

June 25, 2025

City of Tualatin  
Attention: Mike McCarthy  
18880 SW Martinazzi Avenue  
Tualatin, OR 97062

Re: **Lam TUX**  
*Updated Transportation Impact Analysis Scoping*  
Project Number 2250180.00

Dear Mike:

Mackenzie has prepared this updated scoping letter reflecting the updated site plan described below and planned changes to the required Transportation Impact Analysis (TIA) for the proposed laboratory/research and development building, office building, and utility building at the Lam Research campus in Tualatin, Oregon.

## **TUX Proposal**

The TUX project includes the addition of three buildings. Building H is a four-story office building with an area of up to 120,000 square feet (SF), Building U is a two-story utility building with approximately 29,000 SF, and Building X is a laboratory building with approximately 85,000 SF. The total area of the TUX projects adds up to approximately 234,000 SF with an estimated net gain of 600 employees to the campus when the new buildings are at full occupancy.

The new office will be located on the east side of campus replacing the existing parking between Building G and Building B. The new lab and utility buildings will be located at the southwest corner of the site, replacing the existing surface parking. The existing access to SW Leveton Drive will remain and an additional driveway adjacent to the access road and loading dock at building C will serve as truck access for deliveries to the existing and proposed buildings.

The parking areas along the north side of the campus will be expanded and additional parking will be added to the adjacent west property to offset the loss of the southwest lot and to accommodate additional need with the TUX project. The permanent access to the expanded employee parking lots is proposed at the existing West Access from SW Leveton Drive and the North Access from SW 108th Avenue. North Access has previously been used for access to Lam's existing utility yard north of Building B and has served low volumes of employee trips. With this proposal, the driveway will be convenient for employees in the north lots, but no connection is planned to the parking lot constructed with Building G.

Two phases of development are proposed, with all buildings in Phase 1. Phase 2 will add infrastructure such as additional parking and utilities. For this reason, we propose to analyze both phases in a single buildout year.

## **PARKING AND ACCESS**

The project will increase the available parking spaces from 1,728 to approximately 2,384. This includes a net loss of 82 parking spaces in the center of the campus with Building H (105 removed and 23 added back) and 286 spaces in the southwest lot for the lab and CUB buildings (347 removed and 61 added back).

The impact of these parking changes is that approximately 6% of vehicles at the site that currently park in the central area would instead use the parking lot constructed with Building G, shifting trips from the Center Access on SW Leveton Drive to the two accesses on SW 108th Avenue.

The additional parking added with the project will primarily be served by opening the North Access on SW 108th Avenue and the existing West Access on SW Leveton Drive. A smaller number of vehicles may access the new parking areas from the Center Access on SW Leveton Drive.

The attached site plan presents the proposed site plan with new parking areas identified (Attachment A).

TRIP GENERATION

The three buildings operate in conjunction with each other and best match the description of a “Research and Development Center” (LUC 760) from the Institute of Transportation Engineers’ (ITE) Trip Generation Manual, 11th Edition.

The appropriateness of this land use was confirmed by comparing campus conditions in 2024. Due to current construction on site, we are presenting a comparison to observed employment and trips in 2024. In 2024, the campus had approximately 1,160 office and lab employees assigned and working a day shift (generally 8-5) plus 400 manufacturing staff who worked 12-hour shifts with changes outside the peak hours (7-7 shift schedule). The 2024 campus driveway counts during the peak hours of the site (8-9 AM, 4:45-5:45 PM) were 371 and 378, respectively. Applying the R&D trip rate to the 1,160 employees working a typical day shift results in an estimate of 418 AM, 402 PM and 3,609 daily trips, indicating actual trip generation was about 10% lower than predicted using this approach.

The proposed trip generation for the TUX project is presented in Table 1 below. We utilized the trip generation equations for each time period based on the full occupancy of 600 net new employees.

TABLE 1 – PROPOSED TRIP GENERATION									
ITE LUC	ITE Land Use	Employees	AM Peak Hour			PM Peak Hour			Daily
			In	Out	Total	In	Out	Total	
860	Research and Development Center	600	207	37	244	28	205	233	2,036

As shown in Table 1, the planned campus expansion is estimated to generate an additional 244 AM peak hour, 233 PM peak hour, and 2,036 daily trips with both phases of development.

TRIP DISTRIBUTION

Site trip distribution has been modified slightly from the original master plan based on counts conducted in May 2025 at the active site driveways on SW Leveton Drive. With access now provided on SW 108th Avenue, there has been a small increase in trips on SW Tualatin Road. The overall distribution onto the greater roadway network remains consistent with employee zip code data provided by Lam. Unless otherwise noted, the following percentages apply to both the AM and PM peak hours.

- 24.5% to/from the north on Highway 99W.
- 26.5% to/from the south on Highway 99W.
- 13.5% to/from the east on SW Tualatin Road and SW Herman Road.
  - 8.5% on SW Tualatin Road and 5% on SW Herman Road in the AM peak hour.
  - 4% on SW Tualatin Road and 9.5% on SW Herman Road in the PM peak hour.
- 4.5% to/from the south on SW 118th Avenue.
- 10% to/from the south on SW 124th Avenue.
- 21% to/from the south on SW Teton Avenue.

The attached trip distribution figure (Attachment B) presents the percentage of trips at each study area intersection based on the locations of proposed parking and access points. Trip distribution near the site will reflect the following assumptions:

- 30% of new site trips are expected to utilize the West Leveton Access, 20% at the Center Leveton Access, 30% split evenly between the Center and South 108th Accesses, and the remaining 20% at the North 108th Access.
- 10% of new site trips will use SW Tualatin Road to access the North 108th Access.
  - Half of these trips, or 5% total, are expected to use SW 115th Avenue and SW Hazelbrook Road to access Highway 99W when exiting the site.

## STUDY AREA

Based on previous studies, as well as the City's *Traffic Study Requirements* document requiring that all intersections within a 1/4-mile radius of the project site be included as part of the study area and City and neighborhood concerns, the following public intersections are included in the study area:

- SW Leveton Drive/SW 118th Avenue.
- SW Leveton Drive/SW 108th Avenue.
- SW Tualatin Road/SW Teton Road.
- SW Tualatin Road/SW 108th Avenue.
- SW Tualatin Road/SW 112th Avenue.
- SW Tualatin Road/SW 115th Avenue.
- SW 124th Avenue/SW Leveton Road.
- SW 124th Avenue/SW Tualatin Road.
- SW 124th Avenue/OR 99W.
- SW Herman Road/SW 108th Avenue.
- SW Hazelbrook Road/SW 115th Avenue.
- SW Hazelbrook Road/OR 99W.

The following site driveways will also be studied (includes those opposite public streets listed above):

- SW Leveton Drive/West Access.
- SW Leveton Drive/Proposed New Access (between existing West and Center Accesses).
- SW Leveton Drive/Center Access.
- SW Leveton Drive/East Access.
- SW 108th Avenue/North Access.

- SW 108th Avenue/Center Access (constructed with Building G).
- SW 108th Avenue/South Access (constructed with Building G).

No additional Washington County intersections are proposed because projected trips are not expected to meet the threshold of 10% impact of the roadway's average daily traffic (ADT).

## TRAFFIC COUNTS

Traffic counts were conducted at the intersections listed above for standard peak periods of 7:00-9:00 AM and 4:00-6:00 PM. An extended PM time period from 3:00-6:00 PM was counted at five intersections where the nearby Hazelbrook Middle School might cause an earlier peak. Intersections were counted on Tuesday, May 13, 2025. Raw traffic counts as well as 2025 existing traffic figures are enclosed with this letter (Attachments C and D).

Per ODOT standards, system peak hours from 7:30 AM to 8:30 AM and 4:30 PM to 5:30 PM are proposed for the OR 99W intersections in the AM and PM.

The observed site peaks from 8:00 AM to 9:00 AM and 4:45 PM to 5:45 PM are proposed as a system peak for all site driveways. The remaining intersections will be analyzed at individual intersection peaks. The site volumes are 449 (391 enter/58 exit) in the AM and 430 (67 enter/363 exit) in the PM, which is approximately 7% higher than 2024 counts, mostly due to construction activity for Building G with 85 contractors.

Traffic volumes on Tualatin Road have increased since 2024, which may be in part to construction activity on SW Tualatin-Sherwood Road and the small increase in site trips. No adjustments are proposed for this analysis.

## TRANSPORTATION IMPACT ANALYSIS

Based on the City's traffic study requirements, as well as the required scope for the new Lam Research office building, the TIA will review AM and PM peak hour conditions at the study area intersections for the following scenarios:

- 2025 Existing.
- 2030 Pre-Development without project.
- 2030 Post-Development with project.

The TIA will also include the following analysis components:

- 1% annual background growth per ODOT's 2040 Future Volumes table for OR 99W south of 124th Avenue.
- Seasonal adjustment factor of 1.03 applied to through volumes on OR 99W per ODOT's Seasonal Trend Table for count date of May 13, 2025.
- 6% of existing site trips rerouted from the Center Leveton Access to the South and Center 108th Accesses due to proposed changes to parking as noted above.
- Intersection capacity analyses will be conducted at the study area intersections using Synchro 12 software which implements the methodologies of the *Highway Capacity Manual* (HCM) 7th Edition, with v/c calculated using ODOT methodology in the APM for ODOT intersections and HCM 2000 for all other intersections.
- Trips from the approved Lam Building G project will be included as in-process volumes.

- We reviewed the prior and any new in-process project trips to include. We propose to add the KAI USA Warehouse Expansion on SW Herman Road. The land use approval has expired for Tualatin Logistics Park so it will not be included. The proposed in-process projects include the following:
  - Lam Building G.
  - Fujimi Expansion.
  - 124th Business Park.
  - KAI USA Warehouse Expansion.
- An adjustment of site trips will be made for the existing contractors on site and is estimated to be 34 AM and 32 PM trips. Because these contractors are parking in the lot for Building G, we propose reducing the in-process trips for Building G by these amounts.
- Crash data for the most recent five years will be compiled and evaluated for safety concerns.
- Intersection sight distance evaluations will be based on AASHTO methodology for the proposed site access points.
- Intersection queuing, turn-lane warrants, and signal warrants will also be evaluated where appropriate. Queueing will be estimated using SimTraffic, with adjustments as needed to calibrate to observed conditions and/or Synchro output. Signal warrants will follow MUTCD standards and TTI for turn lane warrants.

Please confirm the proposed trip generation, trip distribution, study area, TIA analysis components, and in-process project list are acceptable for the required TIA.

Please contact me at [bahrend@mcknze.com](mailto:bahrend@mcknze.com) or 971-346-3781 if you have any questions or comments regarding the information presented in this scoping letter.

Sincerely,

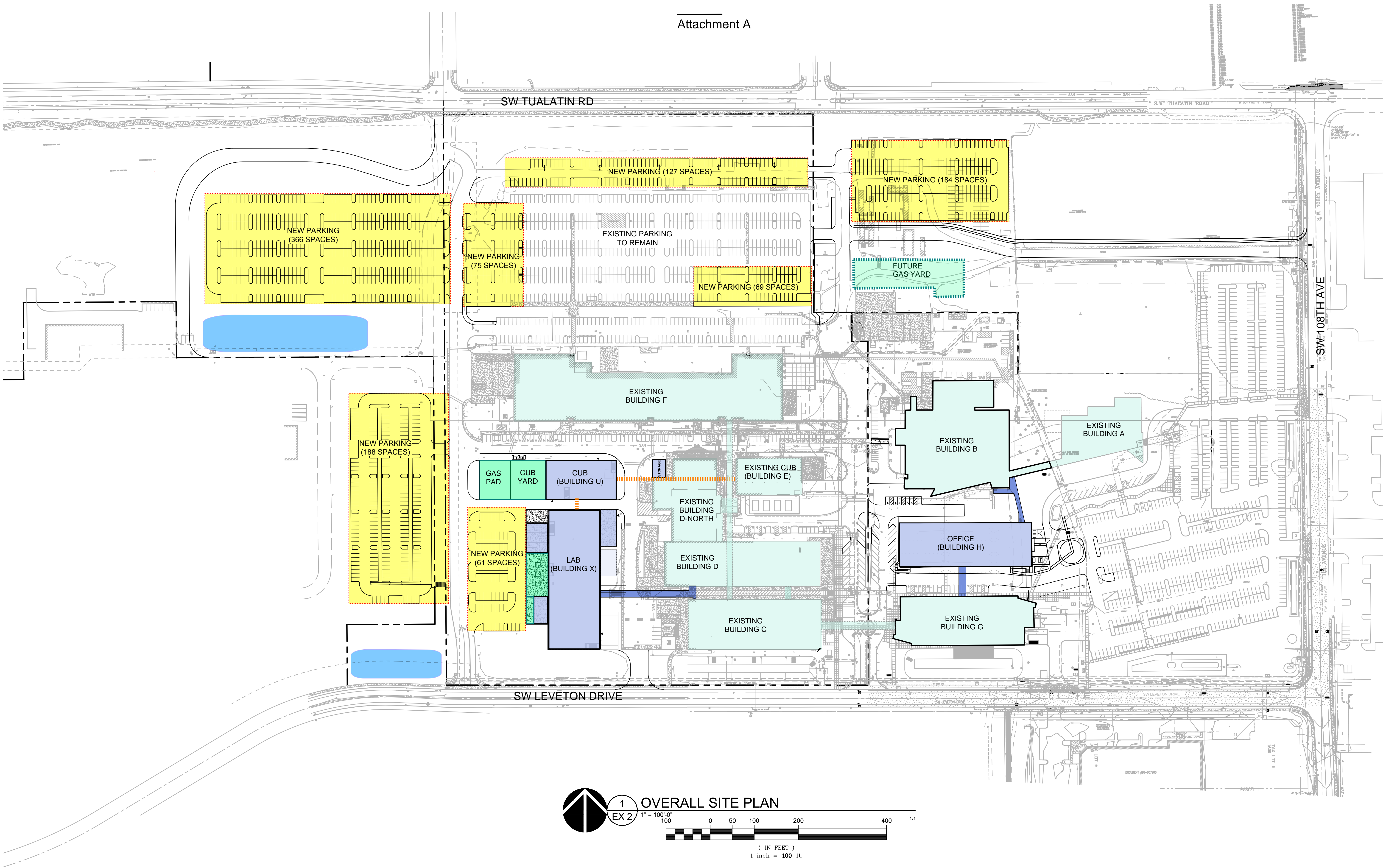


Brent Ahrend, PE  
Associate Principal | Traffic Engineer

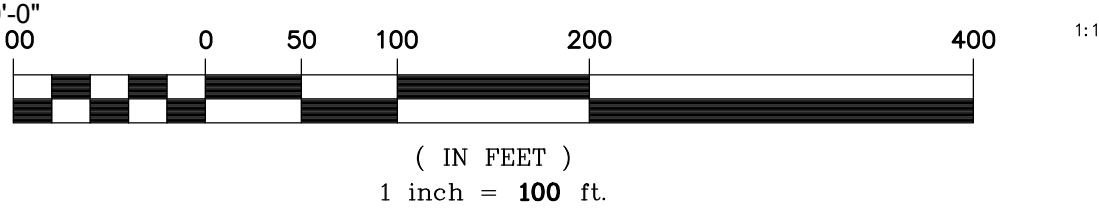
Enclosure(s):     Attachment A – Site Plan  
                         Attachment B – Existing Parking Rerouted Volumes  
                         Attachment C – New TUX Trip Distribution  
                         Attachment D – 2025 Existing Traffic Volumes  
                         Attachment E – 2025 Turning Movement Counts

c:     Steve Koper, Kim McMillan, Mike McCarthy, Abby McFetridge, Tony Doran, Hayden Ausland – City of Tualatin  
         Jinde Zhu – Washington County  
         John Russell – ODOT  
         Jennifer Otterness Majid, Mike Halvorson, Stefanie McEvers, Danielle Nonamaker, Paul Roessler, Todd Fosler – Lam Research  
         Joel Rabinovitz, Garth Appanaitis – DKS Associates  
         Suzannah Stanley, Bill Bezio, Megan Diaz, Mike Rueter, Clara Layton, Nicole Burrell – Mackenzie

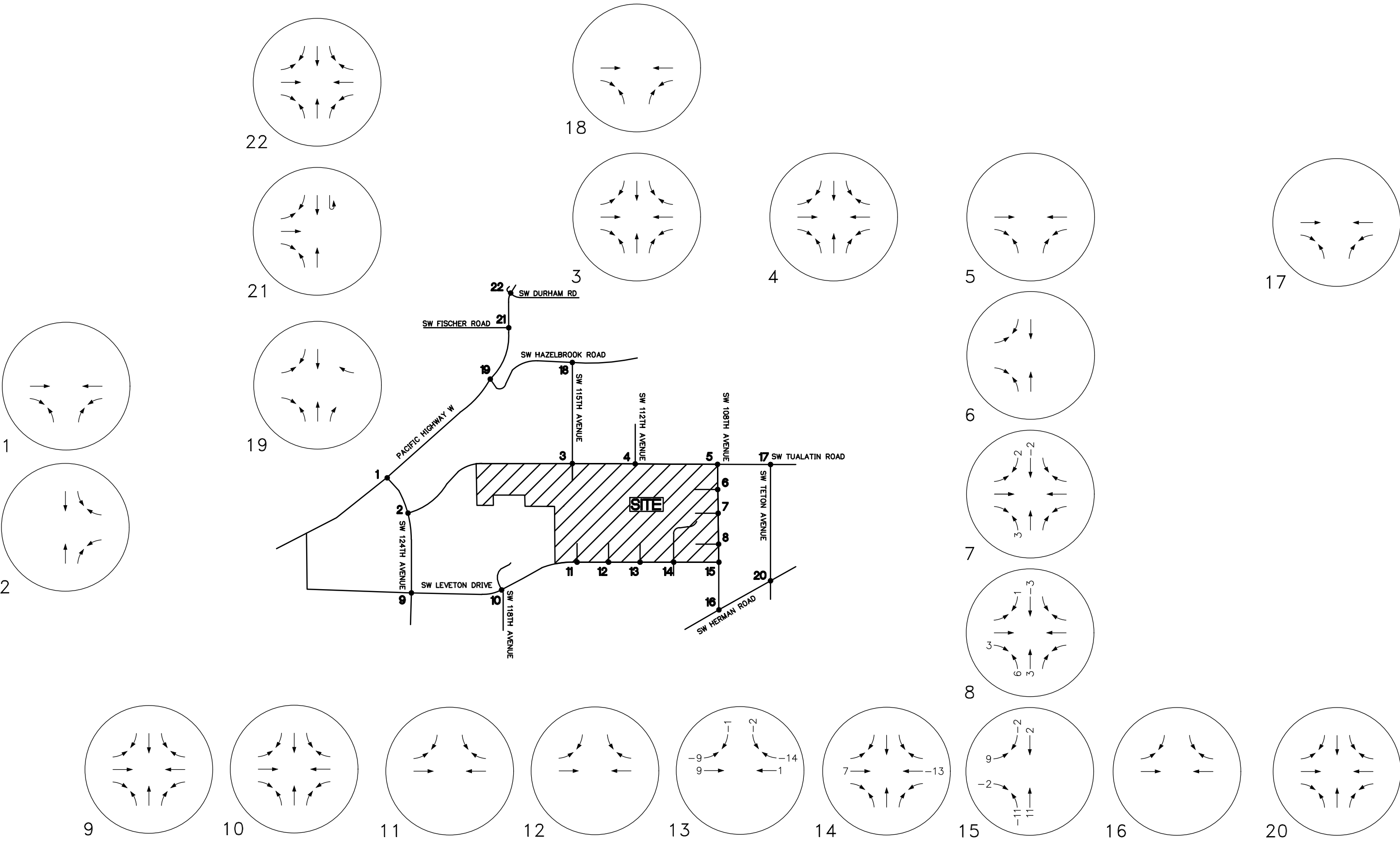




1 OVERALL SITE PLAN  
EX 2







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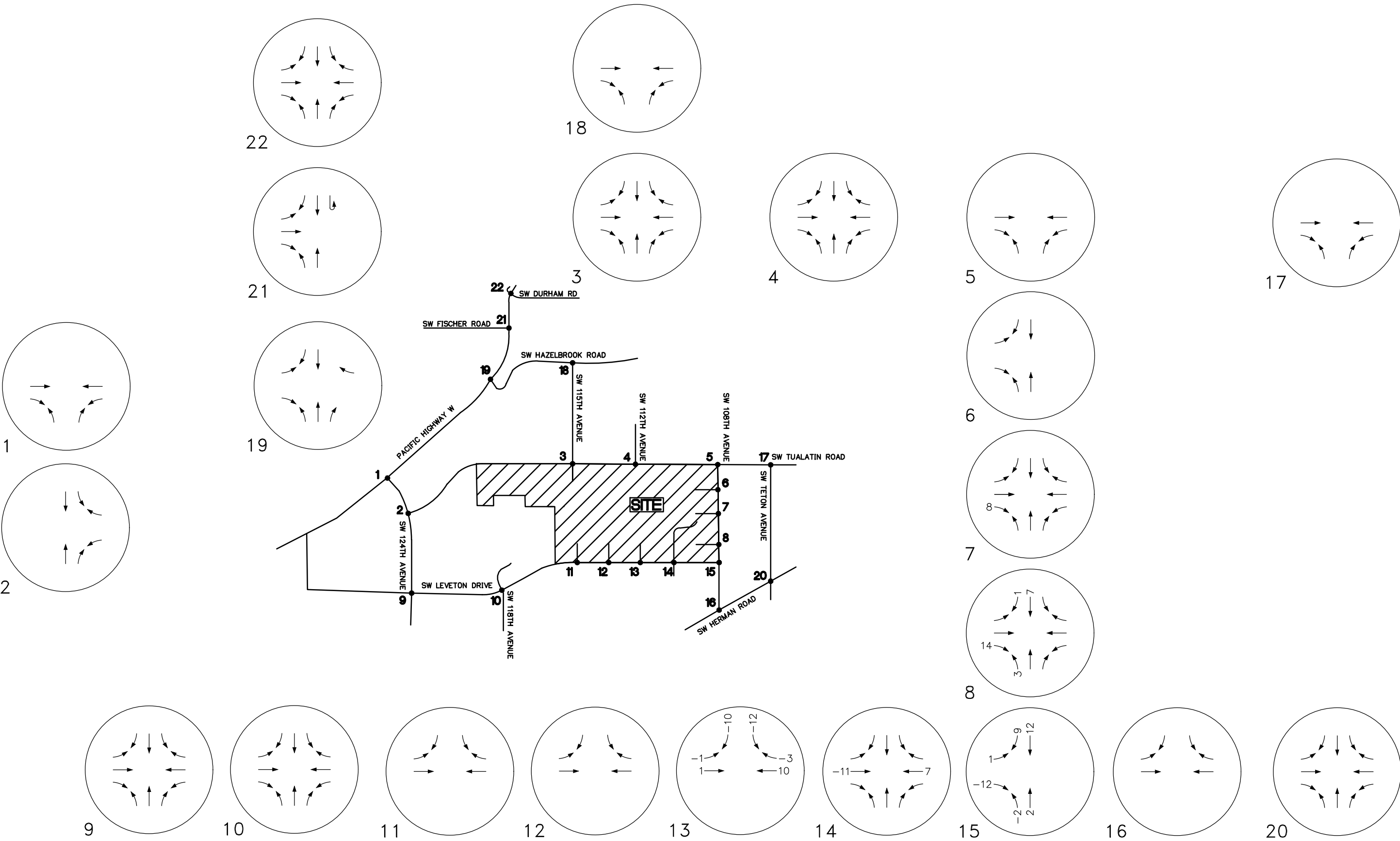
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DATE: 6.24.2025  
DRAWN BY: CNL  
CHECKED BY: BTA  
JOB NO:  
225018000

EXISTING PARKING  
REROUTED VOLUMES -  
AM PEAK HOUR  
LAM TUX  
TUALATIN, OR

FIGURE  
1A



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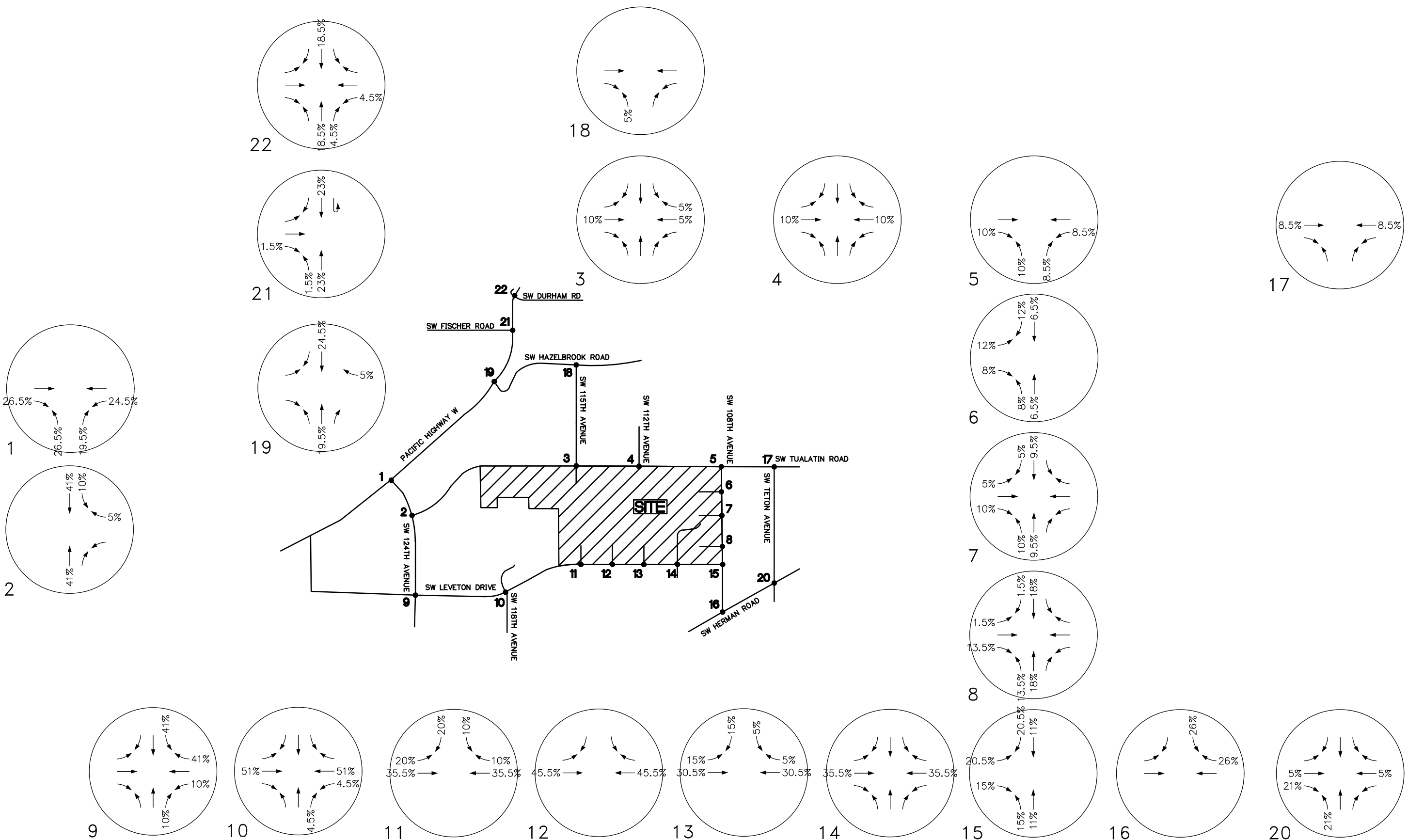
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EXISTING PARKING  
REROUTED VOLUMES -  
PM PEAK HOUR  
LAM TUX  
TUALATIN, OR

