WITH RUBBER ELECTRICAL TAPE TO COVER ALL BARE WIRE AND CONNECTOR.
2. TAPE OVER WITH VINYL ELECTRICAL TAPE
3. APPLY LIQUID SCOTCH COAT.



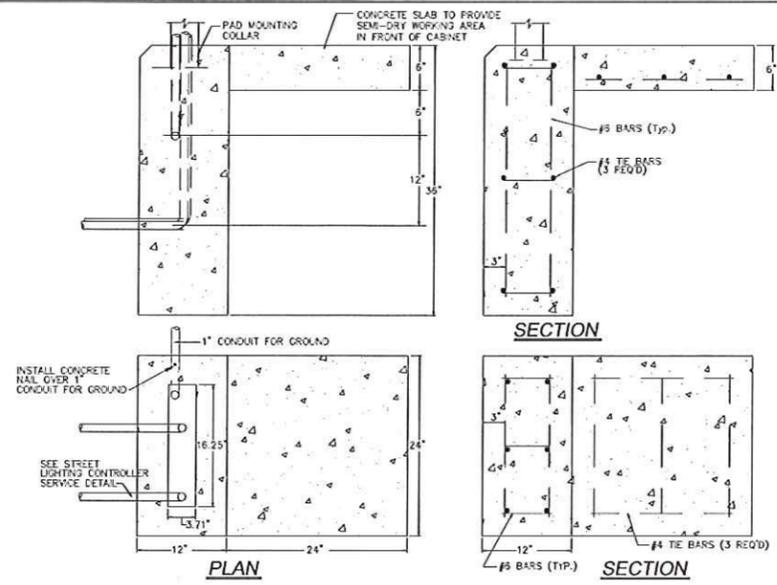
LEGEND

- M MULTI-TAP ELECTRICAL CONNECTOR
- F BREAK-AWAY FUSED ELECTRICAL CONNECTOR WITH 8 AMP FUSE
- N BREAK-AWAY NON-FUSED ELECTRICAL CONNECTOR WITH GROUND "SLUG"
- C SPLIT BOLT ELECTRICAL CONNECTOR OR EQUIVALENT

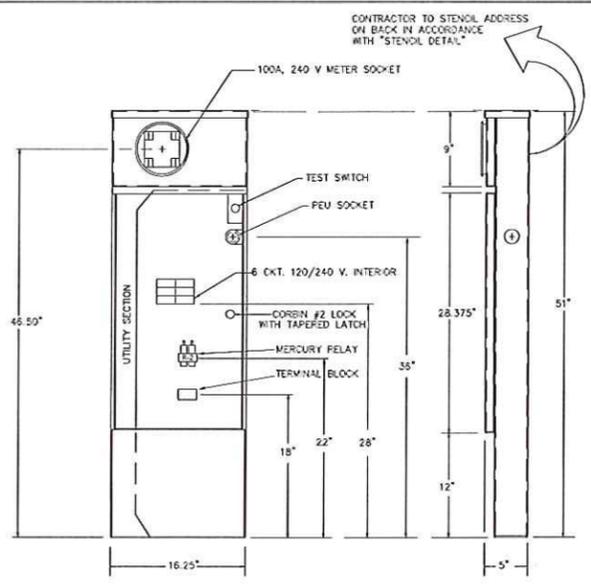


ALL INFORMATION APPEARING ON THIS SHEET IS INTENDED ONLY FOR USE ON THIS PROJECT AND SHALL NOT BE DUPLICATED, DISCLOSED, OR OTHERWISE USED WITHOUT THE WRITTEN CONSENT OF THE CITY OF MISSION, KANSAS

