

ROADWAY LIGHTING ESTIMATE OF QUANTITIES

ITEM CODE	ITEM	UNIT				TOTAL
2562	SIGNS	SO FT				-
2569	DEMOLITION (1.5%)	LP SUM				-
2650	MAINTAIN & CONTROL TRAFFIC (5%)	LP SUM				-
2775	FLASHING ARROW	EACH				-
4700	POLE 30' MTG HT	EACH				-
4701	POLE 40' MTG HT	EACH				-
4710	POLE 80' MTG HT HIGH MAST	EACH				-
4711	POLE 90' MTG HT HIGH MAST	EAST				-
4712	POLE 100' MTG HT HIGH MAST	EACH				-
4713	POLE 110' MTG HT HIGH MAST	EACH				-
4714	POLE 120' MT HT HIGH MAST	EACH				-
4720	BRACKET 4'	EACH				-
4721	BRACKET 6'	EACH				-
4722	BRACKET 8'	EACH				-
4723	BRACKET 10'	EACH				-
4724	BRACKET 12'	EACH				-
4725	BRACKET 15'	EACH				-
4730	BRACKET 'C'	EACH				-
4740	POLE BASE	EACH				-
4741	POLE BASE IN MED WALL	EACH				-
4742	POLE BASE - HIGH MAST	CU YD				-
4750	TRANSFORMER BASE	EACH				-
4760	POLE W/SECONDARY CONTROL EQUIP	EACH				-
4761	LIGHTING CONTROL EQUIPMENT	EACH				-
4771	HPS LUMINAIRE WALL PACK	EACH				-
4772	HPS LUMINAIRE OFFSET	EACH				-
4773	HPS LUMINAIRE HIGH MAST	EACH				-
4775	NAVIGATION LIGHT 360 DEG GREEN - LED	EACH				-
4776	NAVIGATION LIGHT 180 DEG RED - LED	EACH				-
4780	FUSED CONNECTOR KIT	EACH				-
4790	CONDUIT - 1/2 INCH	LIN FT				-
4791	CONDUIT - 3/4 INCH	LIN FT				-
4792	CONDUIT - 1 INCH	LIN FT				-
4793	CONDUIT - 1 1/4 INCH	LIN FT				-
4794	CONDUIT - 1 1/2 INCH	LIN FT				-
4795	CONDUIT - 2 INCH	LIN FT				-
4796	CONDUIT - 2 1/2 INCH	LIN FT				-
4797	CONDUIT - 3 INCH	LIN FT				-
4798	CONDUIT - 3 1/2 INCH	LIN FT				-
4799	CONDUIT - 4 INCH	LIN FT				-
4800	MARKER	EACH				-
4810	ELECTRICAL JUNCTION BOX	EACH				-
4811	ELECTRICAL JUNCTION BOX TYPE B	EACH				-
4820	TRENCHING AND BACKFILLING	LIN FT				-
4821	OPEN CUT ROADWAY	LIN FT				-
4832	WIRE - NO. 12	LIN FT				-
4833	WIRE - NO. 8	LIN FT				-
4834	WIRE - NO. 6	LIN FT				-
4835	WIRE - NO. 4	LIN FT				-
4836	WIRE - NO. 2	LIN FT				-
4837	WIRE - NO. 0	LIN FT				-
4860	CABLE - NO. 8/3C DUCTED	LIN FT				-
4861	CABLE - NO. 6/3C DUCTED	LIN FT				-
4862	CABLE - NO. 4/3C DUCTED	LIN FT				-
4863	CABLE - NO. 2/3C DUCTED	LIN FT				-
4864	CABLE - NO. 0/3C DUCTED	LIN FT				-
4871	POLE 35' WOODEN	EACH				-
4872	POLE 40' WOODEN	EACH				-
4873	POLE 45' WOODEN	EACH				-
4939	REMOVE POLE	EACH				-
4940	REMOVE LIGHTING	LP SUM				-
4941	REMOVE POLE BASE	EACH				-
4942	REMOVE, STORE, AND REINSTALL POLE	EACH				-
4943	REMOVE, STORE REINST CONTROL EO	EACH				-
2039NS835	ELECTRICAL JUNCTION BOX TYPE A	EACH				-
2039NS835	ELECTRICAL JUNCTION BOX TYPE C	EACH				-
2039NS835	PVC CONDUIT - 3" IN MEDIAN BARRIER WALL	LIN FT				-
2045NS835	TEMPORARY LIGHTING	LP SUM				-
20630ND	JUNCTION BOX 6"x6"x6"	EACH				-
20993ND	HPS LUMINAIRE 400 WATT	EACH				-
21543EN	BORE AND JACK CONDUIT	LIN FT				-
21563NN	SPLICE BOX - 8"x6"x4"	EACH				-
21564NN	REMOVE AESTHETIC LIGHTING	LP SUM				-
21565NN	WIRELESS LIGHTING MONITORING SYSTEM	LP SUM				-
21568NN	HIGH MAST LOWERING DEVICE	EACH				-
21579EN	FLEX CONDUIT - 1 1/4 INCH	LIN FT				-
21734NN	PEDESTAL CONTROL EQUIPMENT	LP SUM				-
21742NN	TEMPORARY SERVICE	LP SUM				-
22939ND	INSTALL LUMINAIRE POLE	EACH				-
23161NN	POLE BASE - HIGH MAST	CU YD				-
23675EC	WIRE - NO. 12-INSTALL	LIN FT				-
24474ED	WIRE - NO. 8-INSTALL	LIN FT				-

