

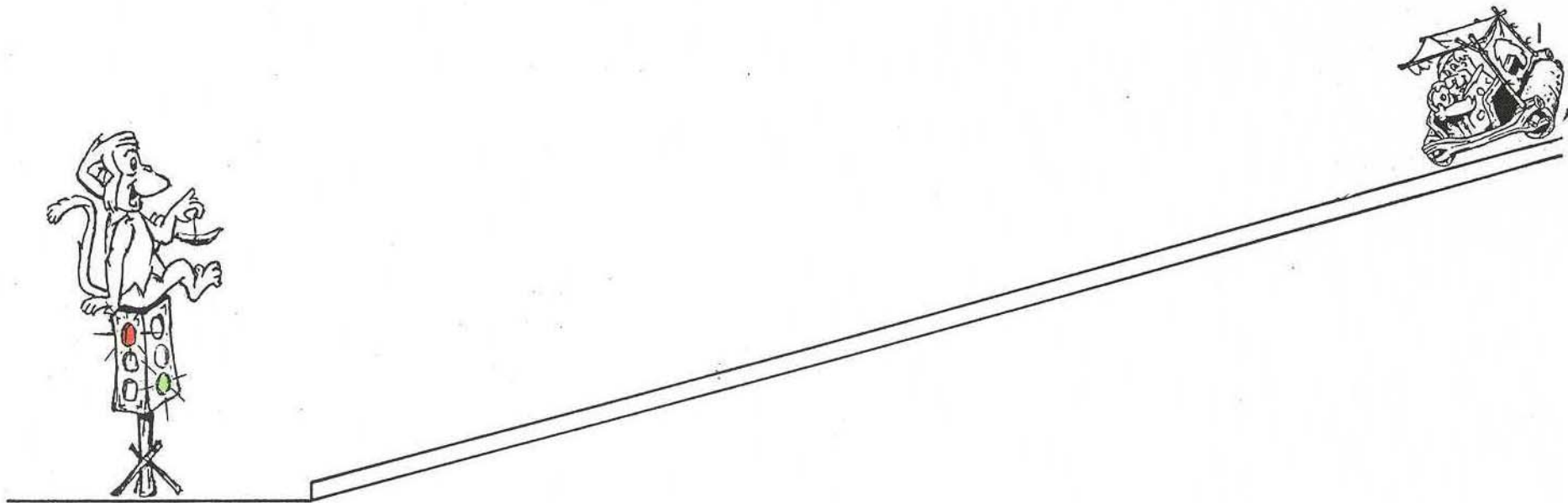


City Of Portland's  
Design for Traffic Signal  
Loop Spacing

Presented by:

David R. Hatch

July 28, 2003



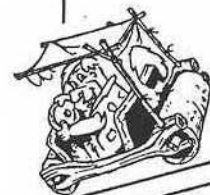
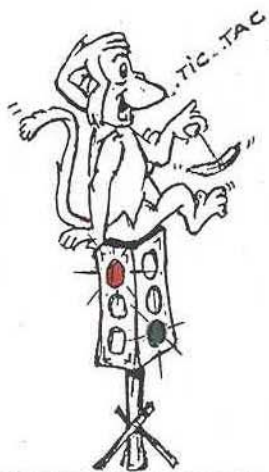
85% TILE OF  
POSTED SPEED