FIGURE  
1B





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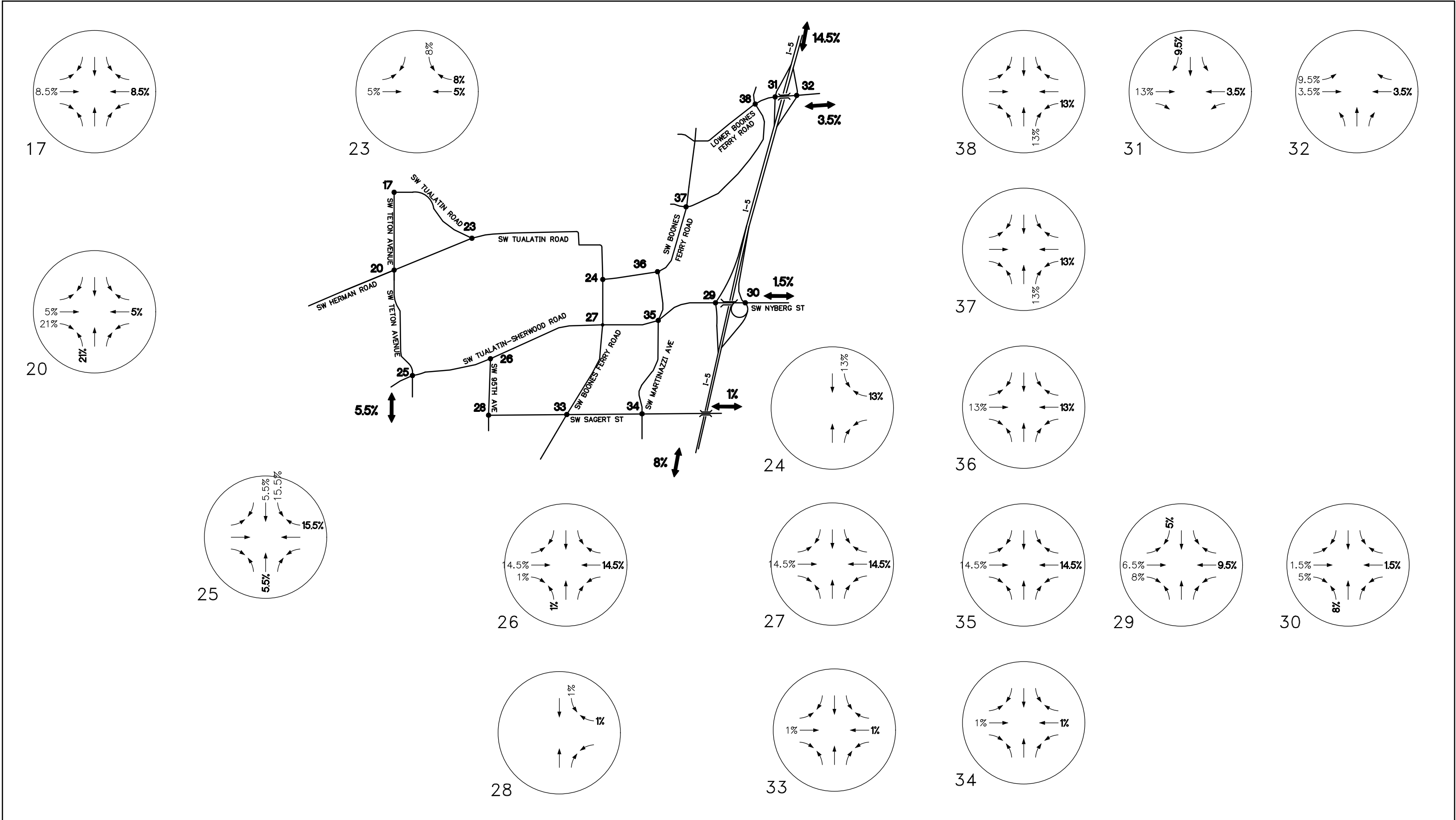
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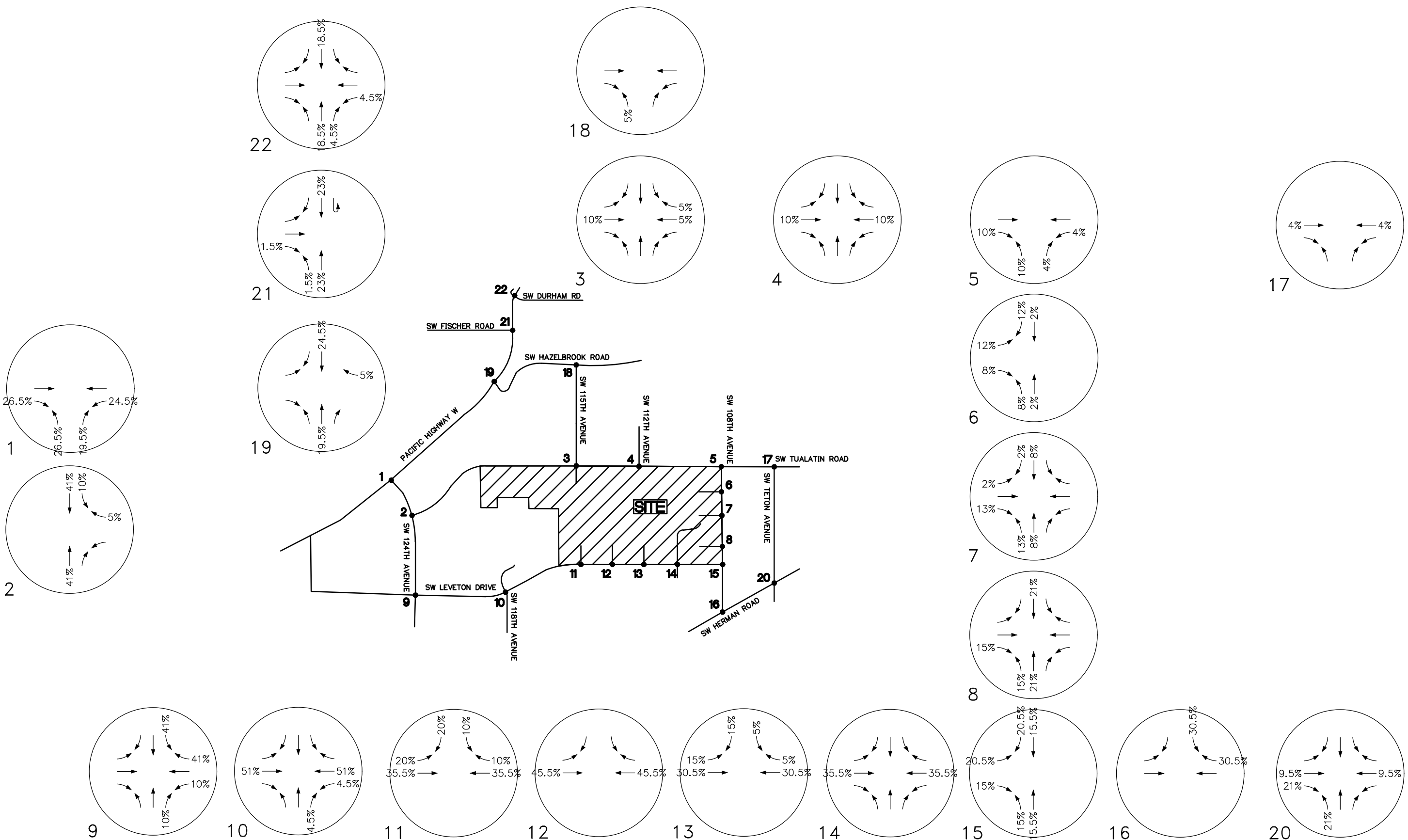
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NEW TUX  
TRIP DISTRIBUTION -  
AM PEAK HOUR  
LAM TUX  
TUALATIN, OR

FIGURE  
2A





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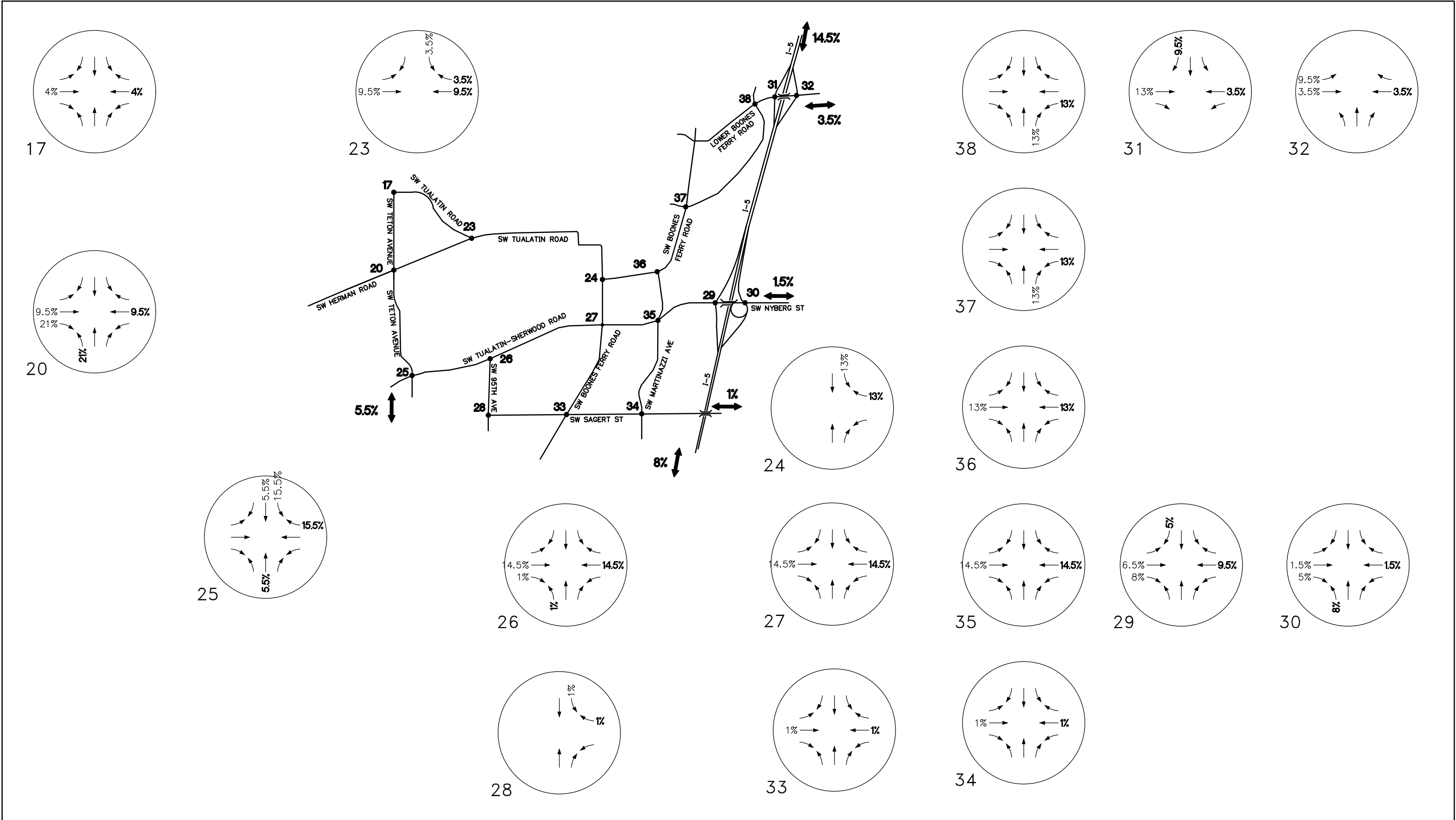
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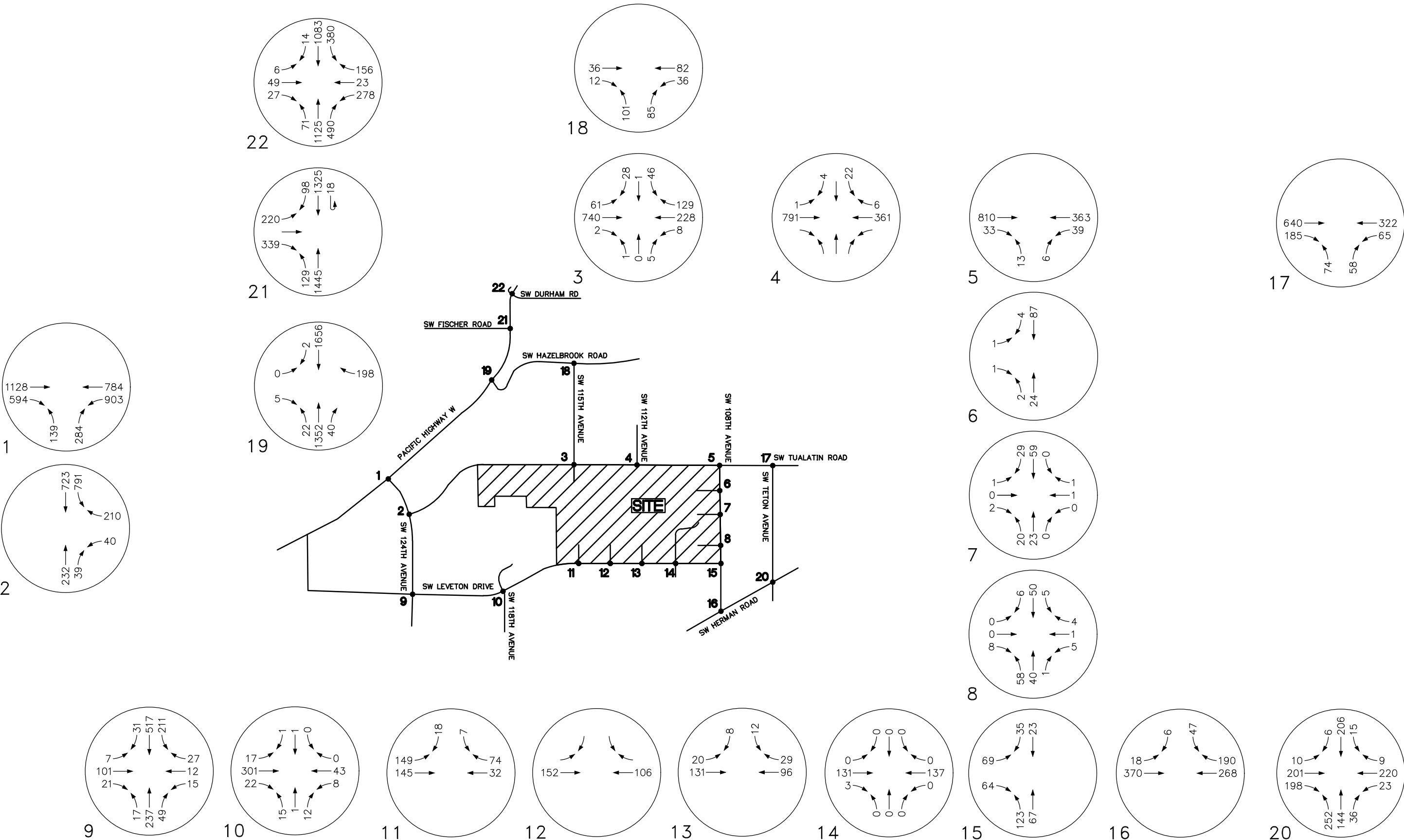
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NEW TUX  
TRIP DISTRIBUTION -  
PM PEAK HOUR  
LAM TUX  
TUALATIN, OR

FIGURE  
2C







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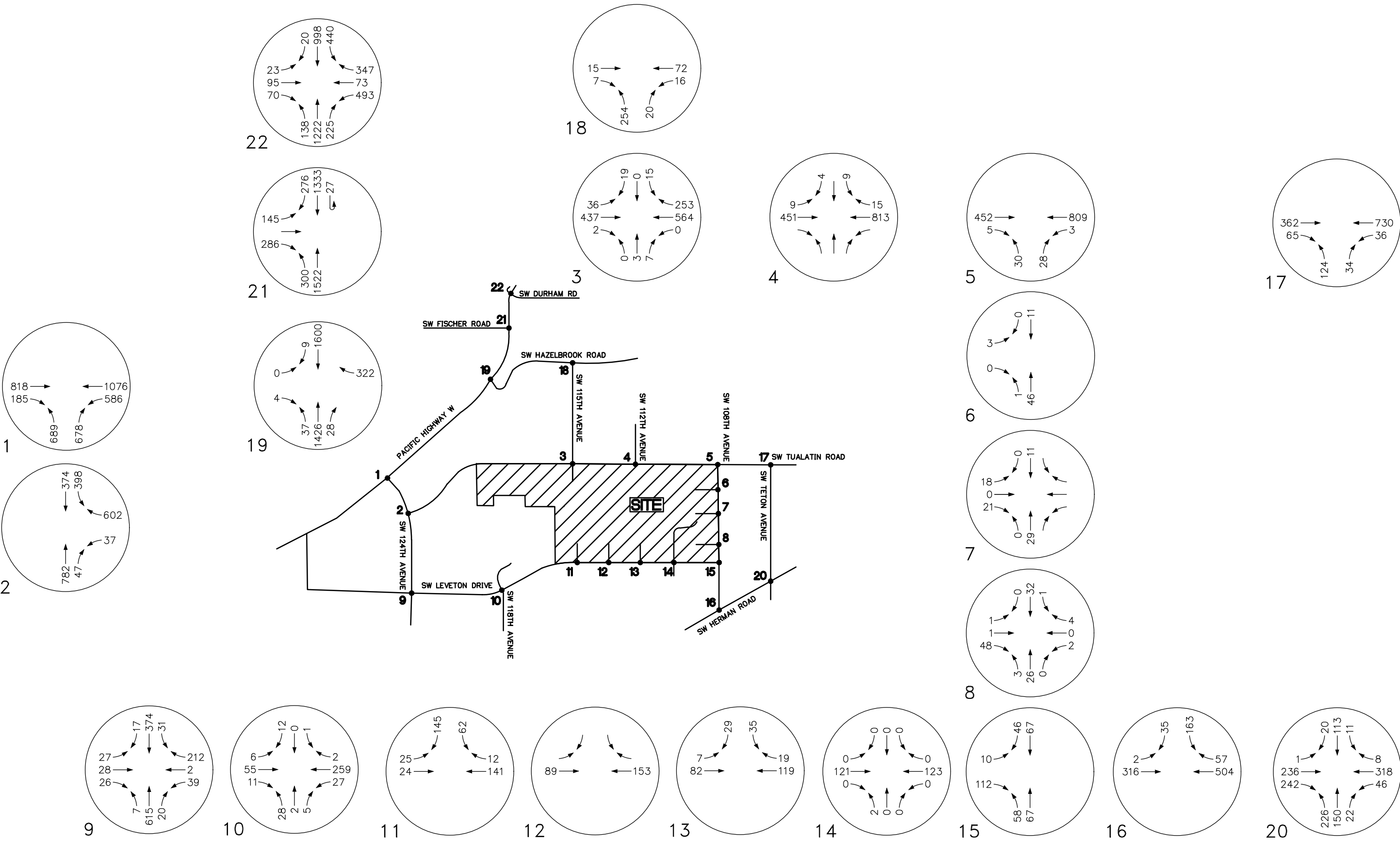
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225018000

2025 EXISTING  
TRAFFIC VOLUMES -  
AM PEAK HOUR  
LAM TUX  
TUALATIN, OR

FIGURE  
3A



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2025 EXISTING  
TRAFFIC VOLUMES -  
PM PEAK HOUR  
LAM TUX  
TUALATIN, OR

FIGURE  
3B

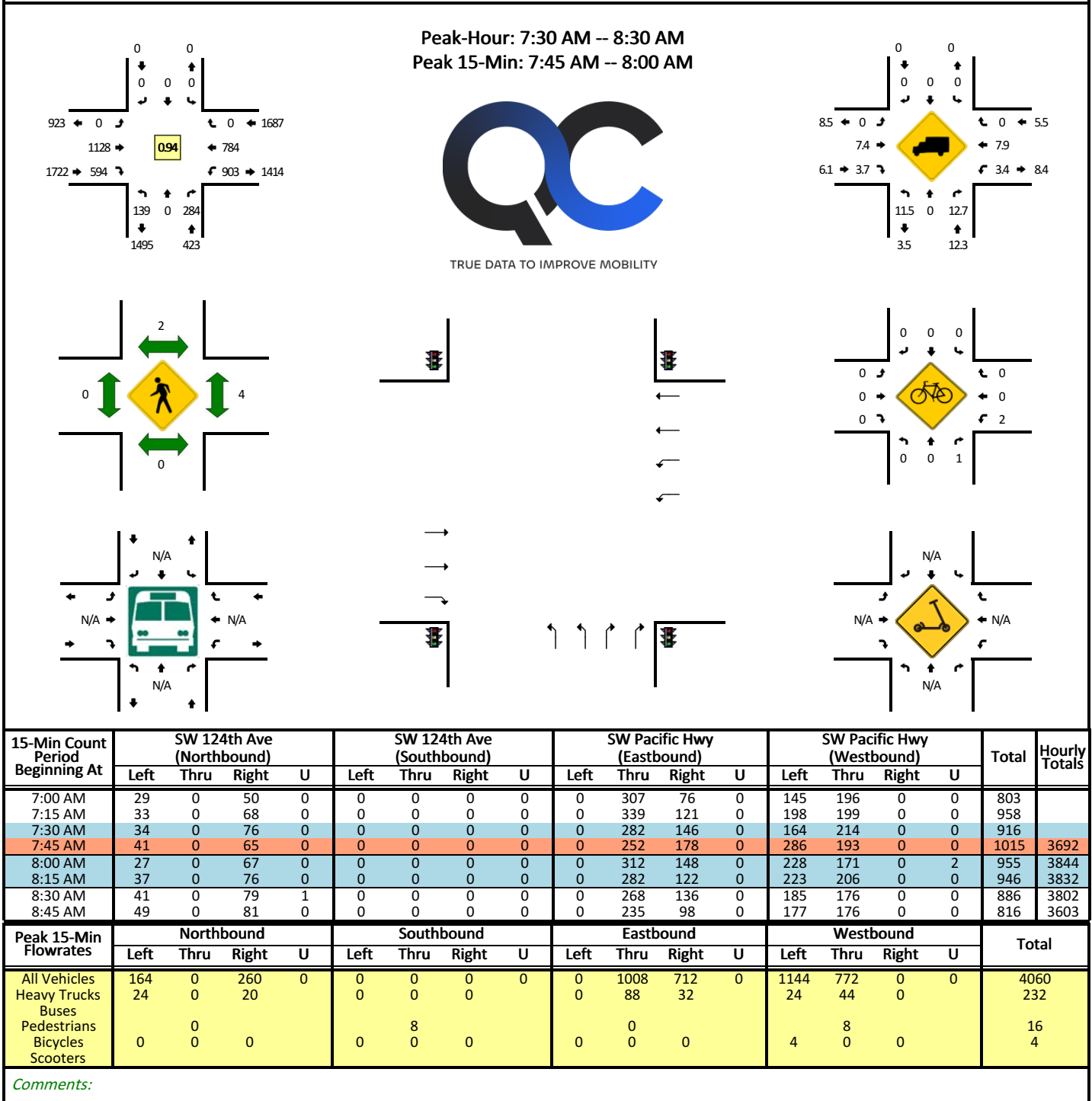
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Type of peak hour being reported: System-wide Peak

Method for determining peak hour: Total Entering Volume

**LOCATION:** SW 124th Ave -- SW Pacific Hwy  
**CITY/STATE:** Tualatin, OR

**QC JOB #:** 17042801  
**DATE:** Tue, May 13 2025



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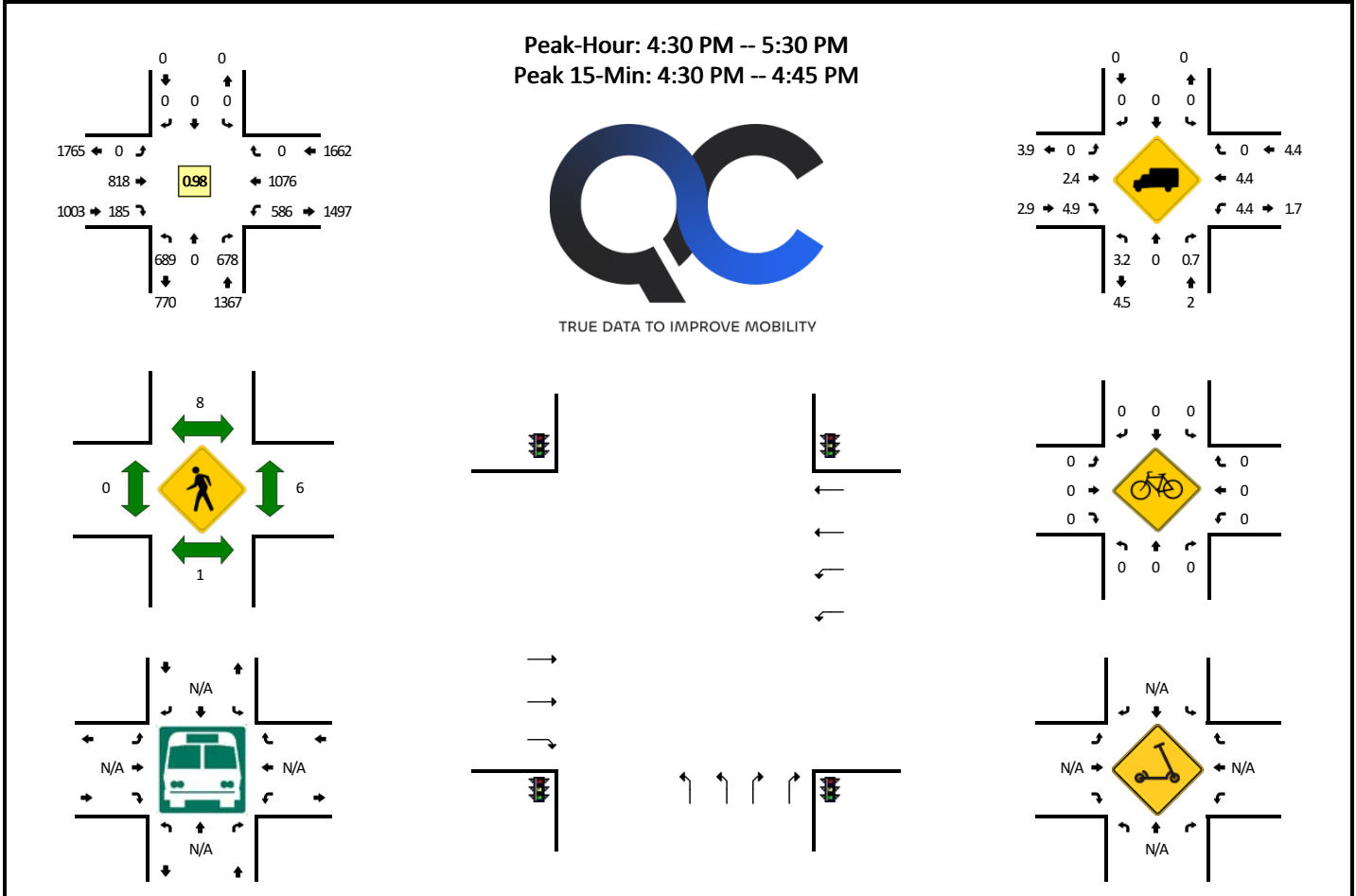
SOURCE: Quality Counts, LLC (<http://www.qualitycounts.net>) 1-877-580-2212

Type of peak hour being reported: System-wide Peak

Method for determining peak hour: Total Entering Volume

**LOCATION:** SW 124th Ave -- SW Pacific Hwy  
**CITY/STATE:** Tualatin, OR

**QC JOB #:** 17042802  
**DATE:** Tue, May 13 2025



15-Min Count Period Beginning At	SW 124th Ave (Northbound)				SW 124th Ave (Southbound)				SW Pacific Hwy (Eastbound)				SW Pacific Hwy (Westbound)				Total	Hourly Totals
	Left	Thru	Right	U	Left	Thru	Right	U	Left	Thru	Right	U	Left	Thru	Right	U		
4:00 PM	156	0	207	0	0	0	0	0	0	223	73	0	119	259	0	1	1038	
4:15 PM	159	0	158	0	0	0	0	0	0	185	55	0	143	240	0	0	940	
4:30 PM	180	0	169	0	0	0	0	0	0	202	40	0	166	271	0	0	1028	
4:45 PM	155	0	152	0	0	0	0	0	0	203	48	0	143	264	0	0	965	3971
5:00 PM	188	0	190	0	0	0	0	0	0	213	44	0	139	250	0	1	1025	3958
5:15 PM	166	0	167	0	0	0	0	0	0	200	53	0	137	291	0	0	1014	4032
5:30 PM	125	0	158	0	0	0	0	0	0	197	38	0	105	237	0	0	860	3864
5:45 PM	83	0	118	0	0	0	0	0	0	214	35	0	91	231	0	2	774	3673
Peak 15-Min Flowrates	Northbound				Southbound				Eastbound				Westbound				Total	
	Left	Thru	Right	U	Left	Thru	Right	U	Left	Thru	Right	U	Left	Thru	Right	U		
All Vehicles	720	0	676	0	0	0	0	0	0	808	160	0	664	1084	0	0	4112	
Heavy Trucks	4	0	4		0	0	0		0	16	12		36	72	0		144	
Buses																		
Pedestrians		0				16				0				12			28	
Bicycles	0	0	0		0	0	0		0	0	0		0	0	0		0	
Scooters																		