ROADWAY LIGHTING ESTIMATE OF QUANTITIES

TOTAL	UNITS	CODE	ITEM DESCRIPTION
60	SO FT	2562	SIGNS
1	LP SUM	2569	DEMOLITION (1.5%)
60	LP SUM	2650	MAINTAIN & CONTROL TRAFFIC (5%)
638	EACH	2775	FLASHING ARROW
775	EACH	4700	POLE 30' MTG HT
70	EACH	4701	POLE 40' MTG HT
470	EACH	4710	POLE 80' MTG HT HIGH MAST
40	EACH	4711	POLE 90' MTG HT HIGH MAST
259	EACH	4712	POLE 100' MTG HT HIGH MAST
3	EACH	4713	POLE 110' MTG HT HIGH MAST
7	EACH	4714	POLE 120' MTG HT HIGH MAST
4	EACH	4720	BRACKET 4'
2	EACH	4721	BRACKET 6'
10	EACH	4722	BRACKET 8'
2	EACH	4723	BRACKET 10'
28.66	EACH	4724	BRACKET 12'
1	EACH	4725	BRACKET 15'
12	EACH	4730	BRACKET 'C'
	EACH	4740	POLE BASE
	EACH	4741	POLE BASE IN MED WALL
	CU YD	4742	POLE BASE - HIGH MAST
	EACH	4750	TRANSFORMER BASE
	EACH	4760	POLE W/SECONDARY CONTROL EQUIP
	EACH	4761	LIGHTING CONTROL EQUIPMENT
	EACH	4770	HPS LUMINAIRE
	EACH	4771	HPS LUMINAIRE WALL PACK
	EACH	4772	HPS LUMINAIRE OFFSET
	EACH	4773	HPS LUMINAIRE HIGH MAST
	EACH	4775	NAVIGATION LIGHT 360 DEG GREEN - LED
	EACH	4776	NAVIGATION LIGHT 180 DEG RED - LED
	EACH	4780	FUSED CONNECTOR KIT
	LIN FT	4790	CONDUIT 1/2 INCH
	LIN FT	4791	CONDUIT 3/4 INCH
	LIN FT	4792	CONDUIT 1 INCH
	LIN FT	4793	CONDUIT 1 1/4 INCH
	LIN FT	4794	CONDUIT 1 1/2 INCH
	LIN FT	4795	CONDUIT 2 INCH
	LIN FT	4796	CONDUIT 2 1/2 INCH
	LIN FT	4797	CONDUIT 3 INCH
	LIN FT	4798	CONDUIT 3 1/2 INCH
	LIN FT	4799	CONDUIT 4 INCH
	EACH	4800	MARKER
	EACH	4810	ELECTRICAL JUNCTION BOX
	EACH	4811	ELECTRICAL JUNCTION BOX TYPE B
	LIN FT	4820	TRENCHING AND BACKFILLING
	LIN FT	4821	OPEN CUT ROADWAY
	LIN FT	4832	WIRE-NO. 12
	LIN FT	4833	WIRE-NO. 8
	LIN FT	4834	WIRE-NO. 6
	LIN FT	4835	WIRE-NO. 4
	LIN FT	4836	WIRE-NO. 2
	LIN FT	4837	WIRE-NO. 0
	LIN FT	4860	CABLE - NO. 8/3C DUCTED
	LIN FT	4861	CABLE - NO. 6/3C DUCTED
	LIN FT	4862	CABLE - NO. 4/3C DUCTED
	LIN FT	4863	CABLE - NO. 2/3C DUCTED
	LIN FT	4864	CABLE - NO. 0/3C DUCTED
	EACH	4871	POLE 35' WOODEN
	EACH	4872	POLE 40' WOODEN
	EACH	4873	POLE 45' WOODEN
	EACH	4884	ANCHOR
	EACH	4939	REMOVE POLE
	LP SUM	4940	REMOVE LIGHTING
	EACH	4941	REMOVE POLE BASE
	EACH	4942	REMOVE, STORE, AND REINSTALL POLE
	EACH	4943	REMOVE, STORE REINST CONTROL EO
	EACH	2039NS835	ELECTRICAL JUNCTION BOX TYPE A
	EACH	2039NS835	ELECTRICAL JUNCTION BOX TYPE C
	LIN FT	2039NS835	PVC CONDUIT - 3" IN MEDIAN BARRIER WALL
	LP SUM	2045NS835	TEMPORARY LIGHTING
	EACH	20993ND	HPS LUMINAIRE 400 WATT
	LIN FT	21543EN	BORE AND JACK CONDUIT
	EACH	21563NN	SPLICE BOX - 8"x6"x4"
	LP SUM	21564NN	REMOVE AESTHETIC LIGHTING
	LP SUM	21565NN	WIRELESS LIGHTING MONITORING SYSTEM
	EACH	21568NN	HIGH MAST LOWERING DEVICE
	LIN FT	21579EN	FLEX CONDUIT - 1 1/4 INCH
	LP SUM	21734NN	PEDESTAL CONTROL EQUIPMENT
	LP SUM	21742NN	TEMPORARY SERVICE
	EACH	22939ND	INSTALL LUMINAIRE POLE
	CU YD	23161EN	POLE BASE - HIGH MAST
	EACH	23675EC	HPS LUMINAIRE 250 WATT
	LIN FT	24474ED	WIRE - NO. 12-INSTALL
	LIN FT	24474ED	WIRE - NO. 8-INSTALL
	EACH	2460IEC	INSTALL -

