SIGNAL WARRANT ANALYSIS WORKSHEETS

| Major Street Name: | Excelsior St. No. of Lanes: | 2 or more |
| :---: | :---: | :---: |
| Minor Street Name: | Eastbound Off $N$ No. of La | 1 |
| *Major street speed community with a popid | xceeds 40 mph or isolated pulation less than 10,000 ? | No |


| Condition A - Minimum Vehicular Volume |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| No. of Lanes |  | VPH total on major street |  |  |  | VPH on higher vol minor street |  |  |  |
| Major | Minor | $100 \%{ }^{\text {a }}$ | 80\% ${ }^{\text {b }}$ | $70 \%^{\text {c }}$ | $56 \%{ }^{\text {d }}$ | 100\% ${ }^{\text {a }}$ | $80 \%{ }^{\text {b }}$ | $70 \%{ }^{\text {c }}$ | $56 \%{ }^{\text {d }}$ |
| 1 | 1 | 500 | 400 | 350 | 280 | 150 | 120 | 105 | 84 |
| 2 | 1 | 600 | 480 | 420 | 336 | 150 | 120 | 105 | 84 |
| 2 | 2 | 600 | 480 | 420 | 336 | 200 | 160 | 140 | 112 |
| 1 | 2 | 500 | 400 | 350 | 280 | 200 | 160 | 140 | 112 |


| Condition B - Interupption of Continuous Traffic |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| No. of Lanes |  | VPH total on major street |  |  |  | VPH on higher vol minor street |  |  |  |
| Major | Minor | $100 \%{ }^{\text {a }}$ | $80 \%{ }^{\text {b }}$ | $70 \%^{\text {c }}$ | $56 \%{ }^{\text {d }}$ | 100\% ${ }^{\text {a }}$ | $80 \%{ }^{\text {b }}$ | $70 \%{ }^{\text {c }}$ | $56 \%{ }^{\text {d }}$ |
| 1 | 1 | 750 | 600 | 525 | 420 | 75 | 60 | 53 | 42 |
| 2 | 1 | 900 | 720 | 630 | 504 | 75 | 60 | 53 | 42 |
| 2 | 2 | 900 | 720 | 630 | 504 | 100 | 80 | 70 | 56 |
| 1 | 2 | 750 | 600 | 525 | 420 | 100 | 80 | 70 | 56 |

${ }^{\text {a }}$ Basic minimum hourly volume.
${ }^{\mathrm{b}}$ Used for combination of Conditions A and B after adequate trial of other remedial measures.
${ }^{\text {c }}$ May be used when the major-street speed exceeds 40 mph or in an Isolated community
with a population of less than 10,000 .
May be used for combination of Conditions A and B after adequate trial of other remedial measures when the major-
street speed exceeds $70 \mathrm{~km} / \mathrm{h}$ or exceeds 40 mpn in an isolated community with a population less than 10,000

|  | Traffic Volume |  |  |  | Total Major | Higher Minor |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Major Street 1 | Major Street 2 | Minor Street 1 | Minor Street 2 | Street Vol | Street Vol |
| 12:00 AM | 16 | 12 | 5 | 0 | 28 | 5 |
| 1:00 AM | 11 | 7 | 2 | 0 | 18 | 2 |
| 2:00 AM | 11 | 6 | 3 | 0 | 17 | 3 |
| 3:00 AM | 4 | 3 | 1 | 0 | 7 | 1 |
| 4:00 AM | 5 | 7 | 0 | 0 | 12 | 0 |
| 5:00 AM | 25 | 37 | 8 | 0 | 62 | 8 |
| 6:00 AM | 88 | 58 | 36 | 0 | 146 | 36 |
| 7:00 AM | 184 | 84 | 64 | 0 | 268 | 64 |
| 8:00 AM | 208 | 80 | 70 | 0 | 288 | 70 |
| 9:00 AM | 144 | 76 | 63 | 0 | 220 | 63 |
| 10:00 AM | 143 | 101 | 60 | 0 | 244 | 60 |
| 11:00 AM | 260 | 81 | 63 | 0 | 341 | 63 |
| 12:00 PM | 252 | 110 | 36 | 0 | 362 | 36 |
| 1:00 PM | 248 | 146 | 65 | 0 | 394 | 65 |
| 2:00 PM | 238 | 125 | 68 | 0 | 363 | 68 |
| 3:00 PM | 316 | 149 | 86 | 0 | 465 | 86 |
| 4:00 PM | 349 | 159 | 82 | 0 | 508 | 82 |
| 5:00 PM | 299 | 194 | 62 | 0 | 493 | 62 |
| 6:00 PM | 200 | 106 | 33 | 0 | 306 | 33 |
| 7:00 PM | 119 | 68 | 23 | 0 | 187 | 23 |
| 8:00 PM | 112 | 57 | 20 | 0 | 169 | 20 |
| 9:00 PM | 86 | 68 | 24 | 0 | 154 | 24 |
| 10:00 PM | 86 | 44 | 21 | 0 | 130 | 21 |
| 11:00 PM | 66 | 22 | 19 | 0 | 88 | 19 |


|  | Condition A |  | Condition B |  | Combination | Combination |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  |  |  |  |  |
| 12:00 AM | 100\% | 70\% | 100\% | 70\% | 80\% | 56\% |
| 1:00 AM |  |  |  |  |  |  |
| 2:00 AM |  |  |  |  |  |  |
| 3:00 AM |  |  |  |  |  |  |
| 4:00 AM |  |  |  |  |  |  |
| 5:00 AM |  |  |  |  |  |  |
| 6:00 AM |  |  |  |  |  |  |
| 7:00 AM |  |  |  |  |  |  |
| 8:00 AM |  |  |  |  |  |  |
| 9:00 AM |  |  |  |  |  |  |
| 10:00 AM |  |  |  |  |  |  |
| 11:00 AM |  |  |  |  |  |  |
| 12:00 PM |  |  |  |  |  |  |
| 1:00 PM |  |  |  |  |  |  |
| 2:00 PM |  |  |  |  |  |  |
| 3:00 PM |  |  |  |  |  |  |
| 4:00 PM |  |  |  |  |  |  |
| 5:00 PM |  |  |  |  |  |  |
| 6:00 PM |  |  |  |  |  |  |
| 7:00 PM |  |  |  |  |  |  |
| 8:00 PM |  |  |  |  |  |  |
| 9:00 PM |  |  |  |  |  |  |
| 10:00 PM |  |  |  |  |  |  |
| 11:00 PM |  |  |  |  |  |  |
|  | 0 | 0 | 0 | 0 | 0 | 0 |

[^0]Warrant 2, Four-Hour Vehicluar Volume

Intersection Name: Eastbound Off \& Excelsior St.
Major Street Name: Excelsior St. No. of Lanes: 2 or more
Minor Street Name: Eastbound Off No. of Lanes:
*Major street speed exceeds 40 mph or isolated
community with a population less than 10,000 ? No

|  | Traffic Volume |  |  |  | Total Major | Higher Minor | 100\% | 70\% |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Major Street 1 | Major Street 2 | Minor Street 1 | Minor Street 2 | Street Vol | Street Vol | Met | Met |
| 12:00 AM | 16 | 12 | 5 | 0 | 28 | 5 |  |  |
| 1:00 AM | 11 | 7 | 2 | 0 | 18 | 2 |  |  |
| 2:00 AM | 11 | 6 | 3 | 0 | 17 | 3 |  |  |
| 3:00 AM | 4 | 3 | 1 | 0 | 7 | 1 |  |  |
| 4:00 AM | 5 | 7 | 0 | 0 | 12 | 0 |  |  |
| 5:00 AM | 25 | 37 | 8 | 0 | 62 | 8 |  |  |
| 6:00 AM | 88 | 58 | 36 | 0 | 146 | 36 |  |  |
| 7:00 AM | 184 | 84 | 64 | 0 | 268 | 64 |  |  |
| 8:00 AM | 208 | 80 | 70 | 0 | 288 | 70 |  |  |
| 9:00 AM | 144 | 76 | 63 | 0 | 220 | 63 |  |  |
| 10:00 AM | 143 | 101 | 60 | 0 | 244 | 60 |  |  |
| 11:00 AM | 260 | 81 | 63 | 0 | 341 | 63 |  |  |
| 12:00 PM | 252 | 110 | 36 | 0 | 362 | 36 |  |  |
| 1:00 PM | 248 | 146 | 65 | 0 | 394 | 65 |  |  |
| 2:00 PM | 238 | 125 | 68 | 0 | 363 | 68 |  |  |
| 3:00 PM | 316 | 149 | 86 | 0 | 465 | 86 |  |  |
| 4:00 PM | 349 | 159 | 82 | 0 | 508 | 82 |  |  |
| 5:00 PM | 299 | 194 | 62 | 0 | 493 | 62 |  |  |
| 6:00 PM | 200 | 106 | 33 | 0 | 306 | 33 |  |  |
| 7:00 PM | 119 | 68 | 23 | 0 | 187 | 23 |  |  |
| 8:00 PM | 112 | 57 | 20 | 0 | 169 | 20 |  |  |
| 9:00 PM | 86 | 68 | 24 | 0 | 154 | 24 |  |  |
| 10:00 PM | 86 | 44 | 21 | 0 | 130 | 21 |  |  |
| 11:00 PM | 66 | 22 | 19 | 0 | 88 | 19 |  |  |


$\qquad$
70\%

Warrant 2, Met: $\qquad$





Intersection Name: Eastbound Off \& Excelsior St.
Major Street Name:
Minor Street Name:
Excelsior St.
Eastbound Off
Location less
No No

|  |  | Finish |
| :--- | :---: | :---: |
| Interval 1 | - |  |
| Interval 2 | - |  |
| Interval 3 | - |  |
| Interval 4 | - |  |
| Interval 5 |  |  |
| Interval 6 |  |  |
| Student Volume | Vehicular Gaps <br> Across Major Street |  |
| Across Major Street |  |  |

Warrant 5, Met: $\qquad$ N/A

Intersection Name: Eastbound Off \& Excelsior St.
Major Street Name: Excelsior St.
Minor Street Name: Eastbound Off
*The Coordinated Signal System signal warrant should not be applied
where the resultant spacing of traffic control signals would be less than 1000'.

Condition A:
On a one-way street or a street that has traffic predominantly in one direction, the adjacent traffic control signals
are so far apart that they do not provide the necessary degree of vehicular platooning.
Warrant 6, Condition A met: $\quad \bar{\square}$
Condition B:
On a two-way street, adjacent traffic control signals do not provide the necessary degree of platooning and the proposed and adjacent traffic control signals will collectively provide a progressive operation.

```
Warrant 6, Condition B met:| F
```

Warrant 6, Met: N/A

Intersection Name: Eastbound Off \& Excelsior St.
Major Street Name: Excelsior St.
Minor Street Name: Eastbound Off
*Major street speed exceeds 40 mph or isolated
community with a population less than 10,000 ? $\qquad$
Condition A:
Adequate trial of alternatives with satisfactory observance and enforcement has failed
to reduce the crash frequency
Warrant 7, Condition A met: № $\quad$ -

## Condition B:

Five or more reported crashes, of types susceptible to correction by a traffic control signal,
have occurred within a 12 -month period, each crash involving personal injury or property
damage apparently exceeding the applicable requirements for a reportable crash
Number of Correctable Crashes:
Warrant 7, Condition B met: $\qquad$
Condition C:
For each of any 8 hours of an average day, the vehicles per hour (vph) given in both of the
$\mathbf{8 0 \%}$ columns of Condition A in Table 4C-1, or the vph in both of the $\mathbf{8 0 \%}$ columns of Condition B
in Table 4C-1 exists on the major-street and the higher-volume minor-street approach, respectively,
to the intersection, or the volume of pedestrian traffic is not less than $80 \%$ of the requirements
specified in the Pedestrian Volume warrant.
80\% conditions Condition A in Table 4C-1 met: 80\% conditions Condition B in Table 4C-1 met
$80 \%$ of Pedestrian Volume Warrant Volumes met: N/A
$\qquad$

|  | 80\% Condition A in Table 4C-1 | 80\% Condition B in Table 4C-1 | 80\% Pedestrian Volumes |
| :---: | :---: | :---: | :---: |
| 12:00 AM |  |  |  |
| 1:00 AM |  |  |  |
| 2:00 AM |  |  |  |
| 3:00 AM |  |  |  |
| 4:00 AM |  |  |  |
| 5:00 AM |  |  |  |
| 6:00 AM |  |  |  |
| 7:00 AM |  |  |  |
| 8:00 AM |  |  |  |
| 9:00 AM |  |  |  |
| 10:00 AM |  |  |  |
| 11:00 AM |  |  |  |
| 12:00 PM |  |  |  |
| 1:00 PM |  |  |  |
| 2:00 PM |  |  |  |
| 3:00 PM |  |  |  |
| 4:00 PM |  |  |  |
| 5:00 PM |  |  |  |
| 6:00 PM |  |  |  |
| 7:00 PM |  |  |  |
| 8:00 PM |  |  |  |
| 9:00 PM |  |  |  |
| 10:00 PM |  |  |  |
| 11:00 PM |  |  |  |
|  | 0 | 0 | 0 |

Warrant 7, Met: $\qquad$

Intersection Name: Eastbound Off \& Excelsior St.
Major Street Name: Excelsior St.
Minor Street Name: Eastbound Off

* This warrant shall only be considered if the location is an intersection of two or more major routes.

A major route as used in this signal warrant shall have one or more of the following characteristics:

1. It is part of the street or highway system that serves as the principal roadway network for through traffic flow; or
2. It includes rural or suburban highways outside, entering, or traversing a city; or
3. It appears as a major route on an official plan, such as a major street plan in an urban area traffic and transportation study.

Does the study intersection consist of two or more major routes? ${ }^{\text {No }} \quad-$

## Condition A

The intersection has a total existing, or immediately projected, entering volume of at least 1,000 vehicles per hour during the peak hour of a typical weekday and has 5 -year projected traffic volumes, based on an engineering study, that meet one or more of warrants 1,2 , and 3 during an average weekday; or

$$
\begin{aligned}
& \text { At least 1,000 vehicles entering the intersection: } \quad \text { N/A } \\
& \qquad \text { Warrant 8, Condition A met: } \frac{\mathrm{N} / \mathrm{A}}{}
\end{aligned}
$$

Condition B
The intersection has a total existing, or immediately projected, entering volume of at least 1,000 vehicles per hour for each of any 5 hours of a nonnormal business day (Saturday or Sunday).

Warrant 8, Condition B met: $\qquad$

Warrant 8, met: $\qquad$

Intersection Name: South Bound Off \& Continental Drive
 community with a population less than 10,000 ?
$\qquad$ No

| Condition A - Minimum Vehicular Volume |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| No. of Lanes |  | VPH total on major street |  |  |  | VPH on higher vol minor street |  |  |  |
| Major | Minor | 100\% ${ }^{\text {a }}$ | $80 \%{ }^{\text {b }}$ | $70 \%^{\text {c }}$ | $56 \%{ }^{\text {d }}$ | 100\% ${ }^{\text {a }}$ | $80 \%{ }^{\text {b }}$ | $70 \%^{\text {c }}$ | $56 \%{ }^{\text {d }}$ |
| 1 | 1 | 500 | 400 | 350 | 280 | 150 | 120 | 105 | 84 |
| 2 | 1 | 600 | 480 | 420 | 336 | 150 | 120 | 105 | 84 |
| 2 | 2 | 600 | 480 | 420 | 336 | 200 | 160 | 140 | 112 |
| 1 | 2 | 500 | 400 | 350 | 280 | 200 | 160 | 140 | 112 |


| Condition B - Interupption of Continuous Traffic |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| No. of Lanes |  | VPH total on major street |  |  |  | VPH on higher vol minor street |  |  |  |
| Major | Minor | 100\% ${ }^{\text {a }}$ | 80\% ${ }^{\text {b }}$ | $70 \%{ }^{\text {c }}$ | $56 \%{ }^{\text {d }}$ | 100\% ${ }^{\text {a }}$ | $80 \%{ }^{\text {b }}$ | $70 \%{ }^{\text {c }}$ | $56 \%{ }^{\text {d }}$ |
| 1 | 1 | 750 | 600 | 525 | 420 | 75 | 60 | 53 | 42 |
| 2 | 1 | 900 | 720 | 630 | 504 | 75 | 60 | 53 | 42 |
| 2 | 2 | 900 | 720 | 630 | 504 | 100 | 80 | 70 | 56 |
| 1 | 2 | 750 | 600 | 525 | 420 | 100 | 80 | 70 | 56 |

${ }^{\text {a }}$ Basic minimum hourly volume.
${ }^{\mathrm{b}}$ Used for combination of Conditions A and B after adequate trial of other remedial measures.
${ }^{\text {c }}$ May be used when the major-street speed exceeds 40 mph or in an Isolated community
with a population of less than 10,000 .
May be used for combination of Conditions A and B after adequate trial of other remedial measures when the major-
street speed exceeds $70 \mathrm{~km} / \mathrm{h}$ or exceeds 40 mpn in an isolated community with a population less than 10,000

|  | Traffic Volume |  |  |  | Total Major | Higher Minor |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Major Street 1 | Major Street 2 | Minor Street 1 | Minor Street 2 | Street Vol | Street Vol |
| 12:00 AM | 3 | 10 | 4 | 0 | 13 | 4 |
| 1:00 AM | 6 | 5 | 4 | 0 | 11 | 4 |
| 2:00 AM | 3 | 6 | 1 | 0 | 9 | 1 |
| 3:00 AM | 11 | 3 | 0 | 0 | 14 | 0 |
| 4:00 AM | 11 | 6 | 0 | 0 | 17 | 0 |
| 5:00 AM | 24 | 15 | 10 | 0 | 39 | 10 |
| 6:00 AM | 37 | 24 | 14 | 0 | 61 | 14 |
| 7:00 AM | 70 | 66 | 24 | 0 | 136 | 24 |
| 8:00 AM | 116 | 69 | 27 | 0 | 185 | 27 |
| 9:00 AM | 54 | 59 | 26 | 0 | 113 | 26 |
| 10:00 AM | 79 | 62 | 47 | 0 | 141 | 47 |
| 11:00 AM | 92 | 98 | 63 | 0 | 190 | 63 |
| 12:00 PM | 70 | 100 | 53 | 0 | 170 | 53 |
| 1:00 PM | 88 | 68 | 51 | 0 | 156 | 51 |
| 2:00 PM | 86 | 86 | 73 | 0 | 172 | 73 |
| 3:00 PM | 95 | 96 | 88 | 0 | 191 | 88 |
| 4:00 PM | 98 | 114 | 86 | 0 | 212 | 86 |
| 5:00 PM | 104 | 115 | 67 | 0 | 219 | 67 |
| 6:00 PM | 80 | 98 | 50 | 0 | 178 | 50 |
| 7:00 PM | 73 | 69 | 40 | 0 | 142 | 40 |
| 8:00 PM | 60 | 60 | 39 | 0 | 120 | 39 |
| 9:00 PM | 32 | 54 | 27 | 0 | 86 | 27 |
| 10:00 PM | 33 | 48 | 23 | 0 | 81 | 23 |
| 11:00 PM | 9 | 20 | 10 | 0 | 29 | 10 |



[^1]Warrant 2, Four-Hour Vehicluar Volume

Intersection Name: South Bound Off \& Continental Drive
Major Street Name: Continental No. of Lanes: 2 or more
Minor Street Name: Southbound Of No. of Lanes:
*Major street speed exceeds 40 mph or isolated
community with a population less than 10,000 ? $\qquad$
$\qquad$

|  | Traffic Volume |  |  |  | Total Major | Higher Minor | 100\% | 70\% |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Major Street 1 | Major Street 2 | Minor Street 1 | Minor Street 2 | Street Vol | Street Vol | Met | Met |
| 12:00 AM | 3 | 10 | 4 | 0 | 13 | 4 |  |  |
| 1:00 AM | 6 | 5 | 4 | 0 | 11 | 4 |  |  |
| 2:00 AM | 3 | 6 | 1 | 0 | 9 | 1 |  |  |
| 3:00 AM | 11 | 3 | 0 | 0 | 14 | 0 |  |  |
| 4:00 AM | 11 | 6 | 0 | 0 | 17 | 0 |  |  |
| 5:00 AM | 24 | 15 | 10 | 0 | 39 | 10 |  |  |
| 6:00 AM | 37 | 24 | 14 | 0 | 61 | 14 |  |  |
| 7:00 AM | 70 | 66 | 24 | 0 | 136 | 24 |  |  |
| 8:00 AM | 116 | 69 | 27 | 0 | 185 | 27 |  |  |
| 9:00 AM | 54 | 59 | 26 | 0 | 113 | 26 |  |  |
| 10:00 AM | 79 | 62 | 47 | 0 | 141 | 47 |  |  |
| 11:00 AM | 92 | 98 | 63 | 0 | 190 | 63 |  |  |
| 12:00 PM | 70 | 100 | 53 | 0 | 170 | 53 |  |  |
| 1:00 PM | 88 | 68 | 51 | 0 | 156 | 51 |  |  |
| 2:00 PM | 86 | 86 | 73 | 0 | 172 | 73 |  |  |
| 3:00 PM | 95 | 96 | 88 | 0 | 191 | 88 |  |  |
| 4:00 PM | 98 | 114 | 86 | 0 | 212 | 86 |  |  |
| 5:00 PM | 104 | 115 | 67 | 0 | 219 | 67 |  |  |
| 6:00 PM | 80 | 98 | 50 | 0 | 178 | 50 |  |  |
| 7:00 PM | 73 | 69 | 40 | 0 | 142 | 40 |  |  |
| 8:00 PM | 60 | 60 | 39 | 0 | 120 | 39 |  |  |
| 9:00 PM | 32 | 54 | 27 | 0 | 86 | 27 |  |  |
| 10:00 PM | 33 | 48 | 23 | 0 | 81 | 23 |  |  |
| 11:00 PM | 9 | 20 | 10 | 0 | 29 | 10 |  |  |


$\qquad$
70\%

Warrant 2, Met: $\qquad$

Intersection Name: South Bound Off \& Continental Drive
Major Street Name: Continental
Minor Street Name: Southbound Off
nber of Approaches: $\qquad$

|  | Number of Stopped Vehicles |  | Number of Stopped Vehicles |
| :---: | :---: | :---: | :---: |
| Min/Sec | 0 | Min/Sec | 0 |
| 0 |  | 0 |  |
| 1 |  | 1 |  |
| 2 |  | 2 |  |
| 3 |  | 3 |  |
| 4 |  | 4 |  |
| 5 |  | 5 |  |
| 6 |  | 6 |  |
| 7 |  | 7 |  |
| 8 |  | 8 |  |
| 9 |  | 9 |  |
| 10 |  | 10 |  |
| 11 |  | 11 |  |
| 12 |  | 12 |  |
| 13 |  | 13 |  |
| 14 |  | 14 |  |
| 15 |  | 15 |  |
| 16 |  | 16 |  |
| 17 |  | 17 |  |
| 18 |  | 18 |  |
| 19 |  | 19 |  |
| 20 |  | 20 |  |
| 21 |  | 21 |  |
| 22 |  | 22 |  |
| 23 |  | 23 |  |
| 24 |  | 24 |  |
| 25 |  | 25 |  |
| 26 |  | 26 |  |
| 27 |  | 27 |  |
| 28 |  | 28 |  |
| 29 |  | 29 |  |
| 30 |  | 30 |  |
| 31 |  | 31 |  |
| 32 |  | 32 |  |
| 33 |  | 33 |  |
| 34 |  | 34 |  |
| 35 |  | 35 |  |
| 36 |  | 36 |  |
| 37 |  | 37 |  |
| 38 |  | 38 |  |
| 39 |  | 39 |  |
| 40 |  | 40 |  |
| 41 |  | 41 |  |
| 42 |  | 42 |  |
| 43 |  | 43 |  |
| 44 |  | 44 |  |
| 45 |  | 45 |  |
| 46 |  | 46 |  |
| 47 |  | 47 |  |
| 48 |  | 48 |  |
| 49 |  | 49 |  |
| 50 |  | 50 |  |
| 51 |  | 51 |  |
| 52 |  | 52 |  |
| 53 |  | 53 |  |
| 54 |  | 54 |  |
| 55 |  | 55 |  |
| 56 |  | 56 |  |
| 57 |  | 57 |  |
| 58 |  | 58 |  |
| 59 |  | 59 |  |


| Cars Served on Study Approach | Cars Served at Intersection |  |
| :---: | :---: | :---: |
| Interval No. | Interval | No. |
| 1 | 1 |  |
| 2 | 2 |  |
| 3 | 3 |  |
| 4 | 4 |  |
| 5 | 5 |  |
| 6 | 6 |  |
| 7 | 7 |  |
| 8 | 8 |  |
| Cars Served | Cars | Served |
| on Study Approach | at Inte | section |
| Hourly Sum | Hourly | Sum |
| 1 | 1 |  |
| 2 | 2 |  |
| 3 | 3 |  |
| 4 | 4 |  |
| 5 | 5 |  |
| Vehicles Stopped |  |  |
| on Study Approach |  |  |
| Hourly Totals |  |  |
| 1 |  |  |
| 2 |  |  |
| 3 |  |  |
| 4 |  |  |
| 5 |  |  |
| Total Number of Stopped Vehicles |  |  |
| Vehicles Served on Approach Leg |  |  |
| Stopped Delay |  | sec/veh |
| Stopped Delay |  | h-hrs |




Intersection Name: South Bound Off \& Continental Drive
$\begin{array}{ll}\text { Major Street Name: } \\ \text { Minor Street Name: } & \text { Continental } \\ \text { Southbound Off }\end{array}$
Location less than 300 ' from nearest signal?
Is the roadway divided by a median with sufficient width
for pedestrians to wait?

| Pedestrian Volume Across Major Street |  | Vehicular Gaps Across Major Street |
| :---: | :---: | :---: |
| 12:00 AM |  |  |
| 1:00 AM |  |  |
| 2:00 AM |  |  |
| 3:00 AM |  |  |
| 4:00 AM |  |  |
| 5:00 AM |  |  |
| 6:00 AM |  |  |
| 7:00 AM |  |  |
| 8:00 AM |  |  |
| 9:00 AM |  |  |
| 10:00 AM |  |  |
| 11:00 AM |  |  |
| 12:00 PM |  |  |
| 1:00 PM |  |  |
| 2:00 PM |  |  |
| 3:00 PM |  |  |
| 4:00 PM |  |  |
| 5:00 PM |  |  |
| 6:00 PM |  |  |
| 7:00 PM |  |  |
| 8:00 PM |  |  |
| 9:00 PM |  |  |
| 10:00 PM |  |  |
| 11:00 PM |  |  |
| Warrant 4, Condition A Met: | N/A |  |
| Warrant 4, Condition B Met: | N/A |  |
| Warrant 4, Met: | N/A |  |

Intersection Name: South Bound Off \& Continental Drive
Major Street Name:
Minor Street Name:
Location less than 300' from nearest signal? No

|  |  | Start |
| :--- | :---: | :---: |
| Interval 1 | - |  |
| Interval 2 | - |  |
| Interval 3 |  |  |
| Interval 4 | - |  |
| Interval 5 | - |  |
| Interval 6 |  |  |
| Student Volume | Vehicular Gaps |  |
| Across Major Street | Across Major Street |  |
| Interval 1 |  |  |
| Interval 2 |  |  |
| Interval 3 |  |  |
| Interval 4 |  |  |
| Interval 5 |  |  |
| Interval 6 |  |  |

Warrant 5, Met: $\qquad$
$\qquad$

Intersection Name: South Bound Off \& Continental Drive
Major Street Name: Continental
Minor Street Name: $\overline{\text { Southbound Off }}$
*The Coordinated Signal System signal warrant should not be applied
where the resultant spacing of traffic control signals would be less than 1000'.