**Comments:**

Report generated on 6/2/2025 1:04 PM

SOURCE: Quality Counts, LLC (<http://www.qualitycounts.net>) 1-877-580-2212

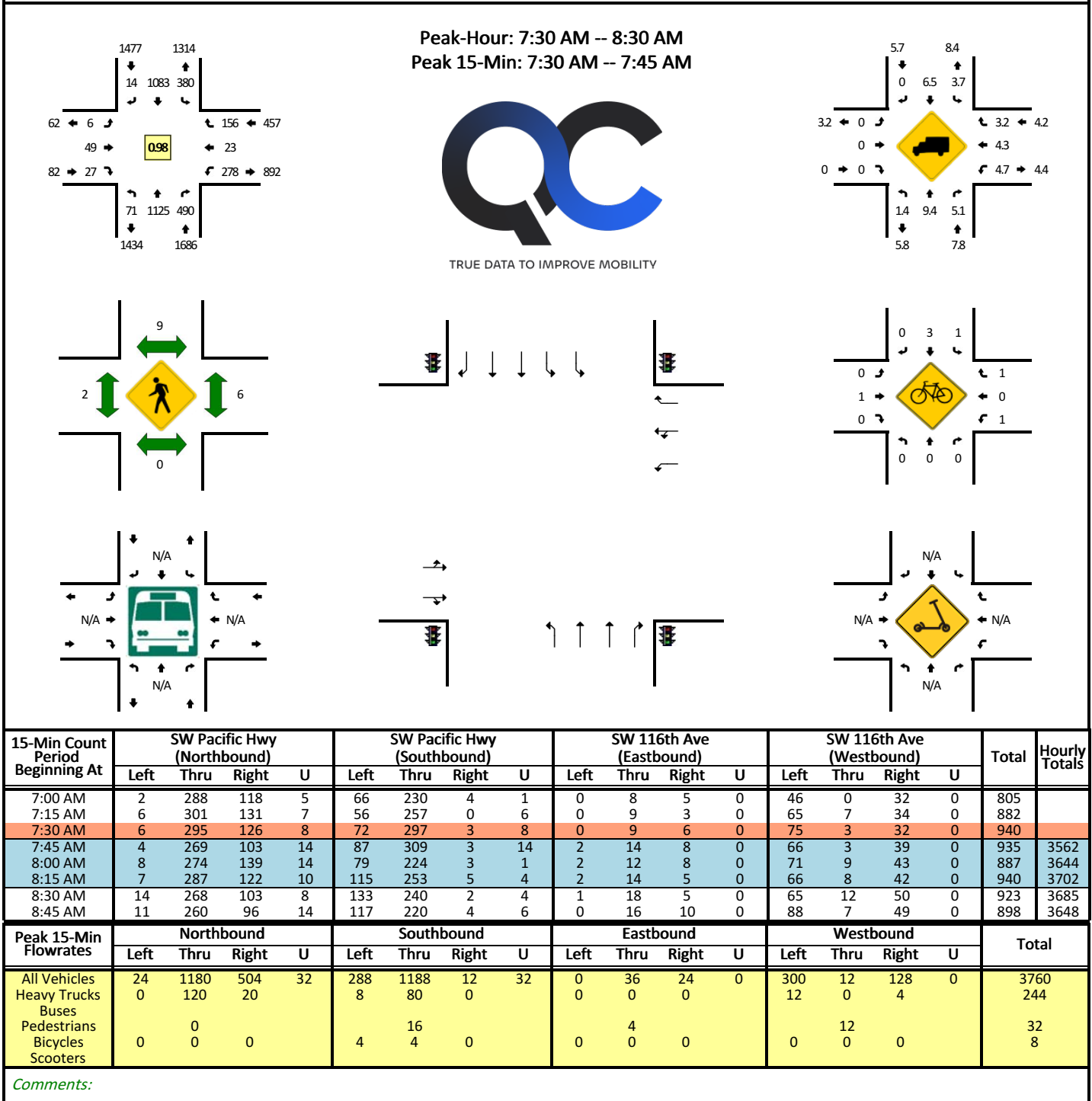


Type of peak hour being reported: System-wide Peak

Method for determining peak hour: Total Entering Volume

**LOCATION:** SW Pacific Hwy -- SW 116th Ave  
**CITY/STATE:** King City, OR

**QC JOB #:** 17042823  
**DATE:** Tue, May 13 2025



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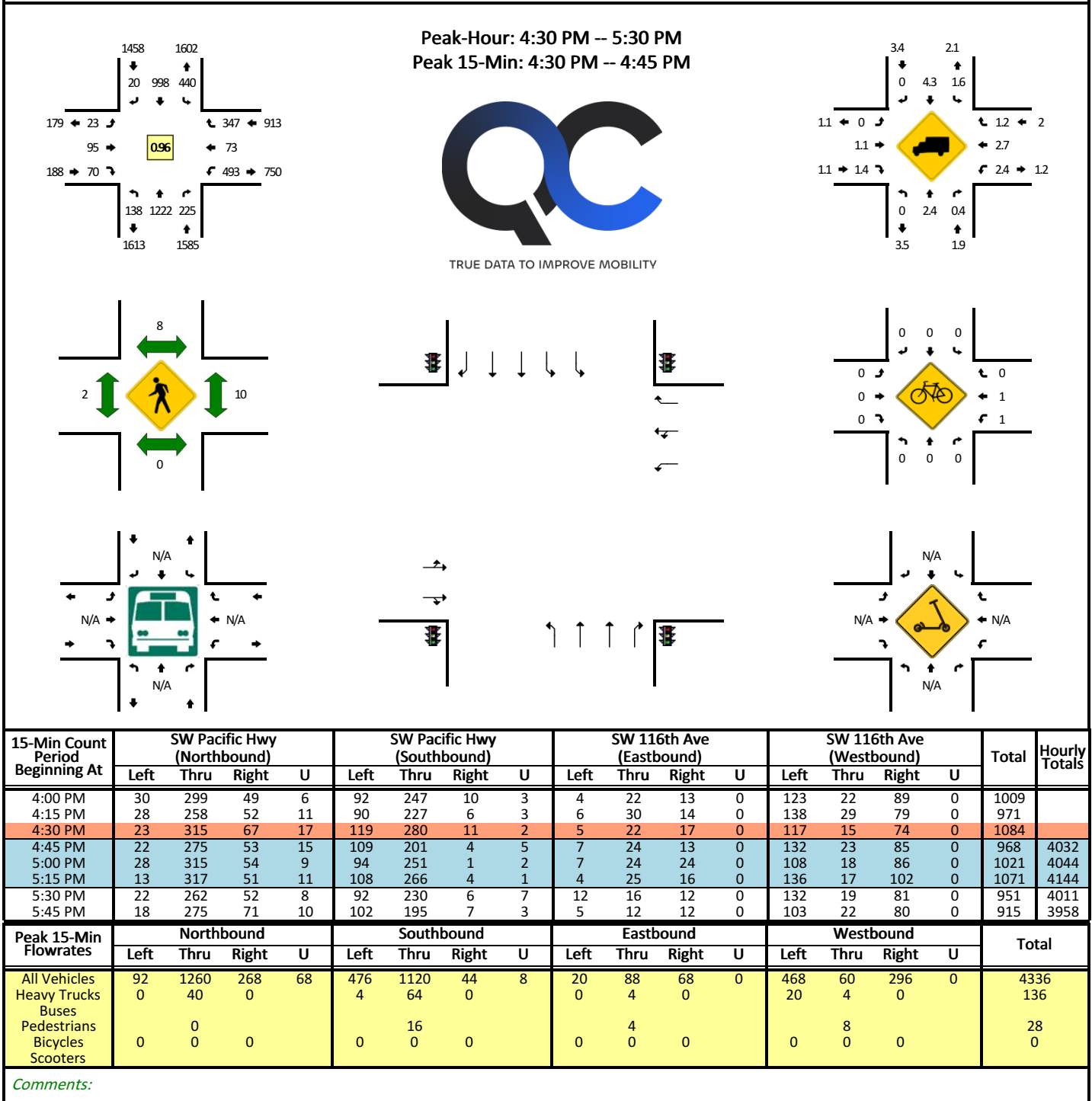
SOURCE: Quality Counts, LLC (<http://www.qualitycounts.net>) 1-877-580-2212

Type of peak hour being reported: System-wide Peak

Method for determining peak hour: Total Entering Volume

**LOCATION:** SW Pacific Hwy -- SW 116th Ave  
**CITY/STATE:** King City, OR

**QC JOB #:** 17042824  
**DATE:** Tue, May 13 2025



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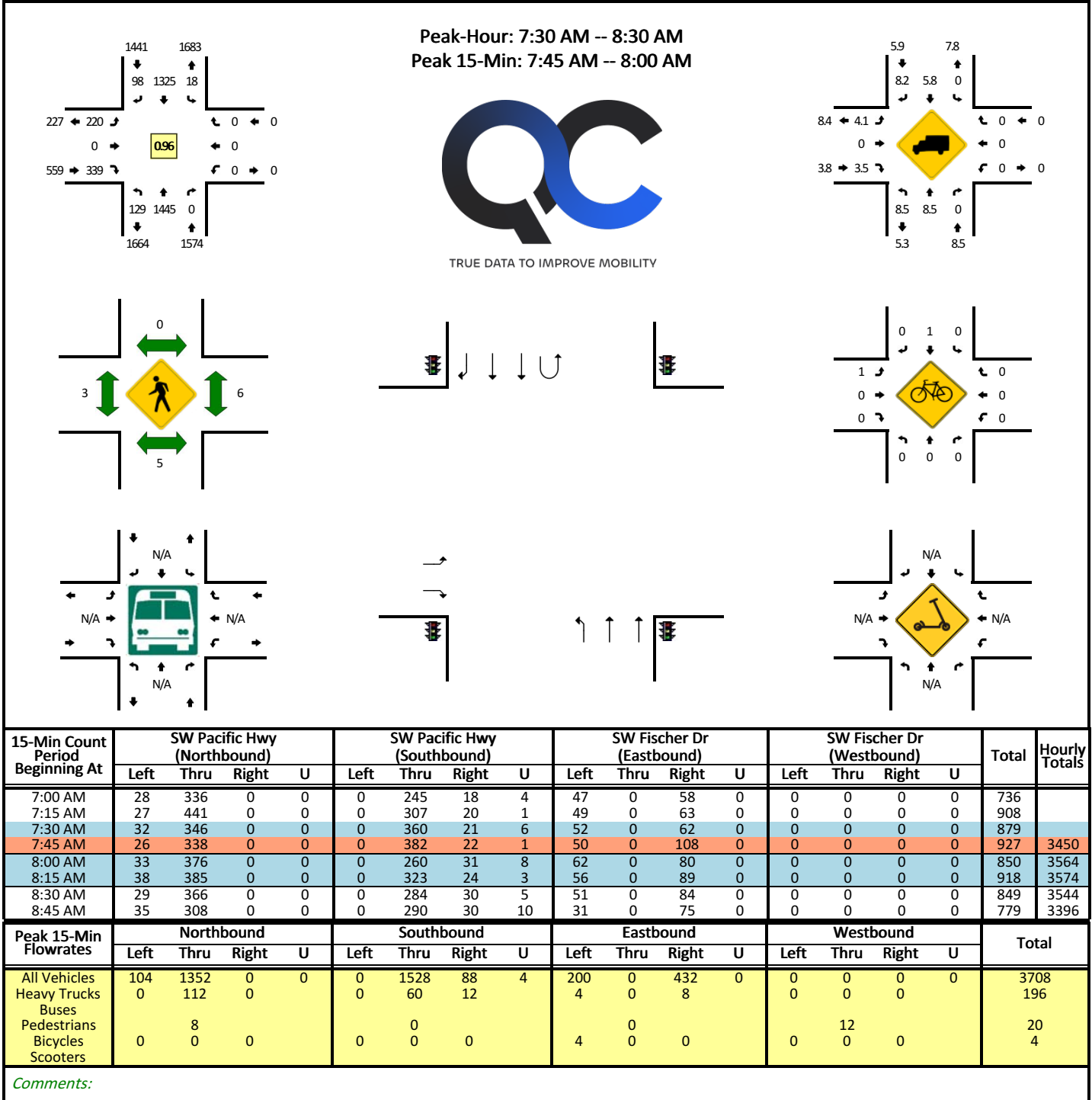
SOURCE: Quality Counts, LLC (<http://www.qualitycounts.net>) 1-877-580-2212

Type of peak hour being reported: System-wide Peak

Method for determining peak hour: Total Entering Volume

**LOCATION:** SW Pacific Hwy -- SW Fischer Dr  
**CITY/STATE:** Washington County, OR

**QC JOB #:** 17042825  
**DATE:** Tue, May 13 2025



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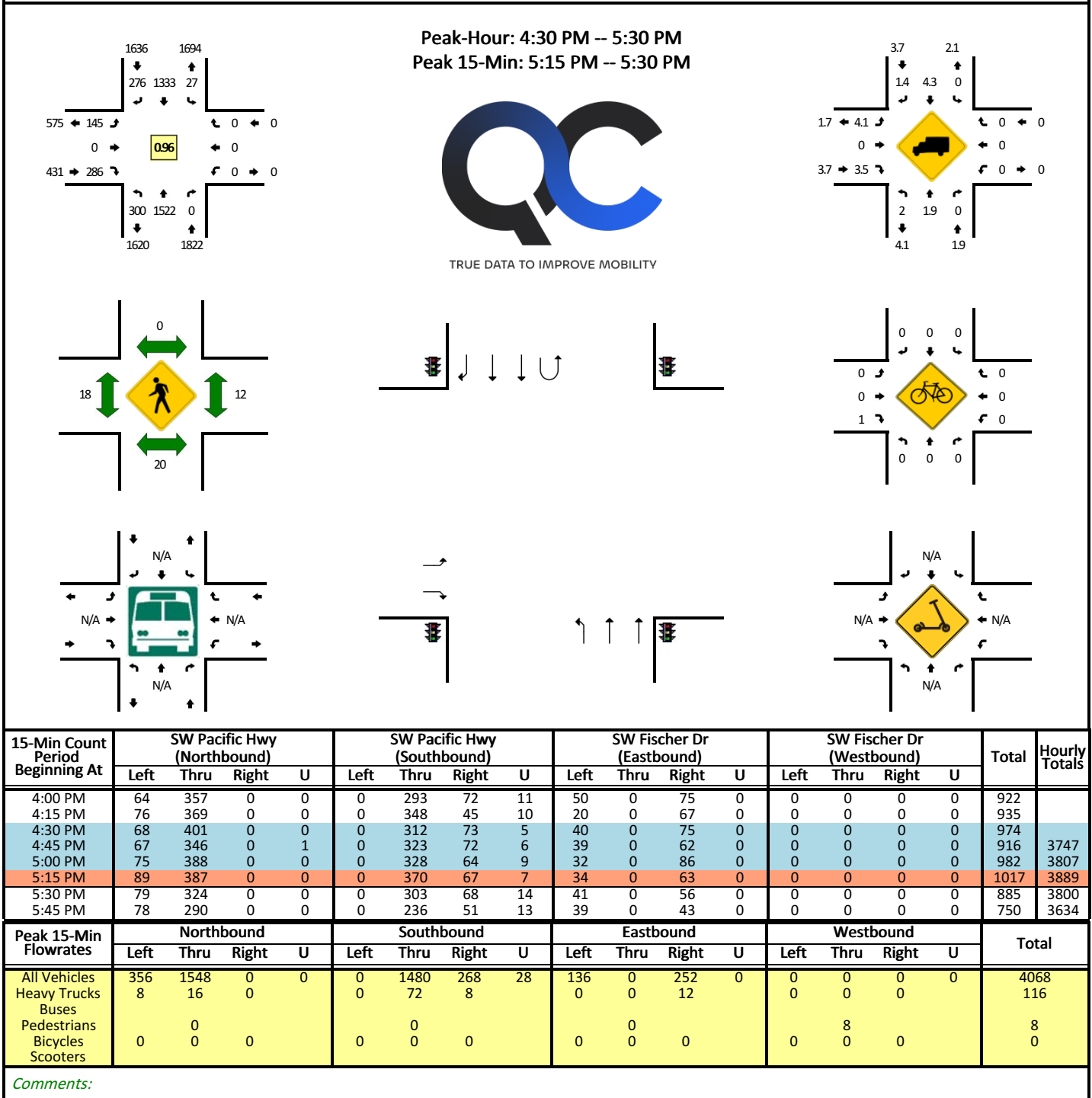
SOURCE: Quality Counts, LLC (<http://www.qualitycounts.net>) 1-877-580-2212

Type of peak hour being reported: System-wide Peak

Method for determining peak hour: Total Entering Volume

**LOCATION:** SW Pacific Hwy -- SW Fischer Dr  
**CITY/STATE:** Washington County, OR

**QC JOB #:** 17042826  
**DATE:** Tue, May 13 2025



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SOURCE: Quality Counts, LLC (<http://www.qualitycounts.net>) 1-877-580-2212

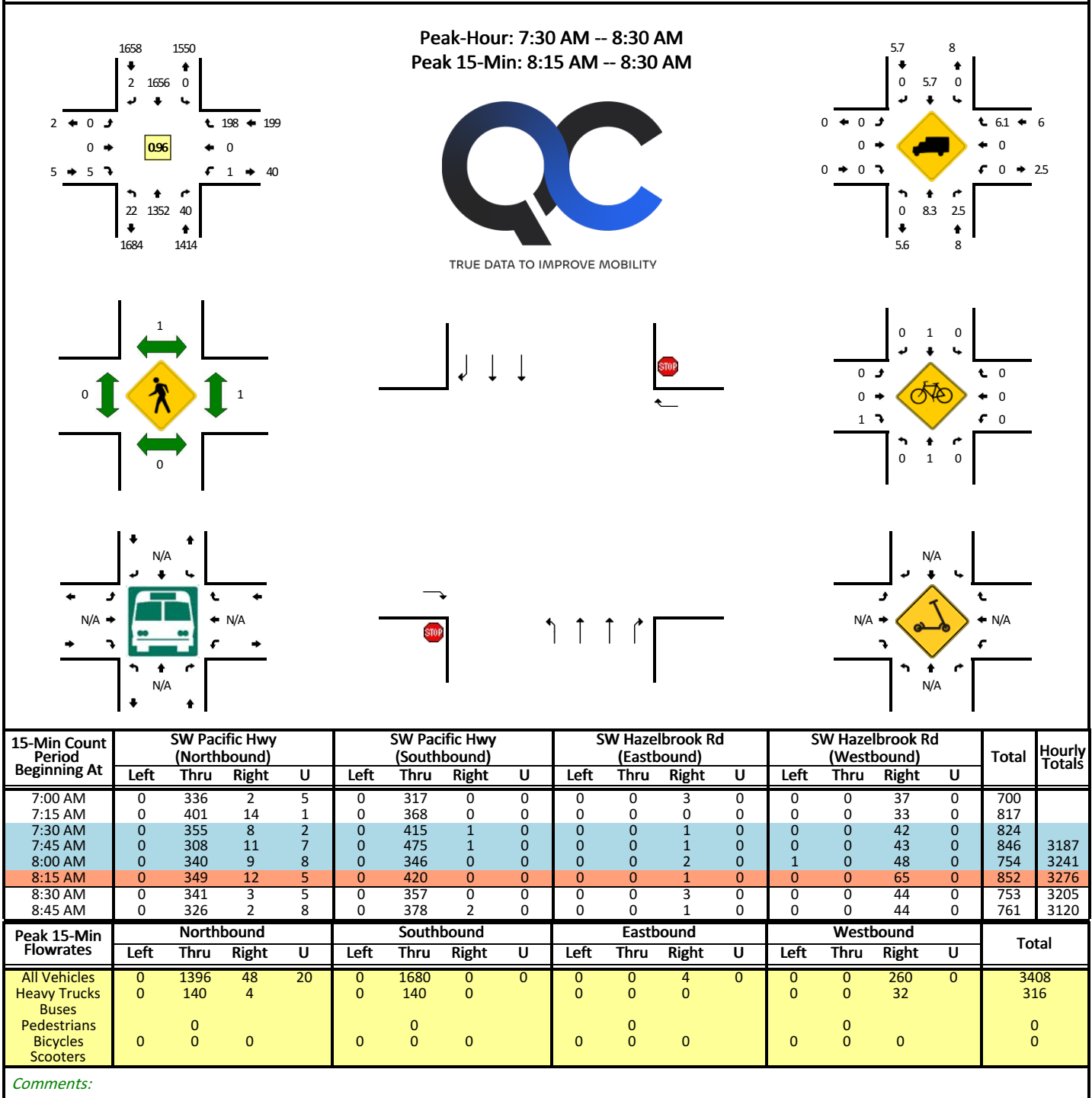


Type of peak hour being reported: System-wide Peak

Method for determining peak hour: Total Entering Volume

**LOCATION:** SW Pacific Hwy -- SW Hazelbrook Rd  
**CITY/STATE:** Tualatin, OR

**QC JOB #:** 17042837  
**DATE:** Tue, May 13 2025



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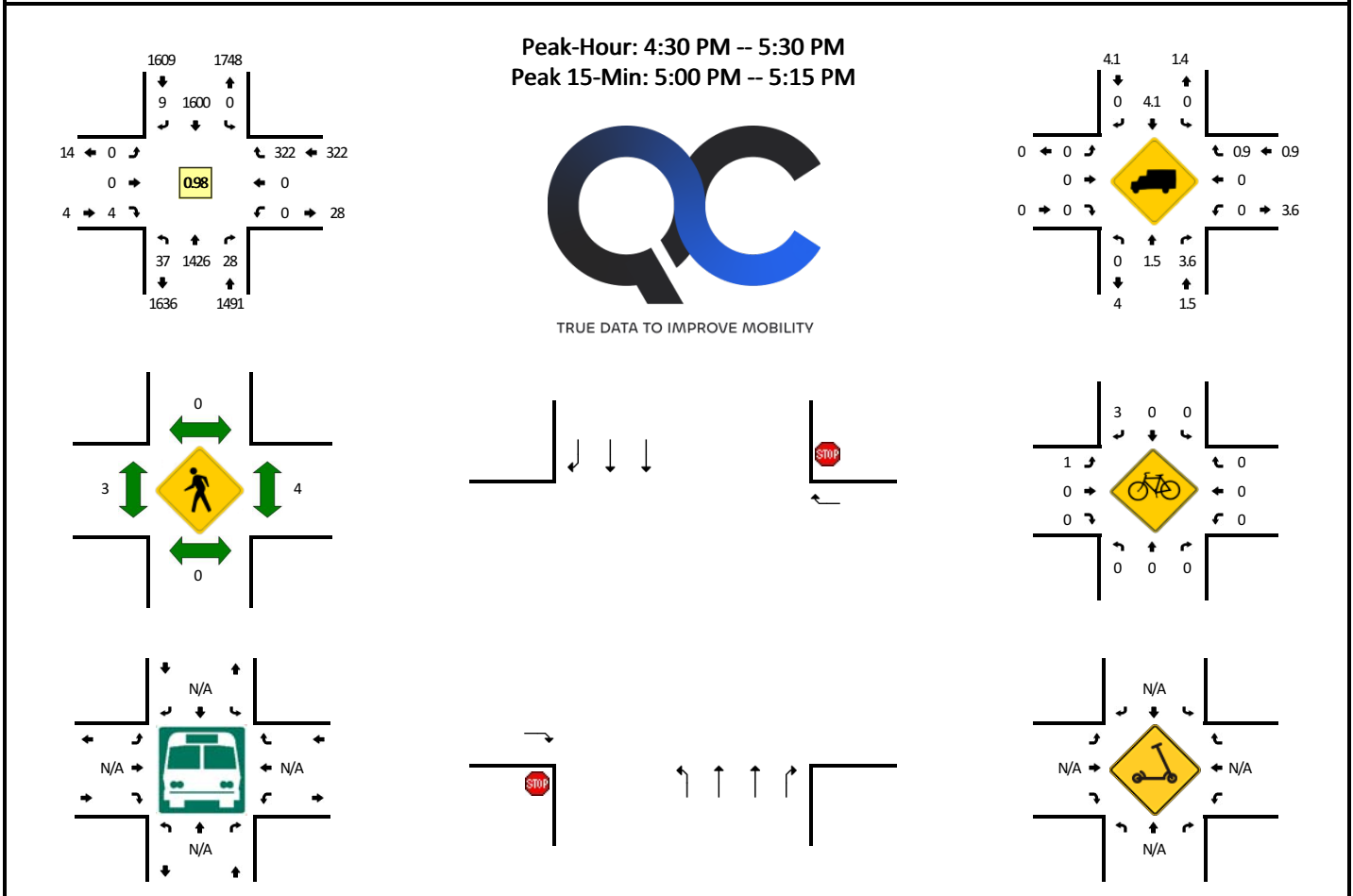
SOURCE: Quality Counts, LLC (<http://www.qualitycounts.net>) 1-877-580-2212

Type of peak hour being reported: User-Defined

Method for determining peak hour: Total Entering Volume

**LOCATION:** SW Pacific Hwy -- SW Hazelbrook Rd  
**CITY/STATE:** Tualatin, OR

**QC JOB #:** 17042838  
**DATE:** Tue, May 13 2025



15-Min Count Period Beginning At	SW Pacific Hwy (Northbound)				SW Pacific Hwy (Southbound)				SW Hazelbrook Rd (Eastbound)				SW Hazelbrook Rd (Westbound)				Total	Hourly Totals
	Left	Thru	Right	U	Left	Thru	Right	U	Left	Thru	Right	U	Left	Thru	Right	U		
3:00 PM	1	374	12	5	0	449	2	0	0	0	1	0	0	0	50	0	894	
3:15 PM	1	336	5	8	0	404	1	0	0	0	1	0	0	0	72	0	828	
3:30 PM	3	358	6	5	0	413	2	0	0	0	1	0	0	0	64	0	852	
3:45 PM	5	367	4	2	0	381	1	0	0	0	2	0	0	0	65	0	827	3401
4:00 PM	0	407	6	11	0	375	0	0	0	0	1	0	0	0	73	0	873	3380
4:15 PM	0	333	4	5	0	407	0	0	0	0	1	0	0	0	97	0	847	3399
4:30 PM	1	361	4	7	0	387	2	0	0	0	0	0	0	0	90	0	852	3399
4:45 PM	2	338	13	6	0	395	3	0	0	0	2	0	0	0	67	0	826	3398
5:00 PM	1	380	5	7	0	402	2	0	0	0	2	0	0	0	78	0	877	3402
5:15 PM	1	347	6	12	0	416	2	0	0	0	0	0	0	0	87	0	871	3426
5:30 PM	2	337	1	15	0	351	1	0	0	0	2	0	0	0	73	0	782	3356
5:45 PM	2	311	6	9	0	295	0	0	0	0	5	0	0	0	53	0	681	3211
Peak 15-Min Flowrates	Northbound				Southbound				Eastbound				Westbound				Total	
	Left	Thru	Right	U	Left	Thru	Right	U	Left	Thru	Right	U	Left	Thru	Right	U		
All Vehicles	4	1520	20	28	0	1608	8	0	0	0	8	0	0	0	312	0	3508	
Heavy Trucks	0	12	0		0	36	0		0	0	0		0	0	4		52	
Buses																		
Pedestrians	0	0			0	0			8	0			0	0			8	
Bicycles	0	0	0		0	0	12		0	0	0		0	0	0		12	
Scooters																		

**Comments:**

Report generated on 6/2/2025 1:07 PM

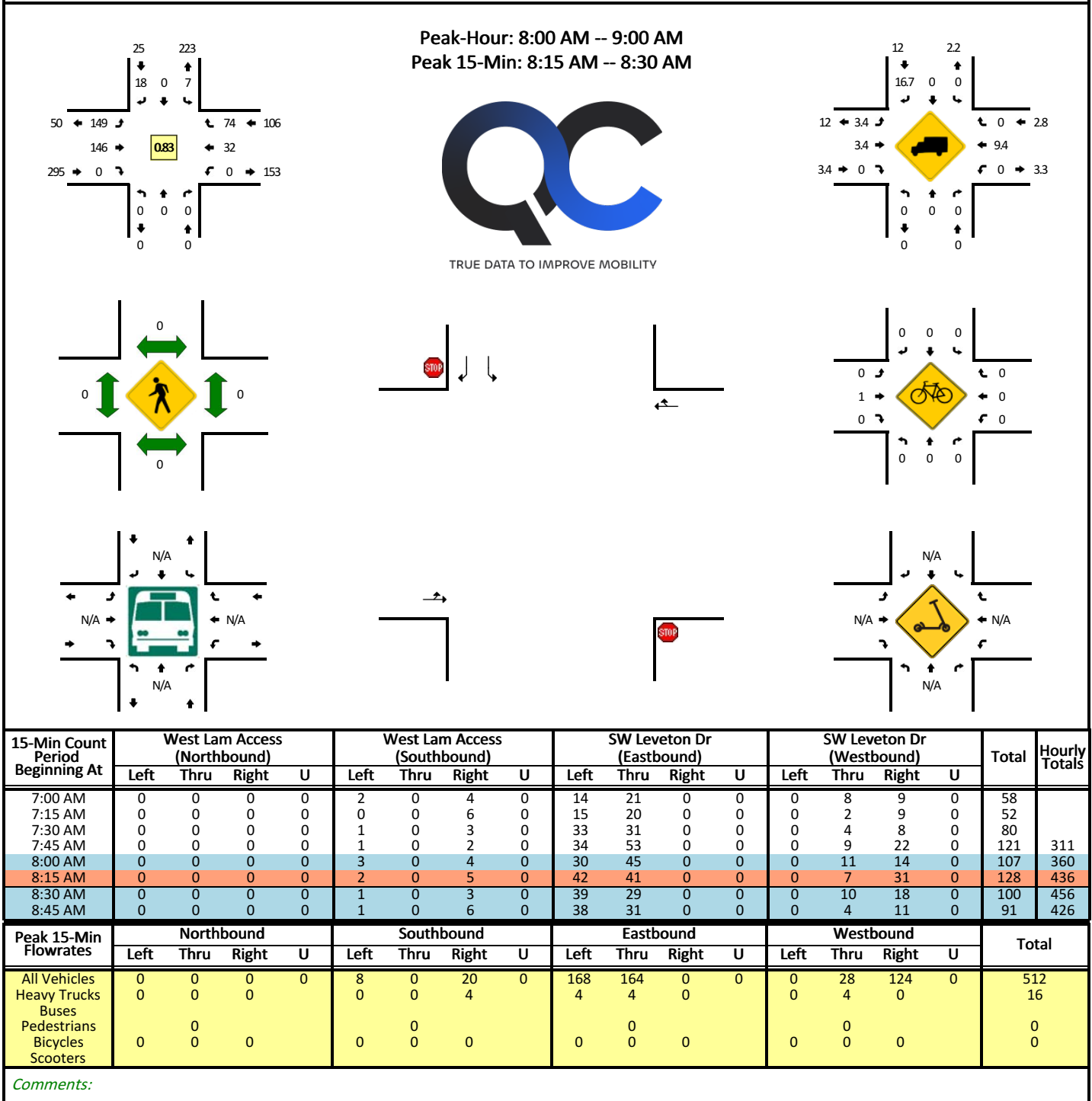
SOURCE: Quality Counts, LLC (<http://www.qualitycounts.net>) 1-877-580-2212

