

NOTICE OF PUBLIC MEETING & AGENDA TRAFFIC SAFETY COMMISSION 7:00 PM, MONDAY, July 12, 2021

VIA Zoom

Join from a PC, Mac, iPad, iPhone or Android device: Please click this URL to join. <u>https://zoom.us/j/92664796344</u>

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To request documents in Spanish please email <u>lacey.dykgraaf@newbergoregon.gov</u> or <u>trafficsafety@newbergoregon.gov</u>

"Mission Statement: To give the residents of Newberg a forum to voice traffic safety concerns, evaluate related issues, provide a liaison with the City and promote traffic safety within the community."

I. CALL MEETING TO ORDER

II. ROLL CALL

Tony RoosSarah SandRoger KuhlmanJeff GriderMark CarletonNeal KleinLesley WoodruffRobert SherryJohn EhrlichKasper Czuk

- III. PLEDGE OF ALLEGIANCE
- IV. PUBLIC COMMENTS

ACCOMMODATION OF PHYSICAL IMPAIRMENTS: In order to accommodate persons with impairments, please notify the Engineering Department of any accommodations you may need as far in advance of the meeting as possible, and no later than two business days prior to the meeting. Contact the Engineering Department at (503) 537-1273. For TTY services please dial 711.



V. CONSENT CALENDAR

a. Traffic Safety Commission Meeting Minutes April 12, 2021

VI. STAFF REPORTS & GENERAL INFORMATION

- a. Police
- b. Engineering
 - i. Active Issues Log attached
 - ii. General Information
 - 1. Project Updates
 - 2. County Road projects maps attached

VII. NEW BUSINESS

- a. TSC 21-001 Hancock Parking
- b. Sidewalk Update Council Presentation
- c. ADA Training Class? R Gathercoal

VIII. OLD BUSINESS

- a. Roadway Safety Class M Takallou
- b. Updated TSC 20-005 Meridian Street No Parking
 i. Letter of Objection received Minthorne
- c. Worst Intersection List Attached

IX. COMMISSIONER COMMENTS

X. ADJOURNMENT – October 11, 2021 - hybrid

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CITY OF NEWBERG TRAFFIC SAFETY COMMISSION MINUTES MONDAY, April 12, 2021 7:00 PM Zoom Meeting

"Mission Statement: To give the citizens of Newberg a forum to voice traffic safety concerns, evaluate related issues, provide a liaison with the City and promote traffic safety within the community."

I. CALL MEETING TO ORDER

Chair Roos called the meeting to order at 7:00 PM.

II. ROLL CALL

Members Present:	Tony Roos Lesley Woodruff Jeff Grider	Mark Carleton Roger Kuhlman Kasper Czuk	Neal Klein Robert Sherry
Members Absent:	John Ehrlich and Sarah Sand		
Staff Present:	Kaaren Hofmann, City Engineer Doug Rux, Community Developmen	nt Director	

III. PLEDGE OF ALLEGIANCE

The pledge of allegiance was performed.

IV. PUBLIC COMMENTS

Nancy Laughland, Newberg resident, said her family owned property on Meridian and she was concerned about the intersection of Meridian and Sheridan.

V. CONSENT CALENDAR

A. Traffic Safety Commission Meeting Minutes January 11, 2021 Commissioner Grider pointed out a misspelling.

MOTION: Woodruff/Kuhlman moved to approve the Traffic Safety Commission Meeting Minutes from January 11, 2021 as amended. Motion carried (7 Yes/0 No).

VI. PRESENTATIONS

A. Dorothy Upton—ODOT Region 2 Traffic Engineer

Ms. Upton discussed three locations of concern: OR 219 (1st Street) at Everest Road, OR 219 (College Street) at Sheridan Street, and OR 240 (Main Street) at Illinois Street. OR 219 at Everest was a 4-legged intersection with Everest stop-controlled. It was a 3-lane cross section with bike lanes (24 feet wide) on the highway. The posted speed was 35 mph with average daily traffic of 11,300 vehicles. There was a wig-wag style pedestrian activated system on the west leg. The intersection often queued from OR 99W at Villa's signal and side streets.

Chair Roos said one of the biggest concerns was the visibility of the wig-wag sign.

Ms. Upton discussed the crash information for OR 219 and Everest. For 2015-2019, there were 28 crashes—2 severe, 4 at Villa, and 24 at Everest—1 pedestrian crash, and 1 bike crash. There was 1 pedestrian crash not at the enhanced crossing. Most crashes had minor street movement proceeding after

stopping. There was nothing about critical crash rates and no unusual trends. The intersection did not meet signal warrants. It was last evaluated in January 2020 using data from October 15, 2019. She did not think they should pursue movement restrictions or rerouting movements. They could consider upgrading the wig-wag activated system to a full RRFB, however it might need other features.

There was discussion regarding the RRFB option, putting stop signs on 219 and Villa going east and west bound that might slow traffic at Everest, missing sidewalk from Everest across Villa, and concerns from residents about Everest and 219.

Ms. Upton stated OR 219 at Sheridan was a 4-legged intersection with Sheridan stop-controlled and a part-time restriction from 3-6 p.m. Monday through Friday to a right turn only. It was a 2-lane cross section with no parking (24 feet wide). The posted speed was 25 mph with average daily traffic of 7,100 vehicles. The intersection often queued from the OR 99W signal and side streets. From 2015 to 2019, there were 48 crashes on Sherman to OR 99W with no fatal or severe injuries. The intersection did not meet signal warrants. Options to consider were to enforce the movement restriction or put in a physical barrier (traffic separator).

There was discussion regarding the impact of a barrier to garbage collection, emergency access, and private driveways as well as locations for the barrier and getting citizen input.

Ms. Upton said for OR 240 at Illinois, it was a 3-legged intersection on a corner with a side street that was stop-controlled. The side streets were all stop-controlled approaching the highway. There was a left turn lane on the highway and a 30-foot width south of the intersection. The posted speed was 25 mph and no parking on the highway. The average daily traffic was 8,900 vehicles on the west approach, 10,300 on the south approach, and 2,300 on the east approach. From 2015-2019, there were 6 crashes. The intersection was not investigated for signal warrants. There were no trends in the crash data and there was already a turn lane on OR 240.

There was discussion regarding the complaints about the backups on Main and Illinois, pedestrian crossing on Illinois, turning left onto Main from Illinois, speeding eastbound on 240, plans for more development in the area, and roundabout options.

Jenna Marmon, ODOT Active Transportation Liaison, said there were ADA projects coming to Newberg in 2024-2027. They were looking at what potentially could be added to leverage those projects such as the RRFB, illumination, and sidewalk infill.

B. Andrew Walker-ODOT Region 2 Project Manager

Mr. Walker gave a presentation on the design of Phase 2 of the OR 18 Newberg Dundee Bypass.

Kaitlyn Dorr, DEA Roadway, discussed the proposed intersection and sidewalk improvements for the north, south, and OR 219/Wynooski/Wilsonville intersections.

Community Development Director Rux discussed how critical the Wynooski Road realignment was to the new industrial development at the old mill site. He wanted to make sure they would not have to signalize the existing Wynooski Road because of traffic volumes as it would end up being a throw away at a huge expense and would severely impede the redevelopment.

Mr. Walker said this portion of the Bypass was ODOT's number one priority and they were currently seeking funding for it.

There was discussion regarding a left hand turn going north on 219 onto the new Wynooski intersection, bike and pedestrian access, and tying into the CPRD pathway.

Ms. Dorr explained the proposed design for Fernwood Bridge.

There was discussion regarding use of golf carts in this area, making the bridge look aesthetically pleasing, and increased noise levels.

Ms. Dorr explained the proposed OR 99W connection and intersection, Corral Creek Road connection, and Corral Creek Road/Veritas Lane connection and bike/pedestrian connection.

There was discussion regarding the proposed u-turns on the Corral Creek connection, Herbert Hoover historical marker on 99W, estimated timeline for the improvements, and signage to direct people to downtown, truck traffic, right-of-way acquisition, sound walls, and lessons learned from Phase 1.

VII. STAFF REPORTS & GENERAL INFORMATION

City Engineer Hofmann said Elliott Road was still moving forward as well as paving on North Street, Franklin Street, Willamette, and 6th as part of the Transportation Utility Fee. The City received the grant for the Safe Routes to Schools project. The Budget Committee would begin to meet next week. The next sidewalk project would be sidewalks around Scott Leavitt Park.

VIII. NEW BUSINESS - None

- IX. OLD BUSINESS These items would be discussed at the next meeting.
 - A. Updated TSC 20-005 Meridian Street No Parking
 - **B.** Friendsview University Village Decision from Planning
 - C. Worst Intersection List

X. COMMISSIONER COMMENTS

Commissioner Carleton said there was still a pothole on College and Mountain View. CE Hofmann said that was an ODOT road and it was a center line marker that had sunk.

Commissioner Klein suggested improving communications on projects.

The Commission thanked ODOT for the presentations.

The next Traffic Safety Commission meeting would be held on July 12, 2021.

XI. ADJOURNMENT

The meeting was adjourned at 9:10 PM.

Approved by the Newberg Traffic Safety Commission on this 12th day of July, 2021.

Minutes Recorder

Tony Roos Traffic Safety Commission Chair



TRAFFIC SAFETY COMMISSION

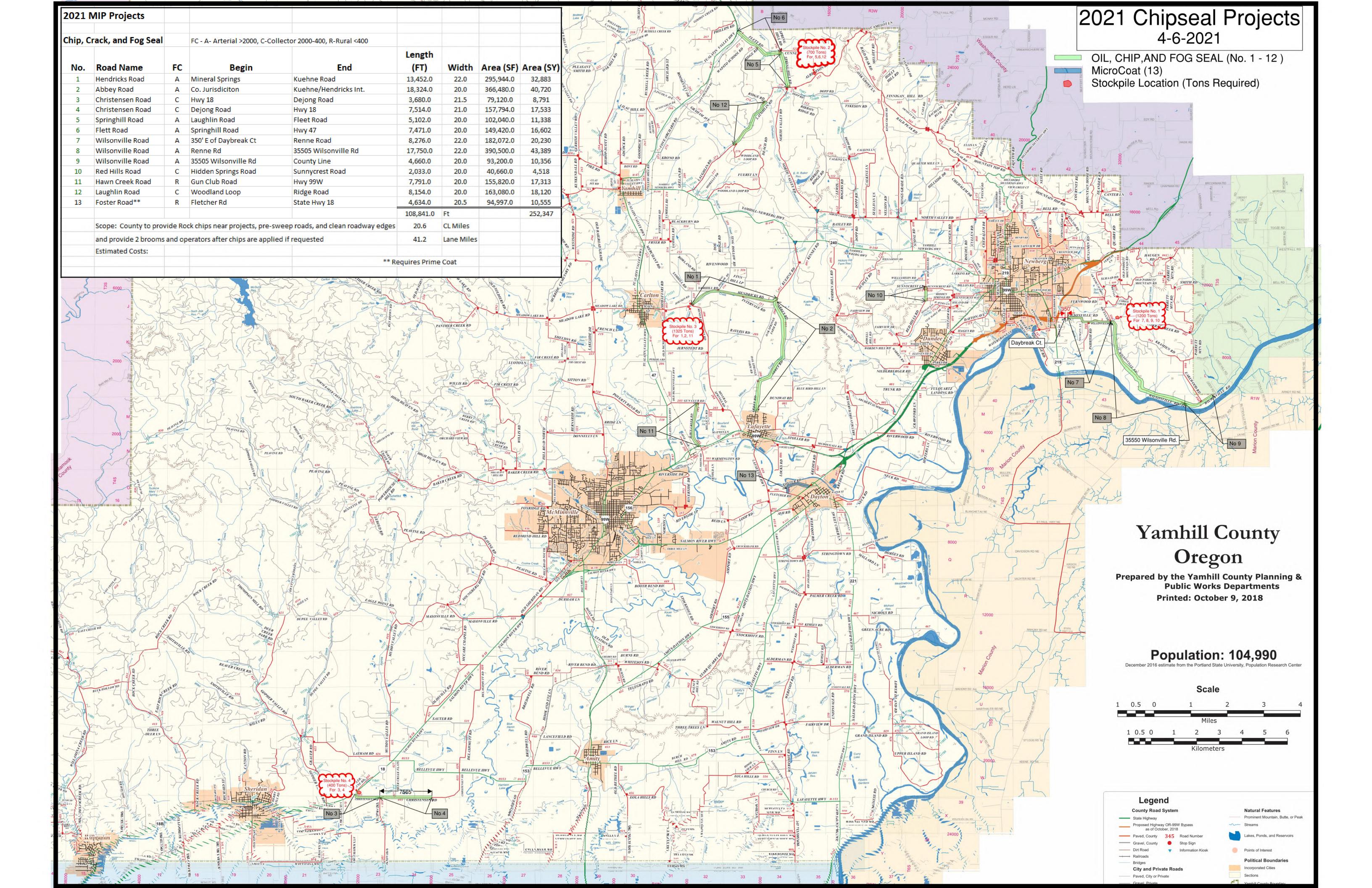
City Engineer's Office Tel: 503.537.1273 www.newbergoregon.gov

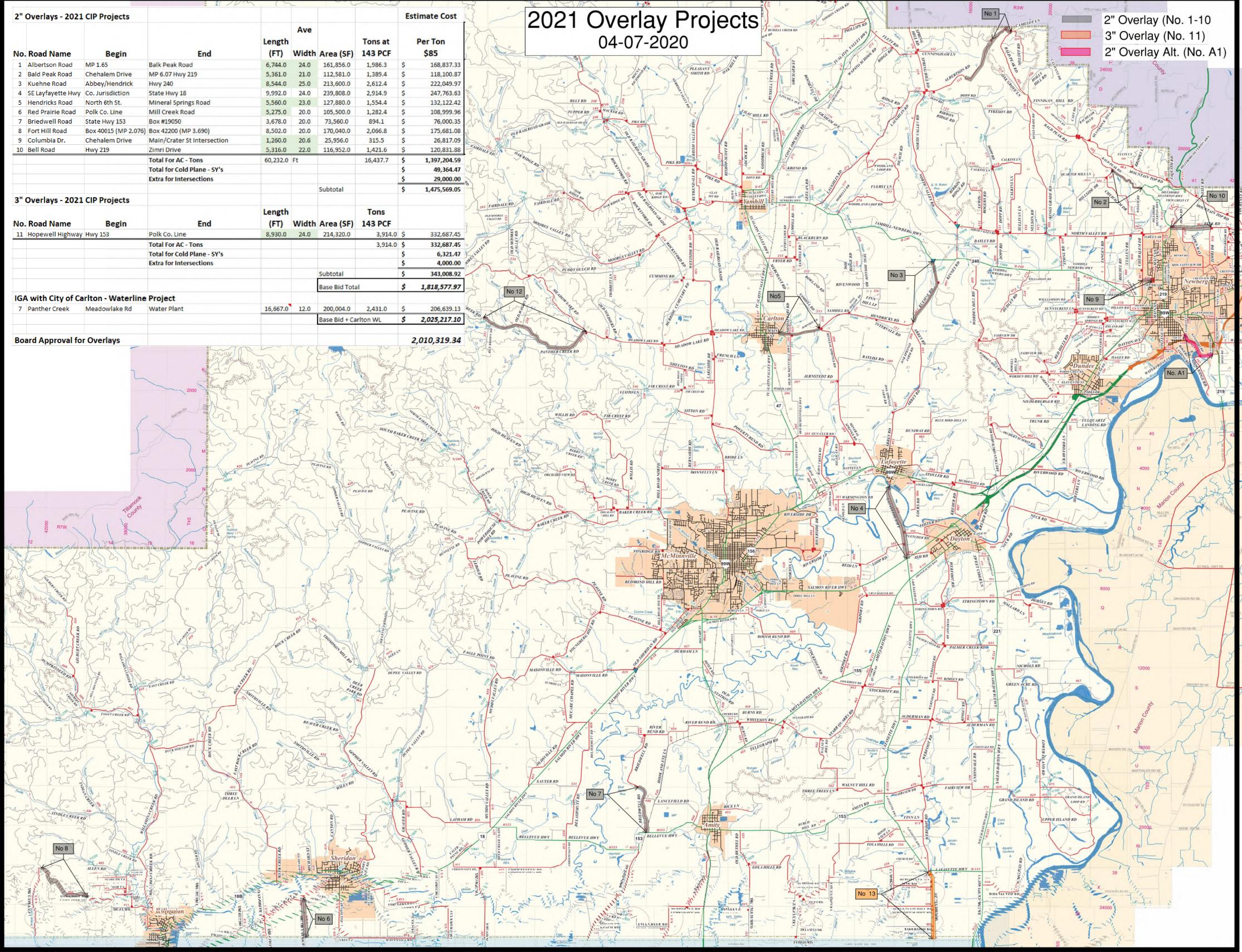
Date Received	Issue Description	Comments	Status
2/14/2019	Resident has asked to consider adding marked crosswalks on Meridian in front GFU.	Informed resident that this is similar to other requests received previously. Issues to resolve include avoiding a congestion of marked crosswalks. Potential locations identified as Sherman or North. Consultant's recommendation was forwarded onto GFU personnel. When appropriate a meeting will be held to discuss options/recommendations.	Limited Decision Issued - TSC didn't agree. New decision issued 3/18/2021 - Objection received - will hear at 7/12/2021 TSC
10/17/2019	Resident has expressed concerns regarding the width, vegetation, utility poles, road side ditches and lack of sidewalks along Sierra Vista between N College Street and N Meridian Street.	Looking into issues. Code Enforcement asked to review the area for enforcment actions. Vegetation was cut back. Other things being considered include evaluation of existing street lighting and potentially striping to delineate travel lanes.	Ongoing
5/19/2020	Resident requested an crosswalk and ramp immediately across from the Professional Center driveway on Villa Road.	Looking into this issue.	Ongoing
5/13/2020	Resident requested a crosswalk at E First Street and OR 219.		No further action at this time. Staff will be reminding ODOT to have traffic counts taken in the fall to determine if signal warrants are met.



TRAFFIC SAFETY COMMISSION

	Street, additional lighting and to address the path into Jaquith Park.	•	
1/12/2021	Fence at Park & Villa	In the hands of Code Enforcement	On hold due to COVID
	Stop sign request at Crater Ln & Edgewood to slow traffic	•	Traffic Speeds show no consistent speeding. No further action at this time.
	Speeding on Wynooski, possibility of stop sign at Wynooski & 7th	Email sent back for more information and to fill out petition; requested the installation of a the radar trailer on Wynooski	Ongoing.





31 32 33 34 5 35 36 37



May 18, 2021

Heidi Jackson-Brown 3214 E Hancock Street Newberg, OR 97132

RE: Parking Change Request Limited Traffic Decision 21-001

Dear Ms. Jackson-Brown-

Thank you for reaching out on your concerns about parking on E Hancock Street.

The Newberg Municipal Code authorizes the City Engineer to make limited traffic decisions:

2.15.410 Authority.

A. Limited Traffic Decisions. Limited traffic decisions are traffic decisions which affect and are confined to one particular location.

1. The city engineer will make an initial decision based on city policies. Notice of the decision will be mailed to property owner(s) within 300 feet of the subject location if more than one property owner is affected by the decision. The notice will include information on how to appeal the decision.

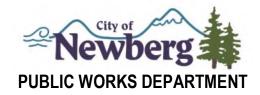
2. Request for Public Hearing. A public hearing will be held before the traffic safety commission upon written request by two or more affected property owners. Notice of the hearing will be given to property owners within 300 feet of the subject location in a manner reasonably calculated to notify affected property owners.

3. Notice of the decision by the traffic safety commission will be mailed to all property owners within 300 feet of the subject location within 10 business days of the decision.

4. Appeal. Limited traffic decisions of the traffic safety commission may be appealed to the Newberg city council within 30 days of the notice of the decision. A notice of appeal and council hearing date will be mailed to property owners within 300 feet of the subject location as provided in NMC <u>2.15.450</u>.

2.15.470 Authority of city engineer.

The city engineer will have the authority to make traffic decisions as follows:



A. General Authority. The city engineer will have the authority to establish, maintain, remove or alter any traffic control device. Such orders of the city engineer will designate the findings as to reasons for taking such action, will make entry into the schedule of decisions, and submit a report and findings as to reasons for taking such action to the traffic safety commission.

Unfortunately, we are unable to grant your request to allow parking on both sides of the street or to allow driveway ramps at each residence.

- The existing pavement width in this location is between 20 and 24' wide. The width required for firefighting apparatus is 20' wide. Allowing parking on one side as the roadway currently does narrows the width available to 12' to 16'. To allow for parking on the other side of the street will not allow for adequate access. When the street is fully developed, parking may be allowed on the north side of the street.
- NMC 15.505 requires that any driveway be 150' from an intersection with an arterial roadway. S. Springbrook Road is an arterial roadway. The existing driveway is less than 150' from the intersection but as far away as possible. Another driveway closer to the intersection will not be allowed.





Written comments on this Limited Traffic Decision can be submitted within thirty (30) days of the date of this letter to:

Newberg Traffic Safety Commission P.O. Box 970, 401 E. Third Street Newberg, OR 97132

The appeal process is explained in <u>2.15.450</u> <u>Appeals of decisions</u> of the Newberg Municipal City Code, you may access it at the city website: <u>www.newbergoregon.gov</u>.

Please call 503.537.1223 if you have any questions or need additional information.

Regards,

Kaaren Hofmann

Kaaren Hofmann, PE City Engineer

C: Traffic Safety Commission Sgt. Hagen, NDPD



MEMORANDUM TRAFFIC SAFETY DECISION

To: Newberg Traffic Safety Commission
 Cc: Jeff Kosmicki, PD Chief
 From: Kaaren Hofmann, PE, City Engineer
 RE: *UPDATED* TSC-20-005/ Meridian Street & Sheridan Street Intersection Pedestrian
 Safety Issue

After the Traffic Safety Commission in January, GFU agreed that a lesser amount of area could be designated as a "no parking zone" and still provide the safety improvements. The revised request asked for "no parking" yellow curb painting on the east side of Meridian (south of Sheridan) be extended another 20' for a total of 40' from the existing ADA ramp. This will allow for visibility and increase safety in this corridor.



AUTHORITY OF THE CITY ENGINEER

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FISCAL IMPACT

The installation of paint will cost the City approximately \$100 initially, and will be required to be maintained periodically. The funds will come from 02-5120-541000.

ENGINEERING DECISION

Install additional "no parking" yellow curb painting as noted above.

NEXT STEPS

1. Notice of this Limited Traffic Decision will be mailed to property owner(s) within 300 feet of the subject location. The notice to include information on how to appeal the decision.

2. Engineering will work with Public Works Maintenance for the indicated modifications for "no parking" yellow curb painting.