Condition A:
On a one-way street or a street that has traffic predominantly in one direction, the adjacent traffic control signals
are so far apart that they do not provide the necessary degree of vehicular platooning.
Warrant 6, Condition A met: $\quad \bar{\square}$

## Condition B:

On a two-way street, adjacent traffic control signals do not provide the necessary degree of platooning and the proposed and adjacent traffic control signals will collectively provide a progressive operation.

```
Warrant 6, Condition B met:| F
```

Warrant 6, Met: N/A

Intersection Name: South Bound Off \& Continental Drive
Major Street Name: Continental
Minor Street Name: Southbound Of
*Major street speed exceeds 40 mph or isolated
community with a population less than 10,000 ? $\qquad$
$\qquad$
Condition A:
Adequate trial of alternatives with satisfactory observance and enforcement has failed
to reduce the crash frequency
Warrant 7, Condition A met: № $\quad$ -

## Condition B:

Five or more reported crashes, of types susceptible to correction by a traffic control signal,
have occurred within a 12 -month period, each crash involving personal injury or property
damage apparently exceeding the applicable requirements for a reportable crash
Number of Correctable Crashes: 0
Warrant 7, Condition B met: $\qquad$ N
Condition C:
For each of any 8 hours of an average day, the vehicles per hour (vph) given in both of the
$\mathbf{8 0 \%}$ columns of Condition A in Table 4C-1, or the vph in both of the $80 \%$ columns of Condition B
in Table 4C-1 exists on the major-street and the higher-volume minor-street approach, respectively,
to the intersection, or the volume of pedestrian traffic is not less than $\mathbf{8 0 \%}$ of the requirements
specified in the Pedestrian Volume warrant.
80\% conditions Condition A in Table 4C-1 met:
80\% conditions Condition B in Table 4C-1 met:
80\% conditions Condition B in Table 4C-1 met:
80\% of Pedestrian Volume Warrant Volumes met: $\qquad$
$\qquad$

|  | 80\% Condition A in Table 4C-1 | 80\% Condition B in Table 4C-1 | 80\% Pedestrian Volumes |
| :---: | :---: | :---: | :---: |
| 12:00 AM |  |  |  |
| 1:00 AM |  |  |  |
| 2:00 AM |  |  |  |
| 3:00 AM |  |  |  |
| 4:00 AM |  |  |  |
| 5:00 AM |  |  |  |
| 6:00 AM |  |  |  |
| 7:00 AM |  |  |  |
| 8:00 AM |  |  |  |
| 9:00 AM |  |  |  |
| 10:00 AM |  |  |  |
| 11:00 AM |  |  |  |
| 12:00 PM |  |  |  |
| 1:00 PM |  |  |  |
| 2:00 PM |  |  |  |
| 3:00 PM |  |  |  |
| 4:00 PM |  |  |  |
| 5:00 PM |  |  |  |
| 6:00 PM |  |  |  |
| 7:00 PM |  |  |  |
| 8:00 PM |  |  |  |
| 9:00 PM |  |  |  |
| 10:00 PM |  |  |  |
| 11:00 PM |  |  |  |
|  | 0 | 0 | 0 |

Warrant 7, Met: $\qquad$

Intersection Name: South Bound Off \& Continental Drive
Major Street Name: Continental
Minor Street Name: Southbound Of

* This warrant shall only be considered if the location is an intersection of two or more major routes.

A major route as used in this signal warrant shall have one or more of the following characteristics:

1. It is part of the street or highway system that serves as the principal roadway network for through traffic flow; or
2. It includes rural or suburban highways outside, entering, or traversing a city; or
3. It appears as a major route on an official plan, such as a major street plan in an urban area traffic and transportation study.

Does the study intersection consist of two or more major routes? |No -

## Condition A

The intersection has a total existing, or immediately projected, entering volume of at least 1,000 vehicles per hour during the peak hour of a typical weekday and has 5 -year projected traffic volumes, based on an engineering study, that meet one or more of warrants 1,2 , and 3 during an average weekday; or

$$
\begin{aligned}
& \text { At least 1,000 vehicles entering the intersection: N/A } \\
& \qquad \begin{array}{l}
\text { Warrant } 8, \text { Condition A met: } \\
\hline \mathrm{N} / \mathrm{A}
\end{array}
\end{aligned}
$$

Condition B
The intersection has a total existing, or immediately projected, entering volume of at least 1,000 vehicles per hour for each of any 5 hours of a nonnormal business day (Saturday or Sunday).

Warrant 8, Condition B met: $\qquad$

Warrant 8, met: $\qquad$

Intersection Name: Northbound Off \& Continental Drive


| Condition A - Minimum Vehicular Volume |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| No. of Lanes |  | VPH total on major street |  |  |  | VPH on higher vol minor street |  |  |  |
| Major | Minor | 100\% ${ }^{\text {a }}$ | $80 \%{ }^{\text {b }}$ | $70 \%^{\text {c }}$ | $56 \%{ }^{\text {d }}$ | 100\% ${ }^{\text {a }}$ | $80 \%{ }^{\text {b }}$ | $70 \%^{\text {c }}$ | $56 \%{ }^{\text {d }}$ |
| 1 | 1 | 500 | 400 | 350 | 280 | 150 | 120 | 105 | 84 |
| 2 | 1 | 600 | 480 | 420 | 336 | 150 | 120 | 105 | 84 |
| 2 | 2 | 600 | 480 | 420 | 336 | 200 | 160 | 140 | 112 |
| 1 | 2 | 500 | 400 | 350 | 280 | 200 | 160 | 140 | 112 |


| Condition B - Interupption of Continuous Traffic |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| No. of Lanes |  | VPH total on major street |  |  |  | VPH on higher vol minor street |  |  |  |
| Major | Minor | 100\% ${ }^{\text {a }}$ | 80\% ${ }^{\text {b }}$ | $70 \%{ }^{\text {c }}$ | $56 \%{ }^{\text {d }}$ | 100\% ${ }^{\text {a }}$ | $80 \%{ }^{\text {b }}$ | $70 \%{ }^{\text {c }}$ | $56 \%{ }^{\text {d }}$ |
| 1 | 1 | 750 | 600 | 525 | 420 | 75 | 60 | 53 | 42 |
| 2 | 1 | 900 | 720 | 630 | 504 | 75 | 60 | 53 | 42 |
| 2 | 2 | 900 | 720 | 630 | 504 | 100 | 80 | 70 | 56 |
| 1 | 2 | 750 | 600 | 525 | 420 | 100 | 80 | 70 | 56 |

${ }^{\text {a }}$ Basic minimum hourly volume.
${ }^{\mathrm{b}}$ Used for combination of Conditions A and B after adequate trial of other remedial measures.
${ }^{\text {c }}$ May be used when the major-street speed exceeds 40 mph or in an Isolated community
with a population of less than 10,000 .
May be used for combination of Conditions A and B after adequate trial of other remedial measures when the major-
street speed exceeds $70 \mathrm{~km} / \mathrm{h}$ or exceeds 40 mpn in an isolated community with a population less than 10,000

|  | Traffic Volume |  |  |  | Total Major | Higher Minor |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Major Street 1 | Major Street 2 | Minor Street 1 | Minor Street 2 | Street Vol | Street Vol |
| 12:00 AM | 5 | 7 | 0 | 3 | 12 | 3 |
| 1:00 AM | 6 | 6 | 0 | 2 | 12 | 2 |
| 2:00 AM | 1 | 6 | 0 | 1 | 7 | 1 |
| 3:00 AM | 4 | 5 | 0 | 1 | 9 | 1 |
| 4:00 AM | 1 | 5 | 0 | 3 | 6 | 3 |
| 5:00 AM | 28 | 11 | 0 | 16 | 39 | 16 |
| 6:00 AM | 59 | 26 | 0 | 37 | 85 | 37 |
| 7:00 AM | 62 | 46 | 0 | 72 | 108 | 72 |
| 8:00 AM | 83 | 46 | 0 | 77 | 129 | 77 |
| 9:00 AM | 49 | 36 | 0 | 36 | 85 | 36 |
| 10:00 AM | 36 | 36 | 0 | 22 | 72 | 22 |
| 11:00 AM | 54 | 68 | 0 | 26 | 122 | 26 |
| 12:00 PM | 64 | 56 | 0 | 30 | 120 | 30 |
| 1:00 PM | 60 | 39 | 0 | 25 | 99 | 25 |
| 2:00 PM | 58 | 46 | 0 | 27 | 104 | 27 |
| 3:00 PM | 72 | 44 | 0 | 34 | 116 | 34 |
| 4:00 PM | 70 | 84 | 0 | 32 | 154 | 32 |
| 5:00 PM | 70 | 83 | 0 | 26 | 153 | 26 |
| 6:00 PM | 77 | 51 | 0 | 37 | 128 | 37 |
| 7:00 PM | 58 | 48 | 0 | 24 | 106 | 24 |
| 8:00 PM | 43 | 22 | 0 | 16 | 65 | 16 |
| 9:00 PM | 31 | 29 | 0 | 11 | 60 | 11 |
| 10:00 PM | 20 | 20 | 0 | 7 | 40 | 7 |
| 11:00 PM | 13 | 14 | 0 | 7 | 27 | 7 |


|  | Condition A |  | Condition B |  | Combination | Combination |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | 100\% | 70\% | 100\% | 70\% | 80\% | 56\% |
| 12:00 AM |  |  |  |  |  |  |
| 1:00 AM |  |  |  |  |  |  |
| 2:00 AM |  |  |  |  |  |  |
| 3:00 AM |  |  |  |  |  |  |
| 4:00 AM |  |  |  |  |  |  |
| 5:00 AM |  |  |  |  |  |  |
| 6:00 AM |  |  |  |  |  |  |
| 7:00 AM |  |  |  |  |  |  |
| 8:00 AM |  |  |  |  |  |  |
| 9:00 AM |  |  |  |  |  |  |
| 10:00 AM |  |  |  |  |  |  |
| 11:00 AM |  |  |  |  |  |  |
| 12:00 PM |  |  |  |  |  |  |
| 1:00 PM |  |  |  |  |  |  |
| 2:00 PM |  |  |  |  |  |  |
| 3:00 PM |  |  |  |  |  |  |
| 4:00 PM |  |  |  |  |  |  |
| 5:00 PM |  |  |  |  |  |  |
| 6:00 PM |  |  |  |  |  |  |
| 7:00 PM |  |  |  |  |  |  |
| 8:00 PM |  |  |  |  |  |  |
| 9:00 PM |  |  |  |  |  |  |
| 10:00 PM |  |  |  |  |  |  |
| 11:00 PM |  |  |  |  |  |  |
|  | 0 | 0 | 0 | 0 | 0 | 0 |

[^2]Intersection Name: Northbound Off \& Continental Drive
Major Street Name: Continental No. of Lanes: 2 or more
Minor Street Name: Northbound OiNo. of Lanes:
*Major street speed exceeds $\mathbf{4 0 \mathrm { mph }}$ or isolated
community with a population less than 10,000 ? $\qquad$
$\qquad$

|  | Traffic Volume |  |  |  | Total Major | Higher Minor | 100\% | 70\% |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Major Street 1 | Major Street 2 | Minor Street 1 | Minor Street 2 | Street Vol | Street Vol | Met | Met |
| 12:00 AM | 5 | 7 | 0 | 3 | 12 | 3 |  |  |
| 1:00 AM | 6 | 6 | 0 | 2 | 12 | 2 |  |  |
| 2:00 AM | 1 | 6 | 0 | 1 | 7 | 1 |  |  |
| 3:00 AM | 4 | 5 | 0 | 1 | 9 | 1 |  |  |
| 4:00 AM | 1 | 5 | 0 | 3 | 6 | 3 |  |  |
| 5:00 AM | 28 | 11 | 0 | 16 | 39 | 16 |  |  |
| 6:00 AM | 59 | 26 | 0 | 37 | 85 | 37 |  |  |
| 7:00 AM | 62 | 46 | 0 | 72 | 108 | 72 |  |  |
| 8:00 AM | 83 | 46 | 0 | 77 | 129 | 77 |  |  |
| 9:00 AM | 49 | 36 | 0 | 36 | 85 | 36 |  |  |
| 10:00 AM | 36 | 36 | 0 | 22 | 72 | 22 |  |  |
| 11:00 AM | 54 | 68 | 0 | 26 | 122 | 26 |  |  |
| 12:00 PM | 64 | 56 | 0 | 30 | 120 | 30 |  |  |
| 1:00 PM | 60 | 39 | 0 | 25 | 99 | 25 |  |  |
| 2:00 PM | 58 | 46 | 0 | 27 | 104 | 27 |  |  |
| 3:00 PM | 72 | 44 | 0 | 34 | 116 | 34 |  |  |
| 4:00 PM | 70 | 84 | 0 | 32 | 154 | 32 |  |  |
| 5:00 PM | 70 | 83 | 0 | 26 | 153 | 26 |  |  |
| 6:00 PM | 77 | 51 | 0 | 37 | 128 | 37 |  |  |
| 7:00 PM | 58 | 48 | 0 | 24 | 106 | 24 |  |  |
| 8:00 PM | 43 | 22 | 0 | 16 | 65 | 16 |  |  |
| 9:00 PM | 31 | 29 | 0 | 11 | 60 | 11 |  |  |
| 10:00 PM | 20 | 20 | 0 | 7 | 40 | 7 |  |  |
| 11:00 PM | 13 | 14 | 0 | 7 | 27 | 7 |  |  |


$\qquad$
70\%

Warrant 2, Met: $\qquad$

Intersection Name: Northbound Off \& Continental Drive
Major Street Name: Continental
Minor Street Name: Northbound Off
nber of Approaches: Interval: Seconds

|  | Number of Stopped Vehicles |  | Number of Stopped Vehicles |
| :---: | :---: | :---: | :---: |
| Min/Sec | 0 | Min/Sec | 0 |
| 0 |  | 0 |  |
| 1 |  | 1 |  |
| 2 |  | 2 |  |
| 3 |  | 3 |  |
| 4 |  | 4 |  |
| 5 |  | 5 |  |
| 6 |  | 6 |  |
| 7 |  | 7 |  |
| 8 |  | 8 |  |
| 9 |  | 9 |  |
| 10 |  | 10 |  |
| 11 |  | 11 |  |
| 12 |  | 12 |  |
| 13 |  | 13 |  |
| 14 |  | 14 |  |
| 15 |  | 15 |  |
| 16 |  | 16 |  |
| 17 |  | 17 |  |
| 18 |  | 18 |  |
| 19 |  | 19 |  |
| 20 |  | 20 |  |
| 21 |  | 21 |  |
| 22 |  | 22 |  |
| 23 |  | 23 |  |
| 24 |  | 24 |  |
| 25 |  | 25 |  |
| 26 |  | 26 |  |
| 27 |  | 27 |  |
| 28 |  | 28 |  |
| 29 |  | 29 |  |
| 30 |  | 30 |  |
| 31 |  | 31 |  |
| 32 |  | 32 |  |
| 33 |  | 33 |  |
| 34 |  | 34 |  |
| 35 |  | 35 |  |
| 36 |  | 36 |  |
| 37 |  | 37 |  |
| 38 |  | 38 |  |
| 39 |  | 39 |  |
| 40 |  | 40 |  |
| 41 |  | 41 |  |
| 42 |  | 42 |  |
| 43 |  | 43 |  |
| 44 |  | 44 |  |
| 45 |  | 45 |  |
| 46 |  | 46 |  |
| 47 |  | 47 |  |
| 48 |  | 48 |  |
| 49 |  | 49 |  |
| 50 |  | 50 |  |
| 51 |  | 51 |  |
| 52 |  | 52 |  |
| 53 |  | 53 |  |
| 54 |  | 54 |  |
| 55 |  | 55 |  |
| 56 |  | 56 |  |
| 57 |  | 57 |  |
| 58 |  | 58 |  |
| 59 |  | 59 |  |





Intersection Name: Northbound Off \& Continental Drive
Major Street Name: Continental
Minor Street Name: Northbound Off
Location less than 300 ' from nearest signal?
No
Is the roadway divided by a median with sufficient width
for pedestrians to wait? |No $\quad$ |l

| Pedestrian Volume Across Major Street |  | Vehicular Gaps Across Major Street |
| :---: | :---: | :---: |
| 12:00 AM |  |  |
| 1:00 AM |  |  |
| 2:00 AM |  |  |
| 3:00 AM |  |  |
| 4:00 AM |  |  |
| 5:00 AM |  |  |
| 6:00 AM |  |  |
| 7:00 AM |  |  |
| 8:00 AM |  |  |
| 9:00 AM |  |  |
| 10:00 AM |  |  |
| 11:00 AM |  |  |
| 12:00 PM |  |  |
| 1:00 PM |  |  |
| 2:00 PM |  |  |
| 3:00 PM |  |  |
| 4:00 PM |  |  |
| 5:00 PM |  |  |
| 6:00 PM |  |  |
| 7:00 PM |  |  |
| 8:00 PM |  |  |
| 9:00 PM |  |  |
| 10:00 PM |  |  |
| 11:00 PM |  |  |
| Warrant 4, Condition A Met: | N/A |  |
| Warrant 4, Condition B Met: | N/A |  |
| Warrant 4, Met: | N/A |  |

Intersection Name: Northbound Off \& Continental Drive
Major Street Name: $\begin{aligned} & \text { Continental } \\ & \text { Minor Street Name: }\end{aligned} \frac{\text { Northbound }}{}$ O
Location less than 300' from nearest signal? No
Start
Finish
Interval 1
Interval 2
Interval 3
Interval 4
Interval 5
Interval 6

| Student Volume <br> Across Major Street | Vehicular Gaps <br> Across Major Street |
| :--- | :---: |
| Interval 1 |  |
| Interval 2 |  |
| Interval 3 |  |
| Interval 4 |  |
| Interval 5 |  |
| Interval 6 |  |

Warrant 5, Met: $\qquad$
$\qquad$

Intersection Name: Northbound Off \& Continental Drive
Major Street Name: Continental
Minor Street Name: Northbound Off
*The Coordinated Signal System signal warrant should not be applied
where the resultant spacing of traffic control signals would be less than 1000'.

Condition A:
On a one-way street or a street that has traffic predominantly in one direction, the adjacent traffic control signals
are so far apart that they do not provide the necessary degree of vehicular platooning.
Warrant 6, Condition A met: $\quad \bar{\square}$

## Condition B:

On a two-way street, adjacent traffic control signals do not provide the necessary degree of platooning and the proposed and adjacent traffic control signals will collectively provide a progressive operation.

```
Warrant 6, Condition B met:| F
```

Warrant 6, Met: N/A

Intersection Name: Northbound Off \& Continental Drive
Major Street Name: Continental
Minor Street Name: Northbound Off
*Major street speed exceeds 40 mph or isolated
community with a population less than 10,000 ? $\qquad$
$\qquad$
Condition A:
Adequate trial of alternatives with satisfactory observance and enforcement has failed
to reduce the crash frequency
Warrant 7, Condition A met: $N$ No $\quad \nabla$
Condition B:
Five or more reported crashes, of types susceptible to correction by a traffic control signal,
have occurred within a 12 -month period, each crash involving personal injury or property
damage apparently exceeding the applicable requirements for a reportable crash
Number of Correctable Crashes: 0
Warrant 7, Condition B met: $\qquad$ N

Condition C:
For each of any 8 hours of an average day, the vehicles per hour ( vph ) given in both of the
$80 \%$ columns of Condition A in Table 4C-1, or the vph in both of the $80 \%$ columns of Condition B
in Table 4C-1 exists on the major-street and the higher-volume minor-street approach, respectively,
to the intersection, or the volume of pedestrian traffic is not less than $80 \%$ of the requirements
specified in the Pedestrian Volume warrant.
80\% conditions Condition A in Table 4C-1 met: 80\% conditions Condition B in Table 4C-1 met $80 \%$ conditions Condition B in Table 4C-1 met
$\qquad$ N $0 \%$ of Pedestrian Volume Warrant Volumes met: $\qquad$

|  | 80\% Condition A in Table 4C-1 | 80\% Condition B in Table 4C-1 | 80\% Pedestrian Volumes |
| :---: | :---: | :---: | :---: |
| 12:00 AM |  |  |  |
| 1:00 AM |  |  |  |
| 2:00 AM |  |  |  |
| 3:00 AM |  |  |  |
| 4:00 AM |  |  |  |
| 5:00 AM |  |  |  |
| 6:00 AM |  |  |  |
| 7:00 AM |  |  |  |
| 8:00 AM |  |  |  |
| 9:00 AM |  |  |  |
| 10:00 AM |  |  |  |
| 11:00 AM |  |  |  |
| 12:00 PM |  |  |  |
| 1:00 PM |  |  |  |
| 2:00 PM |  |  |  |
| 3:00 PM |  |  |  |
| 4:00 PM |  |  |  |
| 5:00 PM |  |  |  |
| 6:00 PM |  |  |  |
| 7:00 PM |  |  |  |
| 8:00 PM |  |  |  |
| 9:00 PM |  |  |  |
| 10:00 PM |  |  |  |
| 11:00 PM |  |  |  |
|  | 0 | 0 | 0 |

Warrant 7, Met: $\qquad$

Intersection Name: Northbound Off \& Continental Drive
Major Street Name: Continental
Minor Street Name: Northbound Off

* This warrant shall only be considered if the location is an intersection of two or more major routes.

A major route as used in this signal warrant shall have one or more of the following characteristics:

1. It is part of the street or highway system that serves as the principal roadway network for through traffic flow; or
2. It includes rural or suburban highways outside, entering, or traversing a city; or
3. It appears as a major route on an official plan, such as a major street plan in an urban area traffic and transportation study.

Does the study intersection consist of two or more major routes? ${ }^{\text {No }} \quad-$

## Condition A

The intersection has a total existing, or immediately projected, entering volume of at least 1,000 vehicles per hour during the peak hour of a typical weekday and has 5 -year projected traffic volumes, based on an engineering study, that meet one or more of warrants 1,2 , and 3 during an average weekday; or

$$
\begin{aligned}
& \text { At least 1,000 vehicles entering the intersection: } \quad \text { N/A } \\
& \qquad \text { Warrant 8, Condition A met: } \frac{\mathrm{N} / \mathrm{A}}{}
\end{aligned}
$$

Condition B
The intersection has a total existing, or immediately projected, entering volume of at least 1,000 vehicles per hour for each of any 5 hours of a nonnormal business day (Saturday or Sunday).