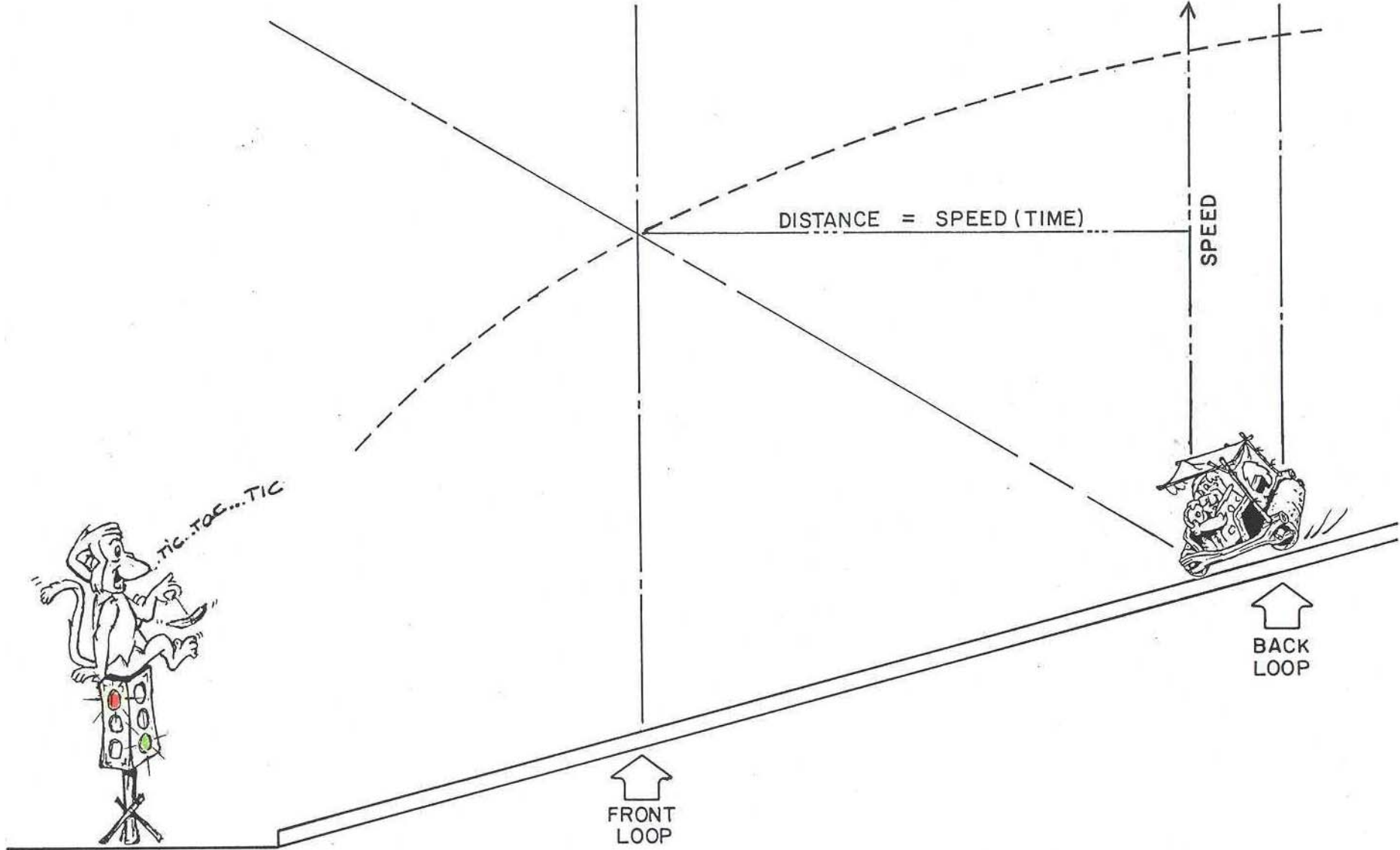
DISTANCE

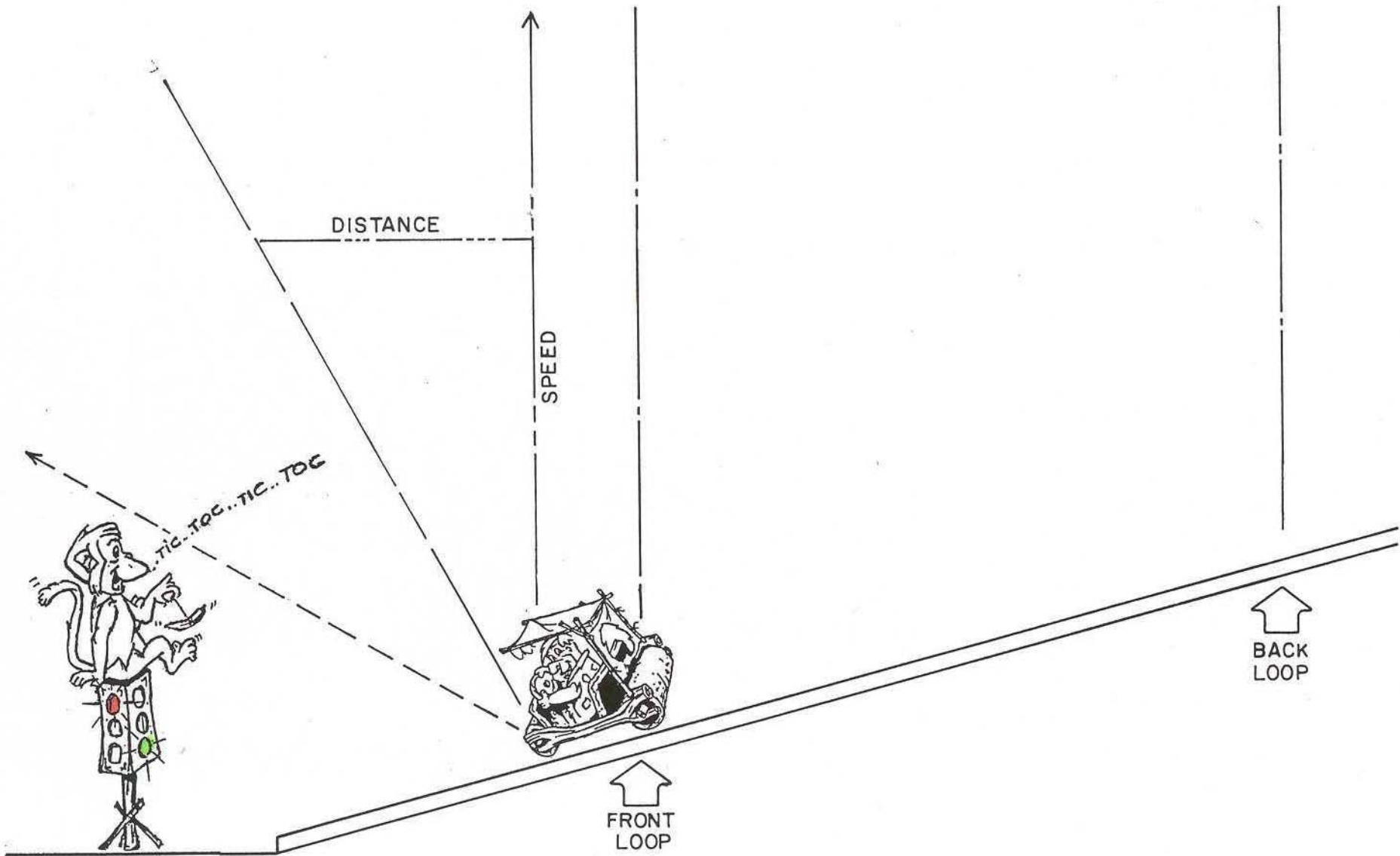
SPEED

SAFE STOPPING DISTANCE =  $V_0$  (ptr) +  $V_0^2$  (64.4 (f+g))



BACK LOOP





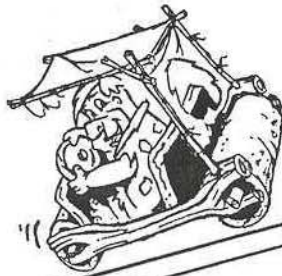
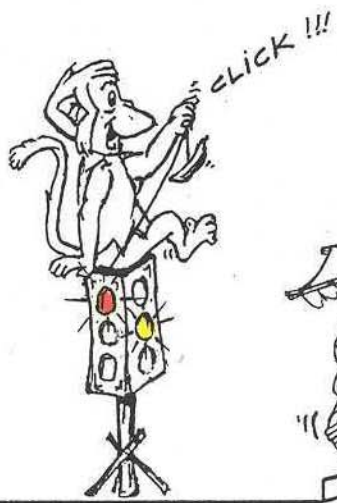
DISTANCE

