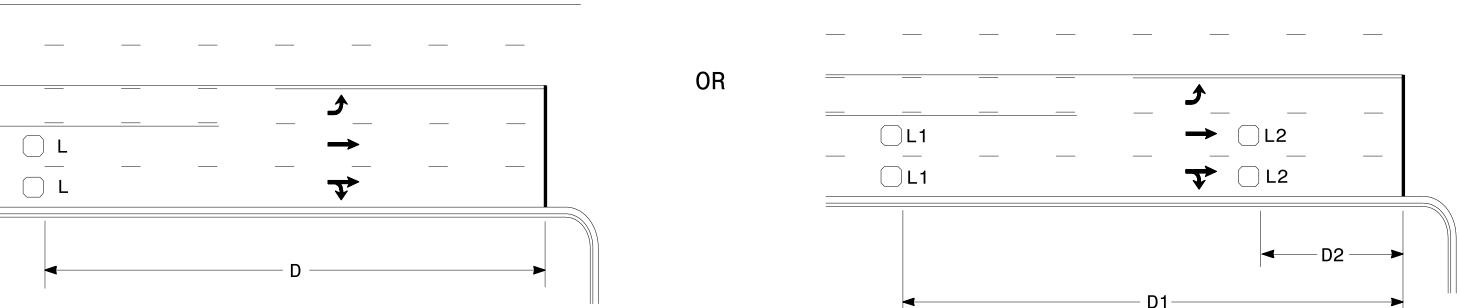


L1 = 6ft X 6ft

 $L2 = 6ft \times 6ft$

Wired in series

Wired in series



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

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

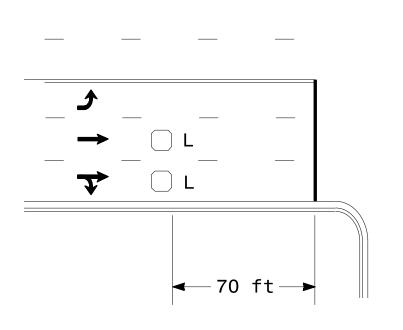
 40
 250
 80

 45
 300
 90

 50
 355
 100

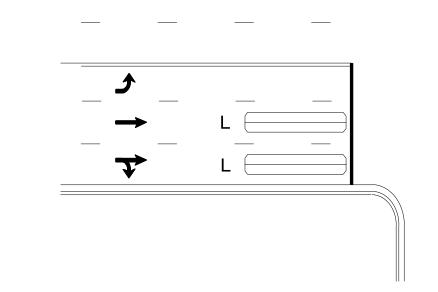
 55
 420
 110

"Stretch" Operation



OR

L = 6ft X 6ft Wired in series



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

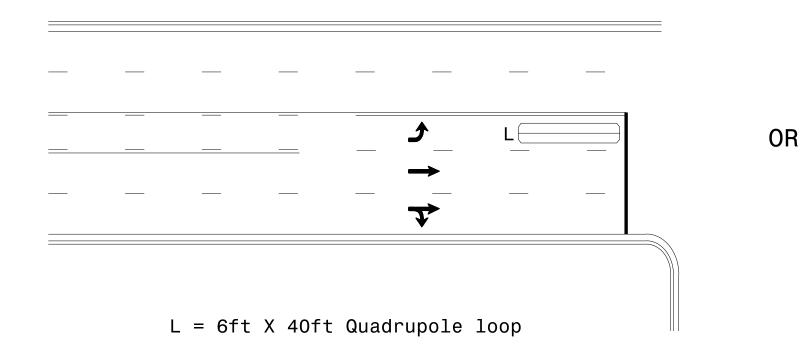
Right Turn Lane Detection

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

L1 = 6ft X 40ft Quadrupole loop

Wired separately

Left Turn Lane Detection

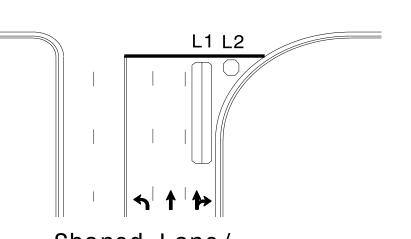


Presence Loop Detection

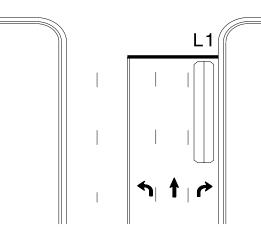
Volume Density Operation

L1 = 6ft X 15ft Queue detector
L2 = 6ft X 40ft Quadrupole loop

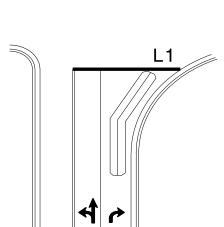
Queue Loop Detection



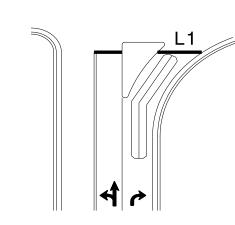
Shared Lane/ Wide Radius Turn



Standard Turn

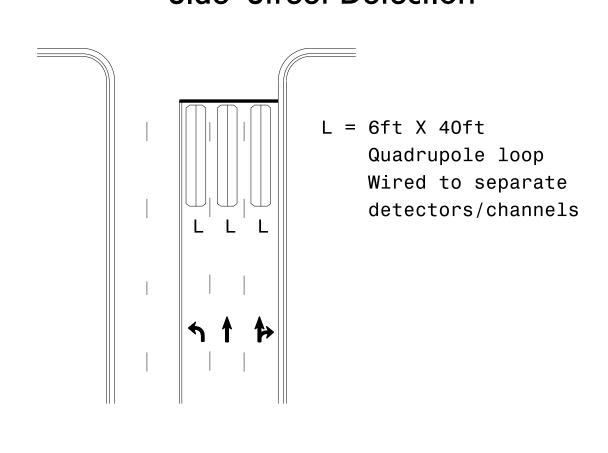


Wide Radius Turn

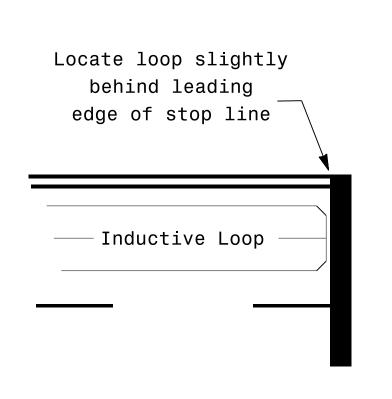


Channelized Turn

Side Street Detection



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

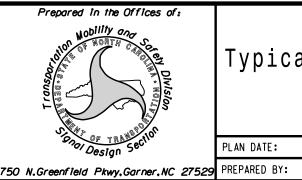
Recommended Number of Turns

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

1011 WIT 04 00par 4 0 1 1 1	
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

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

TS&SU*ITS Signo