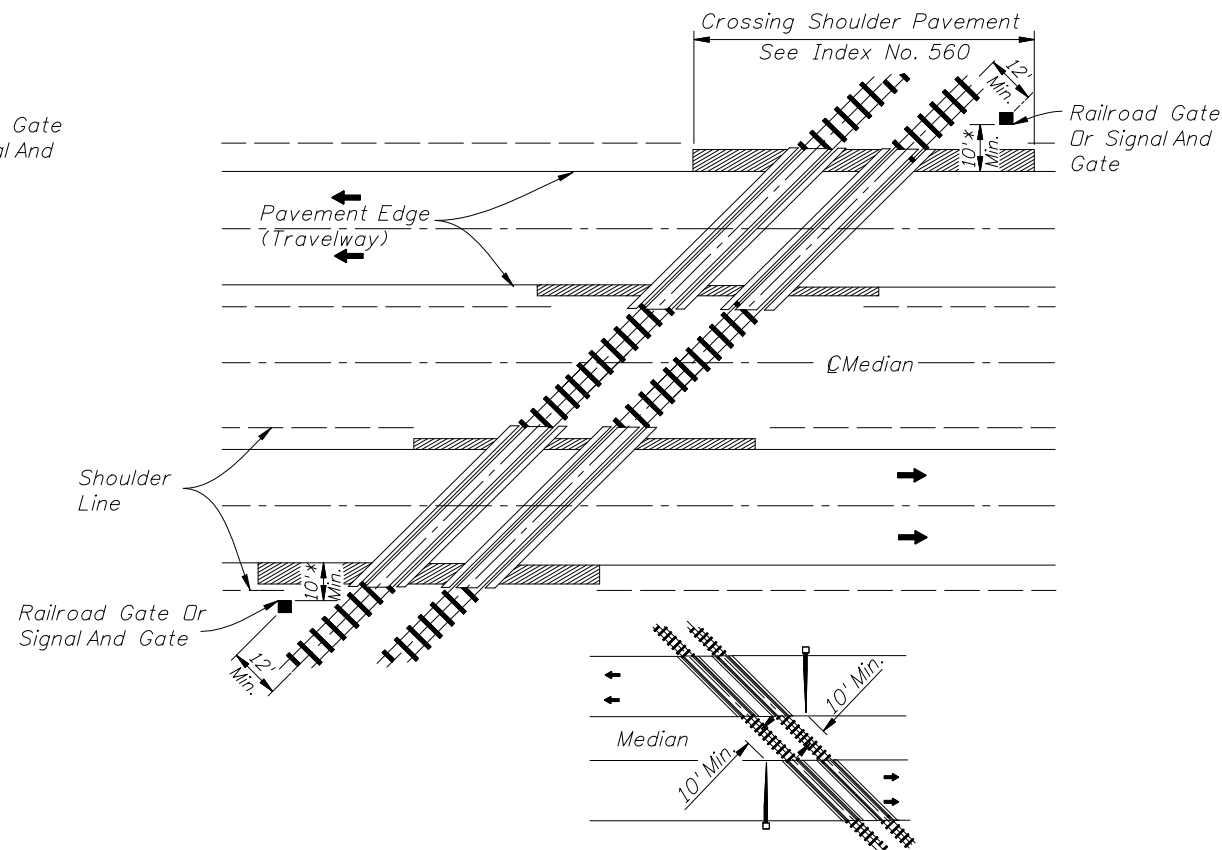
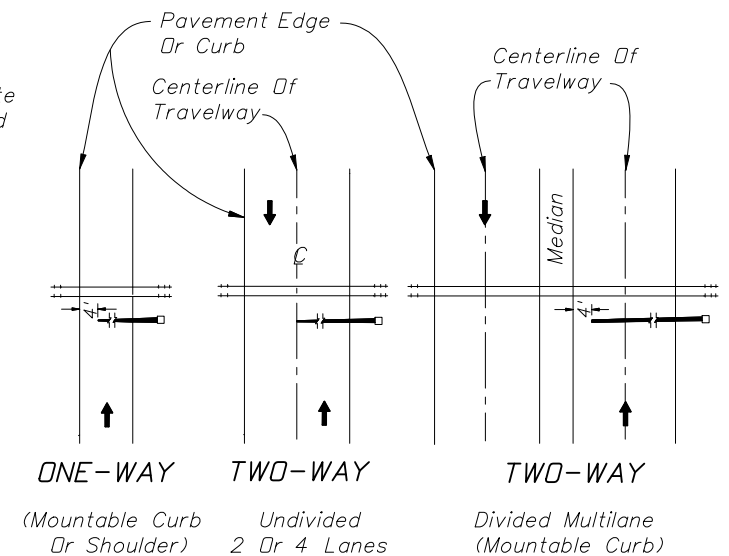


