

STATE	PROJECT NO.	YEAR	SHEET NO.	TOTAL SHEETS
KANSAS	472-85066	2014	155	388

SUMMARY OF ELECTRIC LIGHTING SYSTEM QUANTITIES (HARDWARE)

ITEM	UNIT	QUANTITY
SOLID STATE PHOTO CELL	EACH	
ENCLOSURE	EACH	
ABOVE GROUND JUNCTION BOX (12" X 12" X 6")	EACH	
CABLE CONNECTORS	EACH	
OZ EXPANSION JOINT	EACH	
CABLE SUPPORT GRIP	EACH	
600 VOLT 2/C SECONDARY CABLE WITH GROUND WIRE (IN DUCT) #4 A.W.G.	LIN FT	
600 VOLT 2/C SECONDARY CABLE WITH GROUND WIRE (IN DUCT) #6 A.W.G.	LIN FT	1,475
600 VOLT 1/C SECONDARY CABLE WITH GROUND WIRE #6 A.W.G.	LIN FT	
600 VOLT 1/C SECONDARY CABLE WITH GROUND WIRE #8 A.W.G.	LIN FT	
600 VOLT 1/C SECONDARY CABLE #10 A.W.G.	LIN FT	
GROUNDWIRE, #6 A.W.G.SOLID BARE COPPER	LIN FT	10
1" METALLIC CONDUIT	LIN FT	
2" METALLIC CONDUIT	LIN FT	225
3" METALLIC CONDUIT	LIN FT	
3" 90 DEGREE PVC CONDUIT BENDS 24" RADIUS	EACH	2
2" SCHEDULE 40 PVC	LIN FT	
3" SCHEDULE 40 PVC	LIN FT	
3" SCHEDULE 80 PVC	LIN FT	
3" 90 DEGREE SCHEDULE 40 PVC CONDUIT BENDS 36" RADIUS	EACH	
1" 90 DEGREE SCHEDULE 40 PVC CONDUIT BENDS 24" RADIUS	EACH	
3/8" x 3" WEDGE TYPE ANCHOR BOLTS	EACH	
ALUMINUM TRIPLEX #4 A.W.G. (AERIAL)	LIN FT	
2" CONDUIT CLAMPS W/ CLAMP BACKS	EACH	
GROUND RODS WITH CLAMPS 3/4" X 10'	EACH	1

SUMMARY OF ELECTRIC LIGHTING SYSTEM QUANTITIES (LIGHT STANDARDS)

ITEM	UNIT	QUANTITY
40' MOUNTING HEIGHT LIGHT STANDARD WITH 8' MASTARM	EACH	
40' MOUNTING HEIGHT LIGHT STANDARD WITH 10' MASTARM	EACH	
40' MOUNTING HEIGHT LIGHT STANDARD WITH 12' MASTARM	EACH	
40' MOUNTING HEIGHT LIGHT STANDARD WITH 15' MASTARM	EACH	
150 WATT LUMINAIRE, AUTO REGULATOR BALLAST, HIGH PRESSURE SODIUM	EACH	
150 WATT, 16,000 LUMEN, HIGH PRESSURE SODIUM, 24,000 LAMP HOUR	EACH	
FRANGIBLE BASE	EACH	
24" CONCRETE BASE FOR LIGHT STANDARD	EACH	
30" CONCRETE BASE FOR LIGHT STANDARD	EACH	

SUMMARY OF ELECTRIC LIGHTING SYSTEM QUANTITIES (MISCELLANEOUS ITEMS)

ITEM	UNIT	QUANTITY
TRENCH AND BACKFILL	LIN FT	1,250
REMOVAL OF CONCRETE BASE	EACH	

THE FOLLOWING COMPANIES HAVE A RAISE AND LOWERING DEVICE THAT HAS BEEN ACCEPTED BY THE KANSAS DEPARTMENT OF TRANSPORTATION : AMERICAN HIGH MAST, EAGLE HIGH MAST LIGHTING CO., CAROLINA HIGH MAST, METROLUX AND HALOPHANE. ADDITIONAL COMPANIES DESIRING APPROVAL BY THE KDOT MUST INSTALL ONE RAISE AND LOWERING DEVICE ON A POLE PROVIDED BY THE KDOT IN TOPEKA, OR ON ANOTHER POLE AS APPROVED. THE INSTALLATION WILL BE REVIEWED AND TESTED BY KDOT PRIOR TO APPROVAL ON THIS PROJECT. ALL ASSOCIATED COSTS WILL BE THE RESPONSIBILITY OF THE MANUFACTURERS/CONTRACTORS.