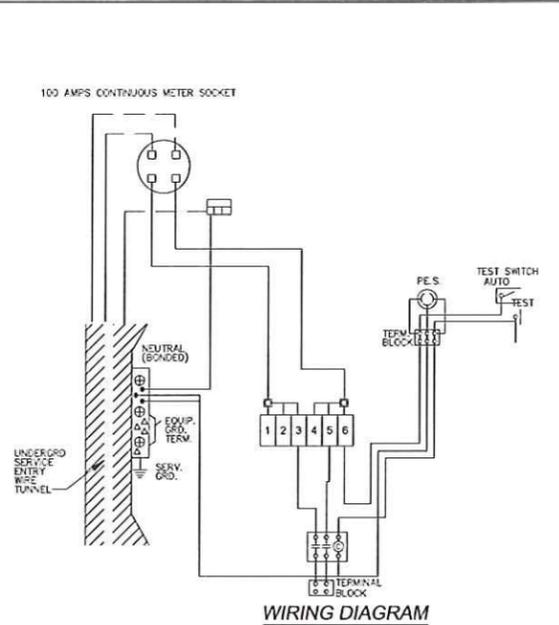
CITY OF MISSION DEPARTMENT OF PUBLIC WORKS			
ELECTRICAL CONNECTOR DETAILS			
DESIGNED:	BLW	LAST REVISED:	12/15/08
DETAILED:	TLL	SCALE:	SHEET
CHECKED:	BCS	1" = N.T.S. horz.	
APPROVED:	BCS	1" = N.T.S. vert.	7 of 9



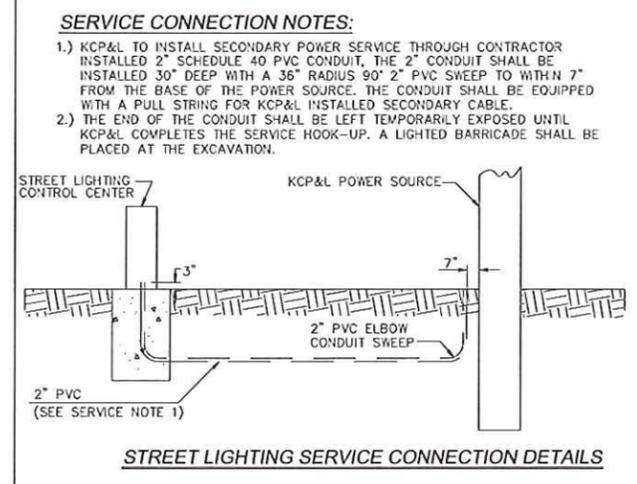
CONCRETE FOUNDATION
(SINGLE CIRCUIT CONTROLLER)



PAD MOUNTED CONTROLLER (1-CIRCUIT)
(USED ONLY IN TEMPORARY SITUATIONS AS APPROVED BY THE CITY)

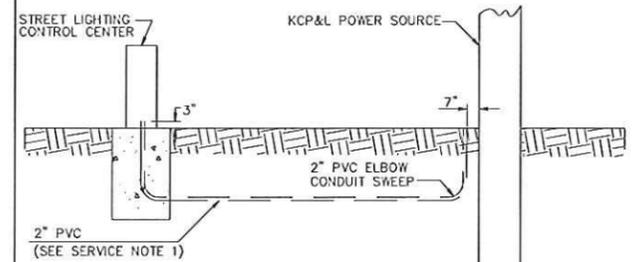


WIRING DIAGRAM

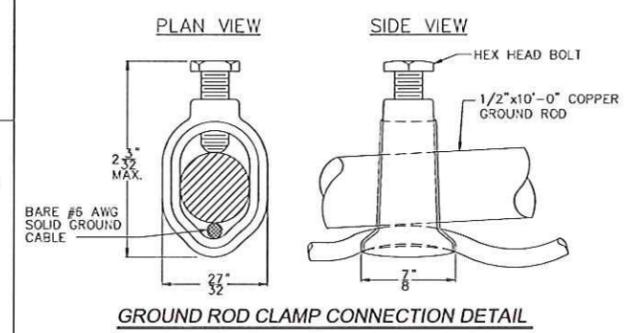


SERVICE CONNECTION NOTES:

- 1.) KCP&L TO INSTALL SECONDARY POWER SERVICE THROUGH CONTRACTOR INSTALLED 2" SCHEDULE 40 PVC CONDUIT, THE 2" CONDUIT SHALL BE INSTALLED 30" DEEP WITH A 36" RADIUS 90° 2" PVC SWEEP TO WITHIN 7" FROM THE BASE OF THE POWER SOURCE. THE CONDUIT SHALL BE EQUIPPED WITH A PULL STRING FOR KCP&L INSTALLED SECONDARY CABLE.
- 2.) THE END OF THE CONDUIT SHALL BE LEFT TEMPORARILY EXPOSED UNTIL KCP&L COMPLETES THE SERVICE HOOK-UP. A LIGHTED BARRICADE SHALL BE PLACED AT THE EXCAVATION.



