

Detailed intersection LOS worksheets are included in Appendix C.

SUGGESTED IMPROVEMENTS

The purpose of this feasibility study is to estimate whether the proposed masterplan would result in any significant effect to the community and make the project infeasible or severely constrained. It should also be noted that a CEQA Traffic Analysis would be required for the project upon finalization of the project components to determine the project's long-term impacts, if any, and mitigation measures. As such, improvements suggested in this memorandum are for suggestion purposes only to consider as a part of the project's feasibility evaluation.

The following are the suggested improvements and considerations:

Glen Helen Parkway/Cajon Boulevard

This intersection is currently operating at a deficient LOS in the weekday p.m. peak hour, and the project adds to this existing deficiency, resulting in the intersection operating at a deficient LOS during event peak hours. Based on the County's TIS guidelines, improvements will be required to be implemented to eliminate the deficiency at this intersection.

Currently, the south leg of this intersection is under construction for expansion purposes from two lanes to four lanes. The highest observed delay at this location is for the south leg approaches. With the expansion of the south leg, this intersection would operate satisfactorily during the weekday peak hour conditions. Table K summarizes the LOS at this location with the completed south leg at this location. It should be noted that this intersection is under Caltrans' jurisdiction, and therefore, coordination and involvement with Caltrans will be required for this location.

I-15 Southbound Ramps/Glen Helen Parkway

This intersection is currently operating at a satisfactory LOS in weekday and regular weekend peak hours and is also forecast to operate satisfactorily with the additional traffic. As such, based on the County's TIS guidelines, improvements may not be required at this location. However, because this intersection operates at a deficient LOS during events, neighborhood traffic would also be affected by this deficiency.

Based on the regional circulation pattern, traffic at this approach is estimated to originate from the High Desert and Victor Valley area and be destined for an amphitheater event, compared to the other three ramps providing regional access to the park and the events. Given the location, it is anticipated that the majority of the traffic would be arriving from the San Bernardino Valley area and greater Los Angeles area through the San Bernardino Valley. However, based on observed traffic counts, this intersection has the second highest approach volumes during the event. As such, patrons may be utilizing this approach rather than accessing the I-215 ramps to avoid the stop-controlled delays at the I-215 ramps and Cajon Boulevard. Therefore, for future events, the event management plan may need to address this issue, which may help reduce the deficiency. Additionally, installing a signal may also be considered. However, this intersection is under Caltrans' jurisdiction, and therefore, coordination with Caltrans would be required.

TRAFFIC MANAGEMENT PLAN

A Traffic Management Plan contains operations strategies for managing automobile, bus, rideshares, and other vehicular traffic destined to and from the following areas in the vicinity of a planned special event venue: (1) public parking area, (2) reserved (permit) parking area, (3) overflow

parking area, and (4) pick-up/drop-off area. The Traffic Management Plan for the Glen Helen Amphitheater events were recently revised in 2023. This updated traffic management plan is currently being implemented for smaller or larger events in this venue. The 2023 Traffic Management Plan is included in Appendix D.

As previously discussed, none of park entrance/access intersections or event parking entrances currently operate or are forecast to operate at a deficient LOS. As such, the existing Traffic Management Plan during events for traffic operations may be considered adequate. However, given that two study intersections on either side of the park location are forecast to operate at a deficient LOS during events, a regional Traffic Management Plan is likely to be required. Additionally, the existing traffic management during events needs to be evaluated periodically to determine efficacy.

The following are the recommendations for the Traffic Management Plan that may be implemented or amended to the existing Traffic Management Plan:

- Coordinate with Live Nations to determine the feasibility for general parking area allocations and route direction during ticket purchase. The overflow parking areas may be subdivided into smaller lots, and patrons may be assigned to a designated lot for parking at the time of ticket purchase. The ticket should include directions to specific parking areas and direction to access.
- Provide parking lot identification markers that are visible from a distance to reduce idling.
- Implement lane channelization for ingress and egress movements at the driveways.

Should you have any questions, please do not hesitate to contact me at (949) 553-0666 or at Ken.Wilhelm@lsa.net.

Attachments: A: Figures 1–12

- Figure 1: Regional and Project Location
- Figure 2: Conceptual Land Use Plan
- Figure 3: Study Area Intersections
- Figure 4: Existing Weekday Peak Hour Traffic Volumes
- Figure 5: Existing Weekend Peak Hour Traffic Volumes
- Figure 6: Existing Event Day Peak Hour Traffic Volumes
- Figure 7: Project Trip Distribution
- Figure 8: Project Trip Assignment- Weekday
- Figure 9: Project Trip Assignment- Weekend/Event Day
- Figure 10: Existing Plus Project Weekday Peak Hour Traffic Volumes
- Figure 11: Existing Plus Project Weekend Peak Hour Traffic Volumes
- Figure 12: Existing Plus Project Event Day Peak Hour Traffic Volumes

B: Tables A–K

- Table A: Intersection Level of Service Definitions
- Table B: Level of Service Criteria for Unsignalized and Signalized Intersections
- Table C: Existing Weekday Intersection Levels of Service
- Table D: Existing Weekend Intersection Levels of Service
- Table E: Existing Event Day Intersection Levels of Service
- Table F: Project Trip Generation - Weekday
- Table G: Project Trip Generation - Weekend/Event Day
- Table H: Existing Plus Project Weekday Intersection Levels of Service

Table I: Existing Plus Project Weekend Intersection Levels of Service

Table J: Existing Plus Project Event Day Intersection Levels of Service

Table K - With Improvement Existing Plus Project Weekday Intersection Levels of Service

Appendices: A: Traffic Count Sheets
 B: Volume Development Worksheets
 C: Intersection Level of Service Worksheets
 D: 2023 Traffic Management Plan

ATTACHMENT A

FIGURES



FIGURE 1

LSA

LEGEND

 Project Location



0 1500 3000
FEET

SOURCE: ESRI Streetmap, 2023; Google Earth, 2023.

P:\20231447-Glen Helen Regional Park\Traffic\GIS\PRO\Glen Helen.aprx (3/12/2024)

*Glen Helen Regional Park
Traffic Feasibility Analysis
Regional and Project Location*

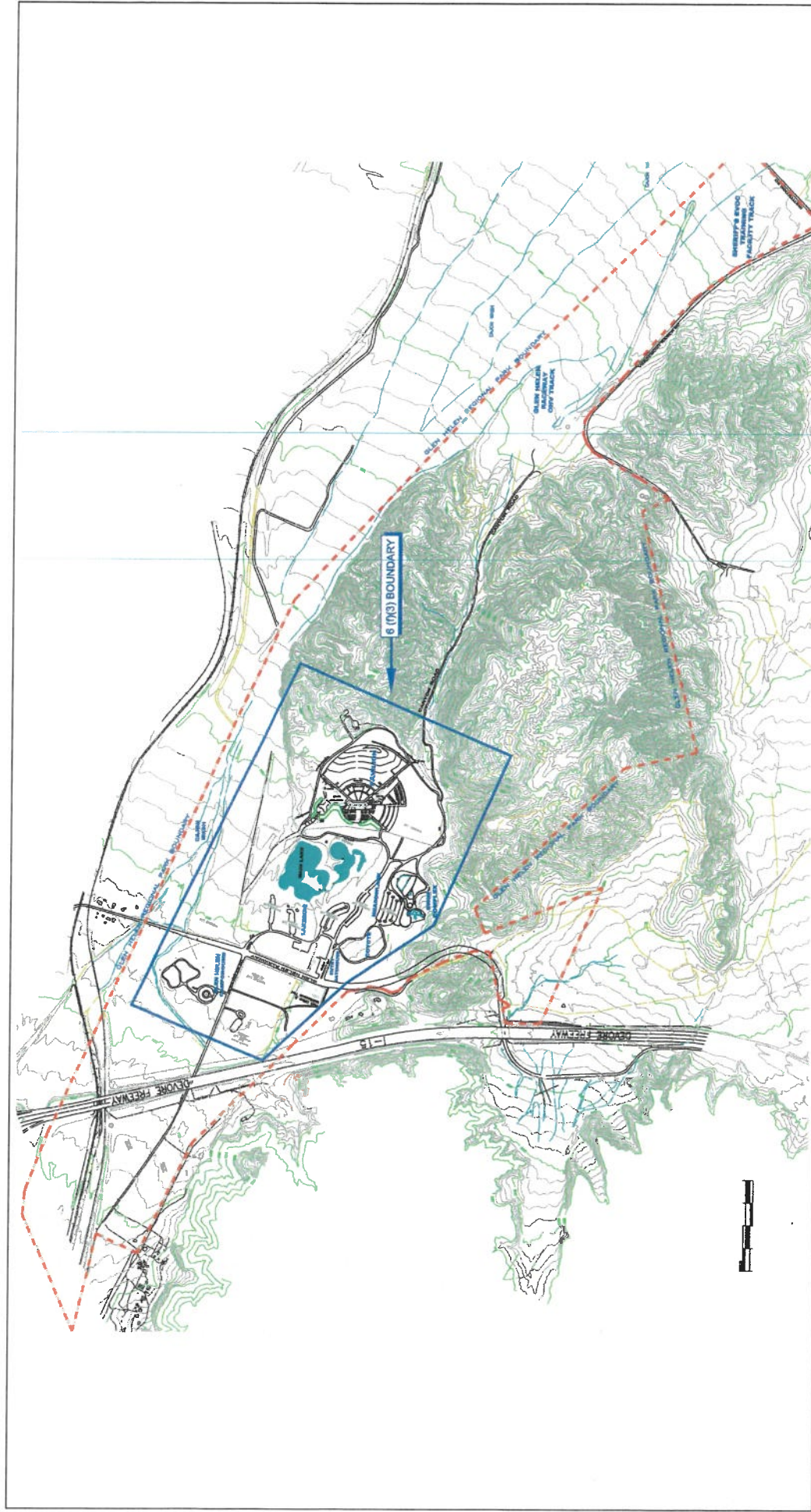
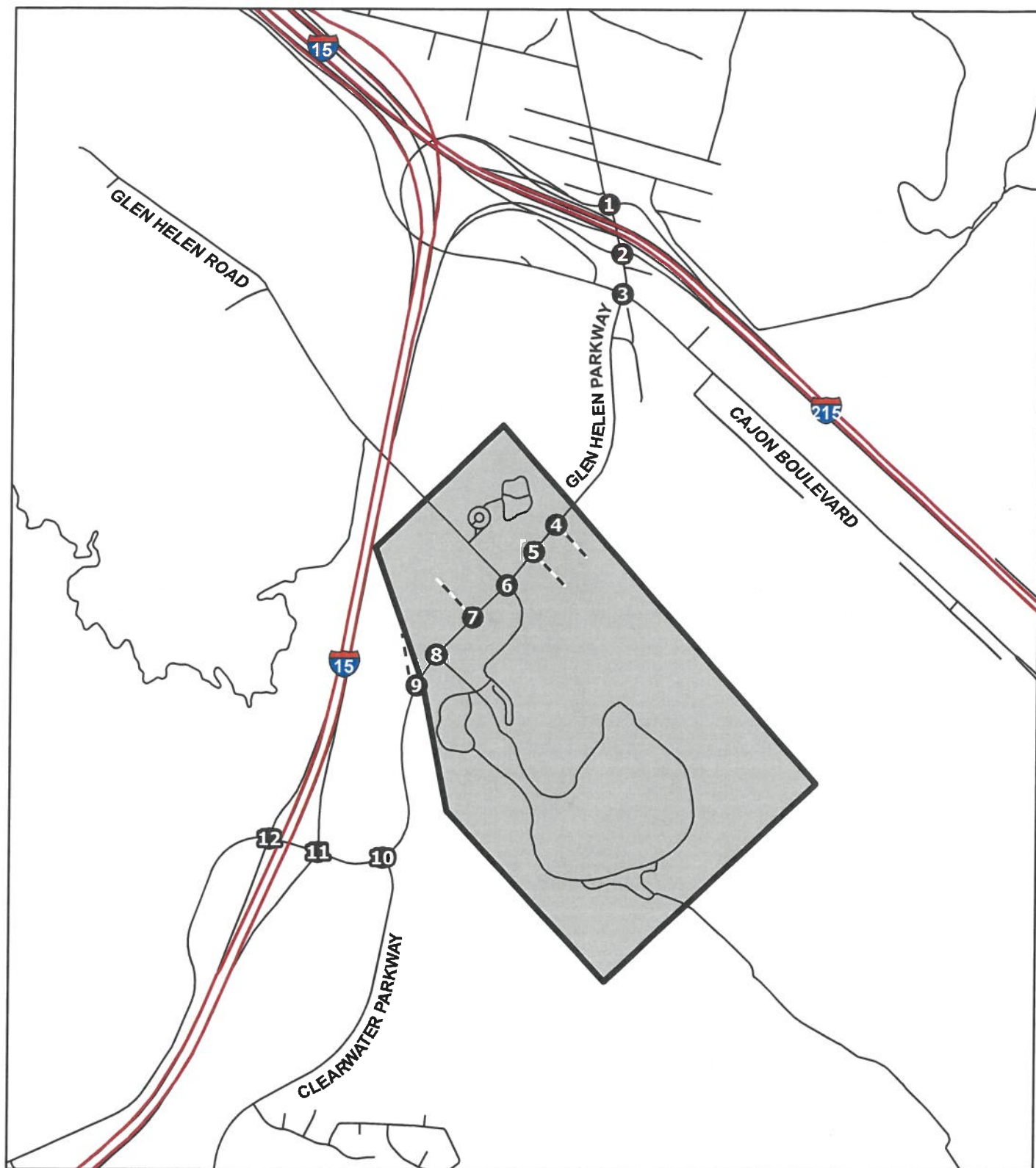


FIGURE 2

Glen Helen Regional Park
Traffic Feasibility Analysis
Conceptual Land Use Plan



LSA

LEGEND

- Project Location
- Study Intersections
- Driveways



0 770 1540
FEET

SOURCE: ESRI Streetmap, 2023.

P:\20231447-Glen Helen Regional Park\Traffic\GIS\PRO\Glen Helen.aprx (3/12/2024)

FIGURE 3

*Glen Helen Regional Park
Traffic Feasibility Analysis
Study Area Intersections*

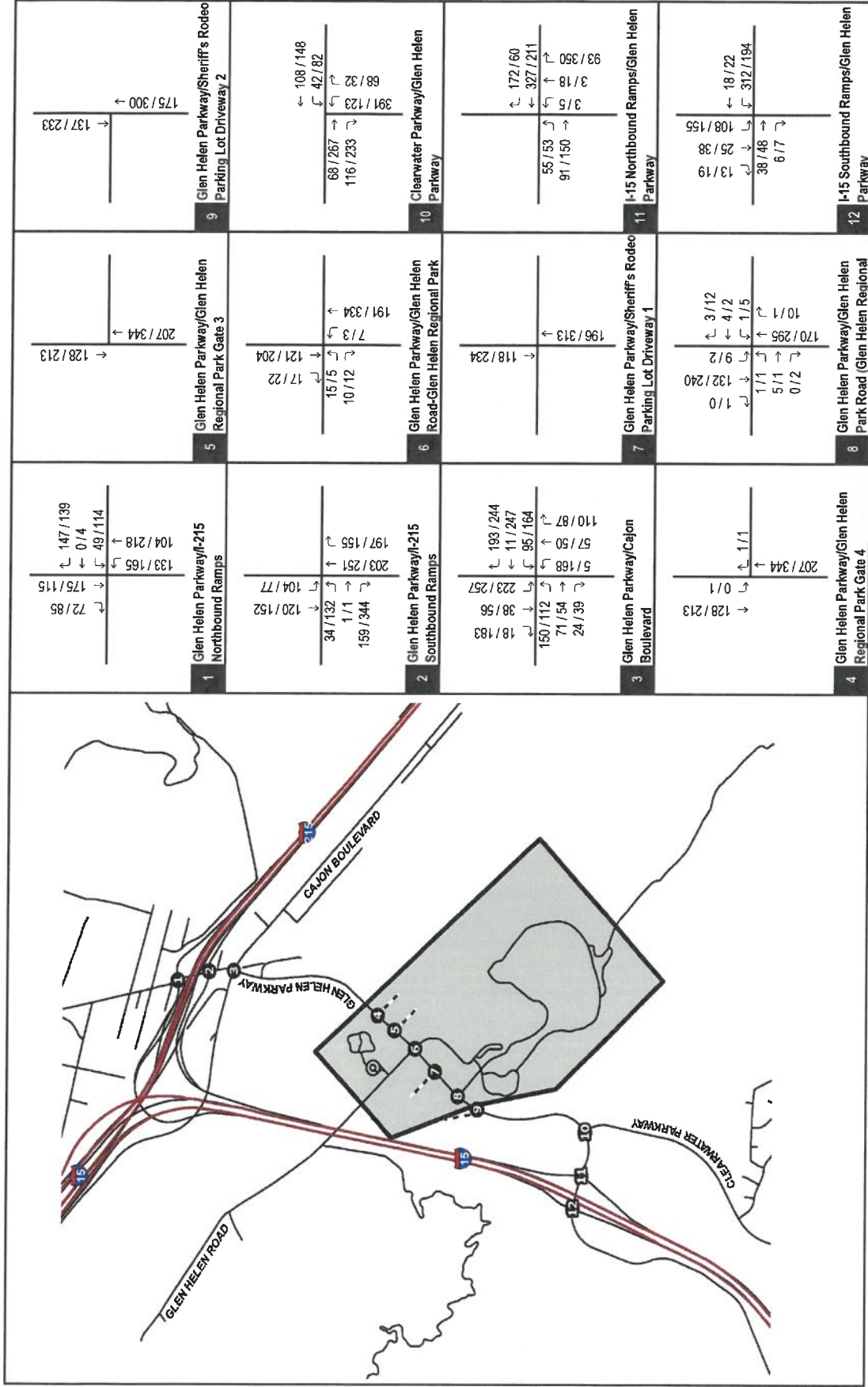


FIGURE 4

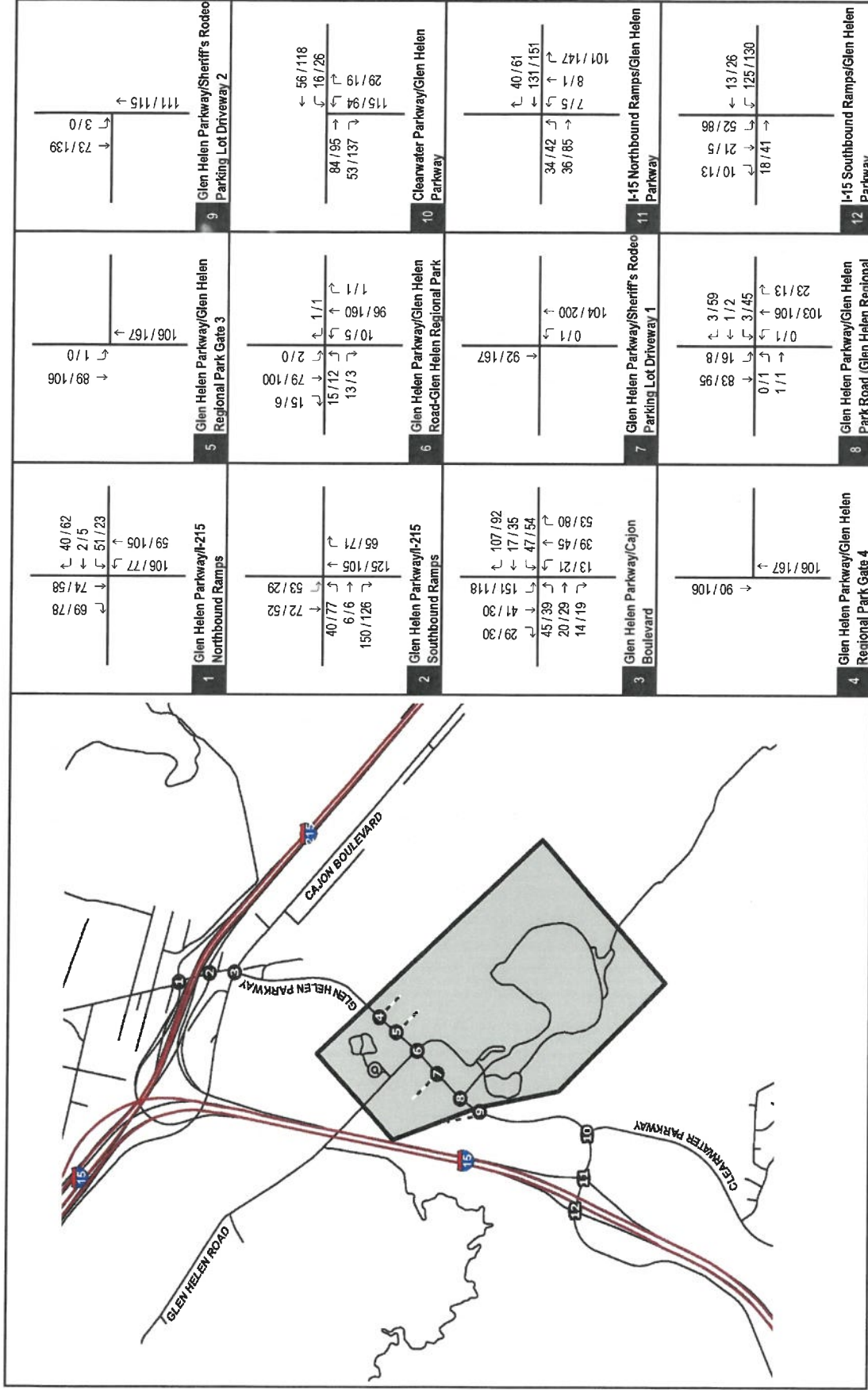
LSA

XXX / YY

AM / PM Peak Hour PCE Traffic Volumes

Glen Helen Regional Park
Traffic Feasibility Analysis

Existing Weekday Peak Hour Traffic Volumes



LSA

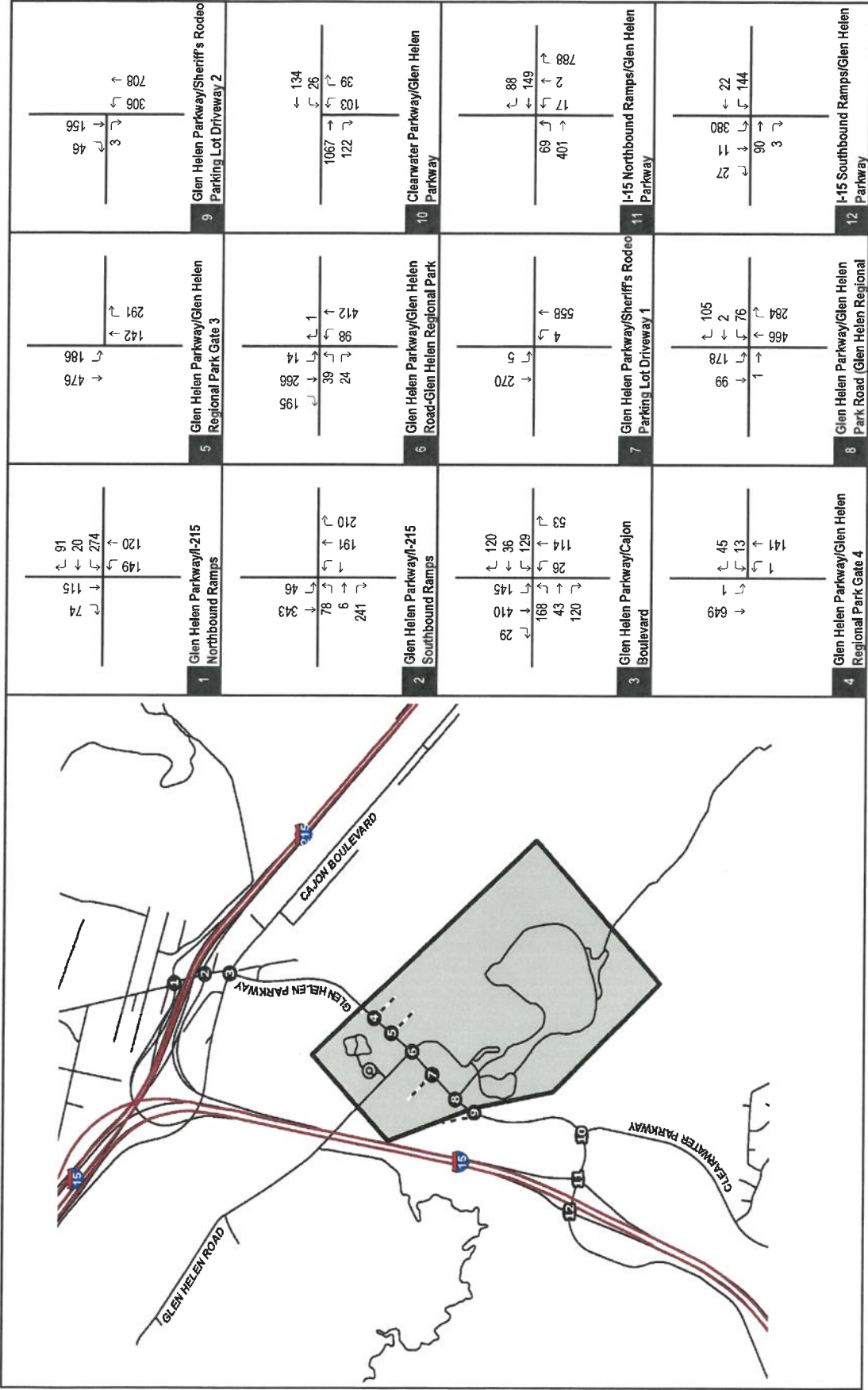
XXX / YYY

AM / PM Peak Hour PCE Traffic Volumes

FIGURE 5

Glen Helen Regional Park
Traffic Feasibility Analysis

Existing Weekend Peak Hour Traffic Volumes



LSA

XXXX

PM Peak Hour PCE Traffic Volumes

FIGURE 6

Glen Helen Regional Park
Traffic Feasibility Analysis

Existing Event Day Peak Hour Traffic Volumes

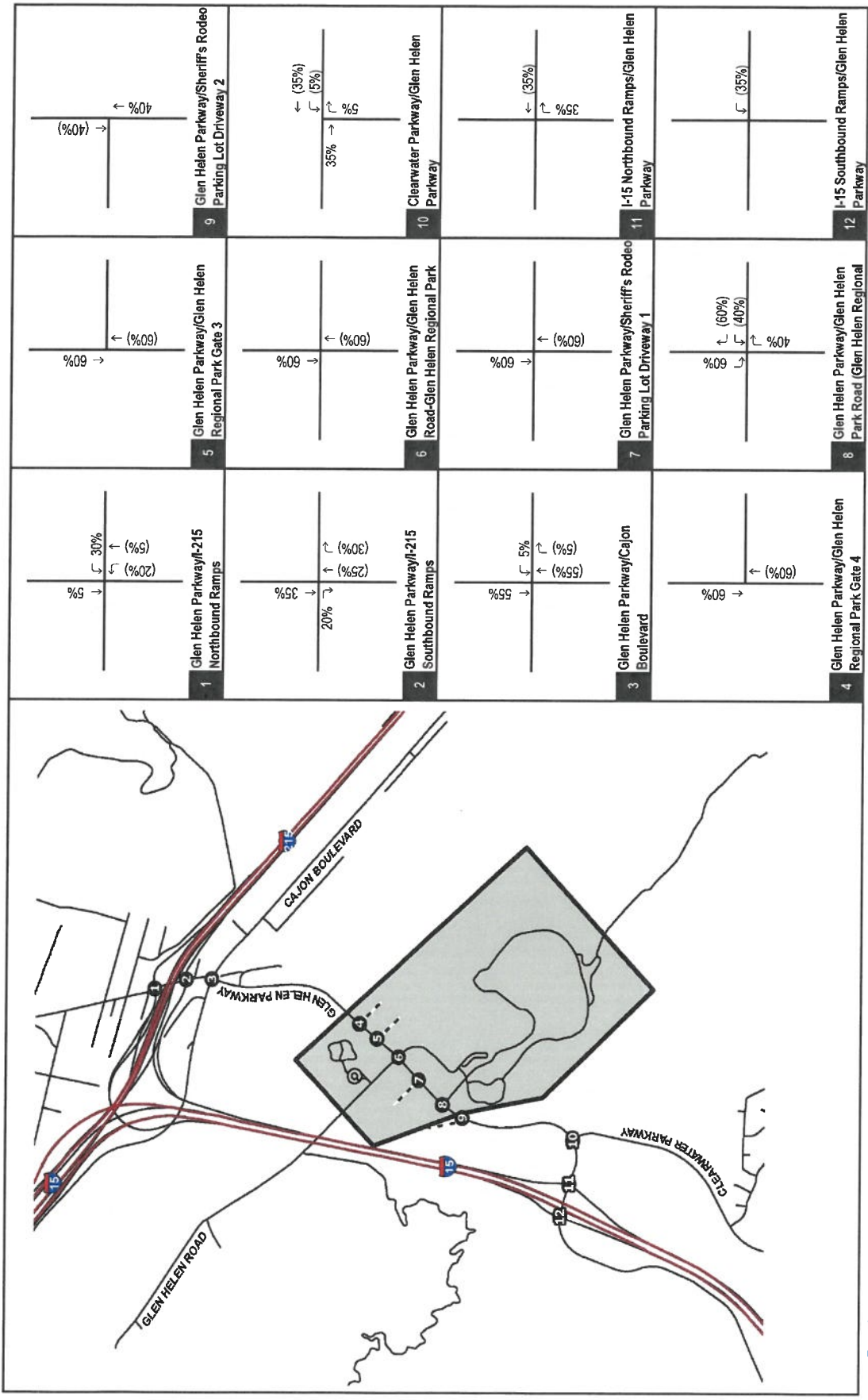


FIGURE 7

Glen Helen Regional Park
Traffic Feasibility Analysis
Project Trip Distribution

LSA

XX% (YY%)

Inbound (Outbound) Trip Distribution

----- Project Driveway

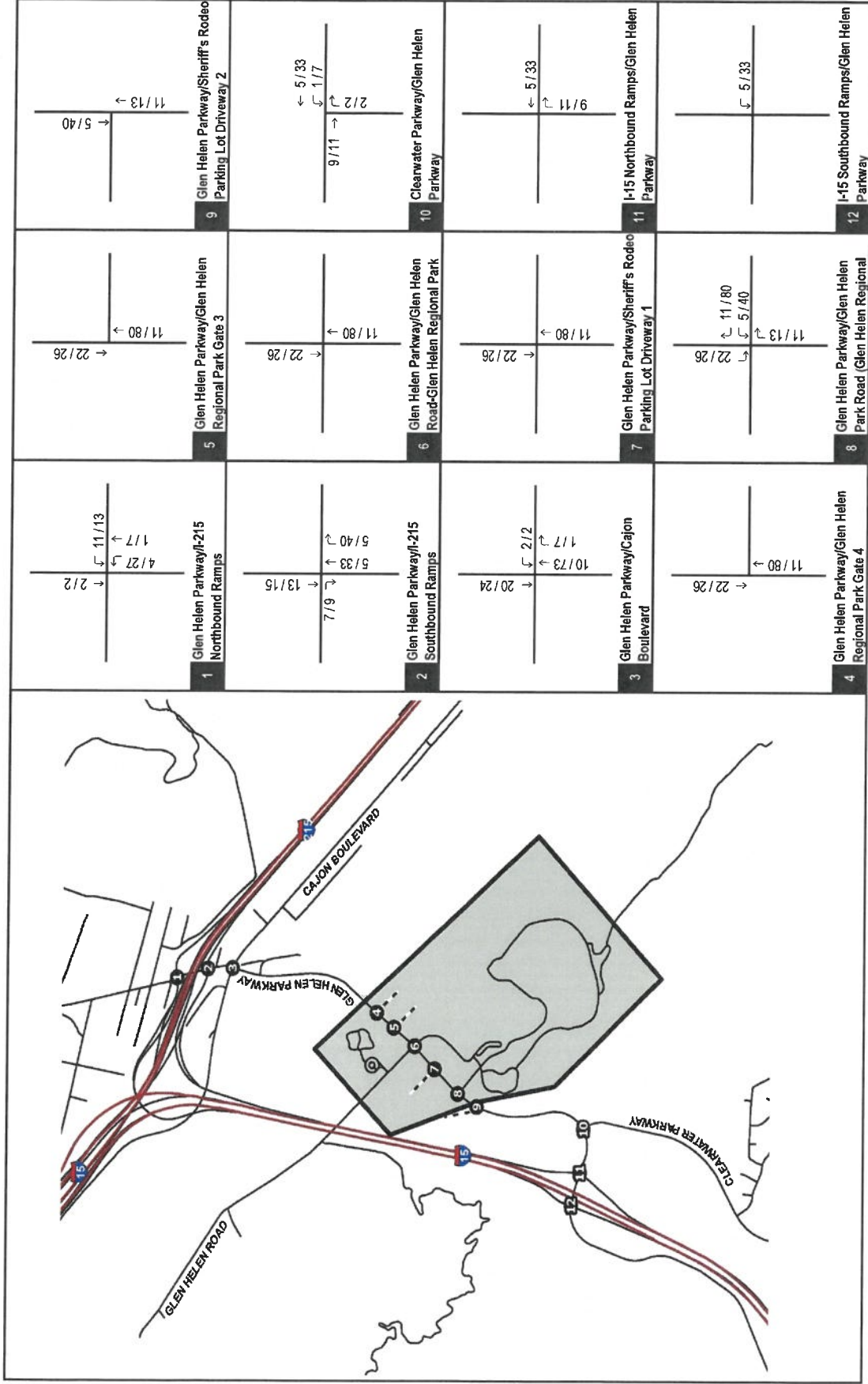


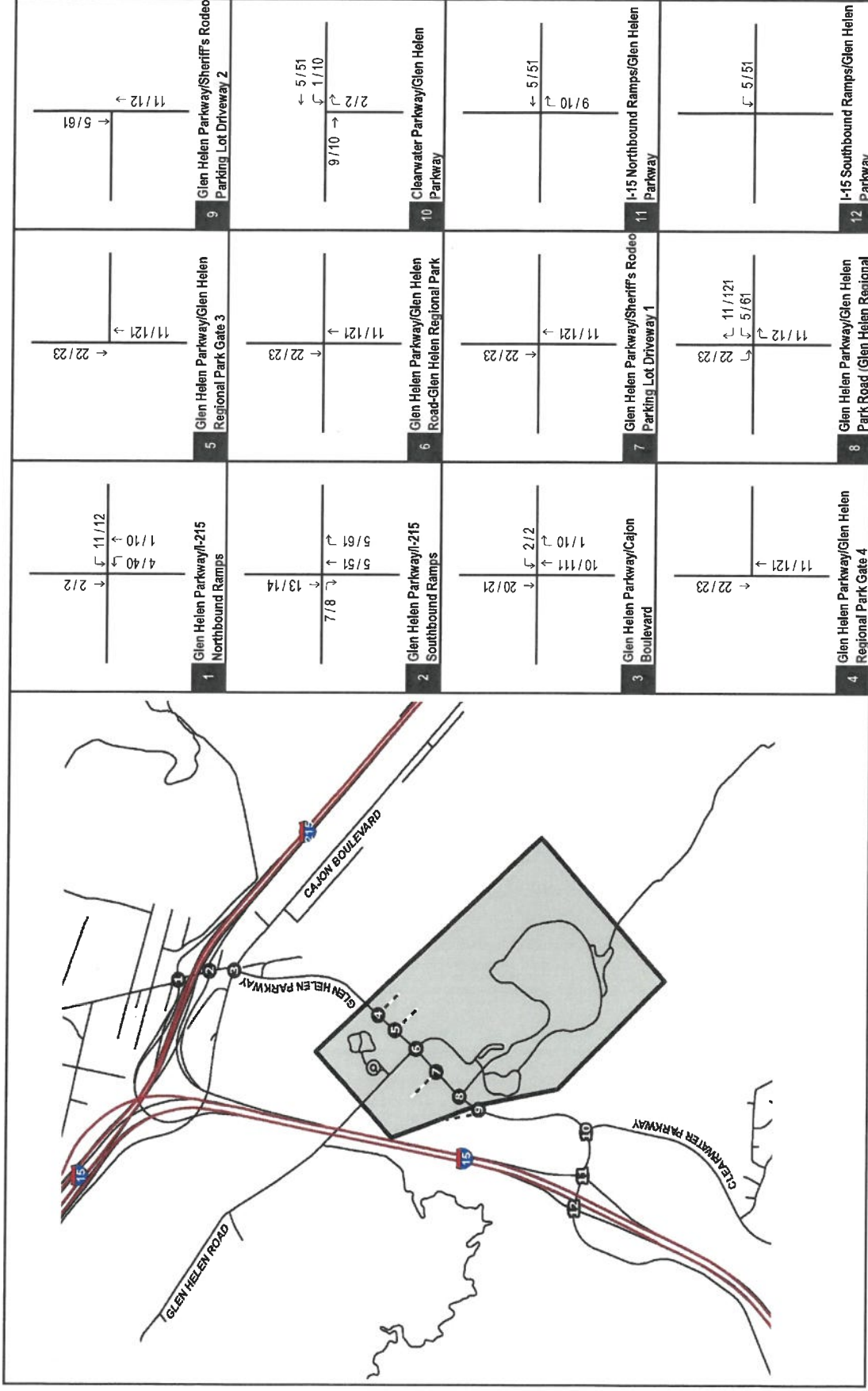
FIGURE 8

LSA

XX / YY

AM / PM Peak Hour Project Trips

Glen Helen Regional Park
Traffic Feasibility Analysis
Project Trip Assignment- Weekday