Type of peak hour being reported: User-Defined

Method for determining peak hour: Total Entering Volume

**LOCATION:** West Lam Access -- SW Leveton Dr  
**CITY/STATE:** Tualatin, OR

**QC JOB #:** 17042809  
**DATE:** Tue, May 13 2025



Report generated on 6/2/2025 1:08 PM

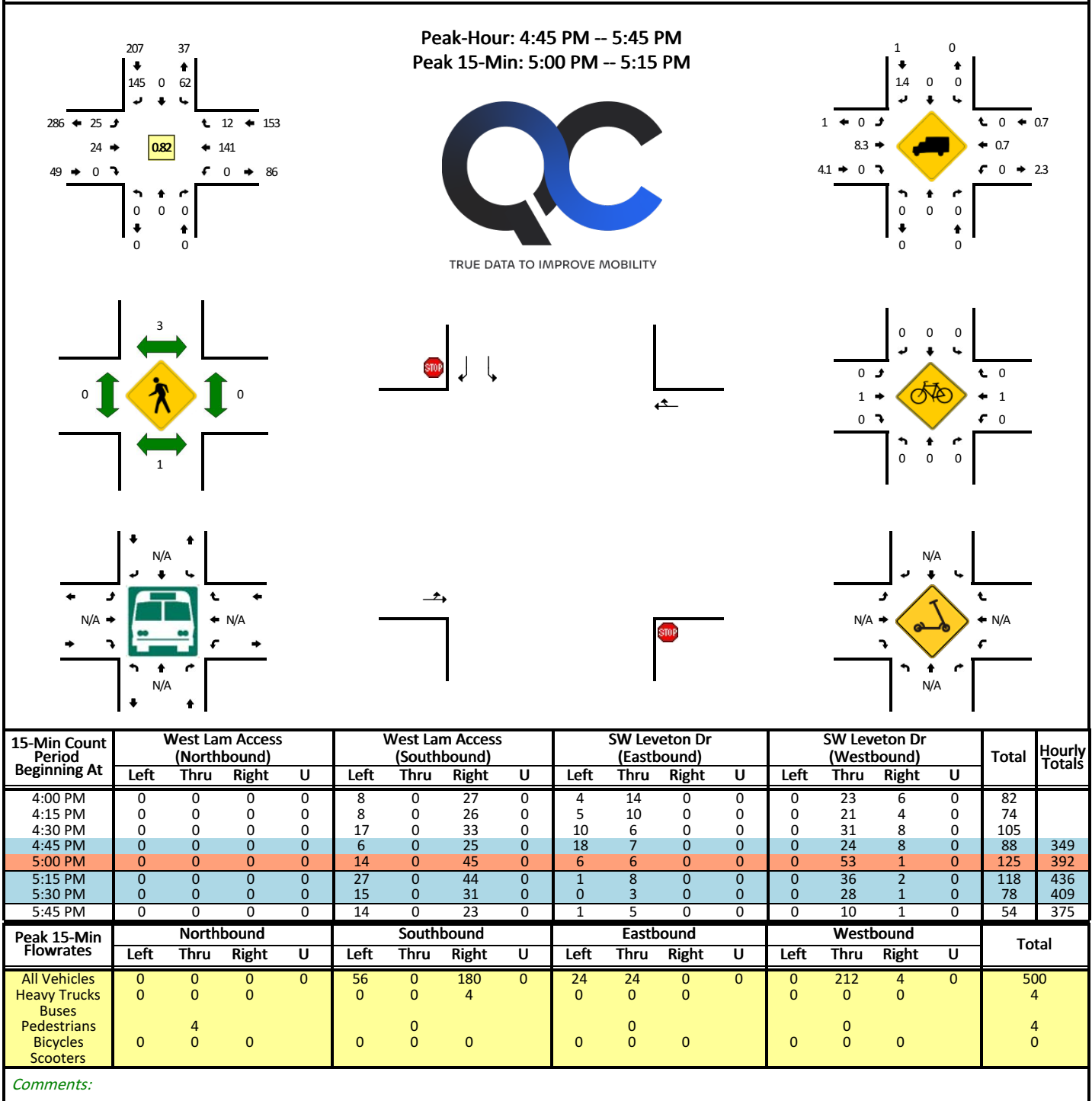
SOURCE: Quality Counts, LLC (<http://www.qualitycounts.net>) 1-877-580-2212

Type of peak hour being reported: User-Defined

Method for determining peak hour: Total Entering Volume

**LOCATION:** West Lam Access -- SW Leveton Dr  
**CITY/STATE:** Tualatin, OR

**QC JOB #:** 17042810  
**DATE:** Tue, May 13 2025



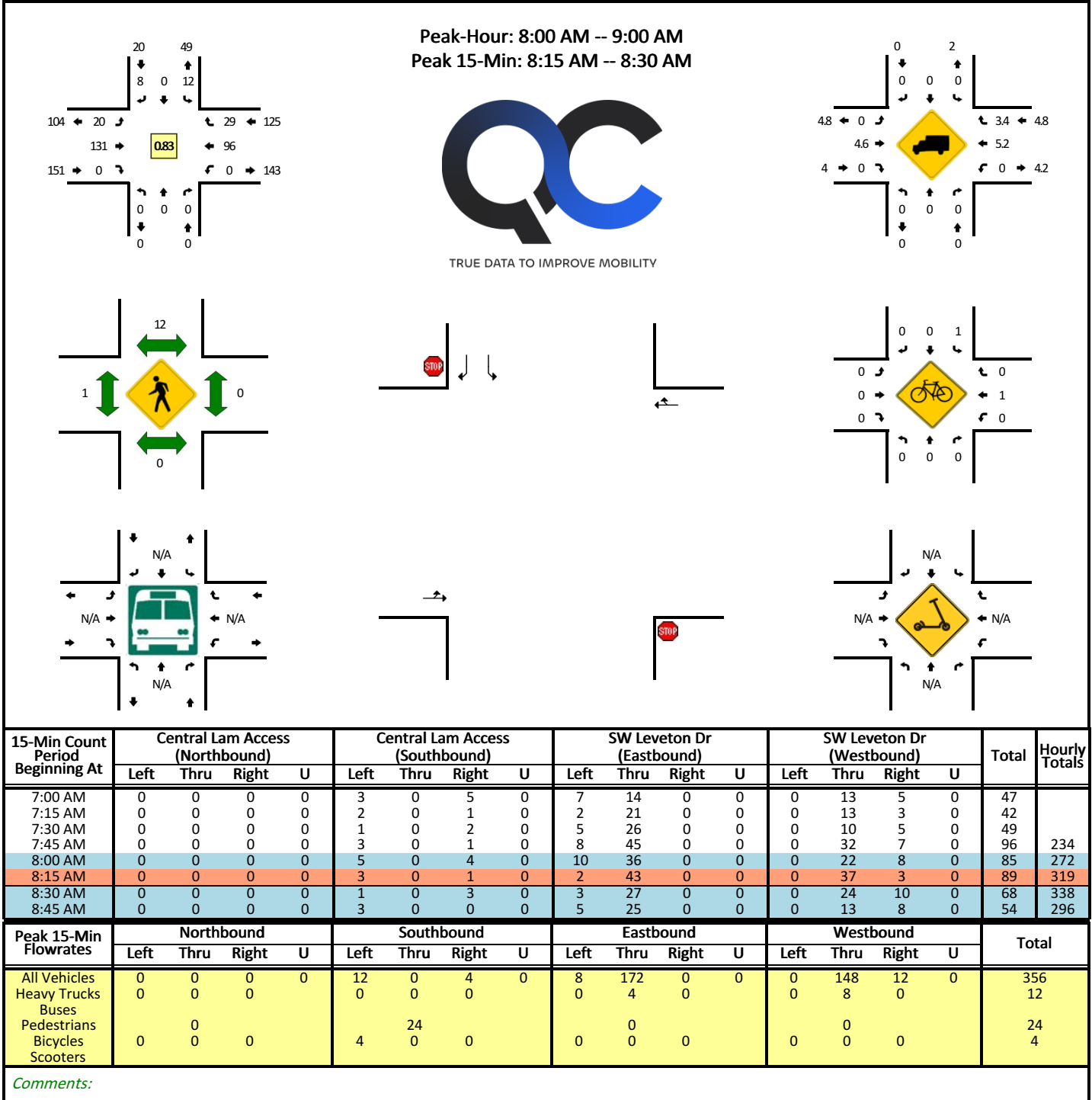
Report generated on 6/2/2025 1:10 PM

SOURCE: Quality Counts, LLC (<http://www.qualitycounts.net>) 1-877-580-2212



Type of peak hour being reported: User-Defined

Method for determining peak hour: Total Entering Volume

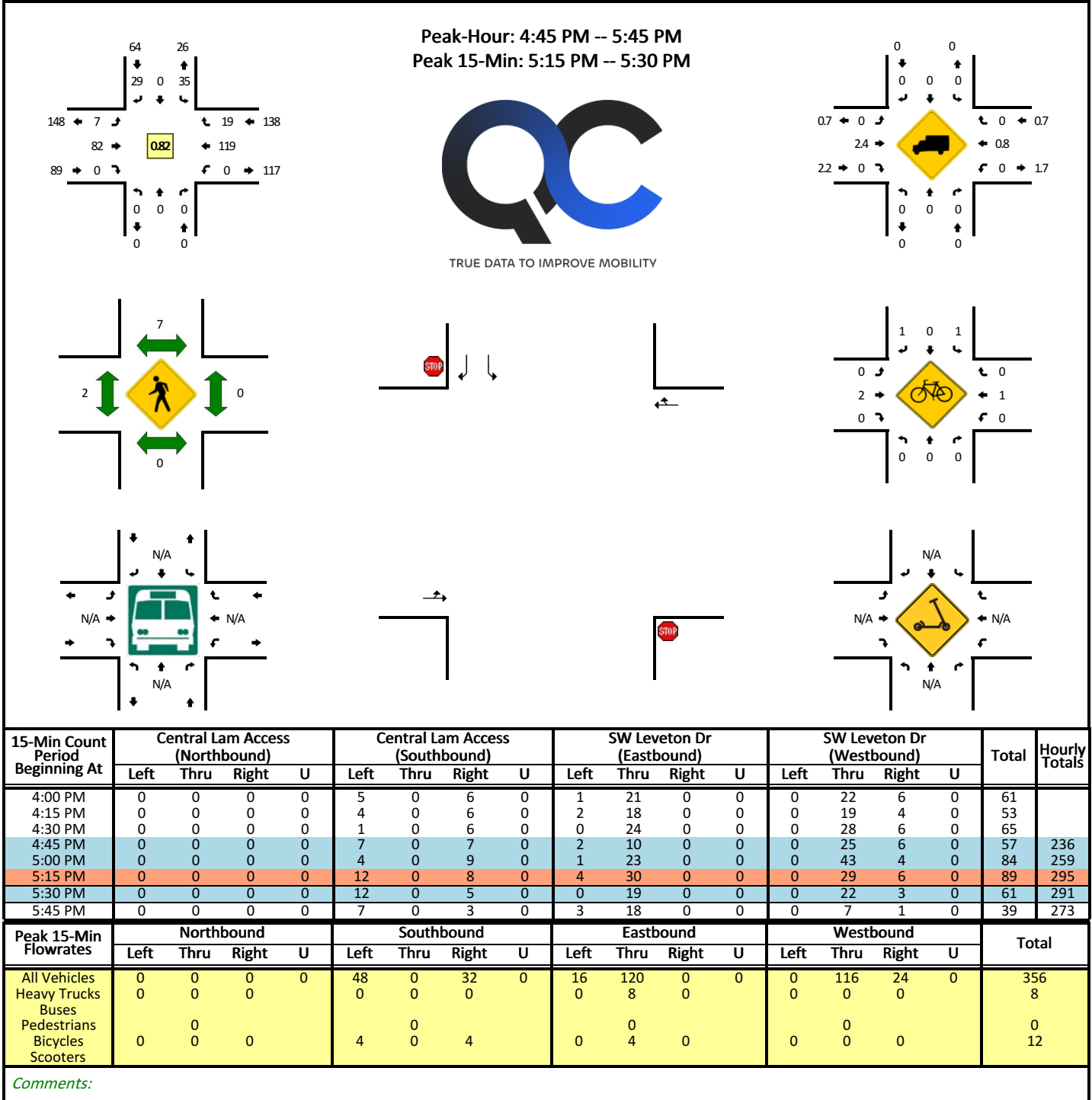
**LOCATION:** Central Lam Access -- SW Leveton Dr**QC JOB #:** 17042811**CITY/STATE:** Tualatin, OR**DATE:** Tue, May 13 2025

Report generated on 6/2/2025 1:08 PM

SOURCE: Quality Counts, LLC (<http://www.qualitycounts.net>) 1-877-580-2212

Type of peak hour being reported: User-Defined

Method for determining peak hour: Total Entering Volume

**LOCATION:** Central Lam Access -- SW Leveton Dr**QC JOB #:** 17042812**CITY/STATE:** Tualatin, OR**DATE:** Tue, May 13 2025

Report generated on 6/2/2025 1:10 PM

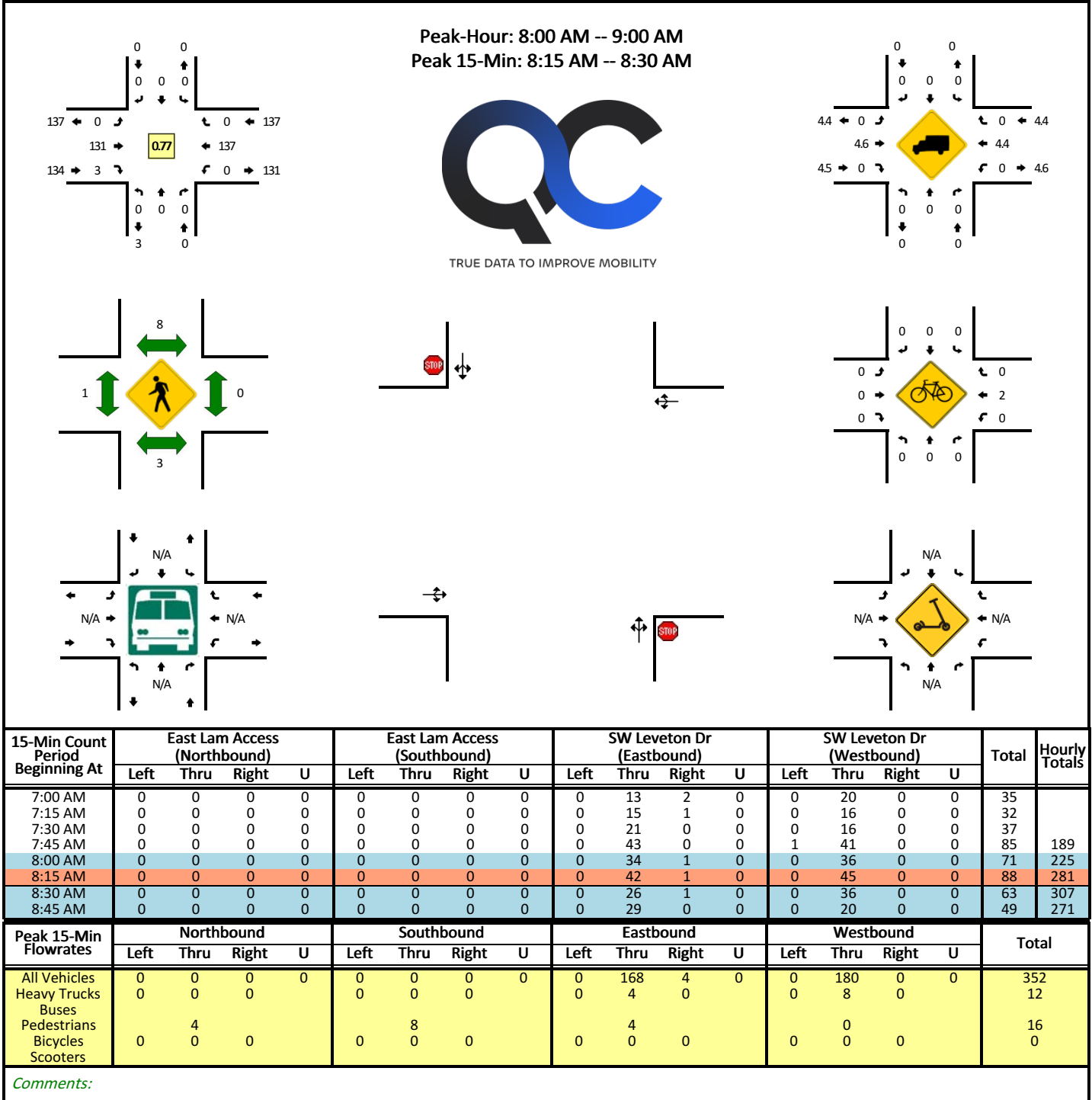
SOURCE: Quality Counts, LLC (<http://www.qualitycounts.net>) 1-877-580-2212

Type of peak hour being reported: User-Defined

Method for determining peak hour: Total Entering Volume

**LOCATION:** East Lam Access -- SW Leveton Dr  
**CITY/STATE:** Tualatin, OR

**QC JOB #:** 17042813  
**DATE:** Tue, May 13 2025



Report generated on 6/2/2025 1:08 PM

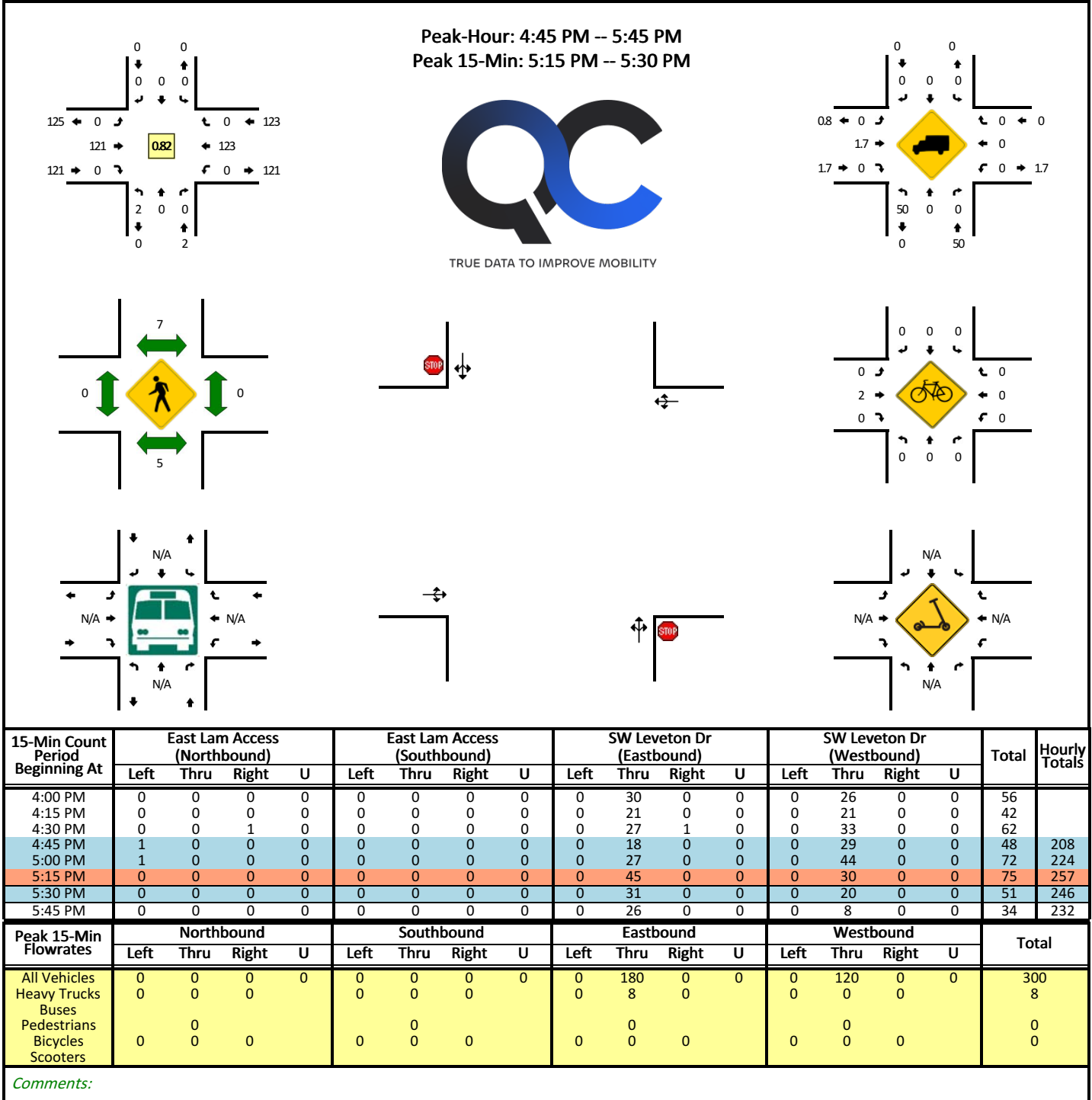
SOURCE: Quality Counts, LLC (<http://www.qualitycounts.net>) 1-877-580-2212

Type of peak hour being reported: User-Defined

Method for determining peak hour: Total Entering Volume

**LOCATION:** East Lam Access -- SW Leveton Dr  
**CITY/STATE:** Tualatin, OR

**QC JOB #:** 17042814  
**DATE:** Tue, May 13 2025

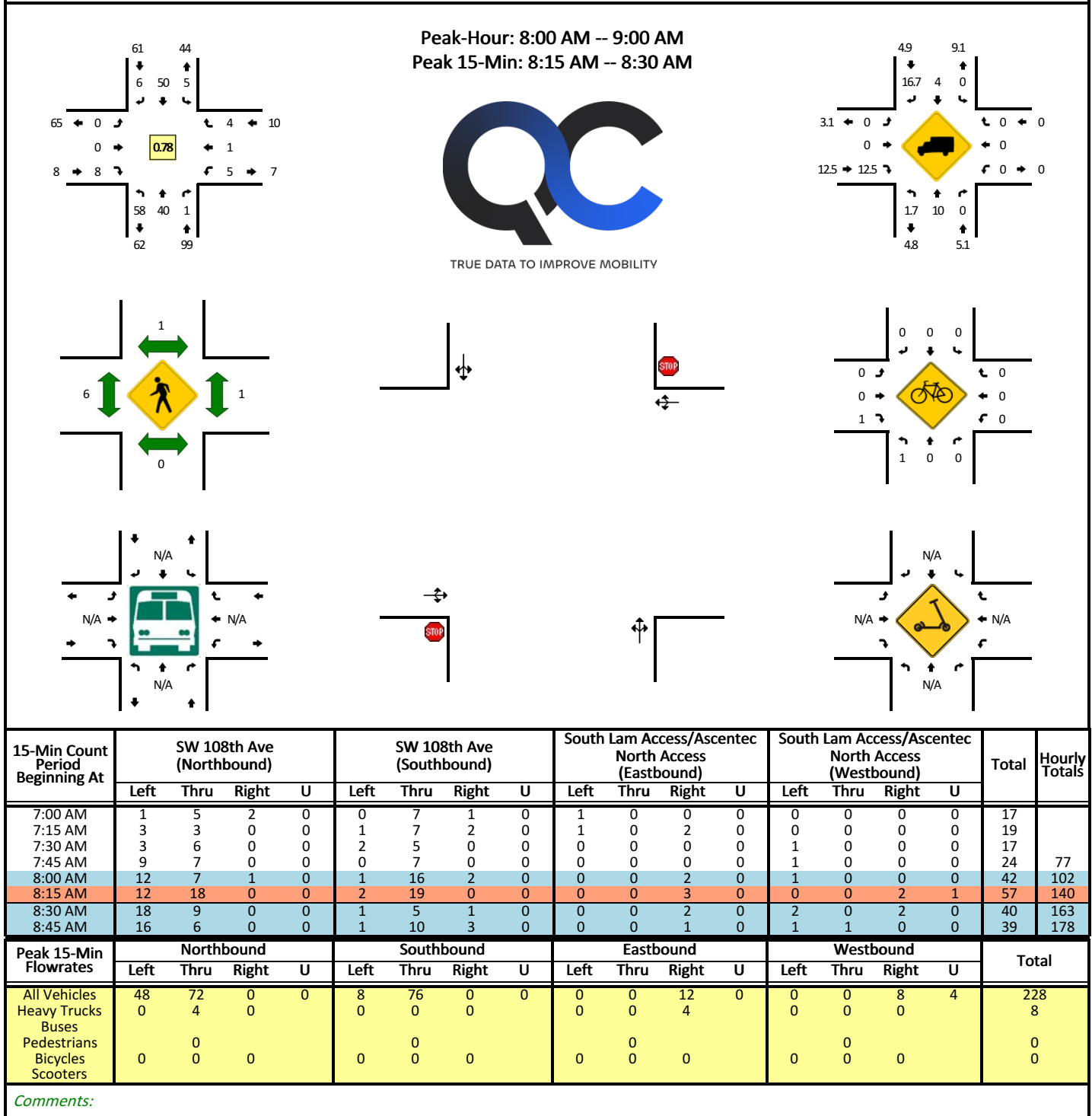


Report generated on 6/2/2025 1:10 PM

SOURCE: Quality Counts, LLC (<http://www.qualitycounts.net>) 1-877-580-2212

Type of peak hour being reported: User-Defined

Method for determining peak hour: Total Entering Volume

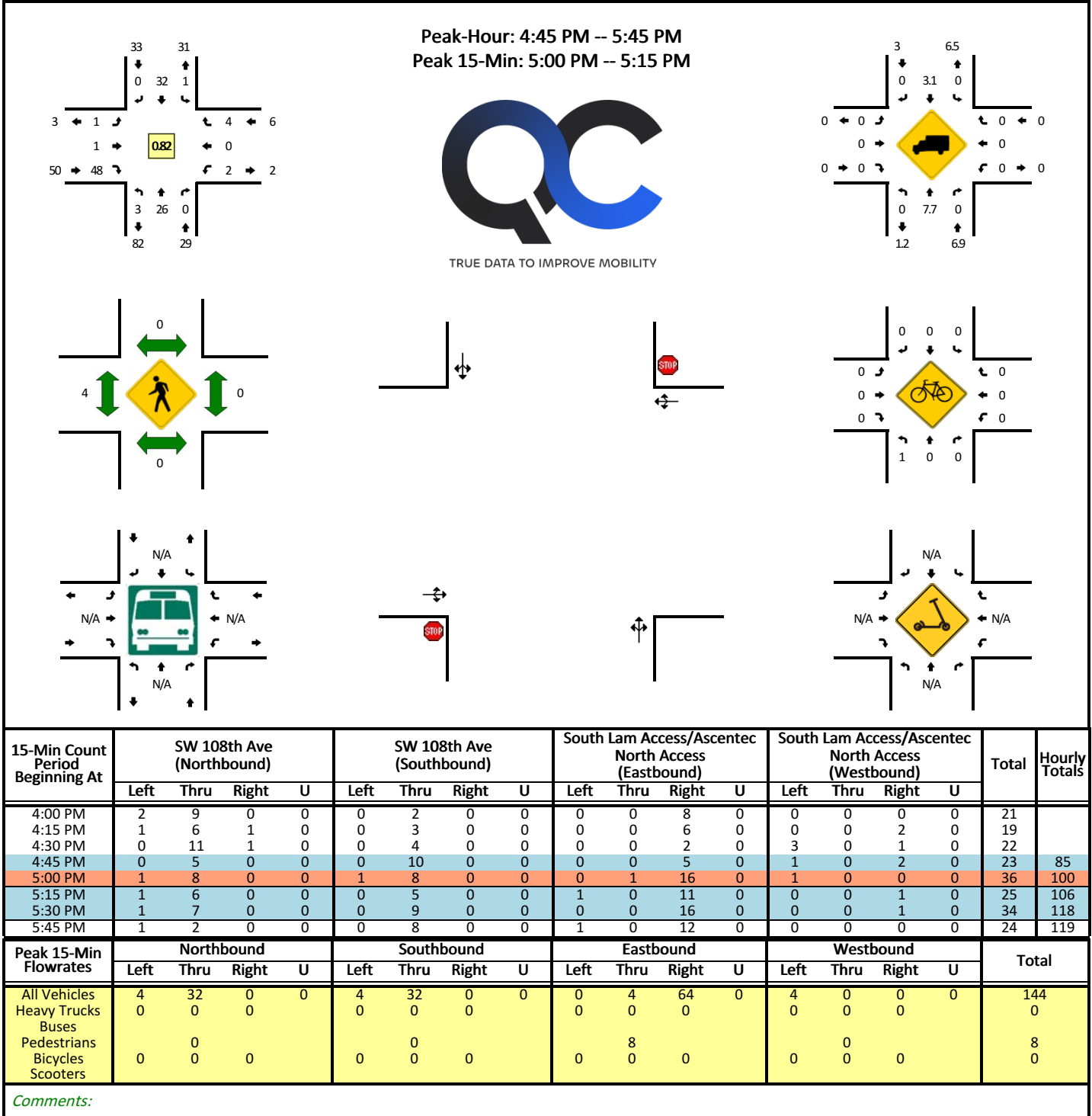
**LOCATION:** SW 108th Ave -- South Lam Access/Ascentec North Access**QC JOB #:** 17042827**CITY/STATE:** Tualatin, OR**DATE:** Tue, May 13 2025

Report generated on 6/2/2025 1:08 PM

SOURCE: Quality Counts, LLC (<http://www.qualitycounts.net>) 1-877-580-2212

Type of peak hour being reported: User-Defined

Method for determining peak hour: Total Entering Volume

**LOCATION:** SW 108th Ave -- South Lam Access/Ascentec North Access**QC JOB #:** 17042828**CITY/STATE:** Tualatin, OR**DATE:** Tue, May 13 2025

