

ILLINOIS DEPARTMENT OF TRANSPORTATION
LUMINAIRE PERFORMANCE TABLE

1/1/03

GIVEN CONDITIONS

ROADWAY DATA:	Pavement Width	<u>106</u>
	Number Of Lanes	<u>7</u>
	Median Width	<u>23</u>
	IES Surface Classification Q-Zero Value	<u> </u>
LIGHT POLE DATA:	Mounting Height	<u>50</u>
	Mast Arm Length	<u>15</u>
	Pole Set-Back From Edge Of Pavement	<u>15</u>
LUMINAIRE DATA:	Lamp Type	<u>HPS</u>
	Lamp Lumens	<u>51000</u>
	IES Vertical Distribution	<u>M</u>
	IES Control Of Distribution	<u>FC</u>
	IES Lateral Distribution	<u>3</u>
	Total Light Loss Factor	<u>0.684</u>
LAYOUT DATA:	Spacing	<u>275</u>
	Configuration	<u>Oppos</u>
	Luminaire Overhang Over Edge Of Pavement Lane	<u>0</u>

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})	<u>9.0</u>
	Uniformity Ratio, (E_{Ave}/E_{Min})	<u>3.0</u>
LUMINANCE:	Average Luminance: (L_{Ave})	<u>0.6</u>
	Uniformity Ratios: (L_{Ave}/L_{Min})	<u>3.5</u>
	(L_{Max}/L_{Min})	<u>6.0</u>
	Maximum Veiling Luminance Ratio: (L_v/L_{Ave})	<u>0.3</u>

GENERAL LIGHTING NOTES

- 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.
- EXISTING LIGHT POLES AND FOUNDATIONS TO BE REMOVED, AND ALL ASSOCIATED HARDWARE AND APPURTENANCES, SHALL NOT BE SALVAGED BUT SHALL BECOME THE PROPERTY OF THE CONTRACTOR AND SHALL BE DISPOSED OF OFF SITE AT THE CONTRACTOR'S EXPENSE.
- ALL NECESSARY MODIFICATIONS TO EXISTING TRAFFIC SIGNAL CONTROLLER TO FEED THE PROPOSED 400W HPS LUMINAIRES, INCLUDING ALL LABOR, HARDWARE, AND APPURTENANCES SHALL BE INCLUDED IN THE TRAFFIC SIGNAL WORK.
- CONTRACTOR SHALL BE RESPONSIBLE TO COORDINATE ELECTRICAL WORK WITH OTHER TRADES.
- 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.
- 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.

TEMPORARY LIGHTING NOTES

- ALL EXISTING LIGHT POLES SHALL OPERATE FROM DUSK TO DAWN DAILY FOR THE DURATION OF THIS PROJECT. REMOVE SPECIFIC LIGHT POLES DURING SPECIFIC STAGES OF CONSTRUCTION AS DIRECTED BY THE ENGINEER.
- NO LIGHTING CIRCUIT OR PORTION THEREOF SHALL BE REMOVED FROM NIGHTTIME OPERATION WITHOUT APPROVAL OF THE ENGINEER.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING THE LIGHTING SYSTEM UNTIL IDOT HAS TAKEN ACCEPTANCE OF THE SYSTEM. ALL EXISTING CIRCUITS AND CABLES TO THE LIGHT POLES SHALL BE MAINTAINED AS NEEDED AND THIS WORK SHALL BE INCIDENTAL TO THE CONTRACT.
- THE TEMPORARY LIGHTING UNITS, INCLUDING WOOD POLES AND AERIAL CABLE, SHALL BE REMOVED ONCE THE PROPOSED LIGHTING IS INSTALLED AND THE TEMPORARY LIGHTING IS NO LONGER NECESSARY. THE WOOD POLES, AERIAL CABLE, AND ALL ASSOCIATED HARDWARE SHALL BECOME THE PROPERTY OF THE CONTRACTOR AND SHALL BE DISPOSED OF OFF SITE AT THE CONTRACTOR'S EXPENSE.
- THE MINIMUM HEIGHT OF AERIAL CABLE SPANS SHALL BE 20 FEET ABOVE THE TOP OF PAVEMENT OR GRADE. ANY AERIAL CABLE SPANS SAGGING BELOW 20 FEET SHALL BE ADJUSTED AT NO ADDITIONAL COST.
- ALL RELOCATIONS AND ADJUSTMENTS TO TEMPORARY FACILITIES, INCLUDING EXISTING LIGHTING UNITS TO SERVE AS TEMPORARY LIGHTING, OR RECONNECTIONS OF THE TEMPORARY AERIAL CABLE DUE TO STAGING OR CONSTRUCTION SHALL BE MADE AT NO ADDITIONAL COST.
- POLES AND FACILITIES THAT ARE PERMANENT LIGHTING UNITS AND TO ALSO FUNCTION AS TEMPORARY LIGHTING SHALL BE CAREFULLY PROTECTED FROM DAMAGE. ANY DAMAGE SHALL BE CORRECTED AT THE CONTRACTOR'S EXPENSE.
- WOOD POLES SHALL BE GUYED AND ANCHORED AS INDICATED ON THE PLANS AND TO THE SATISFACTION OF THE ENGINEER. THE COST OF THIS WORK, INCLUDING ALL LABOR, EQUIPMENT, HARDWARE, AND ALL NECESSARY ADJUSTMENTS, SHALL BE INCLUDED IN THE "LIGHT POLE, WOOD, 60 FOOT, CLASS 3" PAY ITEM.



JOB = 2200.4	DESIGNED - NAK	REVISED -
FILE NAME = *FILES*	DRAWN - AJH	REVISED -
PLOT SCALE = *SCALE*	CHECKED - NAK	REVISED -
PLOT DATE = *DATE*	DATE - 11/6/2009	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

LIGHTING - IL 4 (VETERANS PARKWAY)

SCALE: SHEET NO. OF SHEETS STA. TO STA.

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
662	(2-1-2, 2-2) RS, TS-6	SANGAMON	244	170A
CONTRACT NO. 72B99				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				