STREET LIGHTING SERVICE CONNECTION DETAILS



GROUND ROD CLAMP CONNECTION DETAIL

- * NOTES:**
1. SEE THE PLAN SHEETS FOR SPECIFIC DETAILS (i.e. PAD SIZE, CONDUIT REQUIREMENTS FOR CIRCUIT CABLES) FOR EACH INDIVIDUAL CONTROL CENTER.
 2. ALL CONCRETE USED IN THIS WORK SHALL MEET THE REQUIREMENTS OF THE OVERLAND PARK MUNICIPAL CODE AND SHALL BE KCMMB4K CONCRETE.

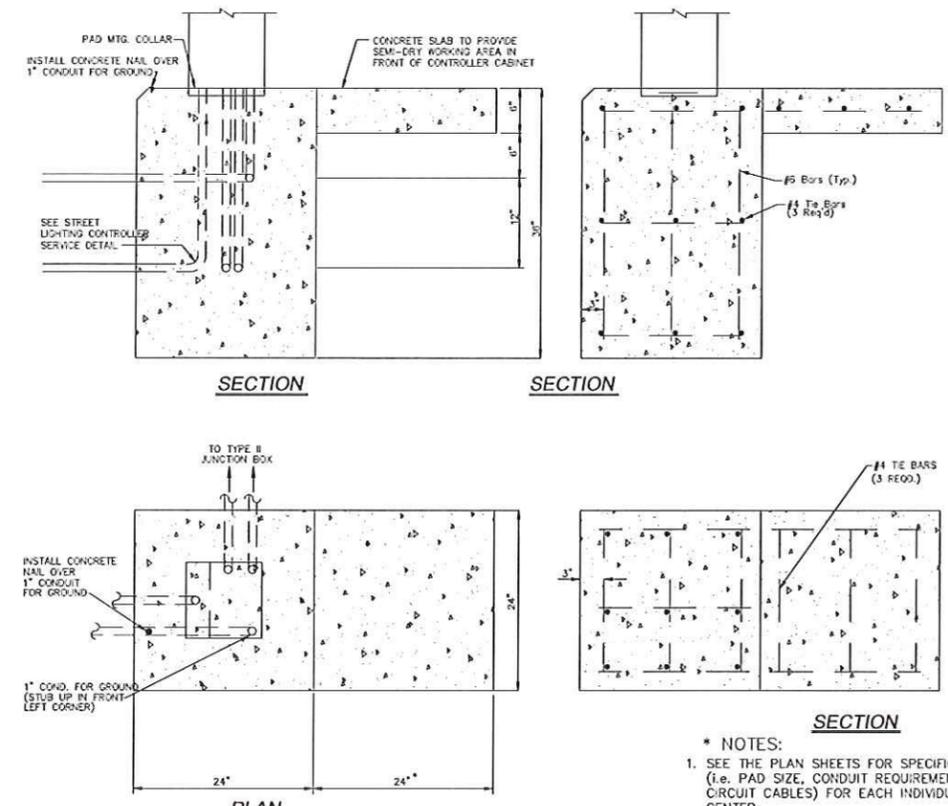
SINGLE AND 4-CIRCUIT CONTROLLER NOTES:

- 1) ENCLOSURE TO BE CODE 0.125 INCH CORROSION RESISTANT ALUMINUM.
- 2) ALL FACTORY INSTALLED WIRE TO BE COPPER.
- 3) ALL TERMINALS APPROVED FOR COPPER OR ALUM. WIRE.
- 4) SILVER-PLATED COPPER BUSSED CIRCUIT BREAKER INTERIOR.
- 5) FACTORY INSTALLED CORBN LOCK ASSEMBLY DESIGNED FOR STANDARD NO. 2 KEY.
- 6) FINISH: NATURAL ALUMINUM
- 7) CONTRACTOR TO PROVIDE GROUND ROD(S) AS REQUIRED FOR MAXIMUM OF 25 OHMS RESISTANCE TO GROUND.
- 8) CONTRACTOR TO PROVIDE SPARE METER SOCKET WITHIN THE METER COMPARTMENT OF THE CABINET ENCLOSURE (4-CIRCUIT ONLY).
- 9) CONTRACTOR PERFORMING WORK ON ANY STREET LIGHT CIRCUIT SHALL BE REQUIRED TO INSTALL A CITY APPROVED LOCKOUT DEVICE FOR EACH RESPECTIVE CIRCUIT AFFECTED. A CITY APPROVED TAG, INDICATING CONTRACTOR'S NAME AND CONTACT INFORMATION SHALL BE ATTACHED TO THE LOCKOUT DEVICE.
- 10) PHOTOCELL AND PAD SHALL BE ORIENTED TO THE NORTH OR EAST. PHOTOCELL IS LOCATED ON THE RIGHT SIDE OF THE CABINET