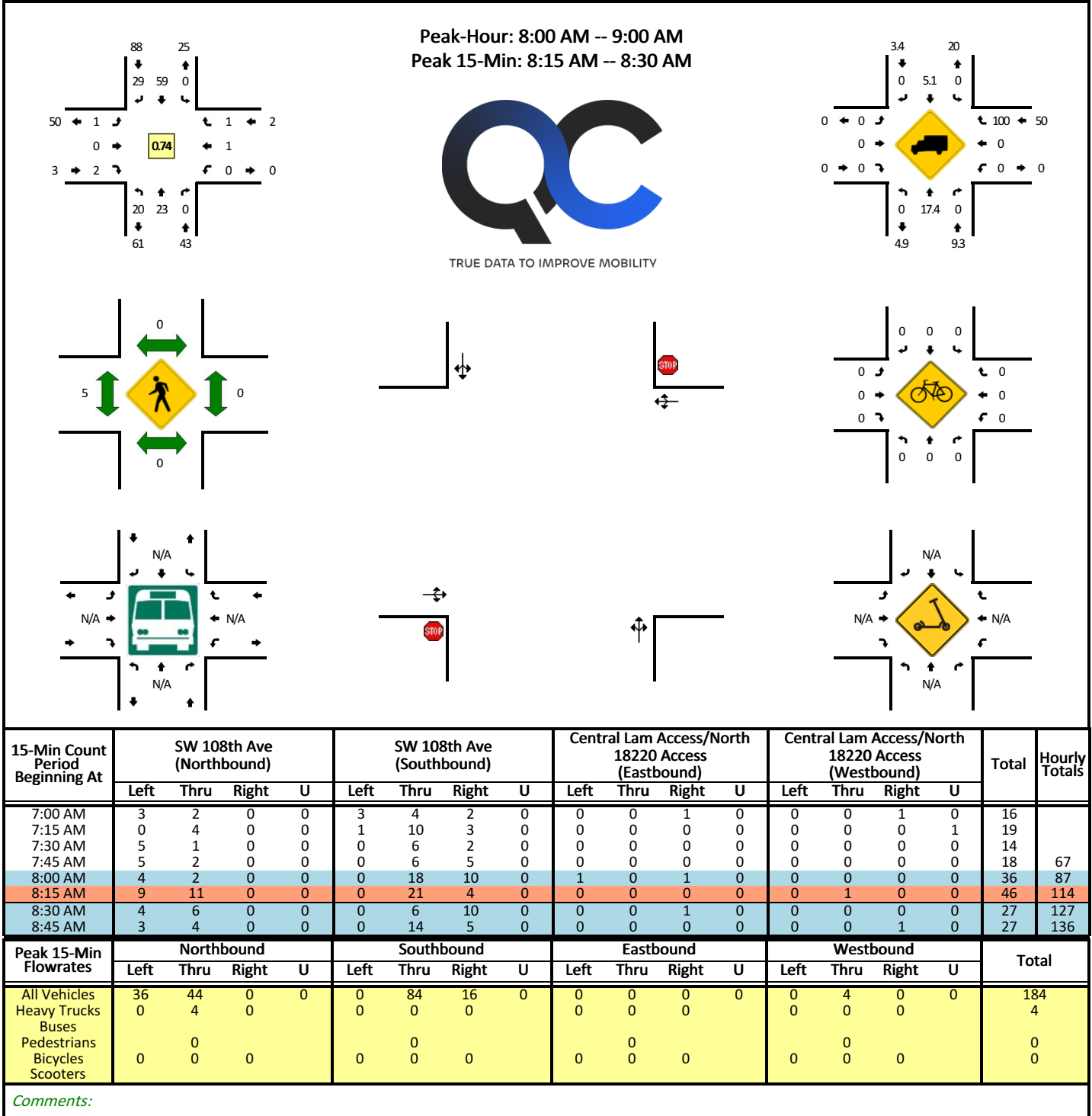
Report generated on 6/2/2025 1:10 PM

SOURCE: Quality Counts, LLC (<http://www.qualitycounts.net>) 1-877-580-2212



Type of peak hour being reported: User-Defined

Method for determining peak hour: Total Entering Volume

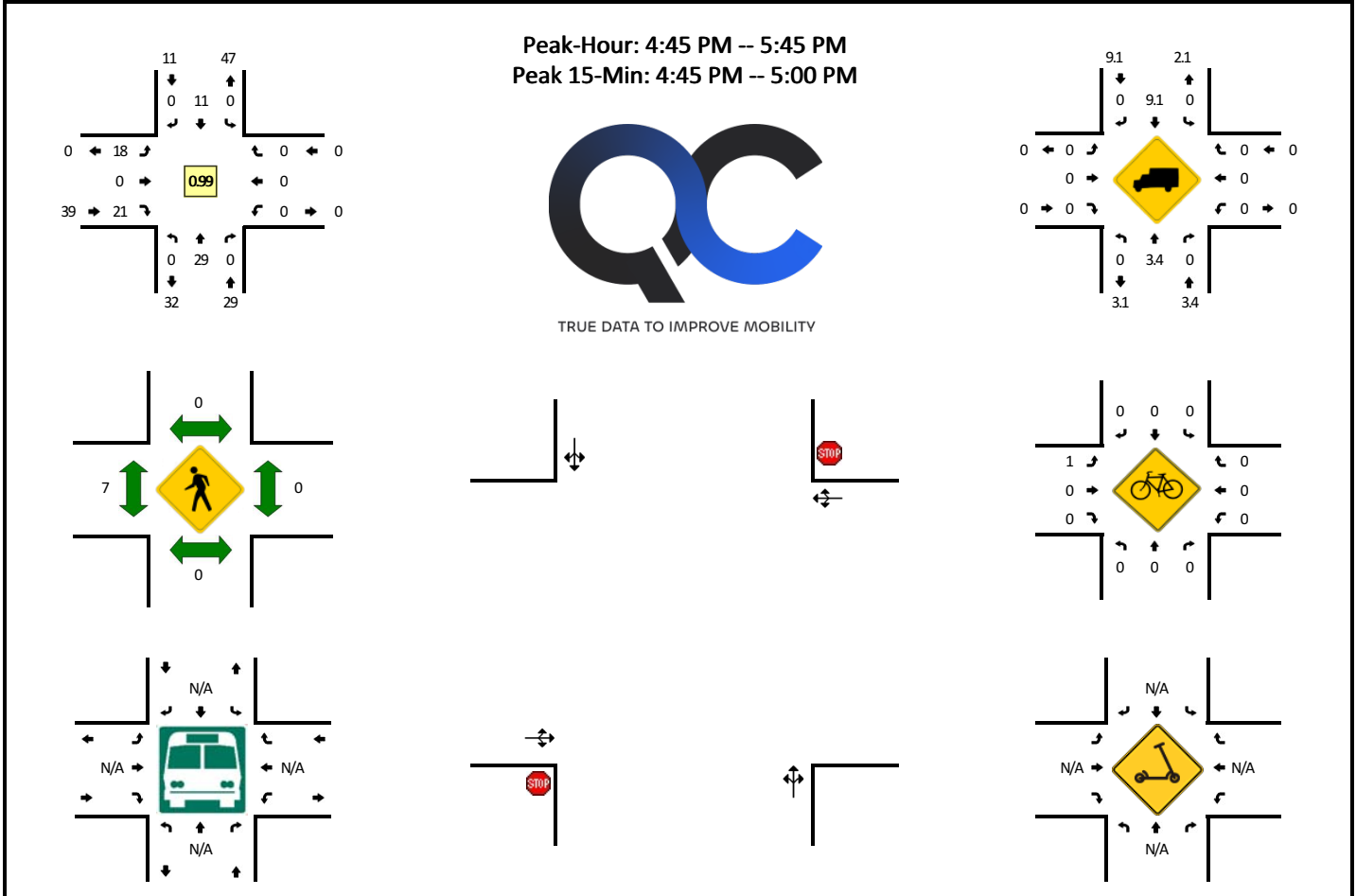
**LOCATION:** SW 108th Ave -- Central Lam Access/North 18220 Access**QC JOB #:** 17042829**CITY/STATE:** Tualatin, OR**DATE:** Tue, May 13 2025

Report generated on 6/2/2025 1:08 PM

SOURCE: Quality Counts, LLC (<http://www.qualitycounts.net>) 1-877-580-2212

Type of peak hour being reported: User-Defined

Method for determining peak hour: Total Entering Volume

**LOCATION:** SW 108th Ave -- Central Lam Access/North 18220 Access**QC JOB #:** 17042830**CITY/STATE:** Tualatin, OR**DATE:** Tue, May 13 2025

15-Min Count Period Beginning At	SW 108th Ave (Northbound)				SW 108th Ave (Southbound)				Central Lam Access/North 18220 Access (Eastbound)				Central Lam Access/North 18220 Access (Westbound)				Total	Hourly Totals
	Left	Thru	Right	U	Left	Thru	Right	U	Left	Thru	Right	U	Left	Thru	Right	U		
4:00 PM	1	8	0	0	0	1	1	0	2	0	1	0	0	0	0	0	14	
4:15 PM	1	7	0	0	0	1	1	0	2	0	2	0	0	0	0	0	14	
4:30 PM	0	12	0	0	0	2	0	0	7	0	2	0	0	0	0	0	23	
4:45 PM	0	7	0	0	0	5	0	0	3	0	5	0	0	0	0	0	20	71
5:00 PM	0	8	0	0	0	3	0	0	2	0	6	0	0	0	0	0	19	76
5:15 PM	0	8	0	0	0	1	0	0	7	0	4	0	0	0	0	0	20	82
5:30 PM	0	6	0	0	0	2	0	0	6	0	6	0	0	0	0	0	20	79
5:45 PM	0	3	0	0	0	3	0	0	3	0	3	0	0	0	0	0	12	71
Peak 15-Min Flowrates	Northbound				Southbound				Eastbound				Westbound				Total	
	Left	Thru	Right	U	Left	Thru	Right	U	Left	Thru	Right	U	Left	Thru	Right	U		
All Vehicles	0	28	0	0	0	20	0	0	12	0	20	0	0	0	0	0	80	
Heavy Trucks	0	0	0	0	0	4	0	0	0	0	0	0	0	0	0	0	4	
Buses	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Pedestrians	0	0	0	0	0	0	0	0	0	4	0	0	0	0	0	0	4	
Bicycles	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Scooters	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	

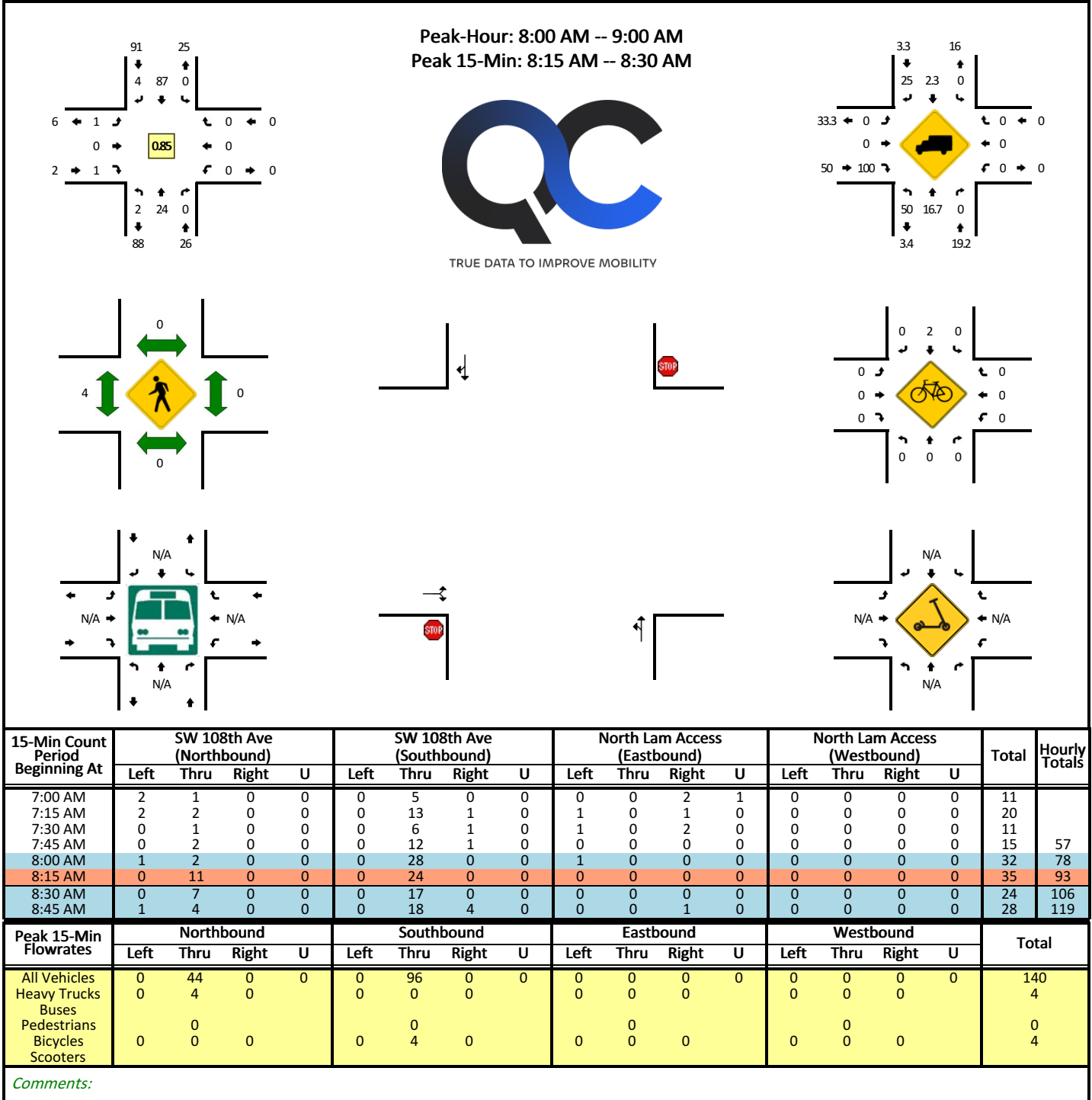
**Comments:**

Report generated on 6/2/2025 1:10 PM

SOURCE: Quality Counts, LLC (<http://www.qualitycounts.net>) 1-877-580-2212

Type of peak hour being reported: User-Defined

Method for determining peak hour: Total Entering Volume

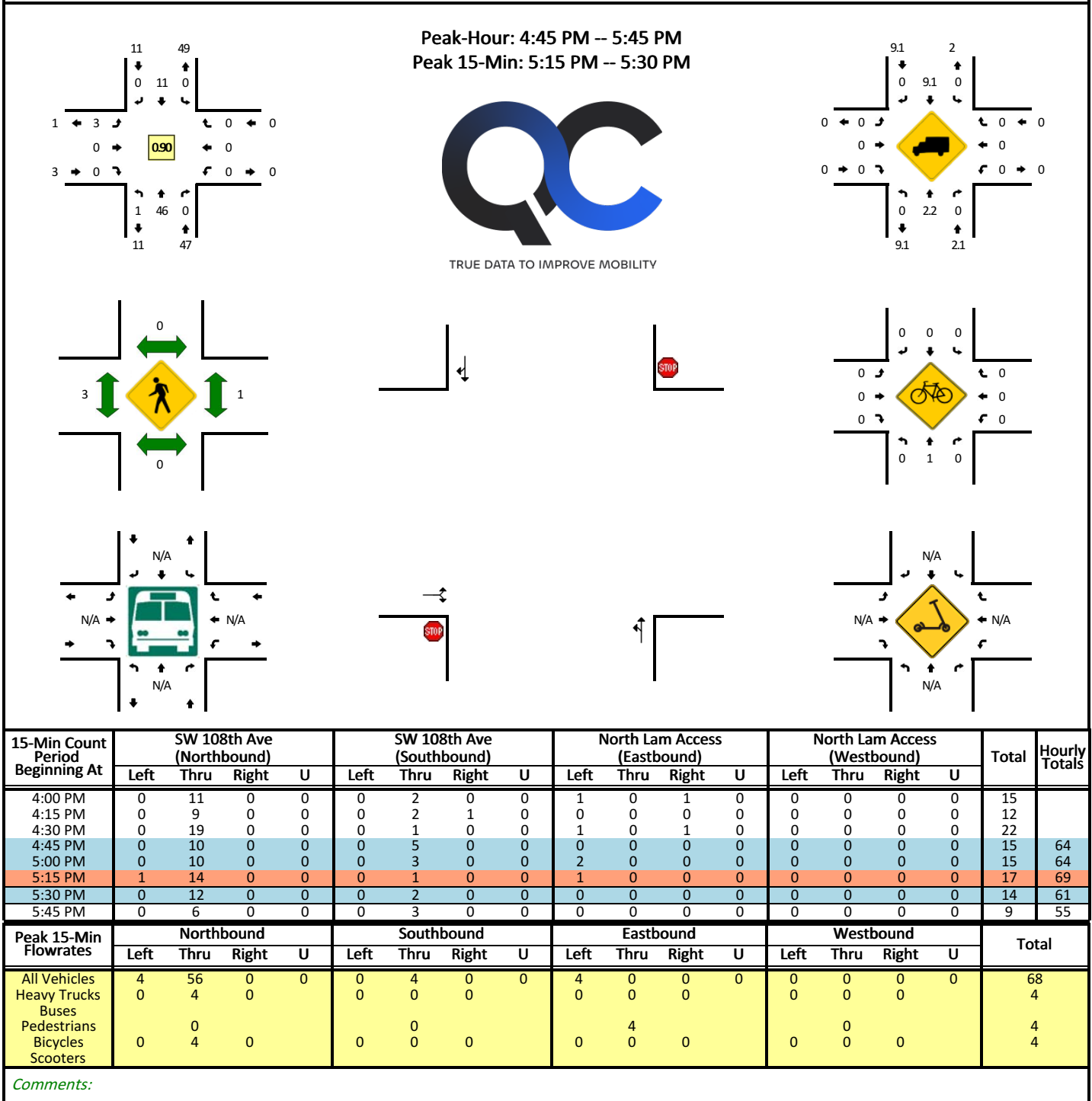
**LOCATION:** SW 108th Ave -- North Lam Access**QC JOB #:** 17042841**CITY/STATE:** Tualatin, OR**DATE:** Tue, May 13 2025

Report generated on 6/2/2025 1:08 PM

SOURCE: Quality Counts, LLC (<http://www.qualitycounts.net>) 1-877-580-2212

Type of peak hour being reported: User-Defined

Method for determining peak hour: Total Entering Volume

**LOCATION:** SW 108th Ave -- North Lam Access**QC JOB #:** 17042842**CITY/STATE:** Tualatin, OR**DATE:** Tue, May 13 2025

Report generated on 6/2/2025 1:10 PM

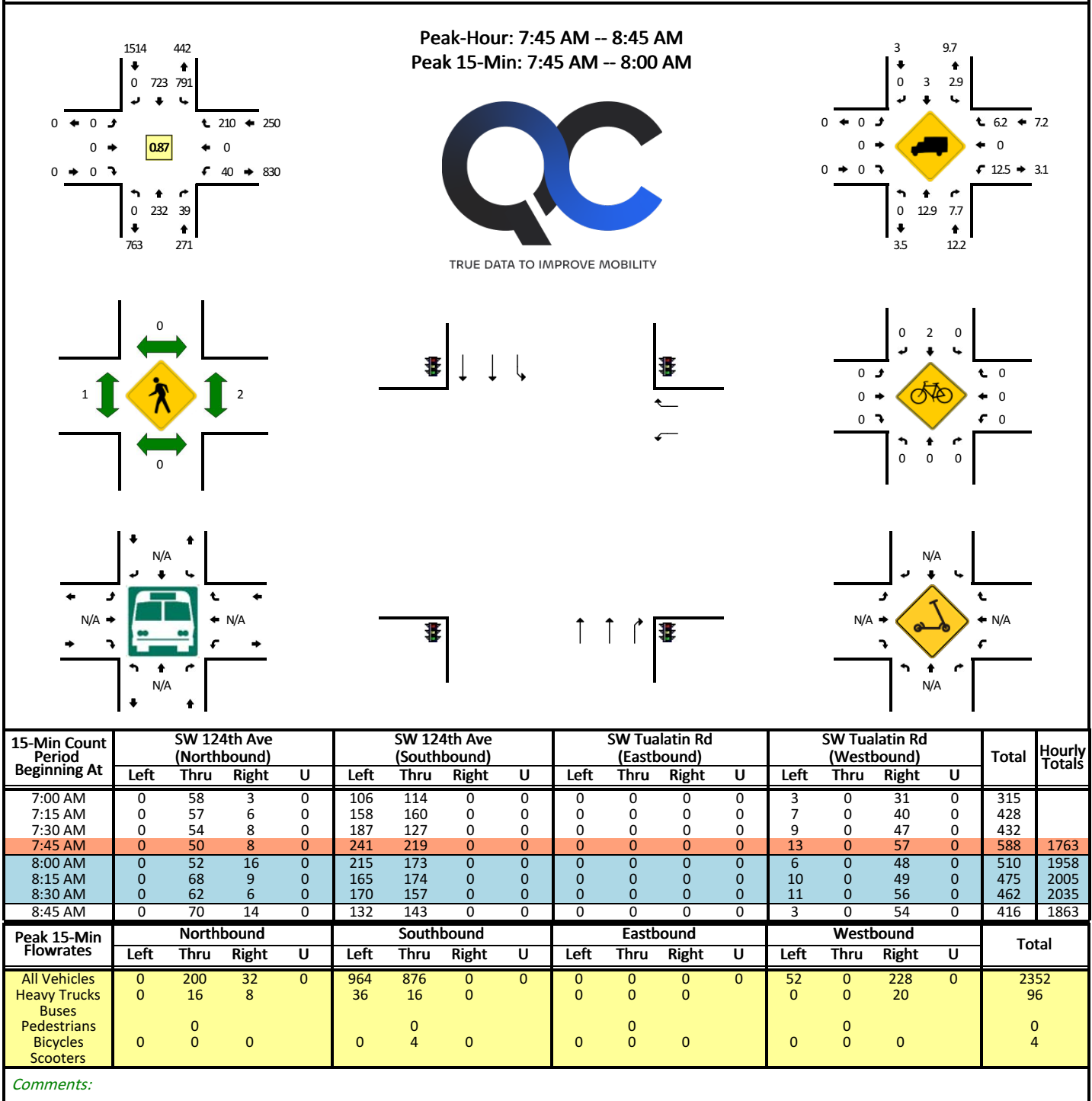
SOURCE: Quality Counts, LLC (<http://www.qualitycounts.net>) 1-877-580-2212

Type of peak hour being reported: Intersection Peak

Method for determining peak hour: Total Entering Volume

**LOCATION:** SW 124th Ave -- SW Tualatin Rd  
**CITY/STATE:** Tualatin, OR

**QC JOB #:** 17042803  
**DATE:** Tue, May 13 2025



Report generated on 6/2/2025 1:12 PM

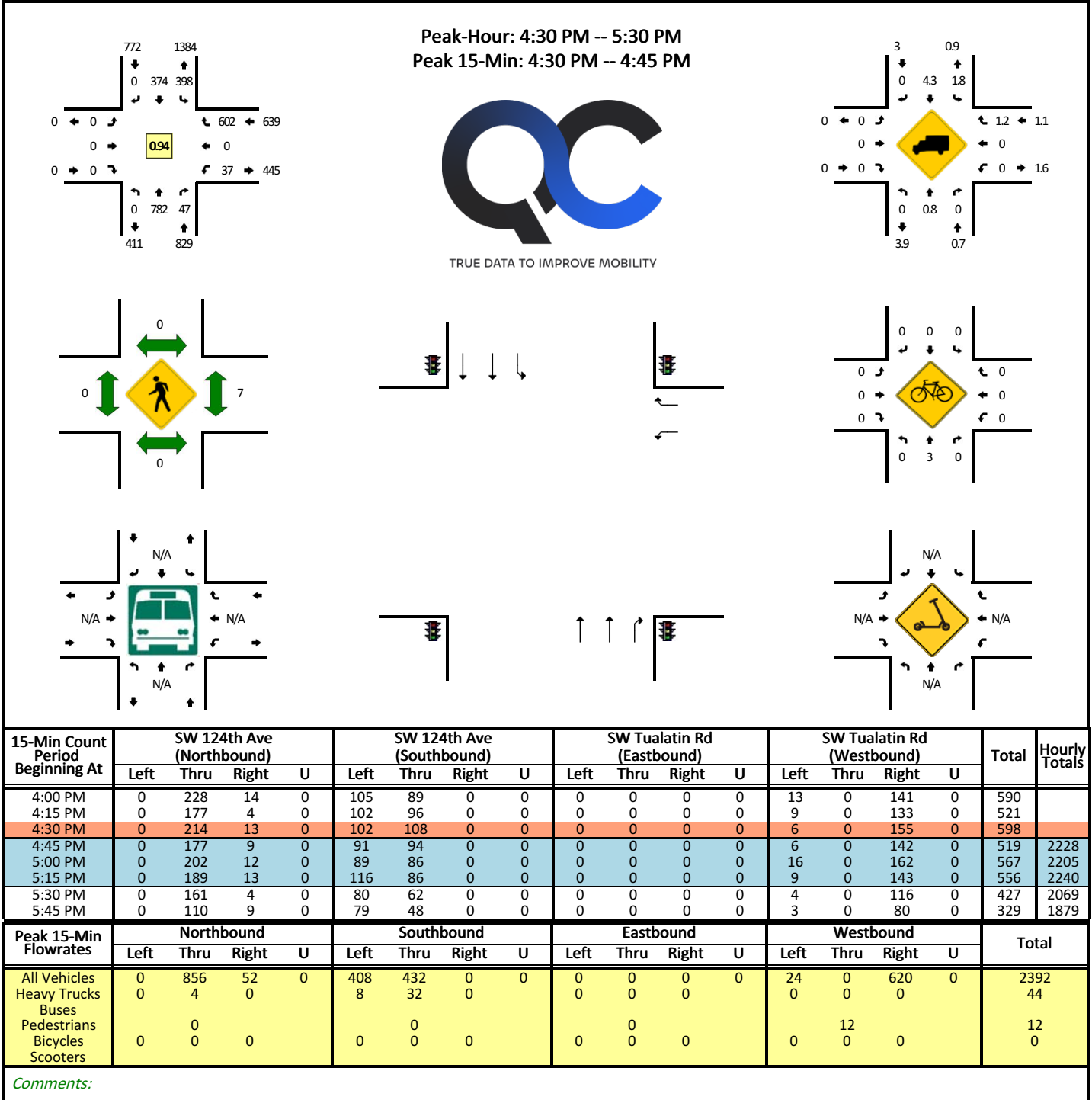
SOURCE: Quality Counts, LLC (<http://www.qualitycounts.net>) 1-877-580-2212