Attachments: Original TSC20-005 Decision Greenlight Engineering Report Email agreement from GFU



MEMORANDUM

ENGINEERING SERVICES P.O. Box 970 • 414 E. First Street • Newberg, Oregon 97132 Tel 503.537.1240 • Fax 503.537.1277

November 24, 2020

- To: Newberg Traffic Safety Commission
- Cc: Jeff Kosmicki, PD Chief
- From: Kaaren Hofmann, PE, City Engineer

RE: TSC-20-005/ Meridian Street & Sheridan Street Intersection Pedestrian Safety Issue

City of Newberg Engineering staff has been working with George Fox University about pedestrian safety crossing Meridian Street. In 2019, Staff hired Greenlight Engineering to take traffic counts and make a recommendation about a crosswalk location or other improvements. Their final memorandum and recommendations are attached.

After field reviews and follow up discussions with the University it appears all parties are in agreement to not pursue adding a marked crosswalk at this time. The University requested that safety could be improved by increasing sight distance at the intersection of Meridian and Sheridan. The submitted request asked for "no parking" yellow curb painting on the east side of Meridian (south of Sheridan) be extended another 35' and for a similar extension on the west side (north of Sheridan). This will allow for visibility and increase safety in this corridor. A petition was submitted making this request. The petition and emails are also attached.



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FISCAL IMPACT

The installation of paint will cost the City approximately \$200 initially, and will be required to be maintained periodically. The funds will come from 02-5120-541000.

ENGINEERING DECISION

Install additional "no parking" yellow curb painting as noted above.

NEXT STEPS

- 1. Notice of this Limited Traffic Decision will be mailed to property owner(s) within 300 feet of the subject location. The notice to include information on how to appeal the decision.
- 2. Engineering will work with Public Works Maintenance for the indicated modifications for "no parking" yellow curb painting.

February 26, 2020

Brett Musick, P.E. Senior Engineer City of Newberg 414 E. First Street PO Box 970 Newberg OR 97132 Delivered via email to <u>Brett.Musick@newbergoregon.gov</u>

RE: N Meridian Street Pedestrian Study

Mr. Musick,

The City of Newberg has requested a review of the pedestrian crossing activity and adequacy of the crossing environment on N Meridian Street between E North Street and E Sheridan Street adjacent to George Fox University ("GFU").

The need for marked east/west crosswalks was evaluated as part of this analysis. This report provides an analysis of existing pedestrian crossing behavior, traffic control and the built environment as well as develop recommendations for potential modifications to the infrastructure along N Meridian Street.

Executive Summary

- N Meridian Street, a minor collector street, is not a high volume or high speed facility in the study area between E North Street and E Sheridan Street. The intersecting roadways are also not high volume roadways. There are minimal delays for pedestrians and ample gaps for pedestrian movements throughout the day.
- There are no reported pedestrian crashes from 2009 through 2018 along this section of N Meridian Street.
- There is not evidence that would suggest that marking a crosswalk along N Meridian Street would be a safety enhancement or a detriment.
- The City of Newberg has adopted guidelines that encourage the improvement of pedestrian crossings.
- This report presents two options as traffic control suggestions:
 - **Option 1:** Install pedestrian signage at the northern and southern boundaries of the corridor and pedestrian signage at the N Meridian Street/E Sherman Street intersection.
 - **Option 2:** Install pedestrian signage at the northern and southern boundaries of the corridor and mark a crosswalk across the northern leg of the N Meridian Street/E Sherman Street intersection with complementary pedestrian signage.

Existing Conditions & Background

The purpose of this report is to evaluate the pedestrian crossing behavior and environment along N Meridian Street between E North Street and E Sheridan Street. N Meridian Street is oriented in a north/south direction and is located on the western boundary of the George Fox University Newberg campus.



Figure 1: Vicinity Map

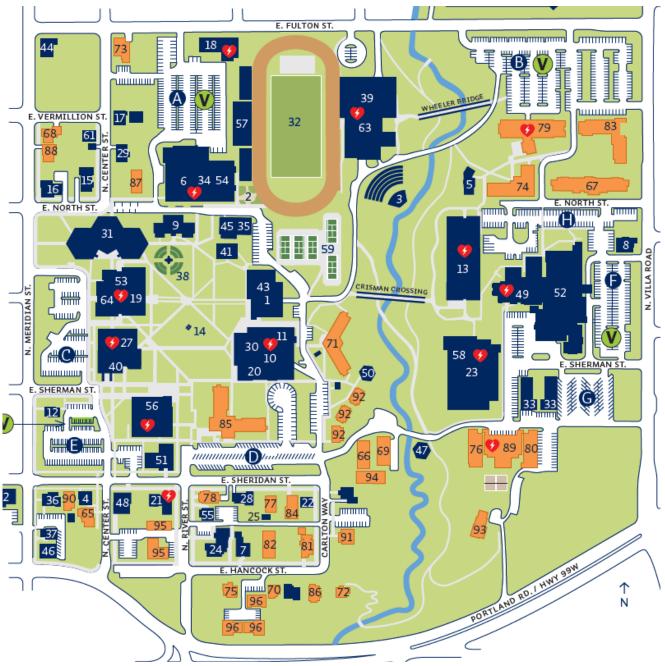


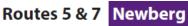
Figure 2: GFU Campus Map

N Meridian Street has an approximate paved width of 36 feet, which is slightly narrower than the adopted City of Newberg minor collector paved width of 40 feet. The street includes one northbound and one southbound travel lane. On-street parallel parking is allowed on both sides of N Meridian Street. Parking has been eliminated via yellow curb markings in short sections along N Meridian Street in locations near several of the study intersections. N Meridian Street is marked with a normal broken yellow line, which permits passing. There is adequate ight distance required for passing. The street is also marked with bicycle sharrows which indicates a shared environment for motor vehicles and bicycles. The use of sharrows is consistent with the adopted TSP cross section for a minor

collector. The speed limit is 25 MPH. There are continuous sidewalks on both sides of N Meridian Street. Curb ramps are not provided consistently at the study intersections as addressed below. Several of the existing curb ramps do not appear to comply with ADA requirements.

Yamhill County Transit Area Route 5 operates along N Meridian Street with one hour headways on weekdays only. There is one northbound bus stop located between E North Street and the northern GFU driveway.





		Rou	ite 5 Nev	vberg Fo	othills D	rive		
1st and Main (Newberg Naps Thriftway)	Meridain &E Franklin	The Oaks Apts. (near Sierra Vista Dr)	Foothills Drive & Main (Se nior Ce nter)	Main & Columbia	E 9th & Blaine	Woodview Village Apts	E Sth & Main	1st and Main (Newberg Naps Thriftway)
7:30	7:33	7:34	7:39	7:42	7:49	7:50	7:53	7:55
8:30	8:33	8:34	8:39	8:42	8:49	8:50	8:53	8:55
9:30	9:33	9:34	9:39	9:42	9:49	9:50	9:53	9:55
10:30	10:33	10:34	10:39	10:42	10:49	10:50	10:53	10:55
11:30	11:33	11:34	11:39	11:42	11:49	11:50	11:53	11:55
12:30	12:33	12:34	12:39	12:42	12:49	12:50	12:53	12:55
1:30	1:33	1:34	1:39	1:42	1:49	1:50	1:53	1:55
2:30	2:33	2:34	2:39	2:42	2:49	2:50	2:53	2:55
3:30	3:33	3:34	3:39	3:42	3:49	3:50	3:53	3:55
4:30	4:33	4:34	4:39	4:42	4:49	4:50	4:53	4:55
5:30	5:33	5:34	5:39	5:42	5:49	5:50	5:53	5:55
Weekday	v Service	Only					PM time	s in bold

Weekday Service Only

PM times in **bold**

Figure 3: Yamhill County Transit, Route 5

There are currently no marked crosswalks across any legs of any of the study intersections. It should be noted that per ORS 801.220, a crosswalk does not need to be marked in order to be considered a crosswalk. Drivers are responsible for yielding the right-of-way for pedestrians per ORS 811.028.

According to the City of Newberg Transportation System Plan ("TSP"), N Meridian Street is functionally classified as a minor collector street. All of the intersecting streets within the study area are classified as local/residential streets per the TSP.

There are sporadic streetlights along N Meridian Street that have been attached to utility poles at strategic intersection locations. The streetlights are located as referenced in Table 1.

Intersection	Configuration	Control	Illumination
			NW quadrant and oriented SE toward the center
E. North Street	4 legged	TWSC on E. North Street	of the intersection
		Stop control on GFU north	
GFU north driveway	3 legged	driveway	None
		Stop control on E. Franklin	
E. Franklin Street	3 legged	Street	NW quadrant and oriented to the east
		TWSC on E. Sherman	
E. Sherman Street/		Street & GFU south	
GFU south driveway	4 legged	driveway	NW quadrant and oriented to the east
		TWSC on E. Sheridan	NW quadrant and oriented SE toward the center
E. Sheridan Street	4 legged	Street	of the intersection.

Table 1. N. Meridian Street Intersection Details (from north to south)

TWSC = Two way stop control

A photometric analysis to determine the adequacy of existing street lighting has not been conducted as part of this evaluation.



N Meridian Street/E North Street looking to the west from the southeast quadrant; Illumination is provided only on the northeast quadrant of the intersection



N Meridian Street/E. Frankin Street looking to the west from the southeast quadrant; Illumination is provided only on the northeast quadrant of the intersection



N Meridian Street/E Sherman Street looking to the west from the northeast quadrant; Illumination is provided only on the northeast quadrant of the intersection



N Meridian Street/E Sheridan Street looking to the west from the northeast quadrant; Illumination is provided only on the northeast quadrant of the intersection

<u>Curb Ramps</u>

Intersection locations not constructed with pedestrian curb ramps or clearly not compliant with ADA requirements for curb ramps are noted below. There has been no detailed evaluation to determine if any existing curb ramps are compliant with ADA standards.

- **N Meridian Street/E North Street** The northwest quadrant and the east/west crossing of the northeast quadrant are not constructed with curb ramps. Additionally, it is clear that the southeast quadrant is not compliant with ADA standards.
- N Meridian Street/GFU Northern Site Driveway Curb ramps crossing N Meridian Street are not required here according to ORS as this is not an intersection. However, any north/south oriented curb ramps need to be compliant with ADA.
- N Meridian Street/E Franklin Street The northeast quadrant is not constructed with an east/west curb ramp. Additionally, it is clear that the northwest and southeast quadrants are not compliant with ADA standards.
- N Meridian Street/E Sherman Street/GFU Southern Site Driveway The southwest quadrant is not constructed with curb ramps. Additionally, it is clear that the northeast and southeast quadrants are not compliant with ADA standards.
- N Meridian Street/E Sheridan Street Three of the four quadrants are constructed with curb ramps, while the northwest quadrant is not constructed with curb ramps. Additionally, it is clear that the southeast and northeast quadrants are not compliant with ADA standards.

Traffic Volumes

Several traffic counts were conducted via pneumatic tube counters on Tuesday, November 19, 2019. Table 1 presents the location of the traffic counts along with the collected approximate average daily traffic ("ADT") in both directions.

Location	Approximate ADT
Between E. Vermillion Street & E. North Street	2850
Between E. North Street & E. Franklin Street	2950
Between E. Franklin Street & E. Sherman Street	3050
Between E. Sherman Street & E. Sheridan Street	2600

ADT = Average Daily Traffic

Table 3.	Other Locations – Average	Daily Traffic
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Location	Approximate ADT
South GFU Driveway east of N. Meridian Street	200
E. Sherman Street west of N. Meridian Street	200
E. North Street east of N. Meridian Street	200
E. North Street we <u>st</u> of N. Meridian Street	150

ADT = Average Daily Traffic

Based on the collected traffic volume data, it is clear that N Meridian Street carries far higher traffic volumes than the side streets and the GFU driveway in the study area. The traffic volumes are consistent with the functional classification of each roadway per the TSP. Tube count data is provided in Appendix A, which also includes the hourly directional traffic volumes as well as vehicle classifications.

Based on the speed data collected on N Meridian Street, 85th percentile speeds (the speed at which 85% of drivers travel at or below) ranged from 27-28 MPH. This data indicates good compliance with the posted speed limit of 25 MPH.

Turning movement counts were conducted on November 19, 2019 at the intersections of N Meridian Street/E North Street and N Meridian Street/E Sherman Street during the weekday AM peak hours (7 AM-9 AM) and weekday PM peak hours (2 PM–6 PM). The turning movement counts illustrated that there was little side street traffic at the selected intersections. Based upon the collected traffic volumes, it is clear that there are no intersection capacity related issues at these study intersections.

Turning movement count data is provided in Appendix B.

The volume of pedestrians crossing N Meridian Street was collected at various locations also on November 19, 2019 from 7 AM-6 PM. Quality Counts, a local transportation data collection service, initially observed and documented the volume of pedestrians at various locations along the N Meridian Street corridor. That data resulted in the summary presented in Table 4. Full results are presented in Appendix C.

Table 4. N. Meridian Street East/West Pedestrian Crossing Volumes November 10, 2019, 7 AM – 6 PM

	East/West Crossing
Location	Volume
South of E. North Street	124
North of E. Franklin Street	159
South of E. Franklin Street	49
North of E. Sherman Street	142
South of E. Sherman Street	70
North of E. Sheridan Street	113

In addition to the above table, additional review of the video collected on November 19, 2019 was conducted by our staff to better understand the crossing locations of pedestrians. It should be noted that the locations presented in Table 4 are generalized and many crossing movements were observed not crossing at an intersection, but at mid-block locations. For instance, it was observed that many pedestrians crossed N Meridian Street mid-block, south of E North Street near the north GFU driveway. This mid-block crossing behavior occurred at a variety of locations. This volume is reflected in the table as either "South of E North Street" or "North of E Franklin Street." Additionally, given the parking supply on the west side of N Meridian Street, many pedestrians were observed crossing N Meridian Street from their vehicles to the GFU campus and vice versa, not at an intersection along the corridor.

Generally, crossings near E North Street and E Franklin Street tended towards more mid-block crossing maneuvers and more varied in location than crossings near E Sherman Street and E Sheridan Street, which tended to occur more at intersections.

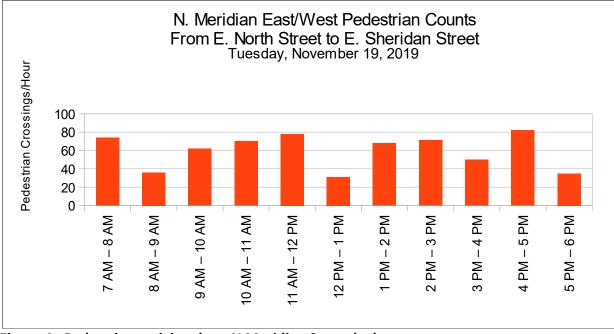


Figure 4: Pedestrian activity along N Meridian Street by hour

Parking Observations

Field observations were conducted on Tuesday, January 14, 2020 from 7 AM-10:30 AM. Based on these observations, on-street parking along N Meridian Street was well utilized. By approximately 8 AM, the on-street parking supply between E Sherman Street and E North Street was mostly occupied and remained mostly occupied during our visit with little turnover. There was still on-street parking available in the northern and southern ends of the study area along N Meridian Street. It was observed that many people parked on N Meridian Street and crossed mid-block or parked along the side streets west of N Meridian Street, then walked across the street to GFU.

Along the east side of N Meridian Street at the E Franklin Street intersection, parking is not restricted

near the location of pedestrian crossings. Additionally, there is no curb ramp constructed on the northeast quadrant of the intersection. At both of these locations, unmarked crosswalks exist.



N Meridian Street/E Franklin Street, southeast quadrant; Parking is not restricted near this crossing



N Meridian Street/E Franklin Street looking east from the northwest quadrant; No curb ramp is provided on the east side & parking is not restricted

Sight Distance

At some locations along N Meridian Street, parking has been removed near intersections via yellow curb markings. There are multiple benefits to such treatment. First, by limiting parking near intersections, intersection sight distance is enhanced as N Meridian Street traffic has the right-of-way over vehicular traffic emerging from side streets onto N Meridian Street. Each side street is controlled by a stop sign at its intersection with N Meridian Street. Second, the removal of parking near intersections improves visibility for pedestrians attempting to cross N Meridian Street or the side streets of N Meridian Street. At the same time, this improves the ability of drivers to see pedestrians waiting to cross Meridian Street or the side streets. The removal of parking additionally helps keep vehicles from blocking pedestrian curb ramps. Lastly, the removal of parking may provide benefits to large vehicles in making their turning movements at these intersections.

It should be noted that the use of yellow curb is not addressed in Oregon law and the use of yellow curb requires the adoption of a local ordinance to enforce yellow curb as a no parking zone. It is not clear that the City of Newberg has adopted such an ordinance.

Aside from the potential impacts of parking there did not appear to be any limitations to sight distance at any of the study intersections.

Discussion with GFU staff

A meeting with GFU employees Brad Lau, Vice President for Student Life & Title IX Coordinator, and Ed Gierok, Director of Campus Public Safety & Emergency Management was conducted on January 14, 2020.

Based on this conversation, it was noted that there are approximately 2600 students at the GFU Newberg campus. Approximately 1300 students live on campus, while the remainder live off campus. There are approximately 300-400 GFU employees at the Newberg campus. Tuesdays are known to have the greatest amount of activity on N Meridian Street.

Mr. Lau and Mr. Gierok report that they have heard of concerns related to traffic safety along N Meridian Street as well as personal safety at night under limited visibility conditions due to lack of lighting. They are not aware of crashes involving pedestrians, but have observed pedestrian behavior where pedestrians start to cross the road then step back to the curb due to conflicting vehicular traffic. They have not heard from pedestrians that there is a visibility issue along N Meridian Street, but they have heard concerns of drivers having difficulty with visibility related to the on-street parking along N Meridian Street. They do report that there have been auto related crashes.

Regardless of the outcome of this report, GFU intends to provide educational messages to students and staff via various communication messages regarding pedestrian safety along N Meridian Street.

Mr. Lau indicated that here is a substantial amount of student housing west of N Meridian Street and there is pedestrian crossing activity related to businesses towards downtown, which is located to the south and west of GFU. Additionally, Mr. Lau and Gierok report that students park west of N Meridian Street and walk to GFU. There is a modest semester fee of \$100 to park on-campus. They report that under normal circumstances, there is ample parking supply on-site and that it is encouraged that students not park in adjacent neighborhoods.

Mr. Lau suggested that if an enhanced crosswalk were to be marked, the N Meridian Street/E Sherman Street intersection may be the best location based on his observations.

<u>Crash History</u>

The City of Newberg's *Public Works Design and Construction Standards* provides no specific methodology for the review of safety within the City of Newberg. However, the TSP states that "Collisions at intersections are typically proportional to the number of vehicles entering it. Therefore, a crash rate describing the frequency of crashes per million entering vehicles is used to compare locations and assess if the number of crashes should be considered high. Further, a critical crash rate, a threshold value that allows for a relative comparison among intersections with similar characteristics, is computed for each intersection."

Based on this discussion, a review of the critical crash rate of each of the study intersections was evaluated based upon the procedures of ODOT's *Analysis Procedures Manual*.

A review of the recent crash history of the study intersections along N Meridian Street does not indicate that there is an existing safety problem at any of the study intersections.

Additionally, a review of the safety along N Meridian Street beyond the intersections did not illustrate a robust history of crashes.

The crash data and crash rates for the subject intersections and critical crash rates for similar intersections per the ODOT critical crash calculator are provided in Appendix D. Since the crash rates are below the critical crash rates, there is not reason to analyze the intersections further.

City of Newberg Policies

The *Newberg ADA/Pedestrian/Bike Route Improvement Plan*¹ presents "Roadway Crossing Policies and Treatments." Below are excerpts of that plan that are germane to this analysis.

"ODOT Crosswalk Policy

An engineering study is required before establishing marked crosswalks at locations other than signalized approaches at intersections, stop signs or at roundabouts. Marked crosswalks should only be considered at uncontrolled approaches when an engineering study demonstrates their need. These include criteria and considerations for the determination of when a pedestrian crossing should be marked with a parallel crosswalk and when it is appropriate to consider using continental (ladder) style crosswalks."

Criteria for Marking Crosswalks @ Mid-Block Locations

Generally mid-block crosswalks are discouraged for the same reasons as uncontrolled approaches. Midblock crosswalks often do not generate good compliance from motorists. Mid-block crosswalks should only be considered when an engineering study demonstrates their need and the location meets specific criteria outlined in the ODOT Traffic Manual.

Intersection Treatments

Several design and operational treatments could be implemented to improve the pedestrian environment at intersections. Attributes associated with good intersection design include the following: Clarity: It should be obvious to motorists that there will be pedestrians present; it should be obvious to pedestrians where to cross.

Predictability: The placement of crosswalks should be predictable. Additionally, the frequency of crossings should increase where pedestrian volumes are greater.

Visibility: The location and illumination of the crosswalk allows pedestrians to see and be seen by approaching traffic while crossing.

• Short wait: The pedestrian does not have to wait unreasonably long for an opportunity to cross.

• Limited exposure: Conflict points with traffic are few, and the distance to cross is short or is divided into shorter segments with crossing islands.

• Clear crossing: The crosswalk is free of barriers, obstacles, and hazards and is accessible to all users. Pedestrian crossing information is available in accessible locations.

Crosswalks

Newberg currently uses a variety of crosswalk treatments, including "transverse" (also called "parallel bar") markings consisting of two bars crossing an intersection; "longitudinal" (also called

^{1 &}lt;u>https://www.newbergoregon.gov/planning/page/adapedestrianbike-route-improvement-plan</u>

"ladder style") markings; and combinations of these marking styles.

Type 1: Marked/Unsignalized Crossings

A marked/unsignalized crossing (Type 1) consists of a crosswalk, signage, and often no other devices to slow or stop traffic...The following thresholds recommend where unsignalized crossings may be acceptable:

Maximum traffic volumes: ≤9,000-12,000 Average Daily Traffic (ADT)volumes

Maximum travel speed: 35 MPH

Minimum line of sight: 25 MPH zone: 155 feet

On two-lane residential and collector roads below 15,000 ADT with average vehicle speeds of 35 MPH or less, crosswalks and warning signs ("Path Xing") should be provided to warn motorists, with engineering judgment used to determine the appropriate level of traffic control and design.

Summary of At-Grade Crossing Recommendations

Table IV-2. provides guidance on how to implement at-grade path/roadway crossings in Newberg.

