TEMPORARY TRAFFIC CONTROL TYPICAL APPLICATION

1. Follow the steps below to determine when YIELD signs should be installed on entrance ramps:

YIELD SIGN WARRANT CHECKLIST

Mainline design speed (A) [MPH]
Entrance ramp design speed (B) [MPH]
Length of acceleration lane (C) [FT]
Grade of acceleration lane (D) [% UP/DOWN]
Grade adjustment factor (EF) [From Table 1 (E)]

Minimum required length of acceleration lane = (C)(D)(E) (F) [FEET]
Measured length of acceleration lane from Figure 1 (G) [FEET]

Is the measured length of the acceleration lane greater than the minimum required length (G > F)?
YES - YIELD sign not required
NO - go to step 2

*If design speed is unknown, add 10 mph to the posted speed to approximate design speed
**If the ramp speed is not posted, use the mainline posted speed

2. Follow the steps below to determine when YIELD AHEAD and NO MERGE AREA signs should be installed:

YIELD AHEAD/NO MERGE AREA SIGN WARRANT CHECKLIST

Use Figure 3 to determine required signing

Length of acceleration lane (G)
Ramp speed (B)
Intersecting point of (G) and (B) circle

ZONE 1 - YIELD only
ZONE 2 - YIELD with YIELD AHEAD
ZONE 3 - YIELD with YIELD AHEAD and NO MERGE AREA

GENERAL NOTES:

YIELD signs shall be placed opposite the physical gore, on the right side of the entrance ramp.

YIELD AHEAD signs may be placed on the right or left side of the entrance ramp, depending on ramp geometry and line of sight.

YIELD sign(s), with the approval of the Assistant District Engineer - Traffic, shall be replaced with STOP sign(s) on the right side (both sides) of the approach if no acceleration lane exists for temporary entrance. Also a temporary stop line shall be placed across the ramp at the desired stop location as determined by the Engineer.

Maryland Department of Transportation
STATE HIGHWAY ADMINISTRATION
STANDARDS FOR HIGHWAYS AND INCIDENTAL STRUCTURES
WARRANTS FOR YIELD SIGNS ON ENTRANCE RAMPS
CONVERGING WITH EXPRESSWAYS/FREeways

STANDARD NO. MD 104.01-31