SIGNAL PLACEMENT AT RAILROAD CROSSING  
(2 - LANE DESIGN)

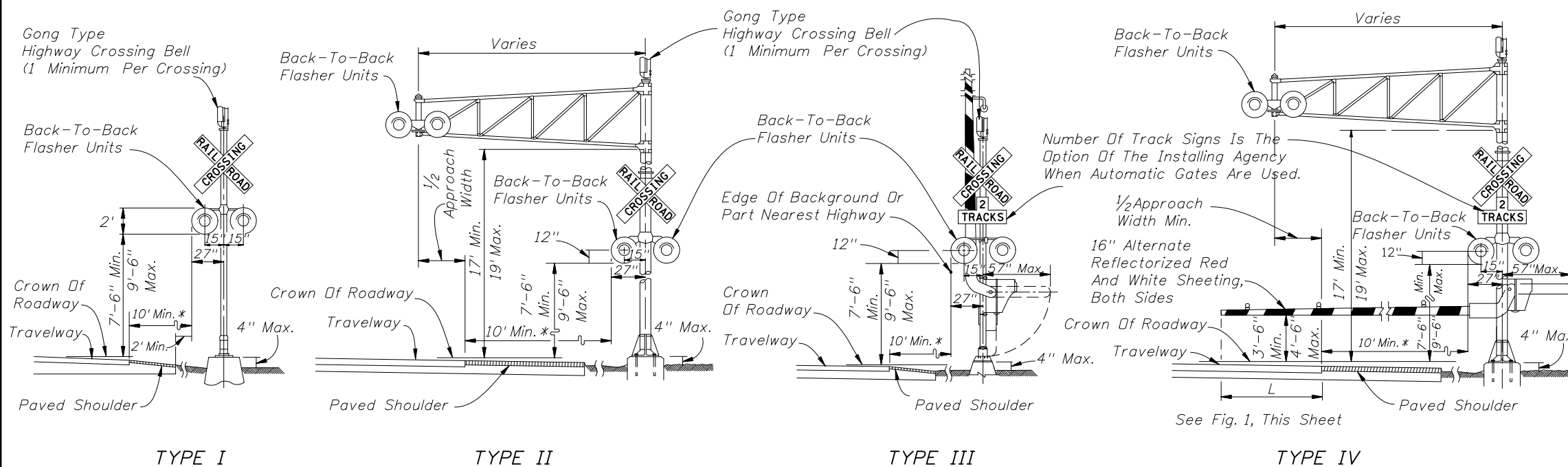


SIGNAL PLACEMENT AT RAILROAD CROSSING  
(4 - LANE DESIGN)



Note :  
Arrows denote direction of travel not lane indication

FIGURE 1  
Gate Length Requirements  
See Note 5 Sheet 3



General Notes

- No guardrail is proposed for signals; however, some form of impact attenuation device may be specified for certain locations.
- Advance flasher to be installed when and if called for in plans or specifications.
- Top of foundation shall be no higher than 4" above finished shoulder grade.
- Type of traffic control device
  - Flashing signals
  - Flashing signals with cantilever
  - Flashing signals with gate
  - Flashing signals with cantilever & gate
  - Gate
- Class of traffic control devices
  - Flashing signals - one track
  - Flashing signals - multiple tracks
  - Flashing signals and gates - one track
  - Flashing signals and gates - multiple tracks

Note:  
Two separate foundations may be required (one for signals, one for gate), depending on type of equipment used.

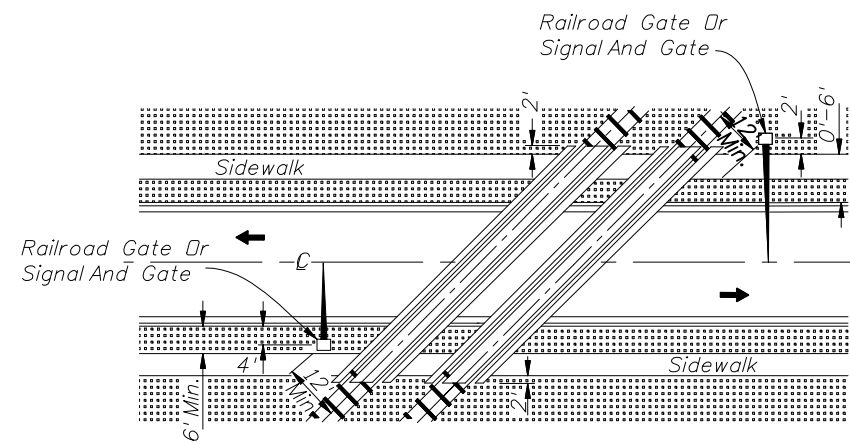
\* When 10' is deemed impracticable the control device can be located as close as 2' from the edge of a paved shoulder but not less than 6' from the edge of the near traffic lane.