LSA

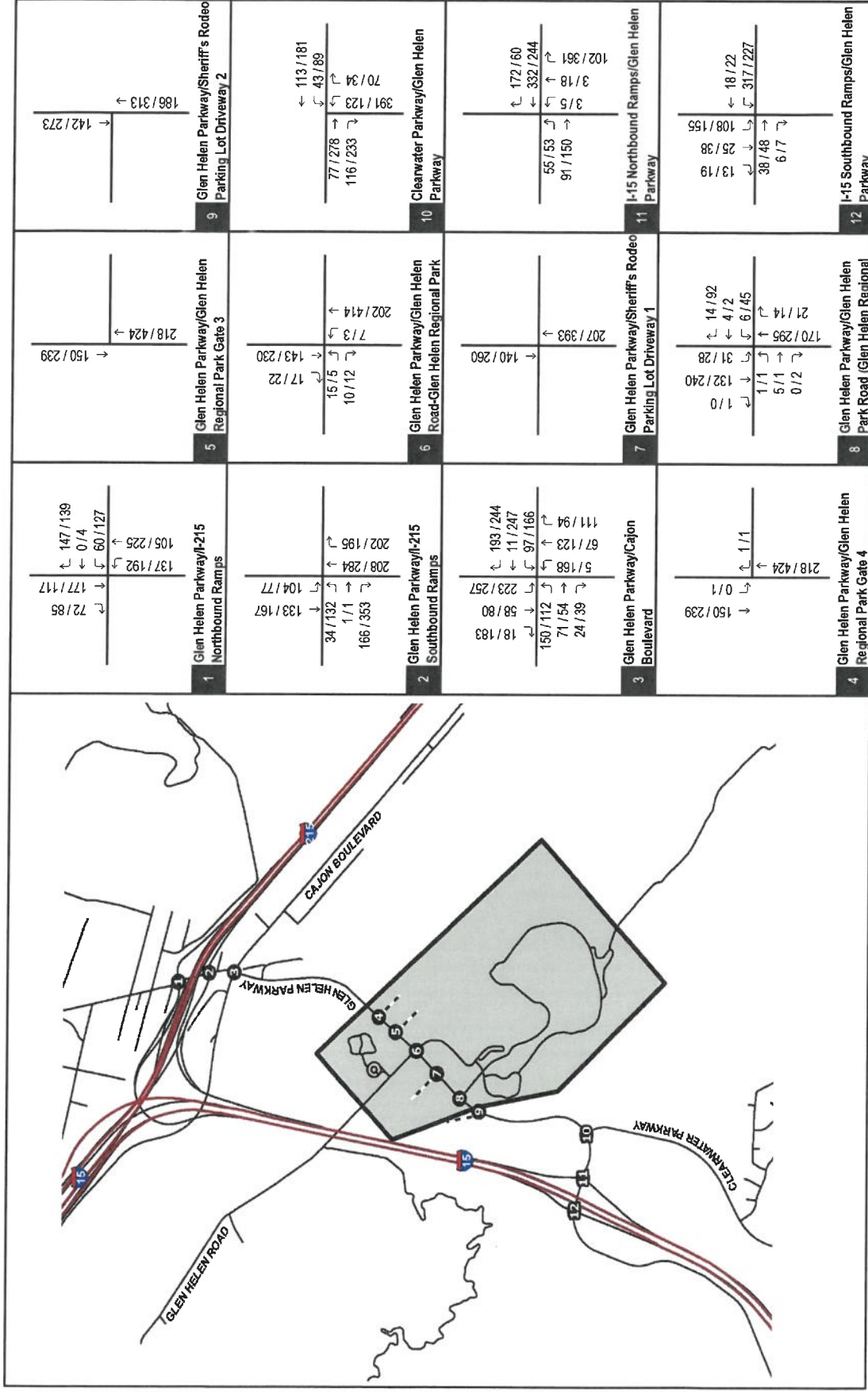
XXX / YYY

AM / PM Peak Hour Project Trips

FIGURE 9

Glen Helen Regional Park
Traffic Feasibility Analysis

Project Trip Assignment- Weekend/Event Day



LSA

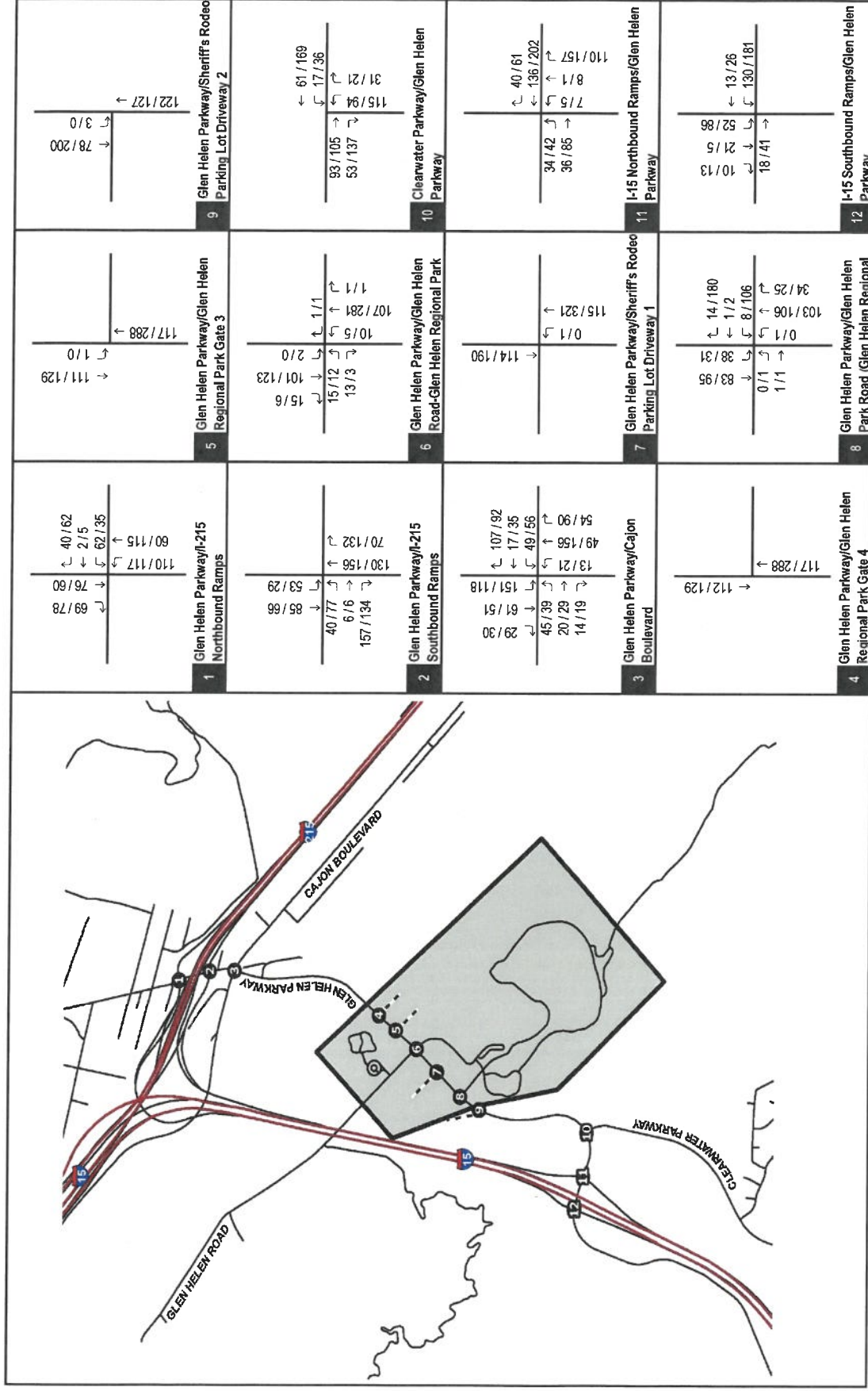
XXX / YYY

AM / PM Peak Hour PCE Traffic Volumes

FIGURE 10

Glen Helen Regional Park
Traffic Feasibility Analysis

Existing Plus Project Weekday Peak Hour Traffic Volumes



LSA

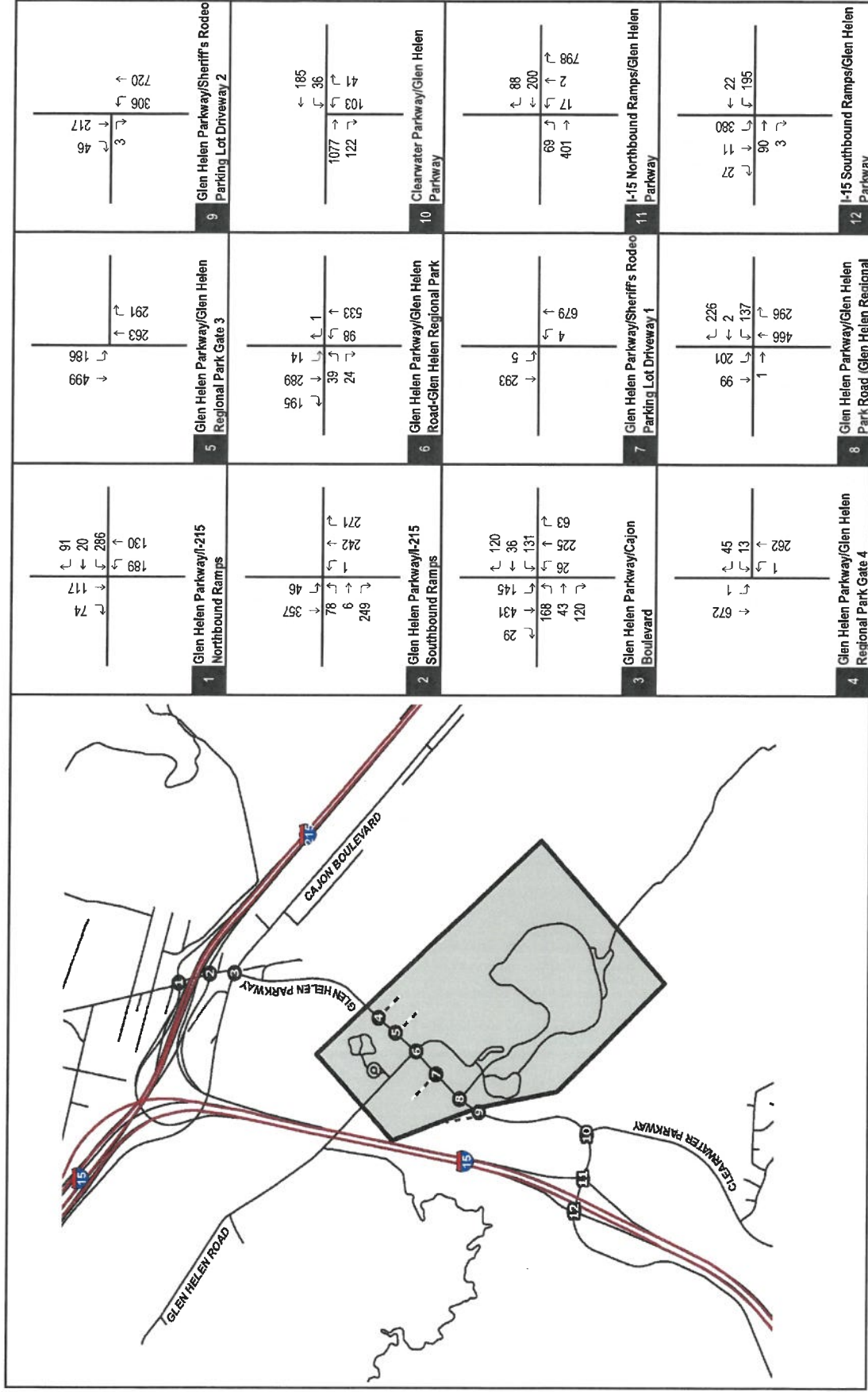
XXX / YY

AM / PM Peak Hour PCE Traffic Volumes

FIGURE 11

Glen Helen Regional Park
Traffic Feasibility Analysis

Existing Plus Project Weekend Peak Hour Traffic Volumes



LSA

XXXX

PM Peak Hour PCE Traffic Volumes

FIGURE 12

Glen Helen Regional Park
Traffic Feasibility Analysis

Existing Plus Project Event Day Peak Hour Traffic Volumes

ATTACHMENT B

TABLES

Table A - Intersection Level of Service Definitions

LOS	Description
A	Traffic operations with a control delay of 10 seconds per vehicle or less and a volume-to-capacity ratio no greater than 1.0. This level is typically assigned when the volume-to-capacity ratio is low and either progression is exceptionally favorable or the cycle length is very short. If LOS A is the result of favorable progression, most vehicles arrive during the green indication and travel through the intersection without stopping.
B	Traffic operations with control delay between 10 seconds per vehicle and 20 seconds per vehicle and a volume-to-capacity ratio no greater than 1.0. This level is typically assigned when the volume-to-capacity ratio is low and either progression is highly favorable or the cycle length is short. More vehicles stop than with LOS A.
C	Traffic operations with control delay between 20 and 35 seconds per vehicle and a volume-to-capacity ratio no greater than 1.0. This level is typically assigned when progression is favorable or the cycle length is moderate. Individual cycle failures (i.e., one or more queued vehicles are not able to depart as a result of the insufficient capacity during the cycle) may begin to appear at this level. The number of vehicles stopping is significant, although many vehicles still pass through the intersection without stopping.
D	Traffic operations with control delay between 35 and 55 seconds per vehicle and a volume-to-capacity ratio no greater than 1.0. This level is typically assigned when the volume-to-capacity ratio is high and either progression is ineffective or the cycle length is long. Many vehicles stop and individual cycle failures are noticeable.
E	Traffic operations with control delay between 55 and 80 seconds per vehicle and a volume-to-capacity ratio no greater than 1.0. This level is typically assigned when volume-to-capacity ratio is high, progression is unfavorable, and the cycle length is long. Individual cycle failures are frequent.
F	Traffic operations with control delay exceeding 80 seconds per vehicle or a volume-to-capacity ratio greater than 1.0. This level is typically assigned when the volume-to-capacity ratio is very high, progression is very poor, and the cycle length is long. Most cycles fail to clear the queue.

Source: *Highway Capacity Manual* (7th Edition).

Table B - Level of Service Criteria for Unsignalized and Signalized Intersections

Level of Service	Unsignalized Intersection Average Delay per Vehicle (sec.)	Signalized Intersection Average Delay per Vehicle (sec.)
A	≤ 10	≤ 10
B	> 10 and ≤ 15	> 10 and ≤ 20
C	> 15 and ≤ 25	> 20 and ≤ 35
D	> 25 and ≤ 35	> 35 and ≤ 55
E	> 35 and ≤ 50	> 55 and ≤ 80
F	> 50	> 80

Source: *Highway Capacity Manual* (7th Edition).

Table C - Existing Weekday Intersection Levels of Service

Intersection	Jurisdiction	LOS Standard	Control	Existing		
				A.M. Peak Hour Delay (sec.)	LOS	P.M. Peak Hour Delay (sec.) LOS
1 . Glen Helen Parkway/I-215 Northbound Ramps	Caltrans	D	AWSC	9.4	A	10.8 B
2 . Glen Helen Parkway/I-215 Southbound Ramps	Caltrans	D	AWSC	13.5	B	18.1 C
3 . Glen Helen Parkway/Cajon Boulevard	Caltrans	D	AWSC	14.3	B	38.6 E *
4 . Glen Helen Parkway/Glen Helen Regional Park Gate 4	San Bernardino County	D	OWSC	8.9	A	9.3 A
5 . Glen Helen Parkway/Glen Helen Regional Park Gate 3	San Bernardino County	D	OWSC	No Conflicting Mvmts	No Conflicting Mvmts	No Conflicting Mvmts
6 . Glen Helen Parkway/Glen Helen Road-Glen Helen Regional Park Gate 2	San Bernardino County	D	TWSC	9.5	A	9.5 A
7 . Glen Helen Parkway/Sheriff's Rodeo Parking Lot Driveway 1	San Bernardino County	D	OWSC	No Conflicting Mvmts	No Conflicting Mvmts	No Conflicting Mvmts
8 . Glen Helen Parkway/Glen Helen Park Road (Glen Helen Regional Park Gate 1)	San Bernardino County	D	TWSC	10.6	B	10.9 B
9 . Glen Helen Parkway/Sheriff's Rodeo Parking Lot Driveway 2	San Bernardino County	D	OWSC	No Conflicting Mvmts	No Conflicting Mvmts	No Conflicting Mvmts
10 . Clearwater Parkway/Glen Helen Parkway	San Bernardino County	D	Signal	14.9	B	14.4 B
11 . I-15 Northbound Ramps/Glen Helen Parkway	Caltrans	D	Signal	6.0	A	7.4 A
12 . I-15 Southbound Ramps/Glen Helen Parkway	Caltrans	D	OWSC	27.9	D	16.8 C

Notes:

AWSC= All-Way Stop Control; OWSC = One-Way Stop Control; TWSC = Two-Way Stop Control; LOS = Level of Service
 Delay = Average control delay in seconds (For OWSC/TWSC intersections, reported delay is for worst-case movement).
 * Exceeds LOS Standard

Table D - Existing Weekend Intersection Levels of Service

Intersection	Jurisdiction	LOS Standard	Control	Existing		
				A.M. Peak Hour Delay (sec.)	LOS	P.M. Peak Hour Delay (sec.) LOS
1 . Glen Helen Parkway/I-215 Northbound Ramps	Caltrans	D	AWSC	8.5	A	8.2 A
2 . Glen Helen Parkway/I-215 Southbound Ramps	Caltrans	D	AWSC	9.5	A	8.9 A
3 . Glen Helen Parkway/Cajon Boulevard	Caltrans	D	AWSC	9.6	A	9.7 A
4 . Glen Helen Parkway/Glen Helen Regional Park Gate 4	San Bernardino County	D	OWSC	No Conflicting Mvmts	No Conflicting Mvmts	No Conflicting Mvmts
5 . Glen Helen Parkway/Glen Helen Regional Park Gate 3	San Bernardino County	D	OWSC	7.5	A	No Conflicting Mvmts
6 . Glen Helen Parkway/Glen Helen Road-Glen Helen Regional Park Gate 2	San Bernardino County	D	TWSC	9.3	A	9.5 A
7 . Glen Helen Parkway/Sheriff's Rodeo Parking Lot Driveway 1	San Bernardino County	D	OWSC	No Conflicting Mvmts	No Conflicting Mvmts	7.6 A
8 . Glen Helen Parkway/Glen Helen Park Road (Glen Helen Regional Park Gate 1)	San Bernardino County	D	TWSC	10.4	B	10.0 A
9 . Glen Helen Parkway/Sheriff's Rodeo Parking Lot Driveway 2	San Bernardino County	D	OWSC	No Conflicting Mvmts	No Conflicting Mvmts	No Conflicting Mvmts
10 . Clearwater Parkway/Glen Helen Parkway	San Bernardino County	D	Signal	12.7	B	12.0 B
11 . I-15 Northbound Ramps/Glen Helen Parkway	Caltrans	D	Signal	8.7	A	6.7 A
12 . I-15 Southbound Ramps/Glen Helen Parkway	Caltrans	D	OWSC	12.1	B	12.0 B

Notes:

AWSC = All-Way Stop Control; OWSC = One-Way Stop Control; TWSC = Two-Way Stop Control; LOS = Level of Service
 Delay = Average control delay in seconds (For OWSC/TWSC intersections, reported delay is for worst-case movement).

* Exceeds LOS Standard

Table E - Existing Event Day Intersection Levels of Service

Intersection	Jurisdiction	LOS Standard	Existing	
			Control	P.M. Peak Hour Delay (sec.) LOS
1 . Glen Helen Parkway/I-215 Northbound Ramps	Caltrans	D	AWSC	13.0 B
2 . Glen Helen Parkway/I-215 Southbound Ramps	Caltrans	D	AWSC	18.6 C
3 . Glen Helen Parkway/Cajon Boulevard	Caltrans	D	AWSC	32.6 D
4 . Glen Helen Parkway/Glen Helen Regional Park Gate 4	San Bernardino County	D	OWSC	9.5 A
5 . Glen Helen Parkway/Glen Helen Regional Park Gate 3	San Bernardino County	D	OWSC	9.1 A
6 . Glen Helen Parkway/Glen Helen Road-Glen Helen Regional Park Gate 2	San Bernardino County	D	TWSC	14.0 B
7 . Glen Helen Parkway/Sheriff's Rodeo Parking Lot Driveway 1	San Bernardino County	D	OWSC	7.2 A
8 . Glen Helen Parkway/Glen Helen Park Road (Glen Helen Regional Park Gate 1)	San Bernardino County	D	TWSC	25.6 D
9 . Glen Helen Parkway/Sheriff's Rodeo Parking Lot Driveway 2	San Bernardino County	D	OWSC	8.9 A
10 . Clearwater Parkway/Glen Helen Parkway	San Bernardino County	D	Signal	15.2 B
11 . I-15 Northbound Ramps/Glen Helen Parkway	Caltrans	D	Signal	6.1 A
12 . I-15 Southbound Ramps/Glen Helen Parkway	Caltrans	D	OWSC	67.2 F *

Notes:

AWSC= All-Way Stop Control; OWSC = One-Way Stop Control; TWSC = Two-Way Stop Control; LOS = Level of Service

Delay = Average control delay in seconds (For OWSC/TWSC intersections, reported delay is for worst-case movement).

* Exceeds LOS Standard

Table F - Project Trip Generation - Weekday

Land Use	Units	A.M. Peak Hour			P.M. Peak Hour			Daily
		In	Out	Total	In	Out	Total	
Ampitheater	65000 Seat	Existing Facility, no capacity increase planned						
New Campground	13.17 Acre							
Trips/Unit ²		0.20	0.28	0.48	0.68	0.30	0.98	7.30
Trip Generation		3	4	7	9	4	13	96
Disc Golf	10.16 Acre	Existing Facility, no capacity increase planned						
Equestrian	18.99 Acre	Not anticipated to generate additional vehicular trips compared to existing						
Meeting Tree Museum	2.87 Acre	Not anticipated to generate additional trips compared to park facilities and water park						
Race Tack	82.09 Acre	Existing Facility, no capacity increase planned						
Ropes Course	2.13 Acre	Not anticipated to generate additional trips compared to park facilities and water park						
Water Park	585 Stalls							
Trips/Unit ²		0.06	0.02	0.08	0.06	0.22	0.28	2.27
Trip Generation		33	14	47	34	129	163	1,328
Yard	2.48 Acre	Existing Facility, Not anticipated to generate new trips						
Trips/Unit ²								
Trip Generation								
Gross New Trips		36	18	54	43	133	176	1,424

Notes:

DU = Dwelling Unit

¹ Rates based on Land Use 416 - "Campground/Recreational Vehicle Park" from the Institute of Transportation Engineers (ITE) *Trip Generation Manual*, 11th Edition, Setting/Location - "General Urban/Suburban."² Rates based on Land Use 482 - "Water Slide Park" from the ITE *Trip Generation Manual*, 11th Edition, Setting/Location - "General Urban/Suburban."

Table G - Project Trip Generation - Weekend/Event Day

Land Use	Units	A.M. Peak Hour			P.M. Peak Hour			Daily
		In	Out	Total	In	Out	Total	
Ampitheater	65,000 Seat	Existing Facility, No Capacity Increase planned						
New Campground	13.17 Acre							
Trips/Unit ²		0.20	0.28	0.48	0.68	0.30	0.98	7.30
Trip Generation		3	4	7	9	4	13	96
Disc Golf	10.16 Acre	Existing Facility, No Capacity Increase planned						
Equestrian	18.99 Acre	Not anticipated to generate additional vehicular trips compared to existing						
Meeting Tree Museum	2.87 Acre	Not anticipated to generate additional trips compared to park facilities and water park						
Race Tack	82.09 Acre	Existing Facility, No Capacity Increase planned						
Ropes Course	2.13 Acre	Not anticipated to generate additional trips compared to park facilities and water park						
Water Park	585 Stalls							
Trips/Unit ²		0.06	0.02	0.08	0.05	0.34	0.39	2.91
Trip Generation		33	14	47	30	198	228	1,702
Yard	2.48 Acre	Existing Facility, Not anticipated to generate new trips						
Trips/Unit ²								
Trip Generation								
Gross New Trips		36	18	54	39	202	241	1,798

Notes:

¹ Rates based on Land Use 416 - "Campground/Recreational Vehicle Park" from the Institute of Transportation Engineers (ITE) *Trip Generation Manual*, 11th Edition, Setting/Location - "General Urban/Suburban."

² Rates based on Land Use 482 - "Water Slide Park" from the ITE *Trip Generation Manual*, 11th Edition, Setting/Location - "General Urban/Suburban." For P.m. peak hour, Saturday peak hour of generator data have been used. Since such data is not available for a.m. peak hour, weekday a.m. peak hour data have been used.

Table H - Existing Plus Project Weekday Intersection Levels of Service

Intersection	Jurisdiction	LOS Standard	Existing			Plus Project			A.M. Peak Hour Increase In Delay (sec.)	P.M. Peak Hour Increase In Delay (sec.)	Improvement Required?
			A.M. Peak Hour Delay (sec.)	LOS	P.M. Peak Hour Delay (sec.)	A.M. Peak Hour Delay (sec.)	LOS	P.M. Peak Hour Delay (sec.)			
1 . Glen Helen Parkway/I-215 Northbound Ramps	Caltrans	D	9.4	A	10.8	9.5	A	11.3	0.1	0.5	No
2 . Glen Helen Parkway/I-215 Southbound Ramps	Caltrans	D	13.5	B	18.1	14.1	B	25.3	0.6	7.2	No
3 . Glen Helen Parkway/Calton Boulevard	Caltrans	D	14.3	B	38.6	14.7	B	56.4	0.4	37.8	Yes
4 . Glen Helen Parkway/Glen Helen Regional Park Gate 4	San Bernardino County	D	8.9	A	9.3	9.0	A	9.6	0.1	0.3	No
5 . Glen Helen Parkway/Glen Helen Regional Park Gate 3	San Bernardino County	D	No Conflicting Mvmts	No Conflicting Mvmts	No Conflicting Mvmts	No Conflicting Mvmts	No Conflicting Mvmts	No Conflicting Mvmts	0.0	0.0	No
6 . Glen Helen Parkway/Glen Helen Regional Park Gate 2	San Bernardino County	D	9.5	A	9.5	9.7	A	9.7	0.2	0.2	No
7 . Glen Helen Parkway/Sheriff's Rodero-Glen Helen Regional Park Gate 1	San Bernardino County	D	No Conflicting Mvmts	No Conflicting Mvmts	No Conflicting Mvmts	No Conflicting Mvmts	No Conflicting Mvmts	No Conflicting Mvmts	0.0	0.0	No
8 . Glen Helen Parkway/Sheriff's Rodero Parking Lot Driveway 1	San Bernardino County	D	10.6	B	10.9	11.1	B	11.7	0.5	0.8	No
9 . Glen Helen Parkway/Sheriff's Rodero Parking Lot Driveway 2	San Bernardino County	D	No Conflicting Mvmts	No Conflicting Mvmts	No Conflicting Mvmts	No Conflicting Mvmts	No Conflicting Mvmts	No Conflicting Mvmts	0.0	0.0	No
10 . Clearwater Parkway/Glen Helen Parkway	San Bernardino County	D	14.9	B	14.4	14.8	B	14.5	-0.1	0.1	No
11 . I-15 Northbound Ramps/Glen Helen Parkway	Caltrans	D	6.0	A	7.4	6.0	A	7.2	0.0	-0.2	No
12 . I-15 Southbound Ramps/Glen Helen Parkway	Caltrans	D	27.9	D	16.8	28.8	D	19.4	0.9	2.6	No

Notes:

AWSC= All-Way Stop Control; OWSC= One-Way Stop Control; TWSC= Two-Way Stop Control; LOS = Level of Service

Delay = Average control delay in seconds (for OWSC/TWSC intersections, reported delay is for worst-case movement).

• Exceeds LOS Standard

Table 1 - Existing Plus Project Weekend Intersection Levels of Service

Intersection	Jurisdiction	LOS Standard	Existing				Plus Project				A.M. Peak Hour Increase in Delay (sec.)	P.M. Peak Hour Increase in Delay (sec.)	Improvement Required?
			Control	A.M. Peak Hour Delay (sec.)	LOS	P.M. Peak Hour Delay (sec.)	LOS	Control	A.M. Peak Hour Delay (sec.)	LOS			
1. Glen Helen Parkway/H-215 Northbound Ramps	Caltrans	D	AWSC	8.5	A	8.2	A	AWSC	8.5	A	0.0	0.0	No
2. Glen Helen Parkway/H-215 Southbound Ramps	Caltrans	D	AWSC	9.5	A	8.9	A	AWSC	9.7	A	0.2	0.0	No
3. Glen Helen Parkway/Caion Boulevard	Caltrans	D	AWSC	9.6	A	9.7	A	AWSC	9.9	A	0.3	0.0	No
4. Glen Helen Parkway/Glen Helen Regional Park Gate 4	San Bernardino County	D	OWSC	No Conflicting Mvmts		No Conflicting Mvmts		OWSC	No Conflicting Mvmts		0.0	0.0	No
5. Glen Helen Parkway/Glen Helen Regional Park Gate 3	San Bernardino County	D	OWSC	No Conflicting Mvmts		No Conflicting Mvmts		OWSC	No Conflicting Mvmts		0.0	0.0	No
6. Glen Helen Parkway/Glen Helen Regional Park Gate 2	San Bernardino County	D	OWSC	7.5	A	No Conflicting Mvmts		OWSC	7.5	A	0.0	0.0	No
7. Glen Helen Parkway/Sheriff's Rodeo Parking Lot Driveway 1	San Bernardino County	D	OWSC	9.3	A	9.5	A	OWSC	9.4	A	0.1	0.0	No
8. Glen Helen Parkway/Glen Helen Regional Park Gate 1	San Bernardino County	D	OWSC	No Conflicting Mvmts		7.6	A	OWSC	No Conflicting Mvmts		0.0	0.0	No
9. Glen Helen Parkway/Sheriff's Rodeo Parking Lot Driveway 2	San Bernardino County	D	OWSC	10.4	B	10.0	A	OWSC	10.9	B	0.5	0.0	No
10. Clearwater Parkway/Glen Helen Parkway	San Bernardino County	D	Signal	12.7	B	12.0	B	Signal	12.6	B	0.0	0.0	No
11. I-15 Northbound Ramps/Glen Helen Parkway	Caltrans	D	Signal	8.7	A	6.7	A	Signal	8.5	A	-0.1	0.0	No
12. I-15 Southbound Ramps/Glen Helen Parkway	Caltrans	D	OWSC	12.1	B	12.0	B	OWSC	12.3	B	0.2	0.0	No

Notes:

AWSC - All Way Stop Control; OWSC - One-Way Stop Control; TWSC - Two-Way Stop Control; LOS = Level of Service

Delay = Average control delay in seconds (For OWSC/TWSC intersections, reported delay is for worst-case movement).

* Exceeds LOS Standard

Table J - Existing Plus Project Event Day Intersection Levels of Service

Intersection	Jurisdiction	LOS Standard	Existing		Plus Project	
			Control	P.M. Peak Hour Delay (sec.) LOS	Control	P.M. Peak Hour Delay (sec.) LOS
1 . Glen Helen Parkway/I-215 Northbound Ramps	Caltrans	D	AWSC	13.0 B	AWSC	13.9 B
2 . Glen Helen Parkway/I-215 Southbound Ramps	Caltrans	D	AWSC	18.6 C	AWSC	31.0 D
3 . Glen Helen Parkway/Cajon Boulevard	Caltrans	D	AWSC	32.6 D	AWSC	50.9 F *
4 . Glen Helen Parkway/Glen Helen Regional Park Gate 4	San Bernardino County	D	OWSC	9.5 A	OWSC	10.0 A
5 . Glen Helen Parkway/Glen Helen Regional Park Gate 3	San Bernardino County	D	OWSC	9.1 A	OWSC	9.7 A
6 . Glen Helen Parkway/Glen Helen Road-Glen Helen Regional Park Gate 3	San Bernardino County	D	TWSC	14.0 B	TWSC	14.8 B
7 . Glen Helen Parkway/Sheriff's Rodeo Parking Lot Driveway 1	San Bernardino County	D	OWSC	7.2 A	OWSC	8.0 A
8 . Glen Helen Parkway/Glen Helen Park Road (Glen Helen Regional Park Gate 3)	San Bernardino County	D	TWSC	25.6 D	TWSC	29.5 D
9 . Glen Helen Parkway/Sheriff's Rodeo Parking Lot Driveway 2	San Bernardino County	D	OWSC	8.9 A	OWSC	9.1 A
10 . Clearwater Parkway/Glen Helen Parkway	San Bernardino County	D	Signal	15.2 B	Signal	15.6 B
11 . I-15 Northbound Ramps/Glen Helen Parkway	Caltrans	D	Signal	6.1 A	Signal	5.9 A
12 . I-15 Southbound Ramps/Glen Helen Parkway	Caltrans	D	OWSC	67.2 F *	OWSC	>100 F *

Notes:

AWSC= All-Way Stop Control; OWSC = One-Way Stop Control; TWSC = Two-Way Stop Control; LOS = Level of Service

Delay = Average control delay in seconds (For OWSC/TWSC intersections, reported delay is for worst-case movement).

* Exceeds LOS Standard

Table K - With Improvement Existing Plus Project Weekday Intersection Levels of Service

Intersection	Jurisdiction	LOS Standard	Plus Project Without Improvements			Plus Project With Improvements		
			Control	A.M. Peak Hour Delay (sec.)	P.M. Peak Hour Delay (sec.)	Control	A.M. Peak Hour Delay (sec.)	P.M. Peak Hour Delay (sec.)
3 . Glen Helen Parkway/Cajon Boulevard	Caltrans	D	AWSC	14.7	56.4	F *	13.6	28.6

Notes:

- AWSC= All-Way Stop Control; OWSC = One-Way Stop Control; TWSC = Two-Way Stop Control; LOS = Level of Service
 Delay = Average control delay in seconds (for OWSC/TWSC Intersections, reported delay is for worst-case movement).
 * Exceeds LOS Standard

APPENDIX A

TRAFFIC COUNT SHEETS

Counts Unlimited, Inc.
PO Box 1178
Corona, CA 92878
(951) 268-6268

County of San Bernardino
N/S: Glen Helen Parkway
E/W: I-215 Northbound Ramps
Weather: Clear

File Name : 01_CSB_GH_215N AM
Site Code : 00324507
Start Date : 5/21/2024
Page No : 1

Groups Printed- Passenger Vehicles - Large 2 Axle Vehicles - 3 Axle Vehicles - 4+ Axle Trucks

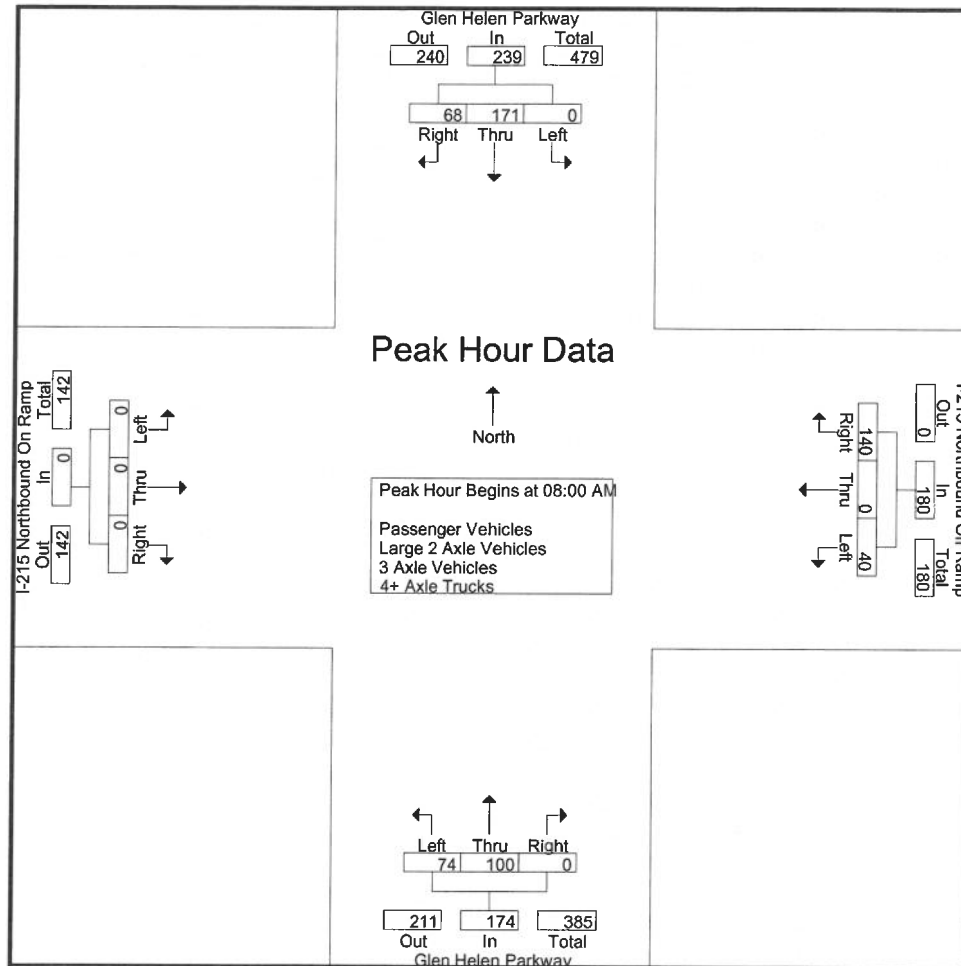
	Glen Helen Parkway Southbound				I-215 Northbound Off Ramp Westbound				Glen Helen Parkway Northbound				I-215 Northbound On Ramp Eastbound				
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
07:00 AM	0	31	14	45	15	1	11	27	24	12	0	36	0	0	0	0	108
07:15 AM	0	28	30	58	20	2	16	38	22	16	0	38	0	0	0	0	134
07:30 AM	0	26	17	43	10	0	11	21	12	15	0	27	0	0	0	0	91
07:45 AM	0	36	20	56	11	0	6	17	17	19	0	36	0	0	0	0	109
Total	0	121	81	202	56	3	44	103	75	62	0	137	0	0	0	0	442
08:00 AM	0	47	13	60	10	0	34	44	19	27	0	46	0	0	0	0	150
08:15 AM	0	35	17	52	11	0	37	48	16	29	0	45	0	0	0	0	145
08:30 AM	0	34	16	50	11	0	37	48	24	25	0	49	0	0	0	0	147
08:45 AM	0	55	22	77	8	0	32	40	15	19	0	34	0	0	0	0	151
Total	0	171	68	239	40	0	140	180	74	100	0	174	0	0	0	0	593
Grand Total	0	292	149	441	96	3	184	283	149	162	0	311	0	0	0	0	1035
Apprch %	0	66.2	33.8		33.9	1.1	65		47.9	52.1	0		0	0	0		
Total %	0	28.2	14.4	42.6	9.3	0.3	17.8	27.3	14.4	15.7	0	30	0	0	0	0	
Passenger Vehicles	0	272	135	407	70	1	170	241	80	141	0	221	0	0	0	0	869
% Passenger Vehicles	0	93.2	90.6	92.3	72.9	33.3	92.4	85.2	53.7	87	0	71.1	0	0	0	0	84
Large 2 Axle Vehicles	0	19	11	30	18	0	12	30	10	20	0	30	0	0	0	0	90
% Large 2 Axle Vehicles	0	6.5	7.4	6.8	18.8	0	6.5	10.6	6.7	12.3	0	9.6	0	0	0	0	8.7
3 Axle Vehicles	0	1	1	2	2	0	1	3	5	1	0	6	0	0	0	0	11
% 3 Axle Vehicles	0	0.3	0.7	0.5	2.1	0	0.5	1.1	3.4	0.6	0	1.9	0	0	0	0	1.1
4+ Axle Trucks	0	0	2	2	6	2	1	9	54	0	0	54	0	0	0	0	65
% 4+ Axle Trucks	0	0	1.3	0.5	6.2	66.7	0.5	3.2	36.2	0	0	17.4	0	0	0	0	6.3

	Glen Helen Parkway Southbound				I-215 Northbound Off Ramp Westbound				Glen Helen Parkway Northbound				I-215 Northbound On Ramp Eastbound				
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
Peak Hour Analysis From 07:00 AM to 08:45 AM - Peak 1 of 1																	
Peak Hour for Entire Intersection Begins at 08:00 AM																	
08:00 AM	0	47	13	60	10	0	34	44	19	27	0	46	0	0	0	0	150
08:15 AM	0	35	17	52	11	0	37	48	16	29	0	45	0	0	0	0	145
08:30 AM	0	34	16	50	11	0	37	48	24	25	0	49	0	0	0	0	147
08:45 AM	0	55	22	77	8	0	32	40	15	19	0	34	0	0	0	0	151
Total Volume	0	171	68	239	40	0	140	180	74	100	0	174	0	0	0	0	593
% App. Total	0	71.5	28.5		22.2	0	77.8		42.5	57.5	0		0	0	0		
PHF	.000	.777	.773	.776	.909	.000	.946	.938	.771	.862	.000	.888	.000	.000	.000	.000	.982

Counts Unlimited, Inc.
PO Box 1178
Corona, CA 92878
(951) 268-6268

County of San Bernardino
N/S: Glen Helen Parkway
E/W: I-215 Northbound Ramps
Weather: Clear

File Name : 01_CSB_GH_215N AM
Site Code : 00324507
Start Date : 5/21/2024
Page No : 2