Roadway Type (Number of	Vehicle ADT Vehicle ADT □ 9,000 > 9,000 to 12,000				Vehicle ADT > 12,000 to 15,000			Vehicle ADT > 15,000				
Travel Lanes and Median Type)	Speed Limit **											
median Type)	30 mi/h	35 mi/h	40 mi/h	30 mi/h	35 mi/h	40 mi/h	30 mi/h	35 mi/h	40 mi/h	30 mi/h	35 mi/h	40 mi/h
2 Lanes	1	1	1/1+	1	1	1/1+	1	1	1+/3	1	1/1+	1+/3
3 Lanes	1	1	1/1+	1	1/1+	1/1+	1/1+	1/1+	1+/3	1/1+	1+/3	1+/3
Multi-Lane (4 or more lanes) with raised median ***	1	1	1/1+	1	1/1+	1+/3	1/1+	1/1+	1+/3	1+/3	1+/3	1+/3
Multi-Lane (4 or more lanes) without raised median	1	1/1+	1+/3	1/1+	1/1+	1+/3	1+/3	1+/3	1+/3	1+/3	1+/3	1+/3
where there is poor sight distance, complex or confusing designs, a substantial volume of heavy trucks, or other dangers, without first providing adequate design features and/or traffic control devices. Adding crosswalks alone will not make crossings safer, nor will they necessarily result in more vehicles stopping for pedestrians. Whether or not marked crosswalks are installed, it is important to consider other pedestrian facility enhancements (e.g., raised median, traffic signal, roadway narrowing, enhanced overhead lighting, traffic-calming measures, curb extensions), as needed, to improve the safety of the crossing. These are general recommendations; good engineering judgment should be used in individual cases for deciding which treatment to use . For each pathway-roadway crossing, an engineering study is needed to determine the proper location. For each engineering study, a site review may be sufficient at some locations, while a more in-depth study of pedestrian volume, vehicle speed, sight distance, vehicle mix, etc. may be needed at other sites.												
** Where the speed lim locations.	it excee	ds 40 mi/	h (64.4 k	.m/h), m	arked cro	sswalks a	alone she	ould not	be used	d at unsi	ignalized	d
*** The raised median or as a refuge area for pede considered a median.												
1= Type 1 Crossings. Lade	der-style	crosswal	ks with a	ppropriat	te signag	e should I	be used.					
1/1+ = With the higher vo crosswalks, median refug timing, as well as sight d	e, flashii											signal
1+/3 = Carefully analyze factoring. Make sure to p in lieu of full signals. For against signalization, imp flashing beacons, and/or distance.	those in	athway u tersectio Type 1 er	sage base ns not m nhanced (ed on futu eeting wa crosswalk	ure poter arrants or marking	itial dema where e s with ma	and. Cor ngineer arked la	nsider Po ing judg dder sty	elican, À ment or le cross	Puffin, o cost re walks, n	r Hawk commer nedian r	signals nds refuge,

Table IV-2. Summary of At-Grade Crossing Recommendations

The Newberg ADA/Pedestrian/Bike Route Improvement Plan references the ODOT Traffic Manual in making determinations for marked crosswalks. Relevant excerpts of the ODOT Traffic Manual are provided below:

"6.6.2.3 Criteria for Marking Crosswalks at Uncontrolled Approaches of Intersections Generally marked crosswalks are discouraged at uncontrolled approaches due to a concern that they may not improve safety and may, if inappropriate, put a pedestrian more at risk. The criteria are primarily restrictions on marking crosswalks in locations that would be potentially hazardous. In situations where the pedestrian volumes justify marking crosswalks (well above minimum threshold levels) additional safety measures (i.e., pedestrian refuges) should be considered above and beyond marking. Installation of a marked crosswalk will not, in and of itself, increase the level of safety for pedestrians. Marked crosswalks should only be considered at uncontrolled approaches when an engineering study demonstrates their need and the location meets the following criteria: *Required*

• There is good visibility of the crosswalk from all directions, or it can be obtained. Stopping sight distance is a minimum.

• There is no reasonable alternative crossing location.

• There is established pedestrian usage. Considerations include: volume of pedestrians, opportunity for safe crossing (i.e., sufficient gaps in traffic), percentage of elderly or young children, and the nature of the attraction (See ITE suggested pedestrian volume thresholds in Section 6.6.2.11). Lower pedestrian volumes would be acceptable for areas where there is greater proportion of less experienced and less agile pedestrians (e.g., near schools and/or elderly housing areas)

• Posted speeds should be 40 mph or less.

• Traffic Volumes should be 10,000 or less ADT. If above 10,000 ADT raised median islands should be included.

6.6.2.4 Criteria for Marking Crosswalks at Mid-Block Locations

Installations of mid-block crosswalks are discouraged for the same reasons uncontrolled approaches are discouraged. Mid-block crosswalks often do not get good compliance from motorists. Only consider mid-block crosswalks when an engineering study demonstrates their need and the location meets the following criteria:

Required

• There is good visibility of the crosswalk from all directions or it can be obtained. Stopping sight distance is a minimum.

• Posted vehicular speeds should be 40 mph or less.

• There is not a reasonable alternative at a stop-controlled intersection.

• There is established pedestrian usage. Considerations include: volume of pedestrians, opportunity for safe crossing (i.e., sufficient gaps in traffic), percentage of elderly or young children, and the nature of the attraction (see ITE suggested pedestrian volume thresholds in Section 6.6.2.11). Lower pedestrian volumes would be acceptable for areas where there is greater proportion of less experienced and less agile pedestrians (e.g. near schools and/or elderly housing areas).

• Locations should be more than 300 feet to nearest crossing or marked crosswalk.

• Traffic Volumes should be less than 10,000 ADT or if above 10,000 ADT raised median islands should be included.

• Pedestrian crossing enhancements (curb extensions and/or pedestrian refuges) should be considered.

Optional

• Where a marked crosswalk can concentrate or channelize multiple pedestrian crossings to a single location.

• Free turning movements or other operational considerations inhibit pedestrian crossing opportunities at the nearest intersection.

• Established bus stops where riders need access to the opposite side of road from the bus stop where the stop can't be relocated.

6.6.2.6 Marking Styles

Continental crosswalk markings (referred to as "Longitudinal" markings in the MUTCD) should be used for all marked crosswalks on uncontrolled approaches, yield controlled approaches, midblock locations roundabouts, unsignalized approaches of channelized right turn lanes, and all crossings employing rectangular rapid flashing beacons.

Continental crosswalk markings are the preferred style on uncontrolled approaches because they have been shown to be visible from a significantly greater distance than transverse crosswalk markings. (Crosswalk Marking Field Visibility Study, FHWA Publications No. HRT-10-068.) The added visibility of continental markings can help address the vulnerability of pedestrians at uncontrolled crosswalks where drivers are not already required to stop like they would at an intersection controlled by a traffic signal or stop sign....

6.6.2.11 Considerations for Marking Crosswalks

Engineering Study

The following considerations should be addressed in an Engineering Study:

1. Marked crosswalks at other than signalized intersections or stop-controlled approaches should be used selectively. Allowing a proliferation of marked crosswalks may reduce the overall effectiveness of marking crosswalks.

2. Consideration must be given to concerned citizens, civic groups, and neighborhood organizations; balancing engineering judgment with perceived public need.

3. The roadway design features that influence the pedestrians' ability to cross the street, e.g., street width, presence of a median, one-way versus two-way operation, and geometrics of the highway or intersection being crossed, all need to be included in the planning of the crosswalk. Other pedestrian design improvements such as curb extensions and pedestrian refuges should be encouraged to increase the safety of the crossing.

4. A three to five-year pedestrian crash history should be obtained.

5. The walking path of the pedestrian. Will marking crosswalks encourage pedestrians to use a single point of crossing rather than choosing random crossing points?

6. There should be opportunities for crossing (sufficient gaps in traffic)

7. Uncontrolled marked crosswalks may be continental crosswalk marking and should be accompanied by other enhancements such as pedestrian refuge islands, bulb-outs, pedestrian signs etc.

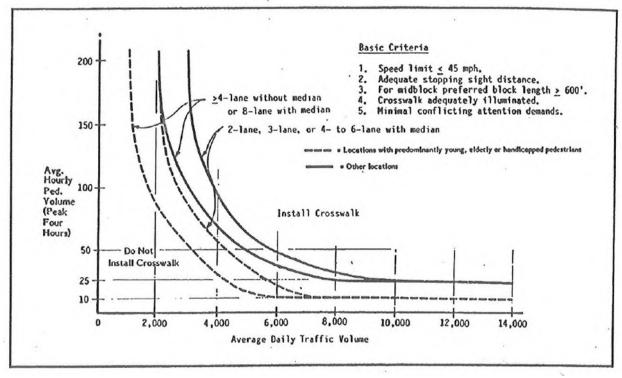
8. There should be adequate sight distance for the motorist and the pedestrian, or it can be obtained. This includes examination of on-street parking, street furniture (e.g., mailboxes, utility poles, newspaper stands), and landscaping. Corrective measures should be taken wherever possible.

9. All crosswalk locations should be investigated for adequate illumination where there is prevalent nighttime pedestrian activity.

10. Mid-block and school crossings must be supplemented with crosswalk signs

11. Mid-block crosswalks should not be located immediately down-stream from bus stops.

12. For mid-block crosswalks: are there more reasonable locations pedestrians could cross, i.e., no more than a block (300 feet) from a location being considered?



ITE Guidelines for Crosswalk Installation, August 1989

6.6.5 Crosswalk Safety

There is conflicting evidence as to the effectiveness of marked crosswalks on motorist behavior and pedestrian safety. ODOT has followed a practice of reluctance to mark crosswalks at locations other than controlled locations (i.e., signals and stop signs) and school crossings. Numerous studies (San Diego, 1972, Long Beach, 1986, Brigham Young, 1996, Santa Anna, 1999) have shown that marking crosswalks at uncontrolled locations can increase crash risk for pedestrians. In contrast some studies show higher rates of motor vehicle yielding to pedestrians at marked crosswalks.

Recent studies (Zegeer, 2000) suggest that wider (multi-lane) or higher volumes (above 10,000 ADT) contribute to higher crash risk for marked crosswalk vs. unmarked crosswalks. The study also found that the presence of a raised median was associated with a lower crash risk. Another study (Knoblauch, 1999) documented that pedestrians and motorists did not exhibit observable unsafe behaviors in marked crosswalks, in fact observable pedestrian behavior actually improved. The previous study commented that one possible explanation to higher crash rates in marked crosswalks is that a marked crosswalk may attract a higher percentage at-risk pedestrians, children and older adults (Zegeer, 2000).

From the pedestrian's point of view, a crosswalk is large and clearly marked. Crosswalks are far less visible to the drivers than to the pedestrians. At speeds greater than 45 mph, crosswalks are indiscernible at the distance a driver needs to begin braking to safely stop for pedestrians. It is important to ensure that the crosswalk markings and pedestrians are highly visible to motorists.

Marked crosswalks are routinely requested to increase the safety of crossing the highway. The function of the marked crosswalk is to provide guidance to the proper crossing location and to serve to alert motorists of a pedestrian crossing point. But unjustified or poorly located crosswalks may not increase safety. Marking crosswalks unnecessarily or in locations where there are few pedestrians may lead motorists to disrespect the marking.

A driver who passes over crosswalks marked at every intersection or a location that rarely has pedestrians may be conditioned to not expect pedestrians and thus loses respect for crosswalk marking. These crosswalks may increase the crash risk to pedestrians and motorists alike.

Most experts agree that on a busy highway, marking a crosswalk alone is rarely an effective safety

measure and in some cases may actually increase the pedestrian's crash risk. Other measures such as median refuge islands, curb extensions and illumination should be considered before a crosswalk is marked. Other improvements include improving sight distance, better access management to reduce conflicts with driveways, pedestrian signs, etc. Consideration should also be given to the overall environment in which the pedestrian crossing occurs, beyond the immediate vicinity of the proposed crosswalk, i.e. sign clutter and visual distractions. (See also Crossing Strategies)

<u>MUTCD</u>

All jurisdictions within the State of Oregon must comply with the *Manual on Uniform Traffic Control Devices*. The installation of crosswalks is addressed in Section 3B.18 of the *MUTCD* states:

Crosswalk lines should not be used indiscriminately. An engineering study should be performed before a marked crosswalk is installed at a location away from a traffic control signal or an approach controlled by a STOP or YIELD sign. The engineering study should consider the number of lanes, the presence of a median, the distance from adjacent signalized intersections, the pedestrian volumes and delays, the average daily traffic (ADT), the posted or statutory speed limit or 85th-percentile speed, the geometry of the location, the possible consolidation of multiple crossing points, the availability of street lighting, and other appropriate factors.

New marked crosswalks alone, without other measures designed to reduce traffic speeds, shorten crossing distances, enhance driver awareness of the crossing, and/or provide active warning of pedestrian presence, should not be installed across uncontrolled roadways where the speed limit exceeds 40 mph and either:

A. The roadway has four or more lanes of travel without a raised median or pedestrian refuge island and an ADT of 12,000 vehicles per day or greater; or

B. The roadway has four or more lanes of travel with a raised median or pedestrian refuge island and an ADT of 15,000 vehicles per day or greater.

The *MUTCD* does not directly address a situation like N Meridian Street other than suggesting an engineering study to determine the need for marked crosswalks. The *MUTCD* guidance is based largely on a document entitled *Safety Effects of Marked vs Unmarked Crosswalks at Uncontrolled Locations* by Charles Zegeer, et al.

In addition to the information provided in the *MUTCD* and the *ODOT Traffic Manual*, Zegeer notes that "In some situations (e.g., low-speed, two-lane streets in downtown areas), installing a marked crosswalk may help consolidate multiple crossing points. Engineering judgment should be used to install crosswalks at preferred crossing locations (e.g., at a crossing location at a streetlight as opposed to an unlit crossing point nearby). While overuse of marked crossings at uncontrolled locations should be avoided, higher priority should be placed on providing crosswalk markings where pedestrian volume exceeds about 20 per peak hour (or 15 or more elderly pedestrians and/or children per peak hour)."

Discussion

While there is a fair amount of pedestrian activity along N Meridian Street, there is not evidence that marking crosswalks in the study area will necessarily enhance safety for pedestrians nor is there

evidence that providing marked crosswalks would be a safety detriment. This conclusion aligns with adopted City of Newberg crosswalk guidance. N Meridian Street is not a high volume or high speed roadway. Pedestrians will find ample gaps in the traffic stream to cross N Meridian Street with little to no delay. There is no evidence of any recent vehicle/pedestrian traffic crashes. GFU staff indicates that they are not aware of pedestrian related crashes, although they have concerns about pedestrian safety along the corridor.

At the northern end of the corridor near E North Street, the northern GFU driveway and E Franklin Street, the locations where pedestrians choose to cross varies widely. Pedestrians will tend not to, especially in locations where there are ample gaps in the traffic stream, go out of their way to cross at intersections or marked crosswalk locations. This was regularly observed on N Meridian Street with many pedestrians crossing at locations that were most convenient for them. It can be determined that marking a crosswalk would not likely significantly change pedestrian behavior on the north end of the corridor and that pedestrians would continue to likely cross in a varied nature as they do currently.

At the southern end of the corridor near E Sherman Street and E Sheridan Street, crossings tend to occur more consistently at intersections. There was noticeably more order to the location of pedestrian crossings at the N Meridian Street/E Sherman Street intersection, with several hours exceeding 20 pedestrians per hour, which aligns with the minimum volumes presented in the Zegeer study.

Recommendations

Option 1:

 Install a W11-2 "Pedestrian" sign on N Meridian Street between E Hancock Street and E Sheridan Street facing northbound traffic and on N Meridian Street between E Vermillion Street and E North Street facing southbound traffic. Given the varied location of pedestrian crossings in the corridor, especially at the northern end of the corridor, this signage would bring general awareness to drivers that they are entering an area with higher than usual pedestrian crossing activity.



2. Install W11-2 and W16-7P (diagonal downward pointing arrow) signage at the N Meridian Street/E Sherman Street intersection. This intersection was observed to have the greatest amount of pedestrians crossing at the intersection. In order to best take advantage of the

intersection configuration, it would be recommended to place this sign on the southeast quadrant of the intersection facing the northbound traffic and the northwest quadrant of the intersection facing southbound traffic. This signage would bring awareness to the crossings that occur both across the north and south legs of the intersection.



Option 2:

- 1. Install signage per Option 1.a.
- 2. Install a marked "continental" or "ladder" style crosswalk across the northern leg of the N Meridian Street/E Sherman Street intersection. The location of this marked crosswalk would take advantage of the placement of the overhead illumination provided on the northwest quadrant of this intersection. Complement the marked crosswalk with W11-2 and W16-7P signage on the northwest quadrant facing southbound traffic and on the northeast quadrant facing northbound traffic.

ORS 801.220 states that "Whenever marked crosswalks have been indicated, such crosswalks and no other shall be deemed lawful across such roadway at that intersection." By marking the northern crossing, but not the southern crossing, this would effectively close the southern crossing of the intersection, a noted disadvantage of this option. Given the low traffic volumes, low traffic speeds and ample gaps in the traffic stream, it is unlikely that pedestrians that would normally cross the southern leg of the intersection would relocate to the northern crosswalk.

Other possible future considerations:

- Reconstruction of crossings to provide or upgrade curb ramps to better facilitate crossings for all users as well as provide better channelization of the preferred crossing locations. Evaluate compliance with ADA at each crossing location and prioritize reconstruction of those ramps. A possible priority would be to start with construction at the locations that have no curb ramps at all then reconstruct ramps that are not compliant with ADA standards.
- 2. With curb ramp reconstruction, consider the installation of curb extensions to improve visibility for pedestrians to see oncoming traffic as well as improve the visibility of pedestrians to drivers.
- 3. Evaluate and improve street illumination, especially at intersections, although improved

illumination along the corridor would also provide public safety benefits.

4. Ensure that parking removal at crossings provides sufficient stopping sight distance of 155 feet.

Should you have any questions, feel free to contact me at <u>rick@greenlightengineering.com</u> or by phone at 503-317-4559.

Sincerely,

Rich Nye

Rick Nys, P.E. Principal Traffic Engineer

61474 OREGON RD M RENEWS: 12/31/2020

<u>Appendix A</u>

Traffic Count, Vehicle Classification & Speed Data

PECIFIC LO		OR														DIREC DATE: Nov	TI <mark>ON:</mark> N / 19 201
Start Time	1 15	16 20	21 25	26 30	31 35	36 40	41 45	46 50	51 55	56 60	61 65	66 70	71 75	76 999	Total	Pace Speed	Numb in Pac
12:00 AM	0	0	3	2	1	0	0	0	0	0	0	0	0	0	6	21-30	5
01:00 AM	0	1	2	3	0	0	0	0	0	0	0	0	0	0	6	21-30	5
02:00 AM	0	0	1	2	0	0	0	0	0	0	0	0	0	0	3	21-30	3
03:00 AM	0	0	1	1	0	0	0	0	0	0	0	0	0	0	2	21-30	2
04:00 AM	0	0	5	2	0	0	0	0	0	0	0	0	0	0	7	21-30	7
05:00 AM	0	0	7	11	1	0	0	0	0	0	0	0	0	0	19	21-30	18
06:00 AM	0	4	8	14	4	0	0	0	0	0	0	0	0	0	30	21-30	22
07:00 AM	0	9	47	23	0	0	0	0	0	0	0	0	0	0	79	21-30	70
08:00 AM	0	5	37	19	2	0	0	0	0	0	0	0	0	0	63	21-30	56
09:00 AM	0	13	40	27	1	ı 1	0	0	0	0	0	0	0	0	82	21-30	67
10:00 AM	0	14	37	12	0	0	0	0	0	0	0 0	0	0	0	63	16-25	51
11:00 AM	0	16	32	23	2	0	0	0	0	0	0	0	0	0	73	21-30	55
12:00 PM	0	17	55	23	2	1	0	0	1	0	0	0	0	0	100	21-30	79
01:00 PM	0	18	46	30	3	0	0	0	0	0	0	0	0	0	97	21-30	76
01:00 PM	0	18	40	30 16	0	0	0	0	0	0	0	0	0	0	76	21-30	64
02:00 PM	0	12	48 57	44	4	0	0	0	0	0	0	0	0	0	119	21-30	101
03.00 PM	0	14	78	22	4	0	0	0	0	0	0	0	0	0	119	21-30	101
04:00 PM	0	19 23	78 82	49	5	0	0	0	0	0	0	0	0	0	120 159	21-30	131
05:00 PM	0				5	0	0	0	0		0	0	0	0			
	-	8	32	36	0	0	-	0	0	0 0	0	0	0	-	81	21-30	68
07:00 PM	0	10 5	32	32	-		0	-			°.	° °	-	0	74	21-30	64
08:00 PM	0	5	26	26	3	0	0	0	0	0	0	0	0	0	60 50	21-30	52
09:00 PM	0		23	23	2	1	0	0	0	0	0		0	0	52	21-30	46
10:00 PM	0 0	4 1	11	7	2	0	0	0	0	0	0	0	0	0	24	21-30	18
11:00 PM			4 714	12	0	0	0	0	0	0	0	-		0	17	21-30	16
Day Total Percent	0 0%	196 13.9%	714 50.6%	460 32.6%	38 2.7%	3 0.2%	0 0%	0 0%	1 0.1%	0 0%	0 0%	0 0%	0 0%	0 0%	1412	21-30	117
Percent	0%	13.9%	50.6%	32.6%	2.1%	0.2%	0%	0%	0.1%	0%	0%	0%	0%	0%			
AM Peak Volume	12:00 AM 0	11:00 AM 16	7:00 AM 47	9:00 AM 27	6:00 AM 4	9:00 AM 1	12:00 AM 0	9:00 AM 82									
PM Peak	12:00 PM	5:00 PM	5:00 PM	5:00 PM	5:00 PM	12:00 PM	12:00 PM	12:00 PM	12:00 PM	12:00 PM	12:00 PM	12:00 PM	12:00 PM	12:00 PM	5:00 PM		

Report generated on 11/25/2019 5:20 PM

<i>,</i> , ,										•							
LOCATION: Me SPECIFIC LOCA CITY/STATE: Ya	TION:		iilion & No	orth												DIF	#: 1512430 RECTION: N ov 19 2019
Speed Range	1 15	16 20	21 25	26 30	31 35	36 40	41 45	46 50	51 55	56 60	61 65	66 70	71 75	76 999	Total	Pace Speed	Number in Pace
Grand Total Percent	0 0%	196 13.9%	714 50.6%	460 32.6%	38 2.7%	3 0.2%	0 0%	0 0%	1 0.1%	0 0%	0 0%	0 0%	0 0%	0 0%	1412	21-30	1174
Cumulative Percent	0%	13.9%	64.4%	97%	99.7%	99.9%	99.9%	99.9%	100%	100%	100%	100%	100%	100%			
ADT 1412															Me		
Comments:																	

Report generated on 11/25/2019 5:20 PM

SOURCE: Quality Counts, LLC (http://www.qualitycounts.net)

