

STATE	PROJECT NO.	YEAR	SHEET NO.	TOTAL SHEETS
KANSAS	472-84639	2008	62	142

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	8
CABLE CONNECTORS	EACH	
ØZ 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	
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	1500
600 VOLT 1/C SECONDARY CABLE #10 A.W.G.	LIN FT	
GROUNDWIRE, #6 A.W.G. SOLID BARE COPPER	LIN FT	12
1" METALLIC CONDUIT	LIN FT	
2" METALLIC CONDUIT	LIN FT	
3" METALLIC CONDUIT	LIN FT	254
3" 90 DEGREE PVC CONDUIT BENDS 24" RADIUS	EACH	
2" SCHEDULE 40 PVC	LIN FT	1401
3" SCHEDULE 40 PVC	LIN FT	
2" 90 DEGREE SCHEDULE 40 PVC CONDUIT BENDS 36" RADIUS	EACH	9
3/8" X 3" WEDGE TYPE ANCHOR BOLTS	EACH	
PENE TREATED WOOD POLE	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	2

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	
100 WATT UNDERPASS LUMINAIRE, AUTO REGULATOR BALLAST, HIGH PRESS. SODIUM	EACH	4
100 WATT, 9,500 LUMEN, HIGH PRESSURE SODIUM, 24,000 LAMP HOUR	EACH	4
FRANGIBLE BASE (12 1/2" BOLT CIRCLE)	EACH	3
24" CONCRETE BASE FOR RELOCATED LIGHT STANDARD	EACH	3
SCREW IN BASE FOR LIGHT STANDARD	EACH	

SUMMARY OF ELECTRIC LIGHTING SYSTEM QUANTITIES (MISCELLANEOUS ITEMS)		
ITEM	UNIT	QUANTITY
TRENCH AND BACKFILL	LIN FT	1401
REMOVAL OF CONCRETE BASE	EACH	4

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.

SUMMARY OF ELECTRIC LIGHTING SYSTEM QUANTITIES (TOWER)		
ITEM	UNIT	QUANTITY
100' STEEL TOWER	EACH	
110' STEEL TOWER	EACH	
120' STEEL TOWER	EACH	
1000 WATT LUMINAIRE, PEAK LEAD AUTO TRANSFORMER BALLAST, METAL HALIDE, ASYMMETRIC	EACH	
1000 WATT LUMINAIRE, PEAK LEAD AUTO TRANSFORMER BALLAST, METAL HALIDE, SYMMETRIC	EACH	
1000 WATT, 110,000 LUMEN, METAL HALIDE, VERTICAL BURNING, 12,000 HOUR LAMP	EACH	
* RAISE AND LOWER DEVICE	EACH	
1/2" HEAVY DUTY REVERSIBLE DRILL	EACH	
STEP DOWN TRANSFORMER	EACH	
36" CONCRETE BASE FOR LIGHT TOWER	LIN FT	
42" CONCRETE BASE FOR LIGHT TOWER	LIN FT	

BID ITEM		
ITEM	UNIT	QUANTITY
ELECTRIC LIGHTING SYSTEM	L.S.	Lump Sum

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.

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.

3				
2	01/25/07	Change to ABOVE GROUND Junction Boxes	VH	CAL
1	04/09/04	Added Ground Wire to Service Cable	VH	CAL
NO.	DATE		BY	APP'D

KANSAS DEPARTMENT OF TRANSPORTATION
CONSTRUCTION QUANTITIES
FOR
ELECTRIC LIGHTING SYSTEM

DESIGNED	BY	DATE	APP'D	DATE
DESIGN CK.	CAL	08/06/03	LINDA G. VOSS	
QUANTITIES	BY	DATE	APP'D	DATE
QUAN. CK.	CAL			

Plotted By : dtp
Plot File : I:\2006\06655\COPYIES to CUT\elec\62-16209.dgn
Plot Date : 1/17/2008