* EACH TOWER SHALL BE INSPECTED BY A FACTORY REPRESENTATIVE OF THE RAISE AND LOWER DEVICE MANUFACTURER PRIOR TO FINAL ACCEPTANCE OF THE PROJECT BY THE KANSAS DEPARTMENT OF TRANSPORTATION.

NOTE: LINEAR QUANTITIES ARE APPROXIMATE AND INCLUDED FOR INFORMATION ONLY. THE CONTRACTOR SHALL CONDUCT ALL WORK, AND FURNISH AND INSTALL ALL EQUIPMENT NECESSARY, TO INSURE COMPLETE AND SATISFACTORY OPERATION OF THE ELECTRIC LIGHTING SYSTEM WHETHER SPECIFICALLY MENTIONED OR NOT.

SUMMARY OF ELECTRIC LIGHTING SYSTEM QUANTITIES (TOWER)

ITEM	UNIT	QUANTITY
1000 WATT LUMINAIRE, PEAK LEAD AUTO TRANSFORMER BALLAST, METAL HALIDE, ASYMMETRIC	EACH	
1000 WATT LUMINAIRE, PEAK LEAD AUTO TRANSFORMER BALLAST, METAL HALIDE, SYMMETRIC	EACH	3
1000 WATT, 110,00 LUMEN, METAL HALIDE, VERTICAL BURNING, 12,000 HOUR LAMP	EACH	3
* RAISE AND LOWER DEVICE	EACH	1
1/2" HEAVY DUTY REVERSIBLE DRILL	EACH	1
STEP DOWN TRANSFORMER	EACH	1

BID ITEM

ITEM	UNIT	QUANTITY
ELECTRIC LIGHTING SYSTEM	L.S.	Lump Sum
HIGH MAST LIGHT TOWER (100')(36" CONCRETE BASE)	EACH	1
HIGH MAST LIGHT TOWER (110')(36" CONCRETE BASE)	EACH	
HIGH MAST LIGHT TOWER (120')(42" CONCRETE BASE)	EACH	
HIGH MAST LIGHT TOWER (100')	EACH	
HIGH MAST LIGHT TOWER (110')	EACH	
HIGH MAST LIGHT TOWER (120')	EACH	

NOTE: FOR ADDITIONAL CONSTRUCTION QUANTITIES, SEE THE FOLLOWING SHEETS, AS APPLICABLE:
 1. CONSTRUCTION AND MATERIAL REQUIREMENTS AND QUANTITIES FOR SIGN LIGHTING
 2. UNDERDECK LIGHTING DETAIL.
 3. FOOTING DETAILS & ENGINEERING GEOLOGY FOR FOOTING LENGTHS.

THE BID ITEM "HIGH MAST LIGHT TOWER" INCLUDES ALL WORK PERSONS, TOOLS, EQUIPMENT AND NEW HARDWARE NECESSARY TO COMPLETE THE WORK.

ITEMS NOT SPECIFICALLY CALLED OUT ARE SUBSIDIARY TO OTHER BID ITEMS.

Drawn By : cp
 File : I:\2009\09521\Standards\09521-te209.dgn
 Plotted : 30-DEC-2013 13:34

3	1/12/12	Chg'd Bid Items & Add 1" PVC Conduit	C.E.	B.D.G.
2	7/14/11	Change 250 Watts to 150 Watts	V.H.	B.D.G.
1	6/14/11	Changed 150 to 250 Watts	V.H.	B.D.G.
NO.	DATE	REVISIONS	BY	APP'D

KANSAS DEPARTMENT OF TRANSPORTATION				
CONSTRUCTION QUANTITIES FOR ELECTRIC LIGHTING SYSTEM				
TE209				
FHWA APPROVAL	12/15/2011	APP'D	Brlan D. Gower	
DESIGNED	V.H.	DETAILED	V.H.	QUANTITIES
DESIGN CK.	B.D.G.	DETAIL CK.	B.D.G.	QUAN. CK.
			TRACED	CK.