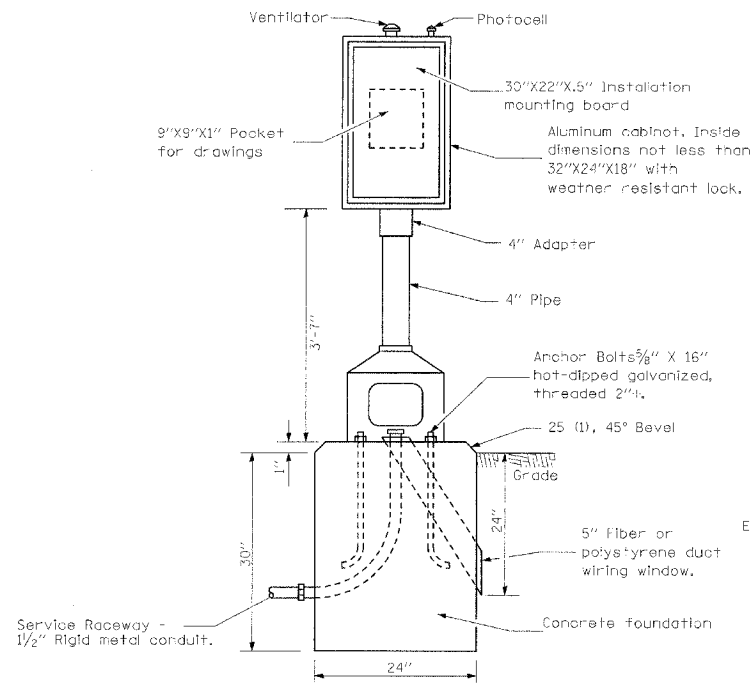
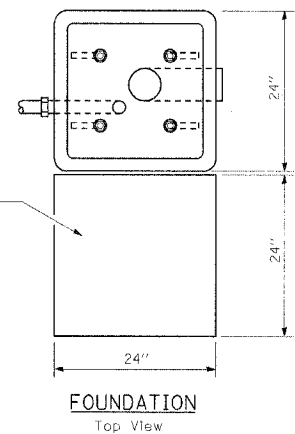


F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
642	99-00124-02-PV	COLES	229	80
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	

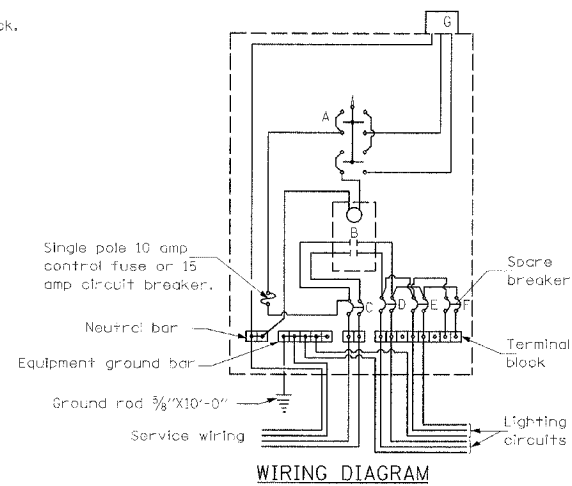


CONTROL INSTALLATION
Front View



FOUNDATION
Top View

- A Selector switch
- B 2 Pole 60 amp contactor
- C 2 Pole 60 amp service disconnect
- D,E,F 2 Pole 15 amp breakers
- G Photocell w/integral surge arrester



WIRING DIAGRAM

GENERAL NOTES

Locate service pole and control installation adjacent to R.O.W. line with a minimum distance of 30' from the edge of pavement. Exact location shall be established by the Engineer.

The underground service entrance wiring shall not exceed 150'. Total aerial and underground service between the control installation and primary transformer shall not exceed 250'.

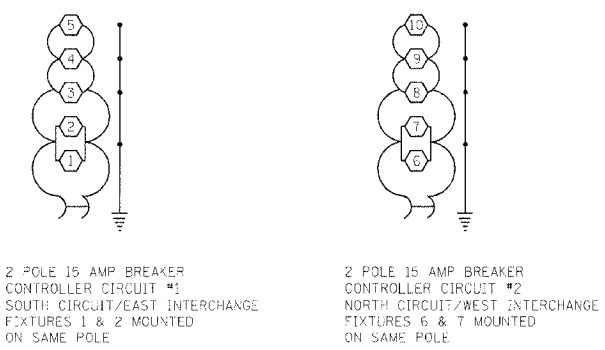
For 480 V. systems, a 480/120 V. control transformer will be required.

