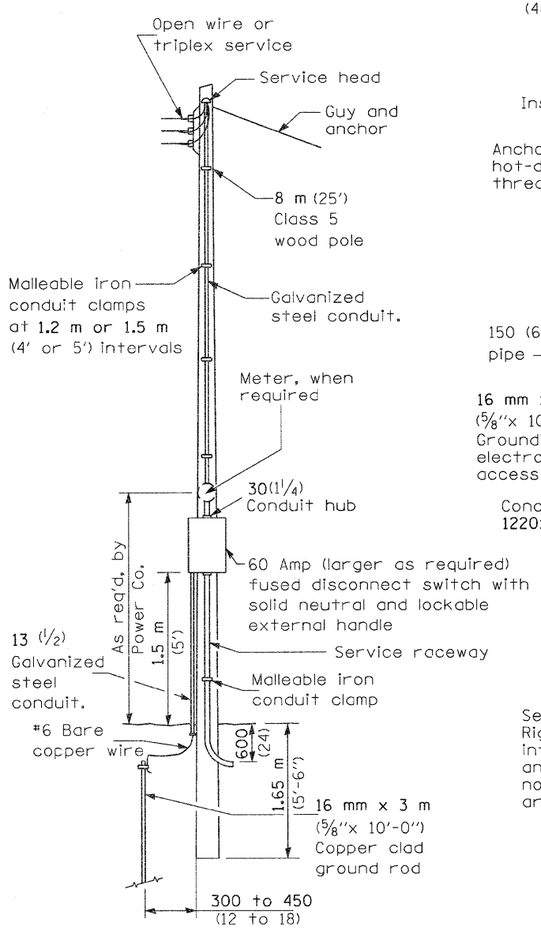
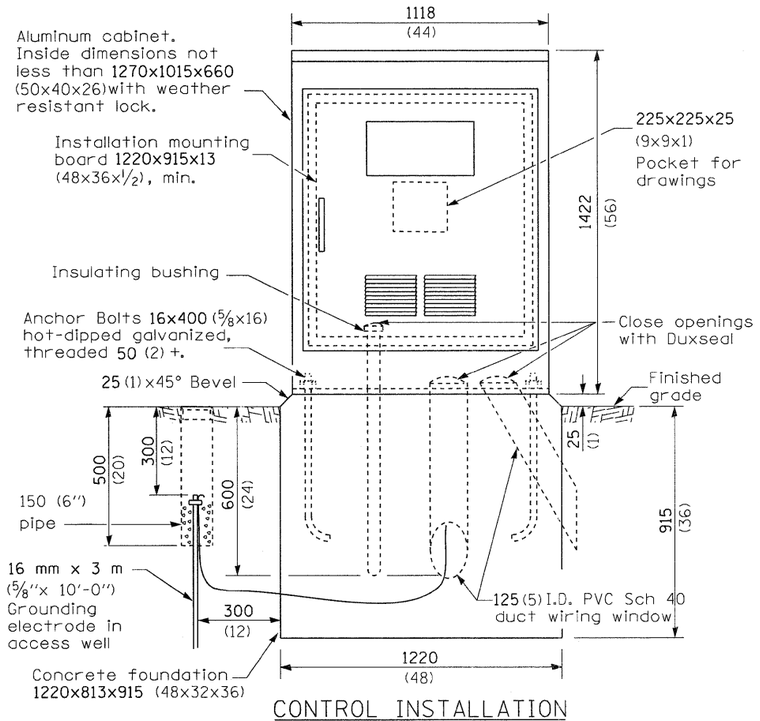
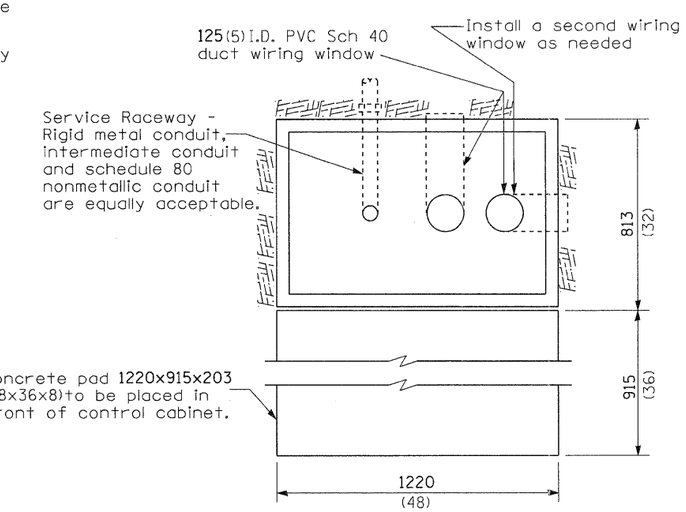