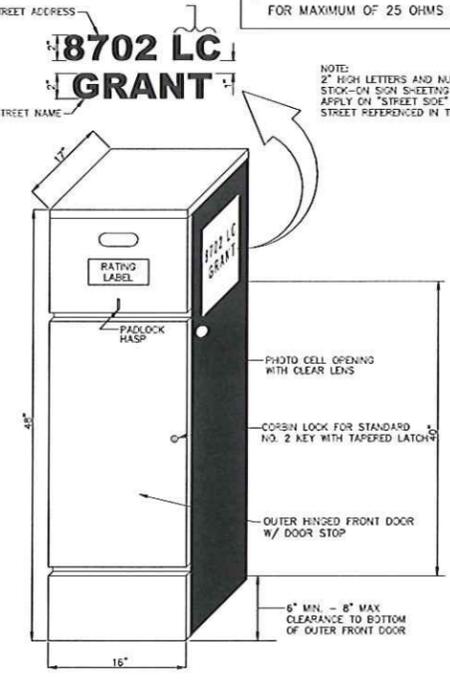
STICK ON DETAIL
DESIGNATES "LIGHTING CONTROLLER"

STREET ADDRESS
8702 LC GRANT
STREET NAME

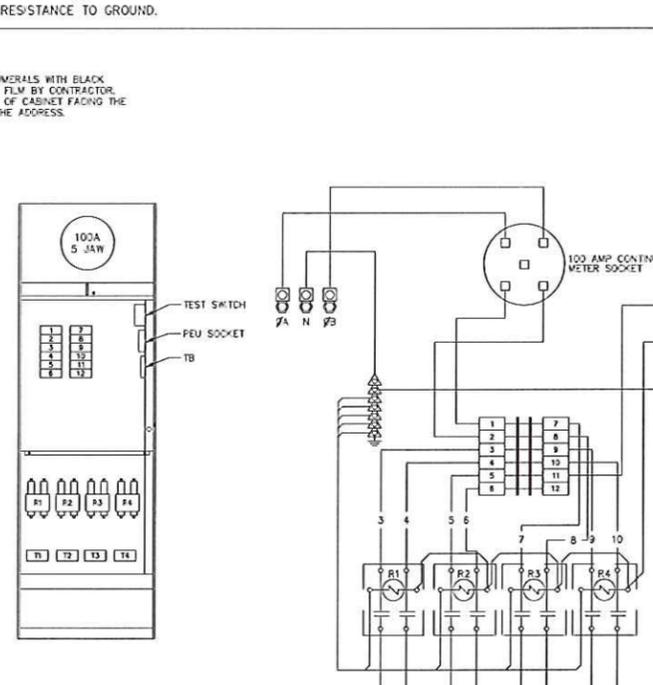
NOTE: 2" HIGH LETTERS AND NUMERALS WITH BLACK STICK-ON SIGN SHEETING FILM BY CONTRACTOR. APPLY ON "STREET SIDE" OF CABINET FACING THE STREET REFERENCED IN THE ADDRESS.



