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| USH 12/14: GAMMON RD TO VERONA RD (DANE) CONTINUOUS (24 HOUR) CLOSURE NO DIVERSION ROUTE (MAX QUEUE METHOD) | OCTOBER |
| | Analyzed for 2009 Construction Season |

SUMMARY OF TRAFFIC MODEL OUTPUT

SUNDAY WESTBOUND DIRECTION

| TIME OF DAY | FLOWS AND CAPACITY IN VEH/HR | | | | | | AVERAGE SPEEDS IN MPH | | | | |
|-------------|------------------------------|-----------|----------------|------------|-------------|-----------------------|-----------------------|-------------------|----------------|------|--|
| | MAIN ROUTE | | SITE CAPA CITY | FLOW | | AV.DEL PER VEH (MINS) | AVERAGE QUEUE (VEH) | MAIN ROUTE | | SITE | |
| | DEMAND FLOW | PCT HEAVY | | MAIN ROUTE | 'DIVER TED' | | | WITHOUT WORK ZONE | WITH WORK ZONE | | |
| MID-1 AM | 628 | 0.0 | 1500 | 628 | 0 | 0.41 | 0 | 60.2 | 52.6 | 43.0 | |
| 1-2 AM | 437 | 0.0 | 1500 | 437 | 0 | 0.38 | 0 | 60.2 | 53.0 | 43.7 | |
| 2-3 AM | 281 | 0.0 | 1500 | 281 | 0 | 0.36 | 0 | 60.2 | 53.3 | 44.3 | |
| 3-4 AM | 247 | 0.0 | 1500 | 247 | 0 | 0.36 | 0 | 60.2 | 53.3 | 44.5 | |
| 4-5 AM | 153 | 0.0 | 1500 | 153 | 0 | 0.35 | 0 | 60.2 | 53.6 | 44.9 | |
| 5-6 AM | 107 | 0.0 | 1500 | 107 | 0 | 0.34 | 0 | 60.2 | 53.7 | 45.1 | |
| 6-7 AM | 149 | 0.0 | 1500 | 149 | 0 | 0.35 | 0 | 60.2 | 53.6 | 44.9 | |
| 7-8 AM | 264 | 0.0 | 1500 | 264 | 0 | 0.36 | 0 | 60.2 | 53.3 | 44.4 | |
| 8-9 AM | 520 | 0.0 | 1500 | 520 | 0 | 0.39 | 0 | 60.2 | 52.8 | 43.4 | |
| 9-10 AM | 858 | 0.0 | 1500 | 858 | 0 | 0.43 | 0 | 60.2 | 52.1 | 42.2 | |
| 10-11 AM | 1148 | 0.0 | 1499 | 1148 | 0 | 0.55 | 0 | 60.2 | 50.4 | 39.2 | |
| 11AM-NOON | 1660 | 0.0 | 1499 | 1660 | 0 | 2.59 | 54 | 60.2 | 31.2 | 30.8 | |
| NOON-1PM | 1959 | 0.0 | 1500 | 1696 | 263 | 12.81+ | 334 | 60.2 | 11.4 | 30.8 | |
| 1-2 PM | 2240 | 0.0 | 1500 | 1507 | 733 | 16.26+ | 414 | 60.2 | 9.9 | 30.8 | |
| 2-3 PM | 2185 | 0.0 | 1500 | 1504 | 681 | 16.24+ | 413 | 60.2 | 9.9 | 30.8 | |
| 3-4 PM | 2089 | 0.0 | 1500 | 1504 | 585 | 16.24+ | 413 | 60.2 | 9.9 | 30.8 | |
| 4-5 PM | 2158 | 0.0 | 1500 | 1504 | 654 | 16.24+ | 413 | 60.2 | 9.9 | 30.8 | |
| 5-6 PM | 2060 | 0.0 | 1500 | 1503 | 557 | 16.24+ | 413 | 60.2 | 9.9 | 30.8 | |
| 6-7 PM | 1766 | 0.0 | 1500 | 1522 | 244 | 16.13+ | 410 | 60.2 | 9.9 | 30.8 | |
| 7-8 PM | 1474 | 0.0 | 1500 | 1448 | 26 | 15.50+ | 394 | 60.2 | 10.1 | 30.8 | |
| 8-9 PM | 996 | 0.0 | 1499 | 996 | 0 | 3.26 | 137 | 60.2 | 27.8 | 37.7 | |
| 9-10 PM | 788 | 0.0 | 1500 | 788 | 0 | 0.43 | 0 | 60.2 | 52.3 | 42.4 | |
| 10-11 PM | 608 | 0.0 | 1500 | 608 | 0 | 0.40 | 0 | 60.2 | 52.6 | 43.1 | |
| 11PM-MID | 416 | 0.0 | 1500 | 416 | 0 | 0.38 | 0 | 60.2 | 53.0 | 43.8 | |

