**CMAQ FY 2020-2024 INPUT MODULE WORKSHEET** [ ]  Before Improvement

(Complete one worksheet for before conditions and one worksheet for after conditions [ ]  After Improvement

|  |  |
| --- | --- |
| **General Information** | **Site Information** |
| Analysis Time Period: **PM Peak**Analysis Year  | Intersection Area Type [ ]  CBD [ ]  Other Jurisdiction  |
| **Intersection Geometry (draw or attach)** |
|  |
| **Volume and Timing Input** |
|  | EB | WB | NB | SB |
| LT | TH | RT1 | LT | TH | RT1 | LT | TH | RT1 | LT | TH | RT1 |
| Volume, V (veh/h) |  |  |  |  |  |  |  |  |  |  |  |  |
| % heavy vehicles, % HV |  |  |  |  |  |  |  |  |  |  |  |  |
| Peak-hour factor, PHF |  |  |  |  |  |  |  |  |  |  |  |  |
| Pretimed (P) or actuated (A) |  |  |  |  |  |  |  |  |  |  |  |  |
| Start-up lost time, I1 (s) |  |  |  |  |  |  |  |  |  |  |  |  |
| Extension of effective green time, e (s) |  |  |  |  |  |  |  |  |  |  |  |  |
| Arrival type, AT |  |  |  |  |  |  |  |  |  |  |  |  |
| Approach pedestrian volume,2 vped (p/h) |  |  |  |  |
| Approach bicycle volume,2 vbic (bicycles/h) |  |  |  |  |
| Parking (Y or N) |  |  |  |  |
| Parking maneuvers, Nm, (maneuvers/h) |  |  |  |  |
| Bus Stopping, NB (buses/h) |  |  |  |  |
| Min. timing for pedestrians,3 Gp (s) |  |  |  |  |
| **Signal Phasing Plan** |
| Diagram | 01 | 02 | 03 | 04 | 05 | 06 | 07 | 08 |
| Timing | G=Y= | G=Y= | G=Y= | G=Y= | G=Y= | G=Y= | G=Y= | G=Y= |
| Protected turns  | Permitted turnsPedestrian  | Cycle length, C = s |
| **Notes** |
| 1. RT volumes, as shown, exclude ROR
2. Approach pedestrian and bicycle volumes are those that conflict with right turns from the subject approach.
3. Refer to Equation 16-2
 |

**ACTUATED CONTROLLER PROPERTIES**

Scheme:

[ ]  Reverse

 1 2 3 4

1

 5 6 7 8

[ ]  Reverse

Phase Settings (All times are in seconds)

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Phase | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
| Max Green |  |  |  |  |  |  |  |  |
| Min Green |  |  |  |  |  |  |  |  |
| Amber |  |  |  |  |  |  |  |  |
| All Red |  |  |  |  |  |  |  |  |
| Veh. Ext. |  |  |  |  |  |  |  |  |
| Min Recall | [ ]  | [ ]  | [ ]  | [ ]  | [ ]  | [ ]  | [ ]  | [ ]  |
| Max Recall | [ ]  | [ ]  | [ ]  | [ ]  | [ ]  | [ ]  | [ ]  | [ ]  |

**ACTUATED CONTROLLER COORDINATION**

Use Coordination [ ]  Note: All times are in seconds

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Phase | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
| Force-off |  | 0 |  |  |  | 0 |  |  |
| Phase can terminate before force-off | [ ]  | [ ]  | [ ]  | [ ]  | [ ]  | [ ]  | [ ]  | [ ]  |
| Permissive 1 | [ ]  | [ ]  | [ ]  | [ ]  | [ ]  | [ ]  | [ ]  | [ ]  |
| Period 2 | [ ]  | [ ]  | [ ]  | [ ]  | [ ]  | [ ]  | [ ]  | [ ]  |
| Flags | [ ]  | [ ]  | [ ]  | [ ]  | [ ]  | [ ]  | [ ]  | [ ]  |

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  | Yield Point |  | Cycle Length |  |
|  |  |  |  |  |
| Extended Side-Street Leading Left-Turn Phases |
| Phase |  | Duration |  |
|  |  |  |  |
| Phase |  | Duration |  |

Permissive Periods

|  |
| --- |
| Begin Times |
| 1 |  | 2 |  | 3 |  |
|  |
| End Times |
| 1 |  | 2 |  | 3 |  |