Warrant 8, Condition B met: $\qquad$

Warrant 8, met: $\qquad$


| Condition A - Minimum Vehicular Volume |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| No. of Lanes |  | VPH total on major street |  |  |  | VPH on higher vol minor street |  |  |  |
| Major | Minor | $100 \%{ }^{\text {a }}$ | $80 \%^{\text {b }}$ | $70 \%^{\text {c }}$ | 56\% ${ }^{\text {d }}$ | $100 \%^{\text {a }}$ | 80\% ${ }^{\text {b }}$ | 70\% ${ }^{\text {c }}$ | $56 \%{ }^{\text {d }}$ |
| 1 | 1 | 500 | 400 | 350 | 280 | 150 | 120 | 105 | 84 |
| 2 | 1 | 600 | 480 | 420 | 336 | 150 | 120 | 105 | 84 |
| 2 | 2 | 600 | 480 | 420 | 336 | 200 | 160 | 140 | 112 |
| 1 | 2 | 500 | 400 | 350 | 280 | 200 | 160 | 140 | 112 |


| Condition B - Interupption of Continuous Traffic |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| No. of Lanes |  | VPH total on major street |  |  |  | VPH on higher vol minor street |  |  |  |
| Major | Minor | 100\% ${ }^{\text {a }}$ | 80\% ${ }^{\text {b }}$ | $70 \%{ }^{\text {c }}$ | $56 \%{ }^{\text {d }}$ | 100\% ${ }^{\text {a }}$ | $80 \%{ }^{\text {b }}$ | $70 \%{ }^{\text {c }}$ | $56 \%{ }^{\text {d }}$ |
| 1 | 1 | 750 | 600 | 525 | 420 | 75 | 60 | 53 | 42 |
| 2 | 1 | 900 | 720 | 630 | 504 | 75 | 60 | 53 | 42 |
| 2 | 2 | 900 | 720 | 630 | 504 | 100 | 80 | 70 | 56 |
| 1 | 2 | 750 | 600 | 525 | 420 | 100 | 80 | 70 | 56 |

${ }^{\text {a }}$ Basic minimum hourly volume.
${ }^{\mathrm{b}}$ Used for combination of Conditions A and B atter adequate trial of other remedial measures.
${ }^{\text {c }}$ May be used when the major-street speed exceeds 40 mph or in an Isolated community
with a population of less than 10,000 .
May be used for combination of Conditions A and B after adequate trial of other remedial measures when the major-
street speed exceeds $70 \mathrm{~km} / \mathrm{h}$ or exceeds 40 mpn in an isolated community with a population less than 10,000

|  | Traffic Volume |  |  |  | Total Major | Higher Minor |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Major Street 1 | Major Street 2 | Minor Street 1 | Minor Street 2 | Street Vol | Street Vol |
| 12:00 AM | 5 | 7 | 0 | 1 | 12 | 1 |
| 1:00 AM | 6 | 6 | 0 | 0 | 12 | 0 |
| 2:00 AM | 1 | 6 | 0 | 0 | 7 | 0 |
| 3:00 AM | 4 | 5 | 1 | 0 | 9 | 1 |
| 4:00 AM | 1 | 5 | 1 | 1 | 6 | 1 |
| 5:00 AM | 28 | 11 | 2 | 3 | 39 | 3 |
| 6:00 AM | 59 | 26 | 2 | 11 | 85 | 11 |
| 7:00 AM | 62 | 46 | 6 | 13 | 108 | 13 |
| 8:00 AM | 83 | 46 | 3 | 9 | 129 | 9 |
| 9:00 AM | 49 | 36 | 5 | 13 | 85 | 13 |
| 10:00 AM | 36 | 36 | 11 | 6 | 72 | 11 |
| 11:00 AM | 54 | 68 | 5 | 8 | 122 | 8 |
| 12:00 PM | 64 | 56 | 1 | 10 | 120 | 10 |
| 1:00 PM | 60 | 39 | 4 | 6 | 99 | 6 |
| 2:00 PM | 58 | 46 | 1 | 5 | 104 | 5 |
| 3:00 PM | 72 | 44 | 3 | 3 | 116 | 3 |
| 4:00 PM | 70 | 84 | 7 | 7 | 154 | 7 |
| 5:00 PM | 70 | 83 | 1 | 6 | 153 | 6 |
| 6:00 PM | 77 | 54 | 5 | 8 | 131 | 8 |
| 7:00 PM | 58 | 48 | 2 | 9 | 106 | 9 |
| 8:00 PM | 43 | 22 | 1 | 6 | 65 | 6 |
| 9:00 PM | 31 | 29 | 1 | 9 | 60 | 9 |
| 10:00 PM | 20 | 20 | 2 | 7 | 40 | 7 |
| 11:00 PM | 13 | 14 | 0 | 3 | 27 | 3 |


|  | Condition A |  | Condition B |  | Combination | Combination |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | 100\% | 70\% | 100\% | 70\% | 80\% | 56\% |
| 12:00 AM |  |  |  |  |  |  |
| 1:00 AM |  |  |  |  |  |  |
| 2:00 AM |  |  |  |  |  |  |
| 3:00 AM |  |  |  |  |  |  |
| 4:00 AM |  |  |  |  |  |  |
| 5:00 AM |  |  |  |  |  |  |
| 6:00 AM |  |  |  |  |  |  |
| 7:00 AM |  |  |  |  |  |  |
| 8:00 AM |  |  |  |  |  |  |
| 9:00 AM |  |  |  |  |  |  |
| 10:00 AM |  |  |  |  |  |  |
| 11:00 AM |  |  |  |  |  |  |
| 12:00 PM |  |  |  |  |  |  |
| 1:00 PM |  |  |  |  |  |  |
| 2:00 PM |  |  |  |  |  |  |
| 3:00 PM |  |  |  |  |  |  |
| 4:00 PM |  |  |  |  |  |  |
| 5:00 PM |  |  |  |  |  |  |
| 6:00 PM |  |  |  |  |  |  |
| 7:00 PM |  |  |  |  |  |  |
| 8:00 PM |  |  |  |  |  |  |
| 9:00 PM |  |  |  |  |  |  |
| 10:00 PM |  |  |  |  |  |  |
| 11:00 PM |  |  |  |  |  |  |
|  | 0 | 0 | 0 | 0 | 0 | 0 |



Intersection Name: Continental Dr. \& Saddle Rock Dr
Major Street Name: Continental Dr. No. of Lanes: 2 or more
Minor Street Name: Saddle Rock D No. of Lanes: 2 or more
${ }^{*}$ Major street speed exceeds 40 mph or isolated
community with a population less than 10,000 ?
No

|  | Traffic Volume |  |  |  | Total Major | Higher Minor | 100\% | 70\% |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Major Street 1 | Major Street 2 | Minor Street 1 | Minor Street 2 | Street Vol | Street Vol | Met | Met |
| 12:00 AM | 5 | 7 | 0 | 1 | 12 | 1 |  |  |
| 1:00 AM | 6 | 6 | 0 | 0 | 12 | 0 |  |  |
| 2:00 AM | 1 | 6 | 0 | 0 | 7 | 0 |  |  |
| 3:00 AM | 4 | 5 | 1 | 0 | 9 | 1 |  |  |
| 4:00 AM | 1 | 5 | 1 | 1 | 6 | 1 |  |  |
| 5:00 AM | 28 | 11 | 2 | 3 | 39 | 3 |  |  |
| 6:00 AM | 59 | 26 | 2 | 11 | 85 | 11 |  |  |
| 7:00 AM | 62 | 46 | 6 | 13 | 108 | 13 |  |  |
| 8:00 AM | 83 | 46 | 3 | 9 | 129 | 9 |  |  |
| 9:00 AM | 49 | 36 | 5 | 13 | 85 | 13 |  |  |
| 10:00 AM | 36 | 36 | 11 | 6 | 72 | 11 |  |  |
| 11:00 AM | 54 | 68 | 5 | 8 | 122 | 8 |  |  |
| 12:00 PM | 64 | 56 | 1 | 10 | 120 | 10 |  |  |
| 1:00 PM | 60 | 39 | 4 | 6 | 99 | 6 |  |  |
| 2:00 PM | 58 | 46 | 1 | 5 | 104 | 5 |  |  |
| 3:00 PM | 72 | 44 | 3 | 3 | 116 | 3 |  |  |
| 4:00 PM | 70 | 84 | 7 | 7 | 154 | 7 |  |  |
| 5:00 PM | 70 | 83 | 1 | 6 | 153 | 6 |  |  |
| 6:00 PM | 77 | 54 | 5 | 8 | 131 | 8 |  |  |
| 7:00 PM | 58 | 48 | 2 | 9 | 106 | 9 |  |  |
| 8:00 PM | 43 | 22 | 1 | 6 | 65 | 6 |  |  |
| 9:00 PM | 31 | 29 | 1 | 9 | 60 | 9 |  |  |
| 10:00 PM | 20 | 20 | 2 | 7 | 40 | 7 |  |  |
| 11:00 PM | 13 | 14 | 0 | 3 | 27 | 3 |  |  |


$\qquad$
70\%

Warrant 2, Met: $\qquad$





Intersection Name: Continental Dr. \& Saddle Rock Dr.
Major Street Name: Continental Dr.
Minor Street Name:
Location less than 300' from nearest signal? No

|  |  | Sinish |
| :--- | :---: | :---: |
| Interval 1 | - |  |
| Interval 2 | - |  |
| Interval 3 | - |  |
| Interval 4 | - |  |
| Interval 5 |  |  |
| Interval 6 |  |  |
| Student Volume | Vehicular Gaps |  |
| Across Major Street | Across Major Street |  |
| Interval 1 |  |  |
| Interval 2 |  |  |
| Interval 3 |  |  |
| Interval 4 |  |  |
| Interval 5 |  |  |
| Interval 6 |  |  |

Warrant 5, Met: $\qquad$
$\qquad$

Intersection Name: Continental Dr. \& Saddle Rock Dr.
Major Street Name: Continental Dr.
Minor Street Name: $\overline{\text { Saddle Rock Dr }}$
*The Coordinated Signal System signal warrant should not be applied
where the resultant spacing of traffic control signals would be less than 1000'.

Condition A:
On a one-way street or a street that has traffic predominantly in one direction, the adjacent traffic control signals
are so far apart that they do not provide the necessary degree of vehicular platooning.
Warrant 6, Condition A met: $\quad \bar{\square}$

## Condition B:

On a two-way street, adjacent traffic control signals do not provide the necessary degree of platooning and the proposed and adjacent traffic control signals will collectively provide a progressive operation.

```
Warrant 6, Condition B met:| F
```

Warrant 6, Met: N/A

Intersection Name: Continental Dr. \& Saddle Rock Dr.
Major Street Name: Continental Dr.
Minor Street Name: Saddle Rock D
*Major street speed exceeds $\mathbf{4 0 ~ m p h}$ or isolated
community with a population less than 10,000 ? $\qquad$
$\qquad$
Condition A:
Adequate trial of alternatives with satisfactory observance and enforcement has failed
to reduce the crash frequency
Warrant 7, Condition A met: $N$ No $\quad \nabla$

## Condition B:

Five or more reported crashes, of types susceptible to correction by a traffic control signal,
have occurred within a 12 -month period, each crash involving personal injury or property
damage apparently exceeding the applicable requirements for a reportable crash
Number of Correctable Crashes: 0
Warrant 7, Condition B met: $\qquad$ N
Condition C:
For each of any 8 hours of an average day, the vehicles per hour (vph) given in both of the
$\mathbf{8 0 \%}$ columns of Condition A in Table 4C-1, or the vph in both of the $80 \%$ columns of Condition B
in Table 4C-1 exists on the major-street and the higher-volume minor-street approach, respectively,
to the intersection, or the volume of pedestrian traffic is not less than $80 \%$ of the requirements
specified in the Pedestrian Volume warrant.
80\% conditions Condition A in Table 4C-1 met:
80\% conditions Condition B in Table 4C-1 met:
80\% conditions Condition B in Table 4C-1 met:
80\% of Pedestrian Volume Warrant Volumes met: $\qquad$
$\qquad$

|  | 80\% Condition A in Table 4C-1 | 80\% Condition B in Table 4C-1 | 80\% Pedestrian Volumes |
| :---: | :---: | :---: | :---: |
| 12:00 AM |  |  |  |
| 1:00 AM |  |  |  |
| 2:00 AM |  |  |  |
| 3:00 AM |  |  |  |
| 4:00 AM |  |  |  |
| 5:00 AM |  |  |  |
| 6:00 AM |  |  |  |
| 7:00 AM |  |  |  |
| 8:00 AM |  |  |  |
| 9:00 AM |  |  |  |
| 10:00 AM |  |  |  |
| 11:00 AM |  |  |  |
| 12:00 PM |  |  |  |
| 1:00 PM |  |  |  |
| 2:00 PM |  |  |  |
| 3:00 PM |  |  |  |
| 4:00 PM |  |  |  |
| 5:00 PM |  |  |  |
| 6:00 PM |  |  |  |
| 7:00 PM |  |  |  |
| 8:00 PM |  |  |  |
| 9:00 PM |  |  |  |
| 10:00 PM |  |  |  |
| 11:00 PM |  |  |  |
|  | 0 | 0 | 0 |

Warrant 7, Met: $\qquad$

Intersection Name: Continental Dr. \& Saddle Rock Dr.
Major Street Name:
Minor Street Name: $\frac{\text { Continental Dr. }}{\text { Saddle Rock Dr }}$
Minor Street Name: Saddle Rock Dr

* This warrant shall only be considered if the location is an intersection of two or more major routes.

A major route as used in this signal warrant shall have one or more of the following characteristics:

1. It is part of the street or highway system that serves as the principal roadway network for through traffic flow; or
2. It includes rural or suburban highways outside, entering, or traversing a city; or
3. It appears as a major route on an official plan, such as a major street plan in an urban area traffic and transportation study.

Does the study intersection consist of two or more major routes? ${ }^{\text {No }} \quad-$

## Condition A

The intersection has a total existing, or immediately projected, entering volume of at least 1,000 vehicles per hour during the peak hour of a typical weekday and has 5 -year projected traffic volumes, based on an engineering study, that meet one or more of warrants 1, 2, and 3 during an average weekday; or

$$
\begin{aligned}
& \text { At least 1,000 vehicles entering the intersection: } \quad \text { N/A } \\
& \qquad \text { Warrant 8, Condition A met: } \frac{\mathrm{N} / \mathrm{A}}{}
\end{aligned}
$$

Condition B
The intersection has a total existing, or immediately projected, entering volume of at least 1,000 vehicles per hour for each of any 5 hours of a nonnormal business day (Saturday or Sunday).

Warrant 8, Condition B met: $\qquad$

Warrant 8, met: $\qquad$

Intersection Name: Rocker and WB Off


| Condition A - Minimum Vehicular Volume |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| No. of Lanes |  | VPH total on major street |  |  |  | VPH on higher vol minor street |  |  |  |
| Major | Minor | $100 \%{ }^{\text {a }}$ | 80\% ${ }^{\text {b }}$ | $70 \%^{\text {c }}$ | $56 \%{ }^{\text {d }}$ | $100 \%^{\text {a }}$ | $80 \%{ }^{\text {b }}$ | $70 \%^{\text {c }}$ | $56 \%{ }^{\text {d }}$ |
| 1 | 1 | 500 | 400 | 350 | 280 | 150 | 120 | 105 | 84 |
| 2 | 1 | 600 | 480 | 420 | 336 | 150 | 120 | 105 | 84 |
| 2 | 2 | 600 | 480 | 420 | 336 | 200 | 160 | 140 | 112 |
| 1 | 2 | 500 | 400 | 350 | 280 | 200 | 160 | 140 | 112 |


| Condition B - Interupption of Continuous Traffic |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| No. of Lanes |  | VPH total on major street |  |  |  | VPH on higher vol minor street |  |  |  |
| Major | Minor | $100 \%{ }^{\text {a }}$ | $80 \%{ }^{\text {b }}$ | $70 \%{ }^{\text {c }}$ | $56 \%{ }^{\text {d }}$ | $100 \%{ }^{\text {a }}$ | $80 \%{ }^{\text {b }}$ | $70 \%^{\text {c }}$ | $56 \%{ }^{\text {d }}$ |
| 1 | 1 | 750 | 600 | 525 | 420 | 75 | 60 | 53 | 42 |
| 2 | 1 | 900 | 720 | 630 | 504 | 75 | 60 | 53 | 42 |
| 2 | 2 | 900 | 720 | 630 | 504 | 100 | 80 | 70 | 56 |
| 1 | 2 | 750 | 600 | 525 | 420 | 100 | 80 | 70 | 56 |

${ }^{\text {a }}$ Basic minimum hourly volume.
${ }_{\mathrm{c}}^{\mathrm{b}}$ Used for combination of Conditions A and B after adequate trial of other remedial measures.
${ }^{\text {c }}$ May be used when the major-street speed exceeds 40 mph or in an Isolated community
with a population of less than 10,000 .
May be used for combination of Conditions A and B after adequate trial of other remedial measures when the major-
street speed exceeds $70 \mathrm{~km} / \mathrm{h}$ or exceeds 40 mpn in an isolated community with a population less than 10,000

|  | Traffic Volume |  |  |  | Total Major | Higher Minor |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Major Street 1 | Major Street 2 | Minor Street 1 | Minor Street 2 | Street Vol | Street Vol |
| 12:00 AM | 35 | 31 | 0 | 48 | 66 | 48 |
| 1:00 AM | 18 | 17 | 0 | 25 | 35 | 25 |
| 2:00 AM | 18 | 18 | 0 | 20 | 36 | 20 |
| 3:00 AM | 13 | 14 | 0 | 24 | 27 | 24 |
| 4:00 AM | 16 | 24 | 0 | 24 | 40 | 24 |
| 5:00 AM | 44 | 46 | 0 | 39 | 90 | 39 |
| 6:00 AM | 62 | 62 | 0 | 72 | 124 | 72 |
| 7:00 AM | 105 | 83 | 0 | 121 | 188 | 121 |
| 8:00 AM | 147 | 106 | 0 | 180 | 253 | 180 |
| 9:00 AM | 142 | 101 | 0 | 181 | 243 | 181 |
| 10:00 AM | 155 | 128 | 0 | 188 | 283 | 188 |
| 11:00 AM | 148 | 101 | 0 | 197 | 249 | 197 |
| 12:00 PM | 159 | 115 | 0 | 212 | 274 | 212 |
| 1:00 PM | 167 | 115 | 0 | 234 | 282 | 234 |
| 2:00 PM | 159 | 107 | 0 | 252 | 266 | 252 |
| 3:00 PM | 178 | 120 | 0 | 226 | 298 | 226 |
| 4:00 PM | 186 | 112 | 0 | 236 | 298 | 236 |
| 5:00 PM | 160 | 125 | 0 | 210 | 285 | 210 |
| 6:00 PM | 119 | 109 | 0 | 174 | 228 | 174 |
| 7:00 PM | 106 | 92 | 0 | 167 | 198 | 167 |
| 8:00 PM | 91 | 89 | 0 | 116 | 180 | 116 |
| 9:00 PM | 79 | 80 | 0 | 121 | 159 | 121 |
| 10:00 PM | 66 | 59 | 0 | 80 | 125 | 80 |
| 11:00 PM | 51 | 49 | 0 | 59 | 100 | 59 |


|  | Condition A |  | Condition B |  | Combination | Combination |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  |  |  |  |  |
| 12:00 AM | 100\% | 70\% | 100\% | 70\% | 80\% | 56\% |
| 1:00 AM |  |  |  |  |  |  |
| 2:00 AM |  |  |  |  |  |  |
| 3:00 AM |  |  |  |  |  |  |
| 4:00 AM |  |  |  |  |  |  |
| 5:00 AM |  |  |  |  |  |  |
| 6:00 AM |  |  |  |  |  |  |
| 7:00 AM |  |  |  |  |  |  |
| 8:00 AM |  |  |  |  |  |  |
| 9:00 AM |  |  |  |  |  |  |
| 10:00 AM |  |  |  |  |  |  |
| 11:00 AM |  |  |  |  |  |  |
| 12:00 PM |  |  |  |  |  |  |
| 1:00 PM |  |  |  |  |  |  |
| 2:00 PM |  |  |  |  |  |  |
| 3:00 PM |  |  |  |  |  |  |
| 4:00 PM |  |  |  |  |  |  |
| 5:00 PM |  |  |  |  |  |  |
| 6:00 PM |  |  |  |  |  |  |
| 7:00 PM |  |  |  |  |  |  |
| 8:00 PM |  |  |  |  |  |  |
| 9:00 PM |  |  |  |  |  |  |
| 10:00 PM |  |  |  |  |  |  |
| 11:00 PM |  |  |  |  |  |  |
|  | 0 | 0 | 0 | 0 | 0 | 0 |

[^3]
# Warrant 2, Four-Hour Vehicluar Volume 

Intersection Name: Rocker and WB Off
Major Street Name: Rocker_No. of Lanes: 2 or more
Minor Street Name: WB Off No. of Lanes:
*Major street speed exceeds $\mathbf{4 0 \mathrm { mph }}$ or isolated
community with a population less than 10,000 ? $\qquad$
$\qquad$

|  | Traffic Volume |  |  |  | Total Major | Higher Minor | 100\% | 70\% |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Major Street 1 | Major Street 2 | Minor Street 1 | Minor Street 2 | Street Vol | Street Vol | Met | Met |
| 12:00 AM | 35 | 31 | 0 | 48 | 66 | 48 |  |  |
| 1:00 AM | 18 | 17 | 0 | 25 | 35 | 25 |  |  |
| 2:00 AM | 18 | 18 | 0 | 20 | 36 | 20 |  |  |
| 3:00 AM | 13 | 14 | 0 | 24 | 27 | 24 |  |  |
| 4:00 AM | 16 | 24 | 0 | 24 | 40 | 24 |  |  |
| 5:00 AM | 44 | 46 | 0 | 39 | 90 | 39 |  |  |
| 6:00 AM | 62 | 62 | 0 | 72 | 124 | 72 |  |  |
| 7:00 AM | 105 | 83 | 0 | 121 | 188 | 121 |  |  |
| 8:00 AM | 147 | 106 | 0 | 180 | 253 | 180 |  |  |
| 9:00 AM | 142 | 101 | 0 | 181 | 243 | 181 |  |  |
| 10:00 AM | 155 | 128 | 0 | 188 | 283 | 188 |  |  |
| 11:00 AM | 148 | 101 | 0 | 197 | 249 | 197 |  |  |
| 12:00 PM | 159 | 115 | 0 | 212 | 274 | 212 |  |  |
| 1:00 PM | 167 | 115 | 0 | 234 | 282 | 234 |  |  |
| 2:00 PM | 159 | 107 | 0 | 252 | 266 | 252 |  |  |
| 3:00 PM | 178 | 120 | 0 | 226 | 298 | 226 |  |  |
| 4:00 PM | 186 | 112 | 0 | 236 | 298 | 236 |  |  |
| 5:00 PM | 160 | 125 | 0 | 210 | 285 | 210 |  |  |
| 6:00 PM | 119 | 109 | 0 | 174 | 228 | 174 |  |  |
| 7:00 PM | 106 | 92 | 0 | 167 | 198 | 167 |  |  |
| 8:00 PM | 91 | 89 | 0 | 116 | 180 | 116 |  |  |
| 9:00 PM | 79 | 80 | 0 | 121 | 159 | 121 |  |  |
| 10:00 PM | 66 | 59 | 0 | 80 | 125 | 80 |  |  |
| 11:00 PM | 51 | 49 | 0 | 59 | 100 | 59 |  |  |


$\qquad$
70\%

Warrant 2, Met: $\qquad$





Intersection Name: Rocker and WB Off
Major Street Name:
Minor Street Name:
Location less than 300' from nearest signal? No

| Start | Finish |
| :---: | :---: |
| Interval 1 |  |
| Interval 2 |  |
| Interval 3 |  |
| Interval 4 |  |
| Interval 5 |  |
| Interval 6 |  |
| Student Volume | Vehicular Gaps |
| Across Major Street | Across Major Street |
| Interval 1 |  |
| Interval 2 |  |
| Interval 3 |  |
| Interval 4 |  |
| Interval 5 |  |
| Interval 6 |  |

Warrant 5, Met: $\qquad$ N/A

Intersection Name: Rocker and WB Off
$\begin{array}{ll}\text { Major Street Name: } & \text { Rocker } \\ \text { Minor Street Name: } & \text { WB Off }\end{array}$
*The Coordinated Signal System signal warrant should not be applied
where the resultant spacing of traffic control signals would be less than 1000'.

Condition A:
On a one-way street or a street that has traffic predominantly in one direction, the adjacent traffic control signals
are so far apart that they do not provide the necessary degree of vehicular platooning.
Warrant 6, Condition A met: $\quad \bar{\square}$

## Condition B:

On a two-way street, adjacent traffic control signals do not provide the necessary degree of platooning and the proposed and adjacent traffic control signals will collectively provide a progressive operation.

```
Warrant 6, Condition B met:| F
```

Warrant 6, Met: N/A

Intersection Name: Rocker and WB Off
Major Street Name: Rocker
*Major street speed exceeds 40 mph or isolated
community with a population less than 10,000 ? $\qquad$
$\qquad$
Condition A:
Adequate trial of alternatives with satisfactory observance and enforcement has failed
to reduce the crash frequency

$$
\text { Warrant 7, Condition A met: } \text { № } \quad \text { | }
$$

Condition B:
Five or more reported crashes, of types susceptible to correction by a traffic control signal,
have occurred within a 12 -month period, each crash involving personal injury or property
damage apparently exceeding the applicable requirements for a reportable crash
Number of Correctable Crashes: 1
Warrant 7, Condition B met: $\qquad$
Condition C:
For each of any 8 hours of an average day, the vehicles per hour ( vph ) given in both of the
$80 \%$ columns of Condition A in Table 4C-1, or the vph in both of the $80 \%$ columns of Condition B
in Table 4C-1 exists on the major-street and the higher-volume minor-street approach, respectively,
to the intersection, or the volume of pedestrian traffic is not less than $80 \%$ of the requirements
specified in the Pedestrian Volume warrant.
80\% conditions Condition A in Table 4C-1 met: 80\% conditions Condition B in Table 4C-1 met $80 \%$ conditions Condition B in Table 4C-1 met
$\qquad$ N $0 \%$ of Pedestrian Volume Warrant Volumes met: $\qquad$

|  | 80\% Condition A in Table 4C-1 | 80\% Condition B in Table 4C-1 | 80\% Pedestrian Volumes |
| :---: | :---: | :---: | :---: |
| 12:00 AM |  |  |  |
| 1:00 AM |  |  |  |
| 2:00 AM |  |  |  |
| 3:00 AM |  |  |  |
| 4:00 AM |  |  |  |
| 5:00 AM |  |  |  |
| 6:00 AM |  |  |  |
| 7:00 AM |  |  |  |
| 8:00 AM |  |  |  |
| 9:00 AM |  |  |  |
| 10:00 AM |  |  |  |
| 11:00 AM |  |  |  |
| 12:00 PM |  |  |  |
| 1:00 PM |  |  |  |
| 2:00 PM |  |  |  |
| 3:00 PM |  |  |  |
| 4:00 PM |  |  |  |
| 5:00 PM |  |  |  |
| 6:00 PM |  |  |  |
| 7:00 PM |  |  |  |
| 8:00 PM |  |  |  |
| 9:00 PM |  |  |  |
| 10:00 PM |  |  |  |
| 11:00 PM |  |  |  |
|  | 0 | 0 | 0 |

Warrant 7, Met: $\qquad$

Intersection Name: Rocker and WB Off
Major Street Name: Rocker
Minor Street Name: WB Off

* This warrant shall only be considered if the location is an intersection of two or more major routes.

A major route as used in this signal warrant shall have one or more of the following characteristics:

1. It is part of the street or highway system that serves as the principal roadway network for through traffic flow; or
2. It includes rural or suburban highways outside, entering, or traversing a city; or
3. It appears as a major route on an official plan, such as a major street plan in an urban area traffic and transportation study.

Does the study intersection consist of two or more major routes? ${ }^{\text {No }} \quad-$

## Condition A

The intersection has a total existing, or immediately projected, entering volume of at least 1,000 vehicles per hour during the peak hour of a typical weekday and has 5 -year projected traffic volumes, based on an engineering study, that meet one or more of warrants 1,2 , and 3 during an average weekday; or

$$
\begin{aligned}
& \text { At least 1,000 vehicles entering the intersection: } \quad \text { N/A } \\
& \qquad \text { Warrant 8, Condition A met: } \frac{\mathrm{N} / \mathrm{A}}{}
\end{aligned}
$$

Condition B
The intersection has a total existing, or immediately projected, entering volume of at least 1,000 vehicles per hour for each of any 5 hours of a nonnormal business day (Saturday or Sunday).

