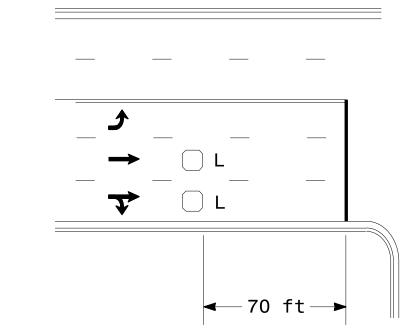
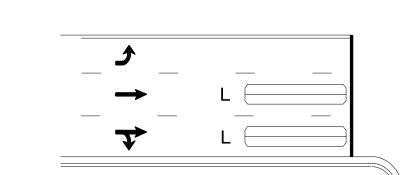




OR





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

Quadrupole loop, wired separately

L = 6ft X 40ft

Right Turn Lane Detection

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

L1 = 6ft X 40ft Quadrupole loop

Wired separately

Volume Density Operation

Wired in series for TS1

Wired separately for TS2,

170, and 2070L Controllers

Controllers

 $L = 6ft \times 6ft$

Speed Limit

40

45

50

55

ft

250

300

355

420

Speed Limit ft 250 80 45 300 90 50 355 100 110

"Stretch" Operation

→ □ L2

− D2 ----

L1 = 6ft X 6ft

L2 = 6ft X 6ft

Wired in series

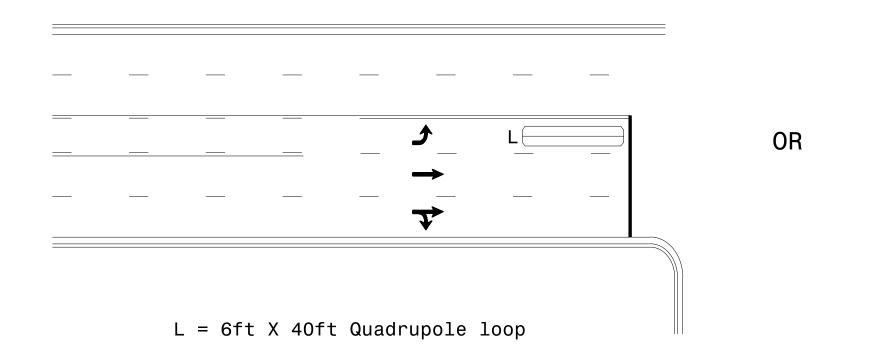
Wired in series

Left Turn Lane Detection

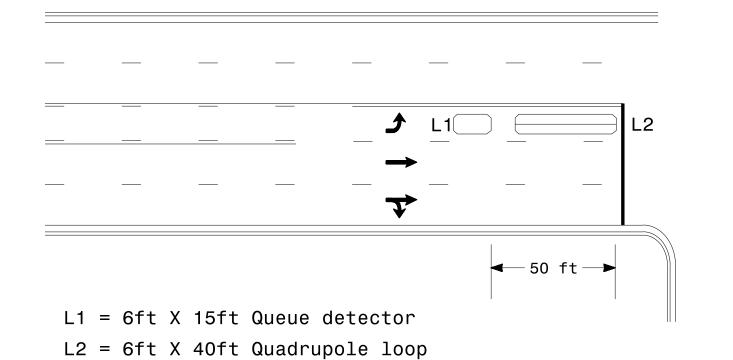
High Speed Detection

(≥40 mph)

OR



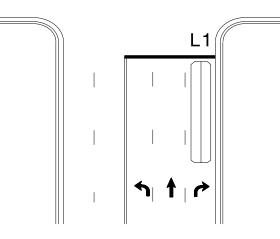
Presence Loop Detection



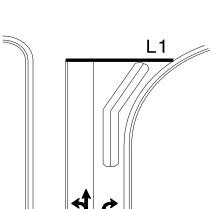
Queue Loop Detection

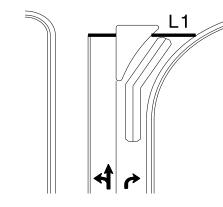
↑ ↑ **→**

Shared Lane/ Wide Radius Turn



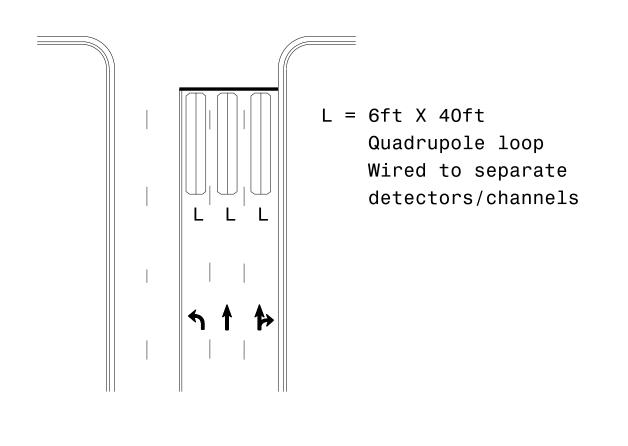




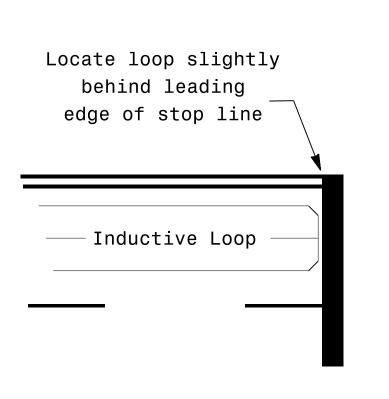


Channelized Turn

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):

HEH WILEG	Separatery).
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: PLA REVIEWED BY: REVISIONS INIT. DATE

PL Alexander