Quality Counts DATA THAT DRIVES COMMUNITIES

Type of report:	Tube Count -	Volume Data
Type of report.	rube count	Volunie Dutu

	1eridian btwn Vermilion 8	& North							QC JOB #: 1512430
PECIFIC LOC									DIRECTION: N
CITY/STATE: `									E: Nov 19 2019 - Nov 19 201
Start Time	Mon Tue 19 Nov 19	Wed	Thu	Fri	Average Weekday Hourly Traffic	Sat	Sun	Average Week Hourly Traffic	Average Week Profile
12:00 AM	6				6			6	
01:00 AM	6				6			6	
02:00 AM	3				3			3	
03:00 AM	2				2			2	
04:00 AM	7				7			7	
05:00 AM	19				19			19	
06:00 AM	30				30			30	
07:00 AM	79				79			79	
08:00 AM	63				63			63	
09:00 AM	82				82			82	
10:00 AM	63				63			63	
11:00 AM	73				73			73	
12:00 PM	100				100			100	
01:00 PM	97				97			97	
02:00 PM	76				76	1		76	
03:00 PM	119				119			119	
04:00 PM	120				120			120	
05:00 PM	159				159			159	
06:00 PM	81				81			81	
07:00 PM	74				74			74	
08:00 PM	60				60			60	
09:00 PM	52				52			52	
10:00 PM	24				24	DMM		24	
11:00 PM	17				17			17	
Day Total	1412				1412			1412	
% Weekday	100%								
Average	100%								
% Week	100%				100%				
Average									
AM Peak	9:00 AM				9:00 AM			9:00 AM	
Volume	82				82			82	
PM Peak	5:00 PM				5:00 PM			5:00 PM	
Volume	159				159			159	

LOCATION: SPECIFIC LO CITY/STATE:	CATION:		rmilion 8	k North												QC JOB #: 1 DIRECTIO DATE: Nov	N: NB, S
Start Time	1 15	16 20	21 25	26 30	31 35	36 40	41 45	46 50	51 55	56 60	61 65	66 70	71 75	76 999	Total	Pace Speed	Numb in Pac
12:00 AM	0	1	5	6	1	0	0	0	0	0	0	0	0	0	13	21-30	11
01:00 AM	0	1	2	3	2	0	0	0	0	0	0	0	0	0	8	23-32	5
02:00 AM	0	0	2	3	0	0	0	0	0	0	0	0	0	0	5	21-30	5
03:00 AM	0	0	3	3	1	1	0	0	0	0	0	0	0	0	8	21-30	6
04:00 AM	0	0	6	4	5	0	0	0	0	0	0	0	0	0	15	21-30	10
05:00 AM	0	0	18	23	3	0	0	0	0	0	0	0	0	0	44	21-30	41
06:00 AM	0	4	21	48	6	0	0	0	0	0	0	0	0	0	79	21-30	69
07:00 AM	0	17	91	65	6	0	0	0	0	0	0	0	0	1	180	21-30	156
08:00 AM	0	21	100	53	5	0	0	0	0	0	0	0	0	0	179	21-30	153
09:00 AM	0	20	81	47	3	2	0	0	0	0	0	0	0	0	153	21-30	128
10:00 AM	0	28	69	42	3	0	0	0	0	0	0	0	0	0	142	21-30	111
11:00 AM	0	33	69	42	3	0	0	0	0	1	0	0	0	0	148	21-30	111
12:00 PM	0	23	94	45	8	2	0	0	1	0	0	0	ů 1	0	174	21-30	139
01:00 PM	0	40	84	54	8	0	0	0	0	0	0	0	0	0	186	21-30	138
01:00 PM	0	40 27	89	44	3	0	0	0	0	0	0	0	0	0	163	21-30	133
02:00 PM	0	29	128	82	8	0	0	0	0	0	0	0	0	1	248	21-30	210
03.00 PN 04:00 PM	0	33	128	65	6	0	0	0	0	0	0	0	0	1	248	21-30	194
04.00 PM	0	31	129 146	83	7	0	0	0	0	0	0	0	0	1	234 268	21-30	229
05:00 PM	0	16	67	65 58	9	0	0	0	1	0	0	0	0	0	151	21-30	125
	0	18	59	63	3	0	0	0	0	0	0	0	0	0	131		125
07:00 PM	-	6			-	-	0	-		0		° °	-			21-30	
08:00 PM	0		54	52	5	0		0	0		0	0	0	0	117	21-30	106
09:00 PM	0	7	36	42	4	1	0	0	0	0	0	0	0	0	90	21-30	78
10:00 PM 11:00 PM	0 0	4 1	15 9	15 20	5 1	0	0	0	0	0	0	0	0	0	39 31	21-30	30 29
Day Total	0	355	1377	962	105	6	0	0	2	1	0	0	1	4		21-30	29
Percent	0%	12.6%	49%	34.2%	3.7%	0.2%	0%	0%	0.1%	0%	0%	0%	0%	0.1%	2813	21-30	233
AM Peak Volume	12:00 AM 0	11:00 AM 33	8:00 AM 100	7:00 AM 65	6:00 AM 6	9:00 AM 2	12:00 AM 0	12:00 AM 0	12:00 AM 0	11:00 AM 1	12:00 AM 0	12:00 AM 0	12:00 AM 0	7:00 AM 1	7:00 AM 180		
PM Peak Volume	12:00 PM 0	1:00 PM 40	5:00 PM 146	5:00 PM 83	6:00 PM 9	12:00 PM 2	12:00 PM 0	12:00 PM 0	12:00 PM 1	12:00 PM 0	12:00 PM 0	12:00 PM 0	12:00 PM 1	3:00 PM 1	5:00 PM 268		

Report generated on 11/25/2019 5:20 PM

<i>'</i> '' '																	
LOCATION: Me SPECIFIC LOCA CITY/STATE: Ya	TION:		iilion & N	orth												DIREC	#: 15124309 FI ON : NB, SE ov 19 2019
Speed Range	1 15	16 20	21 25	26 30	31 35	36 40	41 45	46 50	51 55	56 60	61 65	66 70	71 75	76 999	Total	Pace Speed	Number in Pace
Grand Total Percent	0 0%	355 12.6%	1377 49%	962 34.2%	105 3.7%	6 0.2%	0 0%	0 0%	2 0.1%	1 0%	0 0%	0 0%	1 0%	4 0.1%	2813	21-30	2339
Cumulative Percent	0%	12.6%	61.6%	95.8%	99.5%	99.7%	99.7%	99.7%	99.8%	99.8%	99.8%	99.8%	99.9%	100%			
ADT 2813															Mea	an Speed(Avera Mee	ntile: 28 MPH age): 23 MPH dian: 23 MPH ode: 23 MPH
Comments:																	

Report generated on 11/25/2019 5:20 PM

SOURCE: Quality Counts, LLC (http://www.qualitycounts.net)

Quality Counts DATA THAT DRIVES COMMUNITIES

Type of report:	Tube Count -	Volume Data
Type of report.	rube count	Volunie Dutu

LOCATION: N SPECIFIC LOC CITY/STATE: `		North						DAT	QC JOB #: 1512430 DIRECTION: NB, S E: Nov 19 2019 - Nov 19 201
Start Time	Mon Tue 19 Nov 19	Wed	Thu	Fri	Average Weekday Hourly Traffic	Sat	Sun	Average Week Hourly Traffic	Average Week Profile
12:00 AM	13				13			13	
01:00 AM	8				8			8	
02:00 AM	5				5			5	
03:00 AM	8				8			8	
04:00 AM	15				15			15	
05:00 AM	44				44			44	
06:00 AM	79				79			79	
07:00 AM	180				180			180	
08:00 AM	179				179			179	
09:00 AM	153				153			153	
10:00 AM	142				142			142	
11:00 AM	148				148			148	
12:00 PM	174				174			174	
01:00 PM	186				186			186	
02:00 PM	163				163	1		163	
03:00 PM	248				248			248	
04:00 PM	234				234			234	
05:00 PM	268				268			268	
06:00 PM	151				151			151	
07:00 PM	138				138			138	
08:00 PM	117				117			117	
09:00 PM	90				90			90	
10:00 PM	39				39	OMM		39	
11:00 PM	31				31			31	
Day Total	2813				2813			2813	
% Weekday Average	100%								
% Week Average	100%				100%				
AM Peak	7:00 AM				7:00 AM			7:00 AM	
Volume	180				180			180	
PM Peak	5:00 PM				5:00 PM			5:00 PM	
Volume	268				268			268	

LOCATION: SPECIFIC LO		btwn ve	rmiion e	k NORTH												QC JOB #: 1 DIREC	TION: S
CITY/STATE:	Yamhill,	OR														DATE: Nov	/ 19 201
Start Time	1 15	16 20	21 25	26 30	31 35	36 40	41 45	46 50	51 55	56 60	61 65	66 70	71 75	76 999	Total	Pace Speed	Numbo in Pac
12:00 AM	0	1	2	4	0	0	0	0	0	0	0	0	0	0	7	21-30	6
01:00 AM	0	0	0	4	2	0	0	0	0	0	0	0	0	0	2	26-35	2
02:00 AM	0	0	1	1	0	0	0	0	0	0	0	0	0	0	2	21-30	2
03:00 AM	0	0	2	2	1	1	0	0	0	0	0	0	0	0	6	21-30	4
04:00 AM	0	0	1	2	5	0	0	0	0	0	0	0	0	0	8	26-35	7
05:00 AM	0	0	11	12	2	0	0	0	0	0	0	0	0	0	25	21-30	23
06:00 AM	0	0	13	34	2	0	0	0	0	0	0	0	0	0	49	21-30	47
07:00 AM	0	8	44	42	6	0	0	0	0	0	0	0	0	1	101	21-30	86
08:00 AM	0	16	63	34	3	0	0	0	0	0	0	0	0	0	116	21-30	97
09:00 AM	0	7	41	20	2	1	0	0	0	0	0	0	0	0	71	21-30	61
10:00 AM	0	, 14	32	30	3	0	0	0	0	0	0	0	0	0	79	21-30	62
11:00 AM	0	17	37	19	1	0	0	0	0	1	0	0	0	0	75	21-30	56
12:00 PM	0	6	39	21	6	1	0	0	0	0	0	0	1	0	75	21-30	60
01:00 PM	0	22	38	24	5	0	0	0	0	0	0	0	0	0	89	21-30	62
02:00 PM	0	15	41	24	3	0	0	0	0	0	0	0	0	0	87	21-30	69
03:00 PM	0	15	71	38	4	0	0	0	0	0	0	0	0	1	129	21-30	109
04:00 PM	0	14	51	43	5	0	0	0	0	0	0	0	0	1	114	21-30	94
05:00 PM	0	8	64	34	2	0	0	0	0	0	0	0	0	1	109	21-30	98
06:00 PM	0	8	35	22	4	0	0	0	1	0	0	0	0	0	70	21-30	57
07:00 PM	0	3	27	31	3	0	0	0	0	0	0	0	0	0	64	21-30	58
08:00 PM	0	1	28	26	2	0	0	0	0	0	0	0	0	0	57	21-30	54
09:00 PM	0	4	13	19	2	0	0	0	0	0	0	0	0	0	38	21-30	32
10:00 PM	0	0	4	8	3	0	0	0	0	0	0	0	0	0	15	21-30	12
11:00 PM	0	0	5	8	1	0	0	0	0	0	0	0	0	0	14	21-30	13
Day Total	0	159	663	502	67	3	0	0	1	1	0	0	1	4	1401	21-30	1165
Percent	0%	11.3%	47.3%	35.8%	4.8%	0.2%	0%	0%	0.1%	0.1%	0%	0%	0.1%	0.3%	1401	21-50	110.
AM Peak Volume	12:00 AM 0	11:00 AM 17	8:00 AM 63	7:00 AM 42	7:00 AM 6	3:00 AM 1	12:00 AM 0	12:00 AM 0	12:00 AM 0	11:00 AM 1	12:00 AM 0	12:00 AM 0	12:00 AM 0	7:00 AM 1	8:00 AM 116		
PM Peak Volume	12:00 PM 0	1:00 PM 22	3:00 PM 71	4:00 PM 43	12:00 PM 6	12:00 PM 1	12:00 PM 0	12:00 PM 0	6:00 PM 1	12:00 PM 0	12:00 PM 0	12:00 PM 0	12:00 PM 1	3:00 PM 1	3:00 PM 129		

Report generated on 11/25/2019 5:20 PM

<i>.</i>		•								•							
LOCATION: Me SPECIFIC LOCA	TION:		iilion & N	orth												DI	#: 15124309 Rection: Se
CITY/STATE: Ya	amhill, C	R														DATE: N	ov 19 2019
Speed Range	1 15	16 20	21 25	26 30	31 35	36 40	41 45	46 50	51 55	56 60	61 65	66 70	71 75	76 999	Total	Pace Speed	Number in Pace
Grand Total Percent	0 0%	159 11.3%	663 47.3%	502 35.8%	67 4.8%	3 0.2%	0 0%	0 0%	1 0.1%	1 0.1%	0 0%	0 0%	1 0.1%	4 0.3%	1401	21-30	1165
Cumulative Percent	0%	11.3%	58.7%	94.5%	99.3%	99.5%	99.5%	99.5%	99.6%	99.6%	99.6%	99.6%	99.7%	100%			
ADT 1401															Me		
Comments:																	

Report generated on 11/25/2019 5:20 PM



Location: N Specific Loc	leridian btwn Vermilic	n & North							QC JOB #: 1512430 DIRECTION: S
CITY/STATE: Y								DAT	DIRECTION: 3 E: Nov 19 2019 - Nov 19 201
Start Time	Mon Tue 19 Nov 1	Wed	Thu	Fri	Average Weekday Hourly Traffic	Sat	Sun	Average Week Hourly Traffic	Average Week Profile
12:00 AM	7				7			7	
01:00 AM	2				2			2	
02:00 AM	2				2			2	
03:00 AM	6				6			6	-
04:00 AM	8				8			8	
05:00 AM	25				25			25	
06:00 AM	49				49			49	
07:00 AM	101				101			101	
08:00 AM	116				116			116	
09:00 AM	71				71			71	
10:00 AM	79				79			79	
11:00 AM	75				75			75	
12:00 PM	74				74			74	
01:00 PM	89				89			89	
02:00 PM	87				87	1		87	
03:00 PM	129				129			129	
04:00 PM	114				114			114	
05:00 PM	109				109			109	
06:00 PM	70				70			70	
07:00 PM	64				64			64	
08:00 PM	57				57			57	
09:00 PM	38				38			38	
10:00 PM	15				15	DMIN		15	
11:00 PM	14				14			14	
Day Total	1401				1401			1401	
% Weekday Average	100%								
% Week Average	100%				100%				
AM Peak	8:00 AN				8:00 AM			8:00 AM	
Volume	116				116			116	
PM Peak	3:00 PN				3:00 PM			3:00 PM	
Volume	129				129			129	

LOCATION:		btwn No	orth & Fra	anklin												QC JOB #: 1	
SPECIFIC LO CITY/STATE:																DIREC DATE: Nov	TION: NE
CIT/STATE:	1		21	20	21	20	41	10	۲1	50	<u>C1</u>		71	70		DATE: NO	
Start Time	1 15	16 20	21 25	26 30	31 35	36 40	41 45	46 50	51 55	56 60	61 65	66 70	71 75	76 999	Total	Pace Speed	Numbe in Pace
12:00 AM	0	0	2	3	1	0	0	0	0	0	0	0	0	0	6	21-30	5
01:00 AM	0	1	2	2	1	0	0	0	0	0	0	0	0	0	6	21-30	4
02:00 AM	0	0	1	2	0	0	0	0	0	0	0	0	0	0	3	21-30	3
03:00 AM	0	0	0	2	0	0	0	0	0	0	0	0	0	0	2	21-30	2
04:00 AM	0	0	4	3	0	0	0	0	0	0	0	0	0	0	7	21-30	7
05:00 AM	0	0	3	11	5	0	0	0	0	0	0	0	0	0	19	26-35	16
06:00 AM	0	5	6	13	6	2	0	0	0	0	0	0	0	0	32	21-30	19
07:00 AM	0	14	33	30	3	0	0	0	0	0	0	0	0	0	80	21-30	63
08:00 AM	0	14	28	32	4	0	0	0	0	0	0	0	0	0	78	21-30	60
09:00 AM	0	16	34	27	4	1	0	0	0	0	0	0	0	0	82	21-30	61
10:00 AM	0	19	32	16	1	0	0	0	0	0	0	0	0	0	68	16-25	51
11:00 AM	0	17	34	24	4	0	0	0	0	0	0	0	0	0	79	21-30	58
12:00 PM	0	14	45	39	4	2	0	0	0	0	0	0	0	0	104	21-30	84
01:00 PM	0	15	44	34	7	0	0	0	0	0	0	0	0	0	100	21-30	78
02:00 PM	0	8	43	19	5	0	0	0	0	0	0	0	0	0	75	21-30	62
03:00 PM	0	10	54	51	5	1	1	0	0	0	0	0	0	0	122	21-30	105
04:00 PM	0	19	67	31	4	0	0	0	0	0	0	0	0	0	121	21-30	98
05:00 PM	0	20	68	62	8	2	0	Ő	0	0	0	0	0	0	160	21-30	130
06:00 PM	0	10	31	35	9	1	0	0	0	0	0	0	0	0	86	21-30	66
07:00 PM	0	7	25	35	6	0	0	0	0	0	0	0	0	0	73	21-30	60
08:00 PM	0	, 5	20	30	5	0	0	Ö	0	0	0	0	0	0	60	21-30	50
09:00 PM	0	1	17	30	3	1	0	0	0	0	0	0	0	0	52	21-30	47
10:00 PM	0	5	8	11	2	Ō	0	0	0	0	0	0	0	0	26	21-30	19
10:00 PM	0	2	2	12	2	0	0	0	0	0	0	0	0	0	18	21-30	14
Day Total	0	202	603	554	89	10	1	0	0	0	0	0	0	0	1459	21-30	1157
Percent	0%	13.8%	41.3%	38%	6.1%	0.7%	0.1%	0%	0%	0%	0%	0%	0%	0%	1135	21.50	1157
AM Peak Volume	12:00 AM 0	10:00 AM 19	9:00 AM 34	8:00 AM 32	6:00 AM 6	6:00 AM 2	12:00 AM 0	9:00 AM 82									
PM Peak Volume	12:00 PM 0	5:00 PM 20	5:00 PM 68	5:00 PM 62	6:00 PM 9	12:00 PM 2	3:00 PM 1	12:00 PM 0	5:00 PM 160								

Report generated on 11/25/2019 5:20 PM

<i>·</i> · ·																	
LOCATION: MO SPECIFIC LOCA CITY/STATE: Y	TION:		n & Frank	lin												DIF	#: 15124310 RECTION: NE ov 19 2019
Speed Range	1 15	16 20	21 25	26 30	31 35	36 40	41 45	46 50	51 55	56 60	61 65	66 70	71 75	76 999	Total	Pace Speed	Number in Pace
Grand Total Percent	0 0%	202 13.8%	603 41.3%	554 38%	89 6.1%	10 0.7%	1 0.1%	0 0%	1459	21-30	1157						
Cumulative Percent	0%	13.8%	55.2%	93.1%	99.2%	99.9%	100%	100%	100%	100%	100%	100%	100%	100%			
ADT 1459															Mea	an Speed(Avera Med	ntile: 28 MPH age): 24 MPH dian: 24 MPH ode: 23 MPH
Comments:																	

Report generated on 11/25/2019 5:20 PM



Type of report:	Tube Count -	Volume Data
Type of report.	rube count	Volunie Dutu

OCATION: N	leridian btwn North & Fra ATION:	anklin							QC JOB #: 151243 DIRECTION: 1
CITY/STATE: Y								DAT	E: Nov 19 2019 - Nov 19 203
Start Time	Mon Tue 19 Nov 19	Wed	Thu	Fri	Average Weekday Hourly Traffic	Sat	Sun	Average Week Hourly Traffic	Average Week Profile
12:00 AM	6				6			6	
01:00 AM	6				6			6	
02:00 AM	3				3			3	
03:00 AM	2				2			2	
04:00 AM	7				7			7	
05:00 AM	19				19			19	
06:00 AM	32				32			32	
07:00 AM	80				80			80	
08:00 AM	78				78			78	
09:00 AM	82				82			82	
10:00 AM	68				68			68	
11:00 AM	79				79			79	
12:00 PM	104				104			104	
01:00 PM	100				100			100	
02:00 PM	75				75			75	
03:00 PM	122				122			122	
04:00 PM	121				121			121	
05:00 PM	160				160			160	
06:00 PM	86				86			86	
07:00 PM	73				73			73	
08:00 PM	60				60			60	
09:00 PM	52				52			52	
10:00 PM	26				26	OMN		26	
11:00 PM	18				18			18	
Day Total	1459				1459			1459	
% Weekday Average	100%								
% Week Average	100%				100%				
AM Peak	9:00 AM				9:00 AM			9:00 AM	
Volume	82				82			82	
PM Peak	5:00 PM				5:00 PM			5:00 PM	
Volume	160				160			160	