SPEED

.TIC...TOC...TIC...TOC

FRONT LOOP

BACK LOOP



↑  
FRONT  
LOOP

↑  
BACK  
LOOP

FIGURE 1. SAFE STOPPING DISTANCE CURVE (LEVEL APPROACH)

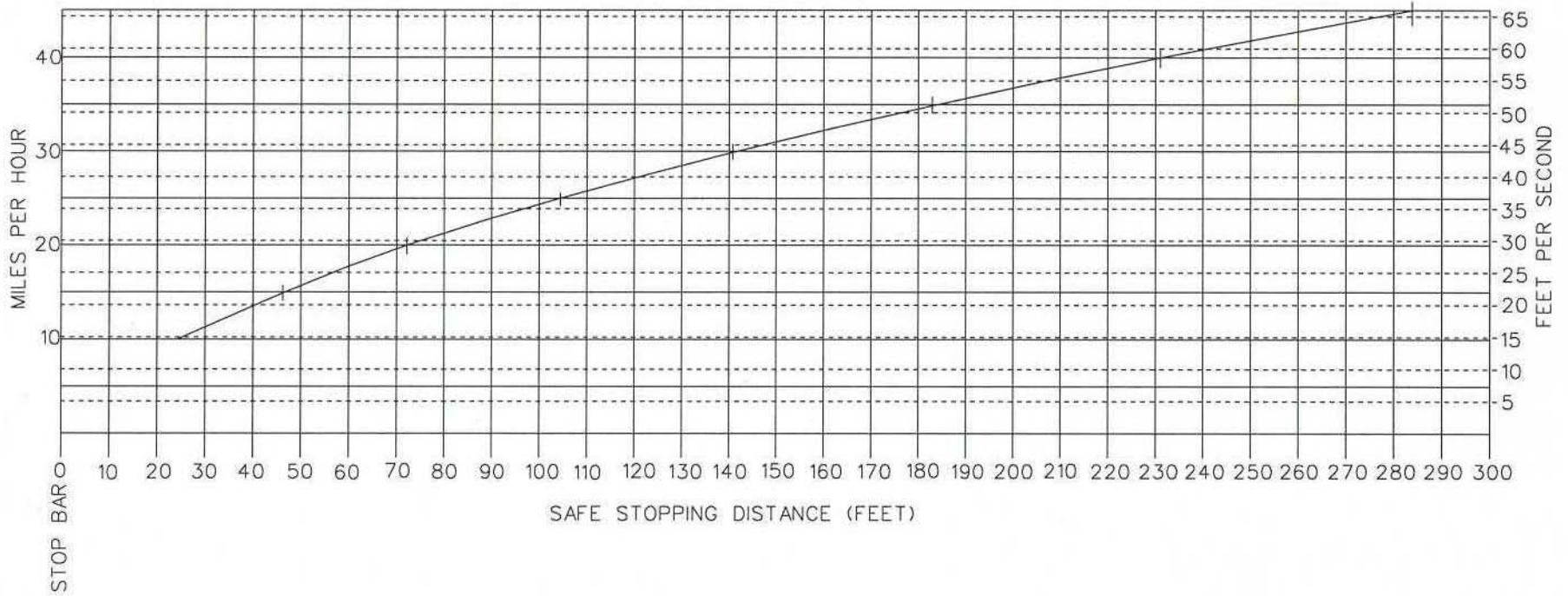


FIGURE 2. 30 MILE PER HOUR DESIGN (LEVEL APPROACH)