Where soil conditions permit, and where approved by the Engineer, a 6" dia. x 5'-0" long metal screw in foundation may be used in lieu of a concrete foundation.

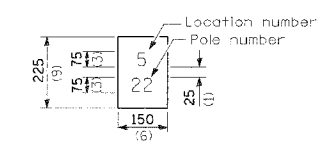
All dimensions are in millimeters unless otherwise shown.

CONTROL INSTALLATION
TYPE CB-RCS-60

(same for both circuits)



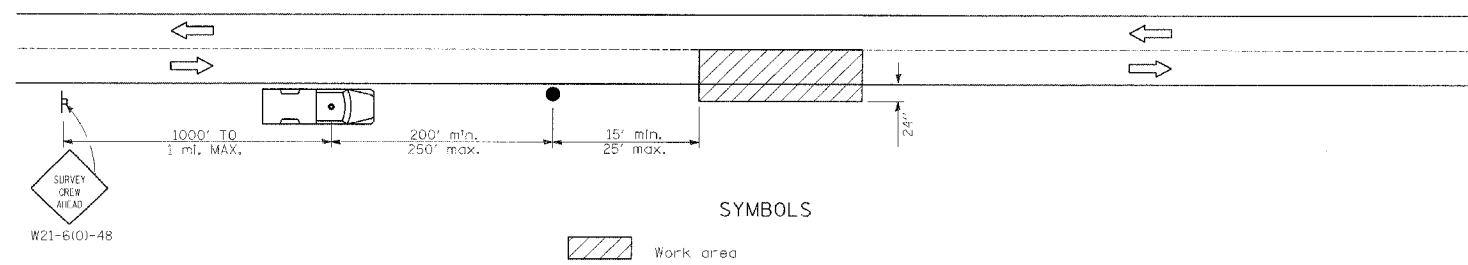
CIRCUIT DIAGRAM



The contractor shall furnish and install a light pole identification of each new light pole, as shown above, incidental to the respective light pole pay item. The numerals shall be 75 (3) series "D", block, screened on silver-white type B pressure sensitive reflective sheeting conforming to the requirements of section T602.01 of the Standard Specifications for Traffic Control Items. The numerals shall conform to the FHWA "Standard Alphabets for Highway Signs".

The light pole identification shall be applied to sign base material as specified in section 1085.05 of the Standard Specifications, approximately 180 (7) above the adjacent pavement grade visible to approaching traffic in accordance with Highway Standard 2319.

ILLINOIS DEPARTMENT OF TRANSPORTATION LUMINAIRE PERFORMANCE TABLE		
GIVEN CONDITIONS		
ROADWAY DATA:	Pavement Width	24 FT
	Number of Lanes	2
	Median Width	N/A FT
	IES Surface Classification	R3
	Q-Zero Value	.07
LIGHT POLE DATA:	Mounting Height	43 FT
	Mast Arm Length	0 FT
	Pole Set-Back From Edge Of Pavement	32 FT
LUMINAIRE DATA:	Lamp Type	250W HPS
	Lamp Lumens	28,000
	IES Vertical Distribution	L
	IES Control Of Distribution	NON-CUTOFF
	IES Lateral Distribution	3
	Total Light Loss Factor	0.684
LAYOUT DATA:	Spacing	220 FT
	Configuration	1 SIDE ONLY
	Luminaire Overhang Over Edge Of Pavement Lane	N/A
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	0.9 FC
	Uniformity Ratio: (Eave/EMin)	3.0
LUMINANCE:	Average Luminance: (Lave)	0.6 Cd/m2
	Uniformity Ratios: (Lave/LMin)	3.5
	(LMax/LMin)	6
	Maximum Veiling Luminance Ratio: (Lv/Lave)	0.3



SYMBOLS

- Work area
- Sign on portable or permanent support
- Truck with flashing amber light and dual emergency flashers
- Flagger with traffic control sign

TYPICAL APPLICATIONS
Utility operations

DETAIL FOR NIGHTTIME LIGHTING INSPECTION

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
INTERCHANGE LIGHTING PLANS
AND DETAILS
FAI-57, FAS 642
SEC NO. 15-23K, 99-00124-02-PV
COLES COUNTY, ILLINOIS

SCALE: VERT. HORIZ.
DATE 10/05/2005
DRAWN BY TRC
CHECKED BY JPT