Warrant 8, Condition B met: $\qquad$

Warrant 8, met: $\qquad$
Major Street Name: $\quad$ Montana St No. of Lanes:
Minor Street Name: WB Off Ramp No. of Lanes: 2 or more
Major street speed exceeds 40 mph or isolated community with a population less than 10,000 ?
$\qquad$
No

| Condition A - Minimum Vehicular Volume |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| No. of Lanes |  | VPH total on major street |  |  |  | VPH on higher vol minor street |  |  |  |
| Major | Minor | $100 \%{ }^{\text {a }}$ | 80\% ${ }^{\text {b }}$ | $70 \%{ }^{\text {c }}$ | 56\% ${ }^{\text {d }}$ | 100\% ${ }^{\text {a }}$ | $80 \%{ }^{\text {b }}$ | $70 \%{ }^{\text {c }}$ | $56 \%{ }^{\text {d }}$ |
| 1 | 1 | 500 | 400 | 350 | 280 | 150 | 120 | 105 | 84 |
| 2 | 1 | 600 | 480 | 420 | 336 | 150 | 120 | 105 | 84 |
| 2 | 2 | 600 | 480 | 420 | 336 | 200 | 160 | 140 | 112 |
| 1 | 2 | 500 | 400 | 350 | 280 | 200 | 160 | 140 | 112 |


| Condition B - Interupption of Continuous Traffic |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| No. of Lanes |  | VPH total on major street |  |  |  | VPH on higher vol minor street |  |  |  |
| Major | Minor | $100 \%{ }^{\text {a }}$ | $80 \%{ }^{\text {b }}$ | $70 \%{ }^{\text {c }}$ | $56 \%{ }^{\text {d }}$ | $100 \%{ }^{\text {a }}$ | $80 \%{ }^{\text {b }}$ | $70 \%{ }^{\text {c }}$ | $56 \%{ }^{\text {d }}$ |
| 1 | 1 | 750 | 600 | 525 | 420 | 75 | 60 | 53 | 42 |
| 2 | 1 | 900 | 720 | 630 | 504 | 75 | 60 | 53 | 42 |
| 2 | 2 | 900 | 720 | 630 | 504 | 100 | 80 | 70 | 56 |
| 1 | 2 | 750 | 600 | 525 | 420 | 100 | 80 | 70 | 56 |

${ }^{\text {a }}$ Basic minimum hourly volume
${ }^{\mathrm{b}}$ Used for combination of Conditions A and B after adequate trial of other remedial measures.
May be used when the major-street speed exceeds 40 mph or in an Isolated community
with a population of less than 10,000 .
May be used for combination of Conditions A and B after adequate trial of other remedial measures when the major-
street speed exceeds $70 \mathrm{~km} / \mathrm{h}$ or exceeds 40 mpn in an isolated community with a population less than 10,000

|  | Traffic Volume |  |  |  |  | Total Major |
| ---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Major Street 1 | Major Street 2 | Minor Street 1 | Minor Street 2 | Street Vol | Street Vol |
| 12:00 AM | 56 | 53 | 0 | 23 | 109 | 23 |
| 1:00 AM | 31 | 28 | 0 | 12 | 59 | 12 |
| 2:00 AM | 26 | 19 | 0 | 9 | 45 | 9 |
| 3:00 AM | 19 | 18 | 0 | 14 | 37 | 14 |
| 4:00 AM | 48 | 29 | 0 | 15 | 77 | 15 |
| 5:00 AM | 102 | 90 | 0 | 43 | 192 | 43 |
| 6:00 AM | 197 | 232 | 0 | 101 | 429 | 101 |
| 7:00 AM | 367 | 479 | 0 | 211 | 846 | 211 |
| 8:00 AM | 435 | 570 | 0 | 245 | 1005 | 245 |
| $9: 00 \mathrm{AM}$ | 430 | 450 | 0 | 174 | 880 | 174 |
| 10:00 AM | 457 | 445 | 0 | 149 | 902 | 149 |
| 11:00 AM | 592 | 463 | 0 | 137 | 1055 | 137 |
| 12:00 PM | 575 | 512 | 0 | 169 | 1087 | 169 |
| 1:00 PM | 587 | 585 | 0 | 183 | 1172 | 183 |
| 2:00 PM | 629 | 582 | 0 | 184 | 1211 | 184 |
| 3:00 PM | 674 | 556 | 0 | 170 | 1230 | 170 |
| 4:00 PM | 714 | 595 | 0 | 205 | 1309 | 205 |
| 5:00 PM | 761 | 583 | 0 | 223 | 1344 | 223 |
| 6:00 PM | 506 | 482 | 0 | 192 | 988 | 192 |
| $7: 00 \mathrm{PM}$ | 372 | 394 | 0 | 126 | 766 | 126 |
| 8:00 PM | 308 | 322 | 0 | 115 | 630 | 115 |
| $9: 00 \mathrm{PM}$ | 244 | 243 | 0 | 90 | 487 | 90 |
| 10:00 PM | 190 | 183 | 0 | 77 | 373 | 77 |
| 11:00 PM | 116 | 106 | 0 | 52 | 222 | 52 |



\footnotetext{
$\begin{array}{ll}\text { Warrant 1, Condition A Met: } & \text { No } \\ \text { Warrant 1, Condition B Met: } & \text { Yes }\end{array}$
Consider combination? See Note 1 Warrant 1, Combination Met: N/A

| 70\% | N/A |
| :---: | :---: |
| 70\% | N/A |
| 56\% | N/A |
| Warrant 1, Me | Yes |

Intersection Name: Montana Street \& WB Off Ramp
Major Street Name: Montana St No. of Lanes: 2 or more
Minor Street Name: WB Off Ramp No. of Lanes: 2 or more
Major street speed exceeds 40 mph or isolated
community with a population less than 10,000 ? No

|  | Traffic Volume |  |  |  | Total Major | Higher Minor | 100\% | 70\% |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Major Street 1 | Major Street 2 | Minor Street 1 | Minor Street 2 | Street Vol | Street Vol | Met | Met |
| 12:00 AM | 56 | 53 | 0 | 23 | 109 | 23 |  |  |
| 1:00 AM | 31 | 28 | 0 | 12 | 59 | 12 |  |  |
| 2:00 AM | 26 | 19 | 0 | 9 | 45 | 9 |  |  |
| 3:00 AM | 19 | 18 | 0 | 14 | 37 | 14 |  |  |
| 4:00 AM | 48 | 29 | 0 | 15 | 77 | 15 |  |  |
| 5:00 AM | 102 | 90 | 0 | 43 | 192 | 43 |  |  |
| 6:00 AM | 197 | 232 | 0 | 101 | 429 | 101 |  |  |
| 7:00 AM | 367 | 479 | 0 | 211 | 846 | 211 |  |  |
| 8:00 AM | 435 | 570 | 0 | 245 | 1005 | 245 | $\checkmark$ |  |
| 9:00 AM | 430 | 450 | 0 | 174 | 880 | 174 |  |  |
| 10:00 AM | 457 | 445 | 0 | 149 | 902 | 149 |  |  |
| 11:00 AM | 592 | 463 | 0 | 137 | 1055 | 137 |  |  |
| 12:00 PM | 575 | 512 | 0 | 169 | 1087 | 169 |  |  |
| 1:00 PM | 587 | 585 | 0 | 183 | 1172 | 183 | $\checkmark$ |  |
| 2:00 PM | 629 | 582 | 0 | 184 | 1211 | 184 | $\checkmark$ |  |
| 3:00 PM | 674 | 556 | 0 | 170 | 1230 | 170 | $\checkmark$ |  |
| 4:00 PM | 714 | 595 | 0 | 205 | 1309 | 205 | $\checkmark$ |  |
| 5:00 PM | 761 | 583 | 0 | 223 | 1344 | 223 | $\checkmark$ |  |
| 6:00 PM | 506 | 482 | 0 | 192 | 988 | 192 |  |  |
| 7:00 PM | 372 | 394 | 0 | 126 | 766 | 126 |  |  |
| 8:00 PM | 308 | 322 | 0 | 115 | 630 | 115 |  |  |
| 9:00 PM | 244 | 243 | 0 | 90 | 487 | 90 |  |  |
| 10:00 PM | 190 | 183 | 0 | 77 | 373 | 77 |  |  |
| 11:00 PM | 116 | 106 | 0 | 52 | 222 | 52 |  |  |


$\qquad$
70\%

Warrant 2, Met: $\qquad$ Yes

Intersection Name: Montana Street \& WB Off Ramp
Major Street Name: Montana St
Minor Street Name: WB Off Ramp
nber of Approaches: 4 Interval:__ Seconds

| Number of Stopped Vehicles |  | Number of Stopped Vehicles |  | Cars Served on Study Approach | Cars Served at Intersection |
| :---: | :---: | :---: | :---: | :---: | :---: |
| Min/Sec | 0 | Min/Sec | 0 | Interval No. | Interval No. |
| 0 |  | 0 |  | 1 | 1 |
| 1 |  | 1 |  | 2 | 2 |
| 2 |  | 2 |  | 3 | 3 |
| 3 |  | 3 |  | 4 | 4 |
| 4 |  | 4 |  | 5 | 5 |
| 5 |  | 5 |  | 6 | 6 |
| 6 |  | 6 |  | 7 | 7 |
| 7 |  | 7 |  | 8 | 8 |
| 8 |  | 8 |  |  |  |
| 9 |  | 9 |  | Cars Served | Cars Served |
| 10 |  | 10 |  | on Study Approach | at Intersection |
| 11 |  | 11 |  | Hourly Sum | Hourly Sum |
| 12 |  | 12 |  | 1 | 1 |
| 13 |  | 13 |  | 2 | 2 |
| 14 |  | 14 |  | 3 | 3 |
| 15 |  | 15 |  | 4 | 4 |
| 16 |  | 16 |  | 5 | 5 |
| 17 |  | 17 |  |  |  |
| 18 |  | 18 |  | Vehicles Stopped |  |
| 19 |  | 19 |  | on Study Approach |  |
| 20 |  | 20 |  | Hourly Totals |  |
| 21 |  | 21 |  | 1 |  |
| 22 |  | 22 |  | 2 |  |
| 23 |  | 23 |  | 3 |  |
| 24 |  | 24 |  | 4 |  |
| 25 |  | 25 |  | 5 |  |
| 26 |  | 26 |  |  |  |
| 27 |  | 27 |  |  |  |
| 28 |  | 28 |  | Total Number of Stopped | Vehicles |
| 29 |  | 29 |  | Vehicles Served on Ap | oach Leg |
| 30 |  | 30 |  |  |  |
| 31 |  | 31 |  |  |  |
| 32 |  | 32 |  | Stopped Delay | sec/veh |
| 33 |  | 33 |  | Stopped Delay | veh-hrs |
| 34 |  | 34 |  |  |  |
| 35 |  | 35 |  |  |  |
| 36 |  | 36 |  |  |  |
| 37 |  | 37 |  |  |  |
| 38 |  | 38 |  |  |  |
| 39 |  | 39 |  |  |  |
| 40 |  | 40 |  |  |  |
| 41 |  | 41 |  |  |  |
| 42 |  | 42 |  |  |  |
| 43 |  | 43 |  |  |  |
| 44 |  | 44 |  |  |  |
| 45 |  | 45 |  |  |  |
| 46 |  | 46 |  |  |  |
| 47 |  | 47 |  |  |  |
| 48 |  | 48 |  |  |  |
| 49 |  | 49 |  |  |  |
| 50 |  | 50 |  |  |  |
| 51 |  | 51 |  |  |  |
| 52 |  | 52 |  |  |  |
| 53 |  | 53 |  |  |  |
| 54 |  | 54 |  |  |  |
| 55 |  | 55 |  |  |  |
| 56 |  | 56 |  |  |  |
| 57 |  | 57 |  |  |  |
| 58 |  | 58 |  |  |  |
| 59 |  | 59 |  |  |  |





Intersection Name: Montana Street \& WB Off Ramp
Major Street Name: $\begin{aligned} & \text { Montana St } \\ & \text { Minor Street Name: }\end{aligned} \frac{\text { WB Off Ramp }}{}$
Location less than 300' from nearest signal? No

|  |  | Sinish |
| :--- | :---: | :---: |
| Interval 1 | - |  |
| Interval 2 | - |  |
| Interval 3 | - |  |
| Interval 4 | - |  |
| Interval 5 |  |  |
| Interval 6 |  |  |
| Student Volume | Vehicular Gaps |  |
| Across Major Street | Across Major Street |  |

Warrant 5, Met: $\qquad$
$\qquad$

Intersection Name: Montana Street \& WB Off Ramp
Major Street Name: Montana St
Minor Street Name: WB Off Ramp
*The Coordinated Signal System signal warrant should not be applied
where the resultant spacing of traffic control signals would be less than 1000'.

Condition A:
On a one-way street or a street that has traffic predominantly in one direction, the adjacent traffic control signals
are so far apart that they do not provide the necessary degree of vehicular platooning.
Warrant 6, Condition A met: $\quad \nabla$
Condition B:
On a two-way street, adjacent traffic control signals do not provide the necessary degree of platooning and the proposed and adjacent traffic control signals will collectively provide a progressive operation.

```
Warrant 6, Condition B met:| F
```

Warrant 6, Met: N/A

Intersection Name: Montana Street \& WB Off Ramp
Major Street Name: Montana St
Minor Street Name: WB Off Ramp
*Major street speed exceeds 40 mph or isolated
community with a population less than 10,000 ? $\qquad$
$\qquad$
Condition A:
Adequate trial of alternatives with satisfactory observance and enforcement has failed
to reduce the crash frequency
Warrant 7, Condition A met: $N$ No $\quad \nabla$
Condition B:
Five or more reported crashes, of types susceptible to correction by a traffic control signal,
have occurred within a 12-month period, each crash involving personal injury or property
damage apparently exceeding the applicable requirements for a reportable crash
Number of Correctable Crashes: 2
Warrant 7, Condition B met: $\qquad$
Condition C:
For each of any 8 hours of an average day, the vehicles per hour ( vph ) given in both of the
$80 \%$ columns of Condition A in Table 4C-1, or the vph in both of the $80 \%$ columns of Condition B
in Table 4C-1 exists on the major-street and the higher-volume minor-street approach, respectively,
to the intersection, or the volume of pedestrian traffic is not less than $80 \%$ of the requirements
specified in the Pedestrian Volume warrant.
80\% conditions Condition A in Table 4C-1 met:
80\% conditions Condition B in Table 4C-1 met
80\% conditions Condition B in Table 4C-1 met: $\qquad$

|  | 80\% Condition A in Table 4C-1 | 80\% Condition B in Table 4C-1 | 80\% Pedestrian Volumes |
| :---: | :---: | :---: | :---: |
| 12:00 AM |  |  |  |
| 1:00 AM |  |  |  |
| 2:00 AM |  |  |  |
| 3:00 AM |  |  |  |
| 4:00 AM |  |  |  |
| 5:00 AM |  |  |  |
| 6:00 AM |  |  |  |
| 7:00 AM | $\checkmark$ | $\checkmark$ |  |
| 8:00 AM | $\checkmark$ | $\checkmark$ |  |
| 9:00 AM | $\checkmark$ | $\checkmark$ |  |
| 10:00 AM |  | $\checkmark$ |  |
| 11:00 AM |  | $\checkmark$ |  |
| 12:00 PM | $\checkmark$ | $\checkmark$ |  |
| 1:00 PM | $\checkmark$ | $\checkmark$ |  |
| 2:00 PM | $\checkmark$ | $\checkmark$ |  |
| 3:00 PM | $\checkmark$ | $\checkmark$ |  |
| 4:00 PM | $\checkmark$ | $\checkmark$ |  |
| 5:00 PM | $\checkmark$ | $\checkmark$ |  |
| 6:00 PM | $\checkmark$ | $\checkmark$ |  |
| 7:00 PM |  | $\checkmark$ |  |
| 8:00 PM |  |  |  |
| 9:00 PM |  |  |  |
| 10:00 PM |  |  |  |
| 11:00 PM |  |  |  |
|  | 10 | 13 | 0 |

Warrant 7, Met: $\qquad$

Intersection Name: Montana Street \& WB Off Ramp
Major Street Name: Montana St
Minor Street Name: WB Off Ramp

* This warrant shall only be considered if the location is an intersection of two or more major routes.

A major route as used in this signal warrant shall have one or more of the following characteristics:

1. It is part of the street or highway system that serves as the principal roadway network for through traffic flow; or
2. It includes rural or suburban highways outside, entering, or traversing a city; or
3. It appears as a major route on an official plan, such as a major street plan in an urban area traffic and transportation study.

Does the study intersection consist of two or more major routes? ${ }^{\text {No }} \quad-$

## Condition A

The intersection has a total existing, or immediately projected, entering volume of at least 1,000 vehicles per hour during the peak hour of a typical weekday and has 5 -year projected traffic volumes, based on an engineering study, that meet one or more of warrants 1,2 , and 3 during an average weekday; or

$$
\begin{aligned}
& \text { At least 1,000 vehicles entering the intersection: } \quad \text { N/A } \\
& \qquad \text { Warrant 8, Condition A met: } \frac{\mathrm{N} / \mathrm{A}}{}
\end{aligned}
$$

Condition B
The intersection has a total existing, or immediately projected, entering volume of at least 1,000 vehicles per hour for each of any 5 hours of a nonnormal business day (Saturday or Sunday).

Warrant 8, Condition B met: $\qquad$

Warrant 8, met: $\qquad$
$\begin{array}{lll}\text { Intersection Name: } & \text { Montana Street \& EB Off Ramp } \\ & \text { Major Street Name: } & \text { Montana St _No. of Lanes: }\end{array}$
Minor Street Name. ${ }^{*}$ Major street speed exceeds 40 mph or isolated community with a population less than 10,000 ?
$\qquad$ No

| Condition A - Minimum Vehicular Volume |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| No. of Lanes |  | VPH total on major street |  |  |  | VPH on higher vol minor street |  |  |  |
| Major | Minor | 100\% ${ }^{\text {a }}$ | $80 \%{ }^{\text {b }}$ | $70 \%{ }^{\text {c }}$ | $56 \%{ }^{\text {d }}$ | 100\% ${ }^{\text {a }}$ | $80 \%{ }^{\text {b }}$ | $70 \%{ }^{\text {c }}$ | $56 \%{ }^{\text {d }}$ |
| 1 | 1 | 500 | 400 | 350 | 280 | 150 | 120 | 105 | 84 |
| 2 | 1 | 600 | 480 | 420 | 336 | 150 | 120 | 105 | 84 |
| 2 | 2 | 600 | 480 | 420 | 336 | 200 | 160 | 140 | 112 |
| 1 | 2 | 500 | 400 | 350 | 280 | 200 | 160 | 140 | 112 |


| Condition B - Interupption of Continuous Traffic |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| No. of Lanes |  | VPH total on major street |  |  |  | VPH on higher vol minor street |  |  |  |
| Major | Minor | 100\% ${ }^{\text {a }}$ | 80\% ${ }^{\text {b }}$ | $70 \%{ }^{\text {c }}$ | $56 \%{ }^{\text {d }}$ | 100\% ${ }^{\text {a }}$ | $80 \%{ }^{\text {b }}$ | $70 \%{ }^{\text {c }}$ | $56 \%{ }^{\text {d }}$ |
| 1 | 1 | 750 | 600 | 525 | 420 | 75 | 60 | 53 | 42 |
| 2 | 1 | 900 | 720 | 630 | 504 | 75 | 60 | 53 | 42 |
| 2 | 2 | 900 | 720 | 630 | 504 | 100 | 80 | 70 | 56 |
| 1 | 2 | 750 | 600 | 525 | 420 | 100 | 80 | 70 | 56 |

${ }^{\text {a }}$ Basic minimum hourly volume.
${ }^{\mathrm{b}}$ Used for combination of Conditions A and B after adequate trial of other remedial measures.
${ }^{\text {c }}$ May be used when the major-street speed exceeds 40 mph or in an Isolated community
with a population of less than 10,000 .
May be used for combination of Conditions A and B after adequate trial of other remedial measures when the major-
street speed exceeds $70 \mathrm{~km} / \mathrm{h}$ or exceeds 40 mpn in an isolated community with a population less than 10,000

|  | Traffic Volume |  |  |  | Total Major | Higher Minor |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Major Street 1 | Major Street 2 | Minor Street 1 | Minor Street 2 | Street Vol | Street Vol |
| 12:00 AM | 56 | 50 | 15 | 0 | 106 | 15 |
| 1:00 AM | 31 | 27 | 15 | 0 | 58 | 15 |
| 2:00 AM | 26 | 17 | 14 | 0 | 43 | 14 |
| 3:00 AM | 19 | 21 | 11 | 0 | 40 | 11 |
| 4:00 AM | 48 | 35 | 19 | 0 | 83 | 19 |
| 5:00 AM | 102 | 97 | 25 | 0 | 199 | 25 |
| 6:00 AM | 197 | 198 | 52 | 0 | 395 | 52 |
| 7:00 AM | 367 | 380 | 90 | 0 | 747 | 90 |
| 8:00 AM | 435 | 429 | 98 | 0 | 864 | 98 |
| 9:00 AM | 430 | 377 | 97 | 0 | 807 | 97 |
| 10:00 AM | 457 | 384 | 103 | 0 | 841 | 103 |
| 11:00 AM | 592 | 351 | 115 | 0 | 943 | 115 |
| 12:00 PM | 575 | 508 | 101 | 0 | 1083 | 101 |
| 1:00 PM | 587 | 501 | 101 | 0 | 1088 | 101 |
| 2:00 PM | 629 | 497 | 129 | 0 | 1126 | 129 |
| 3:00 PM | 674 | 502 | 129 | 0 | 1176 | 129 |
| 4:00 PM | 714 | 506 | 147 | 0 | 1220 | 147 |
| 5:00 PM | 761 | 512 | 134 | 0 | 1273 | 134 |
| 6:00 PM | 506 | 400 | 93 | 0 | 906 | 93 |
| 7:00 PM | 372 | 340 | 63 | 0 | 712 | 63 |
| 8:00 PM | 308 | 278 | 59 | 0 | 586 | 59 |
| 9:00 PM | 244 | 216 | 35 | 0 | 460 | 35 |
| 10:00 PM | 190 | 140 | 34 | 0 | 330 | 34 |
| 11:00 PM | 116 | 78 | 27 | 0 | 194 | 27 |


|  | Condition A |  | Condition B |  | Combination | Combination |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  |  |  |  |  |
| 12:00 AM | 100\% | 70\% | 100\% | 70\% | 80\% | 56\% |
| 1:00 AM |  |  |  |  |  |  |
| 2:00 AM |  |  |  |  |  |  |
| 3:00 AM |  |  |  |  |  |  |
| 4:00 AM |  |  |  |  |  |  |
| 5:00 AM |  |  |  |  |  |  |
| 6:00 AM |  |  |  |  |  |  |
| 7:00 AM |  |  |  |  |  |  |
| 8:00 AM |  |  |  |  |  |  |
| 9:00 AM |  |  |  |  |  |  |
| 10:00 AM |  |  |  |  |  |  |
| 11:00 AM |  |  | $\checkmark$ |  |  |  |
| 12:00 PM |  |  | $\checkmark$ |  |  |  |
| 1:00 PM |  |  | $\checkmark$ |  |  |  |
| 2:00 PM |  |  | $\checkmark$ |  |  |  |
| 3:00 PM |  |  | $\checkmark$ |  |  |  |
| 4:00 PM |  |  | $\checkmark$ |  |  |  |
| 5:00 PM |  |  | $\checkmark$ |  |  |  |
| 6:00 PM |  |  |  |  |  |  |
| 7:00 PM |  |  |  |  |  |  |
| 8:00 PM |  |  |  |  |  |  |
| 9:00 PM |  |  |  |  |  |  |
| 10:00 PM |  |  |  |  |  |  |
| 11:00 PM |  |  |  |  |  |  |
|  | 0 | 0 | 7 | 0 | 0 | 0 |

[^4]Intersection Name: Montana Street \& EB Off Ramp
Major Street Name: Montana St No. of Lanes: 2 or more
Minor Street Name: EB Off Ramp No. of Lanes: 2 or more
*Major street speed exceeds 40 mph or isolated
community with a population less than 10,000 ?
No

|  | Traffic Volume |  |  |  | Total Major | Higher Minor | 100\% | 70\% |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Major Street 1 | Major Street 2 | Minor Street 1 | Minor Street 2 | Street Vol | Street Vol | Met | Met |
| 12:00 AM | 56 | 50 | 15 | 0 | 106 | 15 |  |  |
| 1:00 AM | 31 | 27 | 15 | 0 | 58 | 15 |  |  |
| 2:00 AM | 26 | 17 | 14 | 0 | 43 | 14 |  |  |
| 3:00 AM | 19 | 21 | 11 | 0 | 40 | 11 |  |  |
| 4:00 AM | 48 | 35 | 19 | 0 | 83 | 19 |  |  |
| 5:00 AM | 102 | 97 | 25 | 0 | 199 | 25 |  |  |
| 6:00 AM | 197 | 198 | 52 | 0 | 395 | 52 |  |  |
| 7:00 AM | 367 | 380 | 90 | 0 | 747 | 90 |  |  |
| 8:00 AM | 435 | 429 | 98 | 0 | 864 | 98 |  |  |
| 9:00 AM | 430 | 377 | 97 | 0 | 807 | 97 |  |  |
| 10:00 AM | 457 | 384 | 103 | 0 | 841 | 103 |  |  |
| 11:00 AM | 592 | 351 | 115 | 0 | 943 | 115 |  |  |
| 12:00 PM | 575 | 508 | 101 | 0 | 1083 | 101 |  |  |
| 1:00 PM | 587 | 501 | 101 | 0 | 1088 | 101 |  |  |
| 2:00 PM | 629 | 497 | 129 | 0 | 1126 | 129 |  |  |
| 3:00 PM | 674 | 502 | 129 | 0 | 1176 | 129 |  |  |
| 4:00 PM | 714 | 506 | 147 | 0 | 1220 | 147 | $\checkmark$ |  |
| 5:00 PM | 761 | 512 | 134 | 0 | 1273 | 134 | $\checkmark$ |  |
| 6:00 PM | 506 | 400 | 93 | 0 | 906 | 93 |  |  |
| 7:00 PM | 372 | 340 | 63 | 0 | 712 | 63 |  |  |
| 8:00 PM | 308 | 278 | 59 | 0 | 586 | 59 |  |  |
| 9:00 PM | 244 | 216 | 35 | 0 | 460 | 35 |  |  |
| 10:00 PM | 190 | 140 | 34 | 0 | 330 | 34 |  |  |
| 11:00 PM | 116 | 78 | 27 | 0 | 194 | 27 |  |  |


$\qquad$
70\%

Warrant 2, Met: $\qquad$

Intersection Name: Montana Street \& EB Off Ramp
Major Street Name: Montana St
Minor Street Name: EB Off Ramp
nber of Approaches: $\qquad$

|  | Number of Stopped Vehicles |  | Number of Stopped Vehicles |
| :---: | :---: | :---: | :---: |
| Min/Sec | 0 | Min/Sec | 0 |
| 0 |  | 0 |  |
| 1 |  | 1 |  |
| 2 |  | 2 |  |
| 3 |  | 3 |  |
| 4 |  | 4 |  |
| 5 |  | 5 |  |
| 6 |  | 6 |  |
| 7 |  | 7 |  |
| 8 |  | 8 |  |
| 9 |  | 9 |  |
| 10 |  | 10 |  |
| 11 |  | 11 |  |
| 12 |  | 12 |  |
| 13 |  | 13 |  |
| 14 |  | 14 |  |
| 15 |  | 15 |  |
| 16 |  | 16 |  |
| 17 |  | 17 |  |
| 18 |  | 18 |  |
| 19 |  | 19 |  |
| 20 |  | 20 |  |
| 21 |  | 21 |  |
| 22 |  | 22 |  |
| 23 |  | 23 |  |
| 24 |  | 24 |  |
| 25 |  | 25 |  |
| 26 |  | 26 |  |
| 27 |  | 27 |  |
| 28 |  | 28 |  |
| 29 |  | 29 |  |
| 30 |  | 30 |  |
| 31 |  | 31 |  |
| 32 |  | 32 |  |
| 33 |  | 33 |  |
| 34 |  | 34 |  |
| 35 |  | 35 |  |
| 36 |  | 36 |  |
| 37 |  | 37 |  |
| 38 |  | 38 |  |
| 39 |  | 39 |  |
| 40 |  | 40 |  |
| 41 |  | 41 |  |
| 42 |  | 42 |  |
| 43 |  | 43 |  |
| 44 |  | 44 |  |
| 45 |  | 45 |  |
| 46 |  | 46 |  |
| 47 |  | 47 |  |
| 48 |  | 48 |  |
| 49 |  | 49 |  |
| 50 |  | 50 |  |
| 51 |  | 51 |  |
| 52 |  | 52 |  |
| 53 |  | 53 |  |
| 54 |  | 54 |  |
| 55 |  | 55 |  |
| 56 |  | 56 |  |
| 57 |  | 57 |  |
| 58 |  | 58 |  |
| 59 |  | 59 |  |






Intersection Name: Montana Street \& EB Off Ramp
Major Street Name: $\begin{aligned} & \text { Montana St } \\ & \text { Minor Street Name: }\end{aligned} \frac{\text { EB Off Ramp }}{}$
Location less than 300' from nearest signal? No

|  |  | Sinish |
| :--- | :---: | :---: |
| Interval 1 | - |  |
| Interval 2 | - |  |
| Interval 3 | - |  |
| Interval 4 | - |  |
| Interval 5 |  |  |
| Interval 6 |  |  |
| Student Volume | Vehicular Gaps |  |
| Across Major Street | Across Major Street |  |
| Interval 1 |  |  |
| Interval 2 |  |  |
| Interval 3 |  |  |
| Interval 4 |  |  |
| Interval 5 |  |  |
| Interval 6 |  |  |

Warrant 5, Met: $\qquad$
$\qquad$

Intersection Name: Montana Street \& EB Off Ramp
Major Street Name: Montana St
Minor Street Name: EB Off Ramp
*The Coordinated Signal System signal warrant should not be applied
where the resultant spacing of traffic control signals would be less than 1000'.

