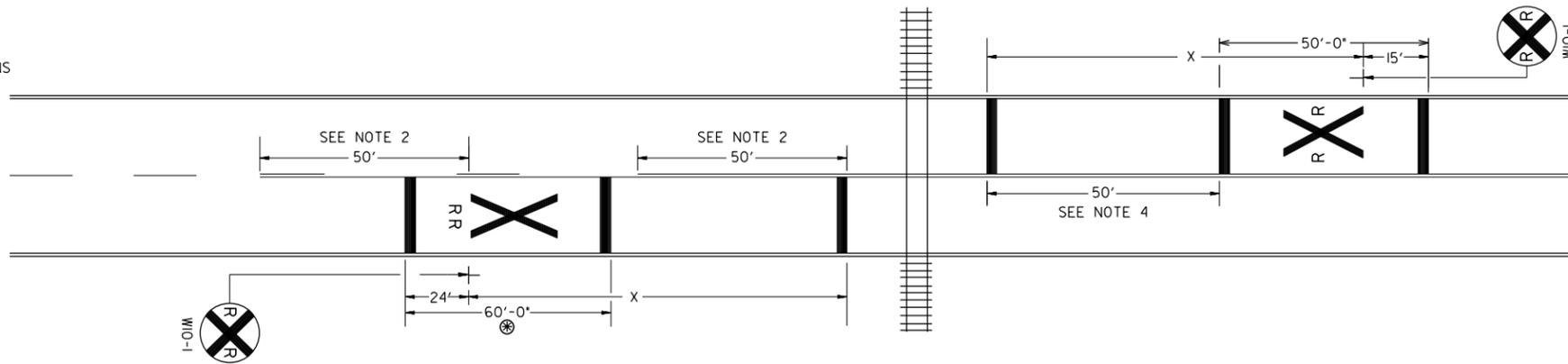


TYPICAL PAVEMENT MARKINGS

GUIDELINES FOR ADVANCE PLACEMENT OF WARNING SIGNS  
(Source: 2023 Edition MUTCD)

SPEED (MPH)	ADVANCE PLACEMENT DISTANCE (FT)
	CONDITION B (0 MPH) MINIMUM
0-20	115
25	155
30	200
35	250
40	305
45	360
50	425
55	495
60	570
65	645

See Guidelines for Advance Placement of Warning Sign Distance Table

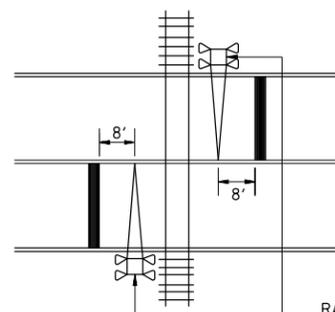


⊗ NARROW RR-HWY CROSSING SYMBOL TO BE USED IN LANES LESS THAN 11'-0". PAYMENT SHALL BE SAME AS RR-HWY CROSSING SYMBOL.

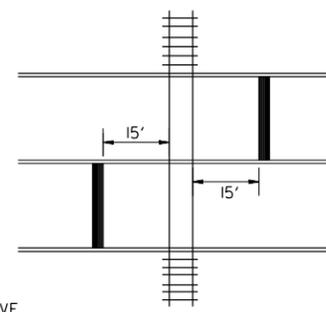
NOTES:

- ROADWAY PAVEMENT MARKINGS SHALL BE ADDED FOR ALL RAILROAD CROSSING UPGRADES.
- NO-PASSING ZONE MARKINGS IN APPROACH TO CROSSING SHALL BE INSTALLED A MINIMUM OF 50 FEET BEFORE RR ADVANCE WARNING SIGN (W10-1) AND 50 FEET BEYOND THE STOP LINE FOR THE OPPOSING TRAFFIC LANE.
- WHERE CENTERLINE AND/OR EDGE LINES DO NOT EXIST, RR SYMBOL MARKINGS SHALL EXTEND FROM THE EDGE OF TRAVELED WAY TO AT LEAST HALFWAY ACROSS THE PAVEMENT.
- THE DOWNSTREAM TRANSVERSE LINE OF THE RR-HWY CROSSING SYMBOL SHOULD BE AT LEAST 50 FEET UPSTREAM FROM THE STOP OR YIELD LINE AT THE GRADE CROSSING.
- IF GRADE CROSSING PAVEMENT MARKINGS ARE USED ON A MULTI-LANE APPROACH TO A GRADE CROSSING, IDENTICAL MARKINGS SHALL BE PLACED IN EACH APPROACH LANE THAT CROSSES THE TRACKS.

