

 $L1 = 6ft \times 6ft$

L2 = 6ft X 6ft

(1.8m X 1.8m)

(1.8m X 1.8m) Wired in series

Wired in series

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

 \bigcirc r

0 L

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

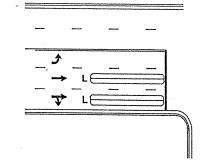
Volume Density Operation

| 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) |

"Stretch" Operation

| <u> </u> | |
|---------------|--|
| → Or | |
| <70 ft> (20m) | |

 $L = 6ft \times 6ft (1.8m \times 1.8m)$ Wired in series



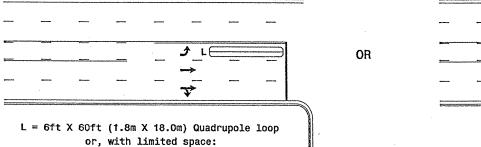
 $L = 6ft \times 60ft (1.8m \times 18.0m)$ Quadrupole loop, wired separately

Left Turn Lane Detection

High Speed Detection

[>40 mph (64 km/hr)]

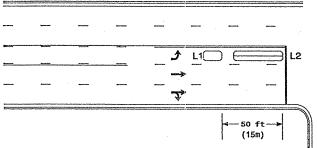
OR



or 6ft X 40ft (1.8m X 12.0m) Quadrupole loop

6ft X 50ft (1.8m X 15.0m) Quadrupole loop

Presence Loop Detection



L1 = 6ft X 15ft (1.8m X 4.6m) Queue detector L2 = 6ft X 40ft (1.8m X 12.0m) Quadrupole loop

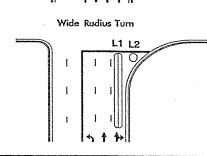
Queue Loop Detection

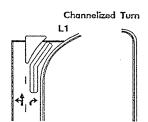
Standard Turn

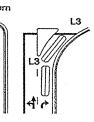
Right Turn Lane Detection

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

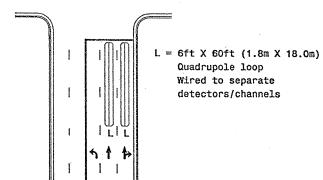
L3 = 6ft X 30ft (1.8m X 9.0m) Quadrupole loop Wired in series



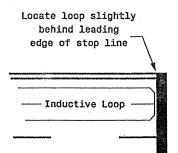




Side Street Detection



Presence Loop Placement at Stop Lines



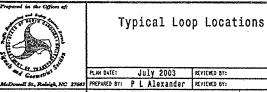
Note: Loop may be located in advance of stop line when stop line is greater than 15' (4.5m) from edge of intersecting roadway; or, when loop detects a permitted or exclusive/permitted left turn.

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

| toob ("T' oa och | our accip, |
|--------------------------------|--------------------|
| 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



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