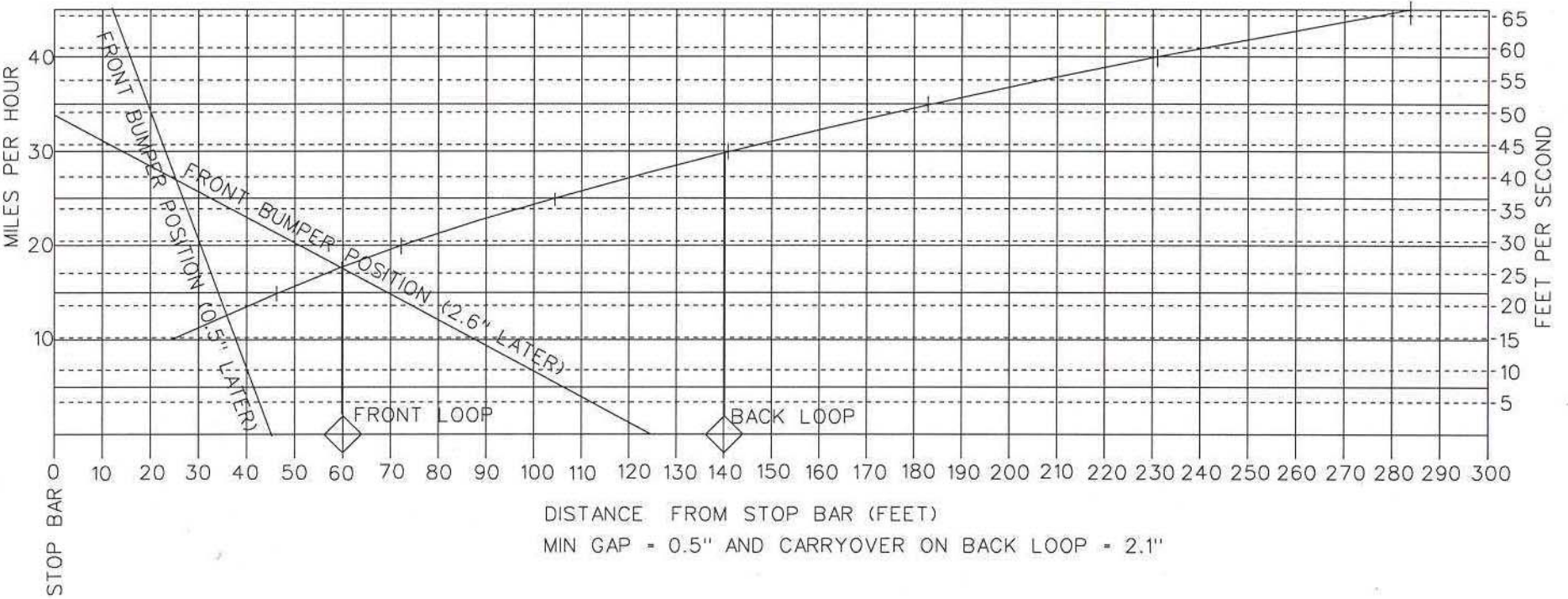




FIGURE 3. 35 MILE PER HOUR DESIGN (LEVEL APPROACH)

