



CIRCUIT 1

CONTROLLER #1 WIRING DIAGRAM

ILLINOIS DEPARTMENT OF TRANSPORTATION
LUMINAIRE PERFORMANCE TABLE
I-70 IL RELOCATED RTE 3 INTERCHANGE TRRA UNDERPASS LUMINAIRES

GIVEN CONDITIONS

ROADWAY DATA:	Pavement Width (Main Rail Line)	8 FT
	Number of Lanes	1
	Median Width	N/A
	IES Surface Classification (Calculated Ref)	R3
LIGHT POLE DATA:	0-Zero Value	0.07
	Mounting Height	23.67 FT
	Pole Set-Back from Edge of Pavement	N/A
	Aiming Angle	N/A
LUMINAIRE DATA:	Arm Length	N/A
	Lamp Type	HPS
	Lamp Lumens	9500
	IES Vertical Distribution	S
	IES Control Distribution	NC
LAYOUT DATA:	IES Lateral Distribution	4 (IV)
	Total Light Loss Factor	0.7
LAYOUT DATA:	Spacing	25.5 FT
	Configuration	2R_OPP
	Luminaire Overhang Over Edge of Pavement Lane	N/A

NOTE: Variations from the above specified IES distribution pattern may be requested and accepted 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})	1.0 FC
	Uniformity Ratio, (E _{Ave} /E _{Min})	3.0
LUMINANCE: (Target Values but not Specified)	Average Luminance: (L _{Ave})	0.6
	Uniformity Ratios: (L _{Ave} /L _{Min})	3.5
	(L _{Max} /L _{Min})	6.0
LUMINANCE:	Maximum Veiling	
	Luminance Ratio: (L _v /L _{Ave})	0.3

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
RELOCATED ILLINOIS ROUTE 3

CONTROLLER WIRING DIAGRAM / LUMINAIRE PERFORMANCE TABLE

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
998	82-2-1HVB-1	ST. CLAIR	345	121
CONTRACT NO. 76D05				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				

FILE NAME =	USER NAME = #USER#	DESIGNED - FSM	REVISED -
*FILEL#		DRAWN - MNR	REVISED -
ABNA ENGINEERING INC. PROFESSIONAL ENGINEERS EAST ST. LOUIS, ILLINOIS		CHECKED - AAB	REVISED -
		DATE - 5/13/11	REVISED -

SCALE: SHEET NO. 1 OF 1 SHEETS STA. TO STA.