



~ NOTES ~

1. AUTOMATED FLAGGER ASSISTANCE DEVICES (AFADS) SHALL CONFORM TO CHAPTER 6E OF THE MUTCD.
2. AFADS SHALL BE OPERATED BY A SINGLE FLAGGER IF THE FLAGGER HAS AN UNOBSTRUCTED VIEW OF BOTH AFADS AND APPROACHING TRAFFIC IN BOTH DIRECTIONS OR BY SEPARATE FLAGGERS NEAR EACH DEVICE'S LOCATION. FLAGGER(S) OPERATING AFADS SHALL NOT LEAVE THEM UNATTENDED AT ANY TIME WHILE AFADS ARE BEING USED.
3. WHEN AFADS ARE USED AT NIGHT, THEIR LOCATION SHALL BE ILLUMINATED IN ACCORDANCE WITH SECTION 6E.08 OF THE MUTCD.
4. WHEN THE AFAD IS NOT IN USE, THE SIGNS ASSOCIATED WITH THE AFAD, BOTH AT THE AFAD LOCATION AND IN ADVANCE, SHALL BE REMOVED OR COVERED.
5. FOR AFADS THAT ARE POST-MOUNTED, THE BOTTOM OF THE SIGNAL HOUSING SHALL BE AT LEAST 7 FEET ABOVE THE PAVEMENT. FOR OVERHEAD INSTALLATIONS, THE BOTTOM OF THE SIGNAL HOUSING SHALL BE AT LEAST 15 FEET ABOVE THE PAVEMENT.
6. WHEN THE ARM OF THE AFAD IS IN THE DOWN POSITION BLOCKING THE APPROACH LANE, THE ARM SHALL REACH AT LEAST TO THE CENTER OF THE LANE BEING CONTROLLED.
7. THE STEADY CIRCULAR YELLOW CHANGE INTERVAL SHOULD HAVE A DURATION OF AT LEAST 5 SECONDS.
8. DRUMS SHALL BE USED IN LIEU OF CONES IF CLOSURE EXTENDS INTO NIGHTTIME HOURS. GRABBER CONES MAY BE USED IN LIEU OF DRUMS IF THE USE OF DRUMS WOULD RESULT IN LANES THAT ARE TOO NARROW OR AN UNACCEPTABLE SITUATION BASED ON ENGINEERING JUDGMENT.
- ⑨ SIGN NO. 1 SHOULD BE INSTALLED AT THE LIMITS OF THE PROJECT WHEN THE CONSTRUCTION ZONE IS LONGER THAN TWO MILES IN LENGTH. THE DISTANCE SHOWN SHALL BE STATED TO THE NEAREST WHOLE MILE.
- ⑩ TAPERS SHALL BE 50' (MIN) TO 100' (MAX) IN LENGTH. SPACING OF CHANNELIZING DEVICES SHOULD BE 20' THRU THE TAPER AREAS.
- ⑪ BUFFER SPACE (OPTIONAL). IF USED, THE BUFFER SPACE SHOULD BE EXTENDED SO THAT THE TWO-WAY TRAFFIC TAPER IS PLACED BEFORE A HORIZONTAL OR CREST VERTICAL CURVE TO PROVIDE ADEQUATE SIGHT DISTANCE FOR THE AFAD AND A QUEUE OF STOPPED VEHICLES. REFER TO TABLE 6C-2 OF THE MUTCD FOR GUIDANCE ON BUFFER SPACE LENGTH.
- ⑫ SPACING OF CHANNELIZING DEVICES THRU THE ACTIVITY AREA SHOULD BE 80'. ON ROADWAYS WITH WIDTHS LESS THAN 20 FEET, CHANNELIZING DEVICES MAY BE OMITTED THRU THE ACTIVITY AREA BASED ON ENGINEERING JUDGMENT.

LEGEND

- FLAGGER
- ⊥ SIGN
- DRUMS/CONES
- ▬ AFAD WITH RECOMMENDED GATE AND TWO-SECTION SIGNAL FACE

BID ITEMS AND UNIT TO BID
 AFAD EACH
 LANE CLOSURE EACH
 REFER TO SECTION 112 OF STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, CURRENT EDITION.

ROAD TYPE	A	B	C
SP. LT. ≥ 45 MPH*	500'	500'	500'
SP. LT. ≤ 40 MPH*	250'	250'	250'

*NOTE: USE NORMAL POSTED SPEED LIMIT

SIGN	CONVENTIONAL	EXPRESSWAY/FREEWAY
2, 3, AND 4	36" X 36"	48" X 48"
1 AND 6	36" X 18"	48" X 24"
5	24" X 36"	36" X 48"

DRAWING NOT TO SCALE

KENTUCKY
 DEPARTMENT OF HIGHWAYS

AUTOMATED FLAGGING
 ASSISTANCE DEVICES
 RED/YELLOW LENS

STANDARD DRAWING NO. TTC-165

SUBMITTED BY *B. Allen Wolf* DATE 02-26-20
DIRECTOR DIVISION OF TRAFFIC OPERATIONS

APPROVED BY *[Signature]* DATE 02-26-20
STATE HIGHWAY ENGINEER