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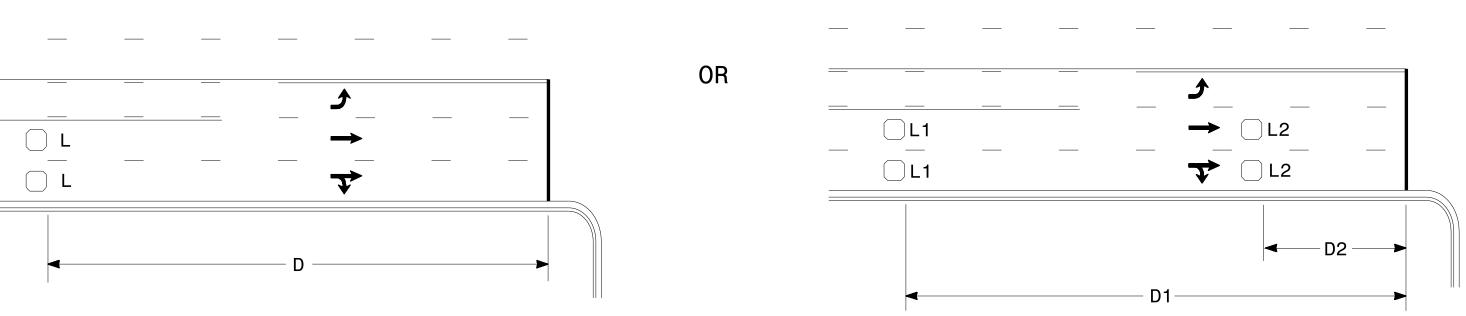


L1 = 6ft X 6ft

L2 = 6ft X 6ft

Wired in series

Wired in series

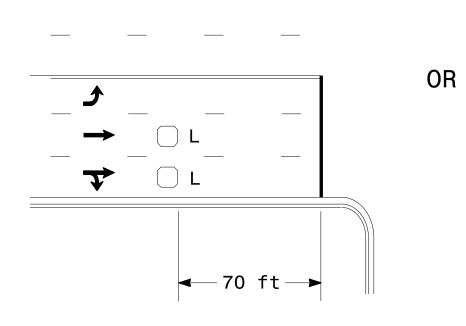


Speed Limit mph	D ft	L = 6ft X 6ft Wired in series for TS1
40	250	Controllers
45	300	Wired separately for TS2,
50	355	170, and 2070L Controllers
55	420]