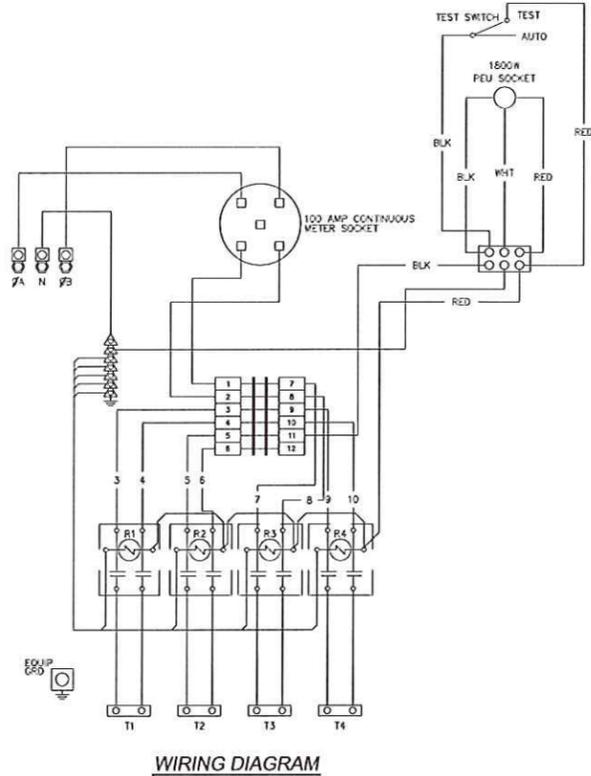
CONCRETE FOUNDATION
(4-Circuit Controller)



PAD MOUNTED CONTROLLER (4-CIRCUIT)



(LESS OUTER FRONT DOOR & INSIDE PANEL DOOR)



WIRING DIAGRAM

CIRCUIT DIRECTORY				
NO.	DESCRIPTION	QTY	AMP	POLE
1,2	MAIN	1	100	2
3,4	BRKR. 1	1	30	2
5,6	BRKR. 2	1	30	2
7,8	BRKR. 3	1	30	2
9,10	BRKR. 4	1	30	2
11	BRKR. 5	1	15	1
12	BLANK			
R1	RELAY 1	1	30	2
R2	RELAY 2	1	30	2
R3	RELAY 3	1	30	2
R4	RELAY 4	1	30	2

- * NOTES:**
1. SEE THE PLAN SHEETS FOR SPECIFIC DETAILS (i.e. PAD SIZE, CONDUIT REQUIREMENTS FOR CIRCUIT CABLES) FOR EACH INDIVIDUAL CONTROL CENTER.
 2. ALL CONCRETE USED IN THIS WORK SHALL MEET THE REQUIREMENTS OF THE OVERLAND PARK MUNICIPAL CODE AND SHALL BE KCMMB4K CONCRETE.

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CITY OF MISSION DEPARTMENT OF PUBLIC WORKS			
CONTROLLER DETAILS			
DESIGNED:	BLW	LAST REvised:	12/15/08
DETAILED:	TLL	SCALE	SHEET
CHECKED:	BCS	1" = N.T.S. horz	
APPROVED:	BCS	1" = N.T.S. vert.	8 of 9