+ INDICATES QUEUEING EXCEEDS USER-SPECIFIED MAXIMUM LIMIT

| *----- SITE BREAKDOWN DELAYS -----* | |
|--|------|
| BREAKDOWN DURATION (MINS) | 0 |
| RANGE OF QUEUE DELAY - MIN (VEH-H) MAX | 0.0 |
| AV BREAKDOWNS PER DAY | 0.00 |
| AV QUEUE DELAY/DAY (VEH-H) | 0.0 |
| AV TOTAL DELAY/DAY (VEH-H) | 0.0 |

| *----- SITE ACCIDENT DELAYS -----* | |
|--|---|
| BREAKDOWN DURATION (MINS) | 0 |
| RANGE OF QUEUE DELAY - MIN (VEH-H) MAX | 0 |
| AV BREAKDOWNS PER DAY | 0 |
| AV QUEUE DELAY/DAY (VEH-H) | 0 |
| AV TOTAL DELAY/DAY (VEH-H) | 0 |

| AVERAGE ACCIDENT NUMBERS (PIA/DAY) | |
|---|----------|
| MAIN ROUTE WITHOUT WORKS | 0.0112 |
| MAIN ROUTE WITH WORKS | 0.0081 |
| 'DIVERSION' | 0.0039 |
| <small>PIA: Personal Injury Accidents</small> | |
| IMPACTS ON ROAD USERS | |
| ROAD USER COSTS PER DAY | \$73,628 |
| CONGESTED HOURS PER DAY* | 8 |