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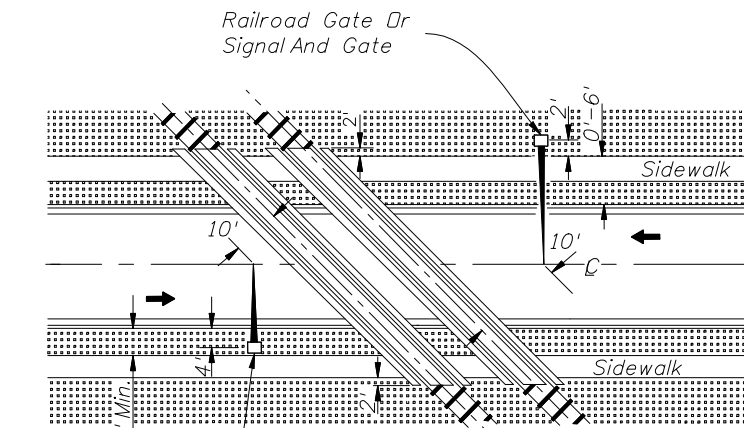
RAILROAD GRADE CROSSING  
TRAFFIC CONTROL DEVICES

|               |           |
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ACUTE ANGLE (AND RIGHT ANGLE)

SIGNAL PLACEMENT AT RAILROAD CROSSING  
(2 LANES, CURB & GUTTER)

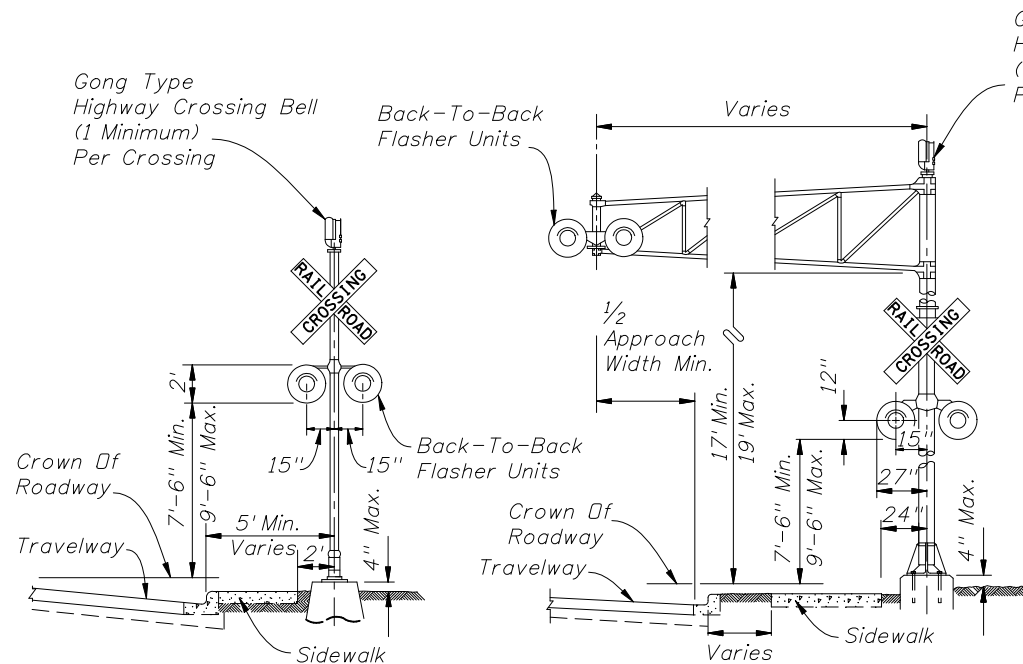


OBTUSE ANGLE

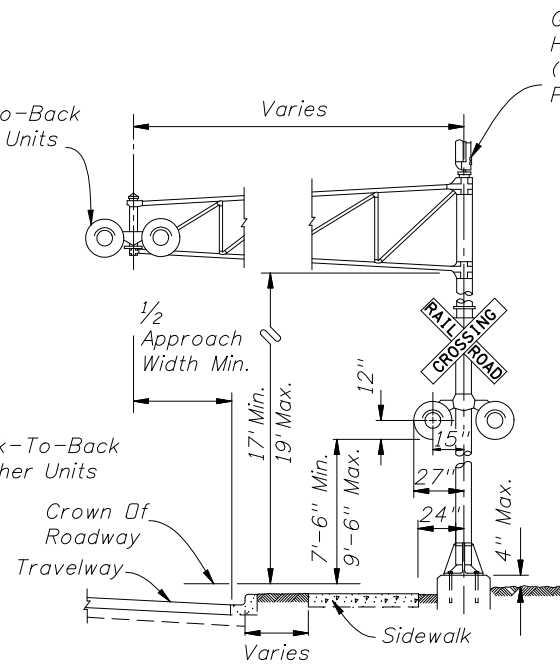
SIGNAL PLACEMENT AT RAILROAD CROSSING  
(2 LANES, CURB & GUTTER)

