• F.A.I. 72, F.A.P. 67, F.A.P. 75 & F.A.P. 668 •• D-6 SPFLD-CLRLAKE DIRKSEN 2002

68	F.A. SECTION		COUNTY		TOTAL SHEETS	SHEET NO.		
	•	••		SANGAMON		363	186	
	STA.		TO STA.					
	FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT							
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ILLINOIS DEPARTMENT OF TRANSPORTATION 400W LUMINAIRE PERFORMANCE TABLE (STAGGERED)

1/1/03

GIVEN CONDITIONS

ROADWAY DATA:	Pavement Width Number Of Lanes Median Width IES Surface Classification Q-Zero Value	24 2 41 R3 07
LIGHT POLE DATA:	Mounting Height Mast Arm Length Pole Set-Back From Edge Of Pavement	50 15 7
LUMINAIRE DATA:	Lamp Type Lamp Lumens IES Vertical Distribution IES Control Of Distribution IES Lateral Distribution Total Light Loss Factor	HPS 50,000 M FC 3 0.684
LAYOUT DATA:	Spacing Configuration Luminaire Overhang Over Edge Of Pavement Lane	240 Staggered

NOTE: Variations from the above specified IES distribution pattern may be requested and acceptance of variations will be subject to review by the Engineer based on how well the performance requirements are met.

PERFORMANCE REQUIREMENTS

NOTE: These performance requirements shall be the minimum acceptable standards of photometric performance for the luminaire, based on the given conditions listed above.

ILLUMINATION:	Average Horizontal Illumination, (E _{Ave}) Uniformity Ratio, (E _{Ave} /E _{Min})	1.3 fc 3.0
LUMINANCE:	Average Luminance: (L _{Ave}) Uniformity Ratios: (L _{Ave} /L _{Min}) (L _{Max} /L _{Min})	$\frac{0.9 \text{ cd/m}^2}{3.0}$ 5.0
	Maximum Veiling	

Luminance Ratio: (L/LAve)

LIGHTING GENERAL NOTES

- 1. ALL PROPOSED LIGHTING UNITS SHALL BE LABELED ACCORDING TO THE STANDARD SPECIFICATIONS, WITH POLE NUMBERS ATTACHED WITH STAINLESS STEEL BANDING. LIGHTING UNIT NUMBERING SHALL BE AS DIRECTED BY THE ENGINEER.
- 2. CONTRACTOR SHALL BE RESPONSIBLE TO COORDINATE ELECTRICAL WORK WITH OTHER TRADES.
- 3. THE PROPOSED LIGHT POLES SHALL BE INSTALLED, AS NOTED ON THE PLANS, OR AS DIRECTED BY THE ENGINEER. LIGHT POLE FOUNDATIONS SHALL BE INSTALLED PLUMB AND FLUSH WITH THE PROPOSED GRADE AND SHALL MEET THE HEIGHT REDUIREMENTS OF ARTICLE 836.03 OF THE STANDARD SPECIFICATIONS. AFTER UNIT DUCT IS INSTALLED, FOUNDATIONS SHALL BE FILLED WITH FINE AGGREGATE ACCORDING TO ARTICLE 836.03. A STAINLESS STEEL SCREEN SHALL BE INSTALLED TO SEAL THE OPENING BELOW THE POLE BASE FROM RODENT ENTRY.
- 4. THE PROPOSED LIGHT POLES SHALL BE POWDER COAT PAINTED BLACK.
- 5. CONTRACTOR SHALL INSTALL LIGHT POLES AT THE LOCATIONS INDICATED ON THE PLANS, MAINTAINING ADEQUATE CLEARANCE FROM OVERHEAD UTILITY LINES. CONTRACTOR SHALL BE RESPONSIBLE TO VERIFY CLEARANCES PER THE NATIONAL ELECTRICAL SAFETY CODE AND/OR THE REQUIREMENTS OF THE UTILITY COMPANIES, THE LOCATION OF BURIED AND ABOVE GROUND UTILITIES SHOWN ARE APPROXIMATE AND ARE SHOWN FOR INFORMATION ONLY. REROUTING, DISCONNECTION, RELOCATION, PROTECTION ETC., OF ANY UTILITIES MUST BE COORDINATED BETWEEN THE CONTRACTOR, UTILITY COMPANY, AND OWNER. THE CONTRACTOR SHALL VERIFY THE EXACT LOCATION OF ALL UNDERGROUND UTILITIES PRIOR TO CONSTRUCTION.
- 6. THE CONTRACTOR IS RESPONSIBLE FOR UNCOVERING OR HAND DIGGING AROUND UTILITIES AS NECESSARY. THE COST OF THIS WORK IS TO BE INCLUDED WITH THE *TRENCH AND BACKFILL FOR ELECTRICAL WORK* PAY ITEM.
- 7. ALL EXISTING LIGHT POLES SHALL OPERATE FROM DUSK TO DAWN DAILY FOR THE DURATION OF THIS PROJECT. SPECIFIC LIGHT POLES SHALL BE REMOVED OR RELOCATED PER THE PLANS BY THE CITY OF SPRINGFIELD (CWLP) DURING SPECIFIC STAGES OF CONSTRUCTION AS DIRECTED BY THE ENGINEER.
- 8. NO LIGHTING CIRCUIT OR PORTION THEREOF SHALL BE REMOVED FROM NIGHTIME OPERATION WITHOUT APPROVAL OF THE ENGINEER.

SUMMARY OF QUANTITIES

PAY CODE			QUANTITY
NUMBER	ITEM DESCRIPTION	UNIT	TOTAL
80409100	ELECTRIC SERVICE INSTALLATION	EACH	l i
8020600	CONDUIT PUSHED, 21/2" DIA, INTERMEDIATE METAL	FOOT	1065
81024900	CONDUIT PUSHED, 4" DIA. INTERMEDIATE METAL	FOOT	126
816 03000	- UNIT DUCT, 600V, 2-IC NO. 8, I/C NO. 8 GROUND, (XLP-TYPE USE), 7/4 DIA. POLYETHYLENE	FOOT	4574
81900200	TRENCH AND BACKFILL FOR ELECTRICAL WORK	FOOT	3198
82 02 400	LUMINAIRE, SODIUM VAPOR, HORIZONTAL MOUNT, 400 WATT	EACH	15
82/500/350	LIGHTING CONTROLLER, BASE MOUNTED, IOOAMP, 240VOLT	EACH	1
83004000	LIGHT POLE, ALUMINUM, 50 FT. M.H., 15 FT. DAVIT ARM	EACH	15
83600357	LIGHT POLE FOUNDATION METAL, IS' BOLT CIRCLE, 8"X8"	EACH	15
\$380065p		EACH	60
192106700	LUMINAIRE, SODUIM VAPOR, HORIZONTAL MOUNT, 400 WATT (MATERIAL ONLY	EACH	2
]/		EACH	

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DECATUR, ILLINOIS