

		_
Speed Limit mph	D ft	L = 6ft X 6ft Wired in series for TS1
40	250	Controllers
45	300	Wired separately for TS2,
50	355	170, and 2070L Controlle
55	420	

Volume Density Operation

rs

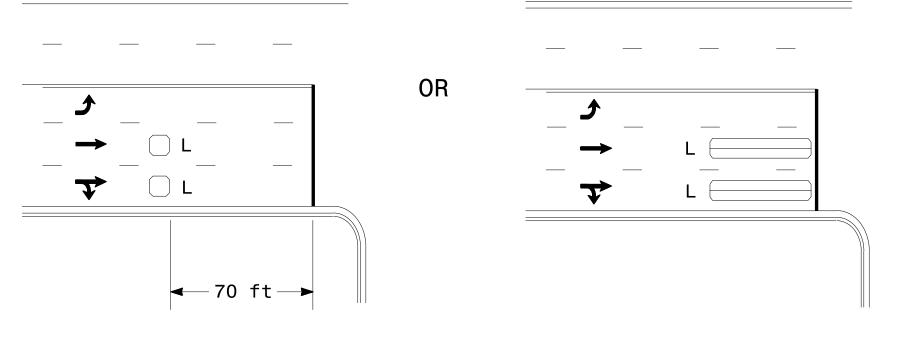
Speed Limit ft 250 80 90 355 100 110

"Stretch" Operation

 $L2 = 6ft \times 6ft$ Wired in series

L1 = 6ft X 6ft

Wired in series



L = 6ft X 6ftWired in series

L = 6ft X 40ftQuadrupole loop, wired separately

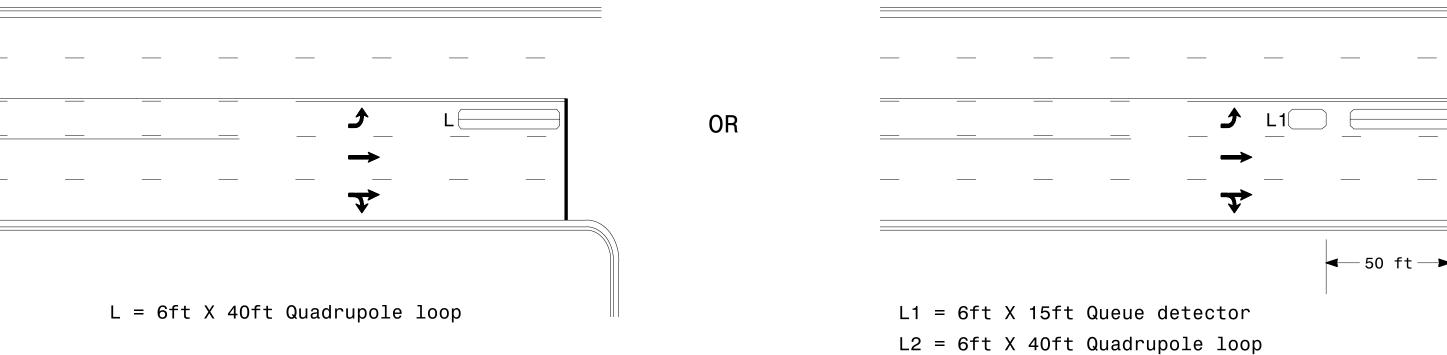
Right Turn Lane Detection

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

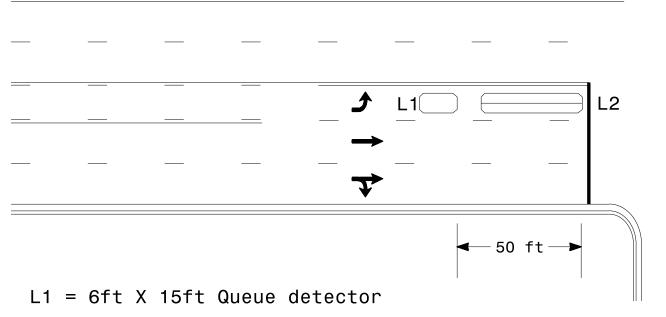
L1 = 6ft X 40ft Quadrupole loop

Wired separately

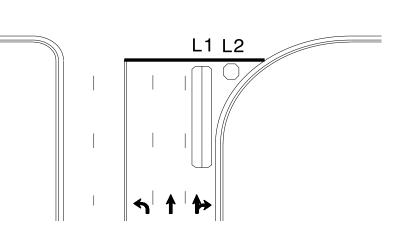
## Left Turn Lane Detection



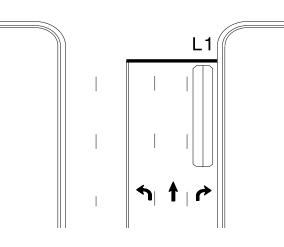
Presence Loop Detection



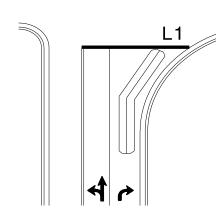
Queue Loop Detection



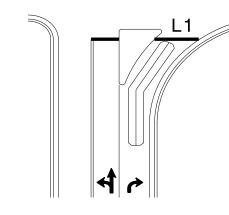
Shared Lane/ Wide Radius Turn



Standard Turn

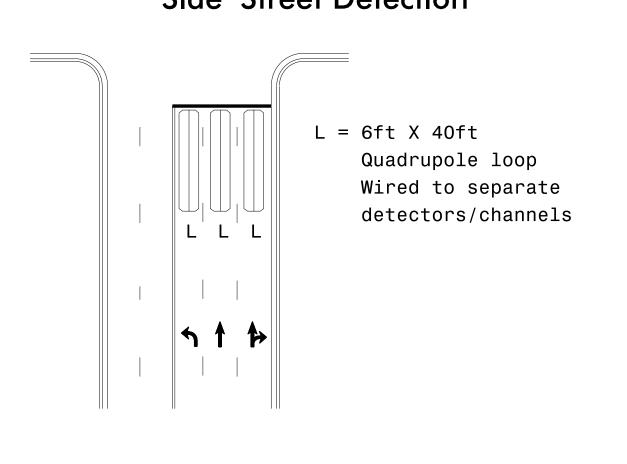


Wide Radius Turn

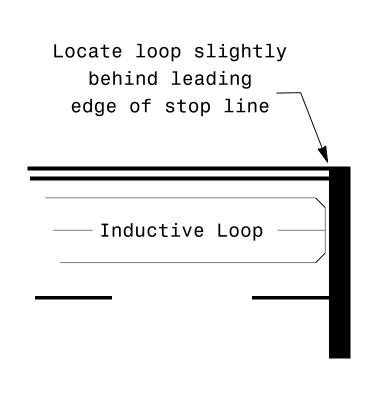


Channelized Turn

## Side Street Detection



## 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):

ion wired separatory,				
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