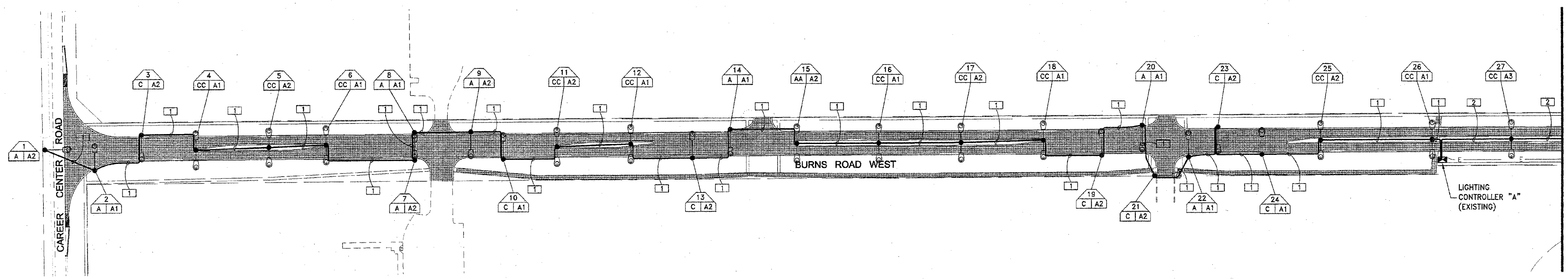
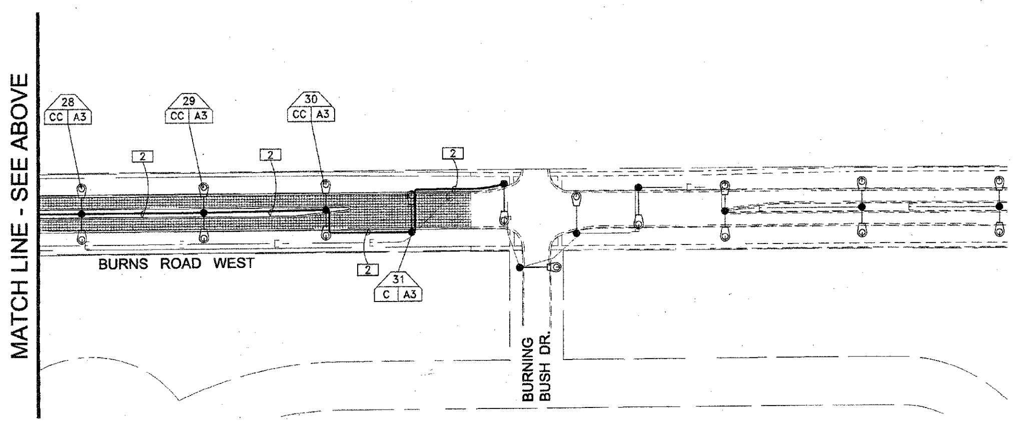




ILLINOIS DEPARTMENT OF TRANSPORTATION LUMINAIRE PERFORMANCE TABLE

GIVEN CONDITIONS

ROADWAY DATA:	Pavement Width	13.5 FT
	Number Of Lanes	1
	Median Width	11 FT
	IES Surface Classification	R3
	Q-Zero Value	.07
LIGHT POLE DATA:	Mounting Height	33 FT
	Mast Arm Length	10 FT
	Pole Set-Back From Edge Of Pavement	5.5 FT
LUMINAIRE DATA:	Lamp Type	HPS
	Lamp Lumens	16000
	IES Vertical Distribution	M
	IES Control Of Distribution	C
	IES Lateral Distribution	2
	Total Light Loss Factor	0.684
LAYOUT DATA:	Spacing	165 FT
	Configuration	MEDIAN
	Luminaire Overhang Over Edge Of Pavement Lane	2.5 FT

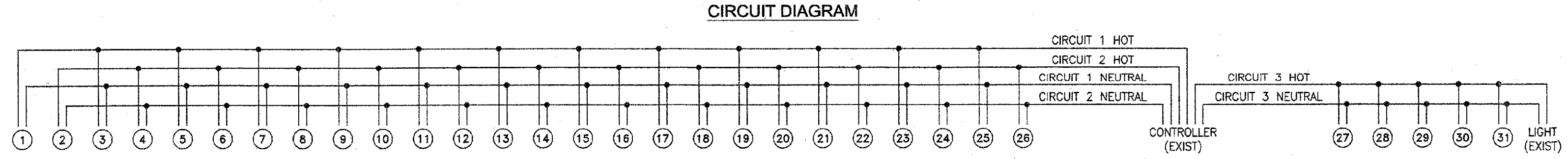
NOTE: Variations from the above specified IES distribution pattern may be requested and acceptance of variations will be subject to review by the Engineer based on how well the performance requirements are met.