Condition A:
On a one-way street or a street that has traffic predominantly in one direction, the adjacent traffic control signals
are so far apart that they do not provide the necessary degree of vehicular platooning.
Warrant 6, Condition A met: $\quad \bar{\square}$

## Condition B:

On a two-way street, adjacent traffic control signals do not provide the necessary degree of platooning and the proposed and adjacent traffic control signals will collectively provide a progressive operation.

```
Warrant 6, Condition B met:| F
```

Warrant 6, Met: N/A

Intersection Name: Montana Street \& EB Off Ramp
Major Street Name: Montana St
Minor Street Name: EB Off Ramp
*Major street speed exceeds 40 mph or isolated
community with a population less than 10,000 ? $\qquad$ No

Condition A:
Adequate trial of alternatives with satisfactory observance and enforcement has failed
to reduce the crash frequency
Warrant 7, Condition A met: $N$ No $\quad \nabla$
Condition B:
Five or more reported crashes, of types susceptible to correction by a traffic control signal,
have occurred within a 12 -month period, each crash involving personal injury or property
damage apparently exceeding the applicable requirements for a reportable crash
Number of Correctable Crashes: 4
Warrant 7, Condition B met: $\qquad$ N

Condition C:
For each of any 8 hours of an average day, the vehicles per hour ( vph ) given in both of the
$80 \%$ columns of Condition A in Table 4C-1, or the vph in both of the $80 \%$ columns of Condition B
in Table 4C-1 exists on the major-street and the higher-volume minor-street approach, respectively,
to the intersection, or the volume of pedestrian traffic is not less than $80 \%$ of the requirements
specified in the Pedestrian Volume warrant.
80\% conditions Condition A in Table 4C-1 met: $80 \%$ conditions Condition B in Table 4C-1 met $80 \%$ conditions Condition B in Table 4C-1 met
$\qquad$
$80 \%$ of Pedestrian Volume Warrant Volumes met: N/A

|  | 80\% Condition A in Table 4C-1 | 80\% Condition B in Table 4C-1 | 80\% Pedestrian Volumes |
| :---: | :---: | :---: | :---: |
| 12:00 AM |  |  |  |
| 1:00 AM |  |  |  |
| 2:00 AM |  |  |  |
| 3:00 AM |  |  |  |
| 4:00 AM |  |  |  |
| 5:00 AM |  |  |  |
| 6:00 AM |  |  |  |
| 7:00 AM |  | $\checkmark$ |  |
| 8:00 AM |  | $\checkmark$ |  |
| 9:00 AM |  | $\checkmark$ |  |
| 10:00 AM |  | $\checkmark$ |  |
| 11:00 AM |  | $\checkmark$ |  |
| 12:00 PM |  | $\checkmark$ |  |
| 1:00 PM |  | $\checkmark$ |  |
| 2:00 PM |  | $\checkmark$ |  |
| 3:00 PM |  | $\checkmark$ |  |
| 4:00 PM |  | $\checkmark$ |  |
| 5:00 PM |  | $\checkmark$ |  |
| 6:00 PM |  | $\checkmark$ |  |
| 7:00 PM |  |  |  |
| 8:00 PM |  |  |  |
| 9:00 PM |  |  |  |
| 10:00 PM |  |  |  |
| 11:00 PM |  |  |  |
|  | 0 | 12 | 0 |

Warrant 7, Met: $\qquad$

Intersection Name: Montana Street \& EB Off Ramp
Major Street Name: Montana St
Minor Street Name: EB Off Ramp

* This warrant shall only be considered if the location is an intersection of two or more major routes.

A major route as used in this signal warrant shall have one or more of the following characteristics:

1. It is part of the street or highway system that serves as the principal roadway network for through traffic flow; or
2. It includes rural or suburban highways outside, entering, or traversing a city; or
3. It appears as a major route on an official plan, such as a major street plan in an urban area traffic and transportation study.

Does the study intersection consist of two or more major routes? ${ }^{\text {No }} \quad-$

## Condition A

The intersection has a total existing, or immediately projected, entering volume of at least 1,000 vehicles per hour during the peak hour of a typical weekday and has 5 -year projected traffic volumes, based on an engineering study, that meet one or more of warrants 1,2 , and 3 during an average weekday; or

$$
\begin{aligned}
& \text { At least 1,000 vehicles entering the intersection: } \quad \text { N/A } \\
& \qquad \text { Warrant 8, Condition A met: } \frac{\mathrm{N} / \mathrm{A}}{}
\end{aligned}
$$

Condition B
The intersection has a total existing, or immediately projected, entering volume of at least 1,000 vehicles per hour for each of any 5 hours of a nonnormal business day (Saturday or Sunday).

Warrant 8, Condition B met: $\qquad$

Warrant 8, met: $\qquad$

Intersection Name: Rocker \& Nissler/Grizzly


| Condition A - Minimum Vehicular Volume |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| No. of Lanes |  | VPH total on major street |  |  |  | VPH on higher vol minor street |  |  |  |
| Major | Minor | $100 \%{ }^{\text {a }}$ | $80 \%{ }^{\text {b }}$ | $70 \%^{\text {c }}$ | $56 \%{ }^{\text {d }}$ | 100\% ${ }^{\text {a }}$ | $80 \%{ }^{\text {b }}$ | $70 \%^{\text {c }}$ | $56 \%{ }^{\text {d }}$ |
| 1 | 1 | 500 | 400 | 350 | 280 | 150 | 120 | 105 | 84 |
| 2 | 1 | 600 | 480 | 420 | 336 | 150 | 120 | 105 | 84 |
| 2 | 2 | 600 | 480 | 420 | 336 | 200 | 160 | 140 | 112 |
| 1 | 2 | 500 | 400 | 350 | 280 | 200 | 160 | 140 | 112 |


| Condition B - Interupption of Continuous Traffic |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| No. of Lanes |  | VPH total on major street |  |  |  | VPH on higher vol minor street |  |  |  |
| Major | Minor | 100\% ${ }^{\text {a }}$ | 80\% ${ }^{\text {b }}$ | $70 \%^{\text {c }}$ | $56 \%{ }^{\text {d }}$ | $100 \%{ }^{\text {a }}$ | $80 \%{ }^{\text {b }}$ | $70 \%{ }^{\text {c }}$ | $56 \%{ }^{\text {d }}$ |
| 1 | 1 | 750 | 600 | 525 | 420 | 75 | 60 | 53 | 42 |
| 2 | 1 | 900 | 720 | 630 | 504 | 75 | 60 | 53 | 42 |
| 2 | 2 | 900 | 720 | 630 | 504 | 100 | 80 | 70 | 56 |
| 1 | 2 | 750 | 600 | 525 | 420 | 100 | 80 | 70 | 56 |

${ }^{\text {a }}$ Basic minimum hourly volume.
${ }^{\mathrm{b}}$ Used for combination of Conditions A and B after adequate trial of other remedial measures.
${ }^{\text {c }}$ May be used when the major-street speed exceeds 40 mph or in an Isolated community
with a population of less than 10,000 .
May be used for combination of Conditions A and B after adequate trial of other remedial measures when the major-
street speed exceeds $70 \mathrm{~km} / \mathrm{h}$ or exceeds 40 mpn in an isolated community with a population less than 10,000

|  | Traffic Volume |  |  |  | Total Major | Higher Minor |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Major Street 1 | Major Street 2 | Minor Street 1 | Minor Street 2 | Street Vol | Street Vol |
| 12:00 AM | 35 | 31 | 18 | 5 | 66 | 18 |
| 1:00 AM | 18 | 17 | 16 | 6 | 35 | 16 |
| 2:00 AM | 18 | 18 | 13 | 5 | 36 | 13 |
| 3:00 AM | 13 | 14 | 16 | 2 | 27 | 16 |
| 4:00 AM | 16 | 24 | 20 | 3 | 40 | 20 |
| 5:00 AM | 44 | 46 | 28 | 6 | 90 | 28 |
| 6:00 AM | 62 | 62 | 43 | 21 | 124 | 43 |
| 7:00 AM | 105 | 83 | 64 | 35 | 188 | 64 |
| 8:00 AM | 147 | 106 | 68 | 25 | 253 | 68 |
| 9:00 AM | 142 | 101 | 61 | 26 | 243 | 61 |
| 10:00 AM | 155 | 128 | 62 | 32 | 283 | 62 |
| 11:00 AM | 148 | 101 | 60 | 20 | 249 | 60 |
| 12:00 PM | 159 | 115 | 69 | 32 | 274 | 69 |
| 1:00 PM | 167 | 115 | 67 | 35 | 282 | 67 |
| 2:00 PM | 159 | 107 | 57 | 37 | 266 | 57 |
| 3:00 PM | 178 | 120 | 60 | 38 | 298 | 60 |
| 4:00 PM | 186 | 112 | 55 | 35 | 298 | 55 |
| 5:00 PM | 160 | 125 | 59 | 38 | 285 | 59 |
| 6:00 PM | 119 | 109 | 51 | 37 | 228 | 51 |
| 7:00 PM | 106 | 92 | 36 | 27 | 198 | 36 |
| 8:00 PM | 91 | 89 | 38 | 20 | 180 | 38 |
| 9:00 PM | 79 | 80 | 40 | 20 | 159 | 40 |
| 10:00 PM | 66 | 59 | 33 | 16 | 125 | 33 |
| 11:00 PM | 51 | 49 | 26 | 8 | 100 | 26 |


|  | Condition A |  | Condition B |  | Combination | Combination |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  |  |  |  |  |
| 12:00 AM | 100\% | 70\% | 100\% | 70\% | 80\% | 56\% |
| 1:00 AM |  |  |  |  |  |  |
| 2:00 AM |  |  |  |  |  |  |
| 3:00 AM |  |  |  |  |  |  |
| 4:00 AM |  |  |  |  |  |  |
| 5:00 AM |  |  |  |  |  |  |
| 6:00 AM |  |  |  |  |  |  |
| 7:00 AM |  |  |  |  |  |  |
| 8:00 AM |  |  |  |  |  |  |
| 9:00 AM |  |  |  |  |  |  |
| 10:00 AM |  |  |  |  |  |  |
| 11:00 AM |  |  |  |  |  |  |
| 12:00 PM |  |  |  |  |  |  |
| 1:00 PM |  |  |  |  |  |  |
| 2:00 PM |  |  |  |  |  |  |
| 3:00 PM |  |  |  |  |  |  |
| 4:00 PM |  |  |  |  |  |  |
| 5:00 PM |  |  |  |  |  |  |
| 6:00 PM |  |  |  |  |  |  |
| 7:00 PM |  |  |  |  |  |  |
| 8:00 PM |  |  |  |  |  |  |
| 9:00 PM |  |  |  |  |  |  |
| 10:00 PM |  |  |  |  |  |  |
| 11:00 PM |  |  |  |  |  |  |
|  | 0 | 0 | 0 | 0 | 0 | 0 |

[^5]Intersection Name: Rocker \& Nissler/Grizzly
Major Street Name: Rocker_No. of Lanes: 2 or more
Minor Street Name: $\overline{\text { Nissler/Grizzly }}$ No. of Lanes: 2 or more
${ }^{*}$ Major street speed exceeds 40 mph or isolated
community with a population less than 10,000 ?
No

|  | Traffic Volume |  |  |  | Total Major | Higher Minor | 100\% | 70\% |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Major Street 1 | Major Street 2 | Minor Street 1 | Minor Street 2 | Street Vol | Street Vol | Met | Met |
| 12:00 AM | 35 | 31 | 18 | 5 | 66 | 18 |  |  |
| 1:00 AM | 18 | 17 | 16 | 6 | 35 | 16 |  |  |
| 2:00 AM | 18 | 18 | 13 | 5 | 36 | 13 |  |  |
| 3:00 AM | 13 | 14 | 16 | 2 | 27 | 16 |  |  |
| 4:00 AM | 16 | 24 | 20 | 3 | 40 | 20 |  |  |
| 5:00 AM | 44 | 46 | 28 | 6 | 90 | 28 |  |  |
| 6:00 AM | 62 | 62 | 43 | 21 | 124 | 43 |  |  |
| 7:00 AM | 105 | 83 | 64 | 35 | 188 | 64 |  |  |
| 8:00 AM | 147 | 106 | 68 | 25 | 253 | 68 |  |  |
| 9:00 AM | 142 | 101 | 61 | 26 | 243 | 61 |  |  |
| 10:00 AM | 155 | 128 | 62 | 32 | 283 | 62 |  |  |
| 11:00 AM | 148 | 101 | 60 | 20 | 249 | 60 |  |  |
| 12:00 PM | 159 | 115 | 69 | 32 | 274 | 69 |  |  |
| 1:00 PM | 167 | 115 | 67 | 35 | 282 | 67 |  |  |
| 2:00 PM | 159 | 107 | 57 | 37 | 266 | 57 |  |  |
| 3:00 PM | 178 | 120 | 60 | 38 | 298 | 60 |  |  |
| 4:00 PM | 186 | 112 | 55 | 35 | 298 | 55 |  |  |
| 5:00 PM | 160 | 125 | 59 | 38 | 285 | 59 |  |  |
| 6:00 PM | 119 | 109 | 51 | 37 | 228 | 51 |  |  |
| 7:00 PM | 106 | 92 | 36 | 27 | 198 | 36 |  |  |
| 8:00 PM | 91 | 89 | 38 | 20 | 180 | 38 |  |  |
| 9:00 PM | 79 | 80 | 40 | 20 | 159 | 40 |  |  |
| 10:00 PM | 66 | 59 | 33 | 16 | 125 | 33 |  |  |
| 11:00 PM | 51 | 49 | 26 | 8 | 100 | 26 |  |  |


$\qquad$
70\%

Warrant 2, Met: $\qquad$
$\qquad$

| Intersection Name: | Rocker \& Nissler/Grizzly |
| ---: | :--- |
| Major Street Name: | Rocker |
| Minor Street Name: | Nissler/Grizzly |
| nber of Approaches: | $\frac{4}{4}$ Seconds |
| Interval: |  |


| Number of Stopped Vehicles |  | Number of Stopped Vehicles |  | Cars Served on Study Approach | Cars Served at Intersection |
| :---: | :---: | :---: | :---: | :---: | :---: |
| Min/Sec | 0 | Min/Sec | 0 | Interval No. | Interval No. |
| 0 |  | 0 |  | 1 | 1 |
| 1 |  | 1 |  | 2 | 2 |
| 2 |  | 2 |  | 3 | 3 |
| 3 |  | 3 |  | 4 | 4 |
| 4 |  | 4 |  | 5 | 5 |
| 5 |  | 5 |  | 6 | 6 |
| 6 |  | 6 |  | 7 | 7 |
| 7 |  | 7 |  | 8 | 8 |
| 8 |  | 8 |  |  |  |
| 9 |  | 9 |  | Cars Served | Cars Served |
| 10 |  | 10 |  | on Study Approach | at Intersection |
| 11 |  | 11 |  | Hourly Sum | Hourly Sum |
| 12 |  | 12 |  | 1 | 1 |
| 13 |  | 13 |  | 2 | 2 |
| 14 |  | 14 |  | 3 | 3 |
| 15 |  | 15 |  | 4 | 4 |
| 16 |  | 16 |  | 5 | 5 |
| 17 |  | 17 |  |  |  |
| 18 |  | 18 |  | Vehicles Stopped |  |
| 19 |  | 19 |  | on Study Approach |  |
| 20 |  | 20 |  | Hourly Totals |  |
| 21 |  | 21 |  | 1 |  |
| 22 |  | 22 |  | 2 |  |
| 23 |  | 23 |  | 3 |  |
| 24 |  | 24 |  | 4 |  |
| 25 |  | 25 |  | 5 |  |
| 26 |  | 26 |  |  |  |
| 27 |  | 27 |  |  |  |
| 28 |  | 28 |  | Total Number of Stoppe | Vehicles |
| 29 |  | 29 |  | Vehicles Served on App | roach Leg |
| 30 |  | 30 |  |  |  |
| 31 |  | 31 |  |  |  |
| 32 |  | 32 |  | Stopped Delay | sec/veh |
| 33 |  | 33 |  | Stopped Delay | veh-hrs |
| 34 |  | 34 |  |  |  |
| 35 |  | 35 |  |  |  |
| 36 |  | 36 |  |  |  |
| 37 |  | 37 |  |  |  |
| 38 |  | 38 |  |  |  |
| 39 |  | 39 |  |  |  |
| 40 |  | 40 |  |  |  |
| 41 |  | 41 |  |  |  |
| 42 |  | 42 |  |  |  |
| 43 |  | 43 |  |  |  |
| 44 |  | 44 |  |  |  |
| 45 |  | 45 |  |  |  |
| 46 |  | 46 |  |  |  |
| 47 |  | 47 |  |  |  |
| 48 |  | 48 |  |  |  |
| 49 |  | 49 |  |  |  |
| 50 |  | 50 |  |  |  |
| 51 |  | 51 |  |  |  |
| 52 |  | 52 |  |  |  |
| 53 |  | 53 |  |  |  |
| 54 |  | 54 |  |  |  |
| 55 |  | 55 |  |  |  |
| 56 |  | 56 |  |  |  |
| 57 |  | 57 |  |  |  |
| 58 |  | 58 |  |  |  |
| 59 |  | 59 |  |  |  |




Intersection Name: Rocker \& Nissler/Grizzly
$\begin{array}{ll}\text { Major Street Name: } & \text { Rocker } \\ \text { Minor Street Name: } & \\ \text { Nissler/Grizzly }\end{array}$
Location less than 300 ' from nearest signal?
No

Is the roadway divided by a median with sufficient width
for pedestrians to wait? |No $\quad$ |l

| Pedestrian Volume Across Major Street |  | Vehicular Gaps Across Major Street |
| :---: | :---: | :---: |
| 12:00 AM |  |  |
| 1:00 AM |  |  |
| 2:00 AM |  |  |
| 3:00 AM |  |  |
| 4:00 AM |  |  |
| 5:00 AM |  |  |
| 6:00 AM |  |  |
| 7:00 AM |  |  |
| 8:00 AM |  |  |
| 9:00 AM |  |  |
| 10:00 AM |  |  |
| 11:00 AM |  |  |
| 12:00 PM |  |  |
| 1:00 PM |  |  |
| 2:00 PM |  |  |
| 3:00 PM |  |  |
| 4:00 PM |  |  |
| 5:00 PM |  |  |
| 6:00 PM |  |  |
| 7:00 PM |  |  |
| 8:00 PM |  |  |
| 9:00 PM |  |  |
| 10:00 PM |  |  |
| 11:00 PM |  |  |
| Warrant 4, Condition A Met: | N/A |  |
| Warrant 4, Condition B Met: | N/A |  |
| Warrant 4, Met: | N/A |  |

Intersection Name: Rocker \& Nissler/Grizzly
$\begin{array}{ll}\text { Major Street Name: } & \text { Rocker } \\ \text { Minor Street Name: } & \\ \text { Nissler/Grizzly }\end{array}$
Location less than 300' from nearest signal? No

|  |  | Sinish |
| :--- | :---: | :---: |
| Interval 1 | - |  |
| Interval 2 | - |  |
| Interval 3 | - |  |
| Interval 4 | - |  |
| Interval 5 |  |  |
| Interval 6 |  |  |
| Student Volume | Vehicular Gaps |  |
| Across Major Street | Across Major Street |  |
| Interval 1 |  |  |
| Interval 2 |  |  |
| Interval 3 |  |  |
| Interval 4 |  |  |
| Interval 5 |  |  |
| Interval 6 |  |  |

Warrant 5, Met: $\qquad$
$\qquad$

Intersection Name: Rocker \& Nissler/Grizzly
Major Street Name: Rocker
Minor Street Name: Nissler/Grizzly
*The Coordinated Signal System signal warrant should not be applied
where the resultant spacing of traffic control signals would be less than 1000'.

Condition A:
On a one-way street or a street that has traffic predominantly in one direction, the adjacent traffic control signals
are so far apart that they do not provide the necessary degree of vehicular platooning.
Warrant 6, Condition A met: $\quad \bar{\square}$

## Condition B:

On a two-way street, adjacent traffic control signals do not provide the necessary degree of platooning and the proposed and adjacent traffic control signals will collectively provide a progressive operation.

```
Warrant 6, Condition B met:| F
```

Warrant 6, Met: N/A

Intersection Name: Rocker \& Nissler/Grizzly
Major Street Name: Rocker
Minor Street Name: Nissler/Grizzly
*Major street speed exceeds 40 mph or isolated
community with a population less than 10,000 ? $\qquad$
Condition A:
Adequate trial of alternatives with satisfactory observance and enforcement has failed
to reduce the crash frequency
Warrant 7, Condition A met: $N$ No $\quad \nabla$
Condition B:
Five or more reported crashes, of types susceptible to correction by a traffic control signal,
have occurred within a 12 -month period, each crash involving personal injury or property
damage apparently exceeding the applicable requirements for a reportable crash
Number of Correctable Crashes: 2
Warrant 7, Condition B met: $\qquad$
Condition C:
For each of any 8 hours of an average day, the vehicles per hour ( vph ) given in both of the
$80 \%$ columns of Condition A in Table 4C-1, or the vph in both of the $80 \%$ columns of Condition B
in Table 4C-1 exists on the major-street and the higher-volume minor-street approach, respectively,
to the intersection, or the volume of pedestrian traffic is not less than $80 \%$ of the requirements
specified in the Pedestrian Volume warrant.
80\% conditions Condition A in Table 4C-1 met: 80\% conditions Condition B in Table 4C-1 met $80 \%$ conditions Condition B in Table 4C-1 met
$\qquad$ N $30 \%$ of Pedestrian Volume Warrant Volumes met: $\qquad$

|  | 80\% Condition A in Table 4C-1 $80 \%$ Condition B in Table 4C-1 |  | 80\% Pedestrian Volumes |
| :---: | :---: | :---: | :---: |
| 12:00 AM |  |  |  |
| 1:00 AM |  |  |  |
| 2:00 AM |  |  |  |
| 3:00 AM |  |  |  |
| 4:00 AM |  |  |  |
| 5:00 AM |  |  |  |
| 6:00 AM |  |  |  |
| 7:00 AM |  |  |  |
| 8:00 AM |  |  |  |
| 9:00 AM |  |  |  |
| 10:00 AM |  |  |  |
| 11:00 AM |  |  |  |
| 12:00 PM |  |  |  |
| 1:00 PM |  |  |  |
| 2:00 PM |  |  |  |
| 3:00 PM |  |  |  |
| 4:00 PM |  |  |  |
| 5:00 PM |  |  |  |
| 6:00 PM |  |  |  |
| 7:00 PM |  |  |  |
| 8:00 PM |  |  |  |
| 9:00 PM |  |  |  |
| 10:00 PM |  |  |  |
| 11:00 PM |  |  |  |
|  | 0 | 0 | 0 |

Warrant 7, Met: $\qquad$

Intersection Name: Rocker \& Nissler/Grizzly
Major Street Name: Rocker
Minor Street Name: Nissler/Grizzly

* This warrant shall only be considered if the location is an intersection of two or more major routes.

A major route as used in this signal warrant shall have one or more of the following characteristics:

1. It is part of the street or highway system that serves as the principal roadway network for through traffic flow; or
2. It includes rural or suburban highways outside, entering, or traversing a city; or
3. It appears as a major route on an official plan, such as a major street plan in an urban area traffic and transportation study.

Does the study intersection consist of two or more major routes? ${ }^{\text {No }} \quad-$

## Condition A

The intersection has a total existing, or immediately projected, entering volume of at least 1,000 vehicles per hour during the peak hour of a typical weekday and has 5 -year projected traffic volumes, based on an engineering study, that meet one or more of warrants 1,2 , and 3 during an average weekday; or

$$
\begin{aligned}
& \text { At least 1,000 vehicles entering the intersection: } \quad \text { N/A } \\
& \qquad \text { Warrant 8, Condition A met: } \frac{\mathrm{N} / \mathrm{A}}{}
\end{aligned}
$$

Condition B
The intersection has a total existing, or immediately projected, entering volume of at least 1,000 vehicles per hour for each of any 5 hours of a nonnormal business day (Saturday or Sunday).

