Parts List and Specifications Advance Flasher Assembly Installed by Outside Party

- 1. One, twelve (12) inch black signal head with post mount hardware and 12" yellow LED indication, five (5) inch black back plate, tunnel visor and hardware.
- 2. One, four and one-half (4-1/2) inch outside diameter pedestal post and pedestal base. Length of post is to be determined as needed to meet dimensions on the attached drawing. The horizontal distance of the post from the pavement shall be as per the attached drawings.
- 3. One Type C concrete base.
- 4. Minimum two inch (2") rigid conduit.
- 5. Signs and mounting brackets supplied by the Missouri Highway and Transportation Commission.
- 6. One fused slip connector assembly required on each control or power cable conductor in the base of the post. If control enclosure is on the post, the fuse shall be 15 amps, if the control enclosure is remote, the fuse shall be 3 amps.
- 7. Wiring shall be as follows (120 Volt Systems):

Control Wires From Control Equipment to Beacon

Max. Length of Wire Run	<u>Min. Cable Size</u>		
1100 Feet 1850 Feet 2830 Feet	#12 AWG #10 AWG #8 AWG		

Power Cables From Power Source to Control Enclosure

Max. Length of Wire Run	<u>Min. Cable Size</u>	
1220 Feet	#8 AWG	
1950 Feet	#6 AWG	

8. One NEMA 4 aluminum or stainless steel enclosure that contains the necessary equipment to operate the beacon as shown on the attached wiring diagram specified by the Commission. The enclosure shall be of sufficient size to house all specified equipment. The control enclosure shall be mounted on the control pedestal or on the sign post as specified by the Commission. If the control enclosure is mounted on the sign post, it shall be mounted on the reverse side and accessible from ground level.

If specified in the agreement, contact MoDOT representative for approval and programming of a special event.

- 9. The power will be provided by the outside party, by a separate power drop to the control pedestal with the meter installed on the control pedestal as approved by the Commission or a 12 Volt DC solar system.
 - For 120 Volt power sources, a separate disconnect enclosure shall be provided on the control pedestal. The control pedestal shall be located as close to the right-of-way as possible or, if the power source is on the right-of-way, as close to the power source as possible. Also the meter and power disconnect breaker box shall not be located on the flasher post. The power disconnect breaker shall be located within the right of way as close to the right of way line as possible.
 - For 12 Volt DC solar systems, an 80W (Watt) or greater solar panel and a 100ah (amp hour) or greater battery is required.
- 10. All applicable equipment shall conform to the Missouri Department of Transportation applicable Standard Specifications and Standard Plans.

An equipment list of proposed items to be used and a layout of the entire installation shall be submitted to the engineer for approval before ordering equipment. All equipment to be maintained by the Commission shall be located on the right-of-way.

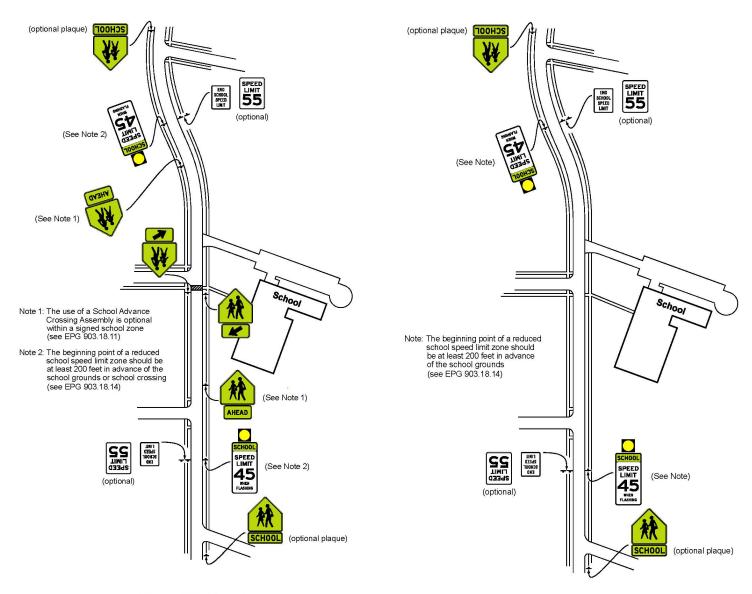


Figure 903.18.14.1 Example of Signing for a School Zone with a School Speed Limit and a School Crossing