Peak Hour Analysis From 07:00 AM to 08:45 AM - Peak 1 of 1
Peak Hour for Each Approach Begins at:

	08:00 AM				08:00 AM				07:45 AM				07:00 AM			
+0 mins.	0	47	13	60	10	0	34	44	17	19	0	36	0	0	0	0
+15 mins.	0	35	17	52	11	0	37	48	19	27	0	46	0	0	0	0
+30 mins.	0	34	16	50	11	0	37	48	16	29	0	45	0	0	0	0
+45 mins.	0	55	22	77	8	0	32	40	24	25	0	49	0	0	0	0
Total Volume	0	171	68	239	40	0	140	180	76	100	0	176	0	0	0	0
% App. Total	0	71.5	28.5		22.2	0	77.8		43.2	56.8	0		0	0	0	
PHF	.000	.777	.773	.776	.909	.000	.946	.938	.792	.862	.000	.898	.000	.000	.000	.000

Counts Unlimited, Inc.
PO Box 1178
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County of San Bernardino
N/S: Glen Helen Parkway
E/W: I-215 Northbound Ramps
Weather: Clear

File Name : 01_CSB_GH_215N AM
Site Code : 00324507
Start Date : 5/21/2024
Page No : 1

Groups Printed- Passenger Vehicles

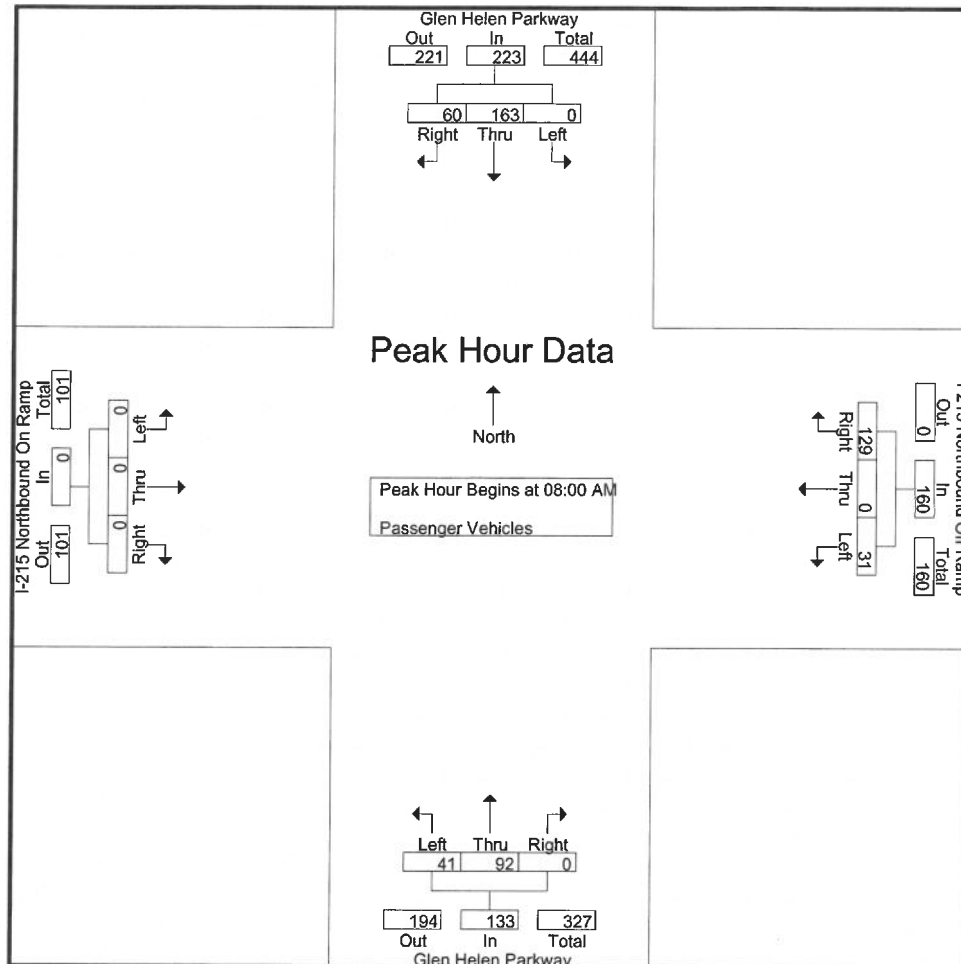
	Glen Helen Parkway Southbound				I-215 Northbound Off Ramp Westbound				Glen Helen Parkway Northbound				I-215 Northbound On Ramp Eastbound				
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
07:00 AM	0	25	14	39	11	0	11	22	10	8	0	18	0	0	0	0	79
07:15 AM	0	25	27	52	12	1	15	28	13	14	0	27	0	0	0	0	107
07:30 AM	0	26	14	40	7	0	9	16	8	9	0	17	0	0	0	0	73
07:45 AM	0	33	20	53	9	0	6	15	8	18	0	26	0	0	0	0	94
Total	0	109	75	184	39	1	41	81	39	49	0	88	0	0	0	0	353
08:00 AM	0	43	13	56	7	0	31	38	12	24	0	36	0	0	0	0	130
08:15 AM	0	34	11	45	8	0	34	42	10	25	0	35	0	0	0	0	122
08:30 AM	0	31	15	46	9	0	34	43	10	24	0	34	0	0	0	0	123
08:45 AM	0	55	21	76	7	0	30	37	9	19	0	28	0	0	0	0	141
Total	0	163	60	223	31	0	129	160	41	92	0	133	0	0	0	0	516
Grand Total	0	272	135	407	70	1	170	241	80	141	0	221	0	0	0	0	869
Apprch %	0	66.8	33.2		29	0.4	70.5		36.2	63.8	0		0	0	0		
Total %	0	31.3	15.5	46.8	8.1	0.1	19.6	27.7	9.2	16.2	0	25.4	0	0	0	0	

	Glen Helen Parkway Southbound				I-215 Northbound Off Ramp Westbound				Glen Helen Parkway Northbound				I-215 Northbound On Ramp Eastbound				
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
Peak Hour Analysis From 08:00 AM to 08:45 AM - Peak 1 of 1																	
Peak Hour for Entire Intersection Begins at 08:00 AM																	
08:00 AM	0	43	13	56	7	0	31	38	12	24	0	36	0	0	0	0	130
08:15 AM	0	34	11	45	8	0	34	42	10	25	0	35	0	0	0	0	122
08:30 AM	0	31	15	46	9	0	34	43	10	24	0	34	0	0	0	0	123
08:45 AM	0	55	21	76	7	0	30	37	9	19	0	28	0	0	0	0	141
Total Volume	0	163	60	223	31	0	129	160	41	92	0	133	0	0	0	0	516
% App. Total	0	73.1	26.9		19.4	0	80.6		30.8	69.2	0		0	0	0		
PHF	.000	.741	.714	.734	.861	.000	.949	.930	.854	.920	.000	.924	.000	.000	.000	.000	.915

Counts Unlimited, Inc.
PO Box 1178
Corona, CA 92878
(951) 268-6268

County of San Bernardino
N/S: Glen Helen Parkway
E/W: I-215 Northbound Ramps
Weather: Clear

File Name : 01_CSB_GH_215N AM
Site Code : 00324507
Start Date : 5/21/2024
Page No : 2



Peak Hour Analysis From 08:00 AM to 08:45 AM - Peak 1 of 1
Peak Hour for Each Approach Begins at:

	08:00 AM				08:00 AM				08:00 AM				08:00 AM			
+0 mins.	0	43	13	56	7	0	31	38	12	24	0	36	0	0	0	0
+15 mins.	0	34	11	45	8	0	34	42	10	25	0	35	0	0	0	0
+30 mins.	0	31	15	46	9	0	34	43	10	24	0	34	0	0	0	0
+45 mins.	0	55	21	76	7	0	30	37	9	19	0	28	0	0	0	0
Total Volume	0	163	60	223	31	0	129	160	41	92	0	133	0	0	0	0
% App. Total	0	73.1	26.9		19.4	0	80.6		30.8	69.2	0		0	0	0	
PHF	.000	.741	.714	.734	.861	.000	.949	.930	.854	.920	.000	.924	.000	.000	.000	.000

Counts Unlimited, Inc.
PO Box 1178
Corona, CA 92878
(951) 268-6268

County of San Bernardino
N/S: Glen Helen Parkway
E/W: I-215 Northbound Ramps
Weather: Clear

File Name : 01_CSB_GH_215N AM
Site Code : 00324507
Start Date : 5/21/2024
Page No : 1

Groups Printed- Large 2 Axle Vehicles

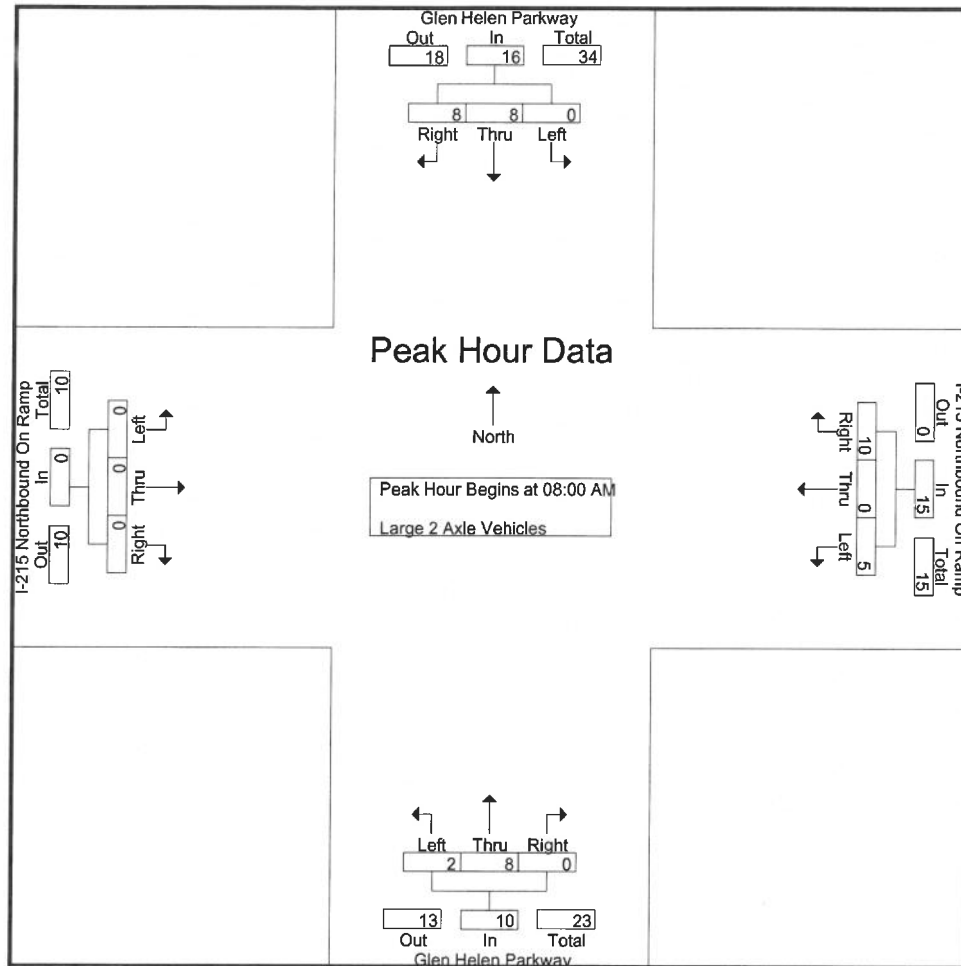
	Glen Helen Parkway Southbound				I-215 Northbound Off Ramp Westbound				Glen Helen Parkway Northbound				I-215 Northbound On Ramp Eastbound				
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
07:00 AM	0	6	0	6	2	0	0	2	6	4	0	10	0	0	0	0	18
07:15 AM	0	3	1	4	7	0	1	8	2	2	0	4	0	0	0	0	16
07:30 AM	0	0	2	2	3	0	1	4	0	5	0	5	0	0	0	0	11
07:45 AM	0	2	0	2	1	0	0	1	0	1	0	1	0	0	0	0	4
Total	0	11	3	14	13	0	2	15	8	12	0	20	0	0	0	0	49
08:00 AM	0	4	0	4	1	0	3	4	0	3	0	3	0	0	0	0	11
08:15 AM	0	1	6	7	3	0	3	6	2	4	0	6	0	0	0	0	19
08:30 AM	0	3	1	4	1	0	2	3	0	1	0	1	0	0	0	0	8
08:45 AM	0	0	1	1	0	0	2	2	0	0	0	0	0	0	0	0	3
Total	0	8	8	16	5	0	10	15	2	8	0	10	0	0	0	0	41
Grand Total	0	19	11	30	18	0	12	30	10	20	0	30	0	0	0	0	90
Apprch %	0	63.3	36.7		60	0	40		33.3	66.7	0		0	0	0		
Total %	0	21.1	12.2	33.3	20	0	13.3	33.3	11.1	22.2	0	33.3	0	0	0	0	

	Glen Helen Parkway Southbound				I-215 Northbound Off Ramp Westbound				Glen Helen Parkway Northbound				I-215 Northbound On Ramp Eastbound				
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
Peak Hour Analysis From 08:00 AM to 08:45 AM - Peak 1 of 1																	
Peak Hour for Entire Intersection Begins at 08:00 AM																	
08:00 AM	0	4	0	4	1	0	3	4	0	3	0	3	0	0	0	0	11
08:15 AM	0	1	6	7	3	0	3	6	2	4	0	6	0	0	0	0	19
08:30 AM	0	3	1	4	1	0	2	3	0	1	0	1	0	0	0	0	8
08:45 AM	0	0	1	1	0	0	2	2	0	0	0	0	0	0	0	0	3
Total Volume	0	8	8	16	5	0	10	15	2	8	0	10	0	0	0	0	41
% App. Total	0	50	50		33.3	0	66.7		20	80	0		0	0	0		
PHF	.000	.500	.333	.571	.417	.000	.833	.625	.250	.500	.000	.417	.000	.000	.000	.000	.539

Counts Unlimited, Inc.
PO Box 1178
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County of San Bernardino
N/S: Glen Helen Parkway
E/W: I-215 Northbound Ramps
Weather: Clear

File Name : 01_CSB_GH_215N AM
Site Code : 00324507
Start Date : 5/21/2024
Page No : 2



Peak Hour Analysis From 08:00 AM to 08:45 AM - Peak 1 of 1
Peak Hour for Each Approach Begins at:

	08:00 AM				08:00 AM				08:00 AM				08:00 AM			
+0 mins.	0	4	0	4	1	0	3	4	0	3	0	3	0	0	0	0
+15 mins.	0	1	6	7	3	0	3	6	2	4	0	6	0	0	0	0
+30 mins.	0	3	1	4	1	0	2	3	0	1	0	1	0	0	0	0
+45 mins.	0	0	1	1	0	0	2	2	0	0	0	0	0	0	0	0
Total Volume	0	8	8	16	5	0	10	15	2	8	0	10	0	0	0	0
% App. Total	0	50	50		33.3	0	66.7		20	80	0		0	0	0	
PHF	.000	.500	.333	.571	.417	.000	.833	.625	.250	.500	.000	.417	.000	.000	.000	.000

Counts Unlimited, Inc.
PO Box 1178
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County of San Bernardino
N/S: Glen Helen Parkway
E/W: I-215 Northbound Ramps
Weather: Clear

File Name : 01_CSB_GH_215N AM
Site Code : 00324507
Start Date : 5/21/2024
Page No : 1

Groups Printed- 3 Axle Vehicles

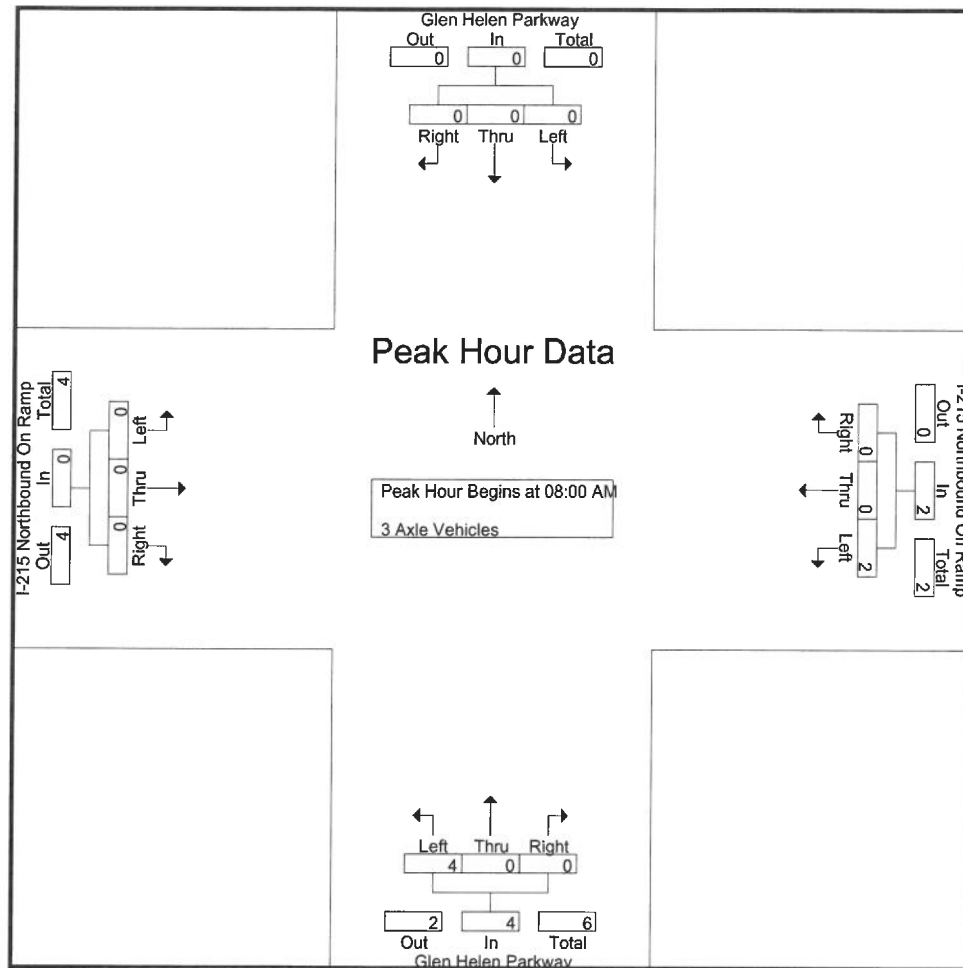
	Glen Helen Parkway Southbound				I-215 Northbound Off Ramp Westbound				Glen Helen Parkway Northbound				I-215 Northbound On Ramp Eastbound				
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
07:00 AM	0	0	0	0	0	0	0	0	1	0	0	1	0	0	0	0	1
07:15 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
07:30 AM	0	0	1	1	0	0	1	1	0	1	0	1	0	0	0	0	3
07:45 AM	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	1
Total	0	1	1	2	0	0	1	1	1	1	0	2	0	0	0	0	5
08:00 AM	0	0	0	0	1	0	0	1	2	0	0	2	0	0	0	0	3
08:15 AM	0	0	0	0	0	0	0	0	1	0	0	1	0	0	0	0	1
08:30 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
08:45 AM	0	0	0	0	1	0	0	1	1	0	0	1	0	0	0	0	2
Total	0	0	0	0	2	0	0	2	4	0	0	4	0	0	0	0	6
Grand Total	0	1	1	2	2	0	1	3	5	1	0	6	0	0	0	0	11
Apprch %	0	50	50		66.7	0	33.3		83.3	16.7	0		0	0	0		
Total %	0	9.1	9.1	18.2	18.2	0	9.1	27.3	45.5	9.1	0	54.5	0	0	0	0	

	Glen Helen Parkway Southbound				I-215 Northbound Off Ramp Westbound				Glen Helen Parkway Northbound				I-215 Northbound On Ramp Eastbound				
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
Peak Hour Analysis From 08:00 AM to 08:45 AM - Peak 1 of 1																	
Peak Hour for Entire Intersection Begins at 08:00 AM																	
08:00 AM	0	0	0	0	1	0	0	1	2	0	0	2	0	0	0	0	3
08:15 AM	0	0	0	0	0	0	0	0	1	0	0	1	0	0	0	0	1
08:30 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
08:45 AM	0	0	0	0	1	0	0	1	1	0	0	1	0	0	0	0	2
Total Volume	0	0	0	0	2	0	0	2	4	0	0	4	0	0	0	0	6
% App. Total	0	0	0		100	0	0		100	0	0		0	0	0		
PHF	.000	.000	.000	.000	.500	.000	.000	.500	.500	.000	.000	.500	.000	.000	.000	.000	.500

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County of San Bernardino
N/S: Glen Helen Parkway
E/W: I-215 Northbound Ramps
Weather: Clear

File Name : 01_CSB_GH_215N AM
Site Code : 00324507
Start Date : 5/21/2024
Page No : 2



Peak Hour Analysis From 08:00 AM to 08:45 AM - Peak 1 of 1

Peak Hour for Each Approach Begins at:

	08:00 AM				08:00 AM				08:00 AM				08:00 AM			
+0 mins.	0	0	0	0	1	0	0	1	2	0	0	2	0	0	0	0
+15 mins.	0	0	0	0	0	0	0	0	1	0	0	1	0	0	0	0
+30 mins.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
+45 mins.	0	0	0	0	1	0	0	1	1	0	0	1	0	0	0	0
Total Volume	0	0	0	0	2	0	0	2	4	0	0	4	0	0	0	0
% App. Total	0	0	0	0	100	0	0	100	100	0	0	100	0	0	0	0
PHF	.000	.000	.000	.000	.500	.000	.000	.500	.500	.000	.000	.500	.000	.000	.000	.000

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County of San Bernardino
N/S: Glen Helen Parkway
E/W: I-215 Northbound Ramps
Weather: Clear

File Name : 01_CSB_GH_215N AM
Site Code : 00324507
Start Date : 5/21/2024
Page No : 1

Groups Printed- 4+ Axle Trucks

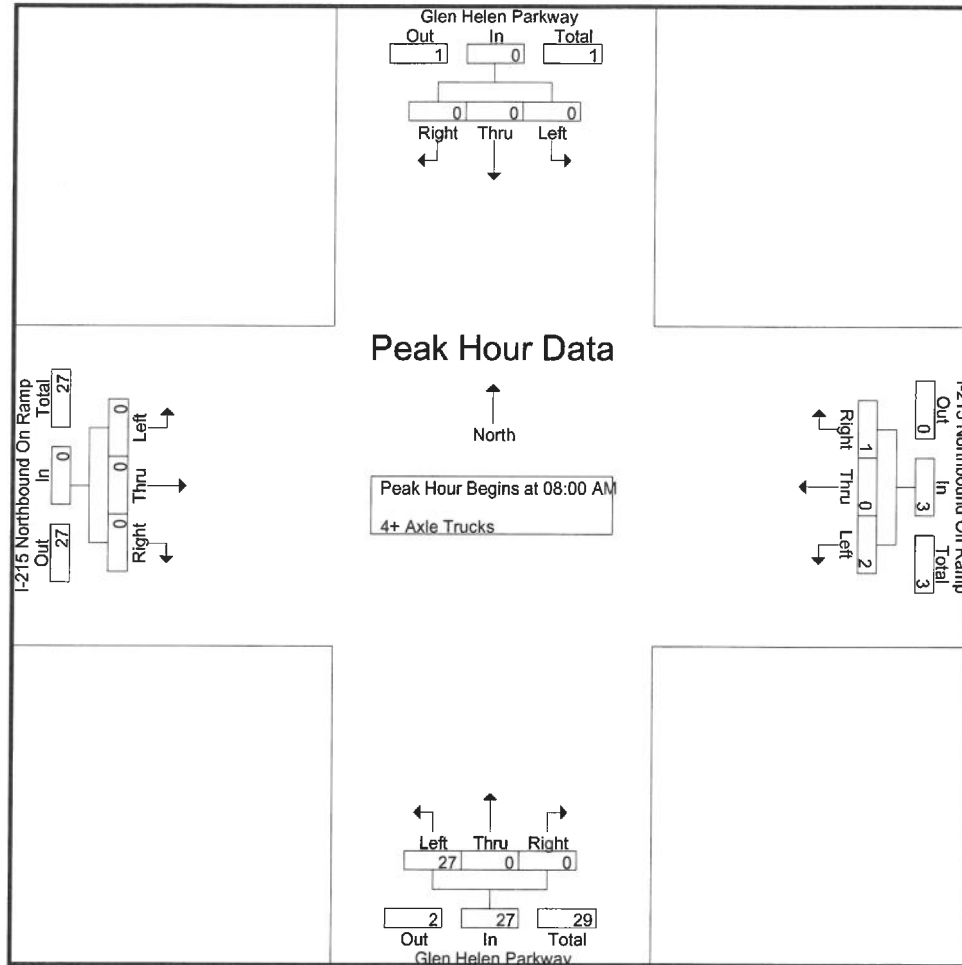
Start Time	Glen Helen Parkway Southbound				I-215 Northbound Off Ramp Westbound				Glen Helen Parkway Northbound				I-215 Northbound On Ramp Eastbound				Int. Total
	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	
07:00 AM	0	0	0	0	2	1	0	3	7	0	0	7	0	0	0	0	10
07:15 AM	0	0	2	2	1	1	0	2	7	0	0	7	0	0	0	0	11
07:30 AM	0	0	0	0	0	0	0	0	4	0	0	4	0	0	0	0	4
07:45 AM	0	0	0	0	1	0	0	1	9	0	0	9	0	0	0	0	10
Total	0	0	2	2	4	2	0	6	27	0	0	27	0	0	0	0	35
08:00 AM	0	0	0	0	1	0	0	1	5	0	0	5	0	0	0	0	6
08:15 AM	0	0	0	0	0	0	0	0	3	0	0	3	0	0	0	0	3
08:30 AM	0	0	0	0	1	0	1	2	14	0	0	14	0	0	0	0	16
08:45 AM	0	0	0	0	0	0	0	0	5	0	0	5	0	0	0	0	5
Total	0	0	0	0	2	0	1	3	27	0	0	27	0	0	0	0	30
Grand Total	0	0	2	2	6	2	1	9	54	0	0	54	0	0	0	0	65
Apprch %	0	0	100		66.7	22.2	11.1		100	0	0		0	0	0		
Total %	0	0	3.1	3.1	9.2	3.1	1.5	13.8	83.1	0	0	83.1	0	0	0	0	

	Glen Helen Parkway Southbound				I-215 Northbound Off Ramp Westbound				Glen Helen Parkway Northbound				I-215 Northbound On Ramp Eastbound				
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
Peak Hour Analysis From 08:00 AM to 08:45 AM - Peak 1 of 1																	
Peak Hour for Entire Intersection Begins at 08:00 AM																	
08:00 AM	0	0	0	0	1	0	0	1	5	0	0	5	0	0	0	0	6
08:15 AM	0	0	0	0	0	0	0	0	3	0	0	3	0	0	0	0	3
08:30 AM	0	0	0	0	1	0	1	2	14	0	0	14	0	0	0	0	16
08:45 AM	0	0	0	0	0	0	0	0	5	0	0	5	0	0	0	0	5
Total Volume	0	0	0	0	2	0	1	3	27	0	0	27	0	0	0	0	30
% App. Total	0	0	0		66.7	0	33.3		100	0	0		0	0	0		
PHF	.000	.000	.000	.000	.500	.000	.250	.375	.482	.000	.000	.482	.000	.000	.000	.000	.469

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County of San Bernardino
N/S: Glen Helen Parkway
E/W: I-215 Northbound Ramps
Weather: Clear

File Name : 01_CSB_GH_215N AM
Site Code : 00324507
Start Date : 5/21/2024
Page No : 2



Peak Hour Analysis From 08:00 AM to 08:45 AM - Peak 1 of 1
Peak Hour for Each Approach Begins at:

	08:00 AM				08:00 AM				08:00 AM				08:00 AM			
+0 mins.	0	0	0	0	1	0	0	1	5	0	0	5	0	0	0	0
+15 mins.	0	0	0	0	0	0	0	0	3	0	0	3	0	0	0	0
+30 mins.	0	0	0	0	1	0	1	2	14	0	0	14	0	0	0	0
+45 mins.	0	0	0	0	0	0	0	0	5	0	0	5	0	0	0	0
Total Volume	0	0	0	0	2	0	1	3	27	0	0	27	0	0	0	0
% App. Total	0	0	0	0	66.7	0	33.3		100	0	0		0	0	0	
PHF	.000	.000	.000	.000	.500	.000	.250	.375	.482	.000	.000	.482	.000	.000	.000	.000

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County of San Bernardino
N/S: Glen Helen Parkway
E/W: I-215 Northbound Ramps
Weather: Clear

File Name : 01_CSB_GH_215N PM
Site Code : 00324507
Start Date : 5/21/2024
Page No : 1

Groups Printed- Passenger Vehicles - Large 2 Axle Vehicles - 3 Axle Vehicles - 4+ Axle Trucks

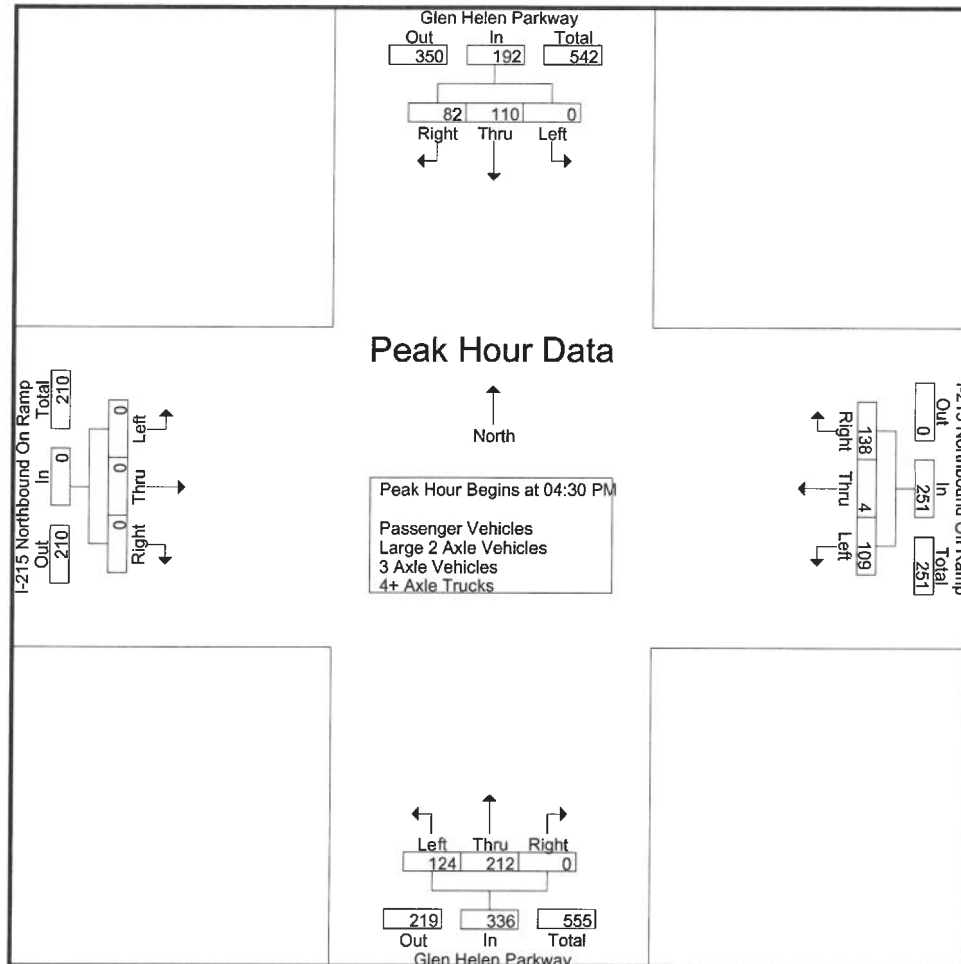
	Glen Helen Parkway Southbound				I-215 Northbound Off Ramp Westbound				Glen Helen Parkway Northbound				I-215 Northbound On Ramp Eastbound				
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
04:00 PM	0	28	31	59	37	2	32	71	24	42	0	66	0	0	0	0	196
04:15 PM	0	20	15	35	26	0	32	58	26	47	0	73	0	0	0	0	166
04:30 PM	0	24	21	45	38	1	40	79	30	59	0	89	0	0	0	0	213
04:45 PM	0	22	18	40	24	1	42	67	22	46	0	68	0	0	0	0	175
Total	0	94	85	179	125	4	146	275	102	194	0	296	0	0	0	0	750
05:00 PM	0	28	16	44	21	2	27	50	36	47	0	83	0	0	0	0	177
05:15 PM	0	36	27	63	26	0	29	55	36	60	0	96	0	0	0	0	214
05:30 PM	0	21	10	31	25	2	37	64	39	44	0	83	0	0	0	0	178
05:45 PM	0	24	22	46	22	1	48	71	28	43	0	71	0	0	0	0	188
Total	0	109	75	184	94	5	141	240	139	194	0	333	0	0	0	0	757
Grand Total	0	203	160	363	219	9	287	515	241	388	0	629	0	0	0	0	1507
Apprch %	0	55.9	44.1		42.5	1.7	55.7		38.3	61.7	0		0	0	0		
Total %	0	13.5	10.6	24.1	14.5	0.6	19	34.2	16	25.7	0	41.7	0	0	0	0	
Passenger Vehicles	0	196	155	351	200	9	282	491	195	377	0	572	0	0	0	0	1414
% Passenger Vehicles	0	96.6	96.9	96.7	91.3	100	98.3	95.3	80.9	97.2	0	90.9	0	0	0	0	93.8
Large 2 Axle Vehicles	0	6	3	9	8	0	4	12	7	9	0	16	0	0	0	0	37
% Large 2 Axle Vehicles	0	3	1.9	2.5	3.7	0	1.4	2.3	2.9	2.3	0	2.5	0	0	0	0	2.5
3 Axle Vehicles	0	0	0	0	3	0	1	4	4	0	0	4	0	0	0	0	8
% 3 Axle Vehicles	0	0	0	0	1.4	0	0.3	0.8	1.7	0	0	0.6	0	0	0	0	0.5
4+ Axle Trucks	0	1	2	3	8	0	0	8	35	2	0	37	0	0	0	0	48
% 4+ Axle Trucks	0	0.5	1.2	0.8	3.7	0	0	1.6	14.5	0.5	0	5.9	0	0	0	0	3.2

	Glen Helen Parkway Southbound				I-215 Northbound Off Ramp Westbound				Glen Helen Parkway Northbound				I-215 Northbound On Ramp Eastbound				
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
Peak Hour Analysis From 04:00 PM to 05:45 PM - Peak 1 of 1																	
Peak Hour for Entire Intersection Begins at 04:30 PM																	
04:30 PM	0	24	21	45	38	1	40	79	30	59	0	89	0	0	0	0	213
04:45 PM	0	22	18	40	24	1	42	67	22	46	0	68	0	0	0	0	175
05:00 PM	0	28	16	44	21	2	27	50	36	47	0	83	0	0	0	0	177
05:15 PM	0	36	27	63	26	0	29	55	36	60	0	96	0	0	0	0	214
Total Volume	0	110	82	192	109	4	138	251	124	212	0	336	0	0	0	0	779
% App. Total	0	57.3	42.7		43.4	1.6	55		36.9	63.1	0		0	0	0		
PHF	.000	.764	.759	.762	.717	.500	.821	.794	.861	.883	.000	.875	.000	.000	.000	.000	.910

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County of San Bernardino
N/S: Glen Helen Parkway
E/W: I-215 Northbound Ramps
Weather: Clear

File Name : 01_CSB_GH_215N PM
Site Code : 00324507
Start Date : 5/21/2024
Page No : 2



Peak Hour Analysis From 04:00 PM to 05:45 PM - Peak 1 of 1

Peak Hour for Each Approach Begins at:

	04:30 PM				04:00 PM				04:30 PM				04:00 PM			
+0 mins.	0	24	21	45	37	2	32	71	30	59	0	89	0	0	0	0
+15 mins.	0	22	18	40	26	0	32	58	22	46	0	68	0	0	0	0
+30 mins.	0	28	16	44	38	1	40	79	36	47	0	83	0	0	0	0
+45 mins.	0	36	27	63	24	1	42	67	36	60	0	96	0	0	0	0
Total Volume	0	110	82	192	125	4	146	275	124	212	0	336	0	0	0	0
% App. Total	0	57.3	42.7		45.5	1.5	53.1		36.9	63.1	0		0	0	0	
PHF	.000	.764	.759	.762	.822	.500	.869	.870	.861	.883	.000	.875	.000	.000	.000	.000

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County of San Bernardino
N/S: Glen Helen Parkway
E/W: I-215 Northbound Ramps
Weather: Clear

File Name : 01_CSB_GH_215N PM
Site Code : 00324507
Start Date : 5/21/2024
Page No : 1

Groups Printed- Passenger Vehicles

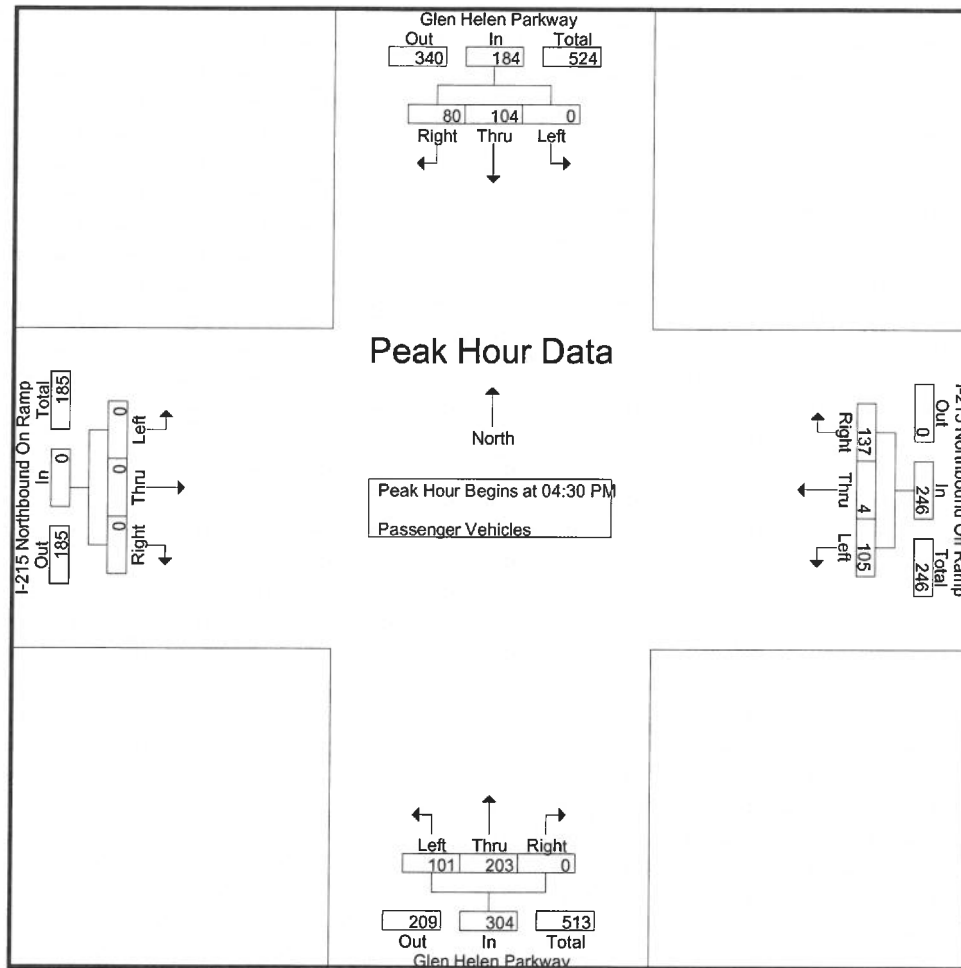
	Glen Helen Parkway Southbound				I-215 Northbound Off Ramp Westbound				Glen Helen Parkway Northbound				I-215 Northbound On Ramp Eastbound				
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
04:00 PM	0	28	29	57	30	2	31	63	19	41	0	60	0	0	0	0	180
04:15 PM	0	19	14	33	24	0	29	53	21	46	0	67	0	0	0	0	153
04:30 PM	0	21	21	42	37	1	40	78	26	55	0	81	0	0	0	0	201
04:45 PM	0	21	17	38	22	1	41	64	15	44	0	59	0	0	0	0	161
Total	0	89	81	170	113	4	141	258	81	186	0	267	0	0	0	0	695
05:00 PM	0	27	15	42	20	2	27	49	27	46	0	73	0	0	0	0	164
05:15 PM	0	35	27	62	26	0	29	55	33	58	0	91	0	0	0	0	208
05:30 PM	0	21	10	31	21	2	37	60	33	44	0	77	0	0	0	0	168
05:45 PM	0	24	22	46	20	1	48	69	21	43	0	64	0	0	0	0	179
Total	0	107	74	181	87	5	141	233	114	191	0	305	0	0	0	0	719
Grand Total	0	196	155	351	200	9	282	491	195	377	0	572	0	0	0	0	1414
Apprch %	0	55.8	44.2		40.7	1.8	57.4		34.1	65.9	0		0	0	0		
Total %	0	13.9	11	24.8	14.1	0.6	19.9	34.7	13.8	26.7	0	40.5	0	0	0	0	