GENERAL NOTES

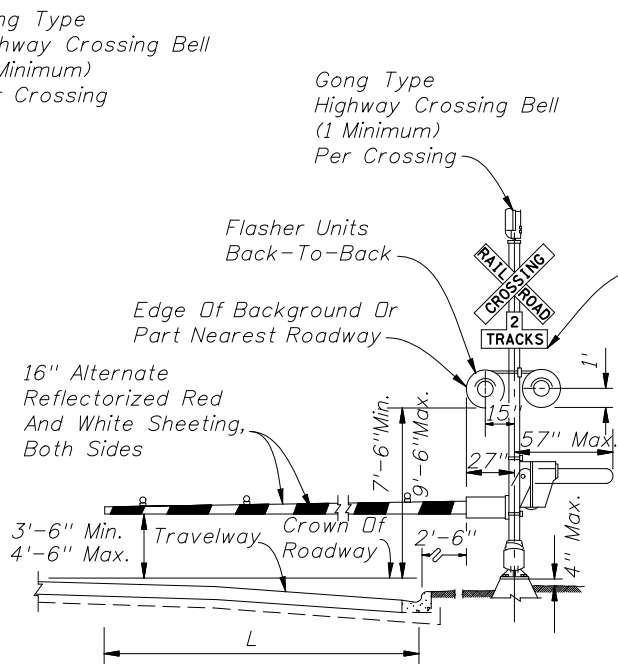
1. The location of flashing signals and stop lines shall be established based on future (or present) installation of gate with appropriate track clearances.
2. Where plans call for railroad traffic control devices to be installed in curbed medians, the minimum median width shall be 12'-6".
3. Location of railroad traffic control device is based on the distance available between face of curb & sidewalk. 0' to 6' - Locate device outside sidewalk. Over 6' - Locate device between face of curb and sidewalk.
4. Stop line to be perpendicular to edge of roadway, approx. 15' from nearest rail; or 8' from and parallel to gate when present.



TYPE I



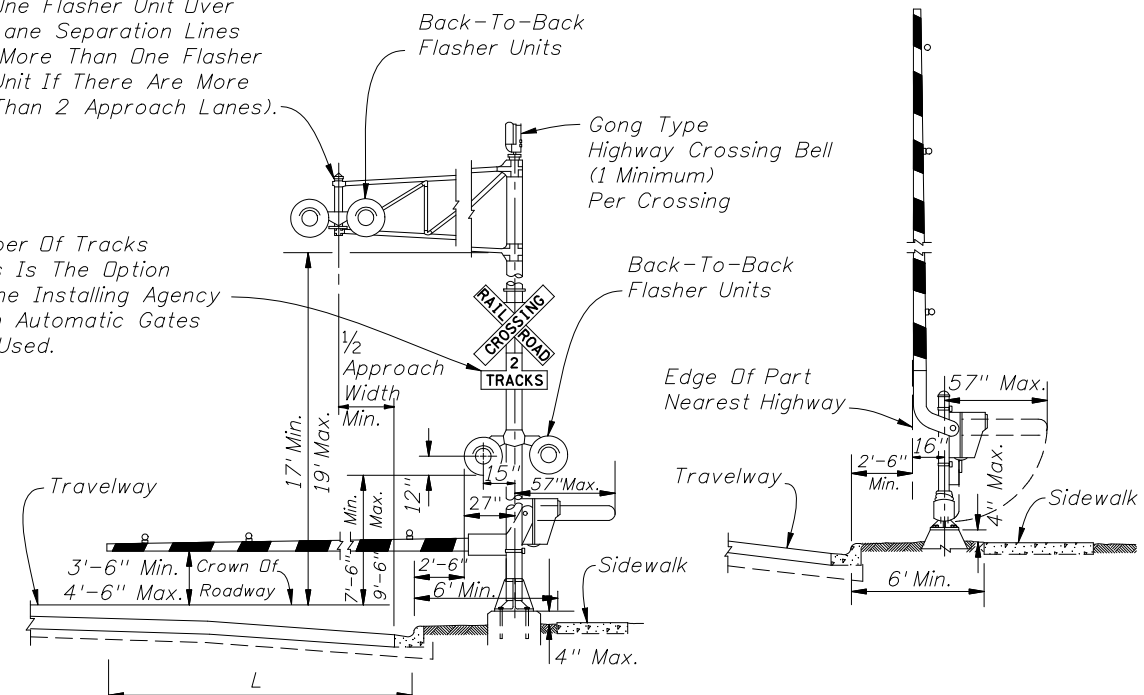
TYPE II



TYPE III

As A Minimum, Position One Flasher Unit Over Lane Separation Lines (More Than One Flasher Unit If There Are More Than 2 Approach Lanes).