Figure 903.18.14.2 Example of Signing for a School Speed Limit

Note: Location of school flasher and school signing is to be determined by MoDOT personnel as per EPG 903.19 Signing for School Areas

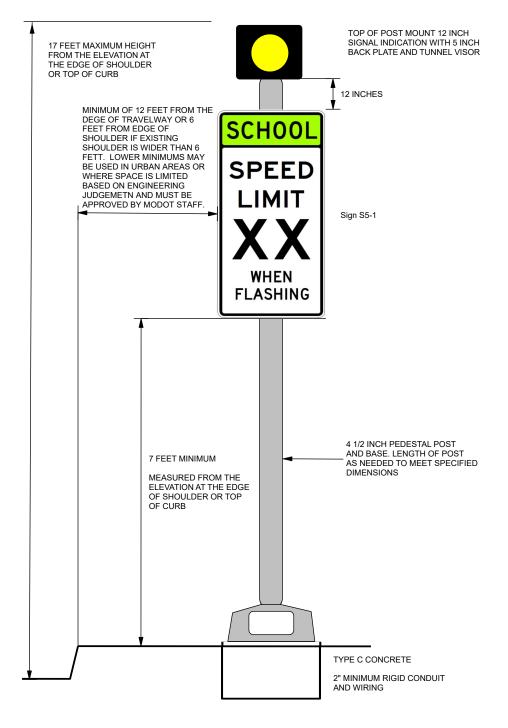
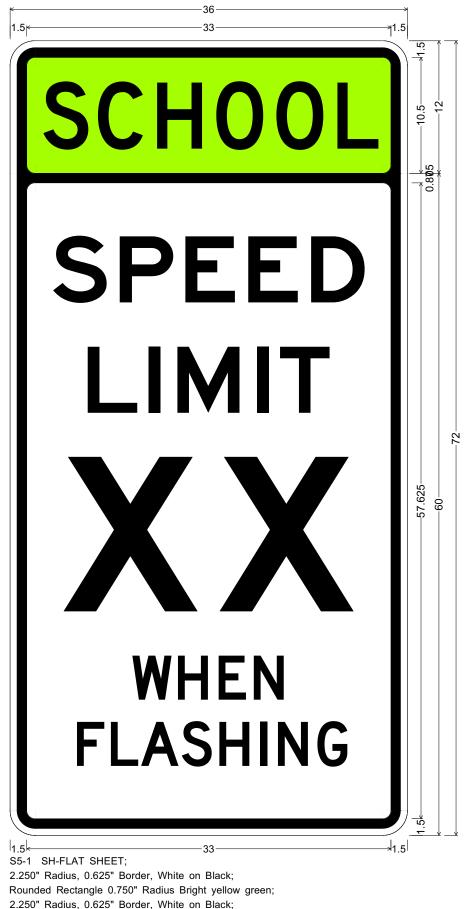
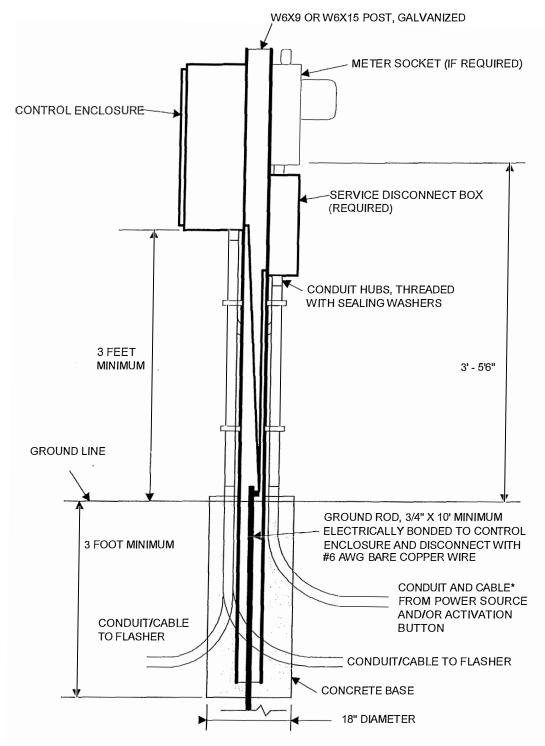


Figure 3: ADVANCE FLASHER WITH WARNING SIGN OR SPEED LIMIT



Rounded Rectangle 0.750" Radius;