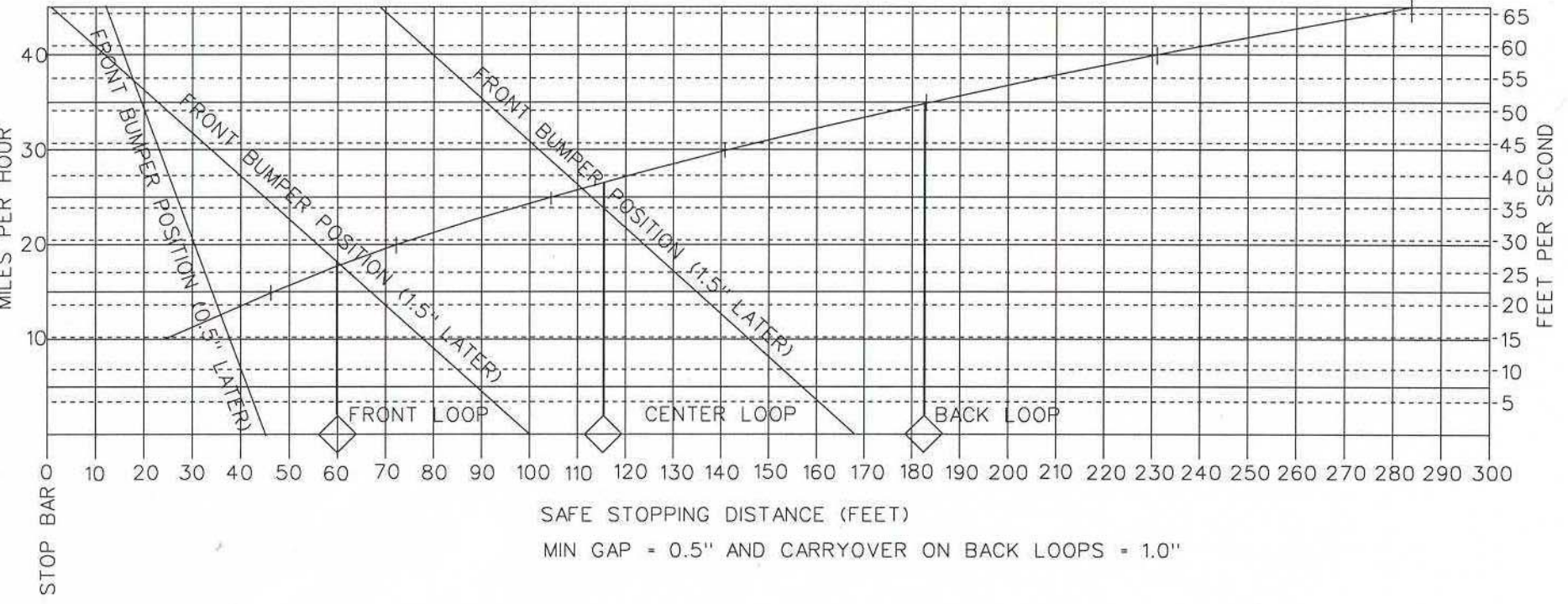


FIGURE 4. 40 MILE PER HOUR DESIGN (LEVEL APPROACH)