	Glen Helen Parkway Southbound				I-215 Northbound Off Ramp Westbound				Glen Helen Parkway Northbound				I-215 Northbound On Ramp Eastbound				
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
Peak Hour Analysis From 04:30 PM to 05:15 PM - Peak 1 of 1																	
Peak Hour for Entire Intersection Begins at 04:30 PM																	
04:30 PM	0	21	21	42	37	1	40	78	26	55	0	81	0	0	0	0	201
04:45 PM	0	21	17	38	22	1	41	64	15	44	0	59	0	0	0	0	161
05:00 PM	0	27	15	42	20	2	27	49	27	46	0	73	0	0	0	0	164
05:15 PM	0	35	27	62	26	0	29	55	33	58	0	91	0	0	0	0	208
Total Volume	0	104	80	184	105	4	137	246	101	203	0	304	0	0	0	0	734
% App. Total	0	56.5	43.5		42.7	1.6	55.7		33.2	66.8	0		0	0	0		
PHF	.000	.743	.741	.742	.709	.500	.835	.788	.765	.875	.000	.835	.000	.000	.000	.000	.882

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County of San Bernardino
N/S: Glen Helen Parkway
E/W: I-215 Northbound Ramps
Weather: Clear

File Name : 01_CSB_GH_215N PM
Site Code : 00324507
Start Date : 5/21/2024
Page No : 2



Peak Hour Analysis From 04:30 PM to 05:15 PM - Peak 1 of 1

Peak Hour for Each Approach Begins at:

	04:30 PM				04:30 PM				04:30 PM				04:30 PM			
+0 mins.	0	21	21	42	37	1	40	78	26	55	0	81	0	0	0	0
+15 mins.	0	21	17	38	22	1	41	64	15	44	0	59	0	0	0	0
+30 mins.	0	27	15	42	20	2	27	49	27	46	0	73	0	0	0	0
+45 mins.	0	35	27	62	26	0	29	55	33	58	0	91	0	0	0	0
Total Volume	0	104	80	184	105	4	137	246	101	203	0	304	0	0	0	0
% App. Total	0	56.5	43.5		42.7	1.6	55.7		33.2	66.8	0		0	0	0	
PHF	.000	.743	.741	.742	.709	.500	.835	.788	.765	.875	.000	.835	.000	.000	.000	.000

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County of San Bernardino
N/S: Glen Helen Parkway
E/W: I-215 Northbound Ramps
Weather: Clear

File Name : 01_CSB_GH_215N PM
Site Code : 00324507
Start Date : 5/21/2024
Page No : 1

Groups Printed- Large 2 Axle Vehicles

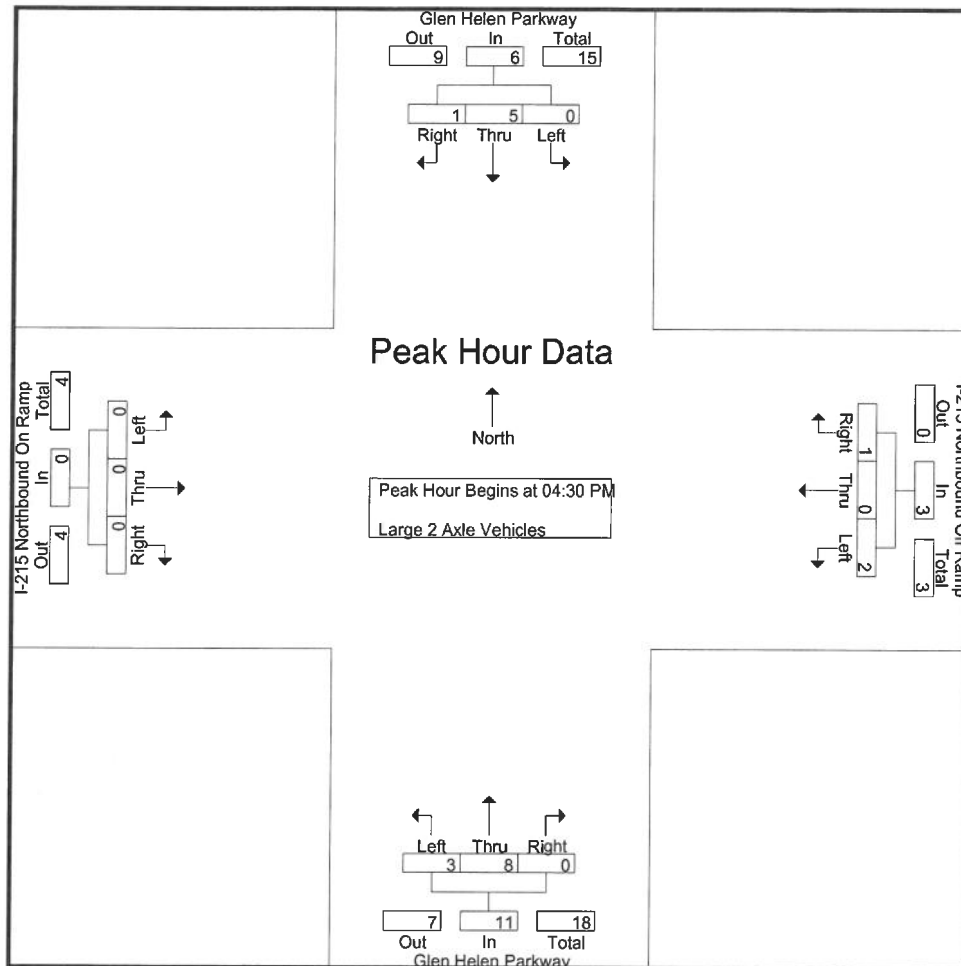
	Glen Helen Parkway Southbound				I-215 Northbound Off Ramp Westbound				Glen Helen Parkway Northbound				I-215 Northbound On Ramp Eastbound				
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
04:00 PM	0	0	2	2	3	0	1	4	3	0	0	3	0	0	0	0	9
04:15 PM	0	1	0	1	2	0	2	4	0	1	0	1	0	0	0	0	6
04:30 PM	0	2	0	2	0	0	0	0	0	4	0	4	0	0	0	0	6
04:45 PM	0	1	1	2	2	0	1	3	1	1	0	2	0	0	0	0	7
Total	0	4	3	7	7	0	4	11	4	6	0	10	0	0	0	0	28
05:00 PM	0	1	0	1	0	0	0	0	1	1	0	2	0	0	0	0	3
05:15 PM	0	1	0	1	0	0	0	0	1	2	0	3	0	0	0	0	4
05:30 PM	0	0	0	0	0	0	0	0	1	0	0	1	0	0	0	0	1
05:45 PM	0	0	0	0	1	0	0	1	0	0	0	0	0	0	0	0	1
Total	0	2	0	2	1	0	0	1	3	3	0	6	0	0	0	0	9
Grand Total	0	6	3	9	8	0	4	12	7	9	0	16	0	0	0	0	37
Apprch %	0	66.7	33.3		66.7	0	33.3		43.8	56.2	0		0	0	0		
Total %	0	16.2	8.1	24.3	21.6	0	10.8	32.4	18.9	24.3	0	43.2	0	0	0	0	

	Glen Helen Parkway Southbound				I-215 Northbound Off Ramp Westbound				Glen Helen Parkway Northbound				I-215 Northbound On Ramp Eastbound				
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
Peak Hour Analysis From 04:30 PM to 05:15 PM - Peak 1 of 1																	
Peak Hour for Entire Intersection Begins at 04:30 PM																	
04:30 PM	0	2	0	2	0	0	0	0	0	4	0	4	0	0	0	0	6
04:45 PM	0	1	1	2	2	0	1	3	1	1	0	2	0	0	0	0	7
05:00 PM	0	1	0	1	0	0	0	0	1	1	0	2	0	0	0	0	3
05:15 PM	0	1	0	1	0	0	0	0	1	2	0	3	0	0	0	0	4
Total Volume	0	5	1	6	2	0	1	3	3	8	0	11	0	0	0	0	20
% App. Total	0	83.3	16.7		66.7	0	33.3		27.3	72.7	0		0	0	0		
PHF	.000	.625	.250	.750	.250	.000	.250	.250	.750	.500	.000	.688	.000	.000	.000	.000	.714

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County of San Bernardino
N/S: Glen Helen Parkway
E/W: I-215 Northbound Ramps
Weather: Clear

File Name : 01_CSB_GH_215N PM
Site Code : 00324507
Start Date : 5/21/2024
Page No : 2



Peak Hour Analysis From 04:30 PM to 05:15 PM - Peak 1 of 1
Peak Hour for Each Approach Begins at:

	04:30 PM				04:30 PM				04:30 PM				04:30 PM			
+0 mins.	0	2	0	2	0	0	0	0	0	4	0	4	0	0	0	0
+15 mins.	0	1	1	2	2	0	1	3	1	1	0	2	0	0	0	0
+30 mins.	0	1	0	1	0	0	0	0	1	1	0	2	0	0	0	0
+45 mins.	0	1	0	1	0	0	0	0	1	2	0	3	0	0	0	0
Total Volume	0	5	1	6	2	0	1	3	3	8	0	11	0	0	0	0
% App. Total	0	83.3	16.7		66.7	0	33.3		27.3	72.7	0		0	0	0	
PHF	.000	.625	.250	.750	.250	.000	.250	.250	.750	.500	.000	.688	.000	.000	.000	.000

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County of San Bernardino
N/S: Glen Helen Parkway
E/W: I-215 Northbound Ramps
Weather: Clear

File Name : 01_CSB_GH_215N PM
Site Code : 00324507
Start Date : 5/21/2024
Page No : 1

Groups Printed- 3 Axle Vehicles

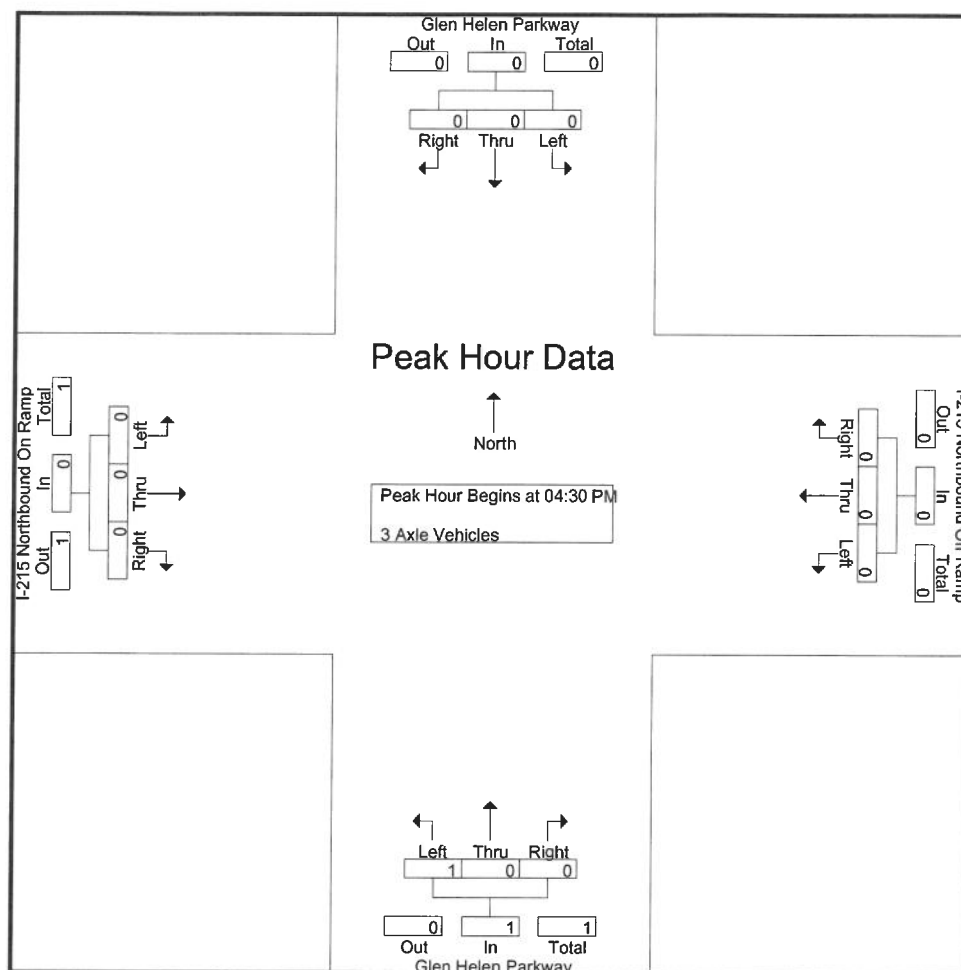
	Glen Helen Parkway Southbound				I-215 Northbound Off Ramp Westbound				Glen Helen Parkway Northbound				I-215 Northbound On Ramp Eastbound				
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
04:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04:15 PM	0	0	0	0	0	0	1	1	1	0	0	1	0	0	0	0	2
04:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total	0	0	0	0	0	0	1	1	1	0	0	1	0	0	0	0	2
05:00 PM	0	0	0	0	0	0	0	0	1	0	0	1	0	0	0	0	1
05:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
05:30 PM	0	0	0	0	2	0	0	2	0	0	0	0	0	0	0	0	2
05:45 PM	0	0	0	0	1	0	0	1	2	0	0	2	0	0	0	0	3
Total	0	0	0	0	3	0	0	3	3	0	0	3	0	0	0	0	6
Grand Total	0	0	0	0	3	0	1	4	4	0	0	4	0	0	0	0	8
Apprch %	0	0	0		75	0	25		100	0	0		0	0	0		
Total %	0	0	0	0	37.5	0	12.5	50	50	0	0	50	0	0	0	0	

	Glen Helen Parkway Southbound				I-215 Northbound Off Ramp Westbound				Glen Helen Parkway Northbound				I-215 Northbound On Ramp Eastbound				
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
Peak Hour Analysis From 04:30 PM to 05:15 PM - Peak 1 of 1																	
Peak Hour for Entire Intersection Begins at 04:30 PM																	
04:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
05:00 PM	0	0	0	0	0	0	0	0	1	0	0	1	0	0	0	0	1
05:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total Volume	0	0	0	0	0	0	0	0	1	0	0	1	0	0	0	0	1
% App. Total	0	0	0		0	0	0		100	0	0		0	0	0		
PHF	.000	.000	.000	.000	.000	.000	.000	.000	.250	.000	.000	.250	.000	.000	.000	.000	.250

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County of San Bernardino
N/S: Glen Helen Parkway
E/W: I-215 Northbound Ramps
Weather: Clear

File Name : 01_CSB_GH_215N PM
Site Code : 00324507
Start Date : 5/21/2024
Page No : 2



Peak Hour Analysis From 04:30 PM to 05:15 PM - Peak 1 of 1
Peak Hour for Each Approach Begins at:

	04:30 PM				04:30 PM				04:30 PM				04:30 PM			
+0 mins.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
+15 mins.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
+30 mins.	0	0	0	0	0	0	0	0	1	0	0	1	0	0	0	0
+45 mins.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total Volume	0	0	0	0	0	0	0	0	1	0	0	1	0	0	0	0
% App. Total	0	0	0	0	0	0	0	0	100	0	0	100	0	0	0	0
PHF	.000	.000	.000	.000	.000	.000	.000	.000	.250	.000	.000	.250	.000	.000	.000	.000

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County of San Bernardino
N/S: Glen Helen Parkway
E/W: I-215 Northbound Ramps
Weather: Clear

File Name : 01_CSB_GH_215N PM
Site Code : 00324507
Start Date : 5/21/2024
Page No : 1

Groups Printed- 4+ Axle Trucks

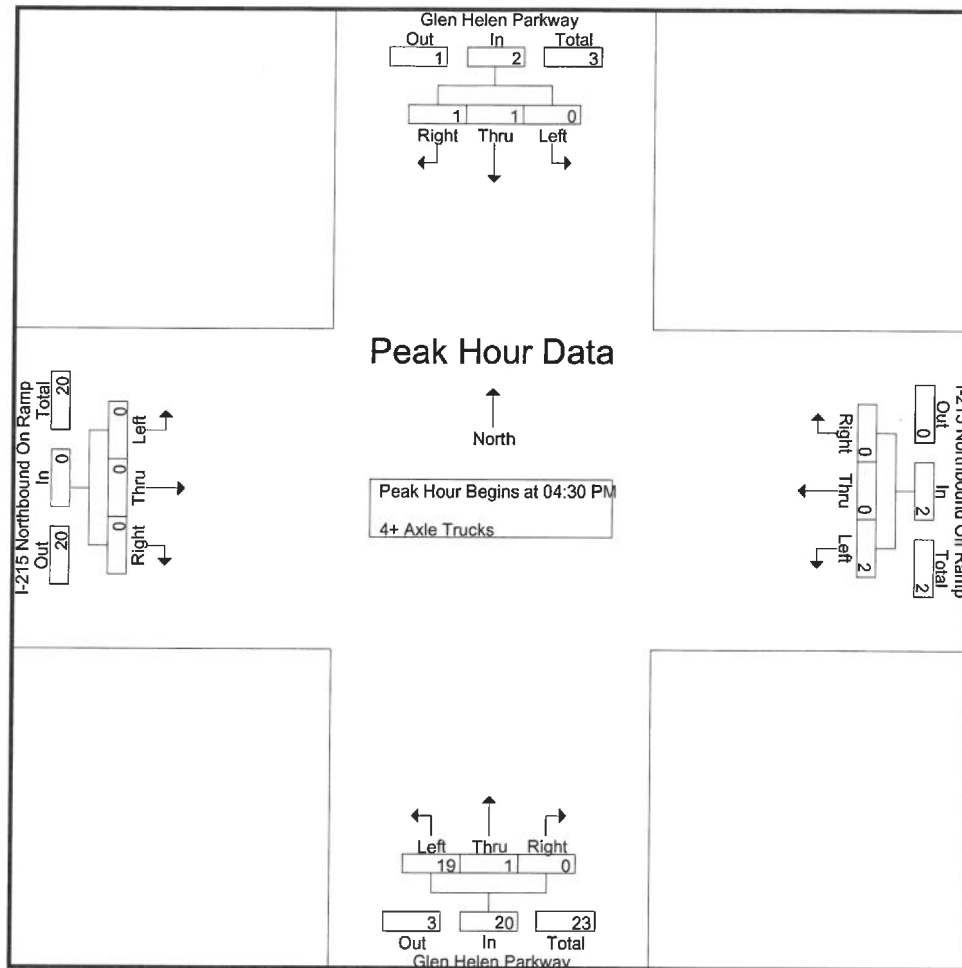
	Glen Helen Parkway Southbound				I-215 Northbound Off Ramp Westbound				Glen Helen Parkway Northbound				I-215 Northbound On Ramp Eastbound				
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
04:00 PM	0	0	0	0	4	0	0	4	2	1	0	3	0	0	0	0	7
04:15 PM	0	0	1	1	0	0	0	0	4	0	0	4	0	0	0	0	5
04:30 PM	0	1	0	1	1	0	0	1	4	0	0	4	0	0	0	0	6
04:45 PM	0	0	0	0	0	0	0	0	6	1	0	7	0	0	0	0	7
Total	0	1	1	2	5	0	0	5	16	2	0	18	0	0	0	0	25
05:00 PM	0	0	1	1	1	0	0	1	7	0	0	7	0	0	0	0	9
05:15 PM	0	0	0	0	0	0	0	0	2	0	0	2	0	0	0	0	2
05:30 PM	0	0	0	0	2	0	0	2	5	0	0	5	0	0	0	0	7
05:45 PM	0	0	0	0	0	0	0	0	5	0	0	5	0	0	0	0	5
Total	0	0	1	1	3	0	0	3	19	0	0	19	0	0	0	0	23
Grand Total	0	1	2	3	8	0	0	8	35	2	0	37	0	0	0	0	48
Apprch %	0	33.3	66.7		100	0	0		94.6	5.4	0		0	0	0		
Total %	0	2.1	4.2	6.2	16.7	0	0	16.7	72.9	4.2	0	77.1	0	0	0	0	

	Glen Helen Parkway Southbound				I-215 Northbound Off Ramp Westbound				Glen Helen Parkway Northbound				I-215 Northbound On Ramp Eastbound				
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
Peak Hour Analysis From 04:30 PM to 05:15 PM - Peak 1 of 1																	
Peak Hour for Entire Intersection Begins at 04:30 PM																	
04:30 PM	0	1	0	1	1	0	0	1	4	0	0	4	0	0	0	0	6
04:45 PM	0	0	0	0	0	0	0	0	6	1	0	7	0	0	0	0	7
05:00 PM	0	0	1	1	1	0	0	1	7	0	0	7	0	0	0	0	9
05:15 PM	0	0	0	0	0	0	0	0	2	0	0	2	0	0	0	0	2
Total Volume	0	1	1	2	2	0	0	2	19	1	0	20	0	0	0	0	24
% App. Total	0	50	50		100	0	0		95	5	0		0	0	0		
PHF	.000	.250	.250	.500	.500	.000	.000	.500	.679	.250	.000	.714	.000	.000	.000	.000	.667

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County of San Bernardino
N/S: Glen Helen Parkway
E/W: I-215 Northbound Ramps
Weather: Clear

File Name : 01_CSB_GH_215N PM
Site Code : 00324507
Start Date : 5/21/2024
Page No : 2



Peak Hour Analysis From 04:30 PM to 05:15 PM - Peak 1 of 1
Peak Hour for Each Approach Begins at:

	04:30 PM				04:30 PM				04:30 PM				04:30 PM			
+0 mins.	0	1	0	1	1	0	0	1	4	0	0	4	0	0	0	0
+15 mins.	0	0	0	0	0	0	0	0	6	1	0	7	0	0	0	0
+30 mins.	0	0	1	1	1	0	0	1	7	0	0	7	0	0	0	0
+45 mins.	0	0	0	0	0	0	0	0	2	0	0	2	0	0	0	0
Total Volume	0	1	1	2	2	0	0	2	19	1	0	20	0	0	0	0
% App. Total	0	50	50		100	0	0		95	5	0		0	0	0	
PHF	.000	.250	.250	.500	.500	.000	.000	.500	.679	.250	.000	.714	.000	.000	.000	.000

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County of San Bernardino
N/S: Glen Helen Parkway
E/W: I-215 Southbound Ramps
Weather: Clear

File Name : 02_CSB_GH_215S AM
Site Code : 00324507
Start Date : 5/21/2024
Page No : 1

Groups Printed- Passenger Vehicles - Large 2 Axle Vehicles - 3 Axle Vehicles - 4+ Axle Trucks

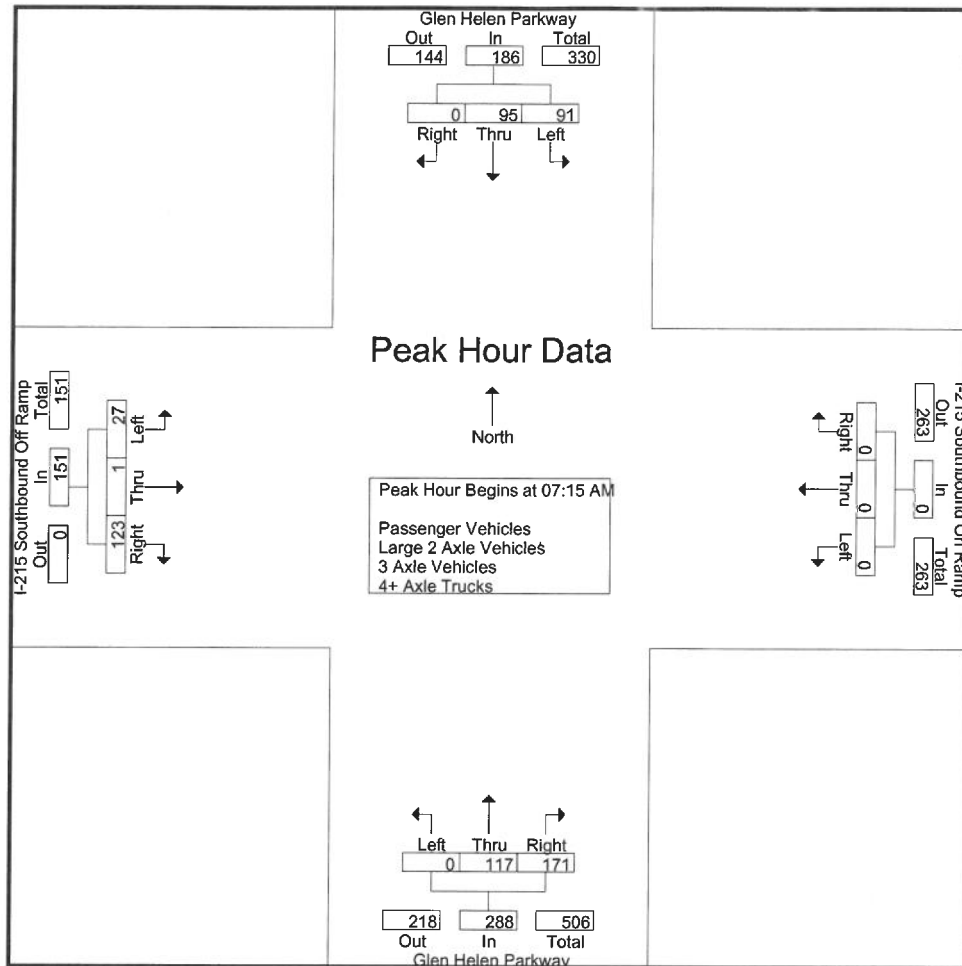
	Glen Helen Parkway Southbound				I-215 Southbound On Ramp Westbound				Glen Helen Parkway Northbound				I-215 Southbound Off Ramp Eastbound				
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
07:00 AM	26	19	0	45	0	0	0	0	0	32	43	75	5	1	22	28	148
07:15 AM	18	32	0	50	0	0	0	0	0	31	53	84	5	0	35	40	174
07:30 AM	21	15	0	36	0	0	0	0	0	23	35	58	3	0	30	33	127
07:45 AM	21	25	0	46	0	0	0	0	0	31	52	83	7	0	30	37	166
Total	86	91	0	177	0	0	0	0	0	117	183	300	20	1	117	138	615
08:00 AM	31	23	0	54	0	0	0	0	0	32	31	63	12	1	28	41	158
08:15 AM	26	21	0	47	0	0	0	0	0	32	26	58	14	1	30	45	150
08:30 AM	28	18	0	46	0	0	0	0	0	42	23	65	11	0	24	35	146
08:45 AM	32	28	0	60	0	0	0	0	0	20	15	35	6	0	23	29	124
Total	117	90	0	207	0	0	0	0	0	126	95	221	43	2	105	150	578
Grand Total	203	181	0	384	0	0	0	0	0	243	278	521	63	3	222	288	1193
Apprch %	52.9	47.1	0		0	0	0		0	46.6	53.4		21.9	1	77.1		
Total %	17	15.2	0	32.2	0	0	0	0	0	20.4	23.3	43.7	5.3	0.3	18.6	24.1	
Passenger Vehicles	187	153	0	340	0	0	0	0	0	166	250	416	58	2	184	244	1000
% Passenger Vehicles	92.1	84.5	0	88.5	0	0	0	0	0	68.3	89.9	79.8	92.1	66.7	82.9	84.7	83.8
Large 2 Axle Vehicles	16	15	0	31	0	0	0	0	0	20	8	28	2	0	5	7	66
% Large 2 Axle Vehicles	7.9	8.3	0	8.1	0	0	0	0	0	8.2	2.9	5.4	3.2	0	2.3	2.4	5.5
3 Axle Vehicles	0	7	0	7	0	0	0	0	0	5	2	7	1	0	6	7	21
% 3 Axle Vehicles	0	3.9	0	1.8	0	0	0	0	0	2.1	0.7	1.3	1.6	0	2.7	2.4	1.8
4+ Axle Trucks	0	6	0	6	0	0	0	0	0	52	18	70	2	1	27	30	106
% 4+ Axle Trucks	0	3.3	0	1.6	0	0	0	0	0	21.4	6.5	13.4	3.2	33.3	12.2	10.4	8.9

	Glen Helen Parkway Southbound				I-215 Southbound On Ramp Westbound				Glen Helen Parkway Northbound				I-215 Southbound Off Ramp Eastbound				
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
Peak Hour Analysis From 07:00 AM to 08:45 AM - Peak 1 of 1																	
Peak Hour for Entire Intersection Begins at 07:15 AM																	
07:15 AM	18	32	0	50	0	0	0	0	0	31	53	84	5	0	35	40	174
07:30 AM	21	15	0	36	0	0	0	0	0	23	35	58	3	0	30	33	127
07:45 AM	21	25	0	46	0	0	0	0	0	31	52	83	7	0	30	37	166
08:00 AM	31	23	0	54	0	0	0	0	0	32	31	63	12	1	28	41	158
Total Volume	91	95	0	186	0	0	0	0	0	117	171	288	27	1	123	151	625
% App. Total	48.9	51.1	0		0	0	0		0	40.6	59.4		17.9	0.7	81.5		
PHF	.734	.742	.000	.861	.000	.000	.000	.000	.000	.914	.807	.857	.563	.250	.879	.921	.898

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County of San Bernardino
N/S: Glen Helen Parkway
E/W: I-215 Southbound Ramps
Weather: Clear

File Name : 02_CSB_GH_215S AM
Site Code : 00324507
Start Date : 5/21/2024
Page No : 2



Peak Hour Analysis From 07:00 AM to 08:45 AM - Peak 1 of 1
Peak Hour for Each Approach Begins at:

	08:00 AM				07:00 AM				07:00 AM				07:45 AM			
+0 mins.	31	23	0	54	0	0	0	0	0	32	43	75	7	0	30	37
+15 mins.	26	21	0	47	0	0	0	0	0	31	53	84	12	1	28	41
+30 mins.	28	18	0	46	0	0	0	0	0	23	35	58	14	1	30	45
+45 mins.	32	28	0	60	0	0	0	0	0	31	52	83	11	0	24	35
Total Volume	117	90	0	207	0	0	0	0	0	117	183	300	44	2	112	158
% App. Total	56.5	43.5	0		0	0	0		0	39	61		27.8	1.3	70.9	
PHF	.914	.804	.000	.863	.000	.000	.000	.000	.000	.914	.863	.893	.786	.500	.933	.878

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County of San Bernardino
N/S: Glen Helen Parkway
E/W: I-215 Southbound Ramps
Weather: Clear

File Name : 02_CSB_GH_215S AM
Site Code : 00324507
Start Date : 5/21/2024
Page No : 1

Groups Printed- Passenger Vehicles

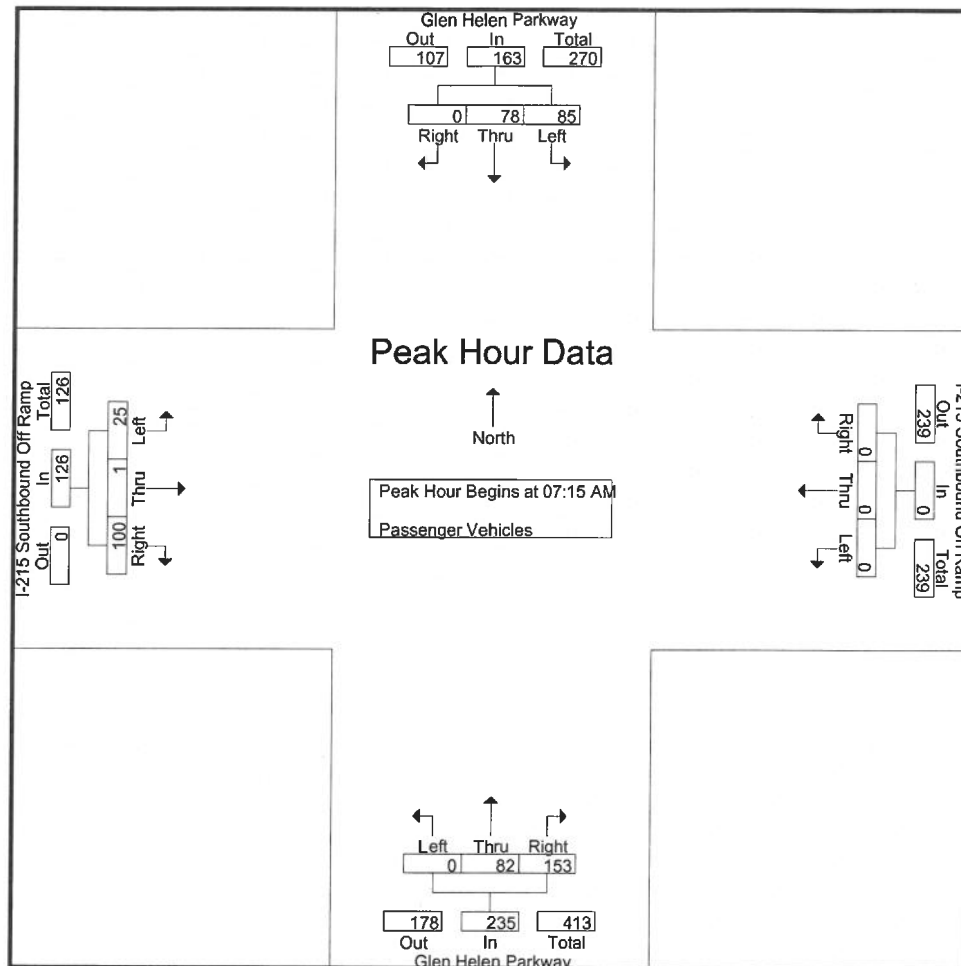
Start Time	Glen Helen Parkway Southbound				I-215 Southbound On Ramp Westbound				Glen Helen Parkway Northbound				I-215 Southbound Off Ramp Eastbound				Int. Total
	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	
07:00 AM	21	14	0	35	0	0	0	0	0	16	41	57	5	1	19	25	117
07:15 AM	18	22	0	40	0	0	0	0	0	22	46	68	5	0	29	34	142
07:30 AM	18	15	0	33	0	0	0	0	0	14	31	45	3	0	25	28	106
07:45 AM	20	22	0	42	0	0	0	0	0	21	47	68	7	0	23	30	140
Total	77	73	0	150	0	0	0	0	0	73	165	238	20	1	96	117	505
08:00 AM	29	19	0	48	0	0	0	0	0	25	29	54	10	1	23	34	136
08:15 AM	24	20	0	44	0	0	0	0	0	23	23	46	13	0	27	40	130
08:30 AM	25	16	0	41	0	0	0	0	0	29	22	51	9	0	20	29	121
08:45 AM	32	25	0	57	0	0	0	0	0	16	11	27	6	0	18	24	108
Total	110	80	0	190	0	0	0	0	0	93	85	178	38	1	88	127	495
Grand Total	187	153	0	340	0	0	0	0	0	166	250	416	58	2	184	244	1000
Apprch %	55	45	0		0	0	0		0	39.9	60.1		23.8	0.8	75.4		
Total %	18.7	15.3	0	34	0	0	0	0	0	16.6	25	41.6	5.8	0.2	18.4	24.4	

	Glen Helen Parkway Southbound				I-215 Southbound On Ramp Westbound				Glen Helen Parkway Northbound				I-215 Southbound Off Ramp Eastbound				
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
Peak Hour Analysis From 07:15 AM to 08:00 AM - Peak 1 of 1																	
Peak Hour for Entire Intersection Begins at 07:15 AM																	
07:15 AM	18	22	0	40	0	0	0	0	0	22	46	68	5	0	29	34	142
07:30 AM	18	15	0	33	0	0	0	0	0	14	31	45	3	0	25	28	106
07:45 AM	20	22	0	42	0	0	0	0	0	21	47	68	7	0	23	30	140
08:00 AM	29	19	0	48	0	0	0	0	0	25	29	54	10	1	23	34	136
Total Volume	85	78	0	163	0	0	0	0	0	82	153	235	25	1	100	126	524
% App. Total	52.1	47.9	0		0	0	0		0	34.9	65.1		19.8	0.8	79.4		
PHF	.733	.886	.000	.849	.000	.000	.000	.000	.000	.820	.814	.864	.625	.250	.862	.926	.923

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County of San Bernardino
N/S: Glen Helen Parkway
E/W: I-215 Southbound Ramps
Weather: Clear

File Name : 02_CSB_GH_215S AM
Site Code : 00324507
Start Date : 5/21/2024
Page No : 2



Peak Hour Analysis From 07:15 AM to 08:00 AM - Peak 1 of 1
Peak Hour for Each Approach Begins at:

	07:15 AM				07:15 AM				07:15 AM				07:15 AM			
+0 mins.	18	22	0	40	0	0	0	0	0	22	46	68	5	0	29	34
+15 mins.	18	15	0	33	0	0	0	0	0	14	31	45	3	0	25	28
+30 mins.	20	22	0	42	0	0	0	0	0	21	47	68	7	0	23	30
+45 mins.	29	19	0	48	0	0	0	0	0	25	29	54	10	1	23	34
Total Volume	85	78	0	163	0	0	0	0	0	82	153	235	25	1	100	126
% App. Total	52.1	47.9	0		0	0	0		0	34.9	65.1		19.8	0.8	79.4	
PHF	.733	.886	.000	.849	.000	.000	.000	.000	.000	.820	.814	.864	.625	.250	.862	.926

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County of San Bernardino
N/S: Glen Helen Parkway
E/W: I-215 Southbound Ramps
Weather: Clear

File Name : 02_CSB_GH_215S AM
Site Code : 00324507
Start Date : 5/21/2024
Page No : 1

