

Synchro v9

OPTIONS

Map setting

Intersection paths on

Network Settings

Peak Hour Factor – 0.90 (use calculated PHF if available for existing and open date, use 0.9 for design year)

Yellow – 4 sec

Red – 2 sec

Offset style – Begin of Yellow

Min split through – 22 sec

Min split left – 15 sec

Simulation taper length – 100 ft

Crosswalk width – 10 ft

Uncheck lead/lag optimize

Uncheck Fixed force-offs

Detector Templates

HCM 6th Edition

Left – Det1 0, size 30 (District 5 use Det1 50, size 30)

Thru – 30 mph – Det1 80, size 6

35 mph – Det1 200, size 6

40 mph – Det1 300, size 6

45 mph – Det1 330, size 6 default

50 mph – Det1 370, size 6

55 mph – Det1 445, size 6

60 mph – Det1 485, size 6

Generally for side streets, use loops at stop bar (leading to 0)

HCM 2010 Requires stop line detection

Left – Det1 0 (size 5, call only), Det2 50, size 30

Thru – Det1 0 (size 5, call only), Det2 255, Det3 385

Generally for side streets, use loops at stop bar (leading to 0)

Phase Templates

Edit template phases – 2 & 6 on mainline (label clockwise)

Simtraffic

Intervals and volumes

Seed 15 min*, record 60

* for large networks seeding should cover saturating network

Queuing Analysis – Run 10 separate 1 hour simulations and average the 95th percentile queues

Place file named defaults.syn in the trafficware directory where Synchro is installed