CITY/STATE	: Yamhill,	OR														DATE: Nov	19 201
Start Time	1 15	16 20	21 25	26 30	31 35	36 40	41 45	46 50	51 55	56 60	61 65	66 70	71 75	76 999	Total	Pace Speed	Numb in Pac
12:00 AM	0	0	5	7	1	0	0	0	0	0	0	0	0	0	13	21-30	12
01:00 AM	0	2	2	2	3	0	0	0	0	0	0	0	0	0	9	26-35	5
02:00 AM	0	0	2	3	0	0	0	0	0	0	0	0	0	0	5	21-30	5
03:00 AM	0	0	3	3	1	1	0	0	0	0	0	0	0	0	8	21-30	6
04:00 AM	0	1	4	6	4	0	0	0	0	0	0	0	0	0	15	23-32	10
05:00 AM	0	0	17	19	8	1	0	0	0	0	0	0	0	0	45	21-30	36
06:00 AM	0	5	25	41	8	2	0	0	0	0	0	0	0	0	81	21-30	66
07:00 AM	0	28	83	66	9	0	0	0	0	0	0	0	0	0	186	21-30	149
08:00 AM	0	31	90	64	9	0	0	0	0	0	0	0	0	0	194	21-30	154
09:00 AM	0	28	76	47	7	2	0	0	0	0	0	0	0	0	160	21-30	123
10:00 AM	0	35	70	39	, 5	0	Ö	0	0	0	0	0	0	0	150	21-30	110
11:00 AM	0 0	32	81	41	5	0	0	0	0	0	0	0	0	0	159	21-30	122
12:00 PM	0	29	84	61	10	3 3	0	0	0	0	0	0	0	0	187	21-30	145
01:00 PM	0	44	79	59	13	0	0	0	0	0	0	0	0	0	195	21-30	138
02:00 PM	0	32	86	46	7	0	0	0	0	0	0	0	0	0	171	21-30	132
03:00 PM	0	31	127	85	, 9	1	1	0	0	0	0	0	0	0	254	21-30	212
03:00 PM	0	43	127	72	10	0	0	0	0	0	0	0	0	0	250	21-30	197
05:00 PM	0	43 34	125	90	10	2	0	0	0	0	0	0	0	0	230 272	21-30	226
06:00 PM	0	21	70	56	13	1	0	0	0	0	0	0	0	0	161	21-30	126
00:00 PM	0	12	49	66	10	0	0	0	0	0	0	0	0	0	137	21-30	120
07:00 PM	0	12	49 49	54	7	0	0	0	0	0	0	0	0	0	122	21-30	103
08:00 PM	0	12	49 29	49	5	1	0	0	0	0	0	0	0	0	94	21-30	78
10:00 PM	0	8	13	18	5	0	0	0	0	0	0	0	0	0	94 44	21-30	31
10:00 PM 11:00 PM	0	8 4	6	21	2	1	0	0	0	0	0	0	0	0	34	21-30	27
Day Total	0	442	1312	1015	161	15	1	0	0	0	0	0	0	0			
Percent	0%	15%	44.5%	34.5%	5.5%	0.5%	0%	0%	0%	0%	0%	0%	0%	0%	2946	21-30	232
AM Peak Volume	12:00 AM 0	10:00 AM 35	8:00 AM 90	7:00 AM 66	7:00 AM 9	6:00 AM 2	12:00 AM 0	8:00 AM 194									
PM Peak	12:00 PM	1:00 PM	5:00 PM	5:00 PM	1:00 PM	12:00 PM	3:00 PM	12:00 PM	12:00 PM	12:00 PM	12:00 PM	12:00 PM	12:00 PM	12:00 PM	5:00 PM		
Volume	0	44	136	90	13	3	1	0	0	0	0	0	0	0	272		

Report generated on 11/25/2019 5:20 PM

Type of report	: Tube C	count - Sp	beed Data	1			SUM	MARY -	Tube Co	ount - Sp	eed Dat	a					
LOCATION: M SPECIFIC LOCA CITY/STATE: Y	TION:		h & Frankl	in												DIREC	#: 15124310 FION: NB, SB ov 19 2019 -
Speed Range	1 15	16 20	21 25	26 30	31 35	36 40	41 45	46 50	51 55	56 60	61 65	66 70	71 75	76 999	Total	Pace Speed	Number in Pace
Grand Total Percent	0 0%	442 15%	1312 44.5%	1015 34.5%	161 5.5%	15 0.5%	1 0%	0 0%	0 0%	0 0%	0 0%	0 0%	0 0%	0 0%	2946	21-30	2327
Cumulative Percent	0%	15%	59.5%	94%	99.5%	100%	100%	100%	100%	100%	100%	100%	100%	100%			
ADT 2946							1								Me	an Speed(Avera Med	ntile: 28 MPH age): 23 MPH dian: 23 MPH ode: 23 MPH
Comments:																	

Location: M Specific Loc/ City/state: Y		inklin						ΤΑΠ	QC JOB #: 1512431 DIRECTION: NB, SI E: Nov 19 2019 - Nov 19 2019
Start Time	Mon Tue 19 Nov 19	Wed	Thu	Fri	Average Weekday Hourly Traffic	Sat	Sun	Average Week Hourly Traffic	Average Week Profile
12:00 AM	13				13			13	
01:00 AM	9				9			9	
02:00 AM	5				5			5	
03:00 AM	8				8			8	-
04:00 AM	15				15			15	
05:00 AM	45				45			45	
06:00 AM	81				81			81	
07:00 AM	186				186			186	
08:00 AM	194				194			194	
09:00 AM	160				160			160	
10:00 AM	150				150			150	
11:00 AM	159				159			159	
12:00 PM	187				187			187	
01:00 PM	195				195			195	
02:00 PM	171				171	1		171	
03:00 PM	254				254			254	
04:00 PM	250				250			250	
05:00 PM	272				272	1.0		272	
06:00 PM	161				161			161	
07:00 PM	137				137			137	
08:00 PM	122				122			122	
09:00 PM	94				94			94	
10:00 PM	44				44	OMN		44	
11:00 PM	34				34			34	
Day Total	2946				2946			2946	
% Weekday Average	100%								
% Week Average	100%				100%				
AM Peak	8:00 AM				8:00 AM			8:00 AM	
Volume	194				194			194	
PM Peak	5:00 PM				5:00 PM			5:00 PM	
Volume	272				272			272	

LOCATION: SPECIFIC LO	CATION:		orth & Fra	anklin													TION: SE
CITY/STATE	: Yamhill,	OR														DATE: Nov	/ 19 2019
Start Time	1 15	16 20	21 25	26 30	31 35	36 40	41 45	46 50	51 55	56 60	61 65	66 70	71 75	76 999	Total	Pace Speed	Numbe in Pace
12:00 AM	0	0	3	4	0	0	0	0	0	0	0	0	0	0	7	21-30	7
01:00 AM	0	1	0	0	2	0	0	0	0	0	0	0	0	0	3	26-35	2
02:00 AM	0	0	1	1	0	0	0	0	0	0	0	0	0	0	2	21-30	2
03:00 AM	0	0	3	1	1	1	0	0	0	0	0	0	0	0	6	21-30	4
04:00 AM	0	1	0	3	4	0	0	0	0	0	0	0	0	0	8	26-35	7
05:00 AM	0	0	14	8	3	1	0	0	0	0	0	0	0	0	26	21-30	22
06:00 AM	0	0	19	28	2	0	0	0	0	0	0	0	0	0	49	21-30	47
07:00 AM	0	14	50	36	6	0	0	0	0	0	0	0	0	0	106	21-30	86
08:00 AM	0	17	62	32	5	0	0	0	0	0	0	0	0	0	116	21-30	94
09:00 AM	0	12	42	20	3	1	0	0	0	0	0	0	0	0	78	21-30	62
10:00 AM	0	16	39	23	4	0	0	0	0	0	0	0	0	0	82	21-30	62
11:00 AM	0	15	47	17	1	0	0	0	0	0	0	0	0	0	80	21-30	64
12:00 PM	0	15	39	22	6	1	0	0	0	0	0	0	0	0	83	21-30	61
01:00 PM	0	29	35	25	6	0	0	0	0	0	0	0	0	0	95	16-25	64
02:00 PM	0	24	43	27	2	0	0	0	0	0	0	0	0	0	96	21-30	70
03:00 PM	0	21	73	34	4	0	0	0	0	0	0	0	0	0	132	21-30	107
04:00 PM	0	24	58	41	6	0	0	0	0	0	0	0	0	0	129	21-30	99
05:00 PM	0	14	68	28	2	0	0	0	0	0	0	0	0	0	112	21-30	96
06:00 PM	0	11	39	21	4	0	0	0	0	0	0	0	0	0	75	21-30	60
07:00 PM	0	5	24	31	4	0	0	0	0	0	0	0	0	0	64	21-30	55
08:00 PM	0	7	29	24	2	0	0	0	0	0	0	0	0	0	62	21-30	53
09:00 PM	0	9	12	19	2	0	0	0	0	0	0	0	0	0	42	21-30	31
10:00 PM	0	3	5	7	3	0	0	0	0	0	0	0	0	0	18	21-30	12
11:00 PM	0	2	4	9	0	1	0	0	0	0	0	0	0	0	16	21-30	13
Day Total	0	240	709	461	72	5	0	0	0	0	0	0	0	0	1487	21-30	1170
Percent	0%	16.1%	47.7%	31%	4.8%	0.3%	0%	0%	0%	0%	0%	0%	0%	0%			
AM Peak	12:00 AM	8:00 AM	8:00 AM	7:00 AM	7:00 AM	3:00 AM	12:00 AM	12:00 AM	12:00 AM	12:00 AM	12:00 AM	12:00 AM	12:00 AM	12:00 AM	8:00 AM		
Volume	12.00 AW	17	62	36	7.00 AM	3.00 AW	0	12.00 AW	12.00 AW	0	12.00 AW	12.00 AM	12.00 AM	0	116		
PM Peak Volume	12:00 PM 0	1:00 PM 29	3:00 PM 73	4:00 PM 41	12:00 PM 6	12:00 PM 1	12:00 PM 0	3:00 PM 132									

Report generated on 11/25/2019 5:20 PM

, pe e epe. e				*			00			and op							
LOCATION: Me SPECIFIC LOCA CITY/STATE: Ya	TION:		n & Frank	lin												DI	#: 15124310 RECTION: SE ov 19 2019 -
Speed Range	1 15	16 20	21 25	26 30	31 35	36 40	41 45	46 50	51 55	56 60	61 65	66 70	71 75	76 999	Total	Pace Speed	Number in Pace
Grand Total Percent	0 0%	240 16.1%	709 47.7%	461 31%	72 4.8%	5 0.3%	0 0%	1487	21-30	1170							
Cumulative Percent	0%	16.1%	63.8%	94.8%	99.7%	100%	100%	100%	100%	100%	100%	100%	100%	100%			
ADT 1487															Me	an Speed(Avera Med	ntile: 28 MPH nge): 23 MPH lian: 23 MPH ode: 23 MPH
Comments:																	

Report generated on 11/25/2019 5:20 PM

SOURCE: Quality Counts, LLC (http://www.qualitycounts.net)

Quality Counts DATA THAT DRIVES COMMUNITIES

Type of report:	Tube Count -	Volume Data
Type of report.	rube count	Volunie Dutu

	leridian btwn North & Fra	anklin							QC JOB #: 1512431
SPECIFIC LOCA									DIRECTION: S
CITY/STATE: \	′amhill, OR							DAT	E: Nov 19 2019 - Nov 19 201
Start Time	Mon Tue 19 Nov 19	Wed	Thu	Fri	Average Weekday Hourly Traffic	Sat	Sun	Average Week Hourly Traffic	Average Week Profile
12:00 AM	7				7			7	
01:00 AM	3				3			3	
02:00 AM	2				2			2	
03:00 AM	6				6			6	
04:00 AM	8				8			8	
05:00 AM	26				26			26	
06:00 AM	49				49			49	
07:00 AM	106				106			106	
08:00 AM	116				116			116	
09:00 AM	78				78			78	
10:00 AM	82				82			82	
11:00 AM	80				80			80	
12:00 PM	83				83			83	
01:00 PM	95				95			95	
02:00 PM	96				96	1		96	
03:00 PM	132				132			132	
04:00 PM	129				129			129	
05:00 PM	112				112			112	
06:00 PM	75				75			75	
07:00 PM	64				64			64	
08:00 PM	62				62			62	
09:00 PM	42				42			42	
10:00 PM	18				18	DMIN		18	
11:00 PM	16				16			16	
Day Total	1487				1487			1487	
% Weekday	100%								
Average									
% Week Average	100%				100%				
AM Peak	8:00 AM				8:00 AM			8:00 AM	
Volume	116				116			116	
PM Peak	3:00 PM				3:00 PM			3:00 PM	
Volume	132				132			132	

CITY/STATE: Yamhill, OR 1 16 15 20 12:00 AM 0 0 01:00 AM 0 0 02:00 AM 0 0 03:00 AM 0 0 04:00 AM 0 1 05:00 AM 0 3 06:00 AM 0 37 07:00 AM 0 17 07:00 AM 0 22 10:00 AM 0 23 12:00 PM 0 23 12:00 PM 0 23 12:00 PM 0 23 12:00 PM 0 23 03:00 PM 0 13 03:00 PM 0 13 03:00 PM 0 13 05:00 PM 0 13 07:00 PM 0 12 09:00 PM 0 1 08:00 PM 0 1 09:00 PM 0 1 09:00 P	anklin & Sherm	CIFIC LOCA												QC JOB #: 1 DIREC	5124311 FION: NB
Start Time 15 20 12:00 AM 0 0 01:00 AM 0 0 02:00 AM 0 0 03:00 AM 0 0 04:00 AM 0 1 05:00 AM 0 3 06:00 AM 0 3 06:00 AM 0 37 08:00 AM 0 18 09:00 AM 0 22 10:00 AM 0 23 12:00 PM 0 23 12:00 PM 0 29 02:00 PM 0 13 03:00 PM 0 13 03:00 PM 0 28 06:00 PM 0 13 07:00 PM 0 15 08:00 PM 0 12 09:00 PM 0 8 10:00 PM 0 7 11:00 PM 0 1 Day Total 0 319		Y/STATE: Y												DATE: Nov	19 2019
01:00 AM 0 0 02:00 AM 0 0 03:00 AM 0 1 05:00 AM 0 1 05:00 AM 0 3 06:00 AM 0 7 07:00 AM 0 37 08:00 AM 0 18 09:00 AM 0 22 10:00 AM 0 17 11:00 AM 0 23 12:00 PM 0 25 01:00 PM 0 29 02:00 PM 0 13 03:00 PM 0 13 03:00 PM 0 28 06:00 PM 0 13 07:00 PM 0 15 08:00 PM 0 12 09:00 PM 0 8 10:00 PM 0 7 11:00 PM 0 1	21 26 25 30	rt Time	31 35	36 40	41 45	46 50	51 55	56 60	61 65	66 70	71 75	76 999	Total	Pace Speed	Numbe in Pace
01:00 AM 0 0 02:00 AM 0 0 03:00 AM 0 0 04:00 AM 0 1 05:00 AM 0 3 06:00 AM 0 7 07:00 AM 0 37 08:00 AM 0 18 09:00 AM 0 22 10:00 AM 0 17 11:00 AM 0 23 12:00 PM 0 25 01:00 PM 0 29 02:00 PM 0 13 03:00 PM 0 13 03:00 PM 0 28 06:00 PM 0 13 07:00 PM 0 15 08:00 PM 0 12 09:00 PM 0 8 10:00 PM 0 7 11:00 PM 0 1	3 1	:00 AM	3	0	0	0	0	0	0	0	0	0	7	21-30	4
02:00 AM 0 0 03:00 AM 0 0 04:00 AM 0 1 05:00 AM 0 3 06:00 AM 0 7 07:00 AM 0 37 08:00 AM 0 18 09:00 AM 0 22 10:00 AM 0 17 11:00 AM 0 23 12:00 PM 0 25 01:00 PM 0 29 02:00 PM 0 13 03:00 PM 0 13 03:00 PM 0 28 06:00 PM 0 13 07:00 PM 0 15 08:00 PM 0 12 09:00 PM 0 8 10:00 PM 0 7 11:00 PM 0 1	2 3		0	0	0	0	0	0	0	0	0	0	5	21-30	5
04:00 AM 0 1 05:00 AM 0 3 06:00 AM 0 7 07:00 AM 0 37 08:00 AM 0 18 09:00 AM 0 22 10:00 AM 0 17 11:00 AM 0 23 12:00 PM 0 25 01:00 PM 0 29 02:00 PM 0 13 03:00 PM 0 19 04:00 PM 0 28 06:00 PM 0 13 07:00 PM 0 15 08:00 PM 0 12 09:00 PM 0 8 10:00 PM 0 7 11:00 PM 0 1 Day Total 0 319	2 1		0	0	0	0	0	0	0	0	0	0	3	21-30	3
05:00 AM 0 3 06:00 AM 0 7 07:00 AM 0 37 08:00 AM 0 18 09:00 AM 0 22 10:00 AM 0 17 11:00 AM 0 23 12:00 PM 0 25 01:00 PM 0 29 02:00 PM 0 13 03:00 PM 0 19 04:00 PM 0 28 06:00 PM 0 13 07:00 PM 0 13 07:00 PM 0 15 08:00 PM 0 12 09:00 PM 0 8 10:00 PM 0 7 11:00 PM 0 1 Day Total 0 319	0 1	:00 AM	0	0	0	0	0	0	0	0	0	0	1	21-30	1
06:00 AM 0 7 07:00 AM 0 37 08:00 AM 0 18 09:00 AM 0 22 10:00 AM 0 17 11:00 AM 0 23 12:00 PM 0 25 01:00 PM 0 29 02:00 PM 0 13 03:00 PM 0 19 04:00 PM 0 28 06:00 PM 0 13 07:00 PM 0 13 07:00 PM 0 15 08:00 PM 0 12 09:00 PM 0 8 10:00 PM 0 7 11:00 PM 0 1 Day Total 0 319	5 2	:00 AM	0	0	0	0	0	0	0	0	0	0	8	21-30	7
07:00 AM 0 37 08:00 AM 0 18 09:00 AM 0 22 10:00 AM 0 17 11:00 AM 0 23 12:00 PM 0 25 01:00 PM 0 29 02:00 PM 0 13 03:00 PM 0 19 04:00 PM 0 28 06:00 PM 0 13 07:00 PM 0 15 08:00 PM 0 12 09:00 PM 0 8 10:00 PM 0 7 11:00 PM 0 1 Day Total 0 319	5 10	:00 AM	2	0	0	0	0	0	0	0	0	0	20	21-30	15
08:00 AM 0 18 09:00 AM 0 22 10:00 AM 0 17 11:00 AM 0 23 12:00 PM 0 25 01:00 PM 0 29 02:00 PM 0 13 03:00 PM 0 19 04:00 PM 0 28 06:00 PM 0 13 07:00 PM 0 15 08:00 PM 0 12 09:00 PM 0 8 10:00 PM 0 7 11:00 PM 0 1 Day Total 0 319	12 10	:00 AM	4	1	0	0	0	0	0	0	0	0	34	21-30	22
08:00 AM 0 18 09:00 AM 0 22 10:00 AM 0 17 11:00 AM 0 23 12:00 PM 0 25 01:00 PM 0 29 02:00 PM 0 13 03:00 PM 0 19 04:00 PM 0 28 06:00 PM 0 13 07:00 PM 0 15 08:00 PM 0 12 09:00 PM 0 8 10:00 PM 0 7 11:00 PM 0 1 Day Total 0 319	59 13	:00 AM	0	0	0	0	0	0	0	0	1	0	110	16-25	96
09:00 AM 0 22 10:00 AM 0 17 11:00 AM 0 23 12:00 PM 0 25 01:00 PM 0 29 02:00 PM 0 13 03:00 PM 0 19 04:00 PM 0 28 06:00 PM 0 13 07:00 PM 0 15 08:00 PM 0 12 09:00 PM 0 8 10:00 PM 0 7 11:00 PM 0 1 Day Total 0 319	49 28		2	0	0	0	0	0	0	0	0	0	97	21-30	77
10:00 AM 0 17 11:00 AM 0 23 12:00 PM 0 25 01:00 PM 0 29 02:00 PM 0 13 03:00 PM 0 19 04:00 PM 0 21 05:00 PM 0 28 06:00 PM 0 13 07:00 PM 0 15 08:00 PM 0 12 09:00 PM 0 8 10:00 PM 0 7 11:00 PM 0 1	51 31		2	0	0	0	0	0	0	0	0	0	106	21-30	82
11:00 AM 0 23 12:00 PM 0 25 01:00 PM 0 29 02:00 PM 0 13 03:00 PM 0 19 04:00 PM 0 21 05:00 PM 0 28 06:00 PM 0 13 07:00 PM 0 15 08:00 PM 0 12 09:00 PM 0 8 10:00 PM 0 7 11:00 PM 0 1 Day Total 0 319	37 13		0	0	0	0	0	0	0	0	0	0	67	16-25	54
12:00 PM 0 25 01:00 PM 0 29 02:00 PM 0 13 03:00 PM 0 19 04:00 PM 0 21 05:00 PM 0 28 06:00 PM 0 13 07:00 PM 0 15 08:00 PM 0 12 09:00 PM 0 8 10:00 PM 0 7 11:00 PM 0 1	35 12	:00 AM	0	1	0	0	0	0	0	0	0	0	71	16-25	58
02:00 PM 0 13 03:00 PM 0 19 04:00 PM 0 21 05:00 PM 0 28 06:00 PM 0 13 07:00 PM 0 15 08:00 PM 0 12 09:00 PM 0 8 10:00 PM 0 7 11:00 PM 0 1 Day Total 0 319	50 21		3	0	0	0	0	0	0	0	0	0	99	16-25	75
02:00 PM 0 13 03:00 PM 0 19 04:00 PM 0 21 05:00 PM 0 28 06:00 PM 0 13 07:00 PM 0 15 08:00 PM 0 12 09:00 PM 0 8 10:00 PM 0 7 11:00 PM 0 1 Day Total 0 319	52 25	:00 PM	2	0	0	0	1	0	0	0	0	0	109	16-25	81
04:00 PM 0 21 05:00 PM 0 28 06:00 PM 0 13 07:00 PM 0 15 08:00 PM 0 12 09:00 PM 0 8 10:00 PM 0 7 11:00 PM 0 1 Day Total 0 319	47 21		0	0	0	0	0	0	0	0	0	0	81	21-30	68
05:00 PM 0 28 06:00 PM 0 13 07:00 PM 0 15 08:00 PM 0 12 09:00 PM 0 8 10:00 PM 0 7 11:00 PM 0 1 Day Total 0 319	61 30		4	0	0	0	0	0	0	0	0	1	115	21-30	91
06:00 PM 0 13 07:00 PM 0 15 08:00 PM 0 12 09:00 PM 0 8 10:00 PM 0 7 11:00 PM 0 1 Day Total 0 319	62 20	:00 PM	3	0	0	0	0	0	0	0	0	0	106	16-25	83
06:00 PM 0 13 07:00 PM 0 15 08:00 PM 0 12 09:00 PM 0 8 10:00 PM 0 7 11:00 PM 0 1 Day Total 0 319	89 30	:00 PM	6	0	0	0	0	0	0	0	0	0	153	21-30	119
08:00 PM 0 12 09:00 PM 0 8 10:00 PM 0 7 11:00 PM 0 1 Day Total 0 319	42 38		4	0	0	0	0	0	0	0	0	0	97	21-30	80
08:00 PM 0 12 09:00 PM 0 8 10:00 PM 0 7 11:00 PM 0 1 Day Total 0 319	33 24		2	0	0	0	0	0	0	0	0	0	74	21-30	57
10:00 PM 0 7 11:00 PM 0 1 Day Total 0 319	24 19		0	0	0	0	0	0	0	0	0	0	55	21-30	43
11:00 PM 0 1 Day Total 0 319	22 17	:00 PM	0	0	0	0	0	0	0	0	0	0	47	21-30	39
Day Total 0 319	11 7	:00 PM	2	0	0	0	0	0	0	0	0	0	27	19-28	18
	4 12	:00 PM	1	0	0	0	0	0	0	0	0	0	18	21-30	16
Percent 0% 21.1%	757 38		40	2	0	0	1	0	0	0	1	1	1510	21-30	1146
	50.1% 25.8	ercent	2.6%	0.1%	0%	0%	0.1%	0%	0%	0%	0.1%	0.1%	1510	21 50	1140
		-													
Volume 0 37	7:00 AM 9:00 A 59 31	olume	6:00 AM 4	1	0	0	12:00 AM 0	0	0	0	1	12:00 AM 0	7:00 AM 110		
PM Peak 12:00 PM 1:00 PM Volume 0 29	5:00 PM 6:00 F 89 38		5:00 PM 6	12:00 PM 0	12:00 PM 0	12:00 PM 0	1:00 PM 1	12:00 PM 0	12:00 PM 0	12:00 PM 0	12:00 PM 0	3:00 PM 1	5:00 PM 153		