SERVICE POLE



CONTROL INSTALLATION

(FRONT VIEW)

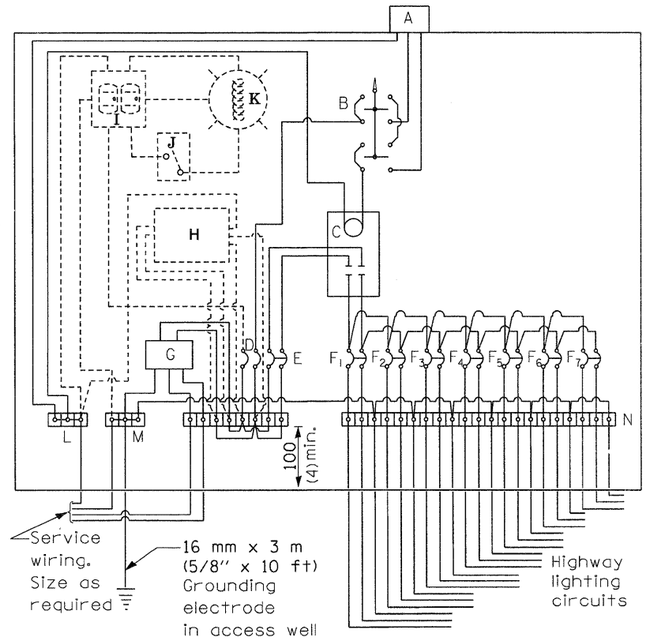


FOUNDATION

(TOP VIEW)

CONTROLLER 3 NOTES:

1. The contactor in controller 3 shall be rated 150 amp.



CONTROL SCHEMATIC CONTROLLER #3

MATERIALS

- A Photocell w/ integral surge arrester (remote mount in urban areas)
- B 3 position selector switch HAND-OFF-AUTO
- C 100 amp* electrically held contactor, 120V operating coil
- D 15 amp, 1 pole, circuit breaker
- E 100 amp*, 2 pole, main circuit breaker
- F 30 amp*, 2 pole, branch circuit breaker (typ). 1 spare c.b. required, not shown
- G Surge arrestor
- H Transformer (see notes), 1 KVA*, 240/480V primary, 120/240V sec, single phase
- I GFCI duplex receptacle
- J Single pole, single throw switch
- K Shielded security fixture with 100W lamp
- L Neutral bar
- M Equipment ground bar
- N Terminal block (typ)

(* = Size larger as needed)

GENERAL NOTES

1) This drawing depicts the basic configuration of the lighting controller. Branch circuit breakers shall be provided and oriented as required by the plan sheets and details.

2) Locate service pole and control installation adjacent to R.O.W. line with a minimum distance of 9 m (30') from the edge of pavement. Locate in close proximity to the utility transformer so the service drop does not exceed 46 m (150ft) and the total distance of overhead and underground cable (utility transformer to lighting controller) does not exceed 76 m (250ft). Exact location shall be established by the Engineer.

3) Wiring shall be panel board fashion. All bends shall be right angles. All runs shall be vertical or parallel to panel board. Wires shall be grouped or laced.

4) All control installation components shall be U.L. listed.

5) Add receptacle, light, and switch in control cabinet.

6) For 480 V service, a step down transformer (dashed lines) is required.

7) Raceways shall terminate 75 mm (3 in.) above top of concrete foundation.

8) Label equipment ground buss and neutral buss.

☐ 240 V. SERVICE

☒ 480 V. SERVICE

All dimensions are in millimeters (inches) unless otherwise shown.

FILE NAME = $FILE1$	USER NAME = $USER$	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	CONTROL INSTALLATION INTERSTATE 270
ABNA engineering		DRAWN -	REVISED -		
	PLOT SCALE = $SCALE$	CHECKED -	REVISED -		
	PLOT DATE = $DATE$	DATE 3/18/11	REVISED -		SCALE: SHEET NO. 6 OF 10 SHEETS STA. TO STA.

FAI	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
270	60-1B-1	MADISON	712	344
		CONTRACT NO. 76A91		
	ILLINOIS FED. AID PROJECT			