Groups Printed- Large 2 Axle Vehicles

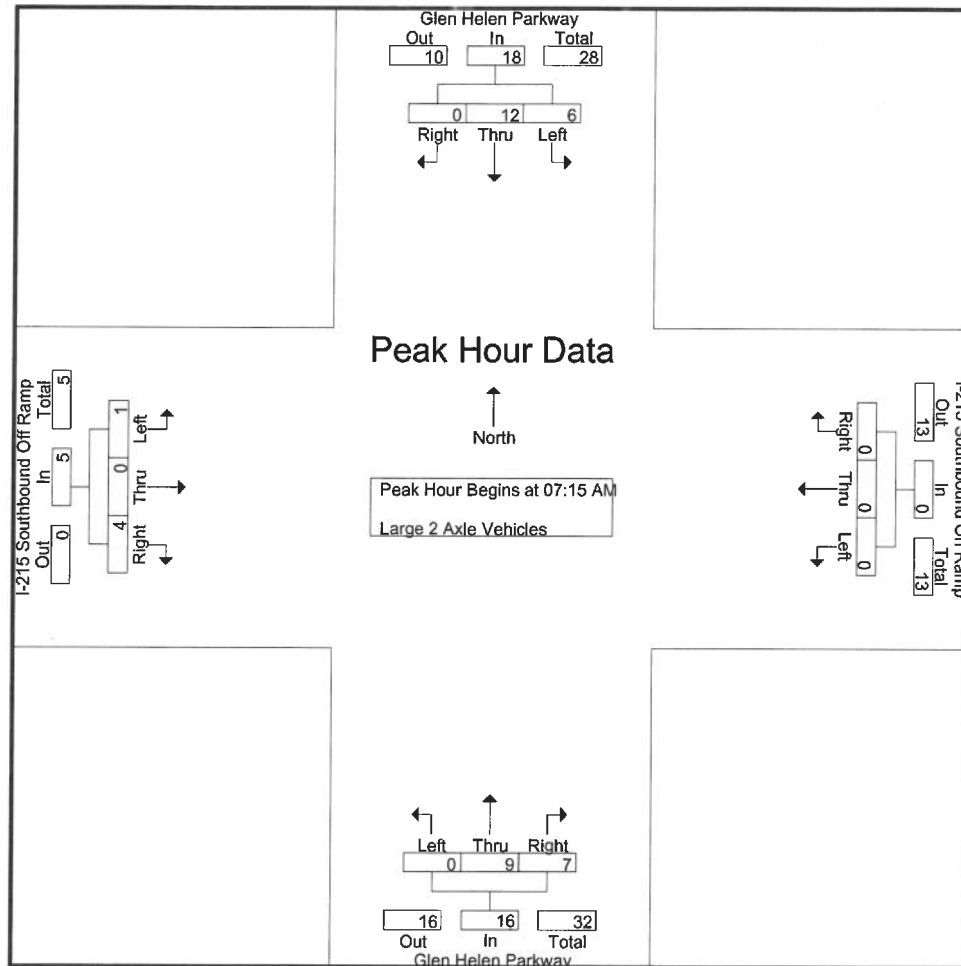
	Glen Helen Parkway Southbound				I-215 Southbound On Ramp Westbound				Glen Helen Parkway Northbound				I-215 Southbound Off Ramp Eastbound				
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
07:00 AM	5	3	0	8	0	0	0	0	0	7	0	7	0	0	0	0	15
07:15 AM	0	9	0	9	0	0	0	0	0	3	1	4	0	0	1	1	14
07:30 AM	3	0	0	3	0	0	0	0	0	4	0	4	0	0	0	0	7
07:45 AM	1	1	0	2	0	0	0	0	0	1	5	6	0	0	2	2	10
Total	9	13	0	22	0	0	0	0	0	15	6	21	0	0	3	3	46
08:00 AM	2	2	0	4	0	0	0	0	0	1	1	2	1	0	1	2	8
08:15 AM	2	0	0	2	0	0	0	0	0	4	1	5	1	0	0	1	8
08:30 AM	3	0	0	3	0	0	0	0	0	0	0	0	0	0	0	0	3
08:45 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1
Total	7	2	0	9	0	0	0	0	0	5	2	7	2	0	2	4	20
Grand Total	16	15	0	31	0	0	0	0	0	20	8	28	2	0	5	7	66
Apprch %	51.6	48.4	0		0	0	0		0	71.4	28.6		28.6	0	71.4		
Total %	24.2	22.7	0	47	0	0	0	0	0	30.3	12.1	42.4	3	0	7.6	10.6	

	Glen Helen Parkway Southbound				I-215 Southbound On Ramp Westbound				Glen Helen Parkway Northbound				I-215 Southbound Off Ramp Eastbound				
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
Peak Hour Analysis From 07:15 AM to 08:00 AM - Peak 1 of 1																	
Peak Hour for Entire Intersection Begins at 07:15 AM																	
07:15 AM	0	9	0	9	0	0	0	0	0	3	1	4	0	0	1	1	14
07:30 AM	3	0	0	3	0	0	0	0	0	4	0	4	0	0	0	0	7
07:45 AM	1	1	0	2	0	0	0	0	0	1	5	6	0	0	2	2	10
08:00 AM	2	2	0	4	0	0	0	0	0	1	1	2	1	0	1	2	8
Total Volume	6	12	0	18	0	0	0	0	0	9	7	16	1	0	4	5	39
% App. Total	33.3	66.7	0		0	0	0		0	56.2	43.8		20	0	80		
PHF	.500	.333	.000	.500	.000	.000	.000	.000	.000	.563	.350	.667	.250	.000	.500	.625	.696

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County of San Bernardino
N/S: Glen Helen Parkway
E/W: I-215 Southbound Ramps
Weather: Clear

File Name : 02_CSB_GH_215S AM
Site Code : 00324507
Start Date : 5/21/2024
Page No : 2



Peak Hour Analysis From 07:15 AM to 08:00 AM - Peak 1 of 1
Peak Hour for Each Approach Begins at:

	07:15 AM				07:15 AM				07:15 AM				07:15 AM			
+0 mins.	0	9	0	9	0	0	0	0	0	3	1	4	0	0	1	1
+15 mins.	3	0	0	3	0	0	0	0	0	4	0	4	0	0	0	0
+30 mins.	1	1	0	2	0	0	0	0	0	1	5	6	0	0	2	2
+45 mins.	2	2	0	4	0	0	0	0	0	1	1	2	1	0	1	2
Total Volume	6	12	0	18	0	0	0	0	0	9	7	16	1	0	4	5
% App. Total	33.3	66.7	0		0	0	0		0	56.2	43.8		20	0	80	
PHF	.500	.333	.000	.500	.000	.000	.000	.000	.000	.563	.350	.667	.250	.000	.500	.625

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County of San Bernardino
N/S: Glen Helen Parkway
E/W: I-215 Southbound Ramps
Weather: Clear

File Name : 02_CSB_GH_215S AM
Site Code : 00324507
Start Date : 5/21/2024
Page No : 1

Groups Printed- 3 Axle Vehicles

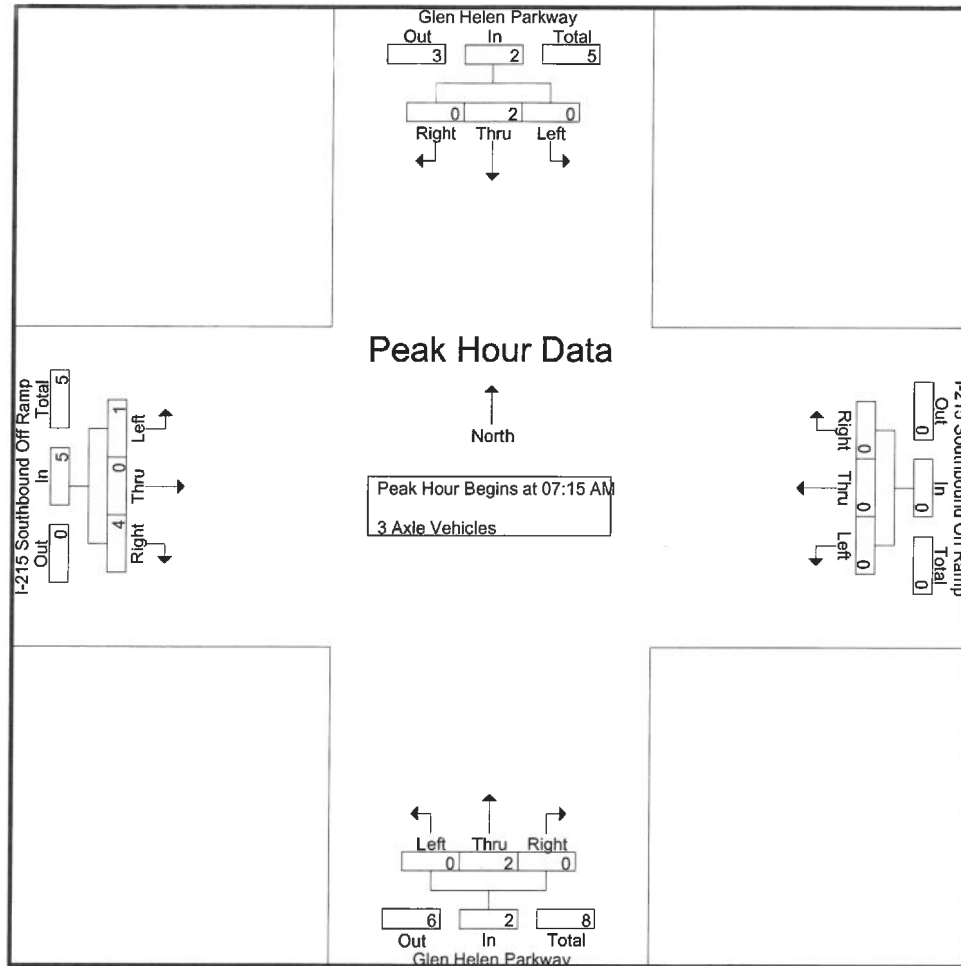
	Glen Helen Parkway Southbound				I-215 Southbound On Ramp Westbound				Glen Helen Parkway Northbound				I-215 Southbound Off Ramp Eastbound				
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
07:00 AM	0	0	0	0	0	0	0	0	0	1	0	1	0	0	0	0	1
07:15 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1
07:30 AM	0	0	0	0	0	0	0	0	0	1	0	1	0	0	1	1	2
07:45 AM	0	1	0	1	0	0	0	0	0	0	0	0	0	0	2	2	3
Total	0	1	0	1	0	0	0	0	0	2	0	2	0	0	4	4	7
08:00 AM	0	1	0	1	0	0	0	0	0	1	0	1	1	0	0	1	3
08:15 AM	0	1	0	1	0	0	0	0	0	1	1	2	0	0	0	0	3
08:30 AM	0	1	0	1	0	0	0	0	0	1	0	1	0	0	2	2	4
08:45 AM	0	3	0	3	0	0	0	0	0	0	1	1	0	0	0	0	4
Total	0	6	0	6	0	0	0	0	0	3	2	5	1	0	2	3	14
Grand Total	0	7	0	7	0	0	0	0	0	5	2	7	1	0	6	7	21
Apprch %	0	100	0		0	0	0		0	71.4	28.6		14.3	0	85.7		
Total %	0	33.3	0	33.3	0	0	0	0	0	23.8	9.5	33.3	4.8	0	28.6	33.3	

	Glen Helen Parkway Southbound				I-215 Southbound On Ramp Westbound				Glen Helen Parkway Northbound				I-215 Southbound Off Ramp Eastbound				
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
Peak Hour Analysis From 07:15 AM to 08:00 AM - Peak 1 of 1																	
Peak Hour for Entire Intersection Begins at 07:15 AM																	
07:15 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1
07:30 AM	0	0	0	0	0	0	0	0	0	1	0	1	0	0	1	1	2
07:45 AM	0	1	0	1	0	0	0	0	0	0	0	0	0	0	2	2	3
08:00 AM	0	1	0	1	0	0	0	0	0	1	0	1	1	0	0	1	3
Total Volume	0	2	0	2	0	0	0	0	0	2	0	2	1	0	4	5	9
% App. Total	0	100	0		0	0	0		0	100	0		20	0	80		
PHF	.000	.500	.000	.500	.000	.000	.000	.000	.000	.500	.000	.500	.250	.000	.500	.625	.750

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County of San Bernardino
N/S: Glen Helen Parkway
E/W: I-215 Southbound Ramps
Weather: Clear

File Name : 02_CSB_GH_215S AM
Site Code : 00324507
Start Date : 5/21/2024
Page No : 2



Peak Hour Analysis From 07:15 AM to 08:00 AM - Peak 1 of 1
Peak Hour for Each Approach Begins at:

	07:15 AM				07:15 AM				07:15 AM				07:15 AM			
+0 mins.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1
+15 mins.	0	0	0	0	0	0	0	0	0	1	0	1	0	0	1	1
+30 mins.	0	1	0	1	0	0	0	0	0	0	0	0	0	0	2	2
+45 mins.	0	1	0	1	0	0	0	0	0	1	0	1	1	0	0	1
Total Volume	0	2	0	2	0	0	0	0	0	2	0	2	1	0	4	5
% App. Total	0	100	0		0	0	0		0	100	0		20	0	80	
PHF	.000	.500	.000	.500	.000	.000	.000	.000	.000	.500	.000	.500	.250	.000	.500	.625

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County of San Bernardino
N/S: Glen Helen Parkway
E/W: I-215 Southbound Ramps
Weather: Clear

File Name : 02_CSB_GH_215S AM
Site Code : 00324507
Start Date : 5/21/2024
Page No : 1

Groups Printed- 4+ Axle Trucks

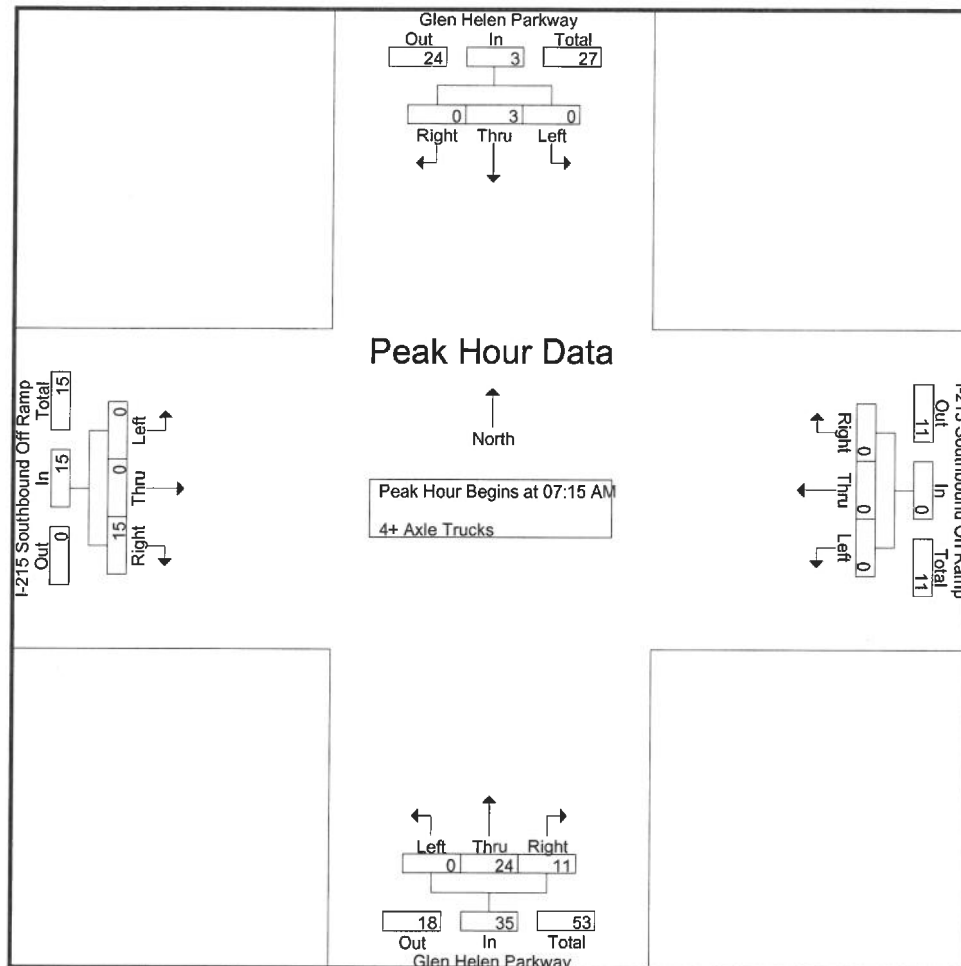
	Glen Helen Parkway Southbound				I-215 Southbound On Ramp Westbound				Glen Helen Parkway Northbound				I-215 Southbound Off Ramp Eastbound				
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
07:00 AM	0	2	0	2	0	0	0	0	0	8	2	10	0	0	3	3	15
07:15 AM	0	1	0	1	0	0	0	0	0	6	6	12	0	0	4	4	17
07:30 AM	0	0	0	0	0	0	0	0	0	4	4	8	0	0	4	4	12
07:45 AM	0	1	0	1	0	0	0	0	0	9	0	9	0	0	3	3	13
Total	0	4	0	4	0	0	0	0	0	27	12	39	0	0	14	14	57
08:00 AM	0	1	0	1	0	0	0	0	0	5	1	6	0	0	4	4	11
08:15 AM	0	0	0	0	0	0	0	0	0	4	1	5	0	1	3	4	9
08:30 AM	0	1	0	1	0	0	0	0	0	12	1	13	2	0	2	4	18
08:45 AM	0	0	0	0	0	0	0	0	0	4	3	7	0	0	4	4	11
Total	0	2	0	2	0	0	0	0	0	25	6	31	2	1	13	16	49
Grand Total	0	6	0	6	0	0	0	0	0	52	18	70	2	1	27	30	106
Apprch %	0	100	0		0	0	0		0	74.3	25.7		6.7	3.3	90		
Total %	0	5.7	0	5.7	0	0	0	0	0	49.1	17	66	1.9	0.9	25.5	28.3	

	Glen Helen Parkway Southbound				I-215 Southbound On Ramp Westbound				Glen Helen Parkway Northbound				I-215 Southbound Off Ramp Eastbound				
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
Peak Hour Analysis From 07:15 AM to 08:00 AM - Peak 1 of 1																	
Peak Hour for Entire Intersection Begins at 07:15 AM																	
07:15 AM	0	1	0	1	0	0	0	0	0	6	6	12	0	0	4	4	17
07:30 AM	0	0	0	0	0	0	0	0	0	4	4	8	0	0	4	4	12
07:45 AM	0	1	0	1	0	0	0	0	0	9	0	9	0	0	3	3	13
08:00 AM	0	1	0	1	0	0	0	0	0	5	1	6	0	0	4	4	11
Total Volume	0	3	0	3	0	0	0	0	0	24	11	35	0	0	15	15	53
% App. Total	0	100	0		0	0	0		0	68.6	31.4		0	0	100		
PHF	.000	.750	.000	.750	.000	.000	.000	.000	.000	.667	.458	.729	.000	.000	.938	.938	.779

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County of San Bernardino
N/S: Glen Helen Parkway
E/W: I-215 Southbound Ramps
Weather: Clear

File Name : 02_CSB_GH_215S AM
Site Code : 00324507
Start Date : 5/21/2024
Page No : 2



Peak Hour Analysis From 07:15 AM to 08:00 AM - Peak 1 of 1
Peak Hour for Each Approach Begins at:

	07:15 AM				07:15 AM				07:15 AM				07:15 AM			
+0 mins.	0	1	0	1	0	0	0	0	0	6	6	12	0	0	4	4
+15 mins.	0	0	0	0	0	0	0	0	0	4	4	8	0	0	4	4
+30 mins.	0	1	0	1	0	0	0	0	0	9	0	9	0	0	3	3
+45 mins.	0	1	0	1	0	0	0	0	0	5	1	6	0	0	4	4
Total Volume	0	3	0	3	0	0	0	0	0	24	11	35	0	0	15	15
% App. Total	0	100	0	0	0	0	0	0	0	68.6	31.4	0	0	0	100	0
PHF	.000	.750	.000	.750	.000	.000	.000	.000	.000	.667	.458	.729	.000	.000	.938	.938

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County of San Bernardino
N/S: Glen Helen Parkway
E/W: I-215 Southbound Ramps
Weather: Clear

File Name : 02_CSB_GH_215S PM
Site Code : 00324507
Start Date : 5/21/2024
Page No : 1

Groups Printed- Passenger Vehicles - Large 2 Axle Vehicles - 3 Axle Vehicles - 4+ Axle Trucks

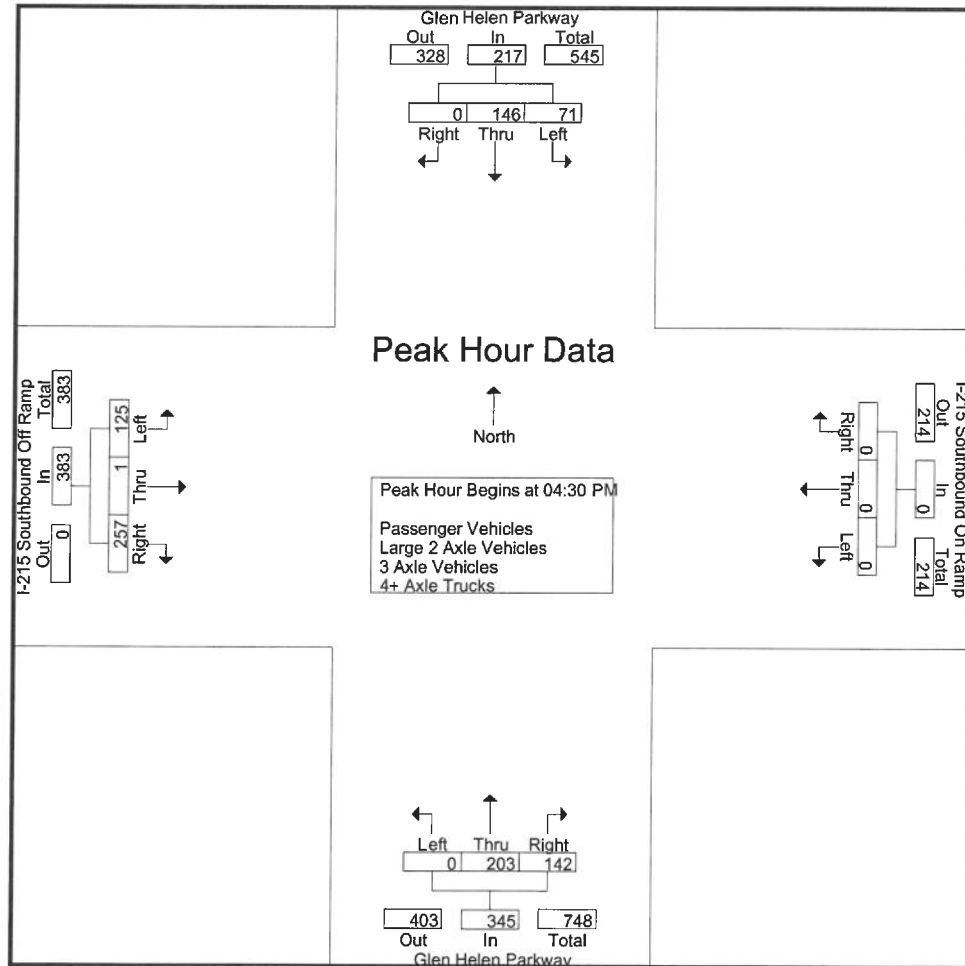
	Glen Helen Parkway Southbound				I-215 Southbound On Ramp Westbound				Glen Helen Parkway Northbound				I-215 Southbound Off Ramp Eastbound				
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
04:00 PM	16	50	0	66	0	0	0	0	0	39	43	82	27	1	56	84	232
04:15 PM	9	37	0	46	0	0	0	0	0	36	33	69	33	3	69	105	220
04:30 PM	16	47	0	63	0	0	0	0	0	58	32	90	30	0	65	95	248
04:45 PM	13	32	0	45	0	0	0	0	0	37	33	70	29	0	70	99	214
Total	54	166	0	220	0	0	0	0	0	170	141	311	119	4	260	383	914
05:00 PM	15	33	0	48	0	0	0	0	0	46	41	87	39	1	54	94	229
05:15 PM	27	34	0	61	0	0	0	0	0	62	36	98	27	0	68	95	254
05:30 PM	9	35	0	44	0	0	0	0	0	53	45	98	27	0	61	88	230
05:45 PM	18	28	0	46	0	0	0	0	0	37	32	69	36	1	60	97	212
Total	69	130	0	199	0	0	0	0	0	198	154	352	129	2	243	374	925
Grand Total	123	296	0	419	0	0	0	0	0	368	295	663	248	6	503	757	1839
Apprch %	29.4	70.6	0		0	0	0		0	55.5	44.5		32.8	0.8	66.4		
Total %	6.7	16.1	0	22.8	0	0	0	0	0	20	16	36.1	13.5	0.3	27.4	41.2	
Passenger Vehicles	114	279	0	393	0	0	0	0	0	327	275	602	236	5	406	647	1642
% Passenger Vehicles	92.7	94.3	0	93.8	0	0	0	0	0	88.9	93.2	90.8	95.2	83.3	80.7	85.5	89.3
Large 2 Axle Vehicles	7	7	0	14	0	0	0	0	0	7	7	14	5	0	8	13	41
% Large 2 Axle Vehicles	5.7	2.4	0	3.3	0	0	0	0	0	1.9	2.4	2.1	2	0	1.6	1.7	2.2
3 Axle Vehicles	1	2	0	3	0	0	0	0	0	4	4	8	0	0	12	12	23
% 3 Axle Vehicles	0.8	0.7	0	0.7	0	0	0	0	0	1.1	1.4	1.2	0	0	2.4	1.6	1.3
4+ Axle Trucks	1	8	0	9	0	0	0	0	0	30	9	39	7	1	77	85	133
% 4+ Axle Trucks	0.8	2.7	0	2.1	0	0	0	0	0	8.2	3.1	5.9	2.8	16.7	15.3	11.2	7.2

	Glen Helen Parkway Southbound				I-215 Southbound On Ramp Westbound				Glen Helen Parkway Northbound				I-215 Southbound Off Ramp Eastbound				
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
Peak Hour Analysis From 04:00 PM to 05:45 PM - Peak 1 of 1																	
Peak Hour for Entire Intersection Begins at 04:30 PM																	
04:30 PM	16	47	0	63	0	0	0	0	0	58	32	90	30	0	65	95	248
04:45 PM	13	32	0	45	0	0	0	0	0	37	33	70	29	0	70	99	214
05:00 PM	15	33	0	48	0	0	0	0	0	46	41	87	39	1	54	94	229
05:15 PM	27	34	0	61	0	0	0	0	0	62	36	98	27	0	68	95	254
Total Volume	71	146	0	217	0	0	0	0	0	203	142	345	125	1	257	383	945
% App. Total	32.7	67.3	0		0	0	0		0	58.8	41.2		32.6	0.3	67.1		
PHF	.657	.777	.000	.861	.000	.000	.000	.000	.000	.819	.866	.880	.801	.250	.918	.967	.930

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County of San Bernardino
N/S: Glen Helen Parkway
E/W: I-215 Southbound Ramps
Weather: Clear

File Name : 02_CSB_GH_215S PM
Site Code : 00324507
Start Date : 5/21/2024
Page No : 2



Peak Hour Analysis From 04:00 PM to 05:45 PM - Peak 1 of 1
Peak Hour for Each Approach Begins at:

	04:00 PM				04:00 PM				04:45 PM				04:15 PM			
+0 mins.	16	50	0	66	0	0	0	0	0	37	33	70	33	3	69	105
+15 mins.	9	37	0	46	0	0	0	0	0	46	41	87	30	0	65	95
+30 mins.	16	47	0	63	0	0	0	0	0	62	36	98	29	0	70	99
+45 mins.	13	32	0	45	0	0	0	0	0	53	45	98	39	1	54	94
Total Volume	54	166	0	220	0	0	0	0	0	198	155	353	131	4	258	393
% App. Total	24.5	75.5	0		0	0	0		0	56.1	43.9		33.3	1	65.6	
PHF	.844	.830	.000	.833	.000	.000	.000	.000	.000	.798	.861	.901	.840	.333	.921	.936

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County of San Bernardino
N/S: Glen Helen Parkway
E/W: I-215 Southbound Ramps
Weather: Clear

File Name : 02_CSB_GH_215S PM
Site Code : 00324507
Start Date : 5/21/2024
Page No : 1

Groups Printed- Passenger Vehicles

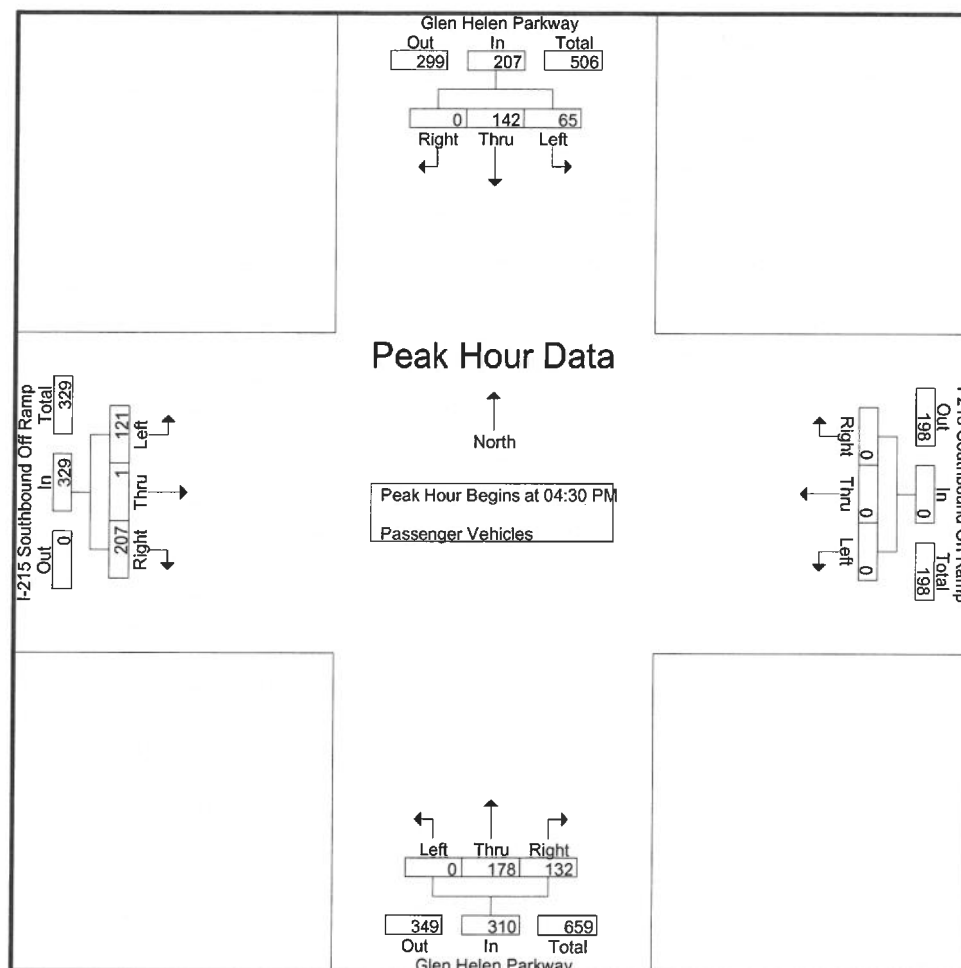
	Glen Helen Parkway Southbound				I-215 Southbound On Ramp Westbound				Glen Helen Parkway Northbound				I-215 Southbound Off Ramp Eastbound				
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
04:00 PM	16	43	0	59	0	0	0	0	0	35	40	75	24	0	41	65	199
04:15 PM	8	35	0	43	0	0	0	0	0	32	31	63	33	3	63	99	205
04:30 PM	13	46	0	59	0	0	0	0	0	53	30	83	28	0	50	78	220
04:45 PM	11	31	0	42	0	0	0	0	0	29	27	56	27	0	58	85	183
Total	48	155	0	203	0	0	0	0	0	149	128	277	112	3	212	327	807
05:00 PM	15	31	0	46	0	0	0	0	0	37	40	77	39	1	46	86	209
05:15 PM	26	34	0	60	0	0	0	0	0	59	35	94	27	0	53	80	234
05:30 PM	9	31	0	40	0	0	0	0	0	49	43	92	25	0	49	74	206
05:45 PM	16	28	0	44	0	0	0	0	0	33	29	62	33	1	46	80	186
Total	66	124	0	190	0	0	0	0	0	178	147	325	124	2	194	320	835
Grand Total	114	279	0	393	0	0	0	0	0	327	275	602	236	5	406	647	1642
Apprch %	29	71	0		0	0	0		0	54.3	45.7		36.5	0.8	62.8		
Total %	6.9	17	0	23.9	0	0	0	0	0	19.9	16.7	36.7	14.4	0.3	24.7	39.4	

	Glen Helen Parkway Southbound				I-215 Southbound On Ramp Westbound				Glen Helen Parkway Northbound				I-215 Southbound Off Ramp Eastbound				
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
Peak Hour Analysis From 04:30 PM to 05:15 PM - Peak 1 of 1																	
Peak Hour for Entire Intersection Begins at 04:30 PM																	
04:30 PM	13	46	0	59	0	0	0	0	0	53	30	83	28	0	50	78	220
04:45 PM	11	31	0	42	0	0	0	0	0	29	27	56	27	0	58	85	183
05:00 PM	15	31	0	46	0	0	0	0	0	37	40	77	39	1	46	86	209
05:15 PM	26	34	0	60	0	0	0	0	0	59	35	94	27	0	53	80	234
Total Volume	65	142	0	207	0	0	0	0	0	178	132	310	121	1	207	329	846
% App. Total	31.4	68.6	0		0	0	0		0	57.4	42.6		36.8	0.3	62.9		
PHF	.625	.772	.000	.863	.000	.000	.000	.000	.000	.754	.825	.824	.776	.250	.892	.956	.904

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County of San Bernardino
N/S: Glen Helen Parkway
E/W: I-215 Southbound Ramps
Weather: Clear

File Name : 02_CSB_GH_215S PM
Site Code : 00324507
Start Date : 5/21/2024
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Peak Hour Analysis From 04:30 PM to 05:15 PM - Peak 1 of 1
Peak Hour for Each Approach Begins at:

	04:30 PM				04:30 PM				04:30 PM				04:30 PM			
+0 mins.	13	46	0	59	0	0	0	0	0	53	30	83	28	0	50	78
+15 mins.	11	31	0	42	0	0	0	0	0	29	27	56	27	0	58	85
+30 mins.	15	31	0	46	0	0	0	0	0	37	40	77	39	1	46	86
+45 mins.	26	34	0	60	0	0	0	0	0	59	35	94	27	0	53	80
Total Volume	65	142	0	207	0	0	0	0	0	178	132	310	121	1	207	329
% App. Total	31.4	68.6	0		0	0	0	0	0	57.4	42.6		36.8	0.3	62.9	
PHF	.625	.772	.000	.863	.000	.000	.000	.000	.000	.754	.825	.824	.776	.250	.892	.956

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County of San Bernardino
N/S: Glen Helen Parkway
E/W: I-215 Southbound Ramps
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File Name : 02_CSB_GH_215S PM
Site Code : 00324507
Start Date : 5/21/2024
Page No : 1

Groups Printed- Large 2 Axle Vehicles

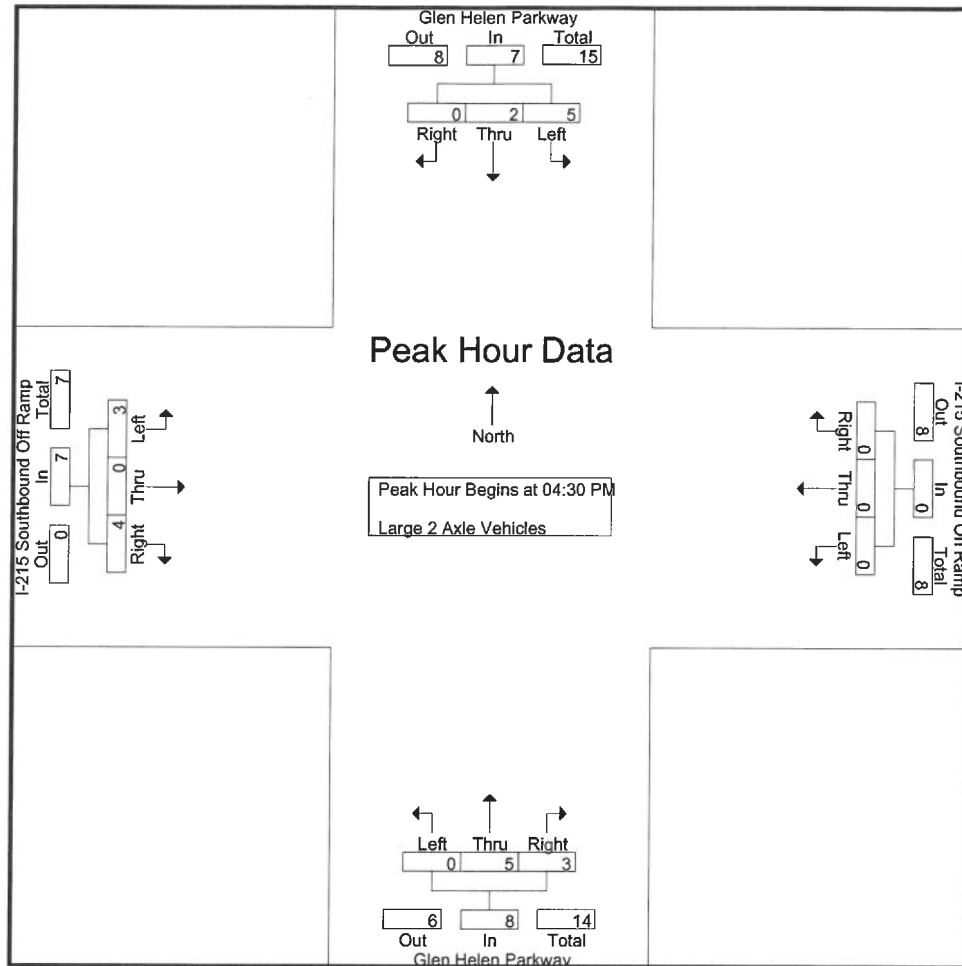
	Glen Helen Parkway Southbound				I-215 Southbound On Ramp Westbound				Glen Helen Parkway Northbound				I-215 Southbound Off Ramp Eastbound				
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
04:00 PM	0	3	0	3	0	0	0	0	0	1	2	3	2	0	3	5	11
04:15 PM	1	2	0	3	0	0	0	0	0	0	2	2	0	0	0	0	5
04:30 PM	2	0	0	2	0	0	0	0	0	1	1	2	2	0	1	3	7
04:45 PM	2	1	0	3	0	0	0	0	0	1	2	3	1	0	1	2	8
Total	5	6	0	11	0	0	0	0	0	3	7	10	5	0	5	10	31
05:00 PM	0	1	0	1	0	0	0	0	0	2	0	2	0	0	0	0	3
05:15 PM	1	0	0	1	0	0	0	0	0	1	0	1	0	0	2	2	4
05:30 PM	0	0	0	0	0	0	0	0	0	1	0	1	0	0	1	1	2
05:45 PM	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	1
Total	2	1	0	3	0	0	0	0	0	4	0	4	0	0	3	3	10
Grand Total	7	7	0	14	0	0	0	0	0	7	7	14	5	0	8	13	41
Apprch %	50	50	0		0	0	0		0	50	50		38.5	0	61.5		
Total %	17.1	17.1	0	34.1	0	0	0	0	0	17.1	17.1	34.1	12.2	0	19.5	31.7	