Warrant 8, Condition B met: $\qquad$

Warrant 8, met: $\qquad$

| Condition A - Minimum Vehicular Volume |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| No. of Lanes |  | VPH total on major street |  |  |  | VPH on higher vol minor street |  |  |  |
| Major | Minor | $100 \%{ }^{\text {a }}$ | 80\% ${ }^{\text {b }}$ | $70 \%{ }^{\text {c }}$ | 56\% ${ }^{\text {d }}$ | 100\% ${ }^{\text {a }}$ | $80 \%{ }^{\text {b }}$ | $70 \%{ }^{\text {c }}$ | $56 \%{ }^{\text {d }}$ |
| 1 | 1 | 500 | 400 | 350 | 280 | 150 | 120 | 105 | 84 |
| 2 | 1 | 600 | 480 | 420 | 336 | 150 | 120 | 105 | 84 |
| 2 | 2 | 600 | 480 | 420 | 336 | 200 | 160 | 140 | 112 |
| 1 | 2 | 500 | 400 | 350 | 280 | 200 | 160 | 140 | 112 |


| Condition B - Interupption of Continuous Traffic |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| No. of Lanes |  | VPH total on major street |  |  |  | VPH on higher vol minor street |  |  |  |
| Major | Minor | $100 \%^{\text {a }}$ | $80 \%{ }^{\text {b }}$ | $70 \%{ }^{\text {c }}$ | $56 \%{ }^{\text {d }}$ | $100 \%{ }^{\text {a }}$ | 80\% ${ }^{\text {b }}$ | $70 \%{ }^{\text {c }}$ | $56 \%{ }^{\text {d }}$ |
| 1 | 1 | 750 | 600 | 525 | 420 | 75 | 60 | 53 | 42 |
| 2 | 1 | 900 | 720 | 630 | 504 | 75 | 60 | 53 | 42 |
| 2 | 2 | 900 | 720 | 630 | 504 | 100 | 80 | 70 | 56 |
| 1 | 2 | 750 | 600 | 525 | 420 | 100 | 80 | 70 | 56 |

${ }^{\text {a }}$ Basic minimum hourly volume
${ }^{\mathrm{b}}$ Used for combination of Conditions A and B after adequate trial of other remedial measures.
${ }^{\text {c }}$ May be used when the major-street speed exceeds 40 mph or in an Isolated community
with a population of less than 10,000 .
May be used for combination of Conditions A and B after adequate trial of other remedial measures when the major-
street speed exceeds $70 \mathrm{~km} / \mathrm{h}$ or exceeds 40 mpn in an isolated community with a population less than 10,000

|  | Traffic Volume |  |  |  | Total Major | Higher Minor |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Major Street 1 | Major Street 2 | Minor Street 1 | Minor Street 2 | Street Vol | Street Vol |
| 12:00 AM | 3 | 7 | 4 | 6 | 10 | 6 |
| 1:00 AM | 6 | 6 | 3 | 3 | 12 | 3 |
| 2:00 AM | 3 | 6 | 3 | 3 | 9 | 3 |
| 3:00 AM | 11 | 5 | 1 | 1 | 16 | 1 |
| 4:00 AM | 11 | 5 | 5 | 3 | 16 | 5 |
| 5:00 AM | 24 | 11 | 23 | 22 | 35 | 23 |
| 6:00 AM | 37 | 26 | 41 | 36 | 63 | 41 |
| 7:00 AM | 70 | 46 | 104 | 57 | 116 | 104 |
| 8:00 AM | 116 | 46 | 97 | 73 | 162 | 97 |
| 9:00 AM | 54 | 36 | 77 | 44 | 90 | 77 |
| 10:00 AM | 79 | 36 | 53 | 64 | 115 | 64 |
| 11:00 AM | 92 | 68 | 43 | 79 | 160 | 79 |
| 12:00 PM | 70 | 56 | 57 | 64 | 126 | 64 |
| 1:00 PM | 88 | 39 | 43 | 64 | 127 | 64 |
| 2:00 PM | 86 | 46 | 68 | 77 | 132 | 77 |
| 3:00 PM | 95 | 44 | 52 | 137 | 139 | 137 |
| 4:00 PM | 98 | 84 | 64 | 92 | 182 | 92 |
| 5:00 PM | 104 | 83 | 58 | 140 | 187 | 140 |
| 6:00 PM | 80 | 54 | 65 | 92 | 134 | 92 |
| 7:00 PM | 73 | 48 | 82 | 68 | 121 | 82 |
| 8:00 PM | 60 | 22 | 36 | 60 | 82 | 60 |
| 9:00 PM | 32 | 29 | 35 | 58 | 61 | 58 |
| 10:00 PM | 33 | 20 | 28 | 57 | 53 | 57 |
| 11:00 PM | 9 | 14 | 10 | 11 | 23 | 11 |


|  | Condition A |  | Condition B |  | Combination | Combination |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | 100\% | 70\% | 100\% | 70\% | 80\% | 56\% |
| 12:00 AM |  |  |  |  |  |  |
| 1:00 AM |  |  |  |  |  |  |
| 2:00 AM |  |  |  |  |  |  |
| 3:00 AM |  |  |  |  |  |  |
| 4:00 AM |  |  |  |  |  |  |
| 5:00 AM |  |  |  |  |  |  |
| 6:00 AM |  |  |  |  |  |  |
| 7:00 AM |  |  |  |  |  |  |
| 8:00 AM |  |  |  |  |  |  |
| 9:00 AM |  |  |  |  |  |  |
| 10:00 AM |  |  |  |  |  |  |
| 11:00 AM |  |  |  |  |  |  |
| 12:00 PM |  |  |  |  |  |  |
| 1:00 PM |  |  |  |  |  |  |
| 2:00 PM |  |  |  |  |  |  |
| 3:00 PM |  |  |  |  |  |  |
| 4:00 PM |  |  |  |  |  |  |
| 5:00 PM |  |  |  |  |  |  |
| 6:00 PM |  |  |  |  |  |  |
| 7:00 PM |  |  |  |  |  |  |
| 8:00 PM |  |  |  |  |  |  |
| 9:00 PM |  |  |  |  |  |  |
| 10:00 PM |  |  |  |  |  |  |
| 11:00 PM |  |  |  |  |  |  |
|  | 0 | 0 | 0 | 0 | 0 | 0 |

[^6]Intersection Name: Mt. Highland \& Continental Dr.
Major Street Name: Mt. Highland No. of Lanes: 2 or more
Minor Street Name: Continental Dr. No. of Lanes: 2 or more
*Major street speed exceeds 40 mph or isolated
community with a population less than 10,000 ?
No

|  | Traffic Volume |  |  |  | Total Major | Higher Minor | 100\% | 70\% |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Major Street 1 | Major Street 2 | Minor Street 1 | Minor Street 2 | Street Vol | Street Vol | Met | Met |
| 12:00 AM | 3 | 7 | 4 | 6 | 10 | 6 |  |  |
| 1:00 AM | 6 | 6 | 3 | 3 | 12 | 3 |  |  |
| 2:00 AM | 3 | 6 | 3 | 3 | 9 |  |  |  |
| 3:00 AM | 11 | 5 | 1 | 1 | 16 | 1 |  |  |
| 4:00 AM | 11 | 5 | 5 | 3 | 16 | 5 |  |  |
| 5:00 AM | 24 | 11 | 23 | 22 | 35 | 23 |  |  |
| 6:00 AM | 37 | 26 | 41 | 36 | 63 | 41 |  |  |
| 7:00 AM | 70 | 46 | 104 | 57 | 116 | 104 |  |  |
| 8:00 AM | 116 | 46 | 97 | 73 | 162 | 97 |  |  |
| 9:00 AM | 54 | 36 | 77 | 44 | 90 | 77 |  |  |
| 10:00 AM | 79 | 36 | 53 | 64 | 115 | 64 |  |  |
| 11:00 AM | 92 | 68 | 43 | 79 | 160 | 79 |  |  |
| 12:00 PM | 70 | 56 | 57 | 64 | 126 | 64 |  |  |
| 1:00 PM | 88 | 39 | 43 | 64 | 127 | 64 |  |  |
| 2:00 PM | 86 | 46 | 68 | 77 | 132 | 77 |  |  |
| 3:00 PM | 95 | 44 | 52 | 137 | 139 | 137 |  |  |
| 4:00 PM | 98 | 84 | 64 | 92 | 182 | 92 |  |  |
| 5:00 PM | 104 | 83 | 58 | 140 | 187 | 140 |  |  |
| 6:00 PM | 80 | 54 | 65 | 92 | 134 | 92 |  |  |
| 7:00 PM | 73 | 48 | 82 | 68 | 121 | 82 |  |  |
| 8:00 PM | 60 | 22 | 36 | 60 | 82 | 60 |  |  |
| 9:00 PM | 32 | 29 | 35 | 58 | 61 | 58 |  |  |
| 10:00 PM | 33 | 20 | 28 | 57 | 53 | 57 |  |  |
| 11:00 PM | 9 | 14 | 10 | 11 | 23 | 11 |  |  |


$\qquad$
$100 \% \quad$ No
70\%

Warrant 2, Met: $\qquad$

Intersection Name: Mt. Highland \& Continental Dr.
Major Street Name: $M$ Mt. Highland
Minor Street Name:
Continental Dr
nber of Approaches: Interval: $\qquad$

|  | Number of Stopped Vehicles |  | Number of Stopped Vehicles |
| :---: | :---: | :---: | :---: |
| Min/Sec | 0 | Min/Sec | 0 |
| 0 |  | 0 |  |
| 1 |  | 1 |  |
| 2 |  | 2 |  |
| 3 |  | 3 |  |
| 4 |  | 4 |  |
| 5 |  | 5 |  |
| 6 |  | 6 |  |
| 7 |  | 7 |  |
| 8 |  | 8 |  |
| 9 |  | 9 |  |
| 10 |  | 10 |  |
| 11 |  | 11 |  |
| 12 |  | 12 |  |
| 13 |  | 13 |  |
| 14 |  | 14 |  |
| 15 |  | 15 |  |
| 16 |  | 16 |  |
| 17 |  | 17 |  |
| 18 |  | 18 |  |
| 19 |  | 19 |  |
| 20 |  | 20 |  |
| 21 |  | 21 |  |
| 22 |  | 22 |  |
| 23 |  | 23 |  |
| 24 |  | 24 |  |
| 25 |  | 25 |  |
| 26 |  | 26 |  |
| 27 |  | 27 |  |
| 28 |  | 28 |  |
| 29 |  | 29 |  |
| 30 |  | 30 |  |
| 31 |  | 31 |  |
| 32 |  | 32 |  |
| 33 |  | 33 |  |
| 34 |  | 34 |  |
| 35 |  | 35 |  |
| 36 |  | 36 |  |
| 37 |  | 37 |  |
| 38 |  | 38 |  |
| 39 |  | 39 |  |
| 40 |  | 40 |  |
| 41 |  | 41 |  |
| 42 |  | 42 |  |
| 43 |  | 43 |  |
| 44 |  | 44 |  |
| 45 |  | 45 |  |
| 46 |  | 46 |  |
| 47 |  | 47 |  |
| 48 |  | 48 |  |
| 49 |  | 49 |  |
| 50 |  | 50 |  |
| 51 |  | 51 |  |
| 52 |  | 52 |  |
| 53 |  | 53 |  |
| 54 |  | 54 |  |
| 55 |  | 55 |  |
| 56 |  | 56 |  |
| 57 |  | 57 |  |
| 58 |  | 58 |  |
| 59 |  | 59 |  |





Intersection Name: Mt. Highland \& Continental Dr.
Major Street Name: Mt. Highland
Minor Street Name: Continental Dr.
Location less than 300 ' from nearest signal?
No
Is the roadway divided by a median with sufficient width
for pedestrians to wait? |No $\quad$ |l

| Pedestrian Volume Across Major Street |  | Vehicular Gaps Across Major Street |
| :---: | :---: | :---: |
| 12:00 AM |  |  |
| 1:00 AM |  |  |
| 2:00 AM |  |  |
| 3:00 AM |  |  |
| 4:00 AM |  |  |
| 5:00 AM |  |  |
| 6:00 AM |  |  |
| 7:00 AM |  |  |
| 8:00 AM |  |  |
| 9:00 AM |  |  |
| 10:00 AM |  |  |
| 11:00 AM |  |  |
| 12:00 PM |  |  |
| 1:00 PM |  |  |
| 2:00 PM |  |  |
| 3:00 PM |  |  |
| 4:00 PM |  |  |
| 5:00 PM |  |  |
| 6:00 PM |  |  |
| 7:00 PM |  |  |
| 8:00 PM |  |  |
| 9:00 PM |  |  |
| 10:00 PM |  |  |
| 11:00 PM |  |  |
| Warrant 4, Condition A Met: | N/A |  |
| Warrant 4, Condition B Met: | N/A |  |
| Warrant 4, Met: | N/A |  |

Intersection Name: Mt. Highland \& Continental Dr.
Major Street Name:
Minor Street Name:

Mtighland
Continental Dr.
Location less than 300' from nearest signal? No

| Start | Finish |
| :---: | :---: |
| Interval 1 |  |
| Interval 2 |  |
| Interval 3 |  |
| Interval 4 |  |
| Interval 5 |  |
| Interval 6 |  |
| Student Volume Across Major Street | Vehicular Gaps Across Major Street |
| Interval 1 |  |
| Interval 2 |  |
| Interval 3 |  |
| Interval 4 |  |
| Interval 5 |  |
| Interval 6 |  |

Warrant 5, Met: $\qquad$
$\qquad$

Intersection Name: Mt. Highland \& Continental Dr.
$\begin{array}{ll}\text { Major Street Name: } \\ \text { Minor Street Name: } & \text { Mighland } \\ \text { Continental Dr. }\end{array}$
Minor Street Name: Continental Dr.
*The Coordinated Signal System signal warrant should not be applied
where the resultant spacing of traffic control signals would be less than $\mathbf{1 0 0 0}^{\circ}$.

Condition A:
On a one-way street or a street that has traffic predominantly in one direction, the adjacent traffic control signals
are so far apart that they do not provide the necessary degree of vehicular platooning.
Warrant 6, Condition A met: $\quad \nabla$
Condition B:
On a two-way street, adjacent traffic control signals do not provide the necessary degree of platooning and the proposed and adjacent traffic control signals will collectively provide a progressive operation.

```
Warrant 6, Condition B met:| F
```

Warrant 6, Met: N/A

Intersection Name: Mt. Highland \& Continental Dr.
Major Street Name: Mt. Highland
Minor Street Name: Continental Dr.
*Major street speed exceeds $\mathbf{4 0 ~ \mathrm { mph }}$ or isolated
community with a population less than 10,000 ? $\qquad$ No

Condition A:
Adequate trial of alternatives with satisfactory observance and enforcement has failed
to reduce the crash frequency

$$
\text { Warrant 7, Condition A met: } \text { № } \quad \text { | }
$$

Condition B:
Five or more reported crashes, of types susceptible to correction by a traffic control signal,
have occurred within a 12 -month period, each crash involving personal injury or property
damage apparently exceeding the applicable requirements for a reportable crash
Number of Correctable Crashes: 1
Warrant 7, Condition B met:
Condition C:
For each of any 8 hours of an average day, the vehicles per hour (vph) given in both of the
$80 \%$ columns of Condition A in Table 4C-1, or the vph in both of the $80 \%$ columns of Condition B
in Table 4C-1 exists on the major-street and the higher-volume minor-street approach, respectively,
to the intersection, or the volume of pedestrian traffic is not less than $80 \%$ of the requirements
specified in the Pedestrian Volume warrant.
80\% conditions Condition A in Table 4C-1 met: 80\% conditions Condition B in Table 4C-1 met $80 \%$ conditions Condition B in Table 4C-1 met
$\qquad$ N $0 \%$ of Pedestrian Volume Warrant Volumes met: $\qquad$

|  | 80\% Condition A in Table 4C-1 | 80\% Condition B in Table 4C-1 | 80\% Pedestrian Volumes |
| :---: | :---: | :---: | :---: |
| 12:00 AM |  |  |  |
| 1:00 AM |  |  |  |
| 2:00 AM |  |  |  |
| 3:00 AM |  |  |  |
| 4:00 AM |  |  |  |
| 5:00 AM |  |  |  |
| 6:00 AM |  |  |  |
| 7:00 AM |  |  |  |
| 8:00 AM |  |  |  |
| 9:00 AM |  |  |  |
| 10:00 AM |  |  |  |
| 11:00 AM |  |  |  |
| 12:00 PM |  |  |  |
| 1:00 PM |  |  |  |
| 2:00 PM |  |  |  |
| 3:00 PM |  |  |  |
| 4:00 PM |  |  |  |
| 5:00 PM |  |  |  |
| 6:00 PM |  |  |  |
| 7:00 PM |  |  |  |
| 8:00 PM |  |  |  |
| 9:00 PM |  |  |  |
| 10:00 PM |  |  |  |
| 11:00 PM |  |  |  |
|  | 0 | 0 | 0 |

Warrant 7, Met: $\qquad$

Intersection Name: Mt. Highland \& Continental Dr.
Major Street Name: Mt. Highland
Minor Street Name: Continental Dr.

* This warrant shall only be considered if the location is an intersection of two or more major routes.

A major route as used in this signal warrant shall have one or more of the following characteristics:

1. It is part of the street or highway system that serves as the principal roadway network for through traffic flow; or
2. It includes rural or suburban highways outside, entering, or traversing a city; or
3. It appears as a major route on an official plan, such as a major street plan in an urban area traffic and transportation study.

Does the study intersection consist of two or more major routes? ${ }^{\text {No }} \quad-$

## Condition A

The intersection has a total existing, or immediately projected, entering volume of at least 1,000 vehicles per hour during the peak hour of a typical weekday and has 5 -year projected traffic volumes, based on an engineering study, that meet one or more of warrants 1, 2, and 3 during an average weekday; or

$$
\begin{aligned}
& \text { At least 1,000 vehicles entering the intersection: } \quad \text { N/A } \\
& \qquad \text { Warrant 8, Condition A met: } \frac{\mathrm{N} / \mathrm{A}}{}
\end{aligned}
$$

Condition B
The intersection has a total existing, or immediately projected, entering volume of at least 1,000 vehicles per hour for each of any 5 hours of a nonnormal business day (Saturday or Sunday).

Warrant 8, Condition B met: $\qquad$

Warrant 8, met: $\qquad$
$\begin{array}{ll}\text { Major Street Name: } \\ \text { Minor Street Name: } & \\ \text { Harrison Ave. No. of Lanes: } \\ \text { Eastbound Off }\end{array}$
Minor Street Name: Eastbound Off No. of Lanes: *Major street speed exceeds 40 mph or isolated community with a population less than 10,000 ?
$\qquad$ No

| Condition A - Minimum Vehicular Volume |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| No. of Lanes |  | VPH total on major street |  |  |  | VPH on higher vol minor street |  |  |  |
| Major | Minor | $100 \%{ }^{\text {a }}$ | $80 \%^{\text {b }}$ | $70 \%^{\text {c }}$ | $56 \%{ }^{\text {d }}$ | $100 \%^{\text {a }}$ | $80 \%{ }^{\text {b }}$ | 70\% ${ }^{\text {c }}$ | $56 \%{ }^{\text {d }}$ |
| 1 | 1 | 500 | 400 | 350 | 280 | 150 | 120 | 105 | 84 |
| 2 | 1 | 600 | 480 | 420 | 336 | 150 | 120 | 105 | 84 |
| 2 | 2 | 600 | 480 | 420 | 336 | 200 | 160 | 140 | 112 |
| 1 | 2 | 500 | 400 | 350 | 280 | 200 | 160 | 140 | 112 |


| Condition B - Interupption of Continuous Traffic |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| No. of Lanes |  | VPH total on major street |  |  |  | VPH on higher vol minor street |  |  |  |
| Major | Minor | $100 \%^{\text {a }}$ | $80 \%{ }^{\text {b }}$ | $70 \%{ }^{\text {c }}$ | $56 \%{ }^{\text {d }}$ | 100\% ${ }^{\text {a }}$ | $80 \%{ }^{\text {b }}$ | $70 \%{ }^{\text {c }}$ | $56 \%{ }^{\text {d }}$ |
| 1 | 1 | 750 | 600 | 525 | 420 | 75 | 60 | 53 | 42 |
| 2 | 1 | 900 | 720 | 630 | 504 | 75 | 60 | 53 | 42 |
| 2 | 2 | 900 | 720 | 630 | 504 | 100 | 80 | 70 | 56 |
| 1 | 2 | 750 | 600 | 525 | 420 | 100 | 80 | 70 | 56 |

${ }^{\mathrm{a}}$ Basic minimum hourly volume.
${ }^{\mathrm{b}}$ Used for combination of Conditions A and B after adequate trial of other remedial measures.
${ }^{\text {c }}$ May be used when the major-street speed exceeds 40 mph or in an Isolated community
with a population of less than 10,000 .
May be used for combination of Conditions A and B after adequate trial of other remedial measures when the major-
street speed exceeds $70 \mathrm{~km} / \mathrm{h}$ or exceeds 40 mpn in an isolated community with a population less than 10,000

|  | Traffic Volume |  |  |  | Total Major | Higher Minor |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Major Street 1 | Major Street 2 | Minor Street 1 | Minor Street 2 | Street Vol | Street Vol |
| 12:00 AM | 115 | 127 | 0 | 16 | 242 | 16 |
| 1:00 AM | 71 | 64 | 0 | 6 | 135 | 6 |
| 2:00 AM | 59 | 44 | 0 | 5 | 103 | 5 |
| 3:00 AM | 41 | 42 | 0 | 2 | 83 | 2 |
| 4:00 AM | 72 | 42 | 0 | 3 | 114 | 3 |
| 5:00 AM | 164 | 126 | 0 | 33 | 290 | 33 |
| 6:00 AM | 288 | 212 | 0 | 43 | 500 | 43 |
| 7:00 AM | 550 | 415 | 0 | 124 | 965 | 124 |
| 8:00 AM | 729 | 559 | 0 | 160 | 1288 | 160 |
| 9:00 AM | 773 | 654 | 0 | 114 | 1427 | 114 |
| 10:00 AM | 845 | 754 | 0 | 117 | 1599 | 117 |
| 11:00 AM | 1095 | 929 | 0 | 110 | 2024 | 110 |
| 12:00 PM | 1281 | 1177 | 0 | 168 | 2458 | 168 |
| 1:00 PM | 1202 | 1095 | 0 | 154 | 2297 | 154 |
| 2:00 PM | 1174 | 1118 | 0 | 153 | 2292 | 153 |
| 3:00 PM | 1154 | 1088 | 0 | 208 | 2242 | 208 |
| 4:00 PM | 1165 | 1124 | 0 | 272 | 2289 | 272 |
| 5:00 PM | 1156 | 1117 | 0 | 280 | 2273 | 280 |
| 6:00 PM | 967 | 935 | 0 | 203 | 1902 | 203 |
| 7:00 PM | 779 | 753 | 0 | 158 | 1532 | 158 |
| 8:00 PM | 642 | 634 | 0 | 124 | 1276 | 124 |
| 9:00 PM | 576 | 585 | 0 | 97 | 1161 | 97 |
| 10:00 PM | 464 | 370 | 0 | 100 | 834 | 100 |
| 11:00 PM | 227 | 241 | 0 | 63 | 468 | 63 |



[^7]Warrant 2, Four-Hour Vehicluar Volume

Intersection Name: Eastbound Off \& Harrison Ave.
Major Street Name: Harrison Ave. No. of Lanes: 2 or more
Minor Street Name: Eastbound Off No. of Lanes:
*Major street speed exceeds 40 mph or isolated
community with a population less than 10,000 ? $\qquad$

|  | Traffic Volume |  |  |  | Total Major | Higher Minor | 100\% | 70\% |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Major Street 1 | Major Street 2 | Minor Street 1 | Minor Street 2 | Street Vol | Street Vol | Met | Met |
| 12:00 AM | 115 | 127 | 0 | 16 | 242 | 16 |  |  |
| 1:00 AM | 71 | 64 | 0 | 6 | 135 | 6 |  |  |
| 2:00 AM | 59 | 44 | 0 | 5 | 103 | 5 |  |  |
| 3:00 AM | 41 | 42 | 0 | 2 | 83 | 2 |  |  |
| 4:00 AM | 72 | 42 | 0 | 3 | 114 | 3 |  |  |
| 5:00 AM | 164 | 126 | 0 | 33 | 290 | 33 |  |  |
| 6:00 AM | 288 | 212 | 0 | 43 | 500 | 43 |  |  |
| 7:00 AM | 550 | 415 | 0 | 124 | 965 | 124 |  |  |
| 8:00 AM | 729 | 559 | 0 | 160 | 1288 | 160 | $\checkmark$ |  |
| 9:00 AM | 773 | 654 | 0 | 114 | 1427 | 114 | $\checkmark$ |  |
| 10:00 AM | 845 | 754 | 0 | 117 | 1599 | 117 | $\checkmark$ |  |
| 11:00 AM | 1095 | 929 | 0 | 110 | 2024 | 110 | $\checkmark$ |  |
| 12:00 PM | 1281 | 1177 | 0 | 168 | 2458 | 168 | $\checkmark$ |  |
| 1:00 PM | 1202 | 1095 | 0 | 154 | 2297 | 154 | $\checkmark$ |  |
| 2:00 PM | 1174 | 1118 | 0 | 153 | 2292 | 153 | $\checkmark$ |  |
| 3:00 PM | 1154 | 1088 | 0 | 208 | 2242 | 208 | $\checkmark$ |  |
| 4:00 PM | 1165 | 1124 | 0 | 272 | 2289 | 272 | $\checkmark$ |  |
| 5:00 PM | 1156 | 1117 | 0 | 280 | 2273 | 280 | $\checkmark$ |  |
| 6:00 PM | 967 | 935 | 0 | 203 | 1902 | 203 | $\checkmark$ |  |
| 7:00 PM | 779 | 753 | 0 | 158 | 1532 | 158 | $\checkmark$ |  |
| 8:00 PM | 642 | 634 | 0 | 124 | 1276 | 124 | $\checkmark$ |  |
| 9:00 PM | 576 | 585 | 0 | 97 | 1161 | 97 |  |  |
| 10:00 PM | 464 | 370 | 0 | 100 | 834 | 100 |  |  |
| 11:00 PM | 227 | 241 | 0 | 63 | 468 | 63 |  |  |


$\qquad$
70\%

Warrant 2, Met: $\qquad$
$\qquad$





Intersection Name: Eastbound Off \& Harrison Ave.
$\begin{array}{ll}\text { Major Street Name: } & \text { Harrison Ave. } \\ \text { Minor Street Name: } & \\ \text { Eastbound Off }\end{array}$
Location less than 300 ' from nearest signal?
No
Is the roadway divided by a median with sufficient width
for pedestrians to wait? |No $\quad$ |l

| Pedestrian Volume Across Major Street |  | Vehicular Gaps Across Major Street |
| :---: | :---: | :---: |
| 12:00 AM |  |  |
| 1:00 AM |  |  |
| 2:00 AM |  |  |
| 3:00 AM |  |  |
| 4:00 AM |  |  |
| 5:00 AM |  |  |
| 6:00 AM |  |  |
| 7:00 AM |  |  |
| 8:00 AM |  |  |
| 9:00 AM |  |  |
| 10:00 AM |  |  |
| 11:00 AM |  |  |
| 12:00 PM |  |  |
| 1:00 PM |  |  |
| 2:00 PM |  |  |
| 3:00 PM |  |  |
| 4:00 PM |  |  |
| 5:00 PM |  |  |
| 6:00 PM |  |  |
| 7:00 PM |  |  |
| 8:00 PM |  |  |
| 9:00 PM |  |  |
| 10:00 PM |  |  |
| 11:00 PM |  |  |
| Warrant 4, Condition A Met: | N/A |  |
| Warrant 4, Condition B Met: | N/A |  |
| Warrant 4, Met: | N/A |  |

Intersection Name: Eastbound Off \& Harrison Ave.
$\begin{array}{ll}\text { Major Street Name: } \\ \text { Minor Street Name: } & \text { Harrison Ave. } \\ \text { Eastbound Off }\end{array}$
Location less than 300' from nearest signal? No

|  |  | Sinish |
| :--- | :---: | :---: |
| Interval 1 | - |  |
| Interval 2 | - |  |
| Interval 3 | - |  |
| Interval 4 | - |  |
| Interval 5 |  |  |
| Interval 6 |  |  |
| Student Volume | Vehicular Gaps <br> Across Major Street | Across Major Street |

Warrant 5, Met: $\qquad$
$\qquad$

Intersection Name: Eastbound Off \& Harrison Ave.
Major Street Name: Harrison Ave.
Minor Street Name: Eastbound Off
*The Coordinated Signal System signal warrant should not be applied
where the resultant spacing of traffic control signals would be less than 1000'.