*Delays Exceeding User-Specified Maximum

**USH 12/14: GAMMON RD TO VERONA RD (DANE)
CONTINUOUS (24 HOUR) CLOSURE
NO DIVERSION ROUTE (MAX QUEUE METHOD)**

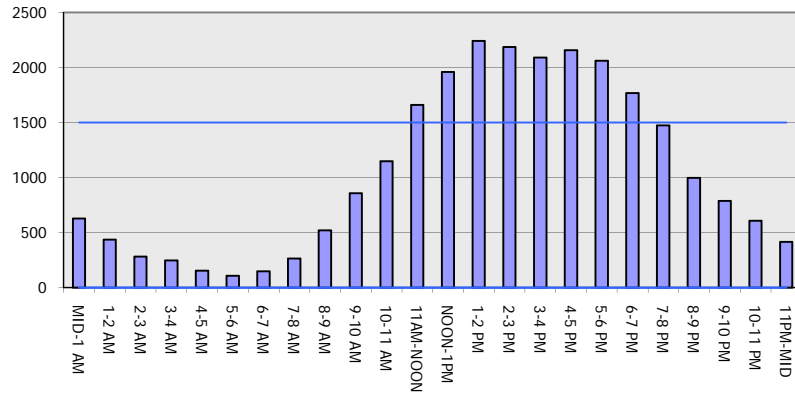
OCTOBER

Analyzed for 2009
Construction Season

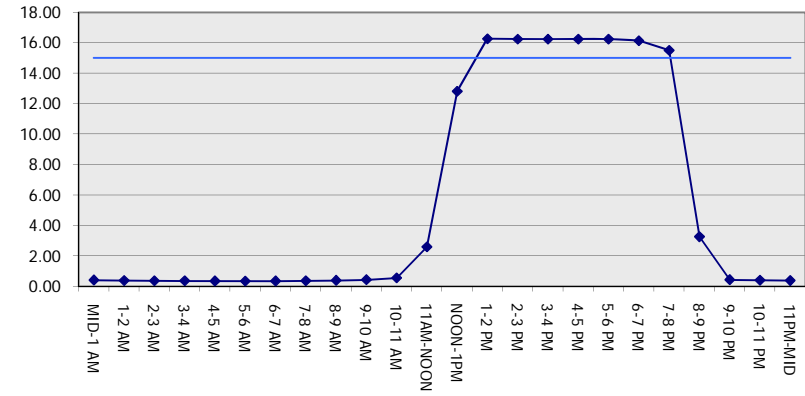
GRAPHICAL REPRESENTATION OF TRAFFIC MODEL INPUT AND OUTPUT

SUNDAY WESTBOUND DIRECTION

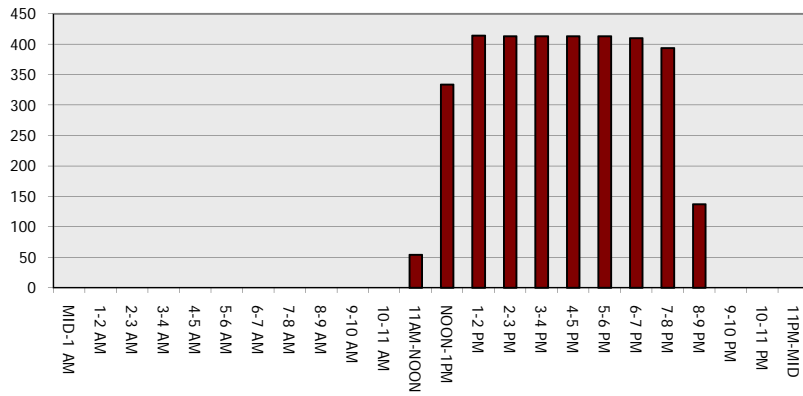
Main Route - Traffic Demand (Vehicles Per Hour)



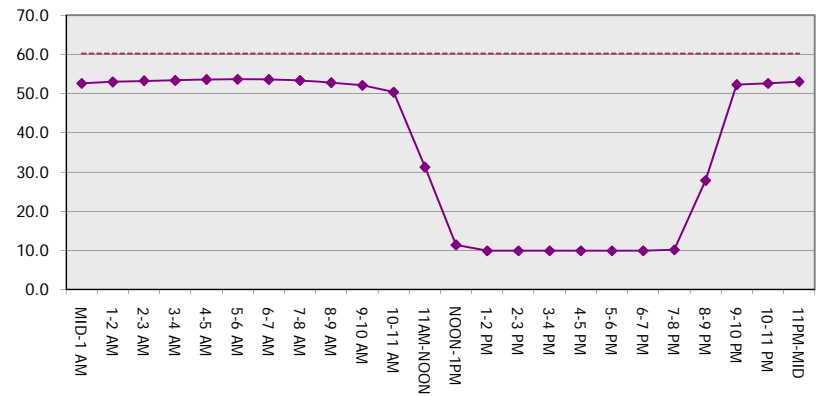
Main Route Average Delay Per Vehicle (Minutes)



Main Route - Average Queue Length (Vehicles)



Main Route - Average Speed (MPH)



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| | Analyzed for 2009 Construction Season |