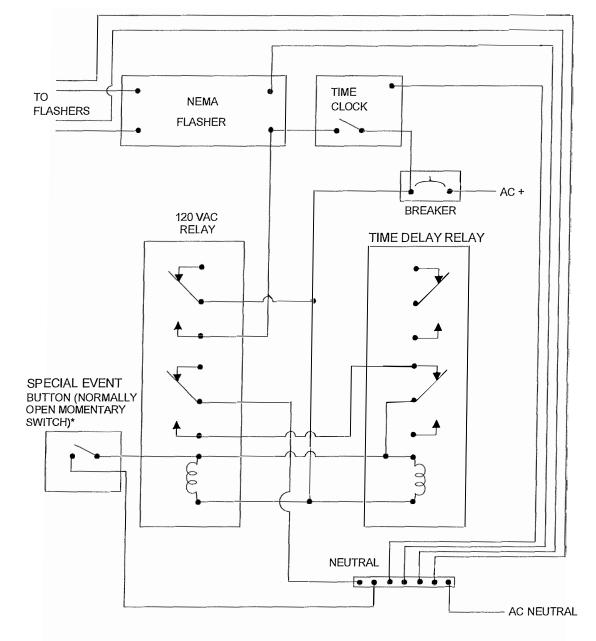


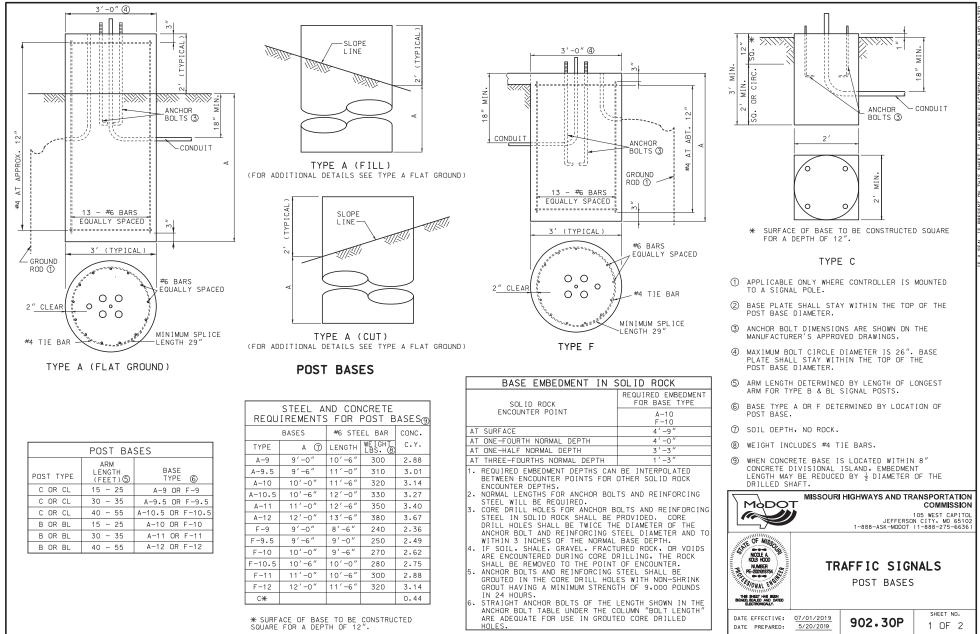
* IF POWER SOURCE IS THE UTILITY COMPANY, MINIMUM 2" RIGID STEEL CONDUIT CONTROL PEDESTAL FOR ADVANCE FLASHER