THE STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, CURRENT EDITION, AND OTHER SPECIAL NOTES AND SPECIFICATIONS WILL APPLY TO THIS PROJECT. SEE SECTION 706 FOR MEASUREMENT AND OTHER DETAILS. SEE SECTION 602 FOR SPIRAL REINFORCEMENT SPACING.

THE CONTRACTOR SHALL MAKE AN INSPECTION OF THE PROJECT SITE PRIOR TO SUBMITTING A BID AND SHALL BE THOROUGHLY FAMILIARIZED WITH EXISTING CONDITIONS. SUBMISSION OF A BID WILL BE CONSIDERED AN AFFIRMATION OF THIS INSPECTION HAVING BEEN COMPLETED.

ADD SENTENCE TO SECTION 834.06: ALL WIRE SHALL HAVE BONDING ADDED TO THE OUTER JACKET THAT STATES: "PROPERTY OF KENTUCKY TRANSPORTATION CABINET 502 564 0501".

ADD SENTENCE TO SECTION 834.08: ALL WIRE SHALL HAVE BONDING ADDED TO THE OUTER JACKET THAT STATES: "PROPERTY OF KENTUCKY TRANSPORTATION CABINET 502 564 0501".

MEASUREMENT NOTE THAT ARE IN ADDITION TO SECTION 716:

REMOVE, STORE AND REINSTALL POLE - DEPARTMENT WILL MEASURE THE QUANTITY AS EACH INDIVIDUAL UNIT REMOVED, STORED AND REINSTALLED. THE DEPARTMENT WILL NOT MEASURE WORK AND MATERIAL NECESSARY TO RELOCATE AN EXISTING LIGHTING STANDARD AND WILL CONSIDER THIS INCIDENTAL TO THIS ITEM OF WORK.