Condition A:
On a one-way street or a street that has traffic predominantly in one direction, the adjacent traffic control signals
are so far apart that they do not provide the necessary degree of vehicular platooning.
Warrant 6, Condition A met: $\quad \bar{\square}$

## Condition B:

On a two-way street, adjacent traffic control signals do not provide the necessary degree of platooning and the proposed and adjacent traffic control signals will collectively provide a progressive operation.

```
Warrant 6, Condition B met:| F
```

Warrant 6, Met: N/A

Intersection Name: Eastbound Off \& Harrison Ave.
Major Street Name: Harrison Ave.
Minor Street Name: Eastbound Off
*Major street speed exceeds $\mathbf{4 0 ~ \mathrm { mph }}$ or isolated
community with a population less than 10,000 ? $\qquad$
$\qquad$
Condition A:
Adequate trial of alternatives with satisfactory observance and enforcement has failed
to reduce the crash frequency
Warrant 7, Condition A met: $N$ No $\quad \nabla$
Condition B:
Five or more reported crashes, of types susceptible to correction by a traffic control signal,
have occurred within a 12-month period, each crash involving personal injury or property
damage apparently exceeding the applicable requirements for a reportable crash
Number of Correctable Crashes: 5
Warrant 7, Condition B met: $\qquad$ Y

Condition C:
For each of any 8 hours of an average day, the vehicles per hour ( vph ) given in both of the
$80 \%$ columns of Condition A in Table 4C-1, or the vph in both of the $80 \%$ columns of Condition B
in Table 4C-1 exists on the major-street and the higher-volume minor-street approach, respectively,
to the intersection, or the volume of pedestrian traffic is not less than $80 \%$ of the requirements
specified in the Pedestrian Volume warrant.
80\% conditions Condition A in Table 4C-1 met:
80\% conditions Condition B in Table 4C-1 met
80\% conditions Condition B in Table 4C-1 met: $\qquad$

|  | 80\% Condition A in Table 4C-1 | 80\% Condition B in Table 4C-1 | 80\% Pedestrian Volumes |
| :---: | :---: | :---: | :---: |
| 12:00 AM |  |  |  |
| 1:00 AM |  |  |  |
| 2:00 AM |  |  |  |
| 3:00 AM |  |  |  |
| 4:00 AM |  |  |  |
| 5:00 AM |  |  |  |
| 6:00 AM |  |  |  |
| 7:00 AM | $\checkmark$ | $\checkmark$ |  |
| 8:00 AM | $\checkmark$ | $\checkmark$ |  |
| 9:00 AM |  | $\checkmark$ |  |
| 10:00 AM |  | $\checkmark$ |  |
| 11:00 AM |  | $\checkmark$ |  |
| 12:00 PM | $\checkmark$ | $\checkmark$ |  |
| 1:00 PM | $\checkmark$ | $\checkmark$ |  |
| 2:00 PM | $\checkmark$ | $\checkmark$ |  |
| 3:00 PM | $\checkmark$ | $\checkmark$ |  |
| 4:00 PM | $\checkmark$ | $\checkmark$ |  |
| 5:00 PM | $\checkmark$ | $\checkmark$ |  |
| 6:00 PM | $\checkmark$ | $\checkmark$ |  |
| 7:00 PM | $\checkmark$ | $\checkmark$ |  |
| 8:00 PM | $\checkmark$ | $\checkmark$ |  |
| 9:00 PM |  | $\checkmark$ |  |
| 10:00 PM |  | $\checkmark$ |  |
| 11:00 PM |  |  |  |
|  | 11 | 16 | 0 |

Warrant 7, Met: $\qquad$

Intersection Name: Eastbound Off \& Harrison Ave.
Major Street Name: Harrison Ave.
Minor Street Name: Eastbound Off

* This warrant shall only be considered if the location is an intersection of two or more major routes.

A major route as used in this signal warrant shall have one or more of the following characteristics:

1. It is part of the street or highway system that serves as the principal roadway network for through traffic flow; or
2. It includes rural or suburban highways outside, entering, or traversing a city; or
3. It appears as a major route on an official plan, such as a major street plan in an urban area traffic and transportation study.

Does the study intersection consist of two or more major routes? ${ }^{\text {No }} \quad-$

## Condition A

The intersection has a total existing, or immediately projected, entering volume of at least 1,000 vehicles per hour during the peak hour of a typical weekday and has 5 -year projected traffic volumes, based on an engineering study, that meet one or more of warrants 1, 2, and 3 during an average weekday; or

$$
\begin{aligned}
& \text { At least 1,000 vehicles entering the intersection: } \quad \text { N/A } \\
& \qquad \text { Warrant 8, Condition A met: } \frac{\mathrm{N} / \mathrm{A}}{}
\end{aligned}
$$

Condition B
The intersection has a total existing, or immediately projected, entering volume of at least 1,000 vehicles per hour for each of any 5 hours of a nonnormal business day (Saturday or Sunday).

Warrant 8, Condition B met: $\qquad$

Warrant 8, met: $\qquad$
$\begin{array}{ll}\text { Major Street Name: } & \text { Eastbound Off \& Harrison Ave. } \\ \text { Minor Street Name: } & \text { Harrison Ave. No. of Lanes: }\end{array}$
Minor Street Name: Eastbound Off No. of Lanes: *Major street speed exceeds $\mathbf{4 0 ~ \mathrm { mph }}$ or isolated community with a population less than 10,000 ?
$\qquad$ No

| Condition A - Minimum Vehicular Volume |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| No. of Lanes |  | VPH total on major street |  |  |  | VPH on higher vol minor street |  |  |  |
| Major | Minor | $100 \%{ }^{\text {a }}$ | 80\% ${ }^{\text {b }}$ | $70 \%^{\text {c }}$ | $56 \%{ }^{\text {d }}$ | 100\% ${ }^{\text {a }}$ | $80 \%{ }^{\text {b }}$ | $70 \%{ }^{\text {c }}$ | $56 \%{ }^{\text {d }}$ |
| 1 | 1 | 500 | 400 | 350 | 280 | 150 | 120 | 105 | 84 |
| 2 | 1 | 600 | 480 | 420 | 336 | 150 | 120 | 105 | 84 |
| 2 | 2 | 600 | 480 | 420 | 336 | 200 | 160 | 140 | 112 |
| 1 | 2 | 500 | 400 | 350 | 280 | 200 | 160 | 140 | 112 |


| Condition B - Interupption of Continuous Traffic |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| No. of Lanes |  | VPH total on major street |  |  |  | VPH on higher vol minor street |  |  |  |
| Major | Minor | $100 \%^{\text {a }}$ | $80 \%{ }^{\text {b }}$ | $70 \%{ }^{\text {c }}$ | $56 \%{ }^{\text {d }}$ | 100\% ${ }^{\text {a }}$ | $80 \%{ }^{\text {b }}$ | $70 \%{ }^{\text {c }}$ | $56 \%{ }^{\text {d }}$ |
| 1 | 1 | 750 | 600 | 525 | 420 | 75 | 60 | 53 | 42 |
| 2 | 1 | 900 | 720 | 630 | 504 | 75 | 60 | 53 | 42 |
| 2 | 2 | 900 | 720 | 630 | 504 | 100 | 80 | 70 | 56 |
| 1 | 2 | 750 | 600 | 525 | 420 | 100 | 80 | 70 | 56 |

${ }^{\text {a }}$ Basic minimum hourly volume.
${ }^{\mathrm{b}}$ Used for combination of Conditions A and B after adequate trial of other remedial measures.
${ }^{\text {c }}$ May be used when the major-street speed exceeds 40 mph or in an Isolated community
with a population of less than 10,000.
May be used for combination of Conditions A and B after adequate trial of other remedial measures when the major-
street speed exceeds $70 \mathrm{~km} / \mathrm{h}$ or exceeds 40 mpn in an isolated community with a population less than 10,000

|  | Traffic Volume |  |  |  | Total Major | Higher Minor |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Major Street 1 | Major Street 2 | Minor Street 1 | Minor Street 2 | Street Vol | Street Vol |
| 12:00 AM | 96 | 136 | 27 | 0 | 232 | 27 |
| 1:00 AM | 70 | 62 | 13 | 0 | 132 | 13 |
| 2:00 AM | 48 | 48 | 12 | 0 | 96 | 12 |
| 3:00 AM | 32 | 39 | 10 | 0 | 71 | 10 |
| 4:00 AM | 57 | 38 | 12 | 0 | 95 | 12 |
| 5:00 AM | 138 | 135 | 20 | 0 | 273 | 20 |
| 6:00 AM | 284 | 208 | 49 | 0 | 492 | 49 |
| 7:00 AM | 531 | 435 | 98 | 0 | 966 | 98 |
| 8:00 AM | 687 | 601 | 114 | 0 | 1288 | 114 |
| 9:00 AM | 705 | 672 | 111 | 0 | 1377 | 111 |
| 10:00 AM | 746 | 761 | 96 | 0 | 1507 | 96 |
| 11:00 AM | 1059 | 958 | 117 | 0 | 2017 | 117 |
| 12:00 PM | 1253 | 1086 | 133 | 0 | 2339 | 133 |
| 1:00 PM | 1170 | 1056 | 127 | 0 | 2226 | 127 |
| 2:00 PM | 1123 | 1042 | 125 | 0 | 2165 | 125 |
| 3:00 PM | 1157 | 1063 | 121 | 0 | 2220 | 121 |
| 4:00 PM | 1119 | 1126 | 152 | 0 | 2245 | 152 |
| 5:00 PM | 1098 | 1205 | 156 | 0 | 2303 | 156 |
| 6:00 PM | 947 | 1003 | 138 | 0 | 1950 | 138 |
| 7:00 PM | 762 | 808 | 112 | 0 | 1570 | 112 |
| 8:00 PM | 624 | 677 | 81 | 0 | 1301 | 81 |
| 9:00 PM | 560 | 614 | 72 | 0 | 1174 | 72 |
| 10:00 PM | 456 | 415 | 52 | 0 | 871 | 52 |
| 11:00 PM | 489 | 267 | 34 | 0 | 756 | 34 |


|  | Condition A |  | Condition B |  | Combination | Combination |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | 100\% | 70\% | 100\% | 70\% | 80\% | 56\% |
| 12:00 AM |  |  |  |  |  |  |
| 1:00 AM |  |  |  |  |  |  |
| 2:00 AM |  |  |  |  |  |  |
| 3:00 AM |  |  |  |  |  |  |
| 4:00 AM |  |  |  |  |  |  |
| 5:00 AM |  |  |  |  |  |  |
| 6:00 AM |  |  |  |  |  |  |
| 7:00 AM |  |  | $\checkmark$ |  |  |  |
| 8:00 AM |  |  | $\checkmark$ |  |  |  |
| 9:00 AM |  |  | $\checkmark$ |  |  |  |
| 10:00 AM |  |  | $\checkmark$ |  |  |  |
| 11:00 AM |  |  | $\checkmark$ |  |  |  |
| 12:00 PM |  |  | $\checkmark$ |  |  |  |
| 1:00 PM |  |  | $\checkmark$ |  |  |  |
| 2:00 PM |  |  | $\checkmark$ |  |  |  |
| 3:00 PM |  |  | $\checkmark$ |  |  |  |
| 4:00 PM | $\checkmark$ |  | $\checkmark$ |  |  |  |
| 5:00 PM | $\checkmark$ |  | $\checkmark$ |  |  |  |
| 6:00 PM |  |  | $\checkmark$ |  |  |  |
| 7:00 PM |  |  | $\checkmark$ |  |  |  |
| 8:00 PM |  |  | $\checkmark$ |  |  |  |
| 9:00 PM |  |  |  |  |  |  |
| 10:00 PM |  |  |  |  |  |  |
| 11:00 PM |  |  |  |  |  |  |
|  | 2 | 0 | 14 | 0 | 0 | 0 |

[^8]Warrant 2, Four-Hour Vehicluar Volume

Intersection Name: Eastbound Off \& Harrison Ave.
Major Street Name: Harrison Ave. No. of Lanes: 2 or more
Minor Street Name: Eastbound Off No. of Lanes:
*Major street speed exceeds 40 mph or isolated
community with a population less than 10,000 ? No

|  | Traffic Volume |  |  |  | Total Major | Higher Minor | 100\% | 70\% |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Major Street 1 | Major Street 2 | Minor Street 1 | Minor Street 2 | Street Vol | Street Vol | Met | Met |
| 12:00 AM | 96 | 136 | 27 | 0 | 232 | 27 |  |  |
| 1:00 AM | 70 | 62 | 13 | 0 | 132 | 13 |  |  |
| 2:00 AM | 48 | 48 | 12 | 0 | 96 | 12 |  |  |
| 3:00 AM | 32 | 39 | 10 | 0 | 71 | 10 |  |  |
| 4:00 AM | 57 | 38 | 12 | 0 | 95 | 12 |  |  |
| 5:00 AM | 138 | 135 | 20 | 0 | 273 | 20 |  |  |
| 6:00 AM | 284 | 208 | 49 | 0 | 492 | 49 |  |  |
| 7:00 AM | 531 | 435 | 98 | 0 | 966 | 98 |  |  |
| 8:00 AM | 687 | 601 | 114 | 0 | 1288 | 114 | $\checkmark$ |  |
| 9:00 AM | 705 | 672 | 111 | 0 | 1377 | 111 | $\checkmark$ |  |
| 10:00 AM | 746 | 761 | 96 | 0 | 1507 | 96 | $\checkmark$ |  |
| 11:00 AM | 1059 | 958 | 117 | 0 | 2017 | 117 | $\checkmark$ |  |
| 12:00 PM | 1253 | 1086 | 133 | 0 | 2339 | 133 | $\checkmark$ |  |
| 1:00 PM | 1170 | 1056 | 127 | 0 | 2226 | 127 | $\checkmark$ |  |
| 2:00 PM | 1123 | 1042 | 125 | 0 | 2165 | 125 | $\checkmark$ |  |
| 3:00 PM | 1157 | 1063 | 121 | 0 | 2220 | 121 | $\checkmark$ |  |
| 4:00 PM | 1119 | 1126 | 152 | 0 | 2245 | 152 | $\checkmark$ |  |
| 5:00 PM | 1098 | 1205 | 156 | 0 | 2303 | 156 | $\checkmark$ |  |
| 6:00 PM | 947 | 1003 | 138 | 0 | 1950 | 138 | $\checkmark$ |  |
| 7:00 PM | 762 | 808 | 112 | 0 | 1570 | 112 | $\checkmark$ |  |
| 8:00 PM | 624 | 677 | 81 | 0 | 1301 | 81 |  |  |
| 9:00 PM | 560 | 614 | 72 | 0 | 1174 | 72 |  |  |
| 10:00 PM | 456 | 415 | 52 | 0 | 871 | 52 |  |  |
| 11:00 PM | 489 | 267 | 34 | 0 | 756 | 34 |  |  |


$\qquad$
70\%

Warrant 2, Met: $\qquad$
$\qquad$





Intersection Name: Eastbound Off \& Harrison Ave.
$\begin{array}{ll}\text { Major Street Name: } & \text { Harrison Ave. } \\ \text { Minor Street Name: } & \\ \text { Eastbound Off }\end{array}$
Location less than 300 ' from nearest signal?
No
Is the roadway divided by a median with sufficient width
for pedestrians to wait? |No $\quad$ |l

| Pedestrian Volume Across Major Street |  | Vehicular Gaps Across Major Street |
| :---: | :---: | :---: |
| 12:00 AM |  |  |
| 1:00 AM |  |  |
| 2:00 AM |  |  |
| 3:00 AM |  |  |
| 4:00 AM |  |  |
| 5:00 AM |  |  |
| 6:00 AM |  |  |
| 7:00 AM |  |  |
| 8:00 AM |  |  |
| 9:00 AM |  |  |
| 10:00 AM |  |  |
| 11:00 AM |  |  |
| 12:00 PM |  |  |
| 1:00 PM |  |  |
| 2:00 PM |  |  |
| 3:00 PM |  |  |
| 4:00 PM |  |  |
| 5:00 PM |  |  |
| 6:00 PM |  |  |
| 7:00 PM |  |  |
| 8:00 PM |  |  |
| 9:00 PM |  |  |
| 10:00 PM |  |  |
| 11:00 PM |  |  |
| Warrant 4, Condition A Met: | N/A |  |
| Warrant 4, Condition B Met: | N/A |  |
| Warrant 4, Met: | N/A |  |

Intersection Name: Eastbound Off \& Harrison Ave.
$\begin{array}{ll}\text { Major Street Name: } \\ \text { Minor Street Name: } & \text { Harrison Ave. } \\ \text { Eastbound Off }\end{array}$
Location less than 300' from nearest signal? No

|  |  | Sinish |
| :--- | :---: | :---: |
| Interval 1 | - |  |
| Interval 2 | - |  |
| Interval 3 | - |  |
| Interval 4 | - |  |
| Interval 5 |  |  |
| Interval 6 |  |  |
| Student Volume | Vehicular Gaps <br> Across Major Street | Across Major Street |

Warrant 5, Met: $\qquad$
$\qquad$

Intersection Name: Eastbound Off \& Harrison Ave.
Major Street Name: Harrison Ave.
Minor Street Name: Eastbound Off
*The Coordinated Signal System signal warrant should not be applied
where the resultant spacing of traffic control signals would be less than 1000'.

Condition A:
On a one-way street or a street that has traffic predominantly in one direction, the adjacent traffic control signals
are so far apart that they do not provide the necessary degree of vehicular platooning.
Warrant 6, Condition A met: $\quad \bar{\square}$

## Condition B:

On a two-way street, adjacent traffic control signals do not provide the necessary degree of platooning and the proposed and adjacent traffic control signals will collectively provide a progressive operation.

```
Warrant 6, Condition B met:| F
```

Warrant 6, Met: N/A

Intersection Name: Eastbound Off \& Harrison Ave.
Major Street Name: Harrison Ave.
Minor Street Name: Eastbound Off
*Major street speed exceeds 40 mph or isolated
community with a population less than 10,000 ? $\qquad$
Condition A:
Adequate trial of alternatives with satisfactory observance and enforcement has failed
to reduce the crash frequency
Warrant 7, Condition A met: $N$ No $\quad \nabla$
Condition B:
Five or more reported crashes, of types susceptible to correction by a traffic control signal,
have occurred within a 12-month period, each crash involving personal injury or property
damage apparently exceeding the applicable requirements for a reportable crash
Warrant 7, Condition B met: $\qquad$ $\square$

Condition C:
For each of any 8 hours of an average day, the vehicles per hour ( vph ) given in both of the
$80 \%$ columns of Condition A in Table 4C-1, or the vph in both of the $80 \%$ columns of Condition B
in Table 4C-1 exists on the major-street and the higher-volume minor-street approach, respectively,
to the intersection, or the volume of pedestrian traffic is not less than $80 \%$ of the requirements
specified in the Pedestrian Volume warrant.
80\% conditions Condition A in Table 4C-1 met: 80\% conditions Condition B in Table 4C-1 met: $\qquad$

|  | 80\% Condition A in Table 4C-1 | 80\% Condition B in Table 4C-1 | 80\% Pedestrian Volumes |
| :---: | :---: | :---: | :---: |
| 12:00 AM |  |  |  |
| 1:00 AM |  |  |  |
| 2:00 AM |  |  |  |
| 3:00 AM |  |  |  |
| 4:00 AM |  |  |  |
| 5:00 AM |  |  |  |
| 6:00 AM |  |  |  |
| 7:00 AM |  | $\checkmark$ |  |
| 8:00 AM |  | $\checkmark$ |  |
| 9:00 AM |  | $\checkmark$ |  |
| 10:00 AM |  | $\checkmark$ |  |
| 11:00 AM |  | $\checkmark$ |  |
| 12:00 PM | $\checkmark$ | $\checkmark$ |  |
| 1:00 PM | $\checkmark$ | $\checkmark$ |  |
| 2:00 PM | $\checkmark$ | $\checkmark$ |  |
| 3:00 PM | $\checkmark$ | $\checkmark$ |  |
| 4:00 PM | $\checkmark$ | $\checkmark$ |  |
| 5:00 PM | $\checkmark$ | $\checkmark$ |  |
| 6:00 PM | $\checkmark$ | $\checkmark$ |  |
| 7:00 PM |  | $\checkmark$ |  |
| 8:00 PM |  | $\checkmark$ |  |
| 9:00 PM |  | $\checkmark$ |  |
| 10:00 PM |  |  |  |
| 11:00 PM |  |  |  |
|  | 7 | 15 | 0 |

Warrant 7, Met: $\qquad$

Intersection Name: Eastbound Off \& Harrison Ave.
Major Street Name: Harrison Ave.
Minor Street Name: Eastbound Off

* This warrant shall only be considered if the location is an intersection of two or more major routes.

A major route as used in this signal warrant shall have one or more of the following characteristics:

1. It is part of the street or highway system that serves as the principal roadway network for through traffic flow; or
2. It includes rural or suburban highways outside, entering, or traversing a city; or
3. It appears as a major route on an official plan, such as a major street plan in an urban area traffic and transportation study.

Does the study intersection consist of two or more major routes? ${ }^{\text {No }} \quad-$

## Condition A

The intersection has a total existing, or immediately projected, entering volume of at least 1,000 vehicles per hour during the peak hour of a typical weekday and has 5 -year projected traffic volumes, based on an engineering study, that meet one or more of warrants 1, 2, and 3 during an average weekday; or

$$
\begin{aligned}
& \text { At least 1,000 vehicles entering the intersection: } \quad \text { N/A } \\
& \qquad \text { Warrant 8, Condition A met: } \frac{\mathrm{N} / \mathrm{A}}{}
\end{aligned}
$$

Condition B
The intersection has a total existing, or immediately projected, entering volume of at least 1,000 vehicles per hour for each of any 5 hours of a nonnormal business day (Saturday or Sunday).