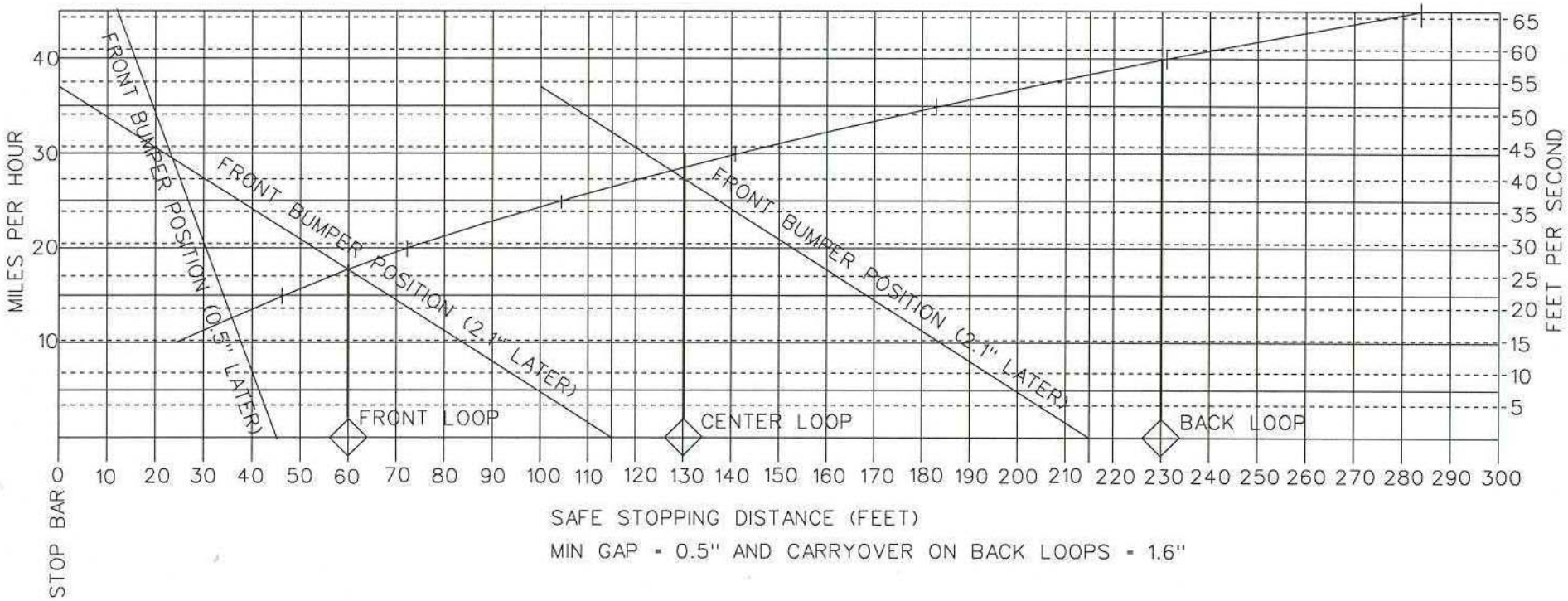


FIGURE 5. 45 MILE PER HOUR DESIGN (LEVEL APPROACH)

