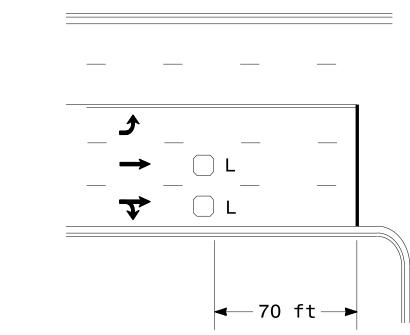
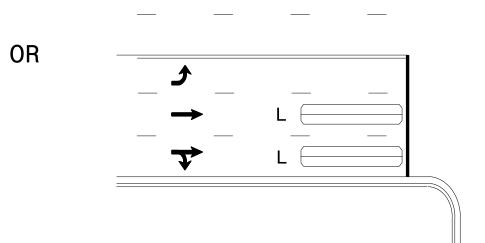


Low Speed Detection (≤35 mph)





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

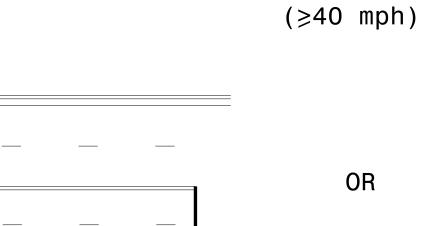
L = 6ft X 40ftQuadrupole loop, wired separately

Right Turn Lane Detection

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

L1 = 6ft X 40ft Quadrupole loop

Wired separately



OR

High Speed Detection

	 →	
L1	→ □L2	
□ L1		
	←	— D2 — →
	ı	
	D1	
	D I	

"Stretch" Operation

Speed Limit	D
mph	ft
40	250
45	300
50	355
55	420

 $L = 6ft \times 6ft$ Wired in series for TS1 Controllers Wired separately for TS2, 170, and 2070L Controllers

Speed Limit ft 250 80 45 300 90 50 355 100 55 110

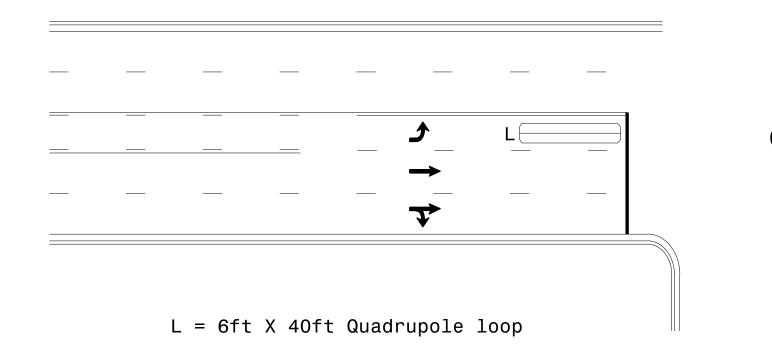
L1 = 6ft X 6ft

 $L2 = 6ft \times 6ft$

Wired in series

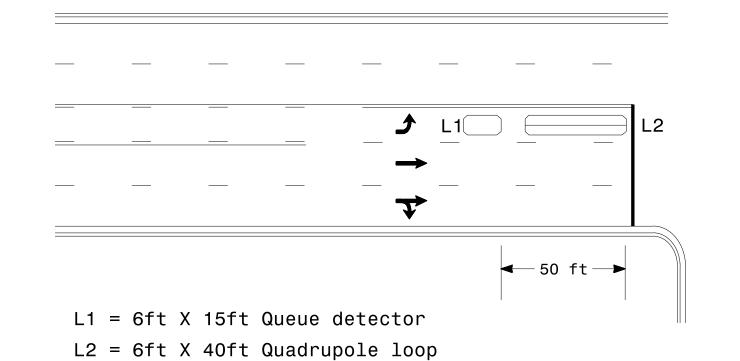
Wired in series

Left Turn Lane Detection

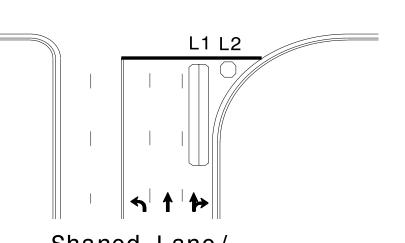


Presence Loop Detection

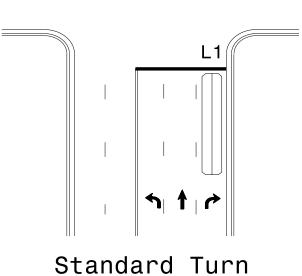
Volume Density Operation

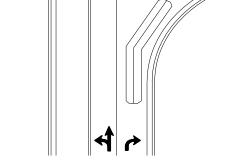


Queue Loop Detection



Shared Lane/ Wide Radius Turn

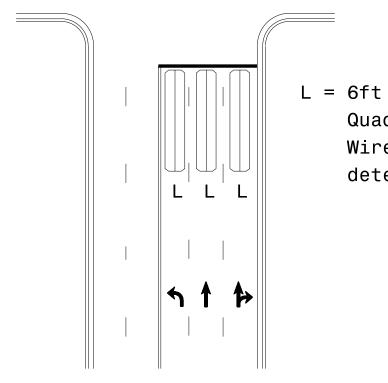




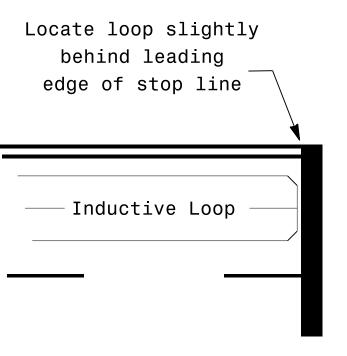
Wide Radius Turn

Channelized Turn

Side Street Detection



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



Note:

Presence Loop Placement at Stop Lines

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

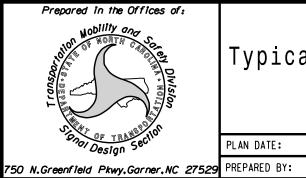
Recommended Number of Turns

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

ICH WILCO SC	рага соту / т
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: REVIEWED BY: PLA REVISIONS INIT. DATE

PL Alexander

SCALE N/A