(FOR ACTIVE WARNING DEVICES)



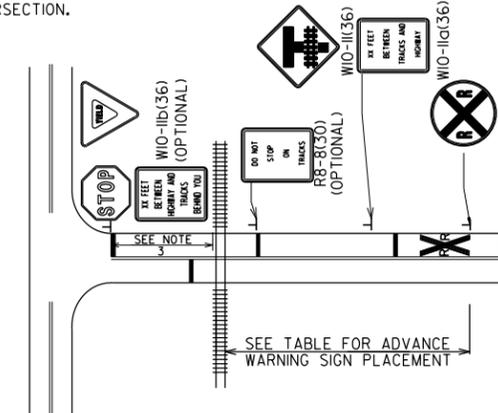
(FOR PASSIVE WARNING DEVICES)



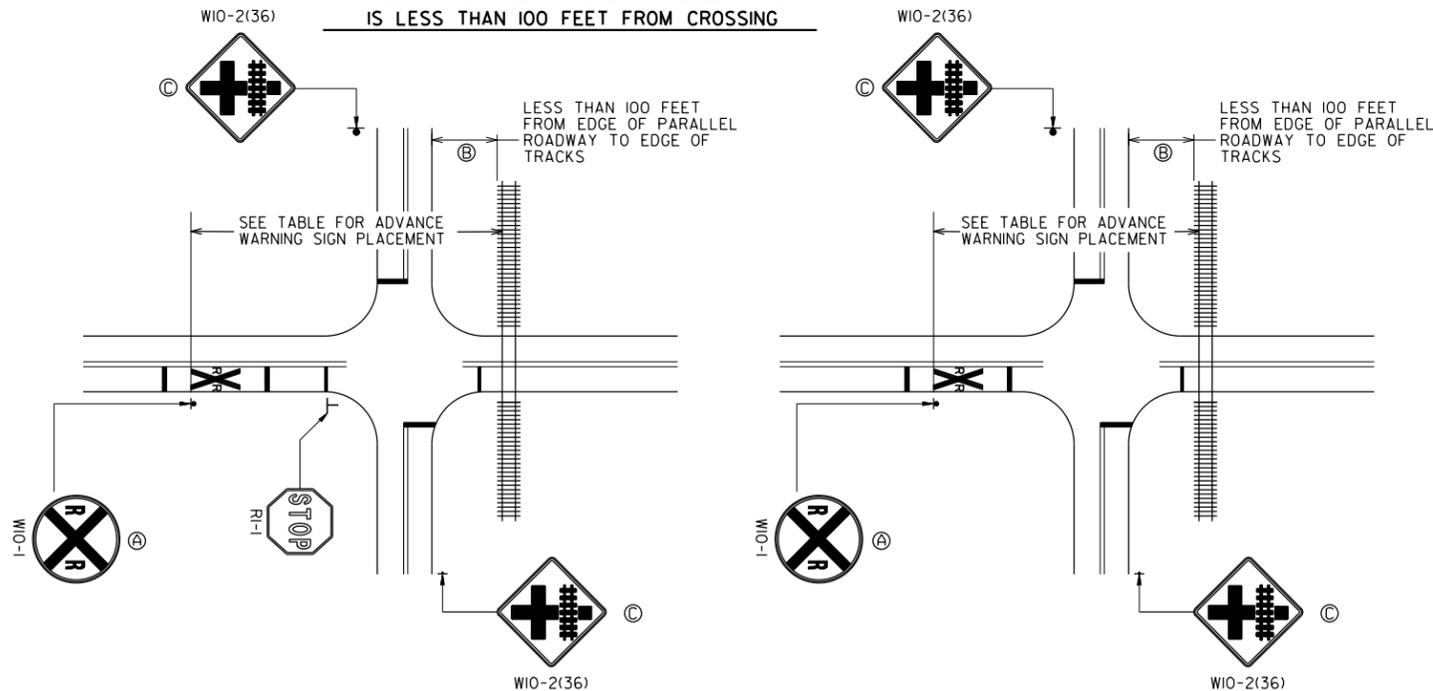
RAILROAD ACTIVE WARNING DEVICES

NOTES:

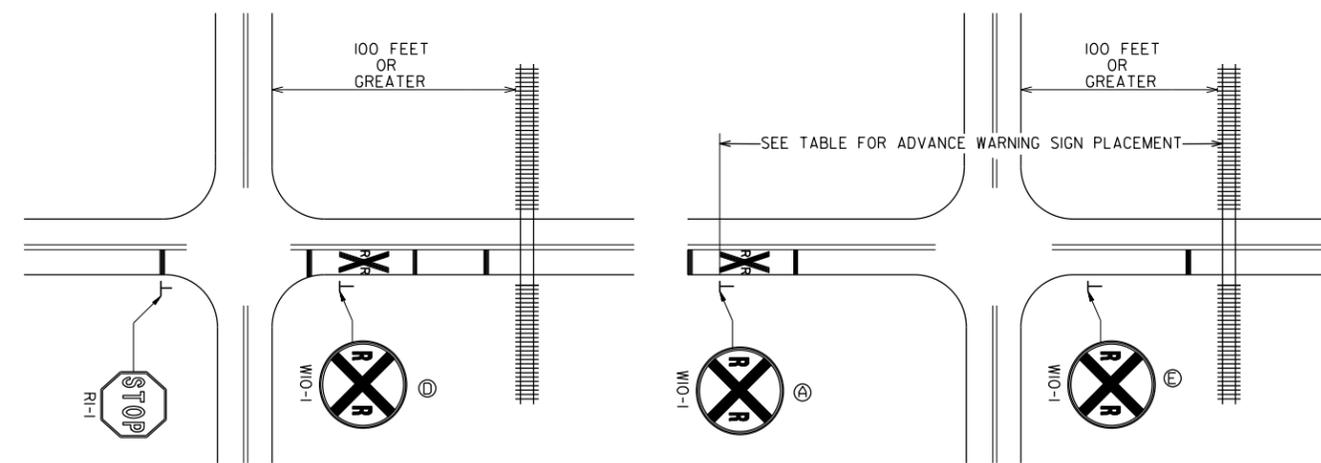
- A W10-II SIGN SUPPLEMENTED BY A W10-IIA SIGN SHOULD BE USED WHERE THERE IS A HIGHWAY INTERSECTION IN CLOSE PROXIMITY TO THE GRADE CROSSING AND AN ENGINEERING STUDY DETERMINES THAT ADEQUATE SPACE IS NOT AVAILABLE TO STORE A DESIGN VEHICLE(S) BETWEEN THE HIGHWAY INTERSECTION AND THE TRAIN.
- THE W10-II AND W10-IIa SIGNS SHOULD BE MOUNTED IN ADVANCE OF THE GRADE CROSSING AT AN APPROPRIATE LOCATION TO ADVISE DRIVERS OF THE SPACE AVAILABLE FOR HIGHWAY VEHICLE STORAGE BETWEEN THE HIGHWAY INTERSECTION AND THE GRADE CROSSING.
- OPTIONAL - A STORAGE SPACE (W10-IIb) SIGN MAY BE MOUNTED BEYOND THE GRADE CROSSING AT THE HIGHWAY INTERSECTION UNDER THE STOP OR YIELD SIGN OR JUST PRIOR TO THE SIGNALIZED INTERSECTION TO REMIND DRIVERS OF THE STORAGE SPACE BETWEEN THE TRACKS AND THE HIGHWAY INTERSECTION.