SUMMARY OF TRAFFIC MODEL OUTPUT

SUNDAY EASTBOUND DIRECTION

| TIME OF DAY | FLOWS AND CAPACITY IN VEH/HR | | | | | | | AVERAGE SPEEDS IN MPH | | |
|-------------|------------------------------|-----------|----------------|------------|-------------|-----------------------|---------------------|-----------------------|----------------|------|
| | MAIN ROUTE | | SITE CAPA CITY | FLOW | | AV.DEL PER VEH (MINS) | AVERAGE QUEUE (VEH) | MAIN ROUTE | | SITE |
| | DEMAND FLOW | PCT HEAVY | | MAIN ROUTE | 'DIVER TED' | | | WITHOUT WORK ZONE | WITH WORK ZONE | |
| MID-1 AM | 689 | 0.0 | 1500 | 689 | 0 | 0.41 | 0 | 60.2 | 52.5 | 42.8 |
| 1-2 AM | 413 | 0.0 | 1500 | 413 | 0 | 0.38 | 0 | 60.2 | 53.0 | 43.8 |
| 2-3 AM | 265 | 0.0 | 1500 | 265 | 0 | 0.36 | 0 | 60.2 | 53.3 | 44.4 |
| 3-4 AM | 323 | 0.0 | 1500 | 323 | 0 | 0.37 | 0 | 60.2 | 53.2 | 44.2 |
| 4-5 AM | 159 | 0.0 | 1500 | 159 | 0 | 0.35 | 0 | 60.2 | 53.5 | 44.8 |
| 5-6 AM | 98 | 0.0 | 1500 | 98 | 0 | 0.34 | 0 | 60.2 | 53.7 | 45.1 |
| 6-7 AM | 125 | 0.0 | 1500 | 125 | 0 | 0.34 | 0 | 60.2 | 53.7 | 45.0 |
| 7-8 AM | 273 | 0.0 | 1500 | 273 | 0 | 0.36 | 0 | 60.2 | 53.3 | 44.4 |
| 8-9 AM | 494 | 0.0 | 1500 | 494 | 0 | 0.39 | 0 | 60.2 | 52.8 | 43.5 |
| 9-10 AM | 809 | 0.0 | 1500 | 809 | 0 | 0.43 | 0 | 60.2 | 52.2 | 42.4 |
| 10-11 AM | 1294 | 0.0 | 1499 | 1294 | 0 | 0.69 | 0 | 60.2 | 48.3 | 36.0 |
| 11AM-NOON | 1718 | 0.0 | 1499 | 1718 | 0 | 3.44 | 83 | 60.2 | 27.0 | 30.8 |
| NOON-1PM | 2108 | 0.0 | 1500 | 1744 | 365 | 14.85+ | 381 | 60.2 | 10.4 | 30.8 |
| 1-2 PM | 2295 | 0.0 | 1499 | 1496 | 799 | 16.25+ | 413 | 60.2 | 9.9 | 30.8 |
| 2-3 PM | 2345 | 0.0 | 1499 | 1496 | 849 | 16.25+ | 414 | 60.2 | 9.9 | 30.8 |
| 3-4 PM | 2369 | 0.0 | 1499 | 1496 | 873 | 16.25+ | 414 | 60.2 | 9.9 | 30.8 |
| 4-5 PM | 2470 | 0.0 | 1499 | 1493 | 977 | 16.28+ | 414 | 60.2 | 9.9 | 30.8 |
| 5-6 PM | 2475 | 0.0 | 1499 | 1495 | 979 | 16.27+ | 414 | 60.2 | 9.9 | 30.8 |
| 6-7 PM | 2085 | 0.0 | 1499 | 1498 | 588 | 16.24+ | 413 | 60.2 | 9.9 | 30.8 |
| 7-8 PM | 1589 | 0.0 | 1499 | 1455 | 134 | 16.04+ | 408 | 60.2 | 9.9 | 30.8 |
| 8-9 PM | 1241 | 0.0 | 1499 | 1241 | 0 | 10.96 | 286 | 60.2 | 12.5 | 31.7 |
| 9-10 PM | 811 | 0.0 | 1500 | 811 | 0 | 0.74 | 14 | 60.2 | 47.6 | 42.3 |
| 10-11 PM | 649 | 0.0 | 1500 | 649 | 0 | 0.41 | 0 | 60.2 | 52.5 | 43.0 |
| 11PM-MID | 418 | 0.0 | 1500 | 418 | 0 | 0.38 | 0 | 60.2 | 53.0 | 43.8 |

+ INDICATES QUEUEING EXCEEDS USER-SPECIFIED MAXIMUM LIMIT

| *----- SITE BREAKDOWN DELAYS -----* | |
|--|------|
| BREAKDOWN DURATION (MINS) | 0 |
| RANGE OF QUEUE DELAY - MIN (VEH-H) MAX | 0.0 |
| AV BREAKDOWNS PER DAY | 0.00 |
| AV QUEUE DELAY/DAY (VEH-H) | 0.0 |
| AV TOTAL DELAY/DAY (VEH-H) | 0.0 |

| *----- SITE ACCIDENT DELAYS -----* | |
|--|---|
| BREAKDOWN DURATION (MINS) | 0 |
| RANGE OF QUEUE DELAY - MIN (VEH-H) MAX | 0 |
| AV BREAKDOWNS PER DAY | 0 |
| AV QUEUE DELAY/DAY (VEH-H) | 0 |
| AV TOTAL DELAY/DAY (VEH-H) | 0 |

| AVERAGE ACCIDENT NUMBERS (PIA/DAY) | |
|------------------------------------|--------|
| MAIN ROUTE WITHOUT WORKS | 0.0123 |
| MAIN ROUTE WITH WORKS | 0.0083 |
| 'DIVERSION' | 0.0057 |

