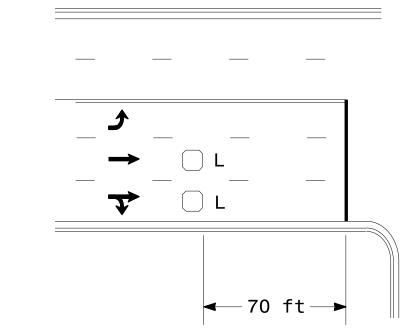
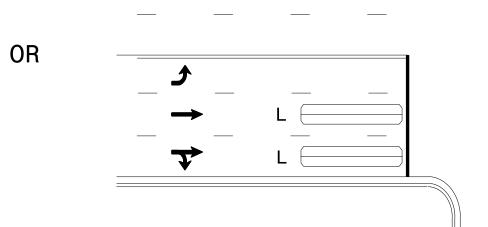


# Low Speed Detection (≤35 mph)





L = 6ft X 6ftWired in series

L = 6ft X 40ftQuadrupole loop, wired separately

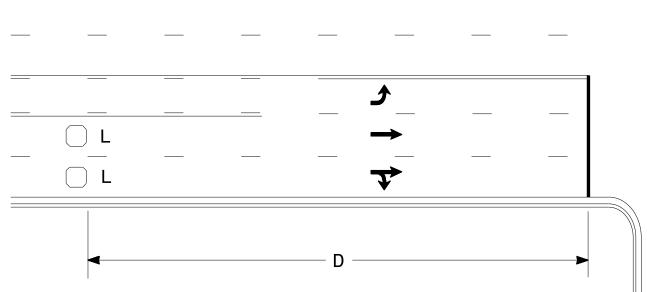
Right Turn Lane Detection

L2 = 6ft X 6ft [Minimum] Presence loop

L1 = 6ft X 40ft Quadrupole loop

Wired separately

## High Speed Detection (≥40 mph)



Speed Limit

40

50

55

ft

250

300

355

420

Volume Density Operation

OR			-
		_	

L = 6ft X 6ft				
Wired in series for TS1				
Controllers				
Wired separately for TS2,				
170, and 2070L Controllers				

Speed Limit ft 250 80 90 355 100 110

"Stretch" Operation

**→** □ L2

− D2 ----

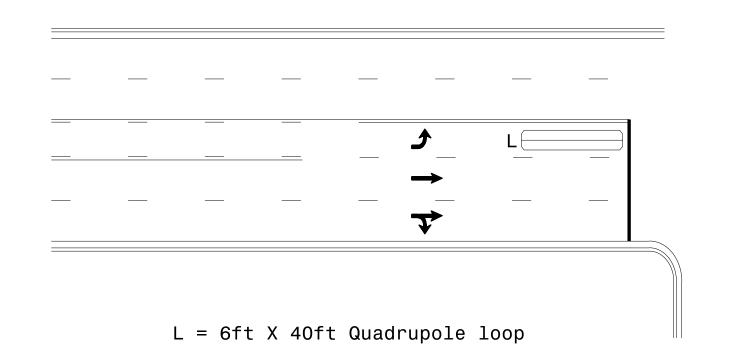
L1 = 6ft X 6ft

 $L2 = 6ft \times 6ft$ 

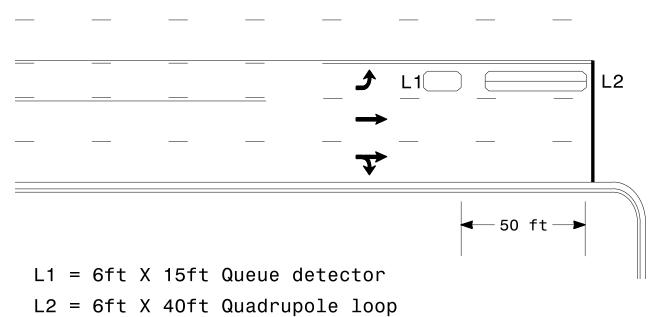
Wired in series

Wired in series

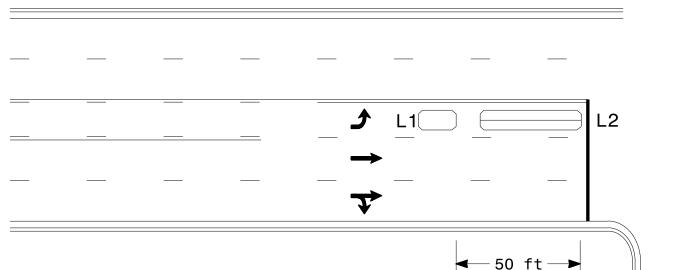
## Left Turn Lane Detection





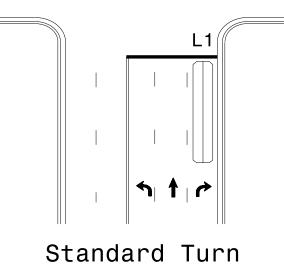


Queue Loop Detection



# **↑** ↑ **→**

Shared Lane/ Wide Radius Turn

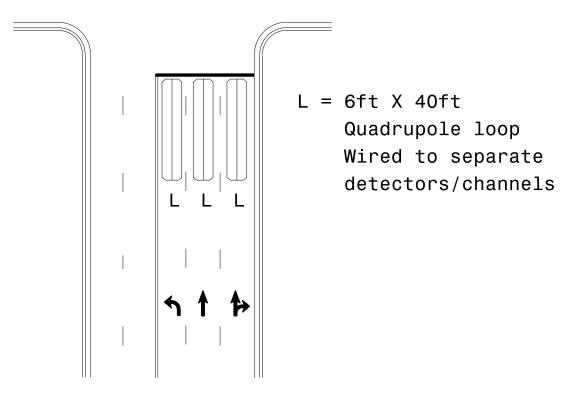


Wide Radius Turn

Channelized Turn

### Side Street Detection

Presence Loop Detection



Locate loop slightly behind leading edge of stop line —— Inductive Loop

### Presence Loop Placement at Stop Lines

Note: Loop may be located in advance of stop line under any of the following conditions:

- 1) stop line is greater than 15' from edge of intersecting roadway
- 2) loop detects a permissive or protected/permissive left turn
- 3) for an exclusive right turn lane

### Recommended Number of Turns

Single 6' X 6' loop (when wired separately):

ien wirea sep	Jaracory, i
Length of Lead-in ft	Number of Turns
< 250	3
250-375	4
375-525	5
> 525	6

Quadrupole loops: Use 2-4-2 turns

6' X 15' Loops: Lead-in < 150', use 2 turns Lead-in > 150', use 3 turns



SCALE

N/A

Typical Signal Loop Locations

PLAN DATE: January 2015 REVIEWED BY: REVIEWED BY: PLA REVISIONS INIT. DATE

PL Alexander