Number Of Tracks Signs Is The Option Of The Installing Agency When Automatic Gates Are Used.



TYPE IV

TYPE V

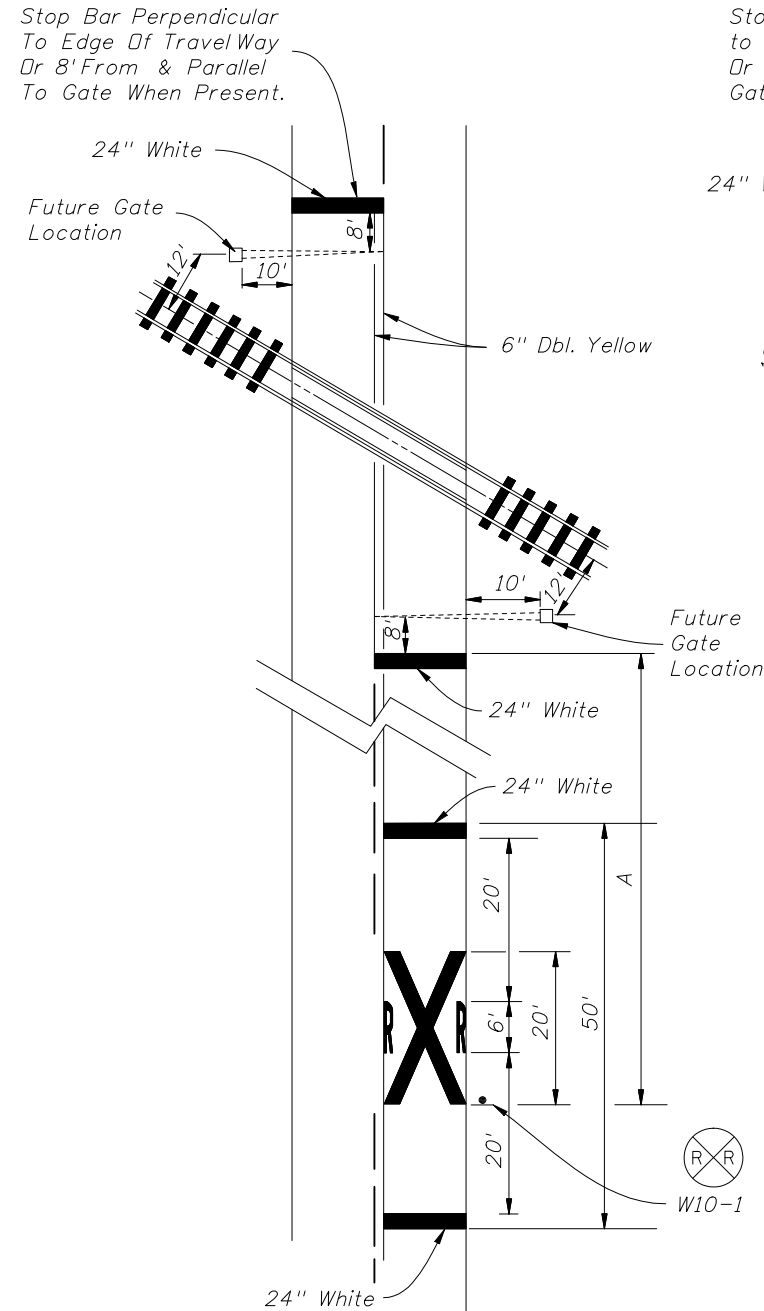


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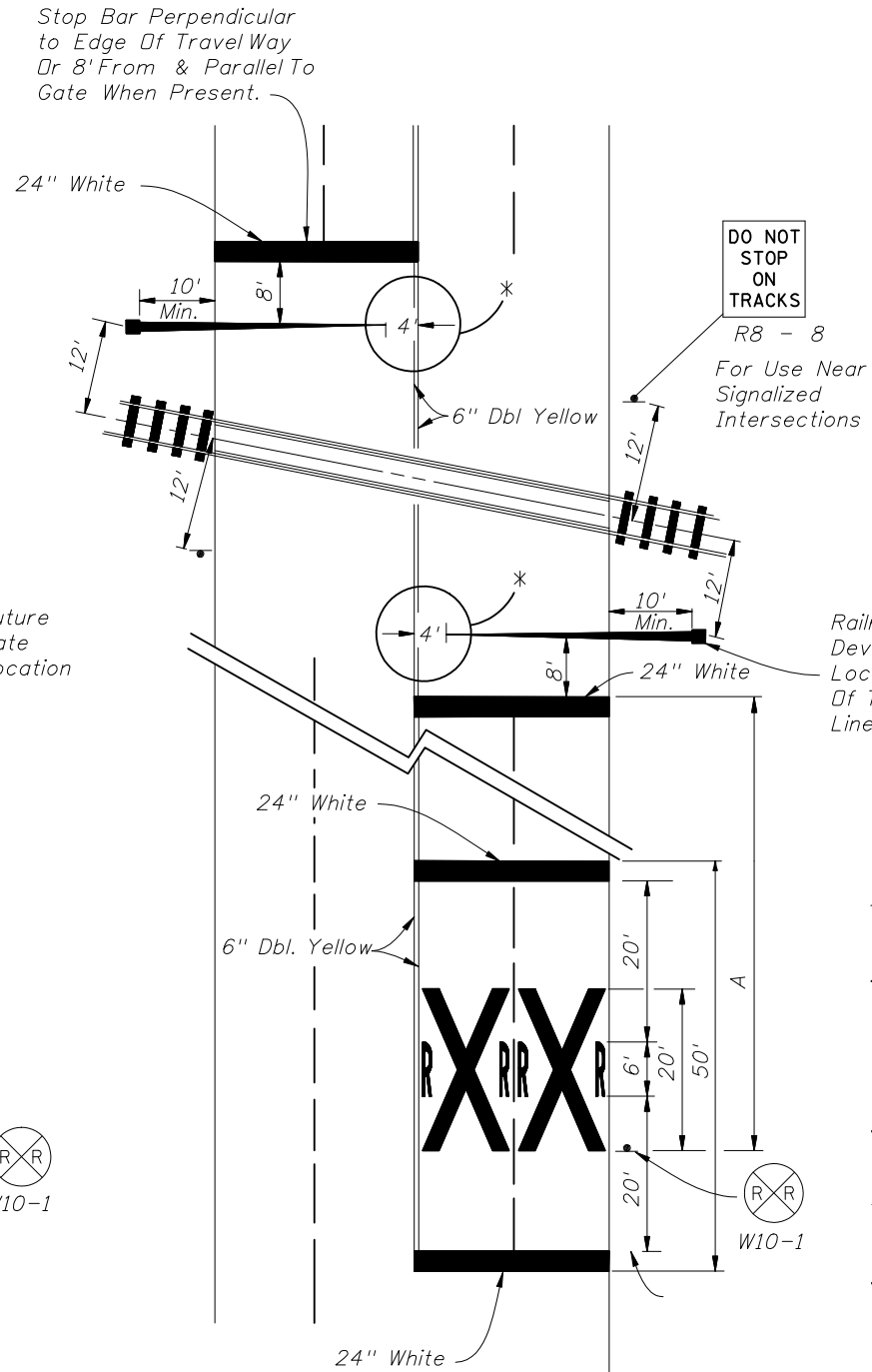