PIA: Personal Injury Accidents

| ECONOMIC IMPACT ON ROAD USERS | |
|-------------------------------|----------|
| ROAD USER COSTS PER DAY | \$86,820 |
| CONGESTED HOURS PER DAY* | 8 |

*Delays Exceeding User-Specified Maximum

**USH 12/14: GAMMON RD TO VERONA RD (DANE)
CONTINUOUS (24 HOUR) CLOSURE
NO DIVERSION ROUTE (MAX QUEUE METHOD)**

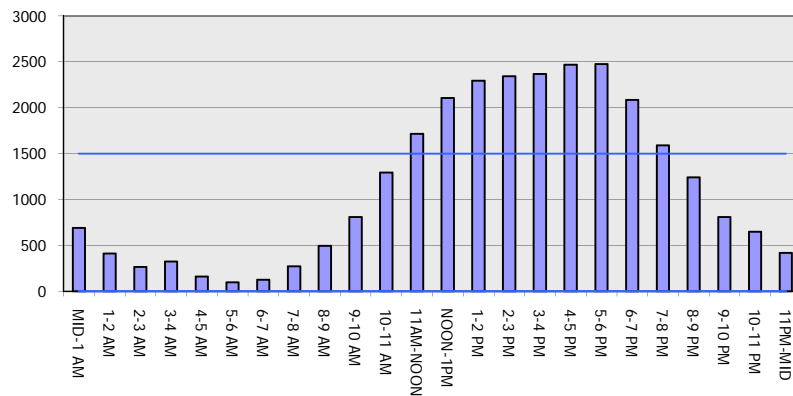
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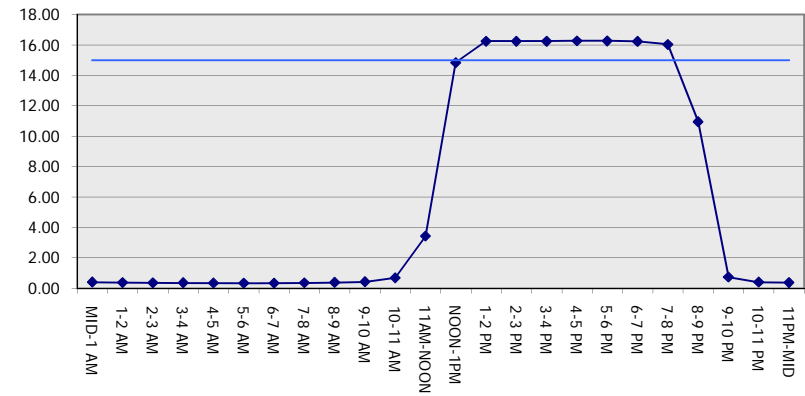
GRAPHICAL REPRESENTATION OF TRAFFIC MODEL INPUT AND OUTPUT

SUNDAY EASTBOUND DIRECTION

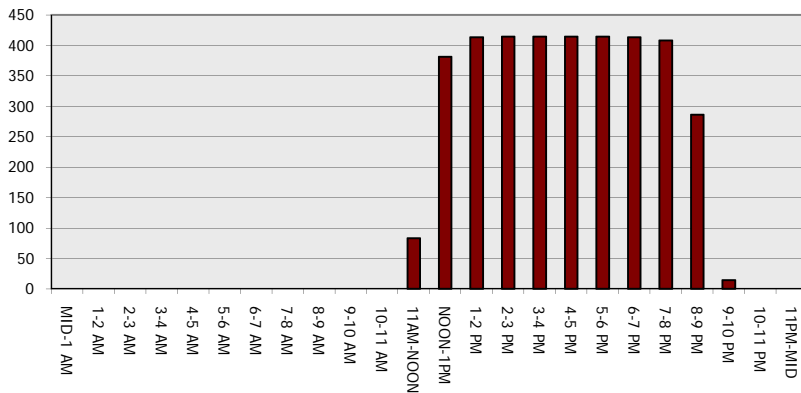
Main Route - Traffic Demand (Vehicles Per Hour)



Main Route Average Delay Per Vehicle (Minutes)



Main Route - Average Queue Length (Vehicles)



Main Route - Average Speed (MPH)