WOOD POLE - DEPARTMENT WILL MEASURE THE QUANTITY AS EACH INDIVIDUAL UNIT FURNISHED AND INSTALLED. THE DEPARTMENT WILL NOT MEASURE EXCAVATION, BACKFILLING, AND RESTORING DISTURBED AREAS.

ANCHOR - DEPARTMENT WILL MEASURE THE QUANTITY AS EACH INDIVIDUAL UNIT FURNISHED AND INSTALLED. THE DEPARTMENT WILL NOT MEASURE FURNISHING AND INSTALLING SPECIFIED ANCHOR, DOWN-OUT, MESSENGER, CLAMPS, CUT GUARD, AND INSULATORS IF REQUIRED.

WIRE OR CABLE SHALL INCLUDE INSTALLING SPECIFIED WIRE OR CABLE WITHIN CONDUIT AS INDICATED ON THE PLAN SHEETS. INCIDENTAL TO THIS ITEM SHALL BE THE FURNISHING AND INSTALLING OF SPLICE BOOTS OR ANY OTHER HARDWARE REQUIRED FOR INSTALLING CABLE. THE CONTRACTOR SHALL INSTALL ALL CABLE OR WIRE RUNS SPLICE-FREE FROM THE CONTROLLER TO EACH POLE. THE CABLE OR WIRE IS FEEDING. EXCEPTIONS TO THIS MUST BE APPROVED BY THE ENGINEER OR AS SPECIFIED ON THE PLANS. THE CONTRACTOR WILL RECEIVE WIRE IN 1000 FOOT ROLLS FROM OUR WAREHOUSE. THE CONTRACTOR SHALL RETURN ALL EXCESS WIRE TO THE TRAFFIC BARRIERS IN DISTRICT 12. IF THE WIRE SUPPLIED DOES NOT EQUAL, SMOOTH SUITABLE TO INSTALL ALL RUNS SPLICE FREE, THE CONTRACTOR CAN ASK FOR MORE WIRE TO BE SUPPLIED BY THE DIVISION OF TRAFFIC OPERATIONS. THIS REQUEST SHALL GO THROUGH THE RESIDENT ENGINEER TO CENTRAL OFFICE DIVISION OF TRAFFIC OPERATIONS. EACH RUN OF WIRE FROM POLE TO POLE (UP EACH POLE) SHALL BE THE FOLLOWING COLOR CODES: 2-BLACK (HOT) AND GREEN (GROUND). THIS NOTE ONLY APPLIES TO BID CODES 23675EC AND 24474ED.

COUNTY OF _____ ITEM NO. _____ SHEET NO. _____

CONSTRUCTION AND MEASUREMENT NOTES THAT ARE CONTRARY TO SECTION 716 AND 834

SUBSECTION: 716.03.03 B TRENCHING - REMOVE ENTIRE FOURTH SENTENCE IN FIRST PARAGRAPH. NO PAYMENT FOR ADDITIONAL JUNCTION BOXES FOR GREATER DEPTHS WILL BE ALLOWED.

SUBSECTION: 716.04.01 POLE WITH SECONDARY EQUIPMENT. REPLACE THE READING WITH THE FOLLOWING: THE 104.07 POLE WITH SECONDARY CONTROL EQUIPMENT. REPLACE THE SECOND AND THIRD SENTENCE WITH THE FOLLOWING: THE DEPARTMENT WILL NOT MEASURE MOUNTING THE CABINET TO THE POLE. BACKFILLING, RESTORATION, ANY NECESSARY HARDWARE TO ANCHOR POLE, ELECTRICAL INSPECTION FEES, AND REQUIRED BUILDING FEES INVOLVING UTILITY SECONDARY, AND PRIMARY SERVICE FOR PAYMENT AND WILL CONSIDER THEM INCIDENTAL TO THIS ITEM OF WORK. THE DEPARTMENT WILL ALSO NOT MEASURE FURNISHING AND INSTALLING ELECTRICAL SERVICE CONDUITS, SPECIFIED CONDUITS, METER BASE, WOOD POLE, TRANSFORMER, SERVICE PANEL, FUSED CUTOFF FUSES, LIGHTING ARRESTORS, PHOTOELECTRICAL CONTROL, CIRCUIT BREAKER, CONTACT MANUAL SWITCH, GROUND RODS, GROUND LUGS, AND GROUND WIRES FOR PAYMENT AND WILL CONSIDER THEM INCIDENTAL TO THIS ITEM OF WORK. THE FILLING OF UNUSED HOLES WILL ALSO BE CONSIDERED INCIDENTAL TO THIS ITEM OF WORK.

