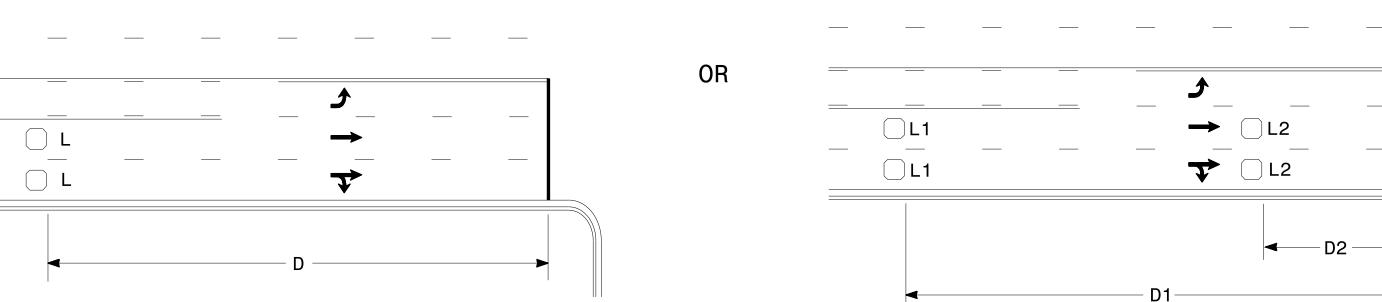


L1 = 6ft X 6ft

 $L2 = 6ft \times 6ft$

Wired in series

Wired in series



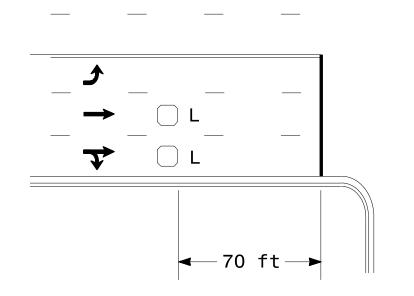
Speed Limit mph	D ft	L = 6ft X 6ft Wired in series for TS1
40	250	Controllers
45	300	Wired separately for TS2
50	355	170, and 2070L Contr
55	420	

Volume Density Operation

for TS2, Controllers

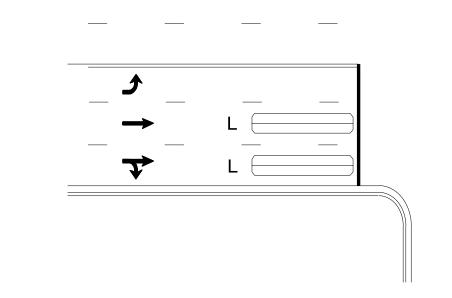
Speed Limit ft 250 80 300 90 50 355 100 110