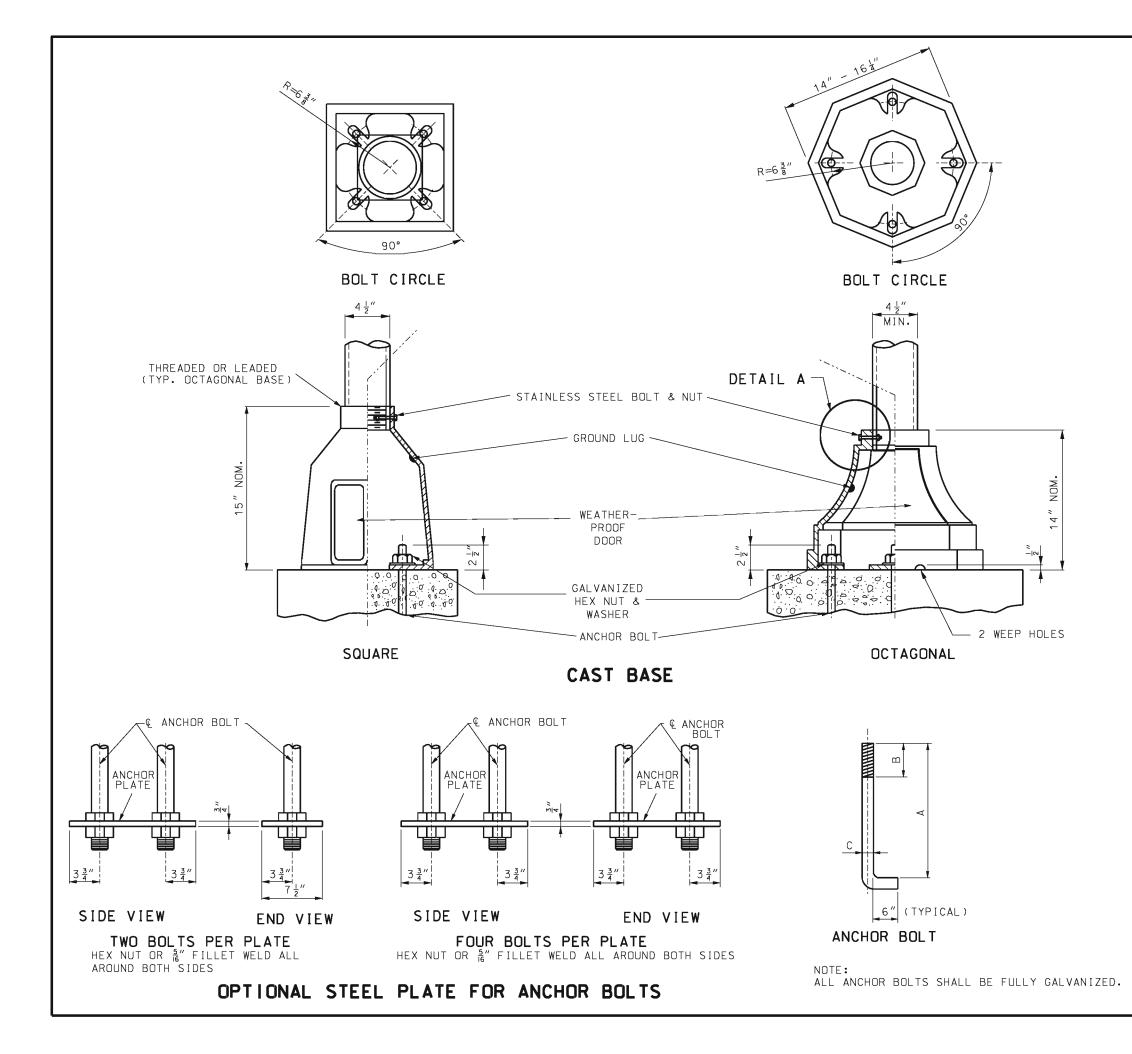
WIRING DIAGRAM FOR ADVANCE FLASHER -TIME CLOCK ACTIVATION

1

RELAYS - 8 PIN OCTAL BASE WITH MINIMUM 5 AMP CONTACTS TIME DELAY RELAY - SSAC INC. TUD 120VAC OR EQUIVALENT ALL WIRING SHALL BE #12 AWG MINIMUM BREAKER - 15 AMP TIME CLOCK SHALL CONFORM TO APPLICABLE STANDARD SPECIFICATIONS AND THE APPROVED PRODUCTS LIST







MaDO	MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION			
		105 WEST CAPITOL JEFFERSON CITY, MO 65102 1-888-ASK-MODDT (1-888-275-6636)		
HE OF MUSS KATHRN PHILIPS HARVEY PE-23751 BONAL THIS BRET HAS BEEN SKNED SEALD AND DATED ELECTRONICALLY.	TRAFFIC SIGNALS POST BASES			
ATE EFFECTIVE: ATE PREPARED:	02/01/2008 8/26/2009	902.30P	SHEET NO. 2 OF 2	

BOL T LENGTH	VERT. HT. A	THREAD LEN. B	DIA. C
INCHES	INCHES	INCHES	INCHES
19	17	1.50	0.625
57	51	7.00	1.250
79	73	7.50	1.500
94	88	8.00	1.750
121	115	8.50	2.000
120	114	9.00	2.250
146	140	9.50	2.500

DETAIL A