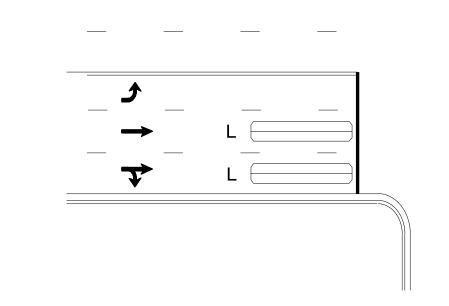
Volume Density Operation

Speed Limit ft 250 80 90 355 100 110

"Stretch" Operation



L = 6ft X 6ftWired in series



L = 6ft X 40ftQuadrupole loop, wired separately

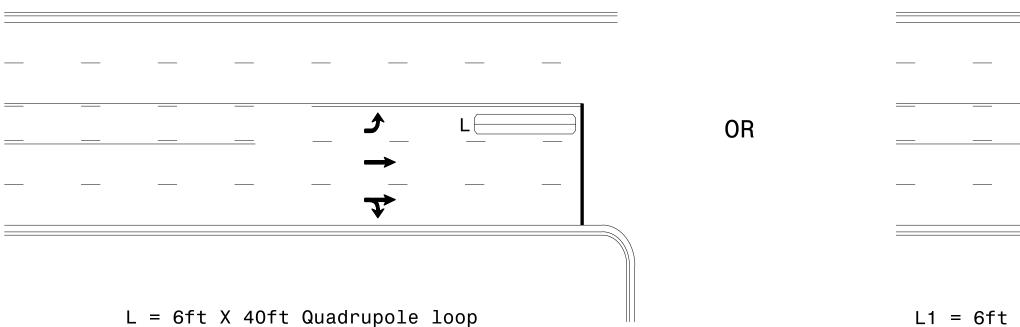
Right Turn Lane Detection

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

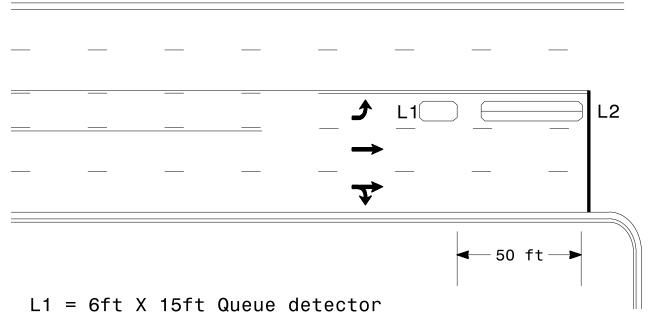
L1 = 6ft X 40ft Quadrupole loop

Wired separately

Left Turn Lane Detection

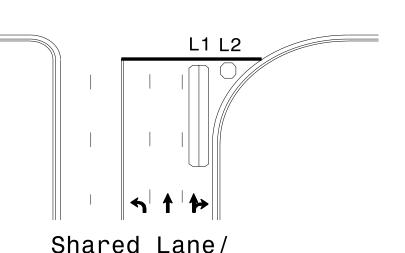


Presence Loop Detection

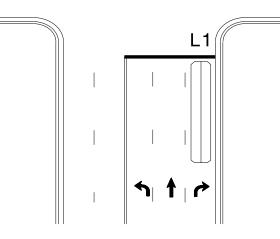


Queue Loop Detection

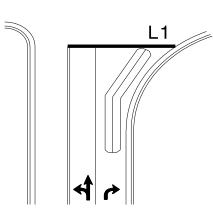
L2 = 6ft X 40ft Quadrupole loop



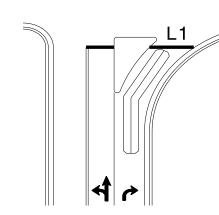
Shared Lane/ Wide Radius Turn



Standard Turn

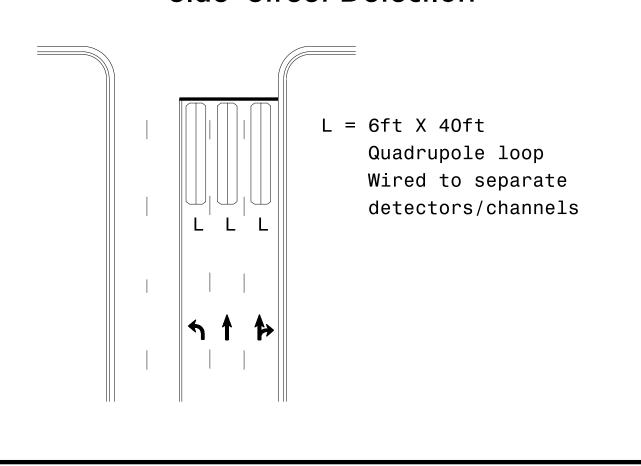


Wide Radius Turn

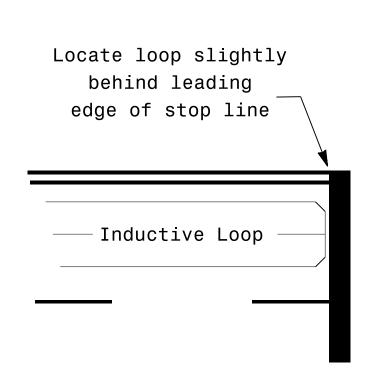


Channelized Turn

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:

- 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

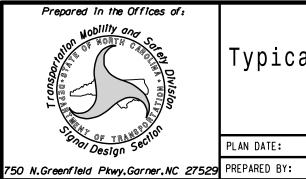
Single 6' X 6' loop (when wired separately):

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: REVIEWED BY: PLA REVISIONS INIT. DATE

PL Alexander