Type of peak hour being reported: Intersection Peak

Method for determining peak hour: Total Entering Volume

**LOCATION:** SW 124th Ave -- SW Tualatin Rd  
**CITY/STATE:** Tualatin, OR

**QC JOB #:** 17042804  
**DATE:** Tue, May 13 2025



Report generated on 6/2/2025 1:12 PM

SOURCE: Quality Counts, LLC (<http://www.qualitycounts.net>) 1-877-580-2212

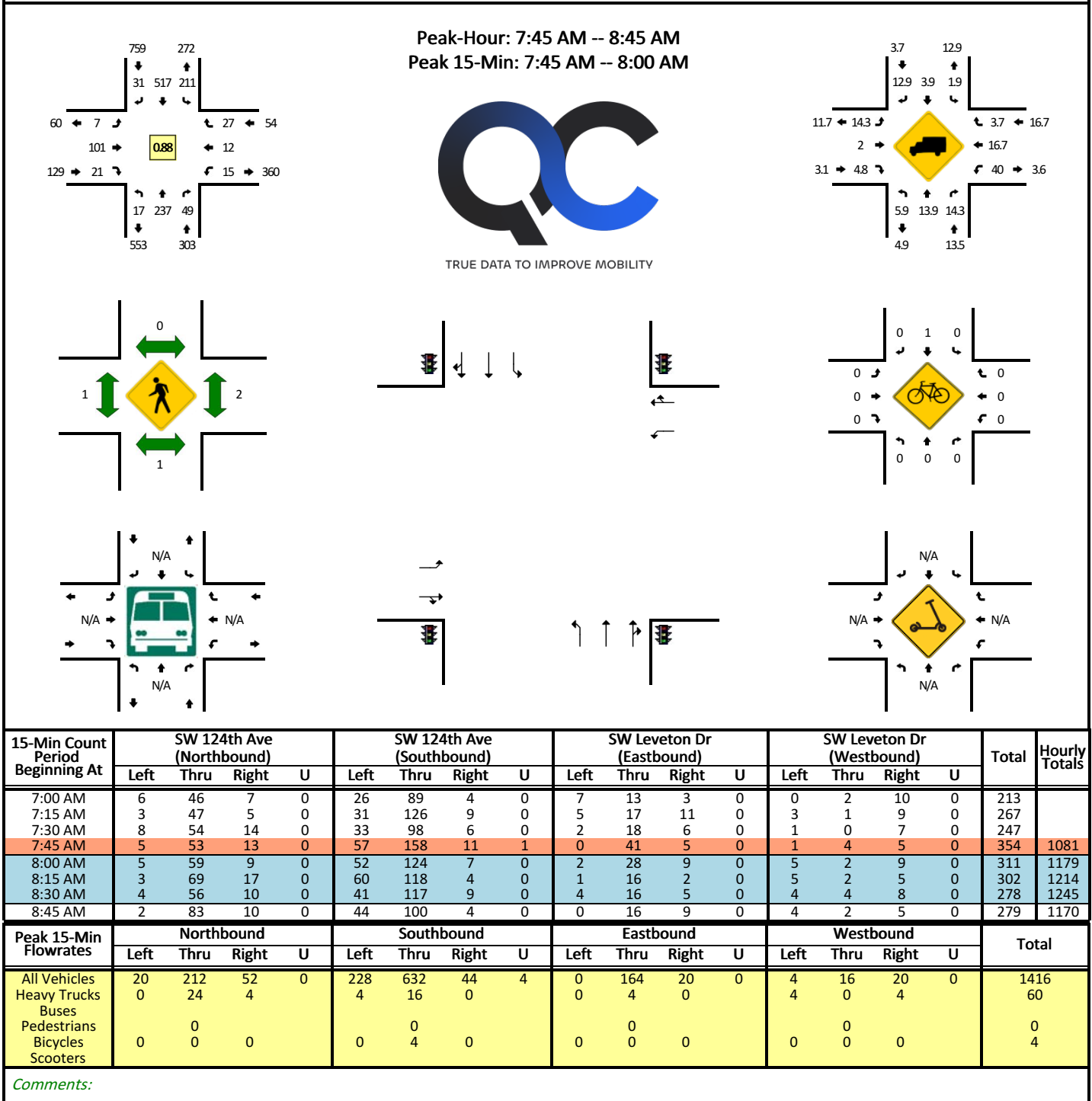


Type of peak hour being reported: Intersection Peak

Method for determining peak hour: Total Entering Volume

**LOCATION:** SW 124th Ave -- SW Leveton Dr  
**CITY/STATE:** Tualatin, OR

**QC JOB #:** 17042805  
**DATE:** Tue, May 13 2025



Report generated on 6/2/2025 1:12 PM

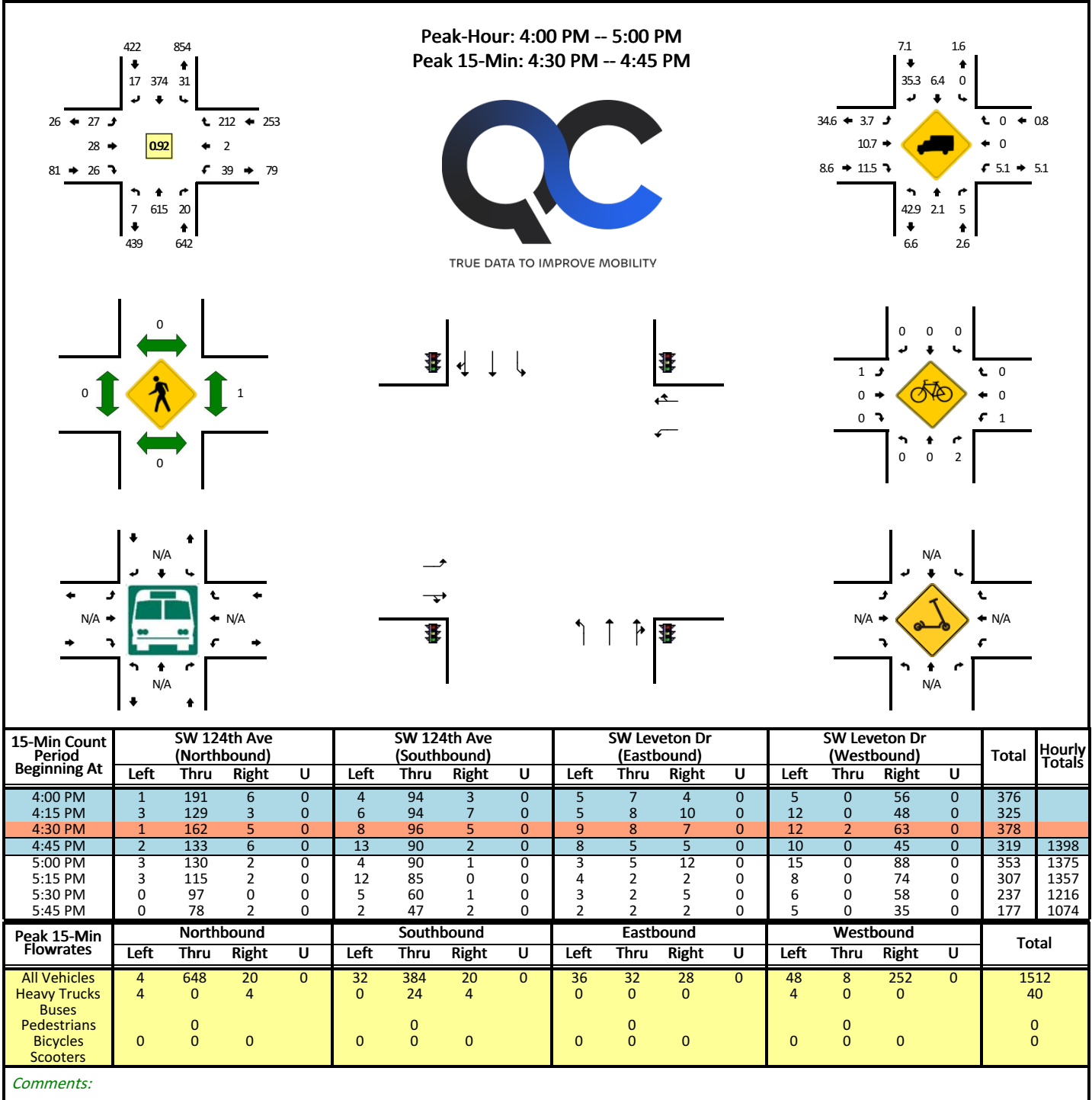
SOURCE: Quality Counts, LLC (<http://www.qualitycounts.net>) 1-877-580-2212

Type of peak hour being reported: Intersection Peak

Method for determining peak hour: Total Entering Volume

**LOCATION:** SW 124th Ave -- SW Leveton Dr  
**CITY/STATE:** Tualatin, OR

**QC JOB #:** 17042806  
**DATE:** Tue, May 13 2025



Report generated on 6/2/2025 1:12 PM

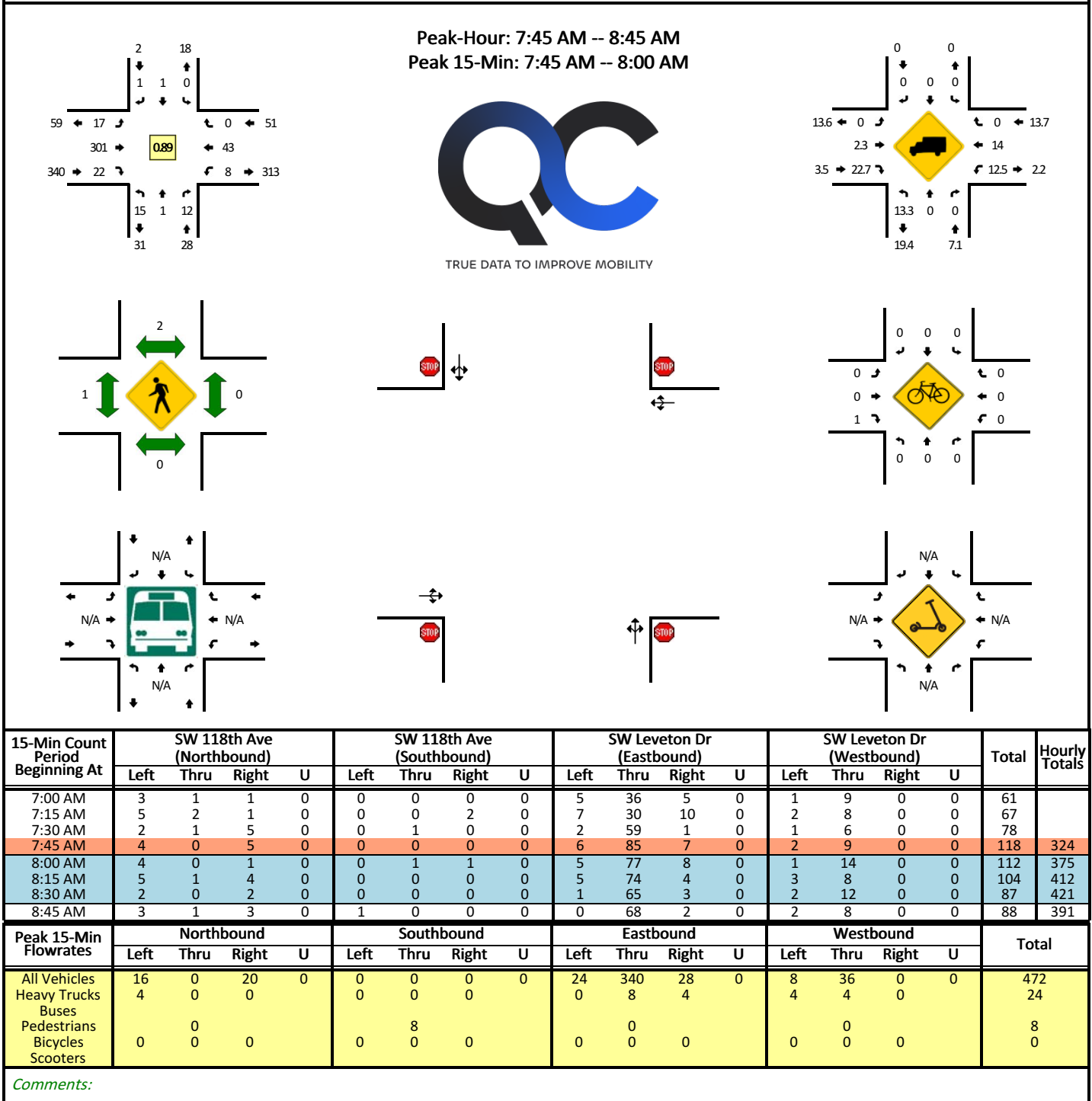
SOURCE: Quality Counts, LLC (<http://www.qualitycounts.net>) 1-877-580-2212

Type of peak hour being reported: Intersection Peak

Method for determining peak hour: Total Entering Volume

**LOCATION:** SW 118th Ave -- SW Leveton Dr  
**CITY/STATE:** Tualatin, OR

**QC JOB #:** 17042807  
**DATE:** Tue, May 13 2025



Report generated on 6/2/2025 1:12 PM

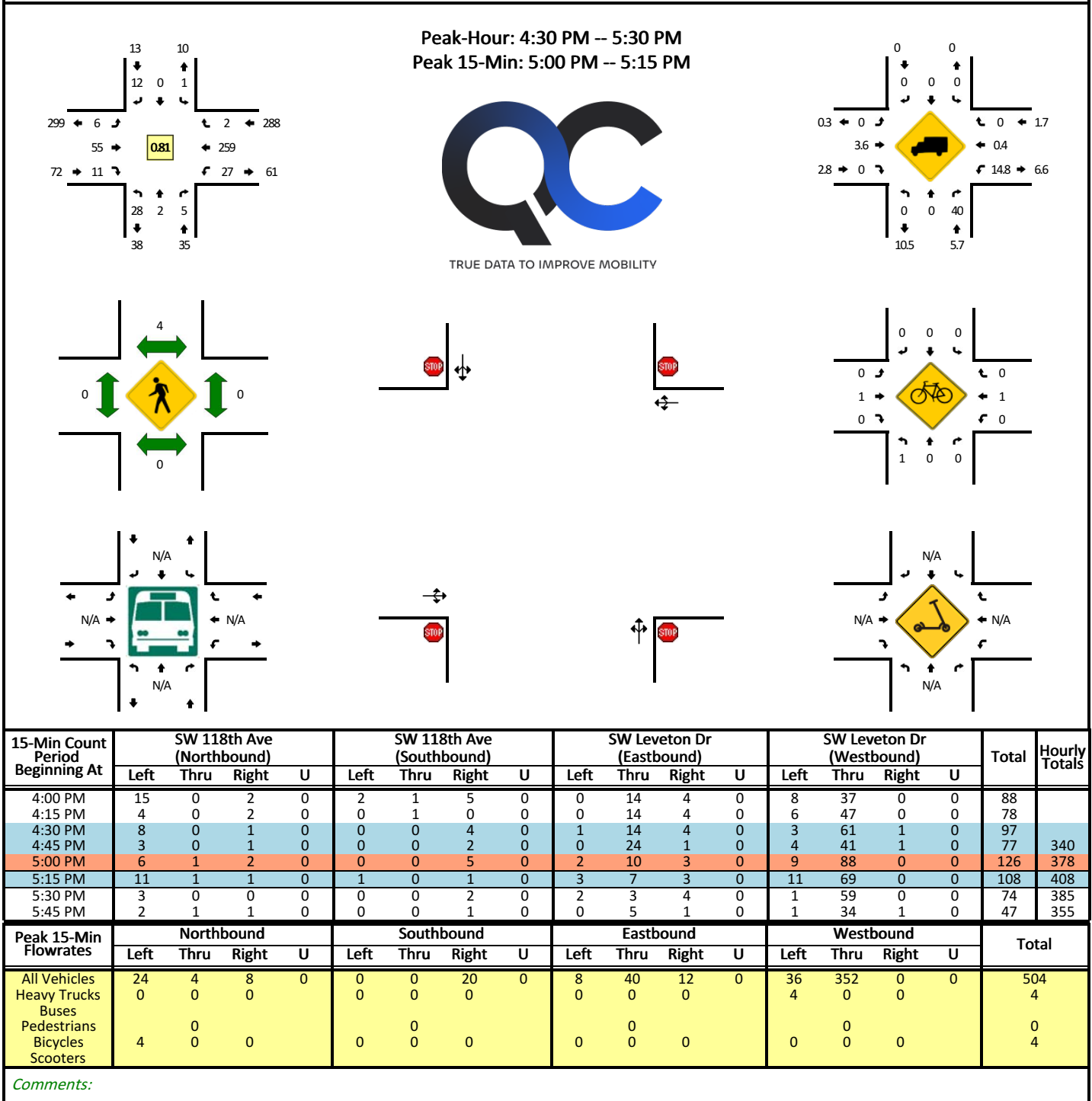
SOURCE: Quality Counts, LLC (<http://www.qualitycounts.net>) 1-877-580-2212

Type of peak hour being reported: Intersection Peak

Method for determining peak hour: Total Entering Volume

**LOCATION:** SW 118th Ave -- SW Leveton Dr  
**CITY/STATE:** Tualatin, OR

**QC JOB #:** 17042808  
**DATE:** Tue, May 13 2025



Report generated on 6/2/2025 1:12 PM

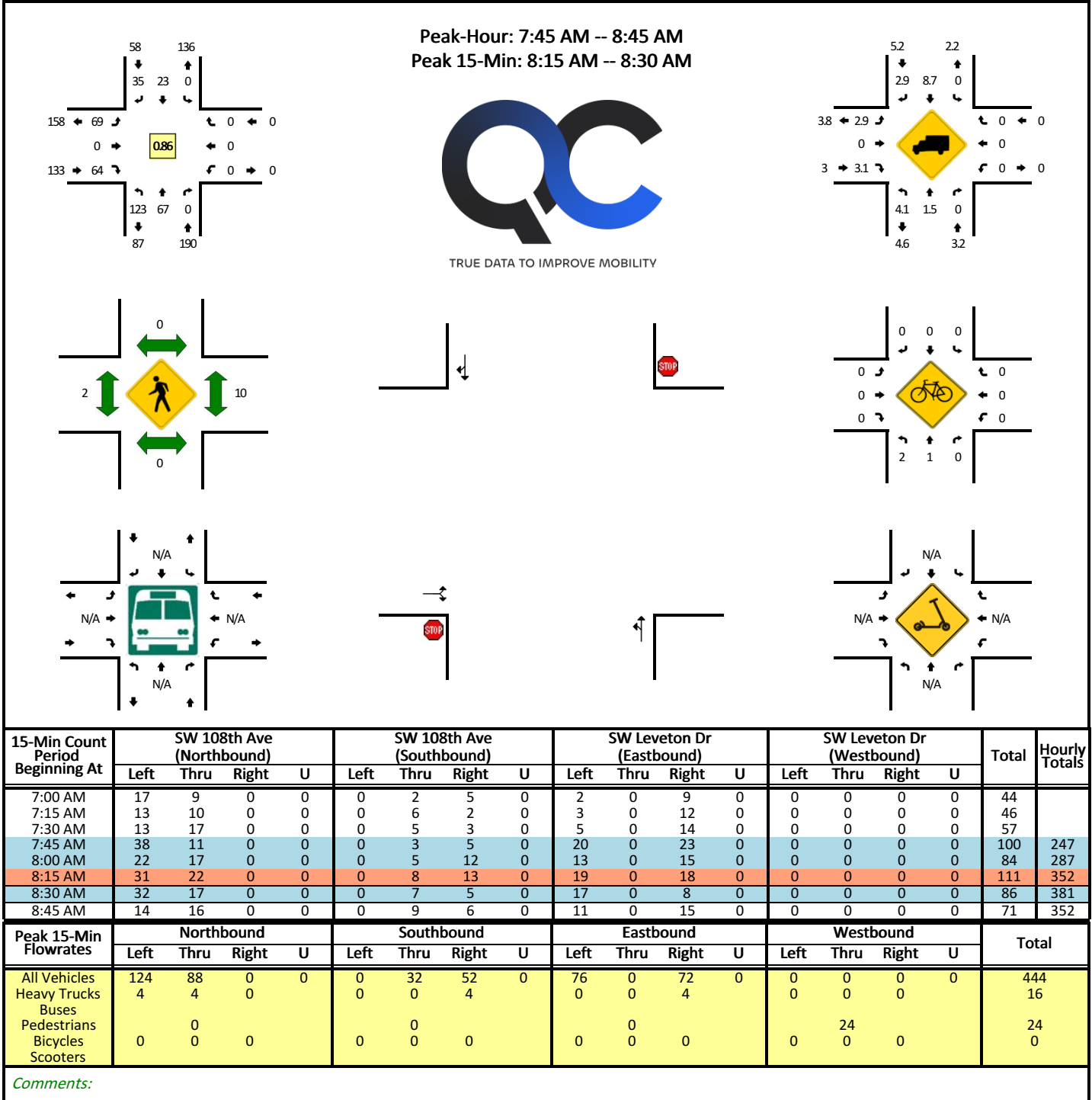
SOURCE: Quality Counts, LLC (<http://www.qualitycounts.net>) 1-877-580-2212

Type of peak hour being reported: Intersection Peak

Method for determining peak hour: Total Entering Volume

**LOCATION:** SW 108th Ave -- SW Leveton Dr  
**CITY/STATE:** Tualatin, OR

**QC JOB #:** 17042815  
**DATE:** Tue, May 13 2025



Report generated on 6/2/2025 1:12 PM

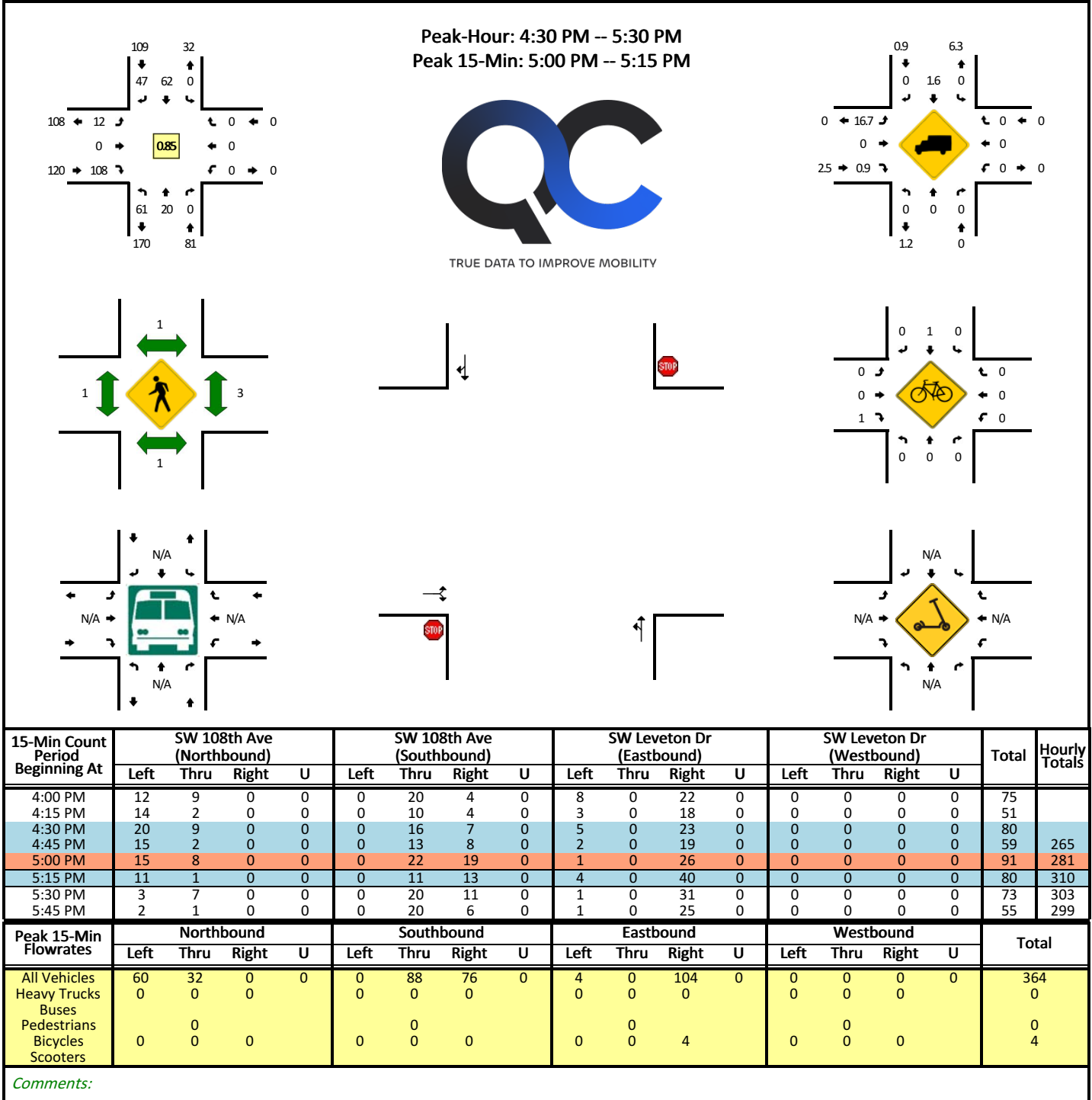
SOURCE: Quality Counts, LLC (<http://www.qualitycounts.net>) 1-877-580-2212

Type of peak hour being reported: Intersection Peak

Method for determining peak hour: Total Entering Volume

**LOCATION:** SW 108th Ave -- SW Leveton Dr  
**CITY/STATE:** Tualatin, OR

**QC JOB #:** 17042816  
**DATE:** Tue, May 13 2025



Report generated on 6/2/2025 1:12 PM

SOURCE: Quality Counts, LLC (<http://www.qualitycounts.net>) 1-877-580-2212

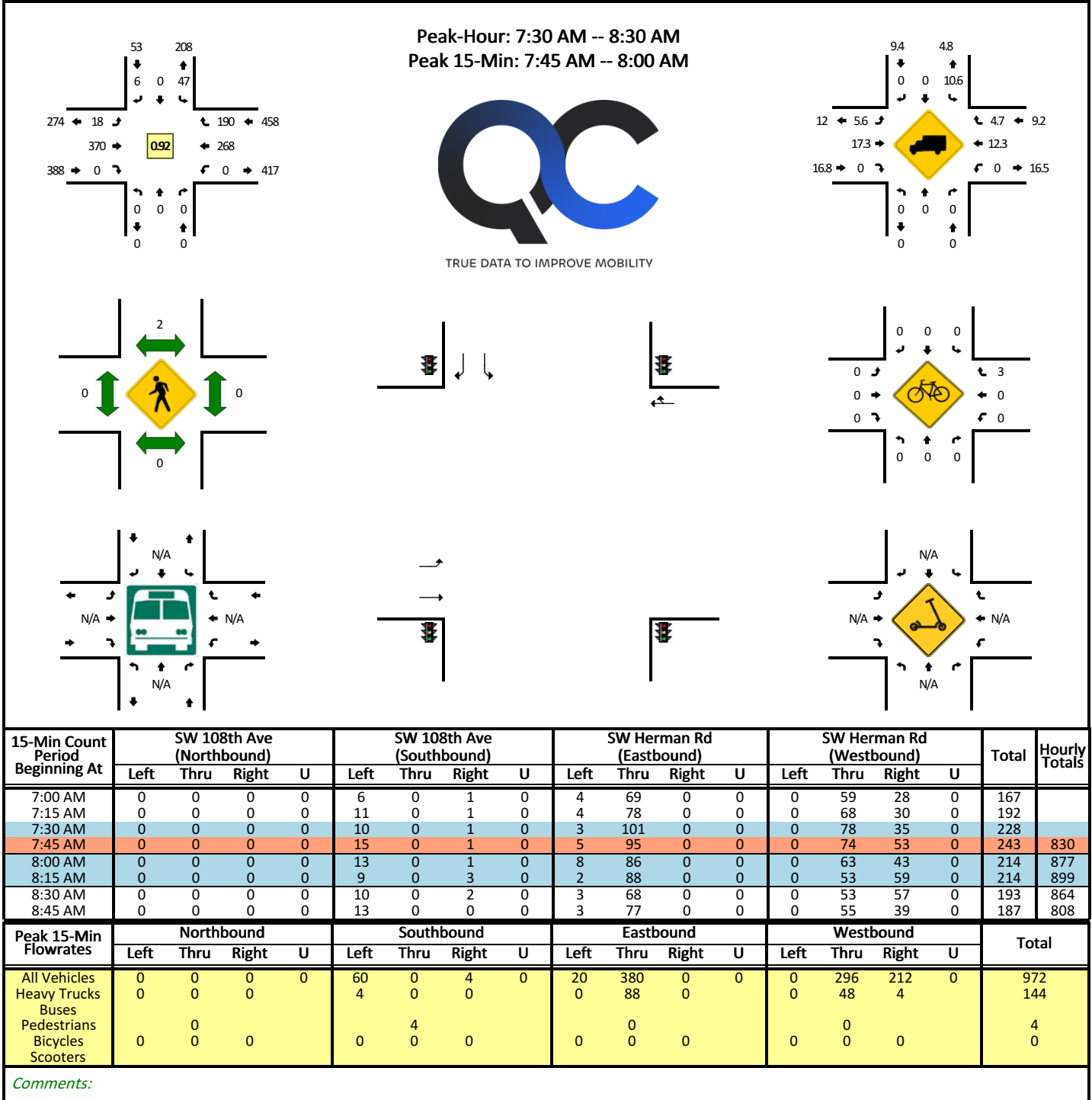


Type of peak hour being reported: Intersection Peak

Method for determining peak hour: Total Entering Volume

**LOCATION:** SW 108th Ave -- SW Herman Rd  
**CITY/STATE:** Tualatin, OR

**QC JOB #:** 17042817  
**DATE:** Tue, May 13 2025



Report generated on 6/2/2025 1:12 PM

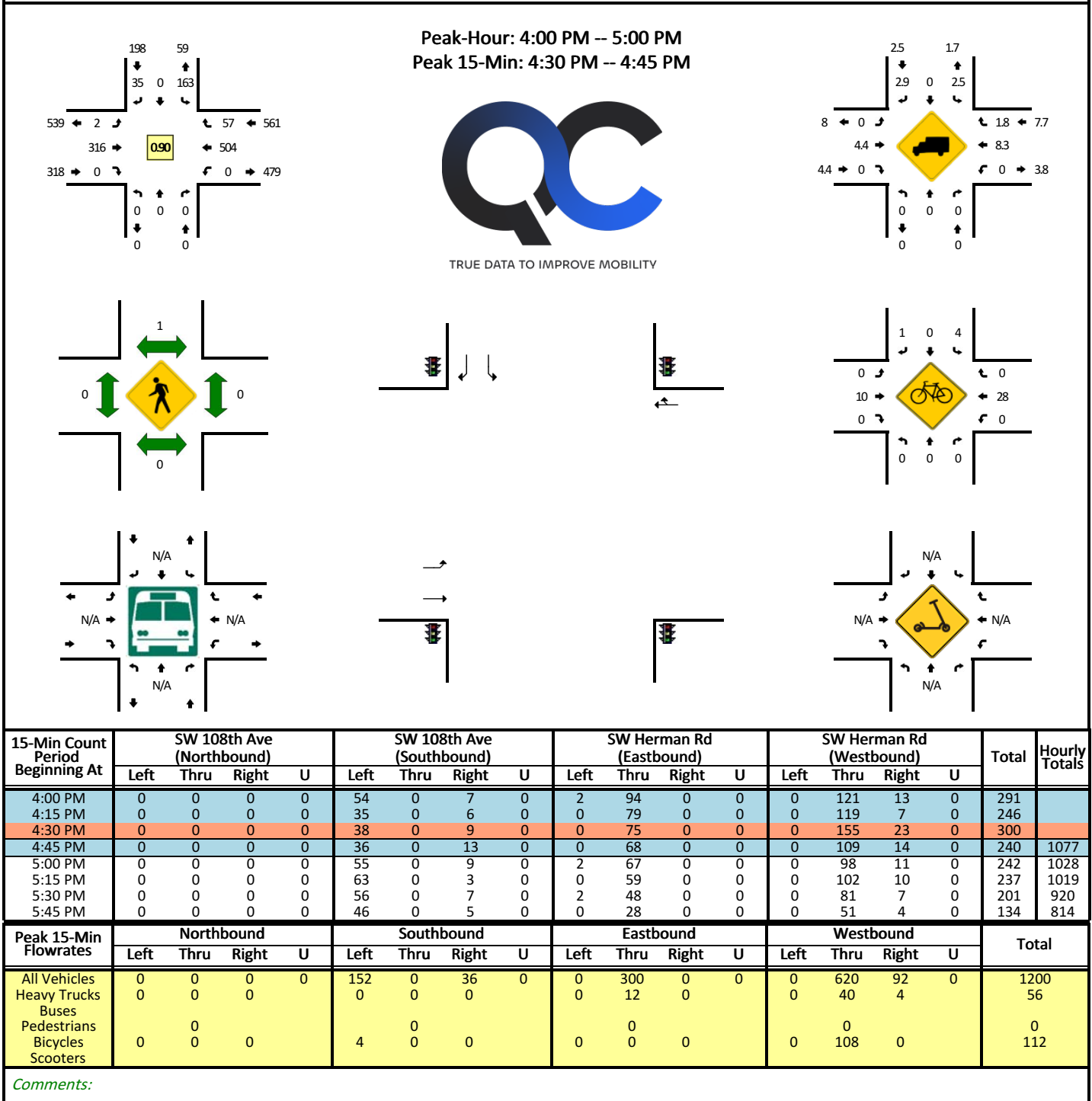
SOURCE: Quality Counts, LLC (<http://www.qualitycounts.net>) 1-877-580-2212