RAILROAD GRADE CROSSING  
TRAFFIC CONTROL DEVICES

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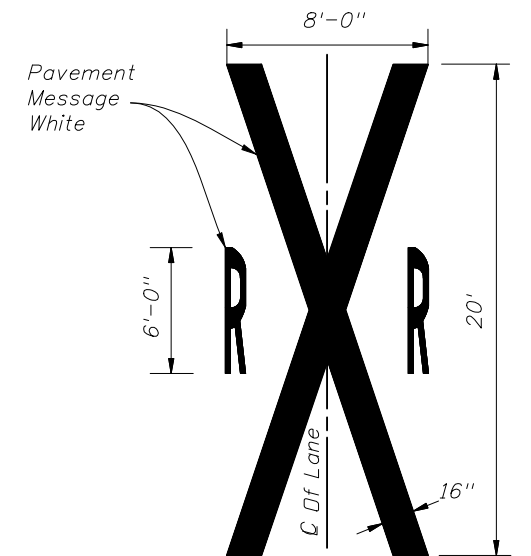
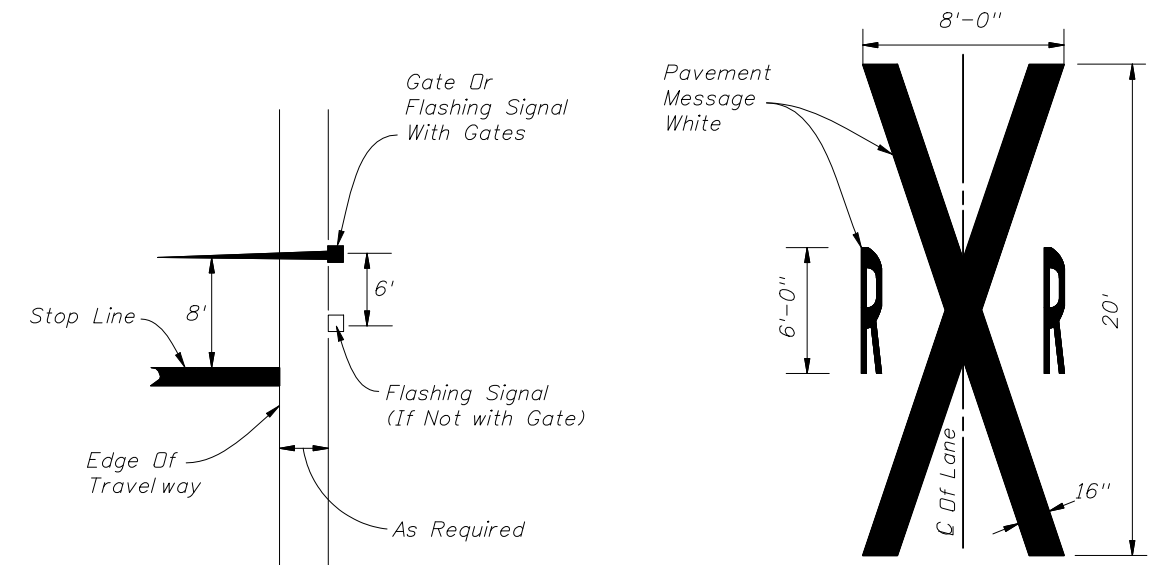
**RAILROAD CROSSING AT TWO (2)-LANE ROADWAY**