TYPICAL SIGN SYSTEM WHERE PARALLEL ROADWAY IS LESS THAN 100 FEET FROM CROSSING



TYPICAL SIGN SYSTEM WHERE PARALLEL ROADWAY IS 100 FEET OR GREATER FROM CROSSING



NOTES:

- IF A YIELD AHEAD OR STOP AHEAD SIGN IS INSTALLED TO WARN ABOUT A STOP OR YIELD CONDITION AT THE CROSSING, THE W10-1 SIGN SHALL BE INSTALLED UPSTREAM FROM THE YIELD AHEAD OR STOP AHEAD SIGN. THE W10-1 SIGN, YIELD AHEAD OR STOP AHEAD SIGN SHALL BE LOCATED IN ACCORDANCE WITH TABLE 2C-3 OF THE M.U.T.C.D. THE MINIMUM DISTANCE BETWEEN THE SIGNS SHALL BE IN ACCORDANCE WITH SECTION 2C.04 AND TABLE 2C-3 OF THE M.U.T.C.D.
- IF THE DISTANCE BETWEEN THE TRACKS AND A PARALLEL HIGHWAY, FROM THE EDGE OF THE TRACKS TO THE EDGE OF THE PARALLEL ROADWAY, IS LESS THAN 100 FEET, W10-2, W10-3, OR W10-4 SIGNS SHALL BE INSTALLED ON EACH APPROACH OF THE PARALLEL HIGHWAY TO WARN ROAD USERS MAKING A TURN THAT THEY WILL ENCOUNTER A GRADE CROSSING SOON AFTER MAKING A TURN, AND A W10-1 SIGN FOR THE APPROACH TO THE TRACKS SHALL NOT BE REQUIRED TO BE BETWEEN THE TRACKS AND THE PARALLEL HIGHWAY. IF A DEDICATED TURN ONLY LANE EXISTS FOR THE MOVEMENT TOWARD THE CROSSING, A RRX MARKING SYMBOL SHOULD BE INSTALLED IN THE DEDICATED TURN LANE.
- SIGN PLACEMENT SHOULD BE IN ACCORDANCE WITH THE GUIDELINES FOR INTERSECTION WARNING SIGNS IN THE M.U.T.C.D.
- IF STOP OR YIELD SIGNS ARE PRESENT AT THE INTERSECTION PRIOR TO THE CROSSING, THE W10-1 SIGN AND RR-HWY CROSSING SYMBOL ARE REQUIRED ONLY BETWEEN THE INTERSECTION AND THE CROSSING.
- IF THERE ARE NO STOP OR YIELD SIGNS AT THE INTERSECTION PRIOR TO THE CROSSING, OR A TRAFFIC SIGNAL IS PRESENT, THE W10-1 AND RR-HWY CROSSING SYMBOL ADVANCE PLACEMENT BY SPEED IS REQUIRED. A SECONDARY W10-1 SIGN SHOULD BE INSTALLED BETWEEN THE CROSSING AND THE INTERSECTION. IF A SECONDARY W10-1 SIGN CANNOT BE INSTALLED, W10-2, W10-3, OR W10-4 SIGNS SHOULD BE PLACED ON THE PARALLEL ROADWAYS THAT INTERSECT BETWEEN THE INSTALLED W10-1 AND CROSSING.

DATE		DEPARTMENT OF TRANSPORTATION STATE OF GEORGIA	
REVISION		CONSTRUCTION DETAIL	
BY		RAILROAD GRADE CROSSINGS SIGNING AND MARKING AT CROSSINGS WITH RR SIGNALS AND/OR GATES	
		NUMBER RR-01	
		JULY 2025 NOT TO SCALE	