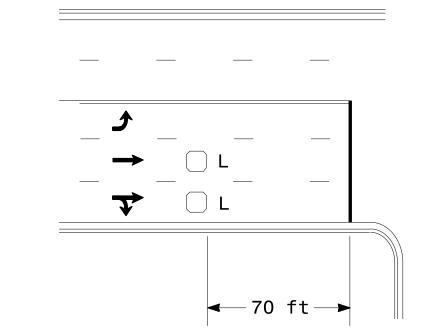
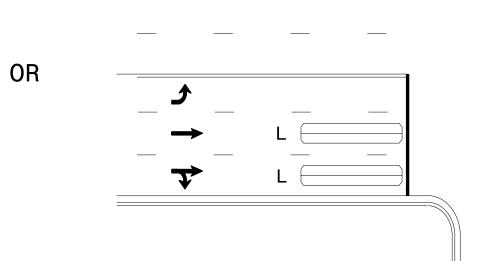


Low Speed Detection (≤35 mph)





L = 6ft X 6ft Wired in series

L = 6ft X 40ft Quadrupole loop, wired separately

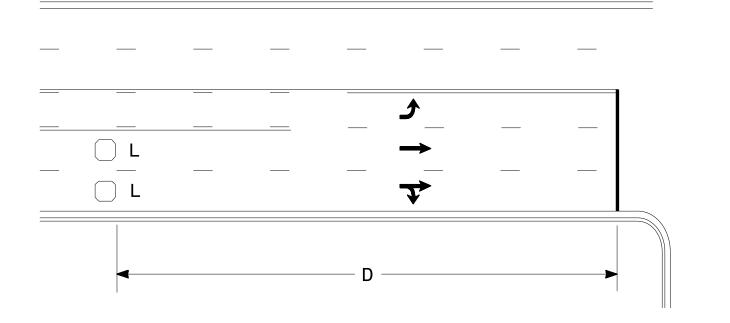
Right Turn Lane Detection

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

L1 = 6ft X 40ft Quadrupole loop

Wired separately

High Speed Detection (≥40 mph)



OR		•
	•	— D2 — ► — D1 — ►

Speed Limit mph	D ft	L = 6ft Wire
40	250	
45	300	Wire
50	355	_
55	420	

Volume Density Operation

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

 Speed Limit
 D1
 D2

 mph
 ft
 ft

 40
 250
 80

 45
 300
 90

 50
 355
 100

 55
 420
 110

"Stretch" Operation

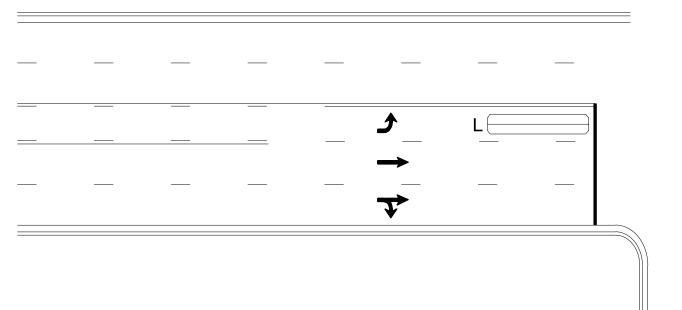
L1 = 6ft X 6ft

 $L2 = 6ft \times 6ft$

Wired in series

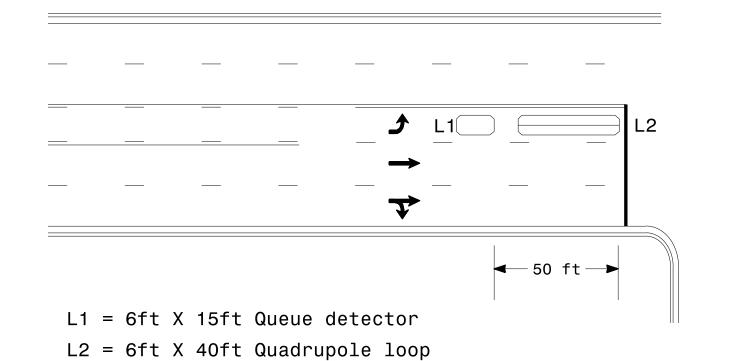
Wired in series

Left Turn Lane Detection



L = 6ft X 40ft Quadrupole loop

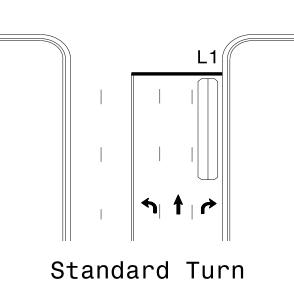
Presence Loop Detection

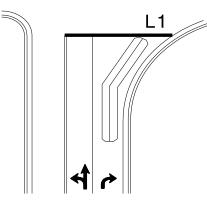


Queue Loop Detection

L1 L2

Shared Lane/ Wide Radius Turn

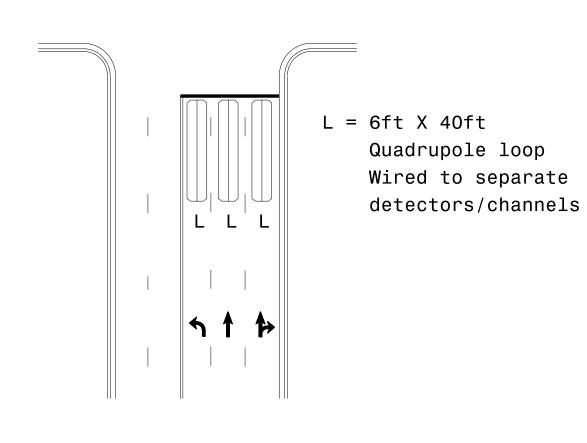




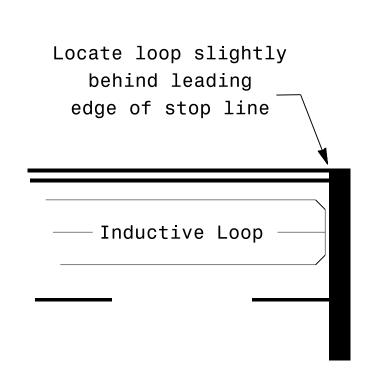
Wide Radius Turn

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:

- 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

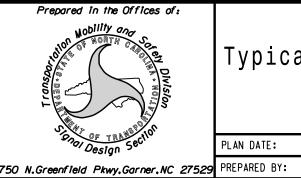
Recommended Number of Turns

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

Ten wined ee	paracory, 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



SCALE

N/A

Typical Signal Loop Locations

PLAN DATE: January 2015 REVIEWED BY: JPG
PREPARED BY: PLA REVIEWED BY:

REVISIONS INIT. DATE

Docusigned by:

ALEXANDER

Docusigned by:

ALEXANDER

1/30/201

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SIG. INVENTORY NO.

30-JAN-2015 12:39 S:*ITS&SU*ITS Signals*Signal