**RAILROAD CROSSING AT MULTILANE ROADWAY**



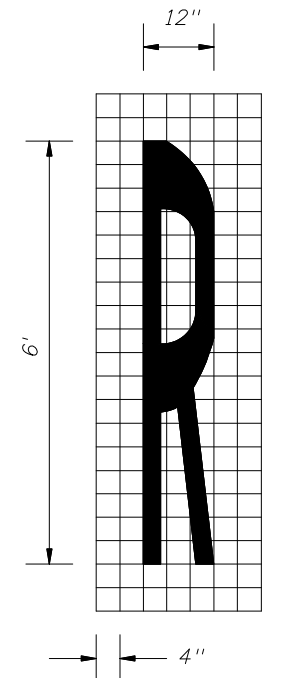
**RELATIVE LOCATION OF CROSSING TRAFFIC CONTROL DEVICES**



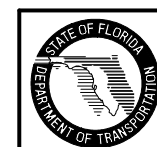
**NOTES:**

1. When computing pavement message, quantities do not include traverse lines.
2. Placement of sign W10-1 in a residential or business district, where low speeds are prevalent, the W10-1 sign may be placed a minimum distance of 100' from the crossing. Where street intersections occur between the RR pavement message and the tracks an additional W10-1 sign and additional pavement message should be used.
3. A portion of the pavement markings symbol should be directly opposite the W10-1 sign.
4. Recommended location for FTP-61-06 or FTP-62-06 signs, 100' urban and 300' rural. See Index 17355 for sign details.
5. Gate Length Requirements:  
For Two-way undivided sections:  
The gate should extend to within 1' of the center line. On multiple approaches the maximum gate length may not reach to within 1' of the center line. For those cases, the distance from the gate to the center line shall be a maximum of 4'.

For one-way or divided sections:  
The gate shall be of sufficient length such that the distance from the gate tip to the inside edge of pavement is a maximum of 4'.