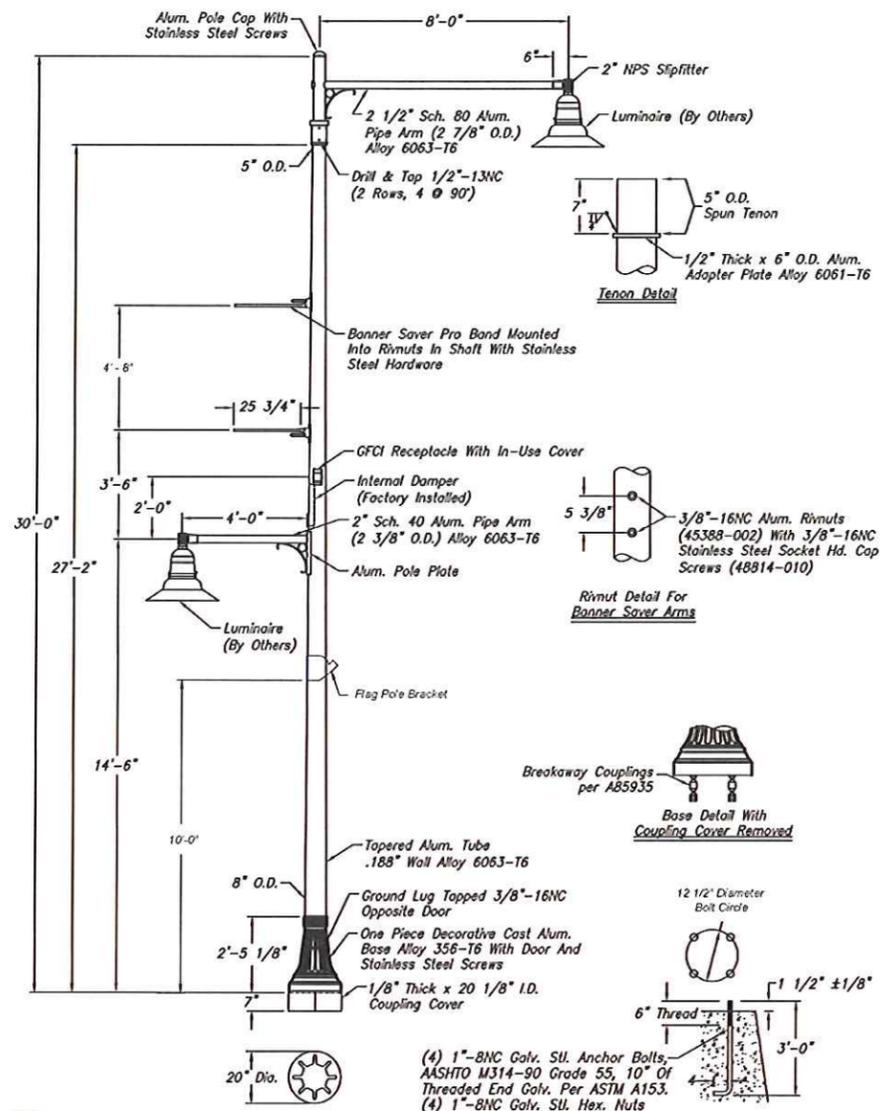
POLE SERIES (1)	
POLE DESCRIPTION	PRODUCT NUMBER*
28' POLE WITH 8' ARM	HAPCO - YORK SERIES LIGHTING POLE - DWG NO. B32458A
28' POLE WITH 8' AND 4' ARMS	HAPCO - YORK SERIES LIGHTING POLE - DWG NO. B32458
14' POLE WITH 8' ARM	HAPCO - YORK SERIES LIGHTING POLE - DWG NO. B32459

LUMINAIRE SERIES	
LUMINAIRE DESCRIPTION	PRODUCT NUMBER*
90W LED LAMP	SENTRY - SBGA6-(3)-32LEDV18-1.05A-840-STLA-PTAD
40W LED LAMP	SENTRY - SBGA6-(3)14LEDV18-0.53A-840-STLA-PTAD
135W LED COBRA HEAD	PHILIPS ROADVIEW - RVS-135W80LED4L-R-LE2 OR APPROVED EQUIVALENT

* PRODUCT NUMBER TO BE VERIFIED DURING SHOP DRAWING REVIEW.

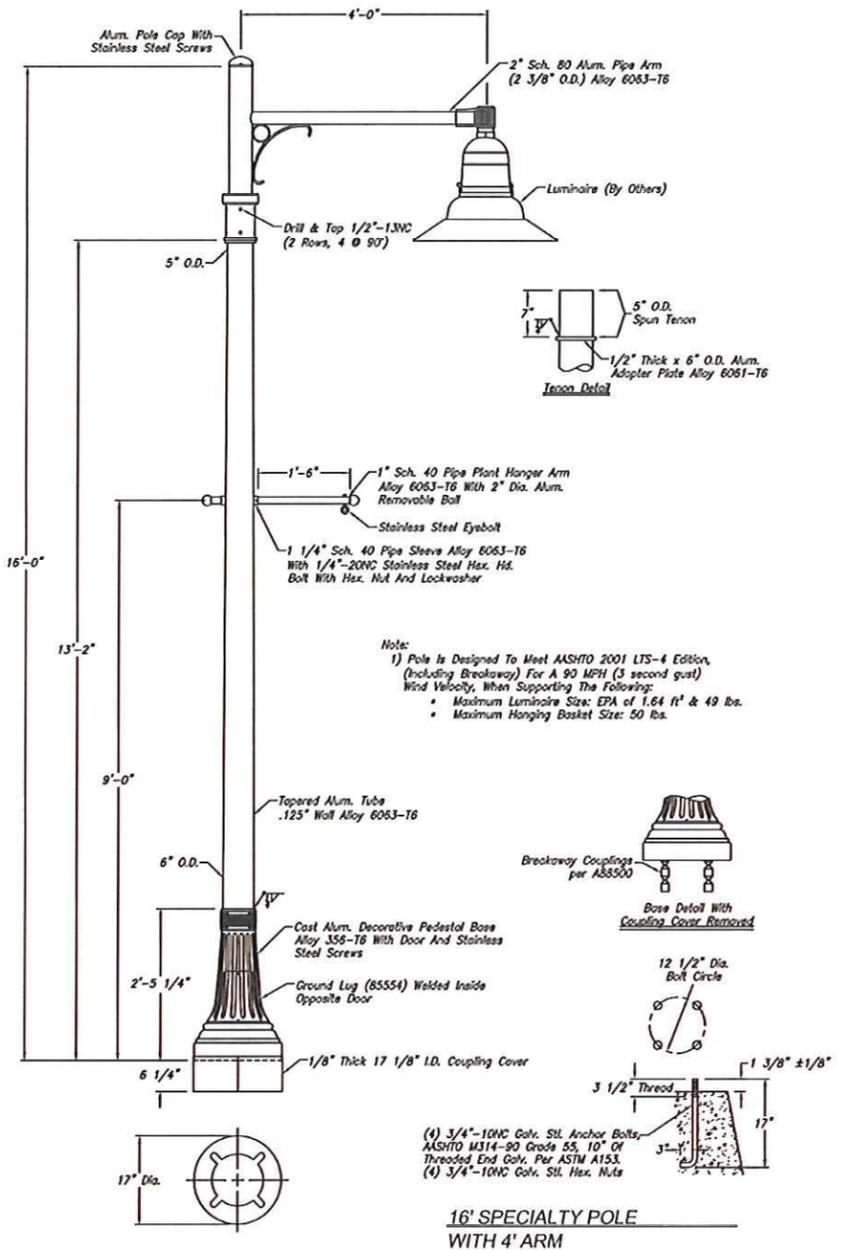
GENERAL NOTES:

(1) ALL SPECIALTY POLES, FIXTURES, AND LUMINAIRE ATTACHMENTS SHALL BE DARK FOREST GREEN TEXTURED IN COLOR TO MATCH EXISTING PHILLIPS LUMEC POLES ALONG JOHNSON DRIVE. THE APPLICATION PROCESS CONSISTS OF POLYESTER POWDER COAT PAINT (4 MLS/100 M.CRONS). THE CHEMICAL COMPOSITION SHALL PROVIDE A HIGHLY DURABLE UV AND SALT SPRAY RESISTANT FINISH IN ACCORDANCE TO THE ASTM-B-117.73 STANDARD AND HUMIDITY PROOF TO THE ASTM-D2247-68 STANDARD.



Note:
Pole Is Designed To Meet AASHTO 2001 LTS-4 Edition,
(Including Breakaway) For A 90 MPH (3 second gust)
Wind Velocity, When Supporting The Following:
• Maximum Luminaire Size: EPA of 1.64 ft²
(ea.) & 49 lbs. (ea.)
• Maximum Banner Saver Size: 2' x 10'

30' SPECIALTY POLE
WITH 8' ARM
WITH 8' ARM & 4' ARM (SHOWN)



Note:
1) Pole Is Designed To Meet AASHTO 2001 LTS-4 Edition,
(Including Breakaway) For A 90 MPH (3 second gust)
Wind Velocity, When Supporting The Following:
• Maximum Luminaire Size: EPA of 1.64 ft² & 49 lbs.
• Maximum Hanging Basket Size: 50 lbs.

16' SPECIALTY POLE
WITH 4' ARM

DWC: F:\PROJECTS\010-2745\150-Johnson Dr - Lamar to Neil Design\TRFC\Final_Plans\Separate Street Lighting Plans (2014)\Details\TRFC_STL\POLE DETAILS.dwg USER: jstretz DATE: Sep 04, 2014 2:52pm XREFS: 102745_22X36_BRDR



REV. NO.	DATE	REVISIONS DESCRIPTION	BY
1	9-2-14	POLE AND LUMINAIRE	JSS

REV. NO.	DATE	REVISIONS DESCRIPTION	BY
1	9-2-14	POLE AND LUMINAIRE	JSS

2014

DECORATIVE LUMINAIRE
POLE DETAIL SHEET
JOHNSON DRIVE STREET LIGHTING
MISSION, KANSAS

drawn by:	JSS
checked by:	TAF
QA/QC by:	TAF
project no.:	010-2745
drawing no.:	ASO-DWG
date:	3-20-14