Warrant 8, Condition B met: $\qquad$

Warrant 8, met: $\qquad$


| Condition A - Minimum Vehicular Volume |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| No. of Lanes |  | VPH total on major street |  |  |  | VPH on higher vol minor street |  |  |  |
| Major | Minor | $100 \%{ }^{\text {a }}$ | $80 \%^{\text {b }}$ | $70 \%^{\text {c }}$ | 56\% ${ }^{\text {d }}$ | $100 \%^{\text {a }}$ | 80\% ${ }^{\text {b }}$ | 70\% ${ }^{\text {c }}$ | $56 \%{ }^{\text {d }}$ |
| 1 | 1 | 500 | 400 | 350 | 280 | 150 | 120 | 105 | 84 |
| 2 | 1 | 600 | 480 | 420 | 336 | 150 | 120 | 105 | 84 |
| 2 | 2 | 600 | 480 | 420 | 336 | 200 | 160 | 140 | 112 |
| 1 | 2 | 500 | 400 | 350 | 280 | 200 | 160 | 140 | 112 |


| Condition B - Interupption of Continuous Traffic |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| No. of Lanes |  | VPH total on major street |  |  |  | VPH on higher vol minor street |  |  |  |
| Major | Minor | 100\% ${ }^{\text {a }}$ | 80\% ${ }^{\text {b }}$ | $70 \%{ }^{\text {c }}$ | $56 \%{ }^{\text {d }}$ | 100\% ${ }^{\text {a }}$ | $80 \%{ }^{\text {b }}$ | $70 \%{ }^{\text {c }}$ | $56 \%{ }^{\text {d }}$ |
| 1 | 1 | 750 | 600 | 525 | 420 | 75 | 60 | 53 | 42 |
| 2 | 1 | 900 | 720 | 630 | 504 | 75 | 60 | 53 | 42 |
| 2 | 2 | 900 | 720 | 630 | 504 | 100 | 80 | 70 | 56 |
| 1 | 2 | 750 | 600 | 525 | 420 | 100 | 80 | 70 | 56 |

${ }^{\text {a }}$ Basic minimum hourly volume.
${ }^{\mathrm{b}}$ Used for combination of Conditions A and B after adequate trial of other remedial measures.
May be used when the major-street speed exceeds 40 mph or in an Isolated community
with a population of less than 10,000 .
May be used for combination of Conditions A and B after adequate trial of other remedial measures when the major-
street speed exceeds $70 \mathrm{~km} / \mathrm{h}$ or exceeds 40 mpn in an isolated community with a population less than 10,000

|  | Traffic Volume |  |  |  | Total Major | Higher Minor |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Major Street 1 | Major Street 2 | Minor Street 1 | Minor Street 2 | Street Vol | Street Vol |
| 12:00 AM | 35 | 31 | 13 | 0 | 66 | 13 |
| 1:00 AM | 18 | 17 | 7 | 0 | 35 | 7 |
| 2:00 AM | 18 | 18 | 6 | 0 | 36 | 6 |
| 3:00 AM | 13 | 14 | 7 | 0 | 27 | 7 |
| 4:00 AM | 16 | 24 | 7 | 0 | 40 | 7 |
| 5:00 AM | 44 | 46 | 12 | 0 | 90 | 12 |
| 6:00 AM | 62 | 62 | 29 | 0 | 124 | 29 |
| 7:00 AM | 105 | 83 | 56 | 0 | 188 | 56 |
| 8:00 AM | 147 | 106 | 62 | 0 | 253 | 62 |
| 9:00 AM | 142 | 101 | 54 | 0 | 243 | 54 |
| 10:00 AM | 155 | 128 | 54 | 0 | 283 | 54 |
| 11:00 AM | 148 | 101 | 54 | 0 | 249 | 54 |
| 12:00 PM | 159 | 115 | 38 | 0 | 274 | 38 |
| 1:00 PM | 167 | 115 | 39 | 0 | 282 | 39 |
| 2:00 PM | 159 | 107 | 51 | 0 | 266 | 51 |
| 3:00 PM | 178 | 120 | 58 | 0 | 298 | 58 |
| 4:00 PM | 186 | 112 | 61 | 0 | 298 | 61 |
| 5:00 PM | 160 | 125 | 61 | 0 | 285 | 61 |
| 6:00 PM | 119 | 109 | 75 | 0 | 228 | 75 |
| 7:00 PM | 106 | 92 | 46 | 0 | 198 | 46 |
| 8:00 PM | 91 | 89 | 32 | 0 | 180 | 32 |
| 9:00 PM | 79 | 80 | 33 | 0 | 159 | 33 |
| 10:00 PM | 66 | 59 | 22 | 0 | 125 | 22 |
| 11:00 PM | 51 | 49 | 16 | 0 | 100 | 16 |



[^9]Warrant 2, Four-Hour Vehicluar Volume

Intersection Name: Rocker and EB Off
Major Street Name: Rocker_No. of Lanes: 2 or more
Minor Street Name: EB Off No. of Lanes:
*Major street speed exceeds $\mathbf{4 0 \mathrm { mph }}$ or isolated
community with a population less than 10,000 ? No $\qquad$

|  | Traffic Volume |  |  |  | Total Major | Higher Minor | 100\% | 70\% |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Major Street 1 | Major Street 2 | Minor Street 1 | Minor Street 2 | Street Vol | Street Vol | Met | Met |
| 12:00 AM | 35 | 31 | 13 | 0 | 66 | 13 |  |  |
| 1:00 AM | 18 | 17 | 7 | 0 | 35 | 7 |  |  |
| 2:00 AM | 18 | 18 | 6 | 0 | 36 | 6 |  |  |
| 3:00 AM | 13 | 14 | 7 | 0 | 27 | 7 |  |  |
| 4:00 AM | 16 | 24 | 7 | 0 | 40 | 7 |  |  |
| 5:00 AM | 44 | 46 | 12 | 0 | 90 | 12 |  |  |
| 6:00 AM | 62 | 62 | 29 | 0 | 124 | 29 |  |  |
| 7:00 AM | 105 | 83 | 56 | 0 | 188 | 56 |  |  |
| 8:00 AM | 147 | 106 | 62 | 0 | 253 | 62 |  |  |
| 9:00 AM | 142 | 101 | 54 | 0 | 243 | 54 |  |  |
| 10:00 AM | 155 | 128 | 54 | 0 | 283 | 54 |  |  |
| 11:00 AM | 148 | 101 | 54 | 0 | 249 | 54 |  |  |
| 12:00 PM | 159 | 115 | 38 | 0 | 274 | 38 |  |  |
| 1:00 PM | 167 | 115 | 39 | 0 | 282 | 39 |  |  |
| 2:00 PM | 159 | 107 | 51 | 0 | 266 | 51 |  |  |
| 3:00 PM | 178 | 120 | 58 | 0 | 298 | 58 |  |  |
| 4:00 PM | 186 | 112 | 61 | 0 | 298 | 61 |  |  |
| 5:00 PM | 160 | 125 | 61 | 0 | 285 | 61 |  |  |
| 6:00 PM | 119 | 109 | 75 | 0 | 228 | 75 |  |  |
| 7:00 PM | 106 | 92 | 46 | 0 | 198 | 46 |  |  |
| 8:00 PM | 91 | 89 | 32 | 0 | 180 | 32 |  |  |
| 9:00 PM | 79 | 80 | 33 | 0 | 159 | 33 |  |  |
| 10:00 PM | 66 | 59 | 22 | 0 | 125 | 22 |  |  |
| 11:00 PM | 51 | 49 | 16 | 0 | 100 | 16 |  |  |


$\qquad$
70\%

Warrant 2, Met: $\qquad$





Intersection Name: Rocker and EB Off
$\begin{array}{ll}\text { Major Street Name: } \\ \text { Minor Street Name: } & \\ \text { EB Off }\end{array}$
Location less than 300 ' from nearest signal? $\qquad$
Start
Finish

| Interval 1 |
| :---: |
| Interval 2 |
| Interval 3 |
| Interval 4 |
| Interval 5 |
| Interval 6 |

Student Volume Vehicular Gaps Across Major Street Across Major Street Interval 1
Interval 2
Interval 3
Interval 4
Interval 5
Interval 5
Interval 6

Warrant 5, Met: $\qquad$
$\qquad$

Intersection Name: Rocker and EB Off
Major Street Name:
Minor Street Name:
*The Coordinated Signal System signal warrant should not be applied
where the resultant spacing of traffic control signals would be less than 1000'.

Condition A:
On a one-way street or a street that has traffic predominantly in one direction, the adjacent traffic control signals
are so far apart that they do not provide the necessary degree of vehicular platooning.
Warrant 6, Condition A met: $\quad \bar{\square}$

## Condition B:

On a two-way street, adjacent traffic control signals do not provide the necessary degree of platooning and the proposed and adjacent traffic control signals will collectively provide a progressive operation.

```
Warrant 6, Condition B met:| F
```

Warrant 6, Met: N/A

Intersection Name: Rocker and EB Off
Major Street Name:
Minor Street Name:
EB Off
*Major street speed exceeds 40 mph or isolated
community with a population less than 10,000 ? $\qquad$
Condition A:
Adequate trial of alternatives with satisfactory observance and enforcement has failed
to reduce the crash frequency

$$
\text { Warrant 7, Condition A met: } \text { № } \quad \text { | }
$$

Condition B:
Five or more reported crashes, of types susceptible to correction by a traffic control signal,
have occurred within a 12-month period, each crash involving personal injury or property
damage apparently exceeding the applicable requirements for a reportable crash
Number of Correctable Crashes: 1
Warrant 7, Condition B met:
Condition C:
For each of any 8 hours of an average day, the vehicles per hour ( vph ) given in both of the
$80 \%$ columns of Condition A in Table 4C-1, or the vph in both of the $80 \%$ columns of Condition B
in Table 4C-1 exists on the major-street and the higher-volume minor-street approach, respectively,
to the intersection, or the volume of pedestrian traffic is not less than $80 \%$ of the requirements
specified in the Pedestrian Volume warrant.
80\% conditions Condition A in Table 4C-1 met: 80\% conditions Condition B in Table 4C-1 met $80 \%$ conditions Condition B in Table 4C-1 met:
$\qquad$ N
$\qquad$

|  | 80\% Condition A in Table 4C-1 | 80\% Condition B in Table 4C-1 | 80\% Pedestrian Volumes |
| :---: | :---: | :---: | :---: |
| 12:00 AM |  |  |  |
| 1:00 AM |  |  |  |
| 2:00 AM |  |  |  |
| 3:00 AM |  |  |  |
| 4:00 AM |  |  |  |
| 5:00 AM |  |  |  |
| 6:00 AM |  |  |  |
| 7:00 AM |  |  |  |
| 8:00 AM |  |  |  |
| 9:00 AM |  |  |  |
| 10:00 AM |  |  |  |
| 11:00 AM |  |  |  |
| 12:00 PM |  |  |  |
| 1:00 PM |  |  |  |
| 2:00 PM |  |  |  |
| 3:00 PM |  |  |  |
| 4:00 PM |  |  |  |
| 5:00 PM |  |  |  |
| 6:00 PM |  |  |  |
| 7:00 PM |  |  |  |
| 8:00 PM |  |  |  |
| 9:00 PM |  |  |  |
| 10:00 PM |  |  |  |
| 11:00 PM |  |  |  |
|  | 0 | 0 | 0 |

Warrant 7, Met: $\qquad$

Intersection Name: Rocker and EB Off
Major Street Name: Rocker
Minor Street Name: EB Off

* This warrant shall only be considered if the location is an intersection of two or more major routes.

A major route as used in this signal warrant shall have one or more of the following characteristics:

1. It is part of the street or highway system that serves as the principal roadway network for through traffic flow; or
2. It includes rural or suburban highways outside, entering, or traversing a city; or
3. It appears as a major route on an official plan, such as a major street plan in an urban area traffic and transportation study.

Does the study intersection consist of two or more major routes? ${ }^{\text {No }} \quad-$

## Condition A

The intersection has a total existing, or immediately projected, entering volume of at least 1,000 vehicles per hour during the peak hour of a typical weekday and has 5 -year projected traffic volumes, based on an engineering study, that meet one or more of warrants 1,2 , and 3 during an average weekday; or

$$
\begin{aligned}
& \text { At least 1,000 vehicles entering the intersection: } \quad \text { N/A } \\
& \qquad \text { Warrant 8, Condition A met: } \frac{\mathrm{N} / \mathrm{A}}{}
\end{aligned}
$$

Condition B
The intersection has a total existing, or immediately projected, entering volume of at least 1,000 vehicles per hour for each of any 5 hours of a nonnormal business day (Saturday or Sunday).

Warrant 8, Condition B met: $\qquad$

Warrant 8, met: $\qquad$


| Condition A - Minimum Vehicular Volume |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| No. of Lanes |  | VPH total on major street |  |  |  | VPH on higher vol minor street |  |  |  |
| Major | Minor | 100\% ${ }^{\text {a }}$ | 80\% ${ }^{\text {b }}$ | $70 \%^{\text {c }}$ | $56 \%{ }^{\text {d }}$ | 100\% ${ }^{\text {a }}$ | $80 \%{ }^{\text {b }}$ | $70 \%^{\text {c }}$ | $56 \%{ }^{\text {d }}$ |
| 1 | 1 | 500 | 400 | 350 | 280 | 150 | 120 | 105 | 84 |
| 2 | 1 | 600 | 480 | 420 | 336 | 150 | 120 | 105 | 84 |
| 2 | 2 | 600 | 480 | 420 | 336 | 200 | 160 | 140 | 112 |
| 1 | 2 | 500 | 400 | 350 | 280 | 200 | 160 | 140 | 112 |


| Condition B - Interupption of Continuous Traffic |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| No. of Lanes |  | VPH total on major street |  |  |  | VPH on higher vol minor street |  |  |  |
| Major | Minor | 100\% ${ }^{\text {a }}$ | 80\% ${ }^{\text {b }}$ | $70 \%{ }^{\text {c }}$ | $56 \%{ }^{\text {d }}$ | 100\% ${ }^{\text {a }}$ | $80 \%{ }^{\text {b }}$ | $70 \%{ }^{\text {c }}$ | $56 \%{ }^{\text {d }}$ |
| 1 | 1 | 750 | 600 | 525 | 420 | 75 | 60 | 53 | 42 |
| 2 | 1 | 900 | 720 | 630 | 504 | 75 | 60 | 53 | 42 |
| 2 | 2 | 900 | 720 | 630 | 504 | 100 | 80 | 70 | 56 |
| 1 | 2 | 750 | 600 | 525 | 420 | 100 | 80 | 70 | 56 |

${ }^{\text {a }}$ Basic minimum hourly volume.
${ }^{\mathrm{b}}$ Used for combination of Conditions A and B after adequate trial of other remedial measures.
May be used when the major-street speed exceeds 40 mph or in an Isolated community
with a population of less than 10,000 .
May be used for combination of Conditions A and B after adequate trial of other remedial measures when the major-
street speed exceeds $70 \mathrm{~km} / \mathrm{h}$ or exceeds 40 mpn in an isolated community with a population less than 10,000

|  | Traffic Volume |  |  |  | Total Major | Higher Minor |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Major Street 1 | Major Street 2 | Minor Street 1 | Minor Street 2 | Street Vol | Street Vol |
| 12:00 AM | 31 | 35 | 0 | 13 | 66 | 13 |
| 1:00 AM | 17 | 18 | 0 | 7 | 35 | 7 |
| 2:00 AM | 18 | 18 | 0 | 6 | 36 | 6 |
| 3:00 AM | 14 | 13 | 0 | 7 | 27 | 7 |
| 4:00 AM | 24 | 16 | 0 | 7 | 40 | 7 |
| 5:00 AM | 46 | 44 | 0 | 12 | 90 | 12 |
| 6:00 AM | 62 | 62 | 0 | 29 | 124 | 29 |
| 7:00 AM | 83 | 105 | 0 | 56 | 188 | 56 |
| 8:00 AM | 106 | 147 | 0 | 62 | 253 | 62 |
| 9:00 AM | 101 | 142 | 0 | 54 | 243 | 54 |
| 10:00 AM | 128 | 155 | 0 | 54 | 283 | 54 |
| 11:00 AM | 101 | 148 | 0 | 54 | 249 | 54 |
| 12:00 PM | 115 | 159 | 0 | 38 | 274 | 38 |
| 1:00 PM | 115 | 167 | 0 | 39 | 282 | 39 |
| 2:00 PM | 107 | 159 | 0 | 51 | 266 | 51 |
| 3:00 PM | 120 | 178 | 0 | 58 | 298 | 58 |
| 4:00 PM | 112 | 186 | 0 | 61 | 298 | 61 |
| 5:00 PM | 125 | 160 | 0 | 61 | 285 | 61 |
| 6:00 PM | 109 | 119 | 0 | 75 | 228 | 75 |
| 7:00 PM | 92 | 106 | 0 | 46 | 198 | 46 |
| 8:00 PM | 89 | 91 | 0 | 32 | 180 | 32 |
| 9:00 PM | 80 | 79 | 0 | 33 | 159 | 33 |
| 10:00 PM | 59 | 66 | 0 | 22 | 125 | 22 |
| 11:00 PM | 49 | 51 | 0 | 16 | 100 | 16 |



[^10]
# Warrant 2, Four-Hour Vehicluar Volume 

Intersection Name: Eastbound Off
Major Street Name: S-276_No. of Lanes: 2 or more
Minor Street Name: Eastbound Off No. of Lanes:
*Major street speed exceeds $\mathbf{4 0 ~ m p h}$ or isolated
community with a population less than 10,000 ? $\qquad$
$\qquad$

|  | Traffic Volume |  |  |  | Total Major | Higher Minor | 100\% | 70\% |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Major Street 1 | Major Street 2 | Minor Street 1 | Minor Street 2 | Street Vol | Street Vol | Met | Met |
| 12:00 AM | 31 | 35 | 0 | 13 | 66 | 13 |  |  |
| 1:00 AM | 17 | 18 | 0 | 7 | 35 | 7 |  |  |
| 2:00 AM | 18 | 18 | 0 | 6 | 36 | 6 |  |  |
| 3:00 AM | 14 | 13 | 0 | 7 | 27 | 7 |  |  |
| 4:00 AM | 24 | 16 | 0 | 7 | 40 | 7 |  |  |
| 5:00 AM | 46 | 44 | 0 | 12 | 90 | 12 |  |  |
| 6:00 AM | 62 | 62 | 0 | 29 | 124 | 29 |  |  |
| 7:00 AM | 83 | 105 | 0 | 56 | 188 | 56 |  |  |
| 8:00 AM | 106 | 147 | 0 | 62 | 253 | 62 |  |  |
| 9:00 AM | 101 | 142 | 0 | 54 | 243 | 54 |  |  |
| 10:00 AM | 128 | 155 | 0 | 54 | 283 | 54 |  |  |
| 11:00 AM | 101 | 148 | 0 | 54 | 249 | 54 |  |  |
| 12:00 PM | 115 | 159 | 0 | 38 | 274 | 38 |  |  |
| 1:00 PM | 115 | 167 | 0 | 39 | 282 | 39 |  |  |
| 2:00 PM | 107 | 159 | 0 | 51 | 266 | 51 |  |  |
| 3:00 PM | 120 | 178 | 0 | 58 | 298 | 58 |  |  |
| 4:00 PM | 112 | 186 | 0 | 61 | 298 | 61 |  |  |
| 5:00 PM | 125 | 160 | 0 | 61 | 285 | 61 |  |  |
| 6:00 PM | 109 | 119 | 0 | 75 | 228 | 75 |  |  |
| 7:00 PM | 92 | 106 | 0 | 46 | 198 | 46 |  |  |
| 8:00 PM | 89 | 91 | 0 | 32 | 180 | 32 |  |  |
| 9:00 PM | 80 | 79 | 0 | 33 | 159 | 33 |  |  |
| 10:00 PM | 59 | 66 | 0 | 22 | 125 | 22 |  |  |
| 11:00 PM | 49 | 51 | 0 | 16 | 100 | 16 |  |  |


$\qquad$
70\%

Warrant 2, Met: $\qquad$

| Intersection Name: | Eastbound Off |
| ---: | :--- |
| Major Street Name: |  |
| Minor Street Name | E-276 |
| nber of Approaches: | $\quad$ |
| Interval: |  |






Intersection Name: Eastbound Off
$\begin{array}{ll}\text { Major Street Name: } \\ \text { Minor Street Name: } & \overline{\mathrm{S}-276} \\ \text { Eastbound Off }\end{array}$
Location less than 300' from nearest signal? No

|  |  | Sinish |
| :--- | :---: | :---: |
| Interval 1 | - |  |
| Interval 2 | - |  |
| Interval 3 | - |  |
| Interval 4 | - |  |
| Interval 5 |  |  |
| Interval 6 |  |  |
| Student Volume | Vehicular Gaps |  |
| Across Major Street | Across Major Street |  |
| Interval 1 |  |  |
| Interval 2 |  |  |
| Interval 3 |  |  |
| Interval 4 |  |  |
| Interval 5 |  |  |
| Interval 6 |  |  |

Warrant 5, Met: $\qquad$
$\qquad$

Intersection Name: Eastbound Off
Major Street Name: S-276
Minor Street Name: Eastbound Off
*The Coordinated Signal System signal warrant should not be applied
where the resultant spacing of traffic control signals would be less than 1000'.

Condition A:
On a one-way street or a street that has traffic predominantly in one direction, the adjacent traffic control signals
are so far apart that they do not provide the necessary degree of vehicular platooning.
Warrant 6, Condition A met: $\quad \bar{\square}$

## Condition B:

On a two-way street, adjacent traffic control signals do not provide the necessary degree of platooning and the proposed and adjacent traffic control signals will collectively provide a progressive operation.

```
Warrant 6, Condition B met:| F
```

Warrant 6, Met: N/A

Intersection Name: Eastbound Off
Major Street Name: S-276
Minor Street Name: Eastbound Off
*Major street speed exceeds 40 mph or isolated
community with a population less than 10,000 ? $\qquad$
Condition A:
Adequate trial of alternatives with satisfactory observance and enforcement has failed
to reduce the crash frequency
Warrant 7, Condition A met: $N$ No $\quad \nabla$
Condition B:
Five or more reported crashes, of types susceptible to correction by a traffic control signal,
have occurred within a 12-month period, each crash involving personal injury or property
damage apparently exceeding the applicable requirements for a reportable crash
Number of Correctable Crashes:
Warrant 7, Condition B met: $\qquad$
Condition C:
For each of any 8 hours of an average day, the vehicles per hour ( vph ) given in both of the
$80 \%$ columns of Condition A in Table 4C-1, or the vph in both of the $80 \%$ columns of Condition B
in Table 4C-1 exists on the major-street and the higher-volume minor-street approach, respectively,
to the intersection, or the volume of pedestrian traffic is not less than $80 \%$ of the requirements
specified in the Pedestrian Volume warrant.
80\% conditions Condition A in Table 4C-1 met: 80\% conditions Condition B in Table 4C-1 met
80\% of Pedestrian Volume Warrant Volumes met: $\qquad$
$0 \%$ of Pedestrian Volume Warrant Volumes met: N/A

|  | 80\% Condition A in Table 4C-1 | 80\% Condition B in Table 4C-1 | 80\% Pedestrian Volumes |
| :---: | :---: | :---: | :---: |
| 12:00 AM |  |  |  |
| 1:00 AM |  |  |  |
| 2:00 AM |  |  |  |
| 3:00 AM |  |  |  |
| 4:00 AM |  |  |  |
| 5:00 AM |  |  |  |
| 6:00 AM |  |  |  |
| 7:00 AM |  |  |  |
| 8:00 AM |  |  |  |
| 9:00 AM |  |  |  |
| 10:00 AM |  |  |  |
| 11:00 AM |  |  |  |
| 12:00 PM |  |  |  |
| 1:00 PM |  |  |  |
| 2:00 PM |  |  |  |
| 3:00 PM |  |  |  |
| 4:00 PM |  |  |  |
| 5:00 PM |  |  |  |
| 6:00 PM |  |  |  |
| 7:00 PM |  |  |  |
| 8:00 PM |  |  |  |
| 9:00 PM |  |  |  |
| 10:00 PM |  |  |  |
| 11:00 PM |  |  |  |
|  | 0 | 0 | 0 |

Warrant 7, Met: $\qquad$

Intersection Name: Eastbound Off
Major Street Name: S-276
Minor Street Name: Eastbound Off

* This warrant shall only be considered if the location is an intersection of two or more major routes.

A major route as used in this signal warrant shall have one or more of the following characteristics:

1. It is part of the street or highway system that serves as the principal roadway network for through traffic flow; or
2. It includes rural or suburban highways outside, entering, or traversing a city; or
3. It appears as a major route on an official plan, such as a major street plan in an urban area traffic and transportation study.

Does the study intersection consist of two or more major routes? ${ }^{\text {No }} \quad-$

## Condition A

The intersection has a total existing, or immediately projected, entering volume of at least 1,000 vehicles per hour during the peak hour of a typical weekday and has 5 -year projected traffic volumes, based on an engineering study, that meet one or more of warrants 1,2 , and 3 during an average weekday; or

$$
\begin{aligned}
& \text { At least 1,000 vehicles entering the intersection: } \quad \text { N/A } \\
& \qquad \text { Warrant 8, Condition A met: } \frac{\mathrm{N} / \mathrm{A}}{}
\end{aligned}
$$

Condition B
The intersection has a total existing, or immediately projected, entering volume of at least 1,000 vehicles per hour for each of any 5 hours of a nonnormal business day (Saturday or Sunday).

Warrant 8, Condition B met: $\qquad$

Warrant 8, met: $\qquad$


[^0]:    $\begin{aligned} \text { Warrant 1, Condition A Met: } & \text { No } \\ \text { Warrant 1, Condition B Met: } & \text { No } \\ \quad \text { Consider combination? } & \text { Yes } \\ \text { Warrant 1, Combination Met: } & \text { No }\end{aligned}$ $\qquad$

[^1]:    $\begin{aligned} \text { Warrant 1, Condition A Met: } & \text { No } \\ \text { Warrant 1, Condition B Met: } & \text { No } \\ \quad \text { Consider combination? } & \text { Yes } \\ \text { Warrant 1, Combination Met: } & \text { No }\end{aligned}$ $\qquad$ 70\%: $\frac{\mathrm{N} / \mathrm{A}}{\mathrm{N} / \mathrm{A}}$
    $\qquad$

    Warrant 1, Met: No

[^2]:    | Warrant 1, Condition A Met: | No |
    | ---: | :--- |
    | Warrant 1, Condition B Met: | No |
    | $\quad$ Consider combination? | Yes |
    | Warrant 1, Combination Met: | No | $\qquad$ 70\%: $\frac{\mathrm{N} / \mathrm{A}}{\mathrm{N} / \mathrm{A}}$

    $\qquad$

    Warrant 1, Met: No

[^3]:    $\begin{aligned} \text { Warrant 1, Condition A Met: } & \text { No } \\ \text { Warrant 1, Condition B Met: } & \text { No } \\ \text { Consider combination? } & \text { Yes } \\ \text { Warrant 1, Combination Met: } & \text { No }\end{aligned}$ $\qquad$

[^4]:    | Warrant 1, Condition A Met: | No |
    | ---: | :--- |
    | Warrant 1, Condition B Met: | No |
    | $\quad$ Consider combination? | Yes | $\qquad$ 70\%: $\frac{\mathrm{N} / \mathrm{A}}{\mathrm{N} / \mathrm{A}}$ 56\% No

    $\qquad$

    Warrant 1, Met: __ No

[^5]:    | Warrant 1, Condition A Met: | No |
    | ---: | :--- |
    | Warrant 1, Condition B Met: | No |
    | $\quad$ Consider combination? | Yes | $\qquad$ 70\%: $\frac{\mathrm{N} / \mathrm{A}}{\mathrm{70} / \mathrm{A}}$ 56\% No

    Warrant 1, Met: _ No

[^6]:    | Warrant 1, Condition A Met: | No |
    | ---: | :--- |
    | Warrant 1, Condition B Met: | No |
    | $\quad$ Consider combination? | Yes |
    | Warrant 1, Combination Met: | No | $\qquad$ 70\%: $\frac{\mathrm{N} / \mathrm{A}}{\mathrm{N} / \mathrm{A}}$

    $\qquad$

    Warrant 1, Met: No

[^7]:    $\begin{array}{ll}\text { Warrant 1, Condition A Met: } & \text { Yes } \\ \text { Warrant 1, Condition B Met: } & \text { Yes }\end{array}$ - 70\%: | N/A |
    | :--- |
    | - $\quad \mathrm{N} / \mathrm{A}$ |

    Consider combination? See Note 1 Warrant 1, Combination Met: N/A 56\% N/A Note 1: Not considered because either Condition A or B is already met. Warrant 1, Met: Yes

[^8]:    Warrant 1, Condition A Met: $\quad$ No
    Warrant 1, Condition B Met: Yes
    $\qquad$ 70\%: $\frac{\mathrm{N} / \mathrm{A}}{\mathrm{N} / \mathrm{A}}$
    $\qquad$
    Note 1: Not considered because either Condition A or B is already met. Narrant 1, Combination Met: N/A $\qquad$

    Warrant 1, Met: Yes

[^9]:    $\begin{aligned} \text { Warrant 1, Condition A Met: } & \text { No } \\ \text { Warrant 1, Condition B Met: } & \text { No } \\ \quad \text { Consider combination? } & \text { Yes } \\ \text { Warrant 1, Combination Met: } & \text { No }\end{aligned}$ $\qquad$ 70\%: $\frac{\mathrm{N} / \mathrm{A}}{\mathrm{N} / \mathrm{A}}$
    $\qquad$

    Warrant 1, Met: No

[^10]:    $\begin{aligned} \text { Warrant 1, Condition A Met: } & \text { No } \\ \text { Warrant 1, Condition B Met: } & \text { No } \\ \quad \text { Consider combination? } & \text { Yes } \\ \text { Warrant 1, Combination Met: } & \text { No }\end{aligned}$ $\qquad$ 70\%: $\frac{\mathrm{N} / \mathrm{A}}{\mathrm{N} / \mathrm{A}}$
    $\qquad$

    Warrant 1, Met: No