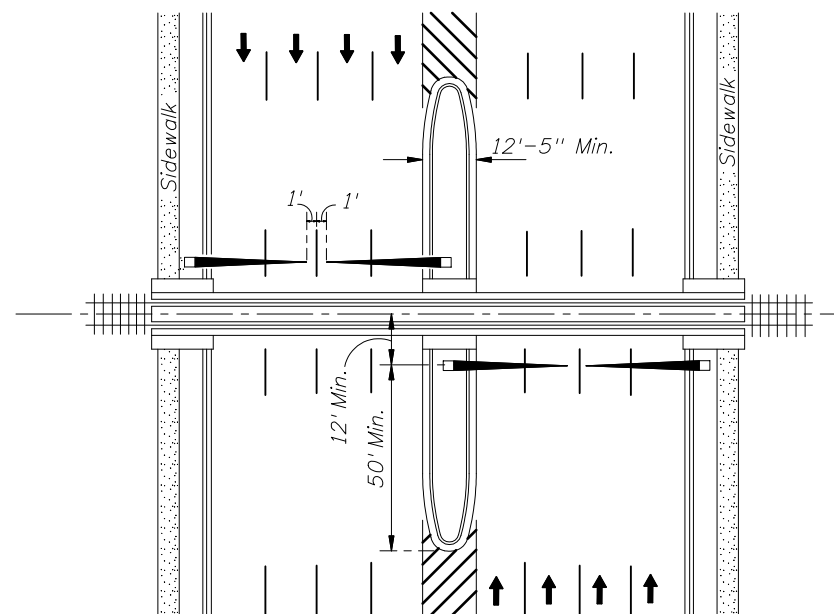
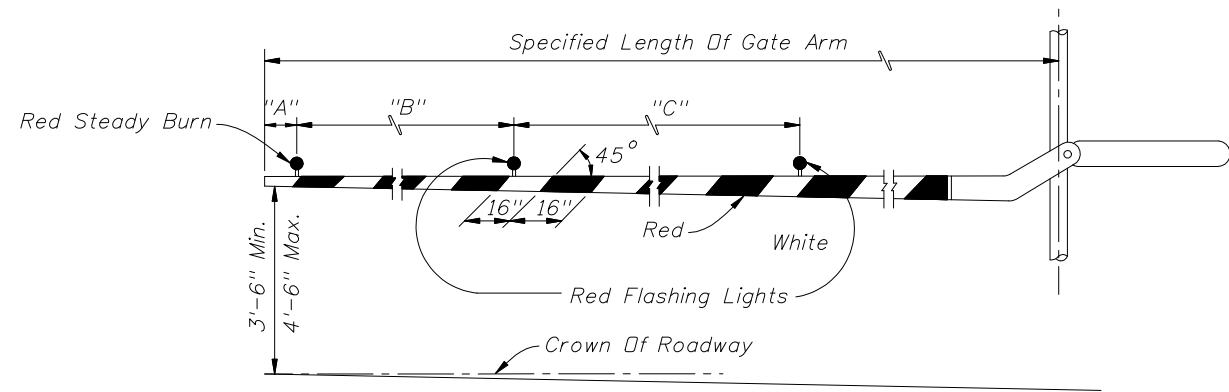
| SPEED MPH | " A " IN FT. |
|-----------|--------------|
| 60        | 400          |
| 55        | 325          |
| 50        | 250          |
| 45        | 175          |
| 40        | 125          |
| 35        | 100          |
| URBAN     | 85 MIN.      |



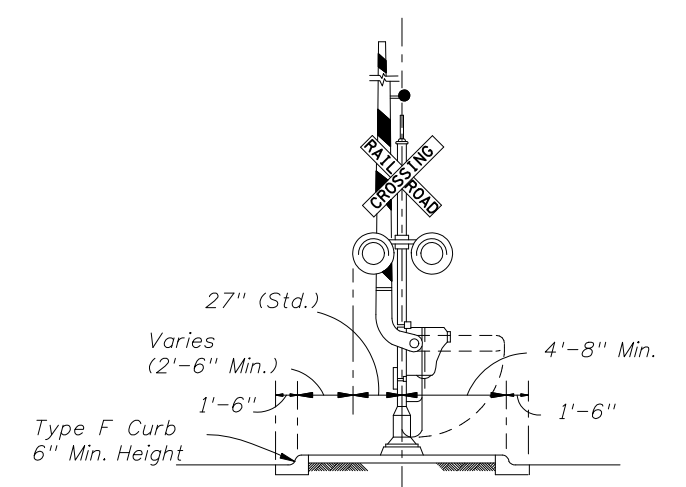
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**RAILROAD GRADE CROSSING TRAFFIC CONTROL DEVICES**

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PLAN



MEDIAN SECTION AT SIGNAL GATES

NOTE:  
 For additional information see the "Manual On Uniform Traffic Control Devices", Part 8; The "Traffic Control Handbook", Part VIII; and AASHTO "A Policy On Geometric Design Of Streets And Highways".

RAILROAD GATE ARM LIGHT SPACING

| Specified Length Of Gate Arm | Dimension "A" | Dimension "B" | Dimension "C" |
|------------------------------|---------------|---------------|---------------|
| 14 Ft.                       | 6"            | 36"           | 5'            |
| 15 Ft.                       | 18"           | 36"           | 5'            |
| 16-17 Ft.                    | 24"           | 36"           | 5'            |
| 18-19 Ft.                    | 28"           | 41"           | 5'            |
| 20-23 Ft.                    | 28"           | 4'            | 5'            |
| 24-28 Ft.                    | 28"           | 5'            | 5'            |
| 29-31 Ft.                    | 36"           | 6'            | 6'            |
| 32-34 Ft.                    | 36"           | 7'            | 7'            |
| 35-37 Ft.                    | 36"           | 9'            | 9'            |
| 38 And Over                  | 36"           | 10'           | 10'           |

MEDIAN SIGNAL GATES FOR  
 MULTILANE UNDIVIDED URBAN SECTIONS

(THREE OR MORE DRIVING LANES IN ONE DIRECTION, 45 MPH OR LESS)



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RAILROAD GRADE CROSSING  
 TRAFFIC CONTROL DEVICES

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