

Speed Limit	D	1 :
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

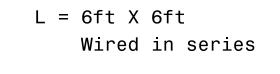
 45
 300
 90

 50
 355
 100

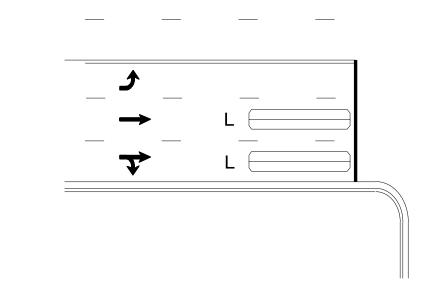
 55
 420
 110

L2 = 6ft X 6ft Wired in series

L1 = 6ft X 6ft Wired in series



← 70 ft →



OR

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

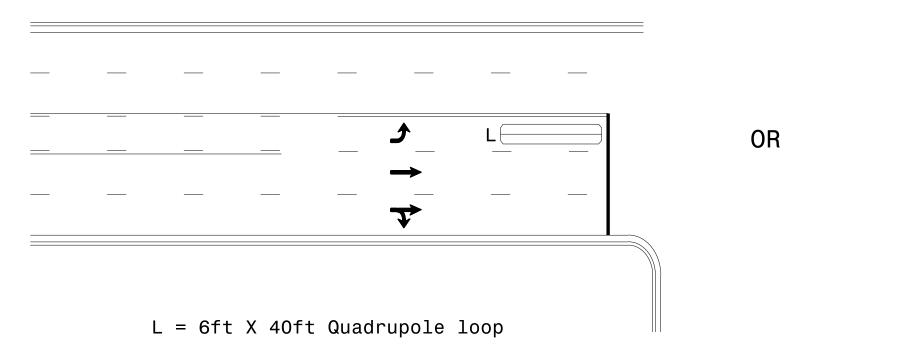
Right Turn Lane Detection

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

L1 = 6ft X 40ft Quadrupole loop

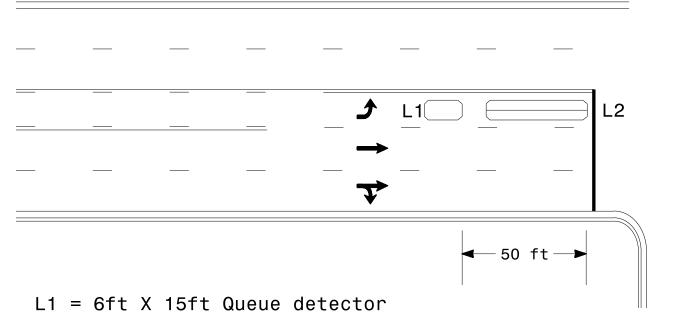
Wired separately

Left Turn Lane Detection



Presence Loop Detection

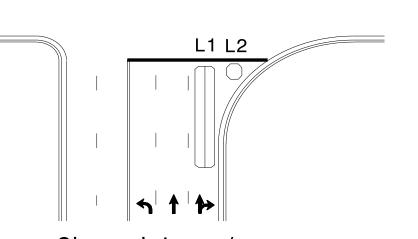
Volume Density Operation



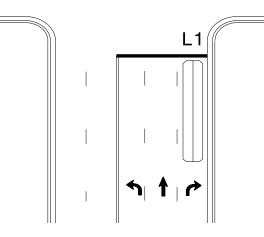
Queue Loop Detection

L2 = 6ft X 40ft Quadrupole loop

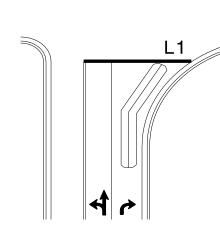
"Stretch" Operation



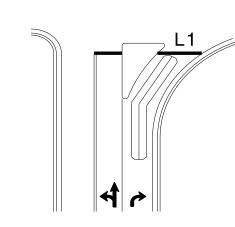
Shared Lane/ Wide Radius Turn



Standard Turn

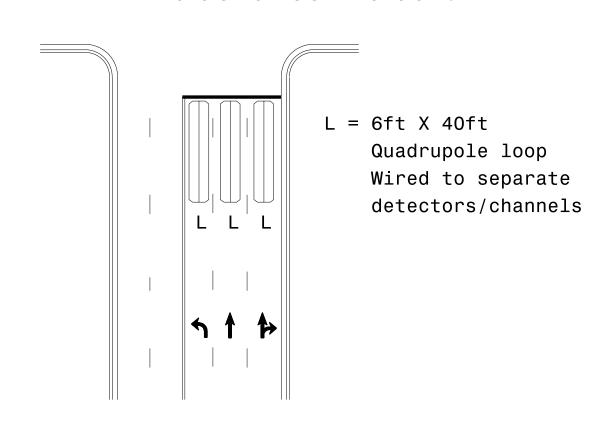


Wide Radius Turn

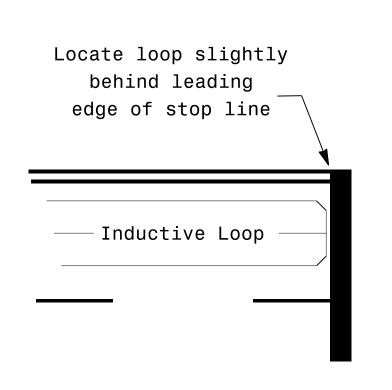


Channelized Turn

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

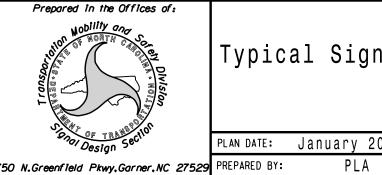
Recommended Number of Turns

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

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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

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,,,,	PLAN DATE:	January 2015	REVIEWED BY:	JPG]
er.NC 27529	PREPARED BY:	PLA	REVIEWED BY:			
	REVISIONS			INIT.	DATE	1
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