Report generated on 11/25/2019 5:20 PM

<i>,</i> , ,										•••••							
LOCATION: Me SPECIFIC LOCA CITY/STATE: Ya	TION:		klin & She	rman												DIF	#: 1512431 RECTION: N ov 19 2019
Speed Range	1 15	16 20	21 25	26 30	31 35	36 40	41 45	46 50	51 55	56 60	61 65	66 70	71 75	76 999	Total	Pace Speed	Number in Pace
Grand Total Percent	0 0%	319 21.1%	757 50.1%	389 25.8%	40 2.6%	2 0.1%	0 0%	0 0%	1 0.1%	0 0%	0 0%	0 0%	1 0.1%	1 0.1%	1510	21-30	1146
Cumulative Percent	0%	21.1%	71.3%	97%	99.7%	99.8%	99.8%	99.8%	99.9%	99.9%	99.9%	99.9%	99.9%	100%			
ADT 1510															Me		
Comments:																	

Report generated on 11/25/2019 5:20 PM

SOURCE: Quality Counts, LLC (http://www.qualitycounts.net)

Quality Counts DATA THAT DRIVES COMMUNITIES

Type of report:	Tube Count -	Volume Data
Type of report.	rube count	Volunie Dutu

	eridian btwn Franklin & S	Sherman							QC JOB #: 1512431
SPECIFIC LOC								DAT	DIRECTION: N
CITY/STATE: Y		Wed	Thu	Fri	Average Maskday	Sat	Sun	Average Week	E: Nov 19 2019 - Nov 19 201
Start Time	Mon Tue 19 Nov 19	wea	mu	FII	Average Weekday Hourly Traffic	Sar	Sull	Hourly Traffic	Average Week Profile
12:00 AM	7				7			7	
01:00 AM	5				5			5	
02:00 AM	3				3			3	
03:00 AM	1				1			1	
04:00 AM	8				8			8	
05:00 AM	20				20			20	
06:00 AM	34				34			34	
07:00 AM	110				110			110	
08:00 AM	97				97			97	
09:00 AM	106				106			106	
10:00 AM	67				67			67	
11:00 AM	71				71			71	
12:00 PM	99				99			99	
01:00 PM	109				109	-		109	
02:00 PM	81				81	1		81	
03:00 PM	115				115			115	
04:00 PM	106				106			106	
05:00 PM	153				153			153	
06:00 PM	97				97			97	
07:00 PM	74				74			74	
08:00 PM	55				55			55	
09:00 PM	47				47			47	
10:00 PM	27				27	DMM		27	
11:00 PM	18				18			18	
Day Total	1510				1510			1510	
% Weekday	4000/								
Average	100%								
% Week	100%				100%				
Average								7 00 111	
AM Peak	7:00 AM				7:00 AM			7:00 AM	
Volume	110				110			110	
PM Peak	5:00 PM				5:00 PM			5:00 PM	
Volume	153				153			153	

CITY/STATE:																DATE: Nov	1
Start Time	1 15	16 20	21 25	26 30	31 35	36 40	41 45	46 50	51 55	56 60	61 65	66 70	71 75	76 999	Total	Pace Speed	Numb in Pac
12:00 AM	0	0	5	5	3	0	0	0	0	0	0	0	0	0	13	21-30	10
01:00 AM	0	1	3	3	2	0	0	0	0	0	0	0	0	0	9	21-30	6
02:00 AM	0	0	3	2	0	0	0	0	0	0	0	0	0	0	5	21-30	5
03:00 AM	0	0	2	4	1	1	0	0	0	0	0	0	0	0	8	21-30	6
04:00 AM	0	1	6	5	3	0	0	0	0	0	0	0	0	0	15	21-30	11
05:00 AM	0	4	13	23	5	1	0	0	0	0	0	0	0	0	46	21-30	36
06:00 AM	0	11	24	40	7	1	0	0	0	0	0	0	0	0	83	21-30	64
07:00 AM	0	52	101	47	3	0	0	0	0	0	0	0	1	3	207	16-25	153
08:00 AM	0	49	95	52	7	0	0	0	0	0	0	0	0	0	203	21-30	147
09:00 AM	0	36	86	51	6	0	0	0	0	0	0	0	0	0	179	21-30	137
10:00 AM	0	36	85	28	2	0	0	0	0	0	0	0	0	0	151	16-25	121
11:00 AM	0	43	76	26	1	1	0	0	1	0	0	0	0	0	148	16-25	119
12:00 PM	0	39	95	40	6	0	0	0	0	0	0	0	0	2	182	21-30	135
01:00 PM	0	50	88	56	3	0	0	0	1	0	0	0	0	0	198	21-30	144
02:00 PM	0	31	100	46	3	0	0	1	0	0	0	0	0	0	181	21-30	146
03:00 PM	0	48	133	60	8	0	0	0	0	0	0	0	0	1	250	21-30	193
04:00 PM	0	47	132	65	6	0	0	0	0	0	0	0	0	1	251	21-30	197
05:00 PM	0	48	165	54	9	0	0	0	0	0	0	0	0	0	276	21-30	219
06:00 PM	0	25	84	62	7	0	0	0	0	0	0	0	0	0	178	21-30	146
07:00 PM	0	20	63	51	5	0	0	0	0	0	0	0	0	0	139	21-30	114
08:00 PM	0	18	53	40	5	0	0	0	0	0	0	0	0	1	117	21-30	93
09:00 PM	0	16	50	38	2	0	0	0	0	0	0	0	0	0	106	21-30	88
10:00 PM	0	7	19	18	3	0	0	0	0	0	0	0	0	0	47	21-30	37
11:00 PM	0	2	10	22	3	0	0	0	0	0	0	0	0	0	37	21-30	32
Day Total	0	584	1491	838	100	4	0	1	2	0	0	0	1	8	3029	21-30	232
Percent	0%	19.3%	49.2%	27.7%	3.3%	0.1%	0%	0%	0.1%	0%	0%	0%	0%	0.3%			
AM Peak Volume	12:00 AM 0	7:00 AM 52	7:00 AM 101	8:00 AM 52	6:00 AM 7	3:00 AM 1	12:00 AM 0	12:00 AM 0	11:00 AM 1	12:00 AM 0	12:00 AM 0	12:00 AM 0	7:00 AM 1	7:00 AM 3	7:00 AM 207		
PM Peak	12:00 PM	1:00 PM	5:00 PM	4:00 PM	5:00 PM	12:00 PM	12:00 PM	2:00 PM	1:00 PM	12:00 PM	12:00 PM	12:00 PM	12:00 PM	12:00 PM	5:00 PM		

Report generated on 11/25/2019 5:20 PM

15 20 25 30 35 40 45 50 55 60 65 70 75 999 Image: Transport of)																	
peed Range 1 16 21 26 31 36 41 46 51 56 61 66 71 76 Total Pace Speed Number in Pace Grand Total 0 584 1491 838 100 4 0 1 2 0 0 0 1 8 3029 21-30 2329 2329 Cumulative Percent 0% 19.3% 49.2% 27.7% 3.3% 0.1% 0% 0.1% 0%	SPECIFIC LOCA	TION:		din & She	rman												DIREC	rion: NB, S
Percent 0% 19.3% 49.2% 27.7% 3.3% 0.1% 0% 0.1% 0% 0% 0% 0% 0.3% 3029 21-30 2329 Cumulative Percent 0% 19.3% 68.5% 96.2% 99.5% 99.6% 99.6% 99.7% 99.7% 99.7% 99.7% 99.7% 100% Image: Comparison of the c	Speed Range	1	16													Total		Number in
Percent 0% 19.3% 68.5% 96.2% 99.5% 99.6% 99.6% 99.7% 100% ADT 3029 10 10 10 10 10 100% 100% 100% 100% 100% 100% 100% 100% 100% 100% 100% 100% 100% 100% 100% 100% 100% 100% 100%	Grand Total Percent								1 0%	-	-	-	•	1 0%	-	3029	21-30	2329
ADT 3029 Mean Speed(Average): 23 MPt Median: 23 MPt	Cumulative Percent	0%	19.3%	68.5%	96.2%	99.5%	99.6%	99.6%	99.6%	99.7%	99.7%	99.7%	99.7%	99.7%	100%			
																Me	an Speed(Avera Med	ige): 23 MPH lian: 23 MPH

Report generated on 11/25/2019 5:20 PM

SOURCE: Quality Counts, LLC (http://www.qualitycounts.net)

Quality Counts DATA THAT DRIVES COMMUNITIES

Type of report:	Tube Count -	Volume Data
Type of report.	rube count	Volunie Dutu

LOCATION: M SPECIFIC LOC/ CITY/STATE: Y		Sherman						DAT	QC JOB #: 15124311 DIRECTION: NB, SE E: Nov 19 2019 - Nov 19 2019
Start Time	Mon Tue 19 Nov 19	Wed	Thu	Fri	Average Weekday Hourly Traffic	Sat	Sun	Average Week Hourly Traffic	Average Week Profile
12:00 AM	13				13			13	
01:00 AM	9				9			9	
02:00 AM	5				5			5	
03:00 AM	8				8			8	
04:00 AM	15				15			15	
05:00 AM	46				46			46	
06:00 AM	83				83			83	
07:00 AM	207				207			207	
08:00 AM	203				203			203	
09:00 AM	179				179			179	
10:00 AM	151				151			151	
11:00 AM	148				148			148	
12:00 PM	182				182			182	
01:00 PM	198				198			198	
02:00 PM	181				181	1		181	
03:00 PM	250				250			250	
04:00 PM	251				251			251	
05:00 PM	276				276	1.0		276	
06:00 PM	178				178			178	
07:00 PM	139				139			139	
08:00 PM	117				117			117	
09:00 PM	106				106			106	
10:00 PM	47				47	OMM		47	
11:00 PM	37				37			37	
Day Total	3029				3029			3029	
% Weekday Average	100%								
% Week Average	100%				100%				
AM Peak	7:00 AM				7:00 AM			7:00 AM	
Volume	207				207			207	
PM Peak	5:00 PM				5:00 PM			5:00 PM	
Volume	276				276			276	

LOCATION:	Meridian	btwn Fra	anklin & S	Sherman												QC JOB #: 1	5124311
SPECIFIC LOO	CATION:															DIREC	TION: SB
CITY/STATE:		OR														DATE: Nov	
	1	16	21	26	31	36	41	46	51	56	61	66	71	76			Number
Start Time	15	20	25	30	35	40	45	50	55	60	65	70	75	999	Total	Pace Speed	in Pace
12:00 AM	0	0	2	4	0	0	0	0	0	0	0	0	0	0	6	21-30	6
01:00 AM	0	1	1	0	2	0	0	0	0	0	0	0	0	0	4	26-35	2
02:00 AM	0	0	1	1	0	0	0	0	0	0	0	0	0	0	2	21-30	2
03:00 AM	0	0	2	3	1	1	0	0	0	0	0	0	0	0	7	21-30	5
04:00 AM	0	0	1	3	3	0	0	0	0	0	0	0	0	0	7	26-35	6
05:00 AM	0	1	8	13	3	1	0	0	0	0	0	0	0	0	26	21-30	21
06:00 AM	0	4	12	30	3	0	0	0	0	0	0	0	0	0	49	21-30	42
07:00 AM	0	15	42	34	3	0	0	0	0	0	0	0	0	3	97	21-30	76
08:00 AM	0	31	46	24	5	0	0	0	0	0	0	0	0	0	106	16-25	77
09:00 AM	0	14	35	20	4	0	0	0	0	0	0	0	0	0	73	21-30	55
10:00 AM	0	19	48	15	2	0	0	0	0	0	0	0	0	0	84	16-25	67
11:00 AM	0	20	41	14	1	0	0	0	1	0	0	0	0	0	77	16-25	61
12:00 PM	0	14	45	19	3	0	0	0	0	0	0	0	0	2	83	21-30	64
01:00 PM	0	21	36	31	1	0	0	0	0	0	0	0	0	0	89	21-30	67
02:00 PM	0	18	53	25	3	0 0	0	ů 1	Ő	0	0 0	0	0	0	100	21-30	78
03:00 PM	0	29	72	30	4	0	0	Ō	0	0	0	0	0	0	135	21-30	102
04:00 PM	0	26	70	45	3	0	0	0	0	0	0	0	0	1	135	21-30	102
05:00 PM	0	20	76	24	3	0	0	0	0	0	0	0	0	0	123	21-30	100
06:00 PM	0	12	42	24	3	0	0	0	0	0	0	0	0	0	81	21-30	66
07:00 PM	0	5	42 30	24	3	0	0	0	0	0	0	0	0	0	65	21-30	57
07:00 PM 08:00 PM	0	6	29	21	-	0	0	0	0	0	0	0	0		62	21-30	50
08:00 PM	0	8	29	21	5 2	0	0	0	0	0	0	0	0	1 0	59	21-30	49
10:00 PM	0	0	28 8	11	1	0	0	0	0	0	0	0	0	0	20		49 19
10:00 PM 11:00 PM	0	0	8 6	11	1	0	0	0	0	0	0	0	0	0	20 19	21-30 21-30	19
Day Total	0	265	734	449	60	2	0	1	1	0	0	0	0	7	15	21 50	10
Percent	0%	17.4%	48.3%	29.6%	3.9%	0.1%	0%	0.1%	0.1%	0%	0%	0%	0%	0.5%	1519	21-30	1183
AM Peak Volume PM Peak	12:00 AM 0 12:00 PM	8:00 AM 31 3:00 PM	10:00 AM 48 5:00 PM	7:00 AM 34 4:00 PM	8:00 AM 5 8:00 PM	3:00 AM 1 12:00 PM	12:00 AM 0 12:00 PM	0	11:00 AM 1 12:00 PM	0	12:00 AM 0 12:00 PM	0	12:00 AM 0 12:00 PM	3	8:00 AM 106 4:00 PM		
Volume	0	29	76	45	5	0	0	1	0	0	0	0	0	2	145		
Comments:																	

Report generated on 11/25/2019 5:20 PM

,																	
LOCATION: Me SPECIFIC LOCA CITY/STATE: Ya	TION:		din & She	rman												DI	#: 1512431 RECTION: S ov 19 2019
Speed Range	1 15	16 20	21 25	26 30	31 35	36 40	41 45	46 50	51 55	56 60	61 65	66 70	71 75	76 999	Total	Pace Speed	Number in Pace
Grand Total Percent	0 0%	265 17.4%	734 48.3%	449 29.6%	60 3.9%	2 0.1%	0 0%	1 0.1%	1 0.1%	0 0%	0 0%	0 0%	0 0%	7 0.5%	1519	21-30	1183
Cumulative Percent	0%	17.4%	65.8%	95.3%	99.3%	99.4%	99.4%	99.5%	99.5%	99.5%	99.5%	99.5%	99.5%	100%			
ADT 1519															Me		
Comments:																	

Report generated on 11/25/2019 5:20 PM



Type of report:	Tube Count -	Volume Data
Type of report.	rube count	Volunie Dutu

LOCATION: M SPECIFIC LOC/ CITY/STATE: \		bherman						DATI	QC JOB #: 1512431 DIRECTION: S E: Nov 19 2019 - Nov 19 2019
Start Time	Mon Tue 19 Nov 19	Wed	Thu	Fri	Average Weekday Hourly Traffic	Sat	Sun	Average Week Hourly Traffic	Average Week Profile
12:00 AM	6				6			6	
01:00 AM	4				4			4	
02:00 AM	2				2			2	
03:00 AM	7				7			7	
04:00 AM	7				7			7	
05:00 AM	26				26			26	
06:00 AM	49				49			49	
07:00 AM	97				97			97	
08:00 AM	106				106			106	
09:00 AM	73				73			73	
10:00 AM	84				84			84	
11:00 AM	77				77			77	
12:00 PM	83				83			83	
01:00 PM	89				89	-		89	
02:00 PM	100				100	1		100	
03:00 PM	135				135			135	
04:00 PM	145				145			145	
05:00 PM	123				123			123	
06:00 PM	81				81			81	
07:00 PM	65				65			65	
08:00 PM	62				62			62	
09:00 PM	59				59			59	
10:00 PM	20				20	DMM		20	
11:00 PM	19				19			19	
Day Total	1519				1519			1519	
% Weekday Average	100%								
% Week Average	100%				100%				
AM Peak	8:00 AM				8:00 AM			8:00 AM	
Volume	106				106			106	
PM Peak	4:00 PM				4:00 PM			4:00 PM	
Volume	145				145			145	

CITY/STATE:	Yamhill,	OR														DATE: Nov	19 201
Start Time	1 15	16 20	21 25	26 30	31 35	36 40	41 45	46 50	51 55	56 60	61 65	66 70	71 75	76 999	Total	Pace Speed	Numbe in Pac
12:00 AM	0	0	3	1	2	0	0	0	0	0	0	0	0	0	6	21-30	4
01:00 AM	0	0	1	3	1	0	0	0	0	0	0	0	0	0	5	23-32	4
02:00 AM	0	0	1	1	0	0	0	0	0	0	0	0	0	0	2	21-30	2
03:00 AM	0	0	0	1	0	0	0	0	0	0	0	0	0	0	1	21-30	1
04:00 AM	0	0	5	2	0	0	0	0	0	0	0	0	0	0	7	21-30	7
05:00 AM	0	1	5	9	3	0	0	0	0	0	0	0	0	0	18	21-30	14
06:00 AM	0	3	10	10	5	0	1	0	0	0	0	0	0	0	29	21-30	20
07:00 AM	0	12	53	26	1	0	0	0	0	0	0	0	0	0	92	21-30	79
08:00 AM	0	5	34	35	5	0	0	0	0	0	0	0	0	0	79	21-30	69
09:00 AM	0	7	45	39	5	0	0	0	0	0	0	0	0	0	96	21-30	84
10:00 AM	0	8	38	13	1	0	0	0	0	0	0	0	0	0	60	21-30	51
11:00 AM	0	7	34	14	0	1	0	0	0	0	0	0	0	0	56	21-30	48
12:00 PM	0	10	44	26	5	0	0	0	0	0	0	0	0	0	85	21-30	70
01:00 PM	0	8	48	33	5	0	0	0	0	Ő	0	0	0	0	94	21-30	81
02:00 PM	0	5	43	29	3	0	0	0	0	0	0	0	0	0	80	21-30	72
03:00 PM	0	4	43 54	43	5	0	0	0	0	0	0	0	0	0	106	21-30	97
04:00 PM	0	3	57	24	5	0	0	0	0	0	0	0	0	0	89	21-30	81
04.00 PM	0	11	68	45	7	0	0	1	0	0	0	0	0	0	132	21-30	113
06:00 PM	0	4	39	38	, 9	0	0	0	0	0	0	0	0	0	90	21-30	77
00:00 PM	0	4	33	31	3	0	0	0	0	0	0	0	0	0	68	21-30	64
07:00 PM	0	1	18	18	3	0	0	0	0	0	0	0	0	0	40	21-30	36
08.00 PM	0	4	18	20	1	0	0	0	0	0	0	0	0	0	36	21-30	31
10:00 PM	0	4	4	20 9	1	0	0	0	0	0	0	0	0	0	15	21-30	13
10:00 PM 11:00 PM	0	0	4	9 10	1	0	0	0	0	0	0	0	0	0	13	21-30	13
Day Total	0	95	650	480	71	1	1	1	0	0	0	0	0	0			
Percent	0%	7.3%	50%	37%	5.5%	0.1%	0.1%	0.1%	0%	0%	0%	0%	0%	0%	1299	21-30	1130
AM Peak Volume	12:00 AM 0	12	7:00 AM 53	9:00 AM 39	6:00 AM 5	11:00 AM 1	6:00 AM 1	12:00 AM 0	12:00 AM 0	0	0	0	0	0	9:00 AM 96		
PM Peak Volume	12:00 PM 0	5:00 PM 11	5:00 PM 68	5:00 PM 45	6:00 PM 9	12:00 PM 0	12:00 PM 0	5:00 PM 1	12:00 PM 0	5:00 PM 132							

Report generated on 11/25/2019 5:20 PM

)																	
LOCATION: Me SPECIFIC LOCA CITY/STATE: Ya	TION:		man & Sh	eridan												DIF	#: 1512431 RECTION: N ov 19 2019
Speed Range	1 15	16 20	21 25	26 30	31 35	36 40	41 45	46 50	51 55	56 60	61 65	66 70	71 75	76 999	Total	Pace Speed	Number in Pace
Grand Total Percent	0 0%	95 7.3%	650 50%	480 37%	71 5.5%	1 0.1%	1 0.1%	1 0.1%	0 0%	0 0%	0 0%	0 0%	0 0%	0 0%	1299	21-30	1130
Cumulative Percent	0%	7.3%	57.4%	94.3%	99.8%	99.8%	99.9%	100%	100%	100%	100%	100%	100%	100%			
ADT 1299															Me		
Comments:																	

Report generated on 11/25/2019 5:20 PM

SOURCE: Quality Counts, LLC (http://www.qualitycounts.net)

Quality Counts DATA THAT DRIVES COMMUNITIES

Type of report:	Tube Count -	Volume Data
Type of report.	rube count	Volunie Dutu

OCATION: M	leridian btwn Sherman & :	Sheridan							QC JOB #: 1512431 DIRECTION: N		
CITY/STATE: \								DAT	E: Nov 19 2019 - Nov 19 201		
Start Time	Mon Tue Wed Thu Fri 19 Nov 19				Average Weekday Hourly Traffic	Sat	Sun	Average Week Hourly Traffic	Average Week Profile		
12:00 AM	6				6			6			
01:00 AM	5				5			5			
02:00 AM	2				2			2			
03:00 AM	1				1			1			
04:00 AM	7				7			7			
05:00 AM	18				18			18			
06:00 AM	29				29			29			
07:00 AM	92				92			92			
08:00 AM	79				79			79			
09:00 AM	96				96			96			
10:00 AM	60				60			60			
11:00 AM	56				56			56			
12:00 PM	85				85			85			
01:00 PM	94				94			94			
02:00 PM	80				80	1		80			
03:00 PM	106				106			106			
04:00 PM	89				89			89			
05:00 PM	132				132	100		132			
06:00 PM	90				90			90			
07:00 PM	68				68			68			
08:00 PM	40				40			40			
09:00 PM	36				36			36			
10:00 PM	15				15	MM		15			
11:00 PM	13				13			13			
Day Total	1299				1299			1299			
% Weekday Average	100%										
% Week Average	100%				100%						
AM Peak	9:00 AM				9:00 AM			9:00 AM			
Volume	96				96			96			
PM Peak	5:00 PM				5:00 PM			5:00 PM			
Volume	132				132			132			