	Glen Helen Parkway Southbound				I-215 Southbound On Ramp Westbound				Glen Helen Parkway Northbound				I-215 Southbound Off Ramp Eastbound				
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
Peak Hour Analysis From 04:30 PM to 05:15 PM - Peak 1 of 1																	
Peak Hour for Entire Intersection Begins at 04:30 PM																	
04:30 PM	2	0	0	2	0	0	0	0	0	1	1	2	2	0	1	3	7
04:45 PM	2	1	0	3	0	0	0	0	0	1	2	3	1	0	1	2	8
05:00 PM	0	1	0	1	0	0	0	0	0	2	0	2	0	0	0	0	3
05:15 PM	1	0	0	1	0	0	0	0	0	1	0	1	0	0	2	2	4
Total Volume	5	2	0	7	0	0	0	0	0	5	3	8	3	0	4	7	22
% App. Total	71.4	28.6	0		0	0	0		0	62.5	37.5		42.9	0	57.1		
PHF	.625	.500	.000	.583	.000	.000	.000	.000	.000	.625	.375	.667	.375	.000	.500	.583	.688

Counts Unlimited, Inc.
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County of San Bernardino
N/S: Glen Helen Parkway
E/W: I-215 Southbound Ramps
Weather: Clear

File Name : 02_CSB_GH_215S PM
Site Code : 00324507
Start Date : 5/21/2024
Page No : 2



Peak Hour Analysis From 04:30 PM to 05:15 PM - Peak 1 of 1
Peak Hour for Each Approach Begins at:

	04:30 PM				04:30 PM				04:30 PM				04:30 PM			
+0 mins.	2	0	0	2	0	0	0	0	0	1	1	2	2	0	1	3
+15 mins.	2	1	0	3	0	0	0	0	0	1	2	3	1	0	1	2
+30 mins.	0	1	0	1	0	0	0	0	0	2	0	2	0	0	0	0
+45 mins.	1	0	0	1	0	0	0	0	0	1	0	1	0	0	2	2
Total Volume	5	2	0	7	0	0	0	0	0	5	3	8	3	0	4	7
% App. Total	71.4	28.6	0		0	0	0		0	62.5	37.5		42.9	0	57.1	
PHF	.625	.500	.000	.583	.000	.000	.000	.000	.000	.625	.375	.667	.375	.000	.500	.583

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County of San Bernardino
N/S: Glen Helen Parkway
E/W: I-215 Southbound Ramps
Weather: Clear

File Name : 02_CSB_GH_215S PM
Site Code : 00324507
Start Date : 5/21/2024
Page No : 1

Groups Printed- 3 Axle Vehicles

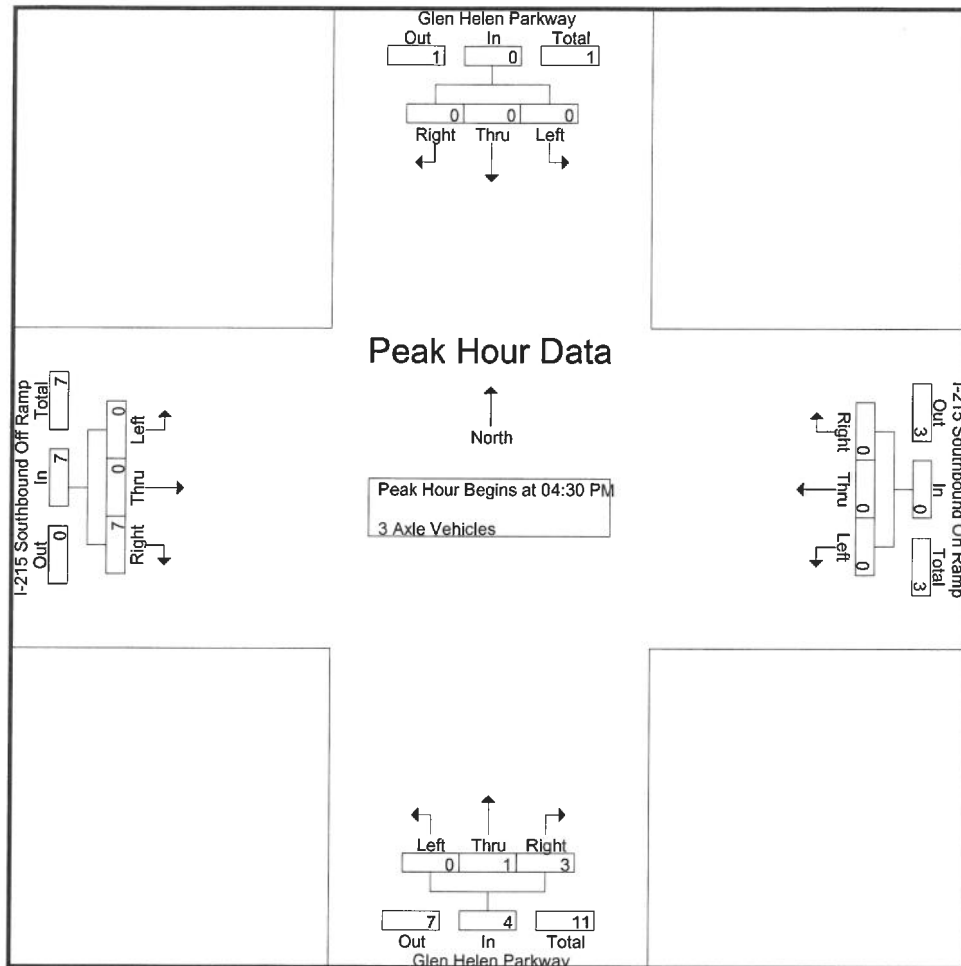
Start Time	Glen Helen Parkway Southbound				I-215 Southbound On Ramp Westbound				Glen Helen Parkway Northbound				I-215 Southbound Off Ramp Eastbound				Int. Total
	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	
04:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	2	2
04:15 PM	0	0	0	0	0	0	0	0	0	1	0	1	0	0	1	1	2
04:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	3	3
04:45 PM	0	0	0	0	0	0	0	0	0	0	2	2	0	0	2	2	4
Total	0	0	0	0	0	0	0	0	0	1	2	3	0	0	8	8	11
05:00 PM	0	0	0	0	0	0	0	0	0	1	1	2	0	0	0	0	2
05:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	2	2
05:30 PM	0	2	0	2	0	0	0	0	0	0	0	0	0	0	1	1	3
05:45 PM	1	0	0	1	0	0	0	0	0	2	1	3	0	0	1	1	5
Total	1	2	0	3	0	0	0	0	0	3	2	5	0	0	4	4	12
Grand Total	1	2	0	3	0	0	0	0	0	4	4	8	0	0	12	12	23
Apprch %	33.3	66.7	0		0	0	0		0	50	50		0	0	100		
Total %	4.3	8.7	0	13	0	0	0	0	0	17.4	17.4	34.8	0	0	52.2	52.2	

	Glen Helen Parkway Southbound				I-215 Southbound On Ramp Westbound				Glen Helen Parkway Northbound				I-215 Southbound Off Ramp Eastbound				
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
Peak Hour Analysis From 04:30 PM to 05:15 PM - Peak 1 of 1																	
Peak Hour for Entire Intersection Begins at 04:30 PM																	
04:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	3	3
04:45 PM	0	0	0	0	0	0	0	0	0	0	2	2	0	0	2	2	4
05:00 PM	0	0	0	0	0	0	0	0	0	1	1	2	0	0	0	0	2
05:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	2	2
Total Volume	0	0	0	0	0	0	0	0	0	1	3	4	0	0	7	7	11
% App. Total	0	0	0		0	0	0		0	25	75		0	0	100		
PHF	.000	.000	.000	.000	.000	.000	.000	.000	.000	.250	.375	.500	.000	.000	.583	.583	.688

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County of San Bernardino
N/S: Glen Helen Parkway
E/W: I-215 Southbound Ramps
Weather: Clear

File Name : 02_CSB_GH_215S PM
Site Code : 00324507
Start Date : 5/21/2024
Page No : 2



Peak Hour Analysis From 04:30 PM to 05:15 PM - Peak 1 of 1
Peak Hour for Each Approach Begins at:

	04:30 PM				04:30 PM				04:30 PM				04:30 PM			
+0 mins.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	3
+15 mins.	0	0	0	0	0	0	0	0	0	0	2	2	0	0	2	2
+30 mins.	0	0	0	0	0	0	0	0	0	1	1	2	0	0	0	0
+45 mins.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	2
Total Volume	0	0	0	0	0	0	0	0	0	1	3	4	0	0	7	7
% App. Total	0	0	0	0	0	0	0	0	0	25	75		0	0	100	
PHF	.000	.000	.000	.000	.000	.000	.000	.000	.000	.250	.375	.500	.000	.000	.583	.583

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County of San Bernardino
N/S: Glen Helen Parkway
E/W: I-215 Southbound Ramps
Weather: Clear

File Name : 02_CSB_GH_215S PM
Site Code : 00324507
Start Date : 5/21/2024
Page No : 1

Groups Printed- 4+ Axle Trucks

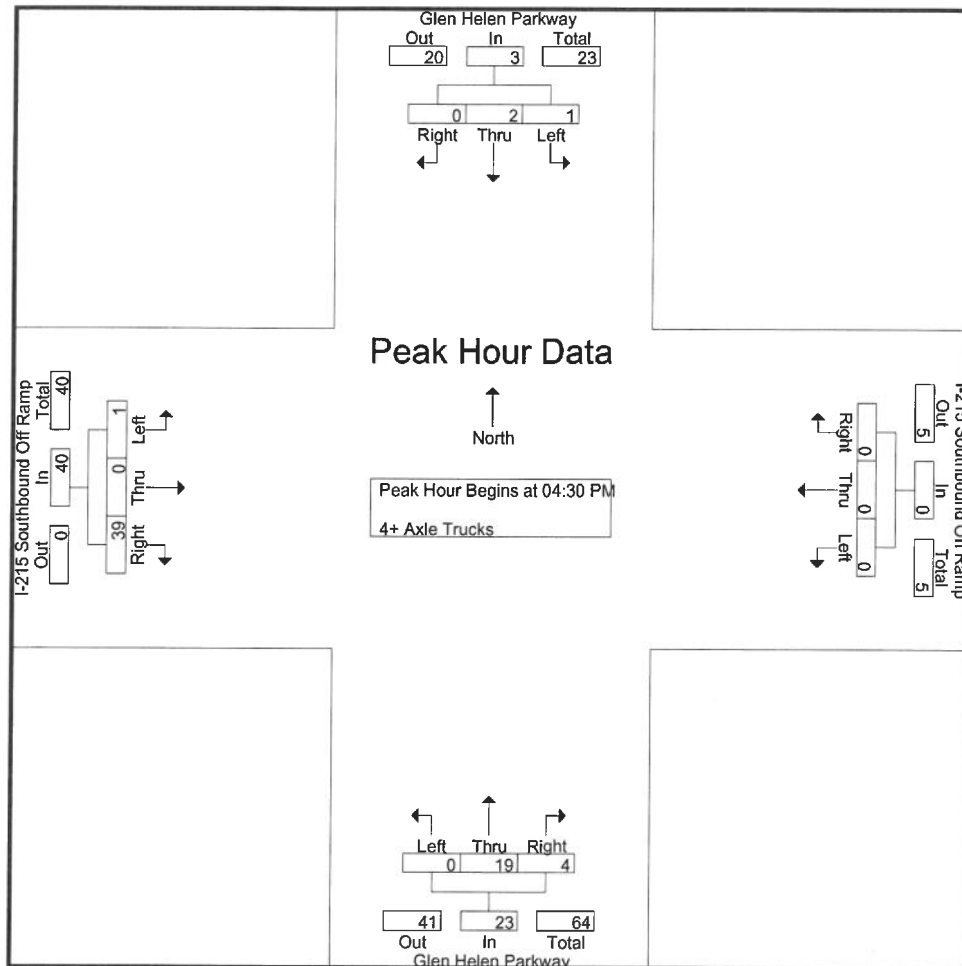
	Glen Helen Parkway Southbound				I-215 Southbound On Ramp Westbound				Glen Helen Parkway Northbound				I-215 Southbound Off Ramp Eastbound				
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
04:00 PM	0	4	0	4	0	0	0	0	0	3	1	4	1	1	10	12	20
04:15 PM	0	0	0	0	0	0	0	0	0	3	0	3	0	0	5	5	8
04:30 PM	1	1	0	2	0	0	0	0	0	4	1	5	0	0	11	11	18
04:45 PM	0	0	0	0	0	0	0	0	0	7	2	9	1	0	9	10	19
Total	1	5	0	6	0	0	0	0	0	17	4	21	2	1	35	38	65
05:00 PM	0	1	0	1	0	0	0	0	0	6	0	6	0	0	8	8	15
05:15 PM	0	0	0	0	0	0	0	0	0	2	1	3	0	0	11	11	14
05:30 PM	0	2	0	2	0	0	0	0	0	3	2	5	2	0	10	12	19
05:45 PM	0	0	0	0	0	0	0	0	0	2	2	4	3	0	13	16	20
Total	0	3	0	3	0	0	0	0	0	13	5	18	5	0	42	47	68
Grand Total	1	8	0	9	0	0	0	0	0	30	9	39	7	1	77	85	133
Apprch %	11.1	88.9	0		0	0	0		0	76.9	23.1		8.2	1.2	90.6		
Total %	0.8	6	0	6.8	0	0	0	0	0	22.6	6.8	29.3	5.3	0.8	57.9	63.9	

	Glen Helen Parkway Southbound				I-215 Southbound On Ramp Westbound				Glen Helen Parkway Northbound				I-215 Southbound Off Ramp Eastbound				
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
Peak Hour Analysis From 04:30 PM to 05:15 PM - Peak 1 of 1																	
Peak Hour for Entire Intersection Begins at 04:30 PM																	
04:30 PM	1	1	0	2	0	0	0	0	0	4	1	5	0	0	11	11	18
04:45 PM	0	0	0	0	0	0	0	0	0	7	2	9	1	0	9	10	19
05:00 PM	0	1	0	1	0	0	0	0	0	6	0	6	0	0	8	8	15
05:15 PM	0	0	0	0	0	0	0	0	0	2	1	3	0	0	11	11	14
Total Volume	1	2	0	3	0	0	0	0	0	19	4	23	1	0	39	40	66
% App. Total	33.3	66.7	0		0	0	0		0	82.6	17.4		2.5	0	97.5		
PHF	.250	.500	.000	.375	.000	.000	.000	.000	.000	.679	.500	.639	.250	.000	.886	.909	.868

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County of San Bernardino
N/S: Glen Helen Parkway
E/W: I-215 Southbound Ramps
Weather: Clear

File Name : 02_CSB_GH_215S PM
Site Code : 00324507
Start Date : 5/21/2024
Page No : 2



Peak Hour Analysis From 04:30 PM to 05:15 PM - Peak 1 of 1
Peak Hour for Each Approach Begins at:

	04:30 PM				04:30 PM				04:30 PM				04:30 PM			
+0 mins.	1	1	0	2	0	0	0	0	0	4	1	5	0	0	11	11
+15 mins.	0	0	0	0	0	0	0	0	0	7	2	9	1	0	9	10
+30 mins.	0	1	0	1	0	0	0	0	0	6	0	6	0	0	8	8
+45 mins.	0	0	0	0	0	0	0	0	0	2	1	3	0	0	11	11
Total Volume	1	2	0	3	0	0	0	0	0	19	4	23	1	0	39	40
% App. Total	33.3	66.7	0		0	0	0		0	82.6	17.4		2.5	0	97.5	
PHF	.250	.500	.000	.375	.000	.000	.000	.000	.000	.679	.500	.639	.250	.000	.886	.909

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County of San Bernardino
N/S: Glen Helen Parkway
E/W: Cajon Boulevard
Weather: Clear

File Name : 03_CSB_GH_Cajon AM
Site Code : 00324507
Start Date : 5/21/2024
Page No : 1

Groups Printed- Passenger Vehicles - Large 2 Axle Vehicles - 3 Axle Vehicles - 4+ Axle Trucks

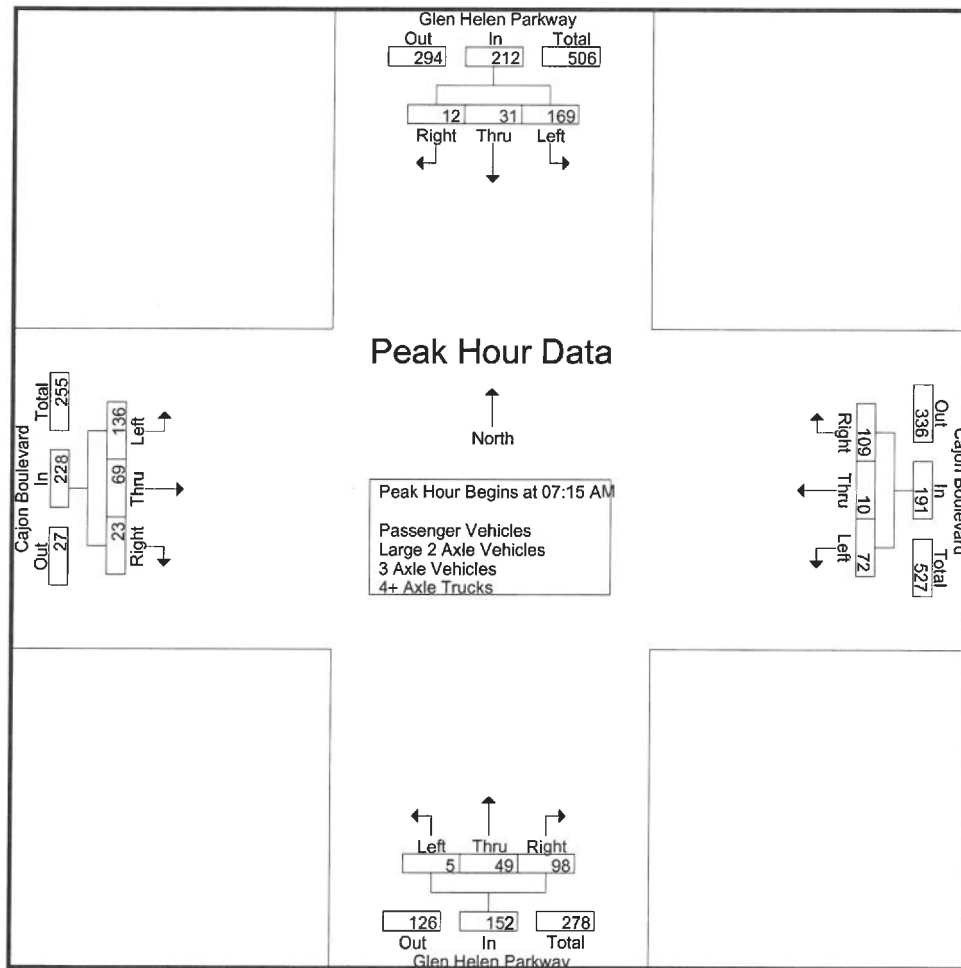
	Glen Helen Parkway Southbound				Cajon Boulevard Westbound				Glen Helen Parkway Northbound				Cajon Boulevard Eastbound				
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
07:00 AM	30	10	3	43	12	1	31	44	0	11	8	19	35	18	11	64	170
07:15 AM	50	11	2	63	22	3	31	56	1	11	17	29	40	15	9	64	212
07:30 AM	38	4	4	46	25	1	26	52	1	6	23	30	33	24	4	61	189
07:45 AM	42	8	3	53	16	0	26	42	2	17	28	47	40	19	10	69	211
Total	160	33	12	205	75	5	114	194	4	45	76	125	148	76	34	258	782
08:00 AM	39	8	3	50	9	6	26	41	1	15	30	46	23	11	0	34	171
08:15 AM	32	10	6	48	14	3	28	45	1	16	23	40	19	6	8	33	166
08:30 AM	32	8	3	43	17	3	34	54	2	21	23	46	10	2	2	14	157
08:45 AM	31	13	6	50	25	5	19	49	2	9	20	31	8	13	7	28	158
Total	134	39	18	191	65	17	107	189	6	61	96	163	60	32	17	109	652
Grand Total	294	72	30	396	140	22	221	383	10	106	172	288	208	108	51	367	1434
Apprch %	74.2	18.2	7.6		36.6	5.7	57.7		3.5	36.8	59.7		56.7	29.4	13.9		
Total %	20.5	5	2.1	27.6	9.8	1.5	15.4	26.7	0.7	7.4	12	20.1	14.5	7.5	3.6	25.6	
Passenger Vehicles	241	57	23	321	106	18	126	250	9	94	144	247	203	103	45	351	1169
% Passenger Vehicles	82	79.2	76.7	81.1	75.7	81.8	57	65.3	90	88.7	83.7	85.8	97.6	95.4	88.2	95.6	81.5
Large 2 Axle Vehicles	15	13	1	29	6	2	25	33	1	11	11	23	1	5	4	10	95
% Large 2 Axle Vehicles	5.1	18.1	3.3	7.3	4.3	9.1	11.3	8.6	10	10.4	6.4	8	0.5	4.6	7.8	2.7	6.6
3 Axle Vehicles	7	1	3	11	7	2	6	15	0	0	9	9	1	0	2	3	38
% 3 Axle Vehicles	2.4	1.4	10	2.8	5	9.1	2.7	3.9	0	0	5.2	3.1	0.5	0	3.9	0.8	2.6
4+ Axle Trucks	31	1	3	35	21	0	64	85	0	1	8	9	3	0	0	3	132
% 4+ Axle Trucks	10.5	1.4	10	8.8	15	0	29	22.2	0	0.9	4.7	3.1	1.4	0	0	0.8	9.2

	Glen Helen Parkway Southbound				Cajon Boulevard Westbound				Glen Helen Parkway Northbound				Cajon Boulevard Eastbound				
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
Peak Hour Analysis From 07:00 AM to 08:45 AM - Peak 1 of 1																	
Peak Hour for Entire Intersection Begins at 07:15 AM																	
07:15 AM	50	11	2	63	22	3	31	56	1	11	17	29	40	15	9	64	212
07:30 AM	38	4	4	46	25	1	26	52	1	6	23	30	33	24	4	61	189
07:45 AM	42	8	3	53	16	0	26	42	2	17	28	47	40	19	10	69	211
08:00 AM	39	8	3	50	9	6	26	41	1	15	30	46	23	11	0	34	171
Total Volume	169	31	12	212	72	10	109	191	5	49	98	152	136	69	23	228	783
% App. Total	79.7	14.6	5.7		37.7	5.2	57.1		3.3	32.2	64.5		59.6	30.3	10.1		
PHF	.845	.705	.750	.841	.720	.417	.879	.853	.625	.721	.817	.809	.850	.719	.575	.826	.923

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County of San Bernardino
N/S: Glen Helen Parkway
E/W: Cajon Boulevard
Weather: Clear

File Name : 03_CSB_GH_Cajon AM
Site Code : 00324507
Start Date : 5/21/2024
Page No : 2



Peak Hour Analysis From 07:00 AM to 08:45 AM - Peak 1 of 1
Peak Hour for Each Approach Begins at:

	07:15 AM				07:00 AM				07:45 AM				07:00 AM			
+0 mins.	50	11	2	63	12	1	31	44	2	17	28	47	35	18	11	64
+15 mins.	38	4	4	46	22	3	31	56	1	15	30	46	40	15	9	64
+30 mins.	42	8	3	53	25	1	26	52	1	16	23	40	33	24	4	61
+45 mins.	39	8	3	50	16	0	26	42	2	21	23	46	40	19	10	69
Total Volume	169	31	12	212	75	5	114	194	6	69	104	179	148	76	34	258
% App. Total	79.7	14.6	5.7		38.7	2.6	58.8		3.4	38.5	58.1		57.4	29.5	13.2	
PHF	.845	.705	.750	.841	.750	.417	.919	.866	.750	.821	.867	.952	.925	.792	.773	.935

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County of San Bernardino
N/S: Glen Helen Parkway
E/W: Cajon Boulevard
Weather: Clear

File Name : 03_CSB_GH_Cajon AM
Site Code : 00324507
Start Date : 5/21/2024
Page No : 1

Groups Printed- Passenger Vehicles

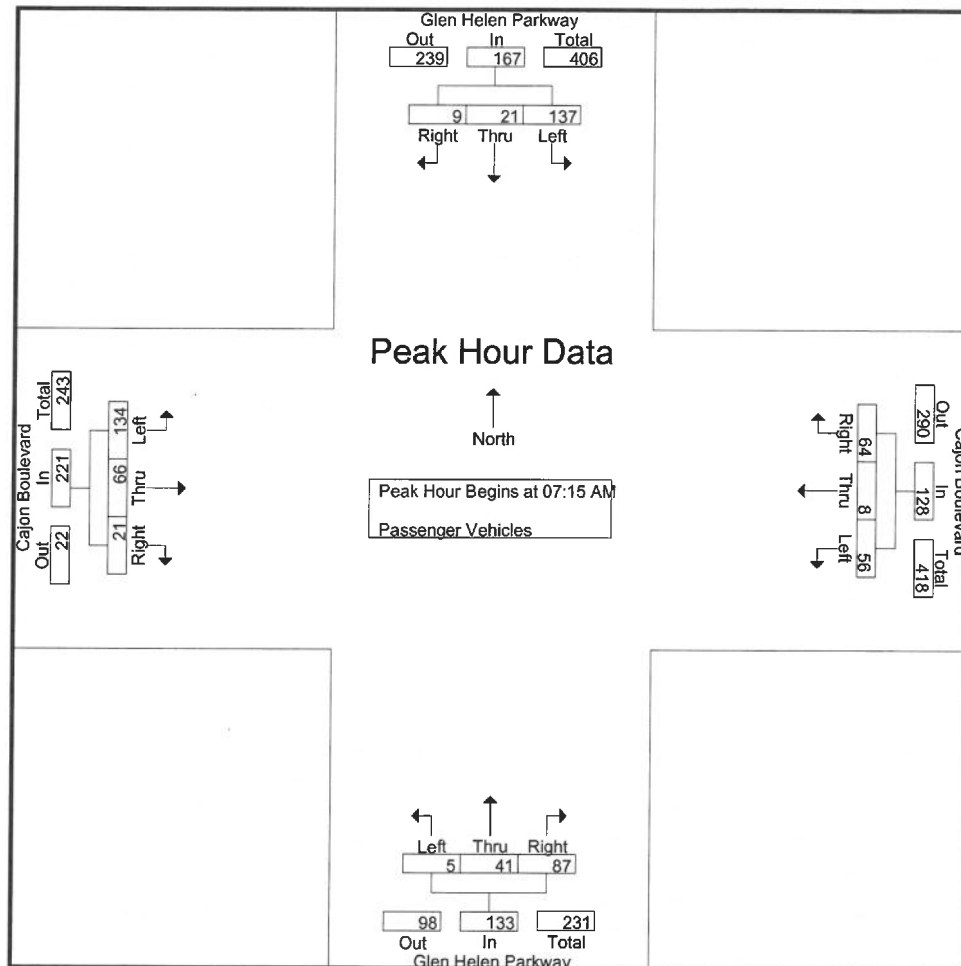
	Glen Helen Parkway Southbound				Cajon Boulevard Westbound				Glen Helen Parkway Northbound				Cajon Boulevard Eastbound				
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
07:00 AM	24	7	3	34	8	1	12	21	0	10	6	16	34	18	11	63	134
07:15 AM	42	4	1	47	16	1	17	34	1	10	16	27	40	15	7	62	170
07:30 AM	33	4	4	41	20	1	12	33	1	6	21	28	32	23	4	59	161
07:45 AM	35	6	2	43	12	0	17	29	2	12	25	39	39	18	10	67	178
Total	134	21	10	165	56	3	58	117	4	38	68	110	145	74	32	251	643
08:00 AM	27	7	2	36	8	6	18	32	1	13	25	39	23	10	0	33	140
08:15 AM	29	9	5	43	10	2	17	29	1	15	17	33	19	6	8	33	138
08:30 AM	26	8	2	36	12	2	20	34	1	20	20	41	9	2	1	12	123
08:45 AM	25	12	4	41	20	5	13	38	2	8	14	24	7	11	4	22	125
Total	107	36	13	156	50	15	68	133	5	56	76	137	58	29	13	100	526
Grand Total	241	57	23	321	106	18	126	250	9	94	144	247	203	103	45	351	1169
Apprch %	75.1	17.8	7.2		42.4	7.2	50.4		3.6	38.1	58.3		57.8	29.3	12.8		
Total %	20.6	4.9	2	27.5	9.1	1.5	10.8	21.4	0.8	8	12.3	21.1	17.4	8.8	3.8	30	

	Glen Helen Parkway Southbound				Cajon Boulevard Westbound				Glen Helen Parkway Northbound				Cajon Boulevard Eastbound				
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
Peak Hour Analysis From 07:15 AM to 08:00 AM - Peak 1 of 1																	
Peak Hour for Entire Intersection Begins at 07:15 AM																	
07:15 AM	42	4	1	47	16	1	17	34	1	10	16	27	40	15	7	62	170
07:30 AM	33	4	4	41	20	1	12	33	1	6	21	28	32	23	4	59	161
07:45 AM	35	6	2	43	12	0	17	29	2	12	25	39	39	18	10	67	178
08:00 AM	27	7	2	36	8	6	18	32	1	13	25	39	23	10	0	33	140
Total Volume	137	21	9	167	56	8	64	128	5	41	87	133	134	66	21	221	649
% App. Total	82	12.6	5.4		43.8	6.2	50		3.8	30.8	65.4		60.6	29.9	9.5		
PHF	.815	.750	.563	.888	.700	.333	.889	.941	.625	.788	.870	.853	.838	.717	.525	.825	.912

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County of San Bernardino
N/S: Glen Helen Parkway
E/W: Cajon Boulevard
Weather: Clear

File Name : 03_CSB_GH_Cajon AM
Site Code : 00324507
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Peak Hour Analysis From 07:15 AM to 08:00 AM - Peak 1 of 1
Peak Hour for Each Approach Begins at:

	07:15 AM				07:15 AM				07:15 AM				07:15 AM			
+0 mins.	42	4	1	47	16	1	17	34	1	10	16	27	40	15	7	62
+15 mins.	33	4	4	41	20	1	12	33	1	6	21	28	32	23	4	59
+30 mins.	35	6	2	43	12	0	17	29	2	12	25	39	39	18	10	67
+45 mins.	27	7	2	36	8	6	18	32	1	13	25	39	23	10	0	33
Total Volume	137	21	9	167	56	8	64	128	5	41	87	133	134	66	21	221
% App. Total	82	12.6	5.4		43.8	6.2	50		3.8	30.8	65.4		60.6	29.9	9.5	
PHF	.815	.750	.563	.888	.700	.333	.889	.941	.625	.788	.870	.853	.838	.717	.525	.825

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County of San Bernardino
N/S: Glen Helen Parkway
E/W: Cajon Boulevard
Weather: Clear

File Name : 03_CSB_GH_Cajon AM
Site Code : 00324507
Start Date : 5/21/2024
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Groups Printed- Large 2 Axle Vehicles

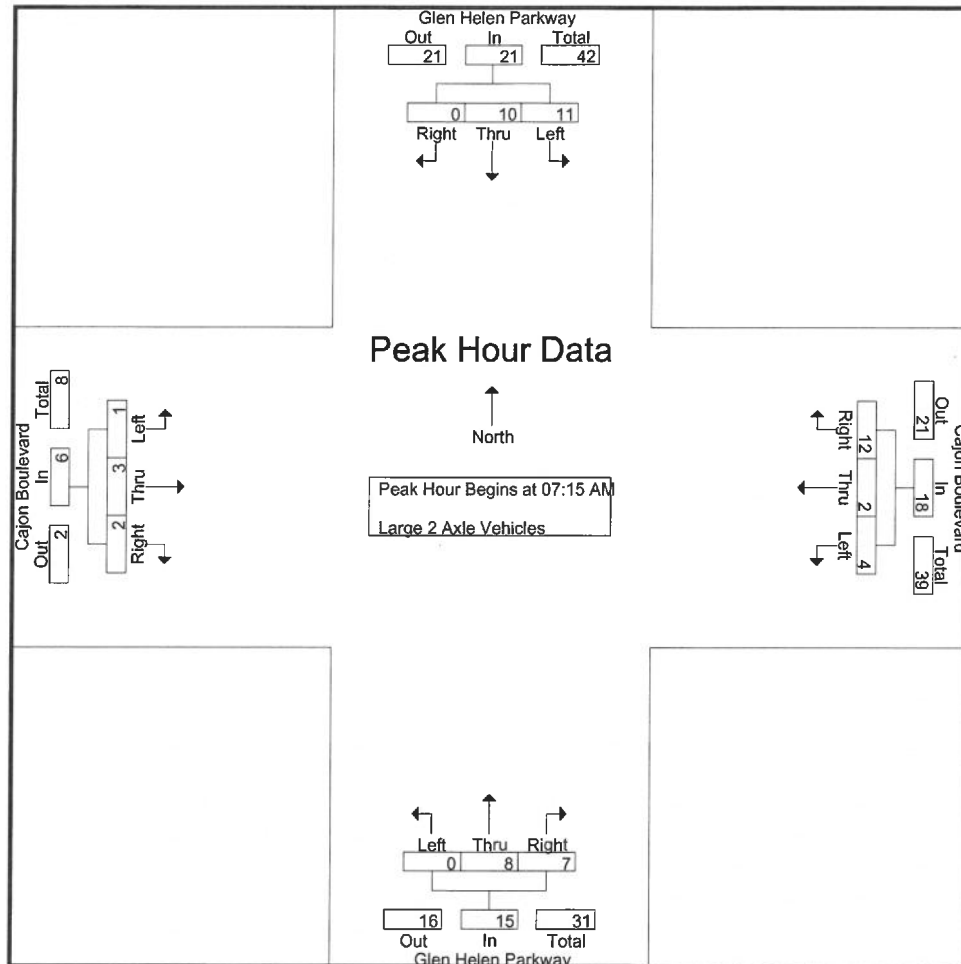
	Glen Helen Parkway Southbound				Cajon Boulevard Westbound				Glen Helen Parkway Northbound				Cajon Boulevard Eastbound				
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
07:00 AM	1	2	0	3	1	0	7	8	0	1	0	1	0	0	0	0	12
07:15 AM	2	7	0	9	1	2	4	7	0	1	1	2	0	0	2	2	20
07:30 AM	0	0	0	0	2	0	5	7	0	0	2	2	0	1	0	1	10
07:45 AM	3	2	0	5	1	0	2	3	0	5	2	7	1	1	0	2	17
Total	6	11	0	17	5	2	18	25	0	7	5	12	1	2	2	5	59
08:00 AM	6	1	0	7	0	0	1	1	0	2	2	4	0	1	0	1	13
08:15 AM	0	1	0	1	0	0	4	4	0	1	2	3	0	0	0	0	8
08:30 AM	1	0	1	2	1	0	2	3	1	1	0	2	0	0	1	1	8
08:45 AM	2	0	0	2	0	0	0	0	0	0	2	2	0	2	1	3	7
Total	9	2	1	12	1	0	7	8	1	4	6	11	0	3	2	5	36
Grand Total	15	13	1	29	6	2	25	33	1	11	11	23	1	5	4	10	95
Apprch %	51.7	44.8	3.4		18.2	6.1	75.8		4.3	47.8	47.8		10	50	40		
Total %	15.8	13.7	1.1	30.5	6.3	2.1	26.3	34.7	1.1	11.6	11.6	24.2	1.1	5.3	4.2	10.5	

	Glen Helen Parkway Southbound				Cajon Boulevard Westbound				Glen Helen Parkway Northbound				Cajon Boulevard Eastbound				
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
Peak Hour Analysis From 07:15 AM to 08:00 AM - Peak 1 of 1																	
Peak Hour for Entire Intersection Begins at 07:15 AM																	
07:15 AM	2	7	0	9	1	2	4	7	0	1	1	2	0	0	2	2	20
07:30 AM	0	0	0	0	2	0	5	7	0	0	2	2	0	1	0	1	10
07:45 AM	3	2	0	5	1	0	2	3	0	5	2	7	1	1	0	2	17
08:00 AM	6	1	0	7	0	0	1	1	0	2	2	4	0	1	0	1	13
Total Volume	11	10	0	21	4	2	12	18	0	8	7	15	1	3	2	6	60
% App. Total	52.4	47.6	0		22.2	11.1	66.7		0	53.3	46.7		16.7	50	33.3		
PHF	.458	.357	.000	.583	.500	.250	.600	.643	.000	.400	.875	.536	.250	.750	.250	.750	.750

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County of San Bernardino
N/S: Glen Helen Parkway
E/W: Cajon Boulevard
Weather: Clear

File Name : 03_CSB_GH_Cajon AM
Site Code : 00324507
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Peak Hour Analysis From 07:15 AM to 08:00 AM - Peak 1 of 1
Peak Hour for Each Approach Begins at:

	07:15 AM				07:15 AM				07:15 AM				07:15 AM			
+0 mins.	2	7	0	9	1	2	4	7	0	1	1	2	0	0	2	2
+15 mins.	0	0	0	0	2	0	5	7	0	0	2	2	0	1	0	1
+30 mins.	3	2	0	5	1	0	2	3	0	5	2	7	1	1	0	2
+45 mins.	6	1	0	7	0	0	1	1	0	2	2	4	0	1	0	1
Total Volume	11	10	0	21	4	2	12	18	0	8	7	15	1	3	2	6
% App. Total	52.4	47.6	0		22.2	11.1	66.7		0	53.3	46.7		16.7	50	33.3	
PHF	.458	.357	.000	.583	.500	.250	.600	.643	.000	.400	.875	.536	.250	.750	.250	.750

File Name : 03_CSB_GH_Cajon AM
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File Name : 03_CSB_GH_Cajon AM
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Groups Printed- 3 Axle Vehicles																		
	Glen Helen Parkway Southbound				Cajon Boulevard Westbound				Glen Helen Parkway Northbound				Cajon Boulevard Eastbound					
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total	
07:00 AM	0	0	0	0	0	0	0	0	0	0	2	2	1	0	0	1	3	
07:15 AM	1	0	0	1	1	0	0	1	0	0	0	0	0	0	0	0	2	
07:30 AM	1	0	0	1	1	0	1	2	0	0	0	0	0	0	0	0	3	
07:45 AM	1	0	1	2	0	0	0	0	0	0	0	0	0	0	0	0	2	
Total	3	0	1	4	2	0	1	3	0	0	2	2	1	0	0	1	10	
08:00 AM	1	0	0	1	1	0	1	2	0	0	0	0	0	0	0	0	3	
08:15 AM	0	0	1	1	0	1	2	3	0	0	4	4	0	0	0	0	8	
08:30 AM	2	0	0	2	2	1	1	4	0	0	1	1	0	0	0	0	7	
08:45 AM	1	1	1	3	2	0	1	3	0	0	2	2	0	0	2	2	10	
Total	4	1	2	7	5	2	5	12	0	0	7	7	0	0	2	2	28	
Grand Total	7	1	3	11	7	2	6	15	0	0	9	9	1	0	2	3	38	
Apprch %	63.6	9.1	27.3		46.7	13.3	40		0	0	100		33.3	0	66.7			
Total %	18.4	2.6	7.9	28.9	18.4	5.3	15.8	39.5	0	0	23.7	23.7	2.6	0	5.3	7.9		

[illegible]

File Name : 03_CSB_GH_Cajon AM
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The diagram illustrates the peak hour data for Glen Helen Parkway and Cajon Boulevard. A central box indicates the peak hour begins at 07:15 AM and includes 3 Axle Vehicles. A north arrow points upwards.

