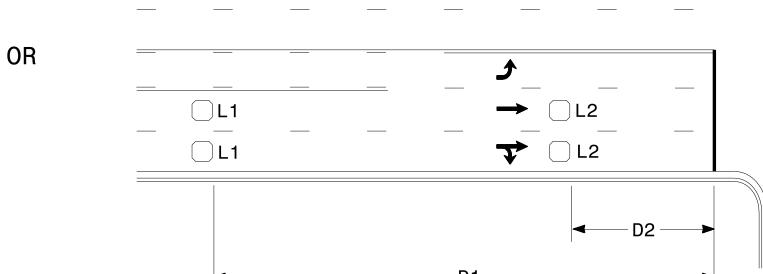
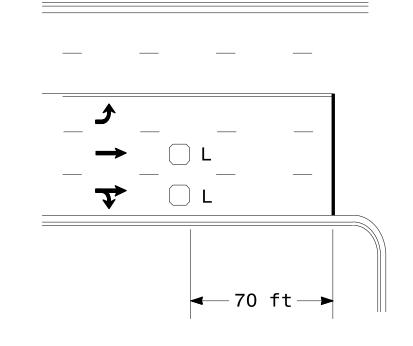


 $L = 6ft \times 6ft$



L1		*	L2
			4
4		D1	'
Speed Limit	D1	D2 ft	

L1 = 6ft X 6ft Wired in series L2 = 6ft X 6ftWired in series



Low Speed Detection (≤35 mph)

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

Speed Limit ft 250 40 300 45 355 50 420 55

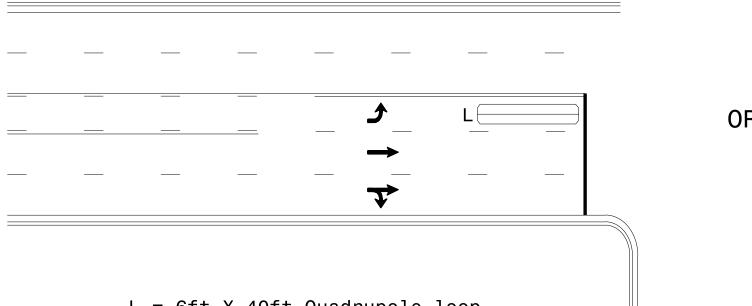
Wired in series for TS1 Controllers Wired separately for TS2, 170, and 2070L Controllers

50 355 100 110

250

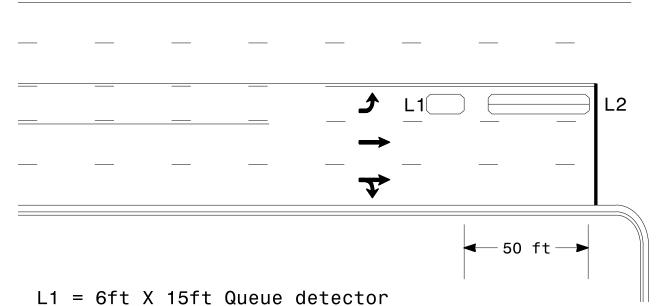
Volume Density Operation

Left Turn Lane Detection



L = 6ft X 40ft Quadrupole loop

Presence Loop Detection



80

90

"Stretch" Operation

L2 = 6ft X 40ft Quadrupole loop

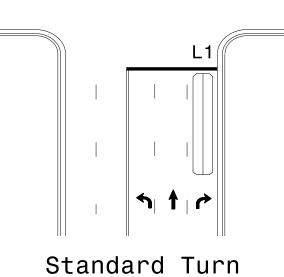
Queue Loop Detection

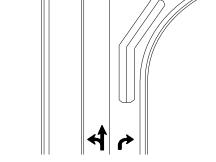
↑ ↑ **→**

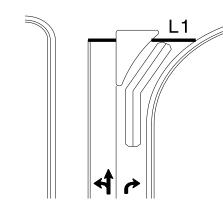
Shared Lane/ Wide Radius Turn

 $L = 6ft \times 6ft$

Wired in series



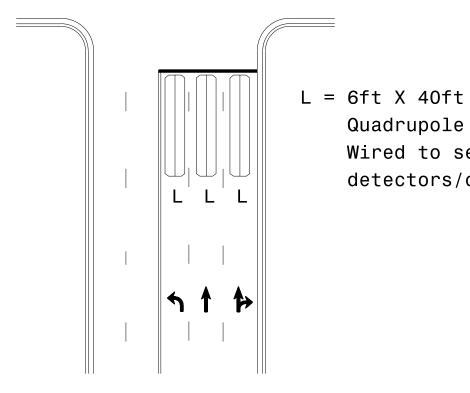




Wide Radius Turn

Channelized Turn

Side Street Detection



Quadrupole 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 wirda sch	Jaracciy, 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



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

N/A

SCALE