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})	6 Lux
	Uniformity Ratio, (E_{Ave}/E_{Min})	4
LUMINANCE:	Average Luminance: (L_{Ave})	0.4 Cd/m^2
	Uniformity Ratios: (L_{Ave}/L_{Min})	4.0
	(L_{Max}/L_{Min})	8.0
	Maximum Veiling Luminance Ratio: (L_v/L_{Ave})	0.4

CIRCUIT DIAGRAM



LUMINAIRE SCHEDULE

SYMBOL	QTY	LABEL	ARRANGEMENT	DESCRIPTION	LAMP WATTAGE	ARM LENGTH	MOUNTING HEIGHT
single	8	A	SINGLE	HBS-250HPS-MC2	ONE (1) 250W	10'	33'
	8	C	SINGLE	HBS-150HPS-MC2	ONE (1) 150W	10'	33'
back-back	1	AA	BACK-BACK	HBS-250HPS-MC2	TWO (2) 250W	10'	33'
	14	CC	BACK-BACK	HBS-150HPS-MC2	TWO (2) 150W	10'	33'

CONTROLLER: A				
VOLTAGE: 240/120V, 1 PHASE, 3 WIRE				
MAINS: 100A MAIN BREAKER				
CONTACTOR: 100A/2P				
22KAIC SERIES RATED				
MOUNTING: GROUND, 59"H X 44"W X 27'D (NOM)				
FEEDER: 1-1/4"C-3#3				
CKT NO.	LOAD DESCRIPTION	C/B	LOAD VA L1	LOAD VA L2
1	LTS: POLES 26,24,22,20,18	30A/2P	2520	
	16,14,12,10,8,6,4,2			2520
2	LTS: POLES 25,23,21,19,17	30A/2P	2515	
	15,13,11,9,7,5,3,1			2515
3	LTS: POLES 27-38*	30A/2P	2376	
				2376
4	–	–	–	
	–	–		–
5	–	–	–	
	–	–		–
6	–	–	–	
	–	–		–
TOTAL KVA PER PHASE			7.4	7.4
TOTAL (KVA)			14.8	
MAX AMPS			62	

*PROPOSED POLES 27-30
EXISTING POLES 31-38

GENERAL NOTES:

1. ALL LIGHTING FIXTURES ARE 240VAC.
2. ALL LAMPS ARE HIGH PRESSURE SODIUM.

ELECTRIC CABLE IN CONDUIT SCHEDULE

TAG	CONDUIT	LTG WIRE	GRD WIRE
1	2" PVC	4#2	1#2
2	2" PVC	2#4	1#4

SYMBOL LEGEND

LUMINAIRE LABEL — 26 / CC A1 — STREET LIGHT POLE # SEE PLANS; CONTROLLER & LIGHTING CIRCUIT #

— ELECTRIC CABLE IN CONDUIT TAG#

NOTES:
1. SEE PLAN SHEET 10 FOR LIGHT POLE FOUNDATION STATIONS AND OFFSET INFORMATION.
2. CONDUIT UNDER ROADWAY SHALL BE SCH. 80.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
*	**	KANKAKEE	36	19

CONTRACT NO. 87315

FED. ROAD DIST. NO. | ILLINOIS | FED. AID PROJECT

* BURNS ROAD WEST – FAU 6212
** 03-00058-01-FP

TYSON ENGINEERING, INC.
CONSULTING CIVIL ENGINEERS
LAND SURVEYORS
DESIGN FIRM LICENSE #184-001136
367 SOUTH SCHUYLER AVENUE
KANKAKEE, ILLINOIS 60901
PHONE (815) 932-7406

REVISIONS

NO.	DATE	BY	DESCRIPTION

LIGHTING INSTALLATION DETAILS

PROJECT: PROPOSED IMPROVEMENTS FOR **BURNS ROAD WEST** FROM CAREER CENTER ROAD TO BURNING BUSH DRIVE

SECTION 03-00058-01-FP

DATE: 3/23/12 | JOB NO. E05055
SCALE: HORZ.: 1"=100' VERT.: N/A | FILE NO.
DRAWN BY: MRG | SHEET 19 / 36
CHECKED BY: SRM