"Stretch" Operation



OR

L = 6ft X 6ftWired in series



L = 6ft X 40ftQuadrupole loop, wired separately

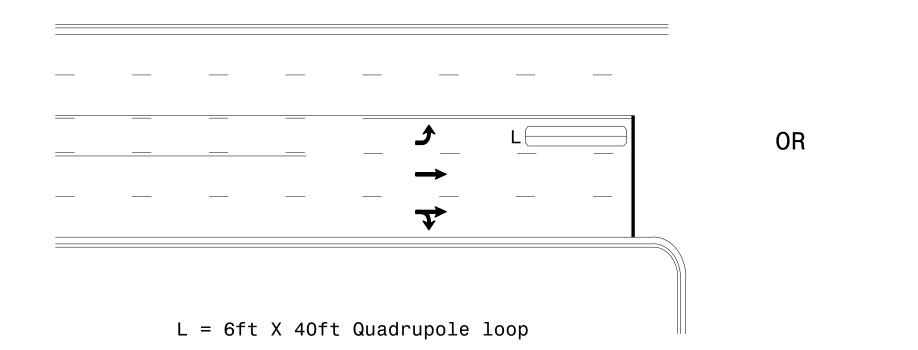
Right Turn Lane Detection

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

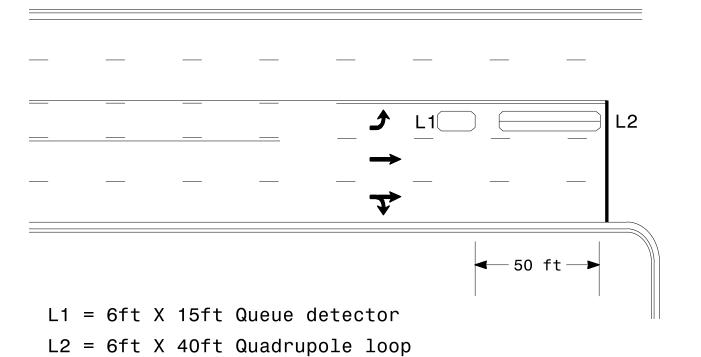
L1 = 6ft X 40ft Quadrupole loop

Wired separately

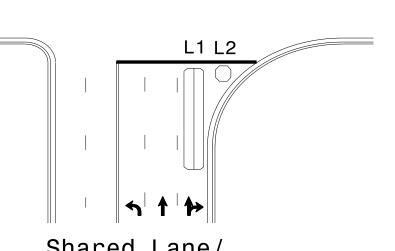
Left Turn Lane Detection



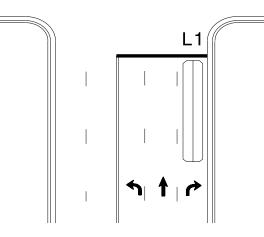
Presence Loop Detection



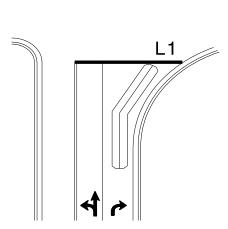
Queue Loop Detection



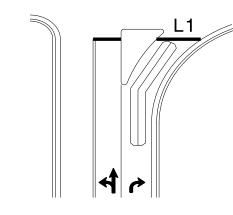
Shared Lane/ Wide Radius Turn



Standard Turn

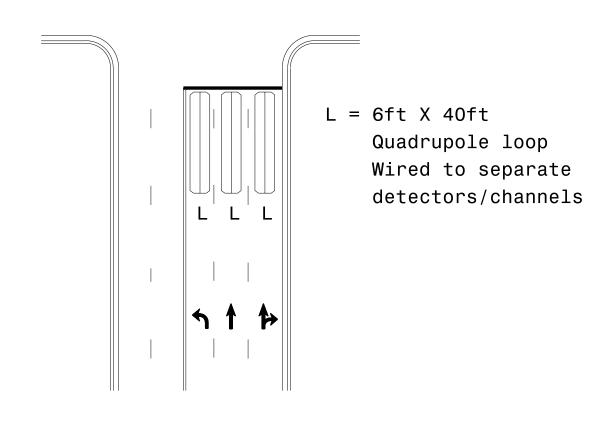


Wide Radius Turn

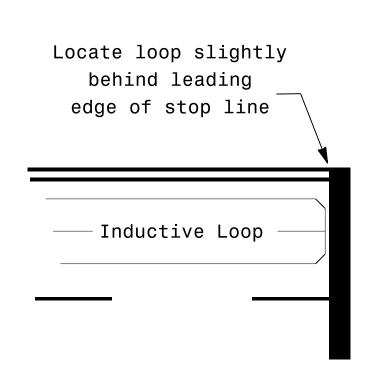


Channelized Turn

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

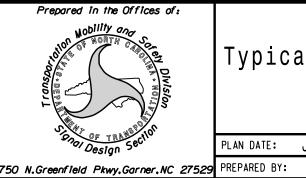
Recommended Number of Turns

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

ich wirca sc	paracery):
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