Glen Helen Parkway Data:

- Top Section:**
 - Out: 2, In: 5, Total: 7
 - Right: 1, Thru: 0, Left: 4
- Bottom Section:**
 - Left: 0, Thru: 0, Right: 0
 - Out: 3, In: 0, Total: 3

Cajon Boulevard Data:

- Left Section:**
 - Out: 1, In: 0, Total: 1
 - Right: 0, Thru: 0, Left: 0
- Right Section:**
 - Out: 4, In: 5, Total: 9
 - Right: 2, Thru: 0, Left: 3

[illegible]

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County of San Bernardino
N/S: Glen Helen Parkway
E/W: Cajon Boulevard
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File Name : 03_CSB_GH_Cajon AM
Site Code : 00324507
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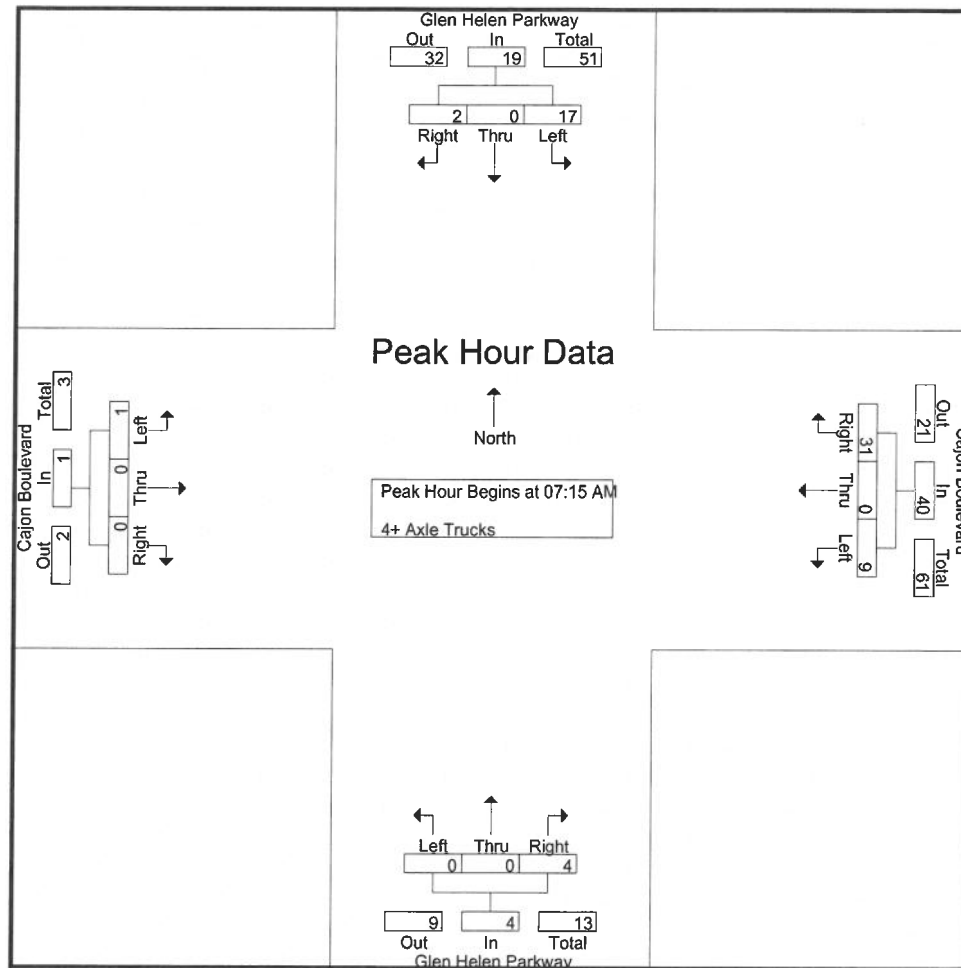
Groups Printed- 4+ Axle Trucks

	Glen Helen Parkway Southbound				Cajon Boulevard Westbound				Glen Helen Parkway Northbound				Cajon Boulevard Eastbound				
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
07:00 AM	5	1	0	6	3	0	12	15	0	0	0	0	0	0	0	0	21
07:15 AM	5	0	1	6	4	0	10	14	0	0	0	0	0	0	0	0	20
07:30 AM	4	0	0	4	2	0	8	10	0	0	0	0	1	0	0	1	15
07:45 AM	3	0	0	3	3	0	7	10	0	0	1	1	0	0	0	0	14
Total	17	1	1	19	12	0	37	49	0	0	1	1	1	0	0	1	70
08:00 AM	5	0	1	6	0	0	6	6	0	0	3	3	0	0	0	0	15
08:15 AM	3	0	0	3	4	0	5	9	0	0	0	0	0	0	0	0	12
08:30 AM	3	0	0	3	2	0	11	13	0	0	2	2	1	0	0	1	19
08:45 AM	3	0	1	4	3	0	5	8	0	1	2	3	1	0	0	1	16
Total	14	0	2	16	9	0	27	36	0	1	7	8	2	0	0	2	62
Grand Total	31	1	3	35	21	0	64	85	0	1	8	9	3	0	0	3	132
Apprch %	88.6	2.9	8.6		24.7	0	75.3		0	11.1	88.9		100	0	0		
Total %	23.5	0.8	2.3	26.5	15.9	0	48.5	64.4	0	0.8	6.1	6.8	2.3	0	0	2.3	

	Glen Helen Parkway Southbound				Cajon Boulevard Westbound				Glen Helen Parkway Northbound				Cajon Boulevard Eastbound				
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
Peak Hour Analysis From 07:15 AM to 08:00 AM - Peak 1 of 1																	
Peak Hour for Entire Intersection Begins at 07:15 AM																	
07:15 AM	5	0	1	6	4	0	10	14	0	0	0	0	0	0	0	0	20
07:30 AM	4	0	0	4	2	0	8	10	0	0	0	0	1	0	0	1	15
07:45 AM	3	0	0	3	3	0	7	10	0	0	1	1	0	0	0	0	14
08:00 AM	5	0	1	6	0	0	6	6	0	0	3	3	0	0	0	0	15
Total Volume	17	0	2	19	9	0	31	40	0	0	4	4	1	0	0	1	64
% App. Total	89.5	0	10.5		22.5	0	77.5		0	0	100		100	0	0		
PHF	.850	.000	.500	.792	.563	.000	.775	.714	.000	.000	.333	.333	.250	.000	.000	.250	.800

County of San Bernardino
N/S: Glen Helen Parkway
E/W: Cajon Boulevard
Weather: Clear

File Name : 03_CSB_GH_Cajon AM
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Peak Hour Analysis From 07:15 AM to 08:00 AM - Peak 1 of 1
Peak Hour for Each Approach Begins at:

	07:15 AM				07:15 AM				07:15 AM				07:15 AM			
+0 mins.	5	0	1	6	4	0	10	14	0	0	0	0	0	0	0	0
+15 mins.	4	0	0	4	2	0	8	10	0	0	0	0	1	0	0	1
+30 mins.	3	0	0	3	3	0	7	10	0	0	1	1	0	0	0	0
+45 mins.	5	0	1	6	0	0	6	6	0	0	3	3	0	0	0	0
Total Volume	17	0	2	19	9	0	31	40	0	0	4	4	1	0	0	1
% App. Total	89.5	0	10.5		22.5	0	77.5		0	0	100		100	0	0	
PHF	.850	.000	.500	.792	.563	.000	.775	.714	.000	.000	.333	.333	.250	.000	.000	.250

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County of San Bernardino
N/S: Glen Helen Parkway
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Weather: Clear

File Name : 03_CSB_GH_Cajon PM
Site Code : 00324507
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Groups Printed- Passenger Vehicles - Large 2 Axle Vehicles - 3 Axle Vehicles - 4+ Axle Trucks

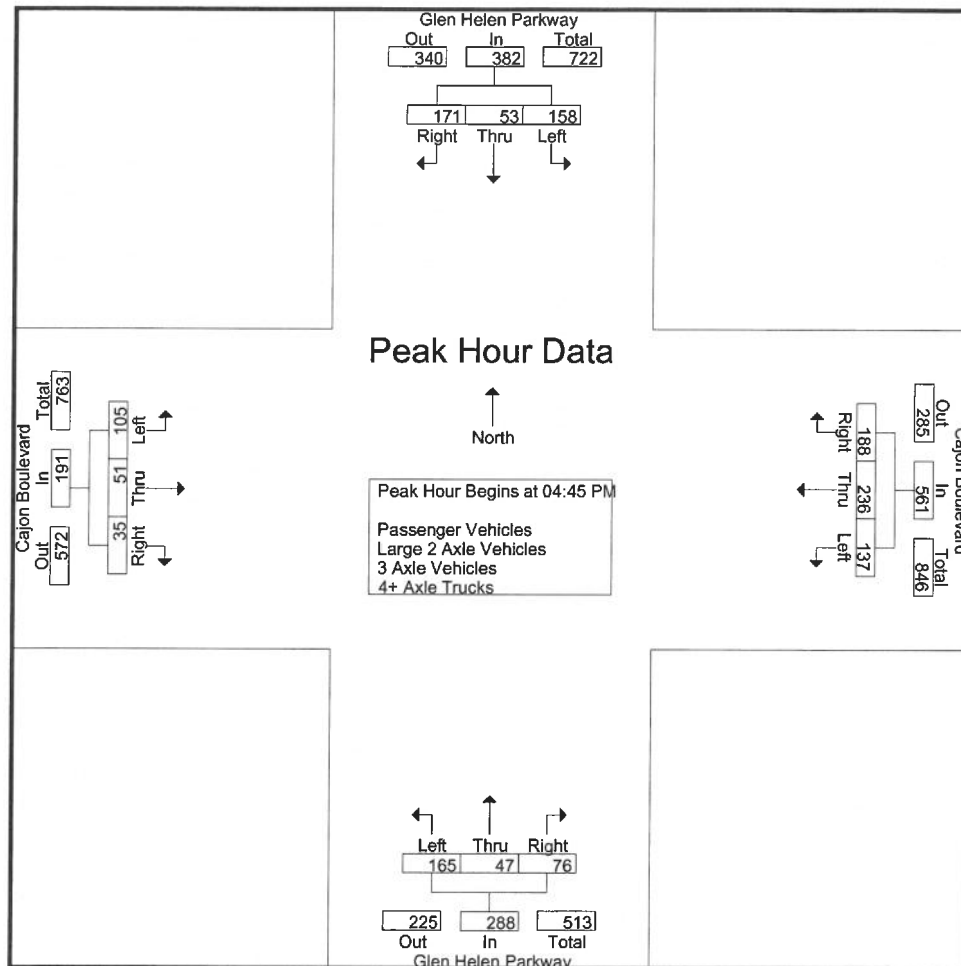
	Glen Helen Parkway Southbound				Cajon Boulevard Westbound				Glen Helen Parkway Northbound				Cajon Boulevard Eastbound				
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
04:00 PM	36	13	54	103	35	53	39	127	33	12	20	65	31	12	4	47	342
04:15 PM	33	11	68	112	30	54	35	119	58	13	22	93	20	9	6	35	359
04:30 PM	35	12	65	112	30	52	57	139	40	10	23	73	24	11	9	44	368
04:45 PM	42	12	44	98	34	59	38	131	37	11	19	67	21	8	11	40	336
Total	146	48	231	425	129	218	169	516	168	46	84	298	96	40	30	166	1405
05:00 PM	37	11	40	88	26	41	47	114	53	10	19	82	28	15	7	50	334
05:15 PM	45	11	44	100	40	66	53	159	45	14	21	80	25	7	8	40	379
05:30 PM	34	19	43	96	37	70	50	157	30	12	17	59	31	21	9	61	373
05:45 PM	32	11	41	84	25	38	40	103	16	10	18	44	20	18	8	46	277
Total	148	52	168	368	128	215	190	533	144	46	75	265	104	61	32	197	1363
Grand Total	294	100	399	793	257	433	359	1049	312	92	159	563	200	101	62	363	2768
Apprch %	37.1	12.6	50.3		24.5	41.3	34.2		55.4	16.3	28.2		55.1	27.8	17.1		
Total %	10.6	3.6	14.4	28.6	9.3	15.6	13	37.9	11.3	3.3	5.7	20.3	7.2	3.6	2.2	13.1	
Passenger Vehicles	193	94	389	676	220	416	304	940	302	85	140	527	193	94	58	345	2488
% Passenger Vehicles	65.6	94	97.5	85.2	85.6	96.1	84.7	89.6	96.8	92.4	88.1	93.6	96.5	93.1	93.5	95	89.9
Large 2 Axle Vehicles	7	5	6	18	5	8	9	22	8	6	6	20	5	2	1	8	68
% Large 2 Axle Vehicles	2.4	5	1.5	2.3	1.9	1.8	2.5	2.1	2.6	6.5	3.8	3.6	2.5	2	1.6	2.2	2.5
3 Axle Vehicles	13	1	0	14	10	1	6	17	1	1	4	6	1	1	2	4	41
% 3 Axle Vehicles	4.4	1	0	1.8	3.9	0.2	1.7	1.6	0.3	1.1	2.5	1.1	0.5	1	3.2	1.1	1.5
4+ Axle Trucks	81	0	4	85	22	8	40	70	1	0	9	10	1	4	1	6	171
% 4+ Axle Trucks	27.6	0	1	10.7	8.6	1.8	11.1	6.7	0.3	0	5.7	1.8	0.5	4	1.6	1.7	6.2

	Glen Helen Parkway Southbound				Cajon Boulevard Westbound				Glen Helen Parkway Northbound				Cajon Boulevard Eastbound				
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
Peak Hour Analysis From 04:00 PM to 05:45 PM - Peak 1 of 1																	
Peak Hour for Entire Intersection Begins at 04:45 PM																	
04:45 PM	42	12	44	98	34	59	38	131	37	11	19	67	21	8	11	40	336
05:00 PM	37	11	40	88	26	41	47	114	53	10	19	82	28	15	7	50	334
05:15 PM	45	11	44	100	40	66	53	159	45	14	21	80	25	7	8	40	379
05:30 PM	34	19	43	96	37	70	50	157	30	12	17	59	31	21	9	61	373
Total Volume	158	53	171	382	137	236	188	561	165	47	76	288	105	51	35	191	1422
% App. Total	41.4	13.9	44.8		24.4	42.1	33.5		57.3	16.3	26.4		55	26.7	18.3		
PHF	.878	.697	.972	.955	.856	.843	.887	.882	.778	.839	.905	.878	.847	.607	.795	.783	.938

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File Name : 03_CSB_GH_Cajon PM
Site Code : 00324507
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Peak Hour Analysis From 04:00 PM to 05:45 PM - Peak 1 of 1
Peak Hour for Each Approach Begins at:

	04:00 PM				04:45 PM				04:15 PM				05:00 PM			
+0 mins.	36	13	54	103	34	59	38	131	58	13	22	93	28	15	7	50
+15 mins.	33	11	68	112	26	41	47	114	40	10	23	73	25	7	8	40
+30 mins.	35	12	65	112	40	66	53	159	37	11	19	67	31	21	9	61
+45 mins.	42	12	44	98	37	70	50	157	53	10	19	82	20	18	8	46
Total Volume	146	48	231	425	137	236	188	561	188	44	83	315	104	61	32	197
% App. Total	34.4	11.3	54.4		24.4	42.1	33.5		59.7	14	26.3		52.8	31	16.2	
PHF	.869	.923	.849	.949	.856	.843	.887	.882	.810	.846	.902	.847	.839	.726	.889	.807

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File Name : 03_CSB_GH_Cajon PM
Site Code : 00324507
Start Date : 5/21/2024
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Groups Printed- Passenger Vehicles

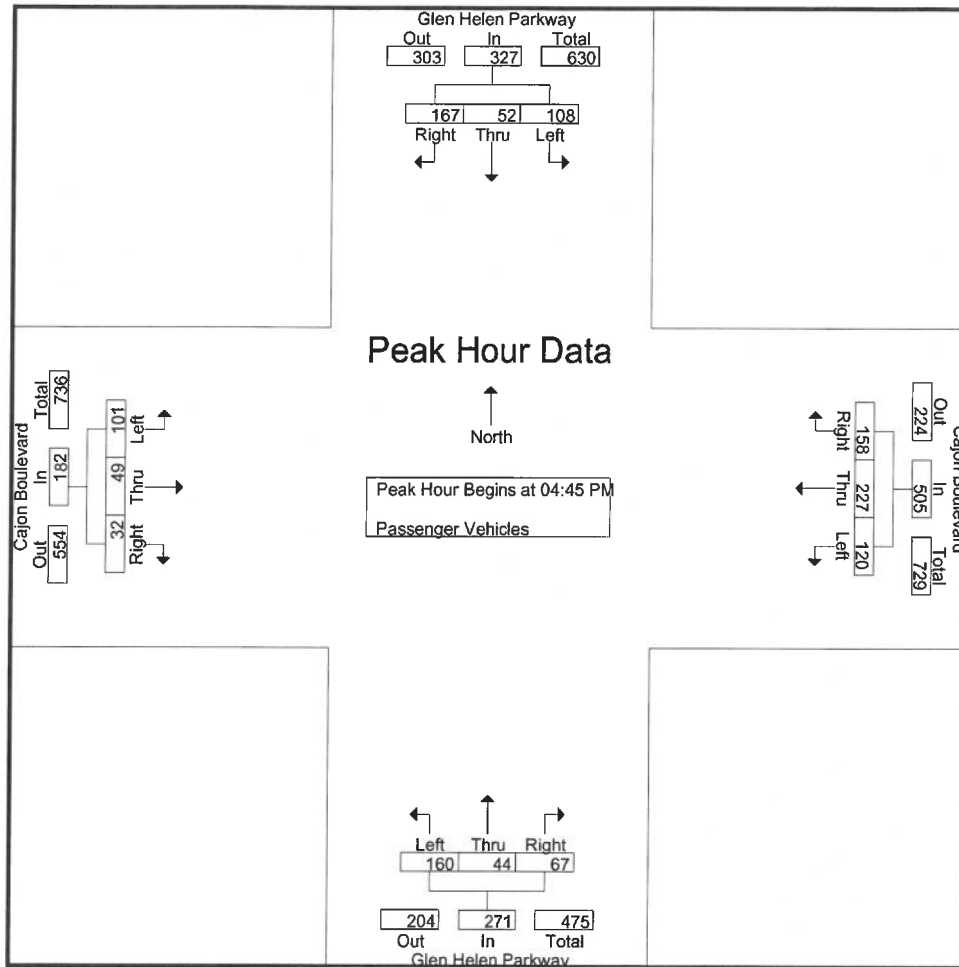
	Glen Helen Parkway Southbound				Cajon Boulevard Westbound				Glen Helen Parkway Northbound				Cajon Boulevard Eastbound				
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
04:00 PM	17	11	50	78	29	51	33	113	33	11	19	63	29	11	4	44	298
04:15 PM	28	9	67	104	27	50	32	109	56	11	19	86	20	7	6	33	332
04:30 PM	21	12	64	97	24	51	47	122	38	10	20	68	23	10	9	42	329
04:45 PM	29	12	43	84	26	59	29	114	35	8	17	60	18	8	10	36	294
Total	95	44	224	363	106	211	141	458	162	40	75	277	90	36	29	155	1253
05:00 PM	29	11	39	79	23	41	38	102	53	10	16	79	27	14	7	48	308
05:15 PM	29	11	44	84	38	59	47	144	43	14	17	74	25	7	7	39	341
05:30 PM	21	18	41	80	33	68	44	145	29	12	17	58	31	20	8	59	342
05:45 PM	19	10	41	70	20	37	34	91	15	9	15	39	20	17	7	44	244
Total	98	50	165	313	114	205	163	482	140	45	65	250	103	58	29	190	1235
Grand Total	193	94	389	676	220	416	304	940	302	85	140	527	193	94	58	345	2488
Apprch %	28.6	13.9	57.5		23.4	44.3	32.3		57.3	16.1	26.6		55.9	27.2	16.8		
Total %	7.8	3.8	15.6	27.2	8.8	16.7	12.2	37.8	12.1	3.4	5.6	21.2	7.8	3.8	2.3	13.9	

	Glen Helen Parkway Southbound				Cajon Boulevard Westbound				Glen Helen Parkway Northbound				Cajon Boulevard Eastbound				
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
Peak Hour Analysis From 04:45 PM to 05:30 PM - Peak 1 of 1																	
Peak Hour for Entire Intersection Begins at 04:45 PM																	
04:45 PM	29	12	43	84	26	59	29	114	35	8	17	60	18	8	10	36	294
05:00 PM	29	11	39	79	23	41	38	102	53	10	16	79	27	14	7	48	308
05:15 PM	29	11	44	84	38	59	47	144	43	14	17	74	25	7	7	39	341
05:30 PM	21	18	41	80	33	68	44	145	29	12	17	58	31	20	8	59	342
Total Volume	108	52	167	327	120	227	158	505	160	44	67	271	101	49	32	182	1285
% App. Total	33	15.9	51.1		23.8	45	31.3		59	16.2	24.7		55.5	26.9	17.6		
PHF	.931	.722	.949	.973	.789	.835	.840	.871	.755	.786	.985	.858	.815	.613	.800	.771	.939

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County of San Bernardino
N/S: Glen Helen Parkway
E/W: Cajon Boulevard
Weather: Clear

File Name : 03_CSB_GH_Cajon PM
Site Code : 00324507
Start Date : 5/21/2024
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Peak Hour Analysis From 04:45 PM to 05:30 PM - Peak 1 of 1
Peak Hour for Each Approach Begins at:

	04:45 PM				04:45 PM				04:45 PM				04:45 PM			
+0 mins.	29	12	43	84	26	59	29	114	35	8	17	60	18	8	10	36
+15 mins.	29	11	39	79	23	41	38	102	53	10	16	79	27	14	7	48
+30 mins.	29	11	44	84	38	59	47	144	43	14	17	74	25	7	7	39
+45 mins.	21	18	41	80	33	68	44	145	29	12	17	58	31	20	8	59
Total Volume	108	52	167	327	120	227	158	505	160	44	67	271	101	49	32	182
% App. Total	33	15.9	51.1		23.8	45	31.3		59	16.2	24.7		55.5	26.9	17.6	
PHF	.931	.722	.949	.973	.789	.835	.840	.871	.755	.786	.985	.858	.815	.613	.800	.771

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County of San Bernardino
N/S: Glen Helen Parkway
E/W: Cajon Boulevard
Weather: Clear

File Name : 03_CSB_GH_Cajon PM
Site Code : 00324507
Start Date : 5/21/2024
Page No : 1

Groups Printed- Large 2 Axle Vehicles

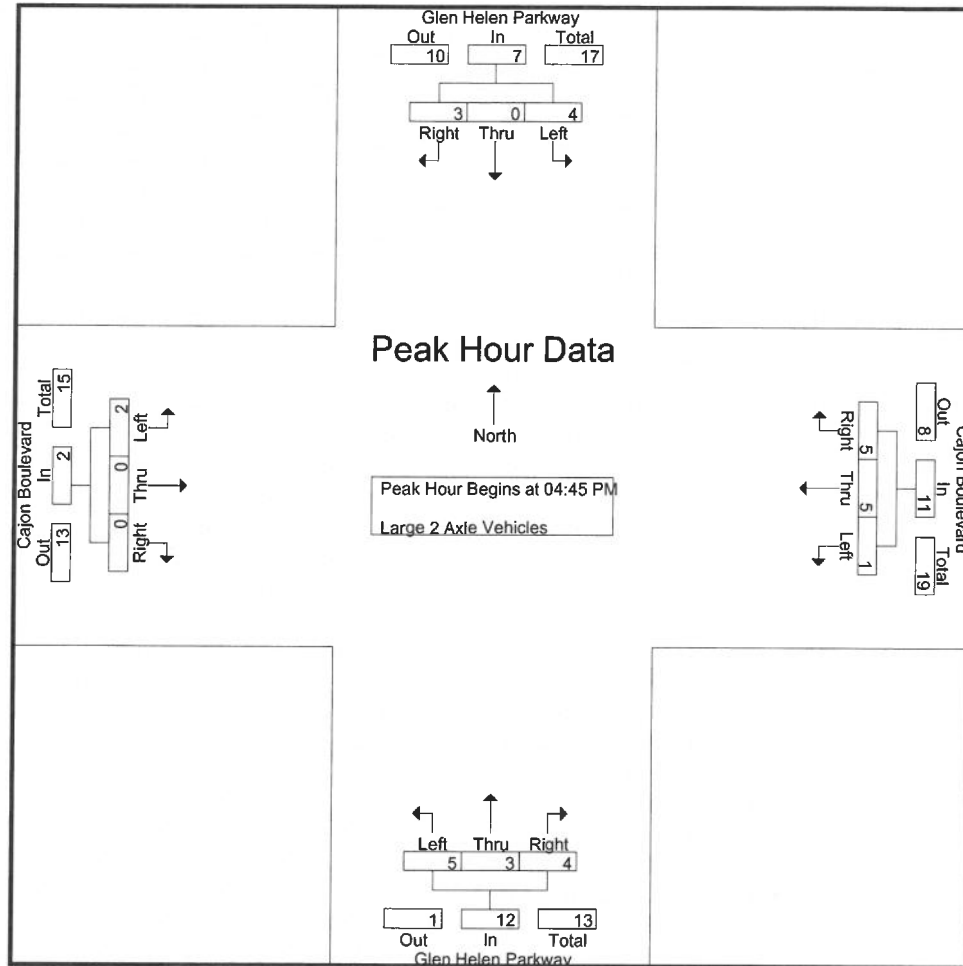
	Glen Helen Parkway Southbound				Cajon Boulevard Westbound				Glen Helen Parkway Northbound				Cajon Boulevard Eastbound				
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
04:00 PM	3	2	2	7	3	1	1	5	0	1	0	1	2	0	0	2	15
04:15 PM	0	2	0	2	1	1	0	2	1	2	1	4	0	1	0	1	9
04:30 PM	0	0	1	1	0	0	3	3	1	0	1	2	1	0	0	1	7
04:45 PM	2	0	1	3	1	0	0	1	2	3	2	7	2	0	0	2	13
Total	5	4	4	13	5	2	4	11	4	6	4	14	5	1	0	6	44
05:00 PM	0	0	1	1	0	0	2	2	0	0	2	2	0	0	0	0	5
05:15 PM	2	0	0	2	0	3	2	5	2	0	0	2	0	0	0	0	9
05:30 PM	0	0	1	1	0	2	1	3	1	0	0	1	0	0	0	0	5
05:45 PM	0	1	0	1	0	1	0	1	1	0	0	1	0	1	1	2	5
Total	2	1	2	5	0	6	5	11	4	0	2	6	0	1	1	2	24
Grand Total	7	5	6	18	5	8	9	22	8	6	6	20	5	2	1	8	68
Apprch %	38.9	27.8	33.3		22.7	36.4	40.9		40	30	30		62.5	25	12.5		
Total %	10.3	7.4	8.8	26.5	7.4	11.8	13.2	32.4	11.8	8.8	8.8	29.4	7.4	2.9	1.5	11.8	

	Glen Helen Parkway Southbound				Cajon Boulevard Westbound				Glen Helen Parkway Northbound				Cajon Boulevard Eastbound				
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
Peak Hour Analysis From 04:45 PM to 05:30 PM - Peak 1 of 1																	
Peak Hour for Entire Intersection Begins at 04:45 PM																	
04:45 PM	2	0	1	3	1	0	0	1	2	3	2	7	2	0	0	2	13
05:00 PM	0	0	1	1	0	0	2	2	0	0	2	2	0	0	0	0	5
05:15 PM	2	0	0	2	0	3	2	5	2	0	0	2	0	0	0	0	9
05:30 PM	0	0	1	1	0	2	1	3	1	0	0	1	0	0	0	0	5
Total Volume	4	0	3	7	1	5	5	11	5	3	4	12	2	0	0	2	32
% App. Total	57.1	0	42.9		9.1	45.5	45.5		41.7	25	33.3		100	0	0		
PHF	.500	.000	.750	.583	.250	.417	.625	.550	.625	.250	.500	.429	.250	.000	.000	.250	.615

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File Name : 03_CSB_GH_Cajon PM
Site Code : 00324507
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Peak Hour Analysis From 04:45 PM to 05:30 PM - Peak 1 of 1
Peak Hour for Each Approach Begins at:

	04:45 PM				04:45 PM				04:45 PM				04:45 PM			
+0 mins.	2	0	1	3	1	0	0	1	2	3	2	7	2	0	0	2
+15 mins.	0	0	1	1	0	0	2	2	0	0	2	2	0	0	0	0
+30 mins.	2	0	0	2	0	3	2	5	2	0	0	2	0	0	0	0
+45 mins.	0	0	1	1	0	2	1	3	1	0	0	1	0	0	0	0
Total Volume	4	0	3	7	1	5	5	11	5	3	4	12	2	0	0	2
% App. Total	57.1	0	42.9		9.1	45.5	45.5		41.7	25	33.3		100	0	0	
PHF	.500	.000	.750	.583	.250	.417	.625	.550	.625	.250	.500	.429	.250	.000	.000	.250

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County of San Bernardino
N/S: Glen Helen Parkway
E/W: Cajon Boulevard
Weather: Clear

File Name : 03_CSB_GH_Cajon PM
Site Code : 00324507
Start Date : 5/21/2024
Page No : 1

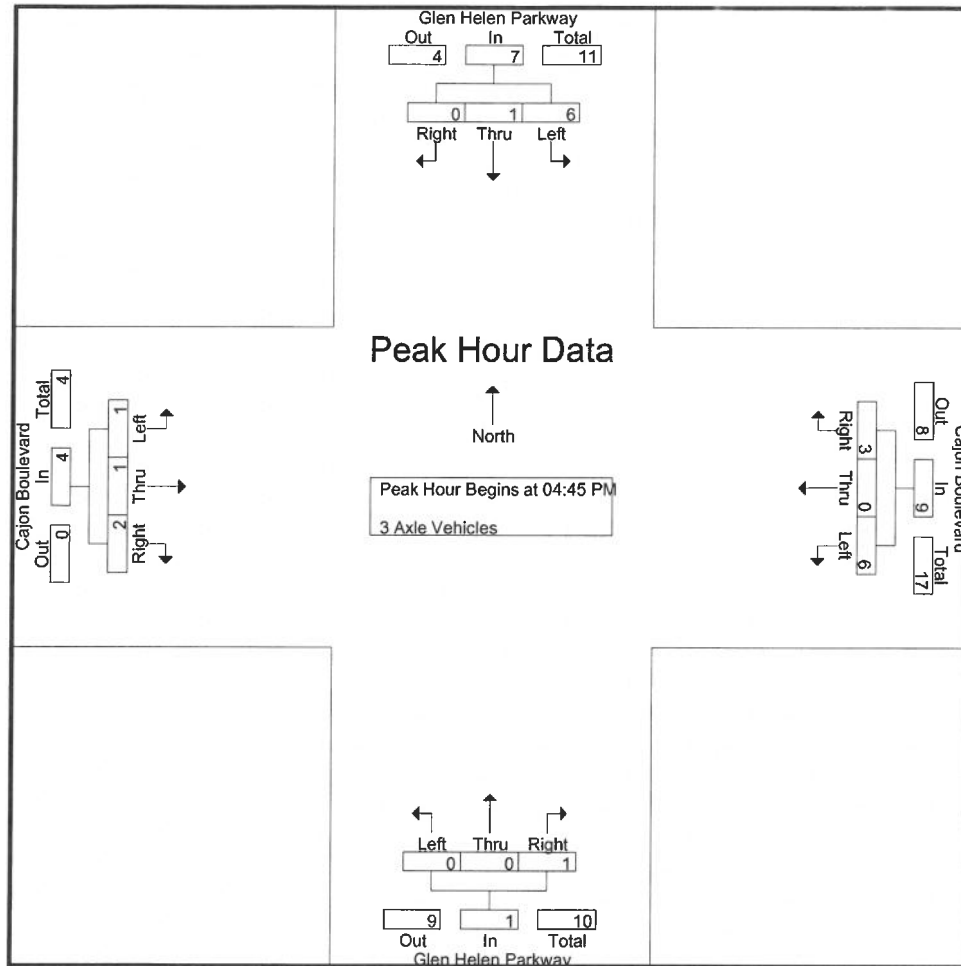
Groups Printed- 3 Axle Vehicles

	Glen Helen Parkway Southbound				Cajon Boulevard Westbound				Glen Helen Parkway Northbound				Cajon Boulevard Eastbound				
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
04:00 PM	2	0	0	2	0	0	1	1	0	0	0	0	0	0	0	0	3
04:15 PM	1	0	0	1	2	1	0	3	0	0	0	0	0	0	0	0	4
04:30 PM	3	0	0	3	2	0	0	2	1	0	1	2	0	0	0	0	7
04:45 PM	2	0	0	2	4	0	2	6	0	0	0	0	0	0	1	1	9
Total	8	0	0	8	8	1	3	12	1	0	1	2	0	0	1	1	23
05:00 PM	0	0	0	0	0	0	1	1	0	0	1	1	1	0	0	1	3
05:15 PM	2	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	2
05:30 PM	2	1	0	3	2	0	0	2	0	0	0	0	0	1	1	2	7
05:45 PM	1	0	0	1	0	0	2	2	0	1	2	3	0	0	0	0	6
Total	5	1	0	6	2	0	3	5	0	1	3	4	1	1	1	3	18
Grand Total	13	1	0	14	10	1	6	17	1	1	4	6	1	1	2	4	41
Apprch %	92.9	7.1	0		58.8	5.9	35.3		16.7	16.7	66.7		25	25	50		
Total %	31.7	2.4	0	34.1	24.4	2.4	14.6	41.5	2.4	2.4	9.8	14.6	2.4	2.4	4.9	9.8	

	Glen Helen Parkway Southbound				Cajon Boulevard Westbound				Glen Helen Parkway Northbound				Cajon Boulevard Eastbound				
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
Peak Hour Analysis From 04:45 PM to 05:30 PM - Peak 1 of 1																	
Peak Hour for Entire Intersection Begins at 04:45 PM																	
04:45 PM	2	0	0	2	4	0	2	6	0	0	0	0	0	0	1	1	9
05:00 PM	0	0	0	0	0	0	1	1	0	0	1	1	1	0	0	1	3
05:15 PM	2	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	2
05:30 PM	2	1	0	3	2	0	0	2	0	0	0	0	0	1	1	2	7
Total Volume	6	1	0	7	6	0	3	9	0	0	1	1	1	1	2	4	21
% App. Total	85.7	14.3	0		66.7	0	33.3		0	0	100		25	25	50		
PHF	.750	.250	.000	.583	.375	.000	.375	.375	.000	.000	.250	.250	.250	.250	.500	.500	.583

County of San Bernardino
N/S: Glen Helen Parkway
E/W: Cajon Boulevard
Weather: Clear

File Name : 03_CSB_GH_Cajon PM
Site Code : 00324507
Start Date : 5/21/2024
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Peak Hour Analysis From 04:45 PM to 05:30 PM - Peak 1 of 1
Peak Hour for Each Approach Begins at:

	04:45 PM				04:45 PM				04:45 PM				04:45 PM			
+0 mins.	2	0	0	2	4	0	2	6	0	0	0	0	0	0	1	1
+15 mins.	0	0	0	0	0	0	1	1	0	0	1	1	1	0	0	1
+30 mins.	2	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0
+45 mins.	2	1	0	3	2	0	0	2	0	0	0	0	0	1	1	2
Total Volume	6	1	0	7	6	0	3	9	0	0	1	1	1	1	2	4
% App. Total	85.7	14.3	0		66.7	0	33.3		0	0	100		25	25	50	
PHF	.750	.250	.000	.583	.375	.000	.375	.375	.000	.000	.250	.250	.250	.250	.500	.500

File Name : 03_CSB_GH_Cajon PM
Site Code : 00324507
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File Name : 03_CSB_GH_Cajon PM
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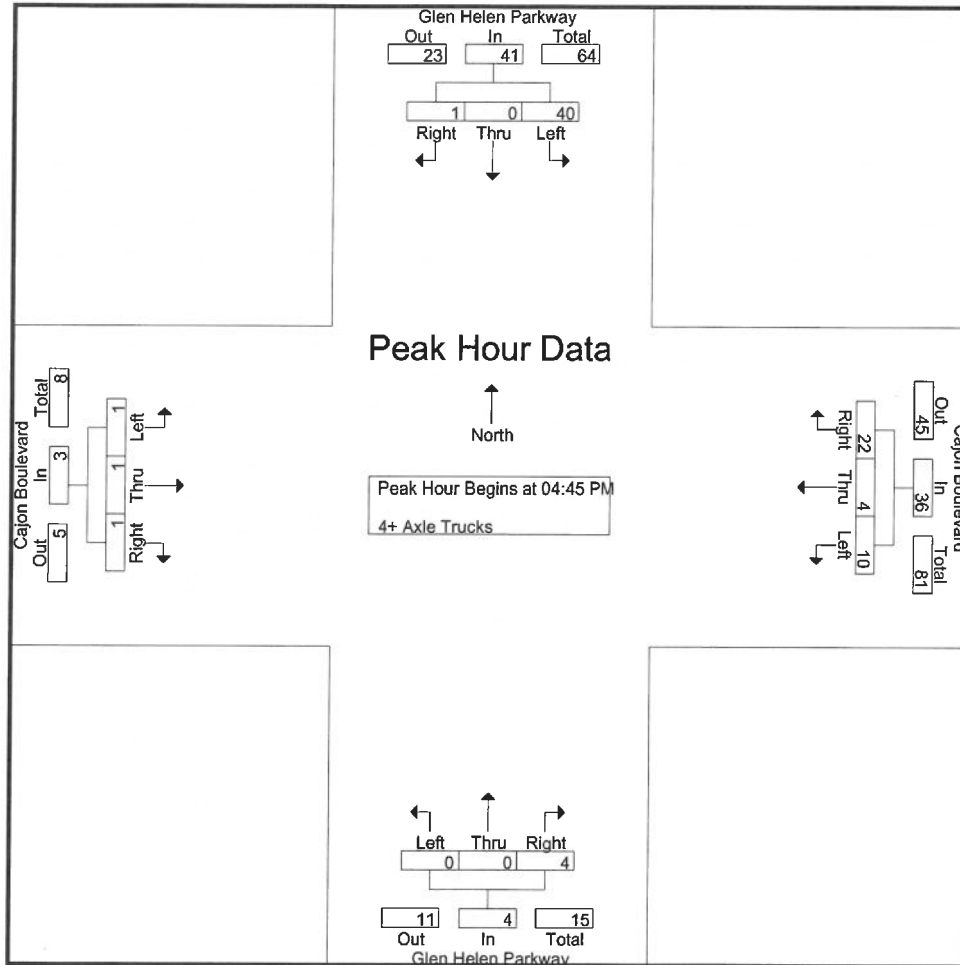
	Glen Helen Parkway Southbound				Cajon Boulevard Westbound				Glen Helen Parkway Northbound				Cajon Boulevard Eastbound				
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
04:00 PM	14	0	2	16	3	1	4	8	0	0	1	1	0	1	0	1	26
04:15 PM	4	0	1	5	0	2	3	5	1	0	2	3	0	1	0	1	14
04:30 PM	11	0	0	11	4	1	7	12	0	0	1	1	0	1	0	1	25
04:45 PM	9	0	0	9	3	0	7	10	0	0	0	0	1	0	0	1	20
Total	38	0	3	41	10	4	21	35	1	0	4	5	1	3	0	4	85
05:00 PM	8	0	0	8	3	0	6	9	0	0	0	0	0	1	0	1	18
05:15 PM	12	0	0	12	2	4	4	10	0	0	4	4	0	0	1	1	27
05:30 PM	11	0	1	12	2	0	5	7	0	0	0	0	0	0	0	0	19
05:45 PM	12	0	0	12	5	0	4	9	0	0	1	1	0	0	0	0	22
Total	43	0	1	44	12	4	19	35	0	0	5	5	0	1	1	2	86
Grand Total	81	0	4	85	22	8	40	70	1	0	9	10	1	4	1	6	171
Apprch %	95.3	0	4.7		31.4	11.4	57.1		10	0	90		16.7	66.7	16.7		
Total %	47.4	0	2.3	49.7	12.9	4.7	23.4	40.9	0.6	0	5.3	5.8	0.6	2.3	0.6	3.5	