SPECIFIC LO CITY/STATE:		OR														DIRECTION DATE: Nov	
Start Time	1 15	16 20	21 25	26 30	31 35	36 40	41 45	46 50	51 55	56 60	61 65	66 70	71 75	76 999	Total	Pace Speed	Numb in Pac
12:00 AM	0	0	6	4	2	0	0	0	0	0	0	0	0	0	12	21-30	10
01:00 AM	0	0	2	3	3	0	0	0	0	0	0	0	0	0	8	26-35	6
02:00 AM	0	0	2	2	0	0	0	0	0	0	0	0	0	0	4	21-30	4
03:00 AM	0	0	3	3	1	1	0	0	0	0	0	0	0	0	8	21-30	6
04:00 AM	0	0	6	5	3	1	0	0	0	0	0	0	0	0	15	21-30	11
05:00 AM	0	1	16	19	8	0	0	0	0	0	0	0	0	0	44	21-30	35
06:00 AM	0	4	23	39	7	0	1	0	0	0	0	0	0	0	74	21-30	62
07:00 AM	0	16	92	56	5	0	0	0	0	0	0	0	0	0	169	21-30	148
08:00 AM	0	18	73	62	9	0	0	0	0	0	0	0	0	0	162	21-30	135
09:00 AM	0	9	80	60	10	0	0	0	0	0	0	0	0	0	159	21-30	140
10:00 AM	0	20	83	31	1	0	0	0	0	0	0	0	0	0	135	21-30	114
11:00 AM	0	14	75	31	0	1	0	0	0	0	0	0	0	0	121	21-30	106
12:00 PM	0	18	86	45	9	0	0	0	0	0	0	0	0	0	158	21-30	131
01:00 PM	0	23	86	58	7	0	0	0	0	0	0	0	0	0	174	21-30	144
02:00 PM	0	14	93	60	5	0	0	0	0	0	0	0	0	0	172	21-30	153
03:00 PM	0	15	123	74	10	0	0	0	0	1	0	0	0	0	223	21-30	197
04:00 PM	0	23	116	67	7	0	0	0	0	0	0	0	0	0	213	21-30	183
05:00 PM	0	15	130	72	10	0	1	1	0	0	0	0	0	0	229	21-30	202
06:00 PM	0	9	78	65	11	0	0	0	0	0	0	0	0	0	163	21-30	143
07:00 PM	0	4	60	57	8	0	0	0	0	0	0	0	0	0	129	21-30	117
08:00 PM	0	3	42	40	7	0	0	0	0	0	0	0	0	0	92	21-30	82
09:00 PM	0	5	30	36	3	0	0	0	0	0	0	0	0	0	74	21-30	66
10:00 PM	0	1	6	15	2	0	0	0	0	0	0	0	0	0	24	21-30	21
11:00 PM	0	0	8	14	5	1	0	0	0	0	0	0	0	0	28	21-30	22
Day Total	0	212	1319	918	133	4	2	1	0	1	0	0	0	0	2590	21-30	223
Percent	0%	8.2%	50.9%	35.4%	5.1%	0.2%	0.1%	0%	0%	0%	0%	0%	0%	0%			
															7.00.000		
AM Peak Volume	0	10:00 AM 20	7:00 AM 92	8:00 AM 62	9:00 AM 10	3:00 AM 1	6:00 AM 1	0	12:00 AM 0	0	0	0	0	0	7:00 AM 169		
PM Peak Volume	12:00 PM 0	1:00 PM 23	5:00 PM 130	3:00 PM 74	6:00 PM 11	11:00 PM 1	5:00 PM 1	5:00 PM 1	12:00 PM 0	3:00 PM 1	12:00 PM 0	12:00 PM 0	12:00 PM 0	12:00 PM 0	5:00 PM 229		

Report generated on 11/25/2019 5:20 PM

SUMMARY - Tube Count - Speed Data

<i>,</i> , ,										•••••							
LOCATION: Me SPECIFIC LOCA CITY/STATE: Ya	TION:		man & Sho	eridan												DIREC	#: 15124312 FION: NB, SE ov 19 2019
Speed Range	1 15	16 20	21 25	26 30	31 35	36 40	41 45	46 50	51 55	56 60	61 65	66 70	71 75	76 999	Total	Pace Speed	Number in Pace
Grand Total Percent	0 0%	212 8.2%	1319 50.9%	918 35.4%	133 5.1%	4 0.2%	2 0.1%	1 0%	0 0%	1 0%	0 0%	0 0%	0 0%	0 0%	2590	21-30	2237
Cumulative Percent	0%	8.2%	59.1%	94.6%	99.7%	99.8%	99.9%	100%	100%	100%	100%	100%	100%	100%			
ADT 2590															Me	an Speed(Avera Mee	ntile: 28 MPH age): 24 MPH dian: 24 MPH ode: 23 MPH
Comments:																	

Report generated on 11/25/2019 5:20 PM



Type of report:	Tube Count -	Volume Data
Type of report.	rube count	Volunie Dutu

OCATION: M	eridian btwn Sherman &	Sheridan							QC JOB #: 1512431 DIRECTION: NB, S
CITY/STATE: Y								DAT	E: Nov 19 2019 - Nov 19 201
Start Time	Mon Tue 19 Nov 19	Wed	Thu	Fri	Average Weekday Hourly Traffic	y Sat Sun		Average Week Hourly Traffic	Average Week Profile
12:00 AM	12				12			12	
01:00 AM	8				8			8	
02:00 AM	4				4			4	
03:00 AM	8				8			8	
04:00 AM	15				15			15	
05:00 AM	44				44			44	
06:00 AM	74				74			74	
07:00 AM	169				169			169	
08:00 AM	162				162			162	
09:00 AM	159				159			159	
10:00 AM	135				135			135	
11:00 AM	121				121			121	
12:00 PM	158				158			158	
01:00 PM	174				174			174	
02:00 PM	172				172	1		172	
03:00 PM	223				223			223	
04:00 PM	213				213			213	
05:00 PM	229				229	1 C		229	
06:00 PM	163				163			163	
07:00 PM	129				129			129	
08:00 PM	92				92			92	
09:00 PM	74				74			74	
10:00 PM	24				24	OMN		24	
11:00 PM	28				28			28	
Day Total	2590				2590			2590	
% Weekday Average	100%								
% Week Average	100%				100%				
AM Peak	7:00 AM				7:00 AM			7:00 AM	
Volume	169				169			169	
PM Peak	5:00 PM				5:00 PM			5:00 PM	
Volume	229				229			229	

Report generated on 11/25/2019 5:20 PM

Type of report: Tube Count - Speed Data

LOCATION: SPECIFIC LO CITY/STATE:	CATION:		erman &	Sheridar	ו											QC JOB #: 1 DIREC DATE: Nov	TION: SE
Start Time	1 15	16 20	21 25	26 30	31 35	36 40	41 45	46 50	51 55	56 60	61 65	66 70	71 75	76 999	Total	Pace Speed	Numbe in Pace
12:00 AM	0	0	3	3	0	0	0	0	0	0	0	0	0	0	6	21-30	6
01:00 AM	0	0	1	0	2	0	0	0	0	0	0	0	0	0	3	26-35	2
02:00 AM	0	0	1	1	0	0	0	0	0	0	0	0	0	0	2	21-30	2
03:00 AM	0	0	3	2	1	1	0	0	0	0	0	0	0	0	7	21-30	5
04:00 AM	0	0	1	3	3	1	0	0	0	0	0	0	0	0	8	26-35	6
05:00 AM	0	0	11	10	5	0	0	0	0	0	0	0	0	0	26	21-30	21
06:00 AM	0	1	13	29	2	0	0	0	0	0	0	0	0	0	45	21-30	42
07:00 AM	0	4	39	30	4	0	0	0	0	0	0	0	0	0	77	21-30	69
08:00 AM	0	13	39	27	4	0	0	0	0	0	0	0	0	0	83	21-30	66
09:00 AM	0	2	35	21	5	0	0	0	0	0	0	0	0	0	63	21-30	56
10:00 AM	0	12	45	18	0	0	0	0	0	0	0	0	0	0	75	21-30	63
11:00 AM	0	7	41	17	0	0	0	0	0	0	0	0	0	0	65	21-30	58
12:00 PM	0	8	42	19	4	0	0	0	0	0	0	0	0	0	73	21-30	61
01:00 PM	0	15	38	25	2	0	0	0	0	0	0	0	0	0	80	21-30	63
02:00 PM	0	9	50	31	2	0 0	0	0	Ő	0	0 0	0	0	0	92	21-30	81
03:00 PM	0	11	69	31	5	0	Ö	0	0	1	Ő	0	0	0	117	21-30	100
04:00 PM	0	20	59	43	2	0	0	0	0	0	0	0	0	0	124	21-30	100
05:00 PM	0	4	62	27	3	0	1	0	0	0	0	0	0	0	97	21-30	89
06:00 PM	0	5	39	27	2	0	0	0	0	0	0	0	0	0	73	21-30	66
07:00 PM	0	3	27	26	5	0	0	0	0	0	0	0	0	0	61	21-30	53
08:00 PM	0	2	24	20	4	0	0	0	0	0	0	0	0	0	52	21-30	46
09:00 PM	0	1	19	16	2	0	0	0	0	0	0	0	0	0	38	21-30	35
10:00 PM	0	0	2	6	1	0	0	0	0	0	0	0	0	0	9	21-30	8
10:00 PM 11:00 PM	0	0	6	4	4	1	0	0	0	0	0	0	0	0	15	21-30	10
Day Total	0	117	669	438	62	3	1	0	0	1	0	0	0	0			
Percent	0%	9.1%	51.8%	33.9%	4.8%	0.2%	0.1%	0%	0%	0.1%	0%	0%	0%	0%	1291	21-30	1107
AM Peak Volume	12:00 AM 0	8:00 AM 13	10:00 AM 45	7:00 AM 30	5:00 AM 5	1	0	0	12:00 AM 0	0	0	0	0	0	8:00 AM 83		
PM Peak Volume	12:00 PM 0	4:00 PM 20	3:00 PM 69	4:00 PM 43	3:00 PM 5	11:00 PM 1	5:00 PM 1	12:00 PM 0	12:00 PM 0	3:00 PM 1	12:00 PM 0	12:00 PM 0	12:00 PM 0	12:00 PM 0	4:00 PM 124		

Report generated on 11/25/2019 5:20 PM

SUMMARY - Tube Count - Speed Data

,							•••···										
LOCATION: Me SPECIFIC LOCA CITY/STATE: Ya	TION:		man & Sh	eridan												DI	# : 1512431 RECTION: S ov 19 2019
Speed Range	1 15	16 20	21 25	26 30	31 35	36 40	41 45	46 50	51 55	56 60	61 65	66 70	71 75	76 999	Total	Pace Speed	Number ir Pace
Grand Total Percent	0 0%	117 9.1%	669 51.8%	438 33.9%	62 4.8%	3 0.2%	1 0.1%	0 0%	0 0%	1 0.1%	0 0%	0 0%	0 0%	0 0%	1291	21-30	1107
Cumulative Percent	0%	9.1%	60.9%	94.8%	99.6%	99.8%	99.9%	99.9%	99.9%	100%	100%	100%	100%	100%			
ADT 1291															Me		
Comments:																	

Report generated on 11/25/2019 5:20 PM

SOURCE: Quality Counts, LLC (http://www.qualitycounts.net)

Quality Counts DATA THAT DRIVES COMMUNITIES

Type of report:	Tube Count -	Volume Data
Type of report.	rube count	Volunie Dutu

LOCATION: M SPECIFIC LOC/ CITY/STATE: Y		Sheridan						DAT	QC JOB #: 15124312 DIRECTION: SE E: Nov 19 2019 - Nov 19 2019
Start Time	19 Nov 19				Average Weekday Hourly Traffic	y Sat Sun		Average Week Hourly Traffic	Average Week Profile
12:00 AM	6				6			6	
01:00 AM	3				3			3	
02:00 AM	2				2			2	
03:00 AM	7				7			7	
04:00 AM	8				8			8	
05:00 AM	26				26			26	
06:00 AM	45				45			45	
07:00 AM	77				77			77	
08:00 AM	83				83			83	
09:00 AM	63				63			63	
10:00 AM	75				75			75	
11:00 AM	65				65			65	
12:00 PM	73				73			73	
01:00 PM	80				80	-		80	
02:00 PM	92				92	1		92	
03:00 PM	117				117			117	
04:00 PM	124				124			124	
05:00 PM	97				97			97	
06:00 PM	73				73			73	
07:00 PM	61				61			61	
08:00 PM	52				52			52	
09:00 PM	38				38			38	
10:00 PM	9				9	JMIN		9	
11:00 PM	15				15			15	
Day Total	1291				1291			1291	
% Weekday Average	100%								
% Week Average	100%				100%				
AM Peak	8:00 AM				8:00 AM			8:00 AM	
Volume	83				83			83	
PM Peak	4:00 PM				4:00 PM			4:00 PM	
Volume	124				124			124	

Report generated on 11/25/2019 5:20 PM

LOCATION: E Sherman St east of Meridian SPECIFIC LOCATION: CITY/STATE: Yamhill, OR

Start Time EB WB Total 12:00 AM 0 1 1 02:00 AM 0 1 1 03:00 AM 0 1 1 05:00 AM 0 1 1 05:00 AM 0 1 1 05:00 AM 6 0 6 07:00 AM 5 1 1 08:00 AM 6 2 9 10:00 PM 5 11 16 09:00 AM 5 12					
12:00 AM 0 0 0 01:00 AM 0 1 1 02:00 AM 0 0 0 03:00 AM 0 1 1 04:00 AM 0 1 1 04:00 AM 0 1 1 05:00 AM 0 1 1 06:00 AM 6 0 6 07:00 AM 13 1 14 08:00 AM 6 3 9 10:00 AM 5 2 7 10:00 AM 5 11 16 12:00 PM 7 8 15 10:00 AM 5 11 16 12:00 PM 7 8 15 01:00 PM 8 10 18 02:00 PM 8 10 18 03:00 PM 10 14 24 05:00 PM 10 3 13 07:00 PM 3 3 6 <th></th> <th></th> <th></th> <th></th> <th>Counts</th>					Counts
12:00 AM 0 0 0 01:00 AM 0 1 1 02:00 AM 0 0 0 03:00 AM 0 1 1 04:00 AM 0 1 1 04:00 AM 0 1 1 05:00 AM 0 1 1 06:00 AM 6 0 6 07:00 AM 13 1 14 08:00 AM 6 3 9 10:00 AM 5 2 7 10:00 AM 5 11 16 12:00 PM 7 8 15 10:00 AM 5 11 16 12:00 PM 7 8 15 01:00 PM 8 10 18 02:00 PM 8 10 18 03:00 PM 10 14 24 05:00 PM 10 3 13 07:00 PM 3 3 6 <th></th> <th>DA</th> <th>IA IHAI</th> <th>DRIVE</th> <th>S COMMUNITIES</th>		DA	IA IHAI	DRIVE	S COMMUNITIES
02:00 AM 0 0 PEAK HOUR (AM): 11:00 AM 03:00 AM 0 1 1 PEAK HOUR (AM): 11:00 AM 04:00 AM 0 1 1 PEAK HOUR (PM): 05:00 PM 05:00 AM 0 1 1 PEAK HOUR (PM): 05:00 PM 06:00 AM 6 0 6 0 07:00 AM 13 1 14 14 08:00 AM 14 1 15 AVERAGE SPEED: 09:00 AM 6 3 9 MODAL SPEED: 10:00 AM 5 2 7 MODAL SPEED: 11:00 AM 5 11 16 MEDIAN SPEED: 01:00 PM 7 8 15 MEDIAN SPEED: 01:00 PM 8 10 18 85th PERCENTILE: 03:00 PM 7 11 18 9 04:00 PM 4 15 19 POSTED SPEED: 05:00 PM 10 3 3 13 06:00 PM 3	12:00 AM	0	0	0	
03:00 AM 0 1 1 04:00 AM 0 1 1 05:00 AM 0 1 1 06:00 AM 6 0 6 07:00 AM 13 1 14 08:00 AM 14 1 15 AVERAGE SPEED: 09:00 AM 6 3 9 MODAL SPEED: 09:00 AM 5 2 7 MODAL SPEED: 10:00 AM 5 11 16 MIDAL SPEED: 11:00 AM 5 11 16 MODAL SPEED: 11:00 AM 5 11 16 MODAL SPEED: 10:00 PM 8 3 11 85th PERCENTILE: 03:00 PM 7 11 18 POSTED SPEED: 05:00 PM 4 15 19 POSTED SPEED: 05:00 PM 10 3 13 0 06:00 PM 10 3 13 0 08:00 PM 3 3	02:00 AM	0	0	0	PEAK HOUR (AM): 11:00 AM
05:00 AM 0 1 1 06:00 AM 6 0 6 07:00 AM 13 1 14 08:00 AM 14 1 15 AVERAGE SPEED: 09:00 AM 6 3 9 MODAL SPEED: 10:00 AM 5 2 7 MODAL SPEED: 11:00 AM 5 11 16 MEDIAN SPEED: 11:00 AM 5 11 16 MEDIAN SPEED: 01:00 PM 8 3 11 85th PERCENTILE: 03:00 PM 7 11 18 9 04:00 PM 4 15 19 POSTED SPEED: 05:00 PM 10 14 24 4 06:00 PM 10 3 13 0 08:00 PM 3 3 6 TOTAL TRUCKS: 09:00 PM 1 3 4 (Star 4 bar 10)	04:00 AM	0	1	1	
08:00 AM 14 1 15 AVERAGE SPEED: 09:00 AM 6 3 9 MODAL SPEED: 10:00 AM 5 2 7 MODAL SPEED: 11:00 AM 5 11 16 MEDIAN SPEED: 12:00 PM 7 8 15 MEDIAN SPEED: 01:00 PM 8 3 11 BSth PERCENTILE: 02:00 PM 8 10 18 BSth PERCENTILE: 03:00 PM 7 11 18 POSTED SPEED: 04:00 PM 4 15 19 POSTED SPEED: 05:00 PM 10 144 24 06:00 PM 10 3 13 07:00 PM 3 0 3 08:00 PM 3 3 6 TOTAL TRUCKS: 09:00 PM 1 3 4 (Star 4 thr; 1))	06:00 AM	6	0	6	
11:00 AM 5 11 16 12:00 PM 7 8 15 MEDIAN SPEED: 01:00 PM 8 3 11 18 02:00 PM 8 10 18 85th PERCENTILE: 03:00 PM 7 11 18 9 04:00 PM 4 15 19 POSTED SPEED: 05:00 PM 10 14 24 13 06:00 PM 10 3 13 13 07:00 PM 3 0 3 13 08:00 PM 3 3 4 (Class 4 ther, 12)	08:00 AM	14	1	15	AVERAGE SPEED:
12:00 PM 7 8 15 MEDIAN SPEED: 01:00 PM 8 3 11 3 02:00 PM 8 10 18 85th PERCENTILE: 03:00 PM 7 11 18 9 04:00 PM 4 15 19 POSTED SPEED: 05:00 PM 10 14 24 13 06:00 PM 10 3 13 13 07:00 PM 3 6 TOTAL TRUCKS: 08:00 PM 1 3 4 (Star 4 thr. 1))	10:00 AM	5	2	7	MODAL SPEED:
02:00 PM 8 10 18 85th PERCENTILE: 03:00 PM 7 11 18 9 04:00 PM 4 15 19 POSTED SPEED: 05:00 PM 10 14 24 9 06:00 PM 10 3 13 9 07:00 PM 3 0 3 13 07:00 PM 3 0 3 13 07:00 PM 3 4 TOTAL TRUCKS: 09:00 PM 1 3 4	12:00 PM	7	8	15	MEDIAN SPEED:
04:00 PM 4 15 19 POSTED SPEED: 05:00 PM 10 14 24	02:00 PM	8	10	18	85th PERCENTILE:
06:00 PM 10 3 13 07:00 PM 3 0 3 08:00 PM 3 6 TOTAL TRUCKS: 09:00 PM 1 3 4	04:00 PM	4	15	19	POSTED SPEED:
09:00 PM 1 3 4 (Generative 12)	06:00 PM 07:00 PM	10 3	3 0	13 3	
	09:00 PM	1	3	4	
1:00 PM 1 1 2				0 2	(Class 4 thru 13)
Day Total Percent 111 93 204		111 54.4%		204	

Report generated on 12/3/2019 2:06 PM

LOCATION: E Sherman St west of Meridian SPECIFIC LOCATION: CITY/STATE: Yamhill, OR

			-	
	DA	TA THAT	DRIVE	ES COMMUNITIES
Start Time 12:00 AM	EB	WB	Total	
01:00 AM 02:00 AM	0 0	1 0	1 0	PEAK HOUR (AM) : 07:00 AM
03:00 AM 04:00 AM	0	0	0	PEAK HOUR (PM): 05:00 PM
05:00 AM 06:00 AM	1 4	0 2	1 6	
07:00 AM 08:00 AM	14 4	4 5 5 7	18 9	AVERAGE SPEED:
09:00 AM 10:00 AM	3 4	5 7	8 11	MODAL SPEED:
11:00 AM 12:00 PM	8 10	4 6	12 16	MEDIAN SPEED:
01:00 PM 02:00 PM	7	9	16 11	85th PERCENTILE:
03:00 PM 04:00 PM	8 11	4 7	12 18	POSTED SPEED:
05:00 PM 06:00 PM	11 12 8	12 3	24 11	, OFLE SI LLD.
07:00 PM	2	1	3 4	TOTAL TRUCKS:
	2		4	
08:00 PM 09:00 PM	3 4	1 2	6	
08:00 PM		1 2 1 1 81		(Class 4 thru 13)