Type of peak hour being reported: Intersection Peak

Method for determining peak hour: Total Entering Volume

**LOCATION:** SW 108th Ave -- SW Herman Rd  
**CITY/STATE:** Tualatin, OR

**QC JOB #:** 17042818  
**DATE:** Tue, May 13 2025



Report generated on 6/2/2025 1:12 PM

SOURCE: Quality Counts, LLC (<http://www.qualitycounts.net>) 1-877-580-2212

Type of peak hour being reported: Intersection Peak

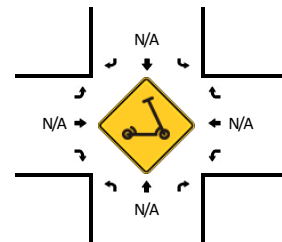
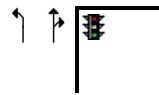
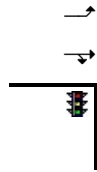
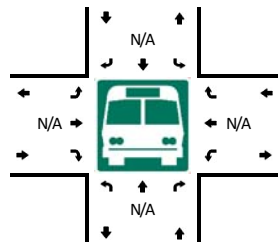
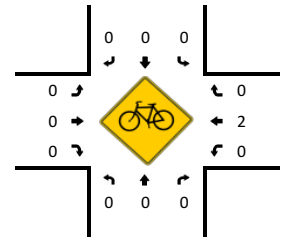
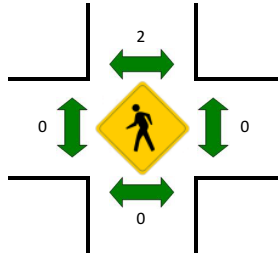
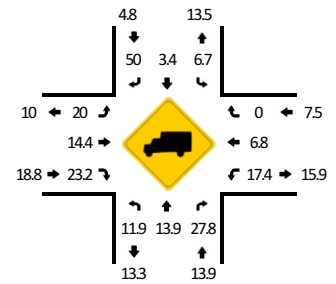
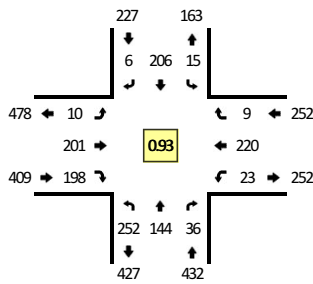
Method for determining peak hour: Total Entering Volume

**LOCATION:** Teton Ave -- SW Herman Rd**QC JOB #:** 17042819**CITY/STATE:** Tualatin, OR**DATE:** Tue, May 13 2025

Peak-Hour: 7:30 AM -- 8:30 AM  
Peak 15-Min: 7:45 AM -- 8:00 AM



TRUE DATA TO IMPROVE MOBILITY



15-Min Count Period Beginning At	Teton Ave (Northbound)				Teton Ave (Southbound)				SW Herman Rd (Eastbound)				SW Herman Rd (Westbound)				Total	Hourly Totals
	Left	Thru	Right	U	Left	Thru	Right	U	Left	Thru	Right	U	Left	Thru	Right	U		
7:00 AM	40	13	2	0	1	17	1	0	1	41	31	0	3	41	0	0	191	
7:15 AM	47	10	5	0	2	33	1	0	2	42	49	0	6	55	1	0	253	
7:30 AM	64	18	8	0	5	41	0	0	1	42	56	0	6	53	3	0	297	
7:45 AM	69	28	6	0	2	47	4	0	4	62	52	0	9	66	4	0	353	1094
8:00 AM	54	52	9	0	5	52	1	0	1	50	47	0	4	54	1	0	330	1233
8:15 AM	65	46	13	0	3	66	1	0	4	47	43	0	4	47	1	0	340	1320
8:30 AM	61	20	4	0	2	57	1	0	0	58	31	0	4	51	2	0	291	1314
8:45 AM	45	28	9	0	4	32	3	0	1	46	42	0	3	54	2	0	269	1230
Peak 15-Min Flowrates	Northbound				Southbound				Eastbound				Westbound				Total	
	Left	Thru	Right	U	Left	Thru	Right	U	Left	Thru	Right	U	Left	Thru	Right	U		
All Vehicles	276	112	24	0	8	188	16	0	16	248	208	0	36	264	16	0	1412	
Heavy Trucks	36	8	8		0	4	4		4	64	56		8	16	0		208	
Buses																		
Pedestrians		0				4				0				0			4	
Bicycles	0	0	0		0	0	0		0	0	0		0	0	0		0	
Scooters																		

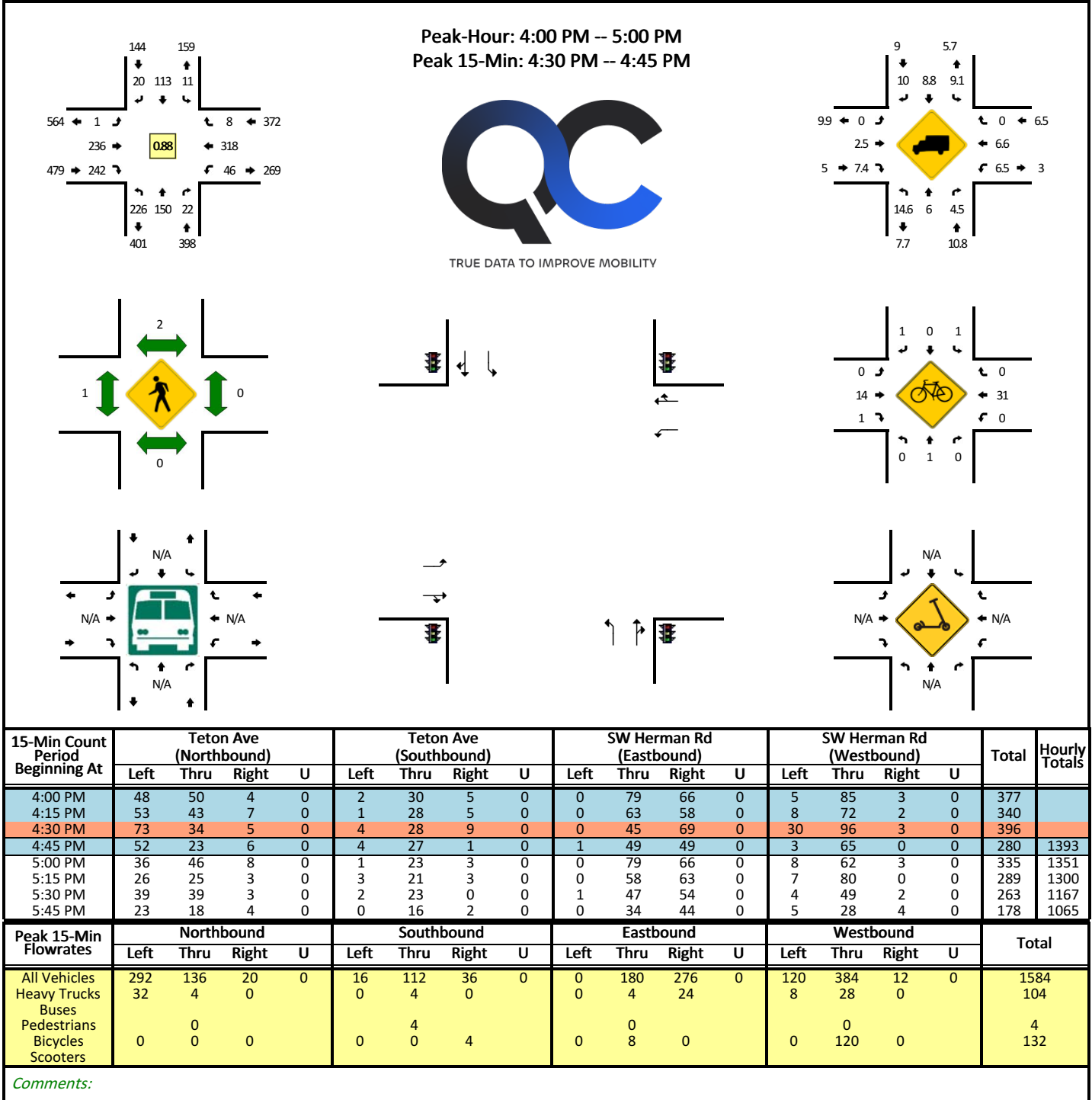
**Comments:**

Report generated on 6/2/2025 1:12 PM

SOURCE: Quality Counts, LLC (<http://www.qualitycounts.net>) 1-877-580-2212

Type of peak hour being reported: Intersection Peak

Method for determining peak hour: Total Entering Volume

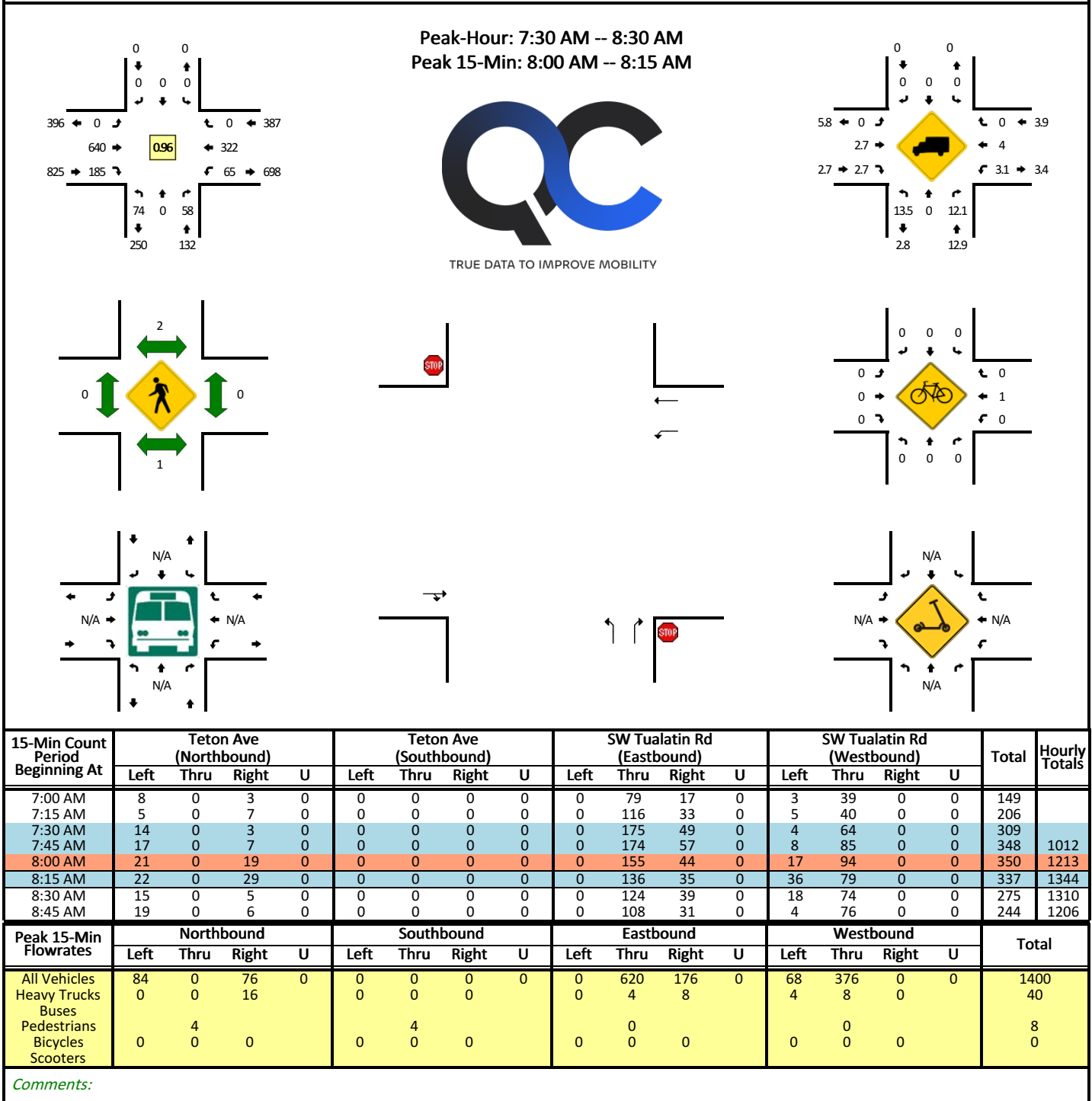
**LOCATION:** Teton Ave -- SW Herman Rd**QC JOB #:** 17042820**CITY/STATE:** Tualatin, OR**DATE:** Tue, May 13 2025

Report generated on 6/2/2025 1:12 PM

SOURCE: Quality Counts, LLC (<http://www.qualitycounts.net>) 1-877-580-2212

Type of peak hour being reported: Intersection Peak

Method for determining peak hour: Total Entering Volume

**LOCATION:** Teton Ave -- SW Tualatin Rd**QC JOB #:** 17042821**CITY/STATE:** Tualatin, OR**DATE:** Tue, May 13 2025

Report generated on 6/2/2025 1:12 PM

SOURCE: Quality Counts, LLC (<http://www.qualitycounts.net>) 1-877-580-2212

Type of peak hour being reported: Intersection Peak

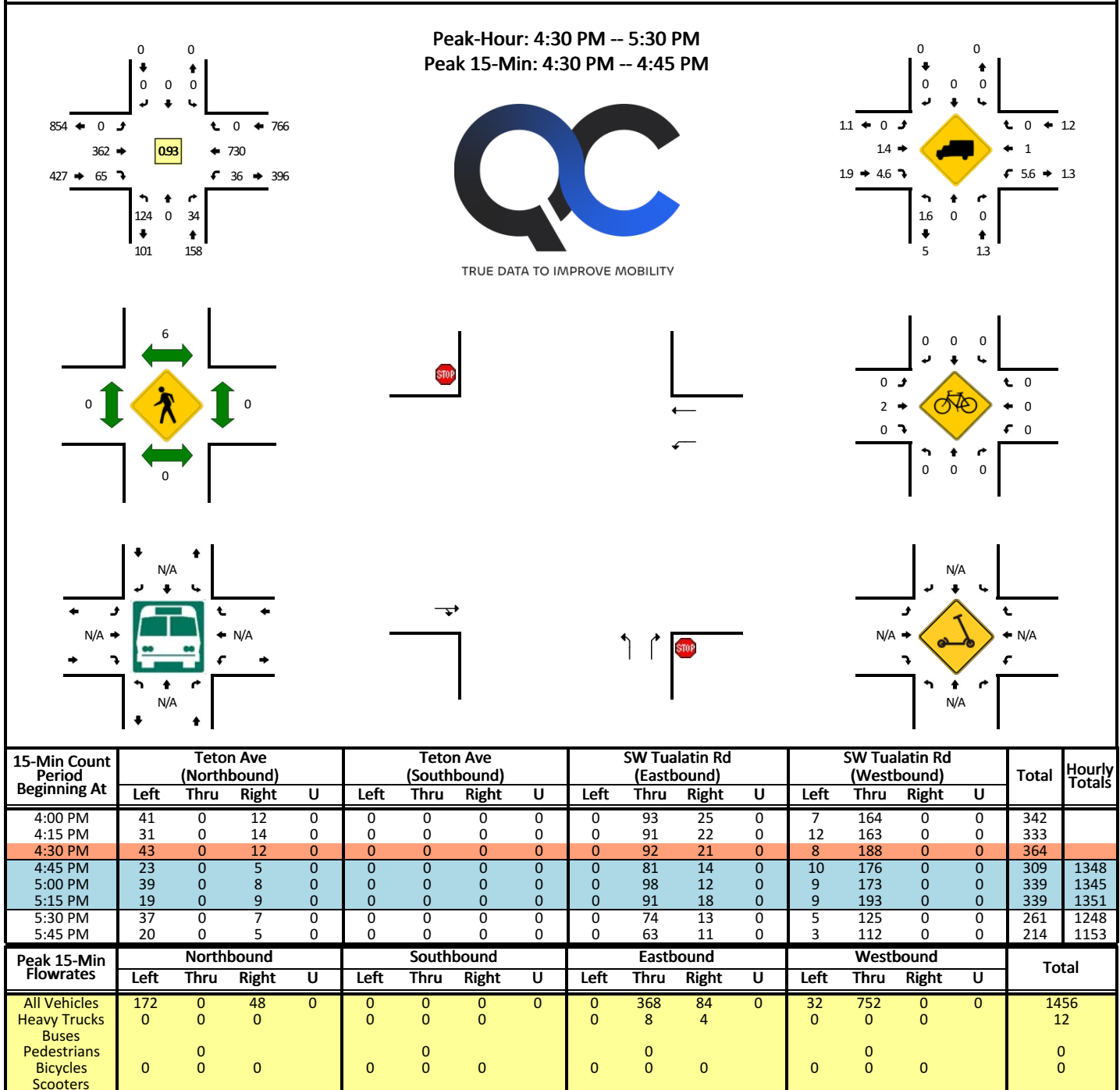
### Method for determining peak hour: Total Entering Volume

**LOCATION:** Teton Ave -- SW Tualatin Rd

QC JOB #: 17042822

**CITY/STATE:** Tualatin, OR

**DATE:** Tue, May 13 2025



*Comments:*

Report generated on 6/2/2025 1:12 PM

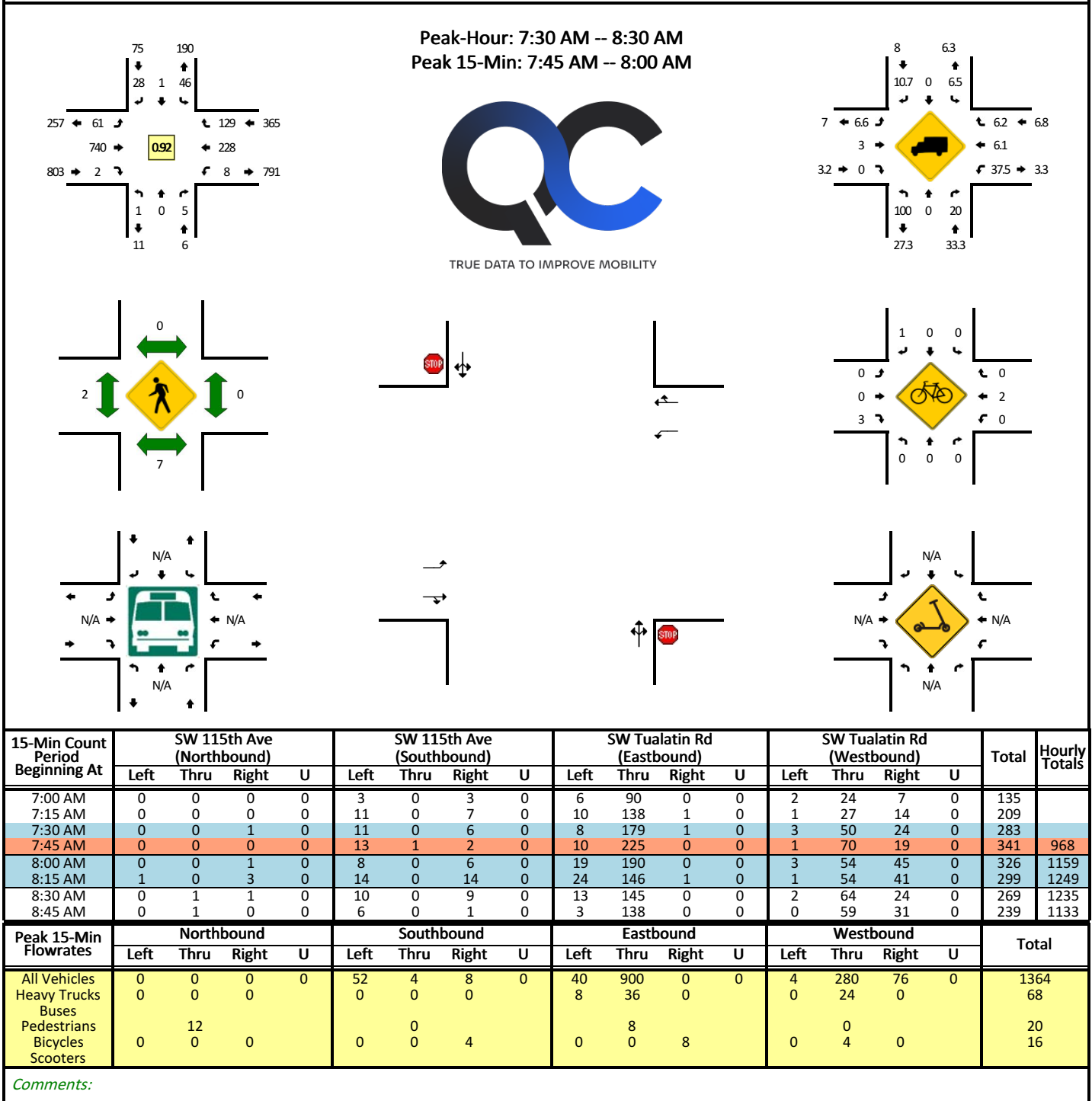
SOURCE: Quality Counts, LLC (<http://www.qualitycounts.net>) 1-877-580-2212

Type of peak hour being reported: Intersection Peak

Method for determining peak hour: Total Entering Volume

**LOCATION:** SW 115th Ave -- SW Tualatin Rd  
**CITY/STATE:** Tualatin, OR

**QC JOB #:** 17042831  
**DATE:** Tue, May 13 2025



Report generated on 6/2/2025 1:12 PM

SOURCE: Quality Counts, LLC (<http://www.qualitycounts.net>) 1-877-580-2212

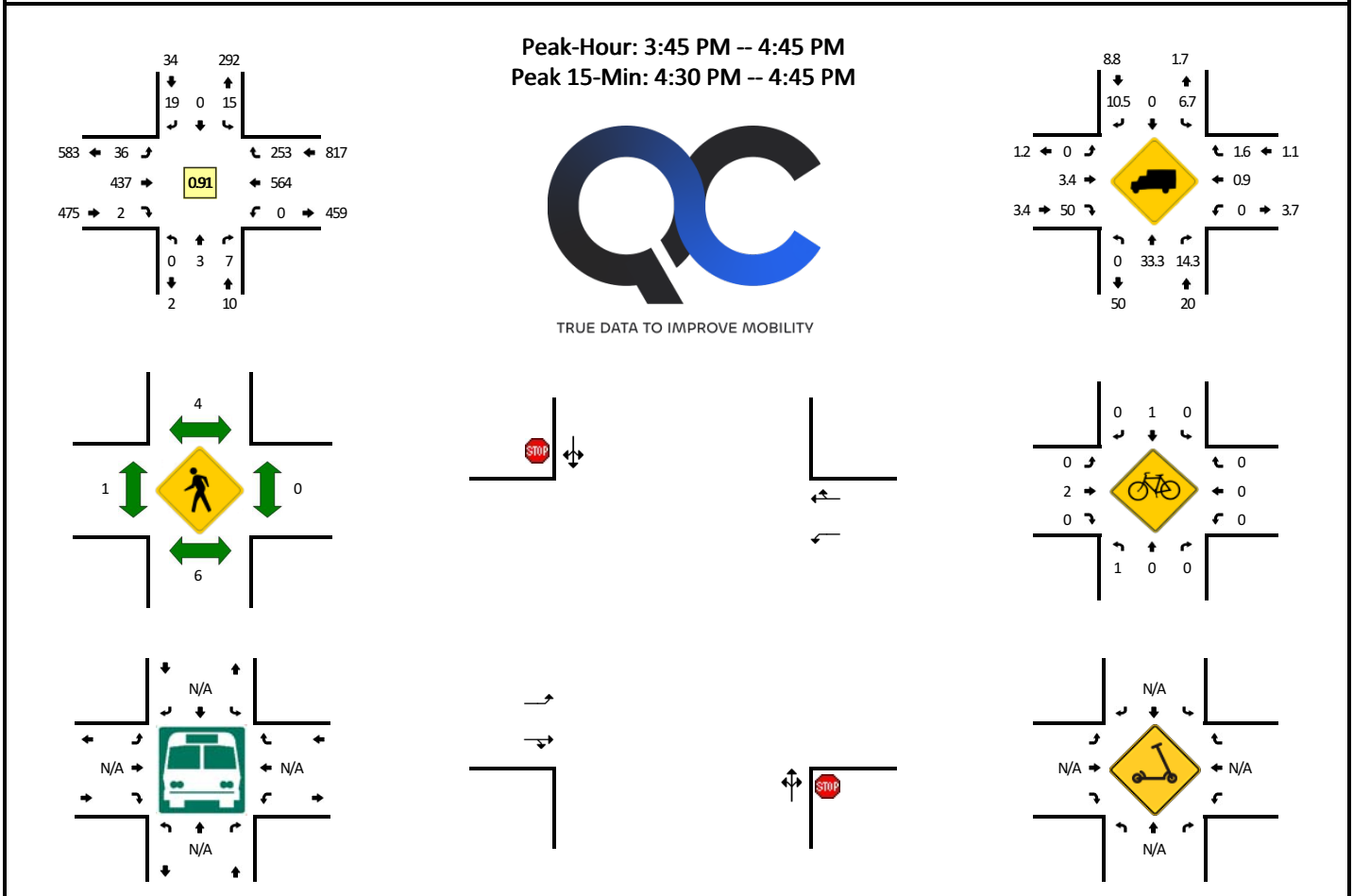


Type of peak hour being reported: Intersection Peak

Method for determining peak hour: Total Entering Volume

**LOCATION:** SW 115th Ave -- SW Tualatin Rd  
**CITY/STATE:** Tualatin, OR

**QC JOB #:** 17042832  
**DATE:** Tue, May 13 2025



15-Min Count Period Beginning At	SW 115th Ave (Northbound)				SW 115th Ave (Southbound)				SW Tualatin Rd (Eastbound)				SW Tualatin Rd (Westbound)				Total	Hourly Totals
	Left	Thru	Right	U	Left	Thru	Right	U	Left	Thru	Right	U	Left	Thru	Right	U		
3:00 PM	2	1	1	0	9	0	5	0	17	93	0	0	0	104	54	0	286	
3:15 PM	0	1	0	0	11	0	18	0	6	85	1	0	0	103	43	0	268	
3:30 PM	1	1	1	0	7	0	8	0	6	89	0	0	0	112	57	0	282	
3:45 PM	0	1	2	0	6	0	6	0	9	124	2	0	0	122	60	0	332	1168
4:00 PM	0	1	4	0	2	0	7	0	6	100	0	0	0	130	76	0	326	1208
4:15 PM	0	1	0	0	3	0	3	0	6	105	0	0	0	135	58	0	311	1251
4:30 PM	0	0	1	0	4	0	3	0	15	108	0	0	0	177	59	0	367	1336
4:45 PM	0	2	1	0	7	0	3	0	14	77	0	0	2	144	48	0	298	1302
5:00 PM	0	1	1	0	8	0	5	0	14	103	0	0	0	125	77	0	334	1310
5:15 PM	0	1	1	0	8	0	6	0	9	94	0	0	1	124	74	0	318	1317
5:30 PM	1	0	3	0	5	0	3	0	9	77	2	0	2	99	53	0	254	1204
5:45 PM	0	0	1	0	1	0	3	0	4	68	1	0	0	75	56	0	209	1115
Peak 15-Min Flowrates	Northbound				Southbound				Eastbound				Westbound				Total	
	Left	Thru	Right	U	Left	Thru	Right	U	Left	Thru	Right	U	Left	Thru	Right	U		
All Vehicles	0	0	4	0	16	0	12	0	60	432	0	0	0	708	236	0	1468	
Heavy Trucks	0	0	0	0	0	0	0	0	0	8	0	0	0	0	0	0	8	
Buses																		
Pedestrians		4				0				0				0			4	
Bicycles	0	0	0		0	0	0		0	4	0		0	0	0		4	
Scoters																		