SUBSECTION: 716.04.08 LIGHTING CONTROL EQUIPMENT. REPLACE THE PARAGRAPH WITH THE FOLLOWING: THE DEPARTMENT WILL MEASURE THE QUANTITY AS EACH INDIVIDUAL UNIT FURNISHED AND INSTALLED. THE DEPARTMENT WILL NOT MEASURE THE CONCRETE BASE, EXCAVATION, BACKFILLING, RESTORATION, ANY NECESSARY ANCHORS, ELECTRICAL INSPECTION FEES, AND REQUIRED BUILDING FEES INVOLVING UTILITY SECONDARY/PRIMARY SERVICE FOR PAYMENT AND WILL CONSIDER THEM INCIDENTAL TO THIS ITEM OF WORK. THE DEPARTMENT WILL ALSO NOT MEASURE FURNISHING AND INSTALLING ELECTRICAL SERVICE CONDUITS, SPECIFIED CONDUITS, METER BASE, WOOD POLE, TRANSFORMER, SERVICE PANEL, FUSED CUTOFF FUSES, LIGHTING ARRESTORS, PHOTOELECTRICAL CONTROL, CIRCUIT BREAKER, CONTACT MANUAL SWITCH, GROUND RODS, GROUND LUGS, AND GROUND WIRES FOR PAYMENT AND WILL CONSIDER THEM INCIDENTAL TO THIS ITEM OF WORK. THE DEPARTMENT WILL NOT MEASURE THE FILLING OF ANY UNUSED HOLES WITHIN AND WILL CONSIDER THEM INCIDENTAL TO THIS ITEM OF WORK.

SUBSECTION: 834.14.02 TRANSFORMER BASE. REMOVE SENTENCE: CONSTRUCT THE DOOR OF A HIGH DENSITY POLYETHYLENE MATERIAL IN COLOR THAT MATCHES THE BASE. REPLACE THE FOLLOWING SENTENCE WITH THE FOLLOWING: REPLACE THE DOOR OF AN ALUMINUM MATERIAL IN A COLOR THAT MATCHES THE BASE. THE DOOR SHOULD HAVE A THEFT DETERRENT DEVICE THAT IS EQUAL TO THE LOCKDOWN LIGHTLOCK DOOR ASSEMBLY. THE DOOR LOCK SHALL HAVE A LOCKING DEVICE WITH A KTC CUSTOM KEY THAT WILL BE SENT TO CENTRAL OFFICE TRAFFIC OPERATIONS FROM THE MANUFACTURER AND BE ISSUED TO THE CONTRACTOR FOR THE INSTALLATION OF THE FINAL DOOR DEVICE. THE KEY SHALL BE RETURNED TO CENTRAL OFFICE TRAFFIC OPERATIONS AFTER THE CLOSURE OF THE CONTRACT. THERE SHALL BE A 4" BY 6" ARC FLASH WARNING STICKER INSTALLED CENTER TOP OF EACH DOOR. THE STICKER SHALL BE METALCRAFT P-1599 PRESH STYLE MARK LABEL WITH .007 THICKNESS, WITH UV INK WITH POLYCARBONATE MATERIAL, AND WITH MCS3% PRESSURE SENSITIVE ADHESIVE. THE STICKER SHALL HAVE THE COLORS OF BLACK AND CUSTOM COLOR ORANGE. THE BONDING FOR THE ARC FLASH STICKER SHALL BE THE FOLLOWING: "WARNING: ARC FLASH HAZARD. APPROPRIATE PPE REQUIRED. FAILURE TO COMPLY CAN RESULT IN DEATH OR INJURY. REFER TO NFWA 70E."

DATE SUBMITTED: _____

Commonwealth of Kentucky
DEPARTMENT OF HIGHWAYS
COUNTY OF _____

PROJECT NUMBER: _____

ROADWAY LIGHTING ESTIMATES
BY: _____

DATE: 11/13/2017 10:58:30 AM

3-13-2017