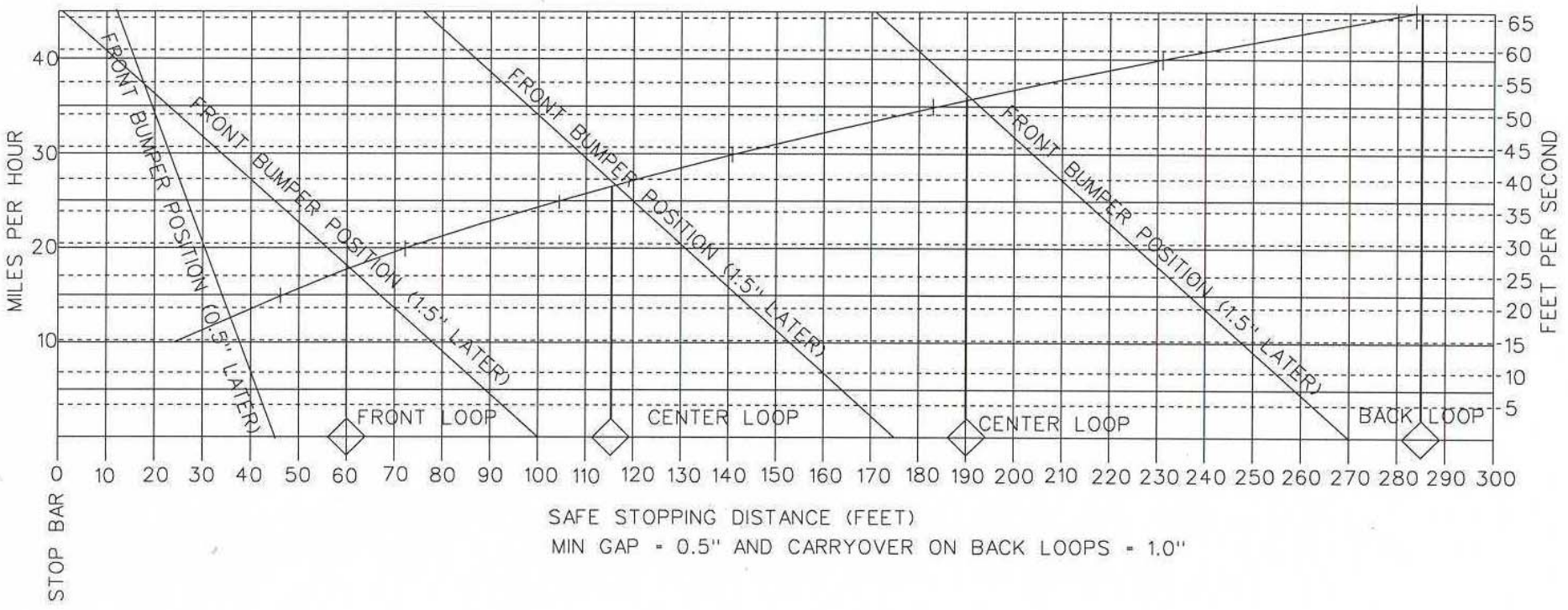


FIGURE 6. 160' & 320' EXISTING LOOP DESIGN (LEVEL)

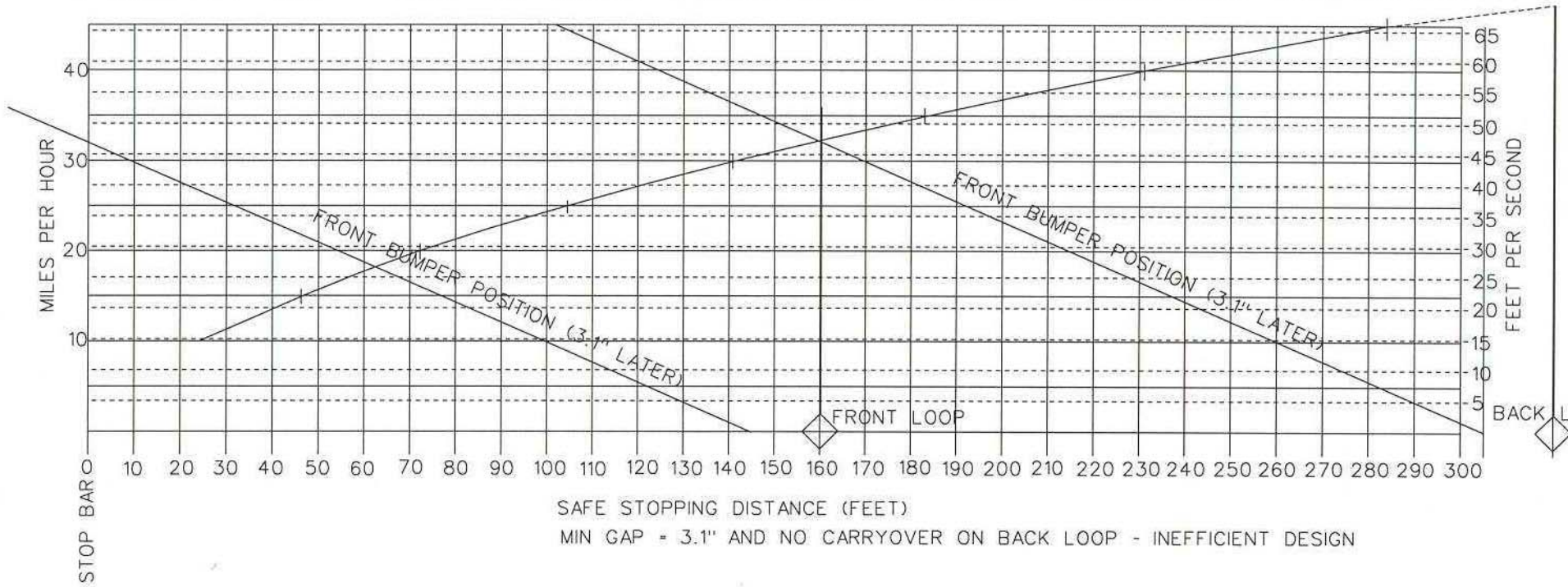


FIGURE 7. GRAPHICAL SOLUTIONS