[illegible]

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County of San Bernardino
N/S: Glen Helen Parkway
E/W: Cajon Boulevard
Weather: Clear

File Name : 03_CSB_GH_Cajon PM
Site Code : 00324507
Start Date : 5/21/2024
Page No : 2



Peak Hour Analysis From 04:45 PM to 05:30 PM - Peak 1 of 1
Peak Hour for Each Approach Begins at:

	04:45 PM				04:45 PM				04:45 PM				04:45 PM			
+0 mins.	9	0	0	9	3	0	7	10	0	0	0	0	1	0	0	1
+15 mins.	8	0	0	8	3	0	6	9	0	0	0	0	0	1	0	1
+30 mins.	12	0	0	12	2	4	4	10	0	0	4	4	0	0	1	1
+45 mins.	11	0	1	12	2	0	5	7	0	0	0	0	0	0	0	0
Total Volume	40	0	1	41	10	4	22	36	0	0	4	4	1	1	1	3
% App. Total	97.6	0	2.4		27.8	11.1	61.1		0	0	100		33.3	33.3	33.3	
PHF	.833	.000	.250	.854	.833	.250	.786	.900	.000	.000	.250	.250	.250	.250	.250	.750

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County of San Bernardino
N/S: Glen Helen Parkway
E/W: Glen Helen Regional Park Gate #4
Weather: Clear

File Name : 04_CSB_GH_GHRP #4 AM
Site Code : 00324507
Start Date : 5/21/2024
Page No : 1

Groups Printed- Total Volume

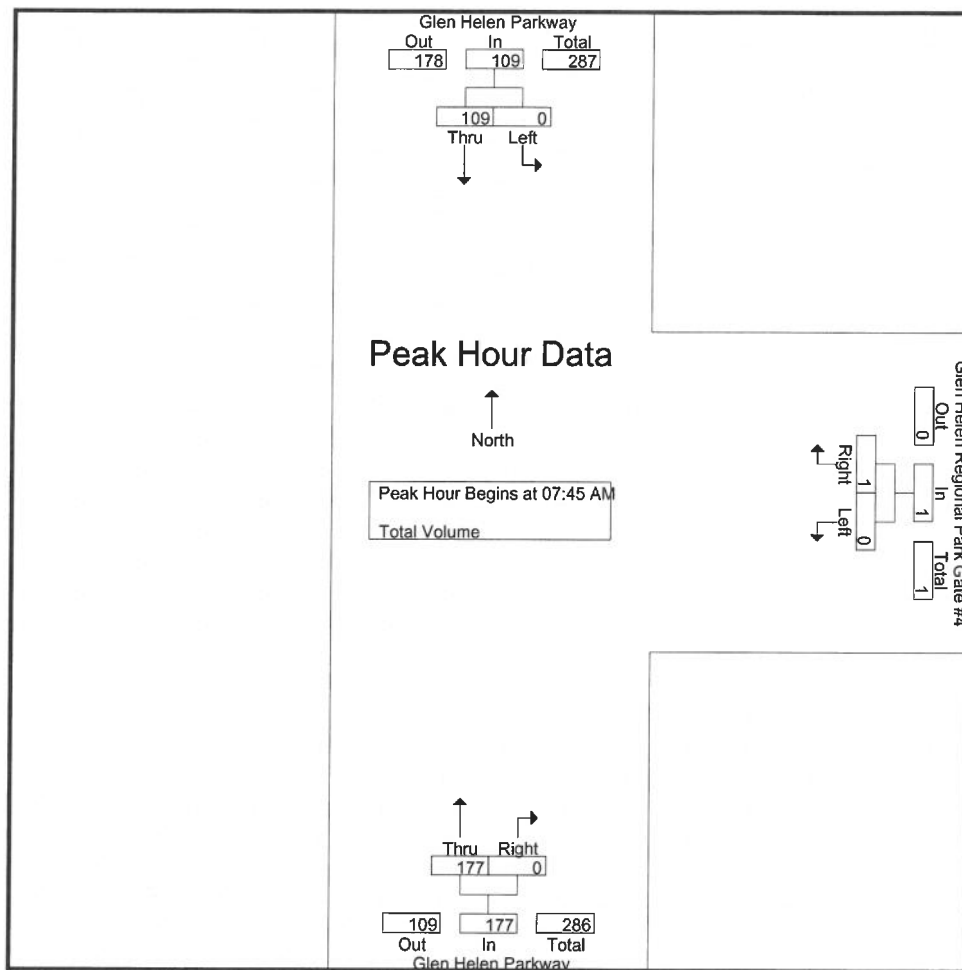
Start Time	Glen Helen Parkway Southbound			Glen Helen Regional Park Gate #4 Westbound			Glen Helen Parkway Northbound			Int. Total
	Left	Thru	App. Total	Left	Right	App. Total	Thru	Right	App. Total	
07:00 AM	0	35	35	0	0	0	20	0	20	55
07:15 AM	0	40	40	0	0	0	26	0	26	66
07:30 AM	0	32	32	0	0	0	31	0	31	63
07:45 AM	0	35	35	0	0	0	47	0	47	82
Total	0	142	142	0	0	0	124	0	124	266
08:00 AM	0	15	15	0	1	1	40	0	40	56
08:15 AM	0	32	32	0	0	0	40	0	40	72
08:30 AM	0	27	27	0	0	0	50	0	50	77
08:45 AM	0	47	47	0	0	0	26	0	26	73
Total	0	121	121	0	1	1	156	0	156	278
Grand Total	0	263	263	0	1	1	280	0	280	544
Apprch %	0	100		0	100		100	0		
Total %	0	48.3	48.3	0	0.2	0.2	51.5	0	51.5	

	Glen Helen Parkway Southbound			Glen Helen Regional Park Gate #4 Westbound			Glen Helen Parkway Northbound			
Start Time	Left	Thru	App. Total	Left	Right	App. Total	Thru	Right	App. Total	Int. Total
Peak Hour Analysis From 07:00 AM to 08:45 AM - Peak 1 of 1										
Peak Hour for Entire Intersection Begins at 07:45 AM										
07:45 AM	0	35	35	0	0	0	47	0	47	82
08:00 AM	0	15	15	0	1	1	40	0	40	56
08:15 AM	0	32	32	0	0	0	40	0	40	72
08:30 AM	0	27	27	0	0	0	50	0	50	77
Total Volume	0	109	109	0	1	1	177	0	177	287
% App. Total	0	100		0	100		100	0		
PHF	.000	.779	.779	.000	.250	.250	.885	.000	.885	.875

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County of San Bernardino
N/S: Glen Helen Parkway
E/W: Glen Helen Regional Park Gate #4
Weather: Clear

File Name : 04_CSB_GH_GHRP #4 AM
Site Code : 00324507
Start Date : 5/21/2024
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Peak Hour Analysis From 07:00 AM to 08:45 AM - Peak 1 of 1

Peak Hour for Each Approach Begins at:

	07:00 AM			07:15 AM			07:45 AM		
+0 mins.	0	35	35	0	0	0	47	0	47
+15 mins.	0	40	40	0	0	0	40	0	40
+30 mins.	0	32	32	0	0	0	40	0	40
+45 mins.	0	35	35	0	1	1	50	0	50
Total Volume	0	142	142	0	1	1	177	0	177
% App. Total	0	100		0	100		100	0	
PHF	.000	.888	.888	.000	.250	.250	.885	.000	.885

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County of San Bernardino
N/S: Glen Helen Parkway
E/W: Glen Helen Regional Park Gate #4
Weather: Clear

File Name : 04_CSB_GH_GHRP #4 PM
Site Code : 00324507
Start Date : 5/21/2024
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Groups Printed- Total Volume

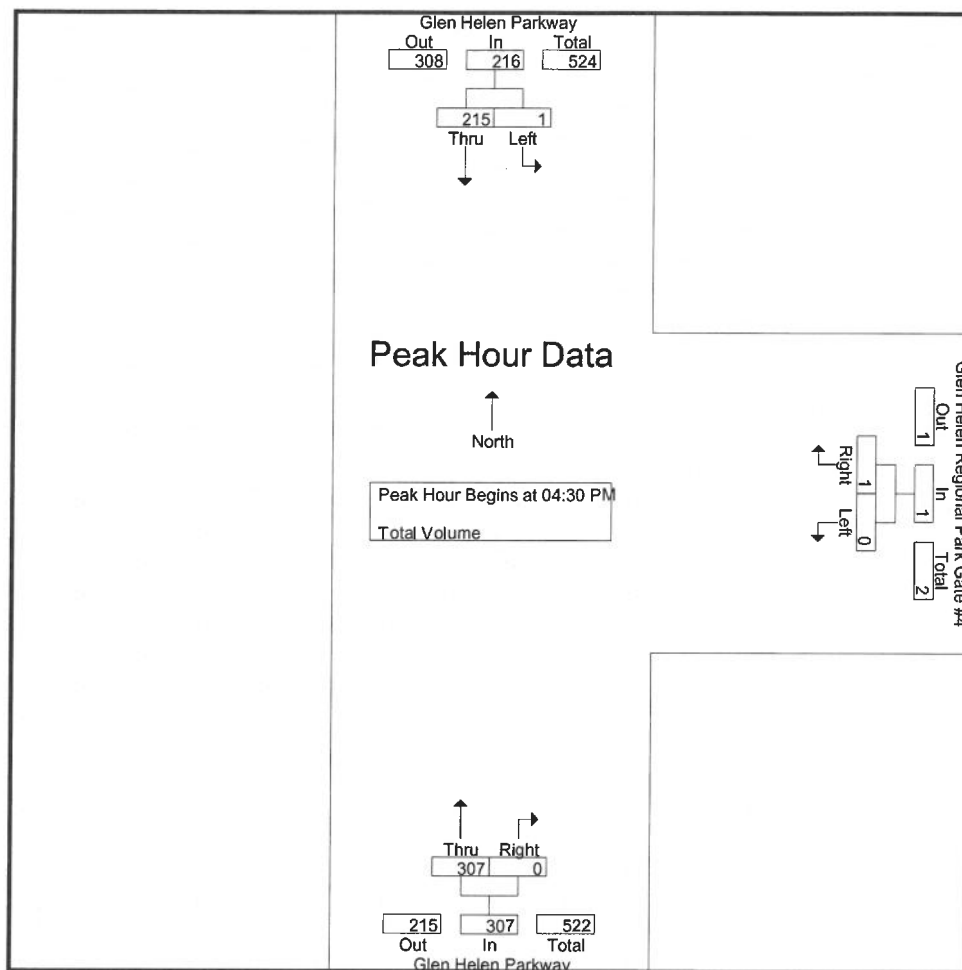
Start Time	Glen Helen Parkway Southbound			Glen Helen Regional Park Gate #4 Westbound			Glen Helen Parkway Northbound			Int. Total
	Left	Thru	App. Total	Left	Right	App. Total	Thru	Right	App. Total	
04:00 PM	0	52	52	0	0	0	62	0	62	114
04:15 PM	0	47	47	0	0	0	90	0	90	137
04:30 PM	0	51	51	0	0	0	71	0	71	122
04:45 PM	0	58	58	0	0	0	72	0	72	130
Total	0	208	208	0	0	0	295	0	295	503
05:00 PM	1	43	44	0	1	1	85	0	85	130
05:15 PM	0	63	63	0	0	0	79	0	79	142
05:30 PM	1	58	59	1	0	1	54	1	55	115
05:45 PM	0	41	41	0	1	1	47	2	49	91
Total	2	205	207	1	2	3	265	3	268	478
Grand Total	2	413	415	1	2	3	560	3	563	981
Apprch %	0.5	99.5		33.3	66.7		99.5	0.5		
Total %	0.2	42.1	42.3	0.1	0.2	0.3	57.1	0.3	57.4	

	Glen Helen Parkway Southbound			Glen Helen Regional Park Gate #4 Westbound			Glen Helen Parkway Northbound			
Start Time	Left	Thru	App. Total	Left	Right	App. Total	Thru	Right	App. Total	Int. Total
Peak Hour Analysis From 04:00 PM to 05:45 PM - Peak 1 of 1										
Peak Hour for Entire Intersection Begins at 04:30 PM										
04:30 PM	0	51	51	0	0	0	71	0	71	122
04:45 PM	0	58	58	0	0	0	72	0	72	130
05:00 PM	1	43	44	0	1	1	85	0	85	130
05:15 PM	0	63	63	0	0	0	79	0	79	142
Total Volume	1	215	216	0	1	1	307	0	307	524
% App. Total	0.5	99.5		0	100		100	0		
PHF	.250	.853	.857	.000	.250	.250	.903	.000	.903	.923

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County of San Bernardino
N/S: Glen Helen Parkway
E/W: Glen Helen Regional Park Gate #4
Weather: Clear

File Name : 04_CSB_GH_GHRP #4 PM
Site Code : 00324507
Start Date : 5/21/2024
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Peak Hour Analysis From 04:00 PM to 05:45 PM - Peak 1 of 1

Peak Hour for Each Approach Begins at:

	04:45 PM			05:00 PM			04:15 PM		
+0 mins.	0	58	58	0	1	1	90	0	90
+15 mins.	1	43	44	0	0	0	71	0	71
+30 mins.	0	63	63	1	0	1	72	0	72
+45 mins.	1	58	59	0	1	1	85	0	85
Total Volume	2	222	224	1	2	3	318	0	318
% App. Total	0.9	99.1		33.3	66.7		100	0	
PHF	.500	.881	.889	.250	.500	.750	.883	.000	.883

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(951) 268-6268

County of San Bernardino
N/S: Glen Helen Parkway
E/W: Glen Helen Regional Park Gate #3
Weather: Clear

File Name : 05_CSB_GH_GHRP #3 AM
Site Code : 00324507
Start Date : 5/21/2024
Page No : 1

Groups Printed- Total Volume

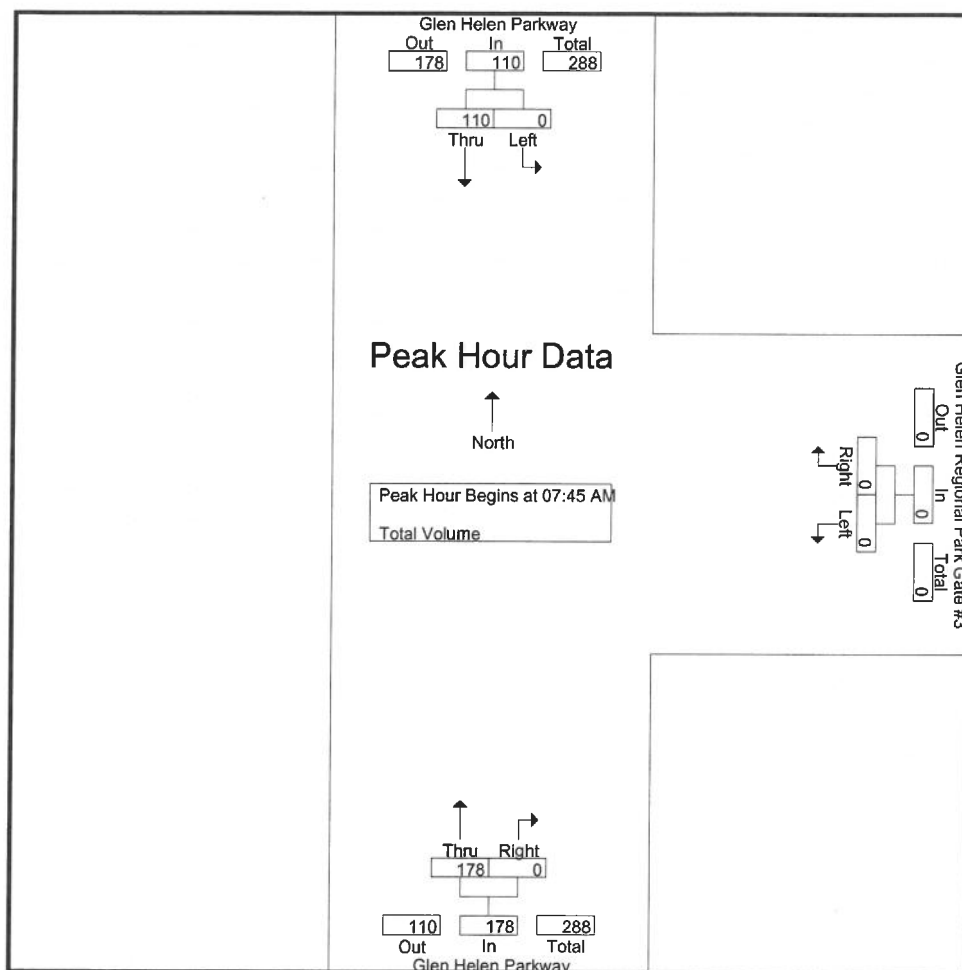
Start Time	Glen Helen Parkway Southbound			Glen Helen Regional Park Gate #3 Westbound			Glen Helen Parkway Northbound			Int. Total
	Left	Thru	App. Total	Left	Right	App. Total	Thru	Right	App. Total	
07:00 AM	0	35	35	0	0	0	20	0	20	55
07:15 AM	0	39	39	0	0	0	26	0	26	65
07:30 AM	0	35	35	0	0	0	32	0	32	67
07:45 AM	0	34	34	0	0	0	48	0	48	82
Total	0	143	143	0	0	0	126	0	126	269
08:00 AM	0	17	17	0	0	0	40	0	40	57
08:15 AM	0	32	32	0	0	0	41	0	41	73
08:30 AM	0	27	27	0	0	0	49	0	49	76
08:45 AM	0	44	44	0	0	0	26	0	26	70
Total	0	120	120	0	0	0	156	0	156	276
Grand Total	0	263	263	0	0	0	282	0	282	545
Apprch %	0	100		0	0		100	0		
Total %	0	48.3	48.3	0	0	0	51.7	0	51.7	

	Glen Helen Parkway Southbound			Glen Helen Regional Park Gate #3 Westbound			Glen Helen Parkway Northbound			
Start Time	Left	Thru	App. Total	Left	Right	App. Total	Thru	Right	App. Total	Int. Total
Peak Hour Analysis From 07:00 AM to 08:45 AM - Peak 1 of 1										
Peak Hour for Entire Intersection Begins at 07:45 AM										
07:45 AM	0	34	34	0	0	0	48	0	48	82
08:00 AM	0	17	17	0	0	0	40	0	40	57
08:15 AM	0	32	32	0	0	0	41	0	41	73
08:30 AM	0	27	27	0	0	0	49	0	49	76
Total Volume	0	110	110	0	0	0	178	0	178	288
% App. Total	0	100		0	0		100	0		
PHF	.000	.809	.809	.000	.000	.000	.908	.000	.908	.878

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Site Code : 00324507
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Peak Hour Analysis From 07:00 AM to 08:45 AM - Peak 1 of 1

Peak Hour for Each Approach Begins at:

	07:00 AM			07:00 AM			07:45 AM		
+0 mins.	0	35	35	0	0	0	48	0	48
+15 mins.	0	39	39	0	0	0	40	0	40
+30 mins.	0	35	35	0	0	0	41	0	41
+45 mins.	0	34	34	0	0	0	49	0	49
Total Volume	0	143	143	0	0	0	178	0	178
% App. Total	0	100		0	0		100	0	
PHF	.000	.917	.917	.000	.000	.000	.908	.000	.908

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File Name : 05_CSB_GH_GHRP #3 PM
Site Code : 00324507
Start Date : 5/21/2024
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Groups Printed- Total Volume

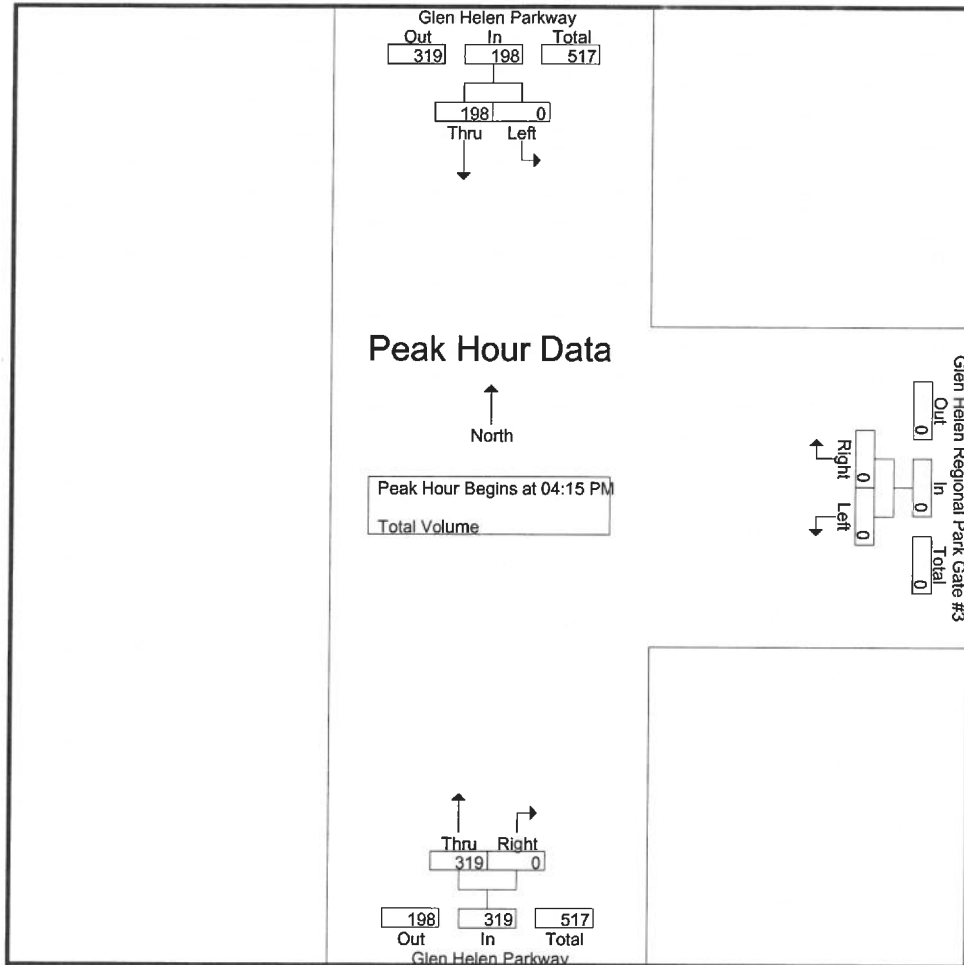
Start Time	Glen Helen Parkway Southbound			Glen Helen Regional Park Gate #3 Westbound			Glen Helen Parkway Northbound			Int. Total
	Left	Thru	App. Total	Left	Right	App. Total	Thru	Right	App. Total	
04:00 PM	0	51	51	0	0	0	60	0	60	111
04:15 PM	0	47	47	0	0	0	93	0	93	140
04:30 PM	0	53	53	0	0	0	70	0	70	123
04:45 PM	0	57	57	0	0	0	72	0	72	129
Total	0	208	208	0	0	0	295	0	295	503
05:00 PM	0	41	41	0	0	0	84	0	84	125
05:15 PM	0	60	60	0	0	0	79	0	79	139
05:30 PM	0	61	61	0	0	0	57	0	57	118
05:45 PM	0	43	43	0	0	0	50	0	50	93
Total	0	205	205	0	0	0	270	0	270	475
Grand Total	0	413	413	0	0	0	565	0	565	978
Apprch %	0	100		0	0		100	0		
Total %	0	42.2	42.2	0	0	0	57.8	0	57.8	

	Glen Helen Parkway Southbound			Glen Helen Regional Park Gate #3 Westbound			Glen Helen Parkway Northbound			
Start Time	Left	Thru	App. Total	Left	Right	App. Total	Thru	Right	App. Total	Int. Total
Peak Hour Analysis From 04:00 PM to 05:45 PM - Peak 1 of 1										
Peak Hour for Entire Intersection Begins at 04:15 PM										
04:15 PM	0	47	47	0	0	0	93	0	93	140
04:30 PM	0	53	53	0	0	0	70	0	70	123
04:45 PM	0	57	57	0	0	0	72	0	72	129
05:00 PM	0	41	41	0	0	0	84	0	84	125
Total Volume	0	198	198	0	0	0	319	0	319	517
% App. Total	0	100		0	0		100	0		
PHF	.000	.868	.868	.000	.000	.000	.858	.000	.858	.923

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File Name : 05_CSB_GH_GHRP #3 PM
Site Code : 00324507
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Peak Hour Analysis From 04:00 PM to 05:45 PM - Peak 1 of 1
Peak Hour for Each Approach Begins at:

	04:45 PM			04:00 PM			04:15 PM		
+0 mins.	0	57	57	0	0	0	93	0	93
+15 mins.	0	41	41	0	0	0	70	0	70
+30 mins.	0	60	60	0	0	0	72	0	72
+45 mins.	0	61	61	0	0	0	84	0	84
Total Volume	0	219	219	0	0	0	319	0	319
% App. Total	0	100		0	0		100	0	
PHF	.000	.898	.898	.000	.000	.000	.858	.000	.858

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County of San Bernardino
N/S: Glen Helen Parkway
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Weather: Clear

File Name : 06_CSB_GH_GHR AM
Site Code : 00324507
Start Date : 5/21/2024
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Groups Printed- Passenger Vehicles - Large 2 Axle Vehicles - 3 Axle Vehicles - 4+ Axle Trucks

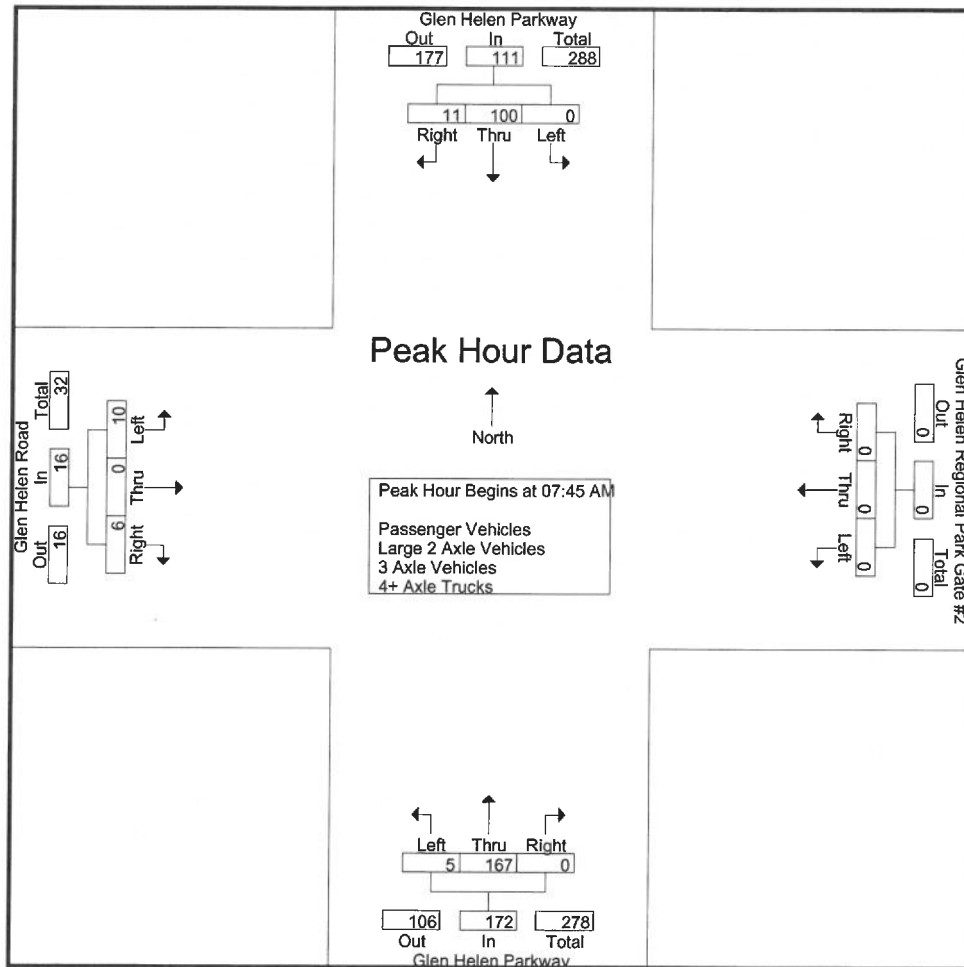
	Glen Helen Parkway Southbound				Glen Helen Regional Park Gate #2 Westbound				Glen Helen Parkway Northbound				Glen Helen Road Eastbound				
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
07:00 AM	0	34	1	35	0	0	1	1	1	17	1	19	3	0	3	6	61
07:15 AM	0	36	2	38	0	0	0	0	2	25	0	27	1	0	3	4	69
07:30 AM	0	32	3	35	0	0	0	0	0	32	0	32	0	0	2	2	69
07:45 AM	0	32	1	33	0	0	0	0	2	47	0	49	2	0	2	4	86
Total	0	134	7	141	0	0	1	1	5	121	1	127	6	0	10	16	285
08:00 AM	0	18	1	19	0	0	0	0	2	38	0	40	1	0	1	2	61
08:15 AM	0	30	2	32	0	0	0	0	0	37	0	37	5	0	2	7	76
08:30 AM	0	20	7	27	0	0	0	0	1	45	0	46	2	0	1	3	76
08:45 AM	0	37	4	41	0	0	0	0	1	24	0	25	2	0	2	4	70
Total	0	105	14	119	0	0	0	0	4	144	0	148	10	0	6	16	283
Grand Total	0	239	21	260	0	0	1	1	9	265	1	275	16	0	16	32	568
Apprch %	0	91.9	8.1		0	0	100		3.3	96.4	0.4		50	0	50		
Total %	0	42.1	3.7	45.8	0	0	0.2	0.2	1.6	46.7	0.2	48.4	2.8	0	2.8	5.6	
Passenger Vehicles	0	199	10	209	0	0	1	1	7	234	1	242	8	0	10	18	470
% Passenger Vehicles	0	83.3	47.6	80.4	0	0	100	100	77.8	88.3	100	88	50	0	62.5	56.2	82.7
Large 2 Axle Vehicles	0	18	2	20	0	0	0	0	1	18	0	19	1	0	0	1	40
% Large 2 Axle Vehicles	0	7.5	9.5	7.7	0	0	0	0	11.1	6.8	0	6.9	6.2	0	0	3.1	7
3 Axle Vehicles	0	5	5	10	0	0	0	0	1	4	0	5	7	0	3	10	25
% 3 Axle Vehicles	0	2.1	23.8	3.8	0	0	0	0	11.1	1.5	0	1.8	43.8	0	18.8	31.2	4.4
4+ Axle Trucks	0	17	4	21	0	0	0	0	0	9	0	9	0	0	3	3	33
% 4+ Axle Trucks	0	7.1	19	8.1	0	0	0	0	0	3.4	0	3.3	0	0	18.8	9.4	5.8

	Glen Helen Parkway Southbound				Glen Helen Regional Park Gate #2 Westbound				Glen Helen Parkway Northbound				Glen Helen Road Eastbound				
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
Peak Hour Analysis From 07:00 AM to 08:45 AM - Peak 1 of 1																	
Peak Hour for Entire Intersection Begins at 07:45 AM																	
07:45 AM	0	32	1	33	0	0	0	0	2	47	0	49	2	0	2	4	86
08:00 AM	0	18	1	19	0	0	0	0	2	38	0	40	1	0	1	2	61
08:15 AM	0	30	2	32	0	0	0	0	0	37	0	37	5	0	2	7	76
08:30 AM	0	20	7	27	0	0	0	0	1	45	0	46	2	0	1	3	76
Total Volume	0	100	11	111	0	0	0	0	5	167	0	172	10	0	6	16	299
% App. Total	0	90.1	9.9		0	0	0		2.9	97.1	0		62.5	0	37.5		
PHF	.000	.781	.393	.841	.000	.000	.000	.000	.625	.888	.000	.878	.500	.000	.750	.571	.869

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Site Code : 00324507
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Peak Hour Analysis From 07:00 AM to 08:45 AM - Peak 1 of 1
Peak Hour for Each Approach Begins at:

	07:00 AM				07:00 AM				07:45 AM				07:00 AM			
+0 mins.	0	34	1	35	0	0	1	1	2	47	0	49	3	0	3	6
+15 mins.	0	36	2	38	0	0	0	0	2	38	0	40	1	0	3	4
+30 mins.	0	32	3	35	0	0	0	0	0	37	0	37	0	0	2	2
+45 mins.	0	32	1	33	0	0	0	0	1	45	0	46	2	0	2	4
Total Volume	0	134	7	141	0	0	1	1	5	167	0	172	6	0	10	16
% App. Total	0	95	5		0	0	100		2.9	97.1	0		37.5	0	62.5	
PHF	.000	.931	.583	.928	.000	.000	.250	.250	.625	.888	.000	.878	.500	.000	.833	.667

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File Name : 06_CSB_GH_GHR AM
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Groups Printed- Passenger Vehicles

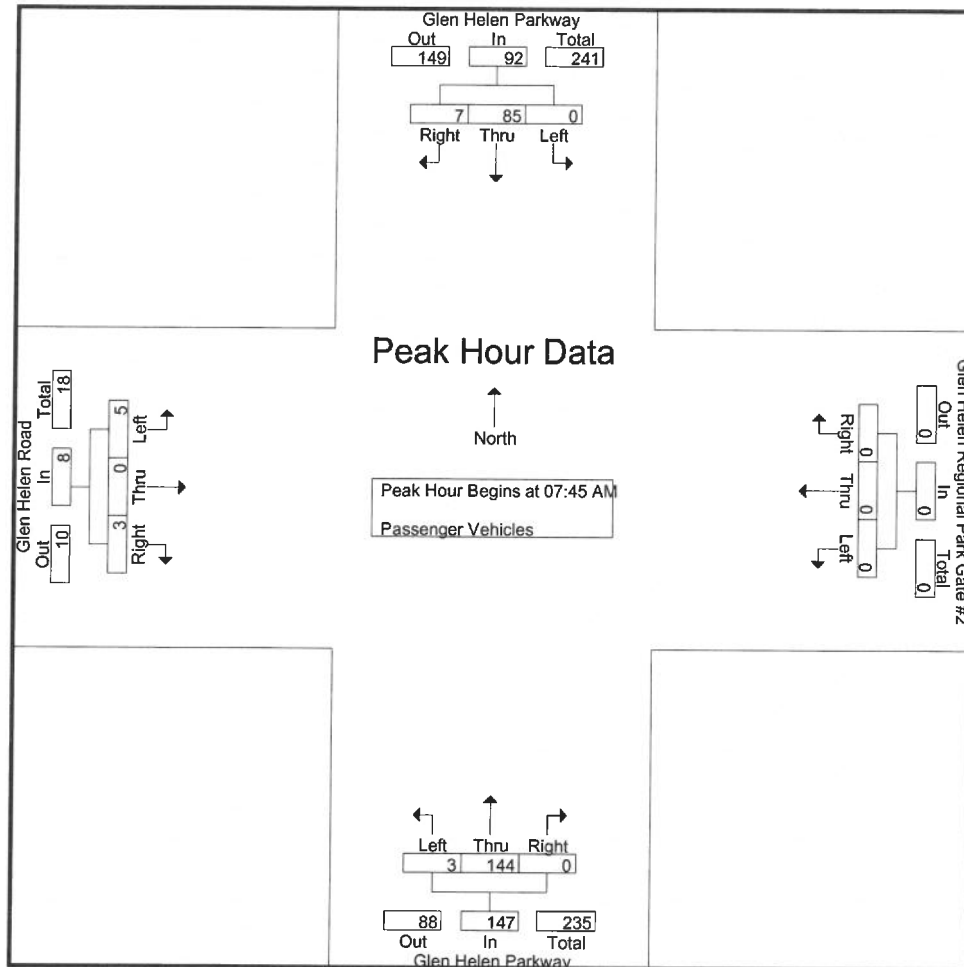
	Glen Helen Parkway Southbound				Glen Helen Regional Park Gate #2 Westbound				Glen Helen Parkway Northbound				Glen Helen Road Eastbound				
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
07:00 AM	0	27	1	28	0	0	1	1	1	16	1	18	1	0	2	3	50
07:15 AM	0	27	0	27	0	0	0	0	2	23	0	25	1	0	2	3	55
07:30 AM	0	29	0	29	0	0	0	0	0	30	0	30	0	0	1	1	60
07:45 AM	0	25	0	25	0	0	0	0	1	38	0	39	1	0	2	3	67
Total	0	108	1	109	0	0	1	1	4	107	1	112	3	0	7	10	232
08:00 AM	0	17	1	18	0	0	0	0	1	33	0	34	1	0	0	1	53
08:15 AM	0	26	1	27	0	0	0	0	0	32	0	32	3	0	0	3	62
08:30 AM	0	17	5	22	0	0	0	0	1	41	0	42	0	0	1	1	65
08:45 AM	0	31	2	33	0	0	0	0	1	21	0	22	1	0	2	3	58
Total	0	91	9	100	0	0	0	0	3	127	0	130	5	0	3	8	238
Grand Total	0	199	10	209	0	0	1	1	7	234	1	242	8	0	10	18	470
Apprch %	0	95.2	4.8		0	0	100		2.9	96.7	0.4		44.4	0	55.6		
Total %	0	42.3	2.1	44.5	0	0	0.2	0.2	1.5	49.8	0.2	51.5	1.7	0	2.1	3.8	

	Glen Helen Parkway Southbound				Glen Helen Regional Park Gate #2 Westbound				Glen Helen Parkway Northbound				Glen Helen Road Eastbound				
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
Peak Hour Analysis From 07:45 AM to 08:30 AM - Peak 1 of 1																	
Peak Hour for Entire Intersection Begins at 07:45 AM																	
07:45 AM	0	25	0	25	0	0	0	0	1	38	0	39	1	0	2	3	67
08:00 AM	0	17	1	18	0	0	0	0	1	33	0	34	1	0	0	1	53
08:15 AM	0	26	1	27	0	0	0	0	0	32	0	32	3	0	0	3	62
08:30 AM	0	17	5	22	0	0	0	0	1	41	0	42	0	0	1	1	65
Total Volume	0	85	7	92	0	0	0	0	3	144	0	147	5	0	3	8	247
% App. Total	0	92.4	7.6		0	0	0		2	98	0		62.5	0	37.5		
PHF	.000	.817	.350	.852	.000	.000	.000	.000	.750	.878	.000	.875	.417	.000	.375	.667	.922

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Start Date : 5/21/2024
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Peak Hour Analysis From 07:45 AM to 08:30 AM - Peak 1 of 1
Peak Hour for Each Approach Begins at:

	07:45 AM				07:45 AM				07:45 AM				07:45 AM			
+0 mins.	0	25	0	25	0	0	0	0	1	38	0	39	1	0	2	3
+15 mins.	0	17	1	18	0	0	0	0	1	33	0	34	1	0	0	1
+30 mins.	0	26	1	27	0	0	0	0	0	32	0	32	3	0	0	3
+45 mins.	0	17	5	22	0	0	0	0	1	41	0	42	0	0	1	1
Total Volume	0	85	7	92	0	0	0	0	3	144	0	147	5	0	3	8
% App. Total	0	92.4	7.6		0	0	0		2	98	0		62.5	0	37.5	
PHF	.000	.817	.350	.852	.000	.000	.000	.000	.750	.878	.000	.875	.417	.000	.375	.667