

"Stretch" Operation

Speed Limit	D	
mph	ft	L = 6ft X 6ft Wired in s
40	250	Contro
45	300	 Wired sepa
50	355	170, 8
55	420]

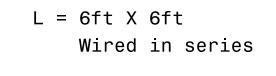
Volume Density Operation

series for TS1 rollers parately for TS2, and 2070L Controllers

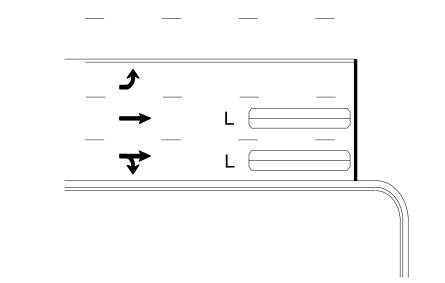
Speed Limit ft 250 80 45 300 90 50 355 100 110

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

L1 = 6ft X 6ftWired in series



← 70 ft →



OR

L = 6ft X 40ftQuadrupole loop, wired separately

Right Turn Lane Detection

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

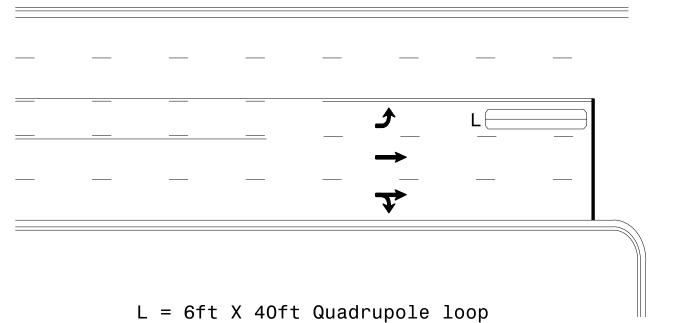
L1 = 6ft X 40ft Quadrupole loop

Wired separately

Left Turn Lane Detection

OR

OR

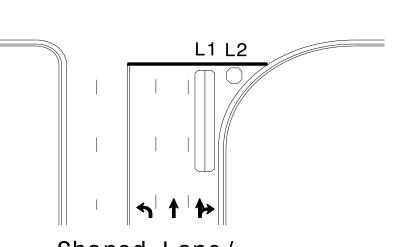




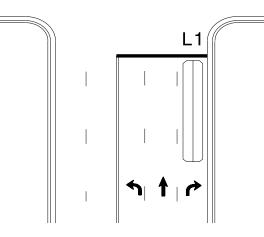
Presence Loop Detection

← 50 ft **→** L1 = 6ft X 15ft Queue detector L2 = 6ft X 40ft Quadrupole loop

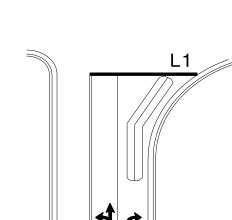
Queue Loop Detection



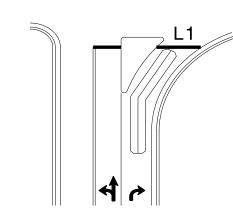
Shared Lane/ Wide Radius Turn



Standard Turn

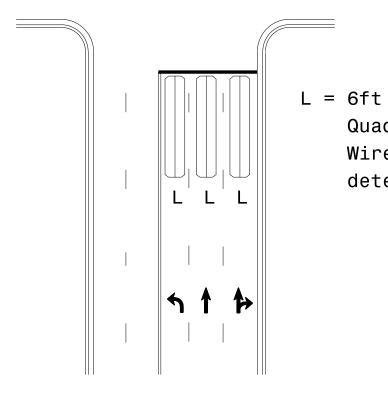


Wide Radius Turn



Channelized Turn

Side Street Detection



L = 6ft X 40ftQuadrupole loop Wired to separate detectors/channels

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):

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: 750 N.Greenfield Pkwy.Garner.NC 27529 PREPARED BY: REVIEWED BY: PLA REVISIONS INIT. DATE

PL Alexander