**Comments:**

Report generated on 6/2/2025 1:12 PM

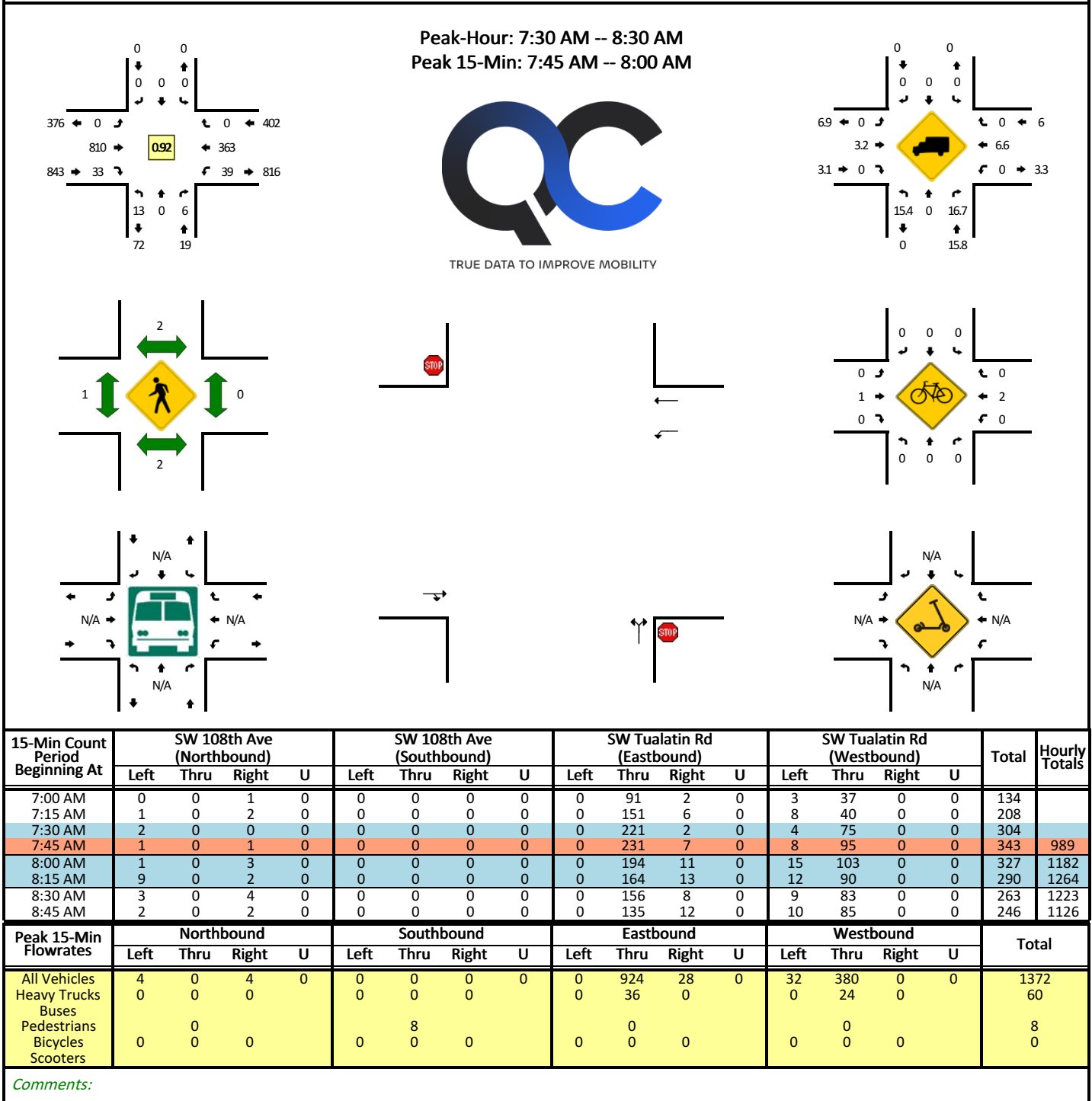
SOURCE: Quality Counts, LLC (<http://www.qualitycounts.net>) 1-877-580-2212

Type of peak hour being reported: Intersection Peak

Method for determining peak hour: Total Entering Volume

**LOCATION:** SW 108th Ave -- SW Tualatin Rd  
**CITY/STATE:** Tualatin, OR

**QC JOB #:** 17042833  
**DATE:** Tue, May 13 2025

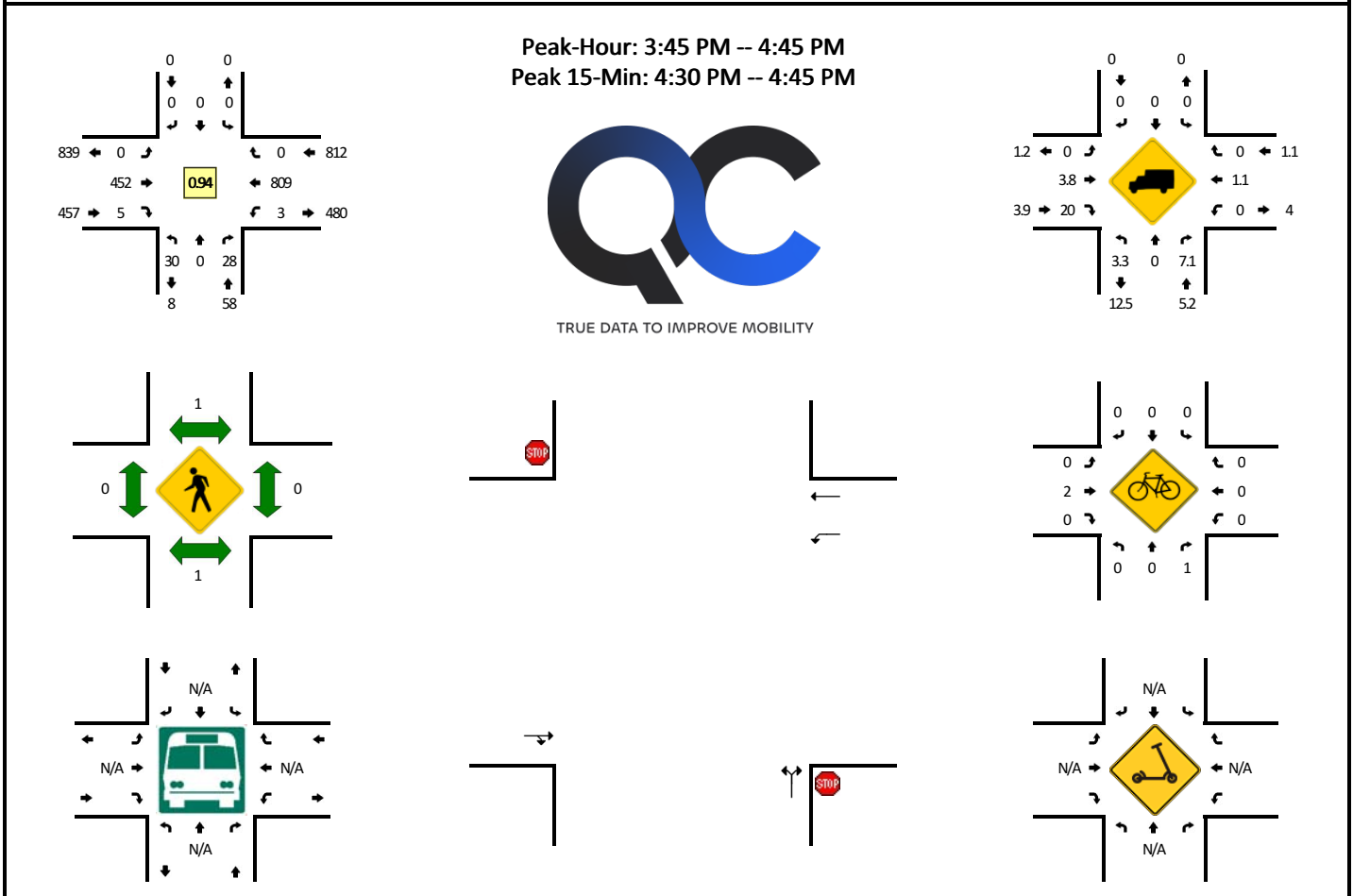


Report generated on 6/2/2025 1:12 PM

SOURCE: Quality Counts, LLC (<http://www.qualitycounts.net>) 1-877-580-2212

Type of peak hour being reported: Intersection Peak

Method for determining peak hour: Total Entering Volume

**LOCATION:** SW 108th Ave -- SW Tualatin Rd**QC JOB #:** 17042834**CITY/STATE:** Tualatin, OR**DATE:** Tue, May 13 2025

15-Min Count Period Beginning At	SW 108th Ave (Northbound)				SW 108th Ave (Southbound)				SW Tualatin Rd (Eastbound)				SW Tualatin Rd (Westbound)				Total	Hourly Totals
	Left	Thru	Right	U	Left	Thru	Right	U	Left	Thru	Right	U	Left	Thru	Right	U		
3:00 PM	9	0	6	0	0	0	0	0	0	100	2	0	1	158	0	0	276	
3:15 PM	2	0	3	0	0	0	0	0	0	100	2	0	2	148	0	0	257	
3:30 PM	7	0	4	0	0	0	0	0	0	99	0	0	0	171	0	0	281	
3:45 PM	5	0	11	0	0	0	0	0	0	129	2	0	0	188	0	0	335	1149
4:00 PM	7	0	6	0	0	0	0	0	0	109	2	0	0	202	0	0	326	1199
4:15 PM	6	0	3	0	0	0	0	0	0	107	1	0	2	194	0	0	313	1255
4:30 PM	12	0	8	0	0	0	0	0	0	107	0	0	1	225	0	0	353	1327
4:45 PM	5	0	4	0	0	0	0	0	0	89	1	0	4	200	0	0	303	1295
5:00 PM	6	0	7	0	0	0	0	0	0	101	3	0	0	209	0	0	326	1295
5:15 PM	5	0	10	0	0	0	0	0	0	100	0	0	1	204	0	0	320	1302
5:30 PM	6	0	6	0	0	0	0	0	0	80	2	0	1	161	0	0	256	1205
5:45 PM	2	0	3	0	0	0	0	0	0	75	0	0	2	132	0	0	214	1116
Peak 15-Min Flowrates	Northbound				Southbound				Eastbound				Westbound				Total	
	Left	Thru	Right	U	Left	Thru	Right	U	Left	Thru	Right	U	Left	Thru	Right	U		
All Vehicles	48	0	32	0	0	0	0	0	0	428	0	0	4	900	0	0	1412	
Heavy Trucks	0	0	4	0	0	0	0	0	0	8	0	0	0	0	0	0	12	
Buses																		
Pedestrians	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Bicycles	0	0	0	0	0	0	0	0	0	4	0	0	0	0	0	0	4	
Scooters																		

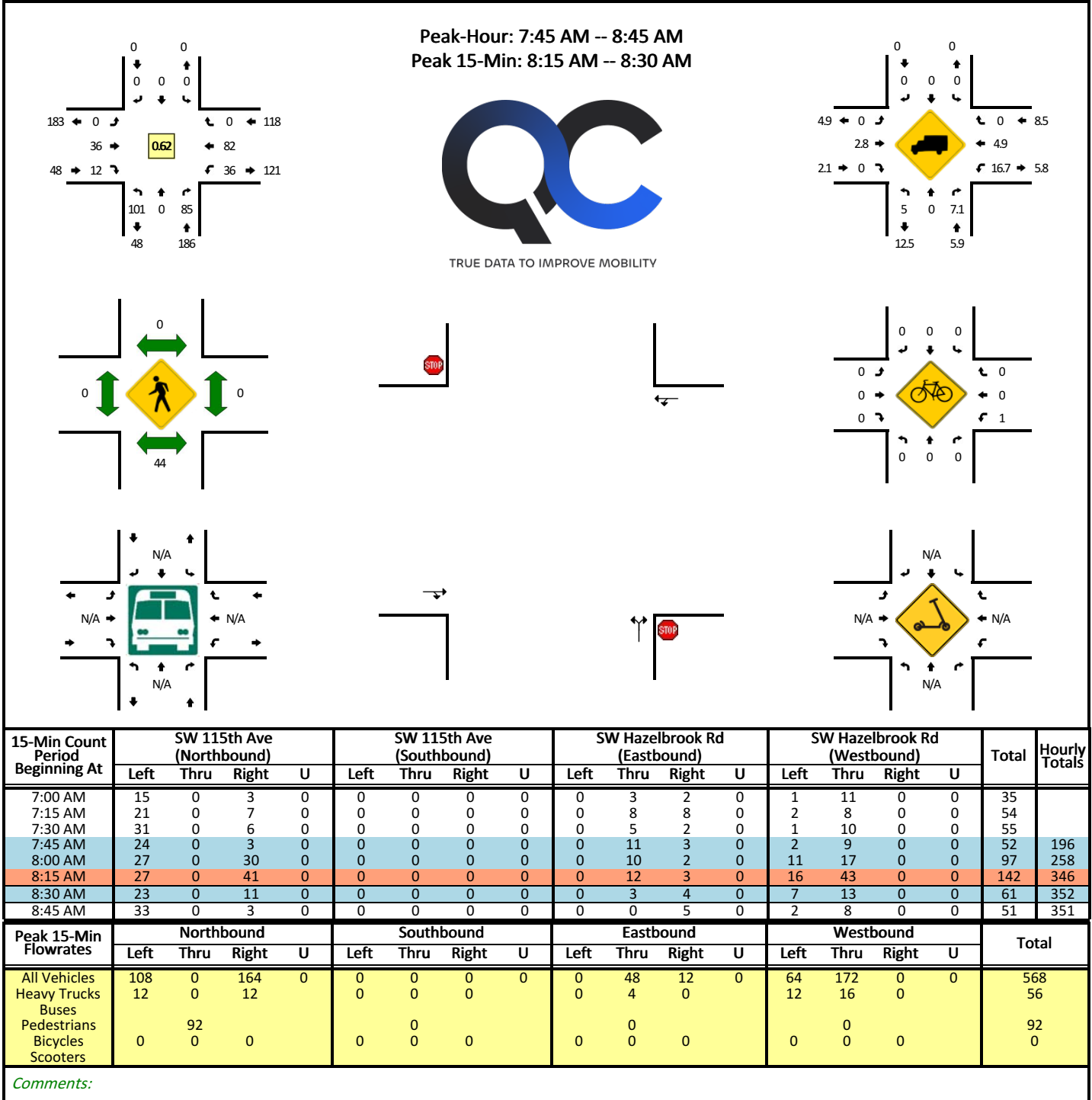
**Comments:**

Report generated on 6/2/2025 1:12 PM

SOURCE: Quality Counts, LLC (<http://www.qualitycounts.net>) 1-877-580-2212

Type of peak hour being reported: Intersection Peak

Method for determining peak hour: Total Entering Volume

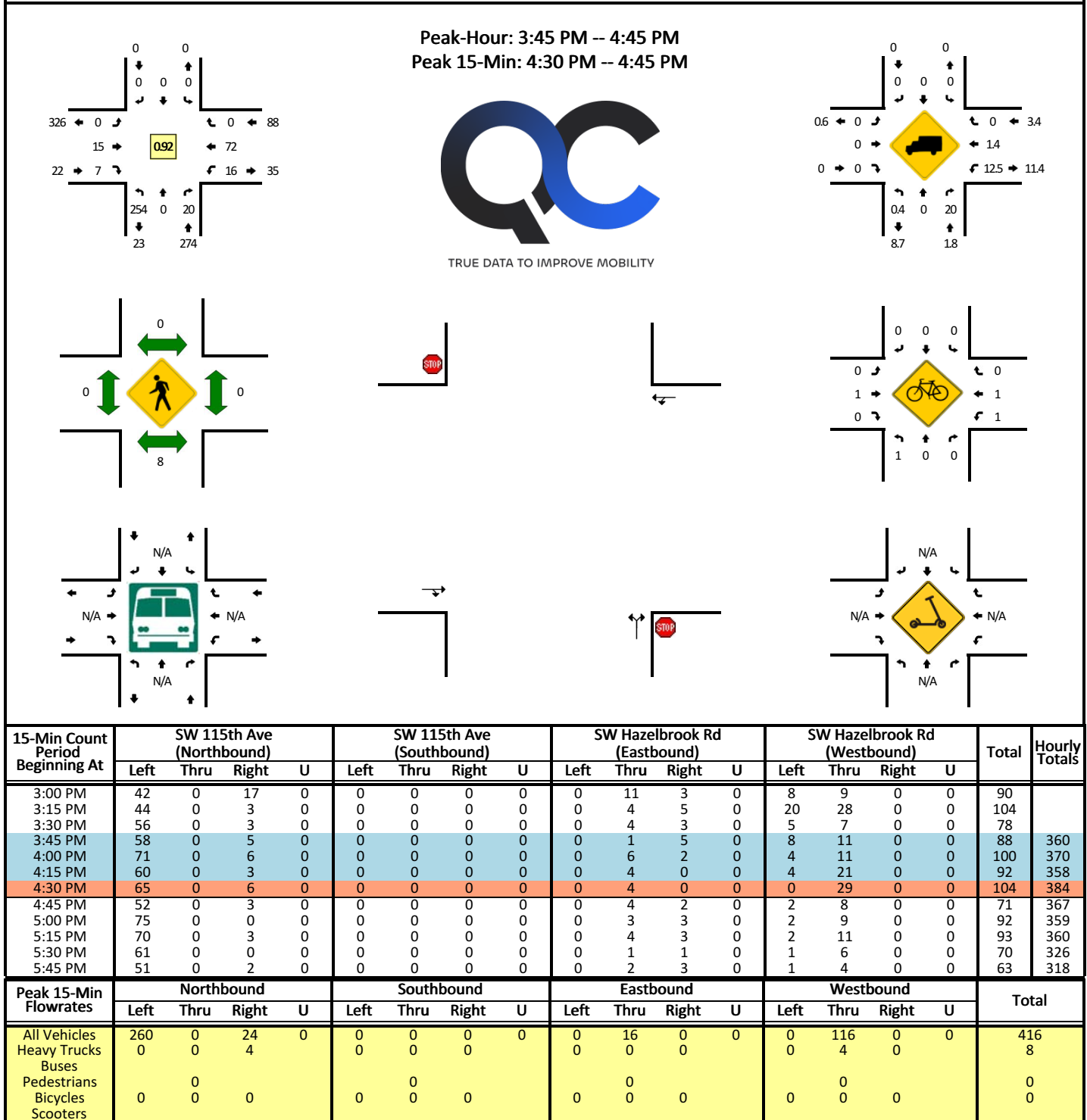
**LOCATION:** SW 115th Ave -- SW Hazelbrook Rd**QC JOB #:** 17042835**CITY/STATE:** Tualatin, OR**DATE:** Tue, May 13 2025

Report generated on 6/2/2025 1:12 PM

SOURCE: Quality Counts, LLC (<http://www.qualitycounts.net>) 1-877-580-2212

Type of peak hour being reported: Intersection Peak

Method for determining peak hour: Total Entering Volume

**LOCATION:** SW 115th Ave -- SW Hazelbrook Rd**QC JOB #:** 17042836**CITY/STATE:** Tualatin, OR**DATE:** Tue, May 13 2025

Report generated on 6/2/2025 1:12 PM

SOURCE: Quality Counts, LLC (<http://www.qualitycounts.net>) 1-877-580-2212

Type of peak hour being reported: Intersection Peak

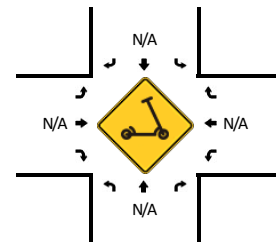
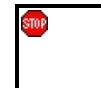
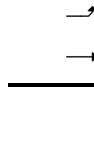
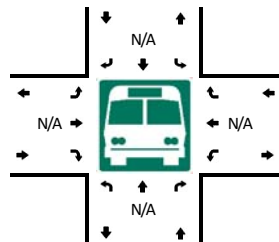
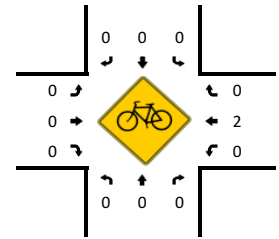
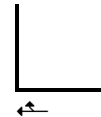
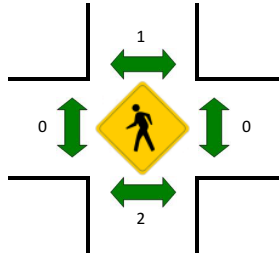
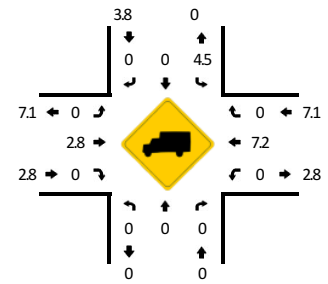
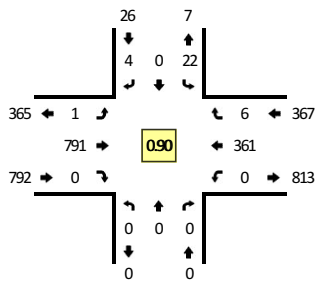
Method for determining peak hour: Total Entering Volume

**LOCATION:** SW 112th Ave -- SW Tualatin Rd**QC JOB #:** 17042839**CITY/STATE:** Tualatin, OR**DATE:** Tue, May 13 2025

Peak-Hour: 7:30 AM -- 8:30 AM  
Peak 15-Min: 7:45 AM -- 8:00 AM



TRUE DATA TO IMPROVE MOBILITY



15-Min Count Period Beginning At	SW 112th Ave (Northbound)				SW 112th Ave (Southbound)				SW Tualatin Rd (Eastbound)				SW Tualatin Rd (Westbound)				Total	Hourly Totals
	Left	Thru	Right	U	Left	Thru	Right	U	Left	Thru	Right	U	Left	Thru	Right	U		
7:00 AM	0	0	0	0	1	0	1	0	0	90	0	0	0	31	2	0	125	
7:15 AM	0	0	0	0	11	0	1	0	3	148	0	0	0	41	1	0	205	
7:30 AM	0	0	0	0	12	0	2	0	0	191	0	0	0	75	1	0	281	
7:45 AM	0	0	0	0	2	0	0	0	1	233	0	0	0	90	2	0	328	939
8:00 AM	0	0	0	0	4	0	2	0	0	201	0	0	0	100	0	0	307	1121
8:15 AM	0	0	0	0	4	0	0	0	0	166	0	0	0	96	3	0	269	1185
8:30 AM	0	0	0	0	7	0	2	0	0	156	0	0	0	85	1	0	251	1155
8:45 AM	0	0	0	0	5	0	2	0	1	140	0	0	0	89	2	0	239	1066
Peak 15-Min Flowrates	Northbound				Southbound				Eastbound				Westbound				Total	
	Left	Thru	Right	U	Left	Thru	Right	U	Left	Thru	Right	U	Left	Thru	Right	U		
All Vehicles	0	0	0	0	8	0	0	0	4	932	0	0	0	360	8	0	1312	
Heavy Trucks	0	0	0	0	0	0	0	0	0	28	0	0	0	24	0	0	52	
Buses																		
Pedestrians		0				4				0				0			4	
Bicycles	0	0	0		0	0	0		0	0	0		0	4	0		4	
Scooters																		

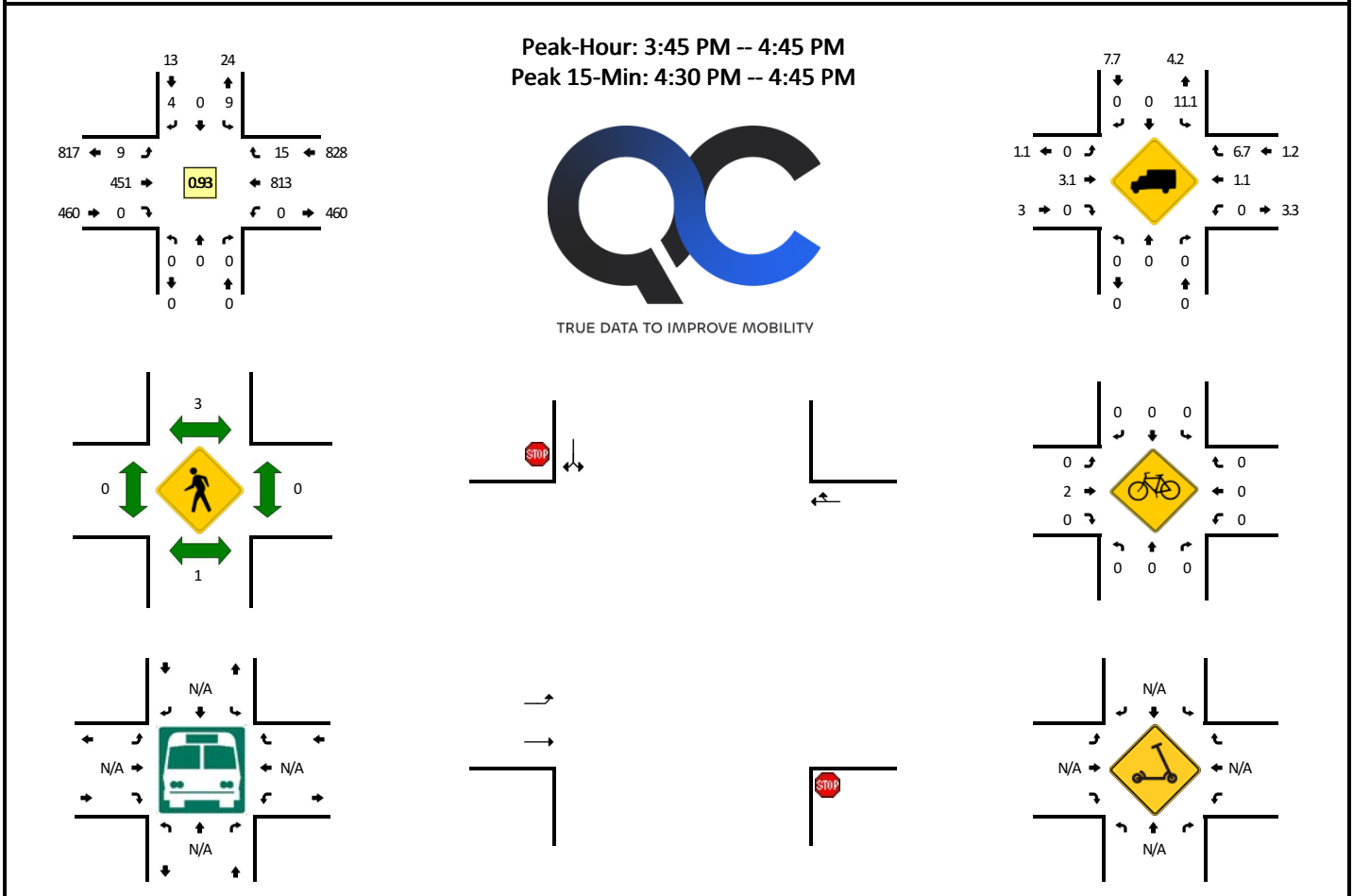
**Comments:**

Report generated on 6/2/2025 1:12 PM

SOURCE: Quality Counts, LLC (<http://www.qualitycounts.net>) 1-877-580-2212

Type of peak hour being reported: Intersection Peak

Method for determining peak hour: Total Entering Volume

**LOCATION:** SW 112th Ave -- SW Tualatin Rd**QC JOB #:** 17042840**CITY/STATE:** Tualatin, OR**DATE:** Tue, May 13 2025

15-Min Count Period Beginning At	SW 112th Ave (Northbound)				SW 112th Ave (Southbound)				SW Tualatin Rd (Eastbound)				SW Tualatin Rd (Westbound)				Total	Hourly Totals
	Left	Thru	Right	U	Left	Thru	Right	U	Left	Thru	Right	U	Left	Thru	Right	U		
3:00 PM	0	0	0	0	2	0	1	0	1	100	0	0	0	163	5	0	272	
3:15 PM	0	0	0	0	1	0	0	0	1	97	0	0	0	142	3	0	244	
3:30 PM	0	0	0	0	4	0	1	0	2	95	0	0	0	169	3	0	274	
3:45 PM	0	0	0	0	3	0	0	0	2	132	0	0	0	182	7	0	326	1116
4:00 PM	0	0	0	0	2	0	1	0	3	103	0	0	0	207	1	0	317	1161
4:15 PM	0	0	0	0	3	0	2	0	1	106	0	0	0	190	6	0	308	1225
4:30 PM	0	0	0	0	1	0	1	0	3	110	0	0	0	234	1	0	350	1301
4:45 PM	0	0	0	0	8	0	2	0	3	81	0	0	0	191	9	0	294	1269
5:00 PM	0	0	0	0	2	0	1	0	3	109	0	0	0	200	7	0	322	1274
5:15 PM	0	0	0	0	2	0	0	0	5	97	0	0	0	201	10	0	315	1281
5:30 PM	0	0	0	0	3	0	2	0	3	81	0	0	0	151	9	0	249	1180
5:45 PM	0	0	0	0	0	0	1	0	0	72	0	0	0	127	2	0	202	1088
Peak 15-Min Flowrates	Northbound				Southbound				Eastbound				Westbound				Total	
	Left	Thru	Right	U	Left	Thru	Right	U	Left	Thru	Right	U	Left	Thru	Right	U		
All Vehicles	0	0	0	0	4	0	4	0	12	440	0	0	0	936	4	0	1400	
Heavy Trucks	0	0	0	0	0	0	0	0	0	8	0	0	0	0	0	0	8	
Buses																		
Pedestrians	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Bicycles	0	0	0	0	0	0	0	0	0	4	0	0	0	0	0	0	4	
Scoters																		

**Comments:**

Report generated on 6/2/2025 1:12 PM

SOURCE: Quality Counts, LLC (<http://www.qualitycounts.net>) 1-877-580-2212