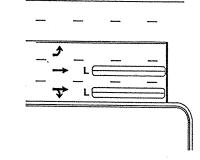


L = 6ft X 6ft (1.8m X 1.8m) Wired in series

Standard Turn

Wide Radius Turn



 $L = 6ft \times 60ft (1.8m \times 18.0m)$ Quadrupole loop, wired separately

Right Turn Lane Detection

L1 = 6ft X 60ft (1.8m X 18.0m) Quadrupole loop L2 = 6ft X 6ft (1.8m X 1.8m) [Minimum] Presence loop

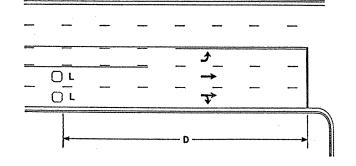
L3 = 6ft X 30ft (1.8m X 9.0m) Quadrupole loop

Wired separately

Wired in series

High Speed Detection [>40 mph (64 km/hr)]

OR



Speed Limit mph (km/hr) ft (m) 250 (75) 40 (64) 45 (72) 300 (90) 50 (80) 355 (110) 55 (88) 420 (130)

 $L = 6ft \times 6ft (1.8m \times 1.8m)$ Wired in series for TS1 Controllers Wired separately for TS2. 170, and 2070L Controllers

Volume Density Operation

Speed Limit		- D1		D2		
mph	(km/hr)	ft	(m)	ft	(m)	
40	(64)	250	(75)	80	(25)	
45	(72)	300	(90)	90	(27)	
50	(80)	355	(110)	100	(30)	
55	(88)	420	(130)	110	(35)	

OL1

"Stretch" Operation

→ □ L2

L1 = 6ft X 6ft

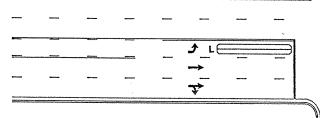
L2 = 6ft X 6ft

(1.8m X 1.8m)

(1.8m X 1.8m)

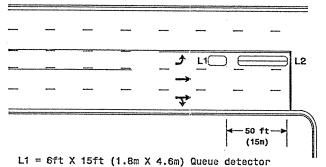
Wired in series

Wired in series



L = 6ft X 60ft (1.8m X 18.0m) Quadrupole loop or, with limited space: 6ft X 50ft (1.8m X 15.0m) Quadrupole loop or 6ft X 40ft (1.8m X 12.0m) Quadrupole loop

Presence Loop Detection



L2 = 6ft X 40ft (1.8m X 12.0m) Quadrupole loop

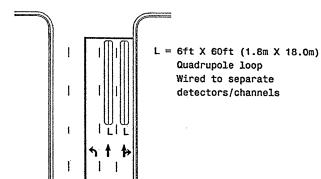
Left Turn Lane Detection

OR

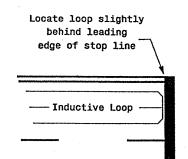


Queue Loop Detection

Side Street Detection



Presence Loop Placement at Stop Lines



Loop may be located in advance of stop line when stop line is greater than 15' (4.5m) from edge of intersecting roadway; or, when loop detects a permitted or exclusive/permitted left turn.

Single 6' X 6' (1.8m X 1.8m) loop (wired separately):

(oopa. acom)/.					
Length of Lead-in ft (m)	Number of Turns				
< 250 (75)	3				
250-375 (75-115)	4				
375-525 (115-160)	5				
> 525 (160)	6				

Recommended Number of Turns

Quadrupole loops: Use 2-4-2 turns

6' X 15' (1.8m X 4.6m) Loops: Lead-in < 150' (45 m), use 2 turns Lead-in > 150' (45 m), use 3 turns

	Typical Loop Locations					SEAL CARO
Genetric's	PLAN DATE:	July 2003	REVIEWED BY:			CENTILL RES
22 N. McDowell St., Roleigh, NC 27683	PREPARED BY:	P L Alexander	REVIEWED BY:			MI ENTER
SCALE		REVISIONS		INIT.	DATE	Marininin 1
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N/A			***************************************			SIGNATURE DATE.
					1	SIG. INVENTORY NO.

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