Report generated on 12/3/2019 2:06 PM

LOCATION: E North St east of Meridian SPECIFIC LOCATION: CITY/STATE: Yamhill, OR

Start Time 12:00 AM 01:00 AM 02:00 AM 03:00 AM 04:00 AM 05:00 AM 06:00 AM	EB 0 1 0 0 1 0 6	WB 1 2 0 0 0 0 0 0 0	Total 1 3 0 1 1 6	PEAK HOUR (AM): 08:00 AM PEAK HOUR (PM): 05:00 PM
07:00 AM 08:00 AM 09:00 AM 10:00 AM 11:00 AM 12:00 PM	8 13 8 2 6 3	3 1 2 3 4 3	11 14 10 5 10 6	AVERAGE SPEED: MODAL SPEED: MEDIAN SPEED:
01:00 PM 02:00 PM 03:00 PM 04:00 PM 05:00 PM 06:00 PM 07:00 PM	8 9 7 5 9 8 3	4 5 7 7 4 3	12 14 13 12 16 12 6	85th PERCENTILE: POSTED SPEED:
08:00 PM 09:00 PM 10:00 PM 11:00 PM Day Total	6 1 5 0 109	6 7 5 2 75	12 8 10 2 184	TOTAL TRUCKS: (Class 4 thru 13)
Percent	59.2%	40.8%	104	SQURCE: Quality Counts, U.C. (http://www.guality.counts.net)

Report generated on 12/3/2019 2:06 PM

LOCATION: E North St west of Meridian SPECIFIC LOCATION: CITY/STATE: Yamhill, OR

		-			
Start Time	DA			S COMMUNITIES	
Start Time 12:00 AM 01:00 AM	EB 0	WB 2 1	Total	S COMMUNITIES	
12:00 AM 01:00 AM 02:00 AM	0 1 0	2 1 0	2 2 0	PEAK HOUR (AM): 07:00 AM	
12:00 AM 01:00 AM 02:00 AM 03:00 AM 04:00 AM	0 1 0 0 1	2 1 0 0 0	2 2 0 0 1		
12:00 AM 01:00 AM 02:00 AM 03:00 AM 04:00 AM 05:00 AM	0 1 0 0	2 1 0 0 0 0	2 2 0 0 1 0	PEAK HOUR (AM): 07:00 AM PEAK HOUR (PM): 05:00 PM	
12:00 AM 01:00 AM 02:00 AM 03:00 AM 04:00 AM 05:00 AM 06:00 AM 07:00 AM	0 1 0 1 0 4 13	2 1 0 0 0 0 1 2	2 2 0 1 5 15	PEAK HOUR (PM): 05:00 PM	
12:00 AM 01:00 AM 02:00 AM 03:00 AM 04:00 AM 05:00 AM 06:00 AM 07:00 AM 08:00 AM 09:00 AM	0 1 0 1 0 4 13 4 2	2 1 0 0 0 1 2 4 4	2 2 0 1 5 15 8 6	PEAK HOUR (PM): 05:00 PM AVERAGE SPEED:	
12:00 AM 01:00 AM 02:00 AM 03:00 AM 04:00 AM 05:00 AM 06:00 AM 07:00 AM 09:00 AM 10:00 AM	0 1 0 1 0 4 13 4 2 5	2 1 0 0 0 1 2 4 4 1	2 2 0 1 5 15 8 6 6	PEAK HOUR (PM): 05:00 PM	
12:00 AM 01:00 AM 02:00 AM 03:00 AM 05:00 AM 05:00 AM 07:00 AM 07:00 AM 09:00 AM 10:00 AM 11:00 AM 12:00 PM	0 1 0 1 0 4 13 4 2 5 3 3 3	2 1 0 0 0 1 2 4 4 4 1 3 6	2 2 0 1 5 15 8 6 6 6 9	PEAK HOUR (PM): 05:00 PM AVERAGE SPEED:	
12:00 AM 01:00 AM 02:00 AM 03:00 AM 04:00 AM 06:00 AM 06:00 AM 07:00 AM 09:00 AM 10:00 AM 11:00 AM 12:00 PM 01:00 PM 02:00 PM	0 1 0 1 0 4 13 4 2 5 3 3 3 11	2 1 0 0 1 2 4 4 1 3 6 1	2 2 0 1 0 5 15 8 6 6 6 9 4 18	PEAK HOUR (PM): 05:00 PM AVERAGE SPEED: MODAL SPEED:	
12:00 AM 01:00 AM 02:00 AM 03:00 AM 05:00 AM 06:00 AM 06:00 AM 07:00 AM 09:00 AM 10:00 AM 10:00 AM 11:00 AM 12:00 PM 01:00 PM 02:00 PM 03:00 PM	0 1 0 1 0 4 13 4 2 5 3 3 3 11 1	2 1 0 0 1 2 4 4 1 3 6 1	2 2 0 1 0 5 15 8 6 6 6 9 4 18 7	PEAK HOUR (PM): 05:00 PM AVERAGE SPEED: MODAL SPEED: MEDIAN SPEED: 85th PERCENTILE:	
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Report generated on 12/3/2019 2:06 PM

<u>Appendix B</u>

Turning Movement Counts

QC JOB #: 15124301

DATE: Tue, Nov 19 2019

LOCATION: N Meridian St -- E North St CITY/STATE: Yamhill, OR

7 • 2 3 11 • 6		Peak 15-Min: 7: $ \begin{array}{c} & 0 \\ & 0 \\ & 0 \\ & 2 \\ & 0 \\ & 2 \\ & 0 \\ & 2 \\ & 41 \\ & 2 \\ & 93 \\ & 30 \\ & 0 \\ & 0 \\ & 1 \\ & 1 \\ & 0 \\ & 0 \\ & 1 \\ & 1 \\ & 0 \\ & 1 \\ & 1 \\ & 0 \\ & 1 \\ &$							5 AM	8:00 unts	AM			0 + 50 0 9.1 + 0		42 18 0 10 12 0 12 0 12	€ 0 ↔ ◆ 0 € 0 →	
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Report generated on 11/25/2019 5:21 PM

LOCATION: N Meridian St -- E North St QC JOB #: 15124302 DATE: Tue, Nov 19 2019 CITY/STATE: Yamhill, OR Peak-Hour: 4:10 PM -- 5:10 PM 1.5 134 156 1.9 • • 6 125 3 Peak 15-Min: 4:10 PM -- 4:25 PM ♣
16.7 0.8 0 ٠ . 4 **t** 16.7 🗰 10.3 15 🔹 5 • 29 6.7 🔶 0 🌛 6 . t 0 🍝 0.85 0 🍝 • 0 4 ٠ 0 🔹 0 🦡 € 19
♦ 15 12 🔸 7 🤉 5 € • • 145 12 0 • • 1.4 0 ŧ **♦** 1.2 Quality Counts DATA THAT DRIVES COMMUNITIES 151 162 0 0 0 . • 0 **t** 1 oto 4 1 🔸 ✤ 0 ♠ 07 **f** 0 2 **↑** 4 • 0 N/A N/A ÷ ÷ • t . N/A 🔸 🔹 N/A N/A 🔺 🕳 N/A 4 9 r, f ъ ħ ŧ ŧ c N/A N/A

5-Min Count Period		N Meri (North	dian St bound)		N Meridian St (Southbound)					rth St oound)			E No (Westl		Total	Hourly		
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2:05 PM	1	8	1	0	0	1	0	0	0	1	0	0	1	0	0	0	13	
2:10 PM	1	3	0	0	0	2	1	0	0	0	0	0	0	0	1	0	8	
2:15 PM	0	2	0	0	0	3	0	0	2	0	2	0	1	0	0	0	10	
2:20 PM	1	6	0	0	0	14	0	0	0	0	0	0	0	0	0	0	21	
2:25 PM	1	6	2	0	0	9	0	0	0	0	0	0	0	0	0	0	18	
2:30 PM	1	2	0	0	0	5	1	0	0	0	0	0	0	0	0	0	9	
2:35 PM	0	3	0	0	0	13	0	0	0	0	3	0	0	0	0	0	19	
2:40 PM	0	11	0	0	0	7	0	0	0	1	0	0	1	1	1	0	22	
2:45 PM	0	13	2	0	0	12	0	0	0	0	1	0	0	0	2	0	30	
2:50 PM	0	12	3	0	1	6	1	0	0	0	1	0	3	0	1	0	28	
2:55 PM	2	8	4	0	0	16	0	0	0	1	2	0	0	1	1	0	35	224
3:00 PM	0	12	0	0	0	5	0	0	0	0	0	0	0	2	0	0	19	232
3:05 PM	2	9	2	0	2	5	0	0	0	1	0	0	2	0	3	0	26	245
3:10 PM	0	8	0	0	0	13	1	0	0	0	0	0	1	0	2	0	25	262
3:15 PM	0	16	0	0	0	23	0	0	0	0	0	0	1	0	0	0	40	292
3:20 PM	0	15	1	0	1	19	1	0	0	0	0	0	2	0	1	0	40	311
3:25 PM	0	7	4	0	1	8	0	0	0	0	0	0	0	1	1	0	22	315
3:30 PM	0	6	0	0	0	13	0	0	0	0	0	0	1	0	0	0	20	326
3:35 PM	0	3	1	0	0	7	0	0	0	0	1	0	1	0	0	0	13	320
3:40 PM	1	15	1	0	0	11	0	0	0	0	0	0	1	0	0	0	29	327
3:45 PM	0	6	0	0	0	6	0	0	1	0	0	0	1	0	1	0	15	312
3:50 PM	0	13	0	0	0	9	1	0	0	0	0	0	0	0	0	0	23	307
3:55 PM	0	13	3	0	1	9	1	0	0	0	0	0	0	0	0	0	27	299
4:00 PM	1	11	2	0 0	1	10	1	0	0	0	0	0	0	1	1	0	28	308
4:05 PM	0	6	2	-	0	9	0	0	0	0	0	0	2	0	0		19	301
4:10 PM	1	11	0	0	0	16	1	0	1	0	2	0	3	1	1	0	37	313
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4:25 PM	0	8	1	0	1	13	0	0	0	0	1	0	1	0	0	0	25	298
4:30 PM 4:35 PM	0	9	1	0	0	13	1	0	1 0	0	0	0	3 0	1	1	0	30 18	308 313
4:35 PM 4:40 PM	0	11 12	0 1	0	0	4 10	2 2	0	0	0	1 0	0 0	0	0	0	0 0	26	313 310
4:40 PM 4:45 PM	0	9	1	0		10	2	0 0	2	0	0	0	3	0 1	0	0	26	310 318
4:45 PM 4:50 PM	0	9 7	0	0	0	8 11	-	0	2	0	0	0	3	0	1	0	23	318 316
4:50 PM 4:55 PM	2	8	0	0	0	7	0 0	0	0	0	0	0	2	0	1	0	19	316
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	0	18 24	1	0		12	0	0	0	0	1	0	2	0	0	0	35 41	315
5:05 PM	1	24	2	0	0	10	U	0	0	0	1	0	2	U	1	0	41	337

5-Min Count Period			dian St bound)				dian St bound)				rth St ound)				rth St bound)		Total	Hourly Totals
Beginning At	Left	Thru	Right	U	Left	Thru	Right	U	Left	Thru	Right	U	Left	Thru	Right	U		Totals
5:10 PM	1	9	0	0	0	8	2	0	1	0	0	0	2	0	0	0	23	323
5:15 PM	0	12	1	0	1	6	1	0	0	0	0	0	0	0	0	0	21	313
5:20 PM	0	20	1	0	0	9	0	0	0	0	0	0	3	2	0	0	35	317
5:25 PM	0	15	0	0	0	10	1	0	1	0	0	0	1	0	0	0	28	320
5:30 PM	1	14	3	0	0	8	1	0	0	0	0	0	0	1	0	0	28	318
5:35 PM	0	8	1	0	0	10	0	0	0	0	1	0	4	0	0	0	24	324
5:40 PM	2	8	0	0	0	10	0	0	1	0	0	0	1	0	0	0	22	320
5:45 PM	0	7	1	0	1	8	0	0	0	0	0	0	0	1	0	0	18	315
5:50 PM	0	12	2	0	0	6	0	0	0	0	0	0	1	0	0	0	21	315
5:55 PM	0	11	3	0	0	10	0	0	1	0	2	0	1	1	1	0	30	326
Peak 15-Min		North	bound			South	bound			Eastb	ound			West	bound		τ.	4-1
Flowrates	Left	Thru	Right	U	Left	Thru	Right	U	Left	Thru	Right	U	Left	Thru	Right	U	10	tal
All Vehicles	8	156	24	0	0	148	4	0	8	0	12	0	24	4	8	0	3	96
Heavy Trucks	0	4	0		0	4	4		0	0	0		0	0	4		1	.6
Buses																		
Pedestrians		4				4				0				4			1	2
Bicycles	0	2	0		0	0	0		0	0	0		0	0	0			2
Scooters																		
Comments:																		

Report generated on 11/25/2019 5:21 PM

Comments:

Report generated on 11/25/2019 5:21 PM

LOCATION: N Meridian St -- E Sherman St QC JOB #: 15124304 DATE: Tue, Nov 19 2019 CITY/STATE: Yamhill, OR Peak-Hour: 4:40 PM -- 5:40 PM 143 165 1.4 2.4 ♦ 130 7 Peak 15-Min: 5:20 PM -- 5:35 PM ÷ **★** 0 1.5 0 ٠ . 12 🔹 6 **t** 24 • 45 • • • • **t** 4.2 • 2.2 • 0.87 0 🍝 0 2 🍝 2 ٠ ٠ 0 🔹 0 🦡 **f** 19 **→** 10 **₽** 0 **→** 0 17 🔸 9 🤉 ↑ 4 ♦ • • 135 1 ● 0 ● 1.3 ♦ 2.2 r 0 ▲140 Quality Counts DATA THAT DRIVES COMMUNITIES ♦ 2.1 158 0 0 0 . • 0 **t** 1 oto 2 6 0 🍝 • 1 4 07 **f** 0 0 **↑** 1 • 0 N/A N/A ÷ ÷ • t . 🔹 N/A N/A 🔺 🛥 N/A N/A 🔹 1 9 f 7 ъ ŧ ٩ ŧ c N/A N/A

5-Min Count			idian St bound)				dian St		E Sherman St (Eastbound)						man St bound)		Tabal	Hourly
Period Beginning At	Left	Thru	Right	U	Left	Thru	bound) Right	U	Left	Thru	Right	U	Left	Thru	Right	U	Total	Totals
2:00 PM	1	2	0	0	0	6	0	0	1	0	0	0	0	0	0	0	10	
2:05 PM	Ō	10	õ	ŏ	Ő	2	Ő	Ő	Ō	Ő	Ő	Ő	ŏ	ŏ	Ő	ŏ	12	
2:10 PM	õ	6	1	õ	Ő	3	Õ	õ	Ő	õ	Õ	õ	Ő	õ	Õ	õ	10	
2:15 PM	Ō	2	ō	Ō	1	5	Ō	Ō	Ō	Ō	1	Ō	2	Ō	Ō	Ō	11	
2:20 PM	0	5	1	0	0	13	1	0	1	0	1	0	1	0	1	0	24	
2:25 PM	1	9	0	0	0	10	0	0	0	0	0	0	1	0	0	0	21	
2:30 PM	0	4	0	0	1	4	0	0	0	0	0	0	0	0	0	0	9	
2:35 PM	1	2	0	0	0	13	1	0	0	0	1	0	0	0	1	0	19	
2:40 PM	0	9	0	0	0	11	0	0	1	0	0	0	3	1	2	0	27	
2:45 PM	0	14	4	0	0	12	1	0	1	0	1	0	1	0	1	0	35	
2:50 PM	0	12	0	0	2	8	1	0	0	0	0	0	2	0	2	0	27	
2:55 PM	0	11	1	0	2	14	2	0	1	0	0	0	2	0	2	0	35	240
3:00 PM	0	13	1	0	1	4	0	0	0	0	0	0	0	0	1	0	20	250
3:05 PM	0	7	2	0	0	8	0	0	1	0	0	0	3	0	1	0	22	260
3:10 PM	2	9	1	0	1	13	0	0	0	0	0	0	2	0	1	0	29	279
3:15 PM	0	12	2	0	0	24	0	0	1	0	1	0	1	0	1	0	42	310
3:20 PM	0	13	0	0	0	26	0	0	1	0	0	0	4	0	1	0	45	331
3:25 PM	0	6	2	0	0	6	0	0	2	0	0	0	2	1	1	0	20	330
3:30 PM	2	5	0	0	0	13	1	0	0	0	0	0	1	0	0	0	22	343
3:35 PM	0	3	0	0	2	8	0	0	0	1	0	0	0	0	1	0	15	339
3:40 PM	0	14	1	0	1	9	0	0	1	0	2	0	0	0	2	0	30	342
3:45 PM	0	6	0	0	0	8	0	0	0	0	1	0	1	0	0	0	16	323
3:50 PM	0	8	1	0	0	8	2	0	2	0	0	0	0	0	1	0	22	318
3:55 PM	0	17 8	0	0	1	9 12	•	0	•	0	1	0	0	•	0	0	28 23	311 314
4:00 PM 4:05 PM	1 0	8 8	0	0 0	0	12	0 0	0 0	0	0	0 1	0 0	1 3	0 0	1 3	0 0	23	314 317
4:10 PM	0	5	0	0	0	23	1	0	0	0	0	0	0	0	2	0	31	319
4:10 PM	0	16	1	0	1	23 14	0	0	1	0	1	0	0	0	2	0	34	319
4:13 PM	0	10	1	0	0	14	0	0	0	0	0	0	3	0	4	0	28	294
4:25 PM	2	10	1	0	2	10	0	0	1	0	2	0	0	0	4	0	20	303
4:30 PM	Ő	7	0	0	ő	15	2	0	4	0	0	0	1	2	0	ő	31	303
4:35 PM	ő	7	0	0	Ő	5	0	0	1	0	0	0	1	0	1	ő	15	312
4:40 PM	0	9	0	0	0	12	0	0	0	0	0	0	1	0	3	0	25	307
4:45 PM	1	8	0	0	0	12	0	0	1	0	2	0	2	0	1	0	29	320
4:50 PM	Ō	5	ŏ	ŏ	ŏ	11	Ő	õ	Ō	ŏ	1	Ő	1	ŏ	2	ŏ	20	318
4:55 PM	ŏ	9	ŏ	ŏ	1	8	Ő	0	Ő	õ	Ō	Ő	1	ŏ	1	ŏ	20	310
5:00 PM	ŏ	12	õ	õ	2	15	õ	õ	1	õ	4	õ	Ō	õ	4	õ	38	325
5:05 PM	1	17	õ	õ	0	13	1	õ	1	õ	1	õ	1	õ	3	õ	38	338

5-Min Count Period			dian St bound)			N Meridian St (Southbound)					man St oound)			E Sher (West		Total	Hourly Totals	
Beginning At	Left	Thru	Right	U	Left	Thru	Right	U	Left	Thru	Right	U	Left	Thru	Right	U		Totais
5:10 PM	1	11	0	0	0	6	1	0	0	0	0	0	0	0	0	0	19	326
5:15 PM	0	10	0	0	0	6	3	0	0	0	0	0	5	0	2	0	26	318
5:20 PM	0	16	1	0	1	14	0	0	1	1	0	0	4	0	4	0	42	332
5:25 PM	0	14	0	0	1	10	0	0	0	0	0	0	0	0	1	0	26	329
5:30 PM	1	18	0	0	0	7	1	0	0	0	0	0	1	2	1	0	31	329
5:35 PM	0	6	0	0	2	14	0	0	2	1	1	0	3	0	2	0	31	345
5:40 PM	0	7	0	0	0	11	1	0	0	0	0	0	2	0	1	0	22	342
5:45 PM	0	10	1	0	0	8	0	0	0	0	1	0	0	0	0	0	20	333
5:50 PM	0	11	0	0	0	8	0	0	0	0	3	0	1	0	1	0	24	337
5:55 PM	0	13	0	0	2	11	0	0	0	0	1	0	0	1	0	0	28	345
Peak 15-Min		North	bound			South	bound			Eastb	ound			West	bound		τ.	4 - I
Flowrates	Left	Thru	Right	U	Left	Thru	Right	U	Left	Thru	Right	U	Left	Thru	Right	U	10	tal
All Vehicles	4	192	4	0	8	124	4	0	4	4	0	0	20	8	24	0	39	96
Heavy Trucks	0	12	0		0	0	0		0	0	0		0	0	0		1	2
Buses																		
Pedestrians		16				4				0				0				0
Bicycles Scooters	0	0	0		0	0	0		0	0	0		0	0	0		()
Comments:																		

Report generated on 11/25/2019 5:21 PM

<u>Appendix C</u>

Pedestrian Counts



Location: N Meridian St South of E North St Date: 11/19/2019 Time: 7:00 AM - 6:00 PM

Site Code: 15124321

		strians					
Start Time	Eastbound	Westbound					
7:00 AM	0	0					
7:05 AM	0	0					
7:10 AM	0	0					
7:15 AM	0	0					
7:20 AM	0	0					
7:25 AM	0	0					
7:30 AM	0	0					
7:35 AM	0	1					
7:40 AM	0	0					
7:45 AM	0	0					
7:50 AM	5	0					
7:55 AM	4	0					
8:00 AM	0	0					
8:05 AM	0	0					
8:10 AM	0	0					
8:15 AM	0	0					
8:20 AM	0	0					
8:25 AM	0	0					
8:30 AM	0	0					
8:35 AM	0	0					
8:40 AM	0	1					
8:45 AM	1	1					
8:50 AM	0	0					
8:55 AM	0	0					
9:00 AM	1	1					
9:05 AM	0	0					
9:10 AM	1	0					
9:15 AM	1	0					
9:20 AM	3	0					
9:25 AM	2	0					
9:30 AM	0	0					
9:35 AM	0	0					
9:40 AM	0	0					
9:45 AM	0	0					
9:50 AM	1	0					

	1	<u> </u>
9:55 AM	1	3
10:00 AM	1	0
10:05 AM	0	0
10:10 AM	0	1
10:15 AM	1	0
10:20 AM	0	0
10:25 AM	0	1
10:30 AM	0	0
10:35 AM	0	1
10:40 AM	0	2
10:45 AM	0	1
10:50 AM	1	3
10:55 AM	1	0
11:00 AM	0	0
11:05 AM	0	0
11:10 AM	2	2
11:15 AM	0	0
11:20 AM	0	0
11:25 AM	3	3
11:30 AM	2	0
11:35 AM	0	0
11:40 AM	0	2
11:45 AM	1	0
11:50 AM	1	0
11:55 AM	0	0
12:00 PM	0	1
12:05 PM	0	0
12:10 PM	0	1
12:15 PM	0	1
12:20 PM	0	0
12:25 PM	0	0
12:30 PM	0	0
12:35 PM	0	0
12:40 PM	0	0
12:45 PM		3
12:50 PM	0	0
12:55 PM	1	0
1:00 PM	0	0
1:05 PM		1
1:10 PM	0	3
1:10 PM	3	2
1:10 PM	4	0
1:25 PM	3	0
1:30 PM	1	0
1:35 PM	0	0
1:40 PM		0
1:40 PM	0	0
1:50 PM 1:55 PM		0
1:55 PIVI	0	0

2.00 DM	0	0
2:00 PM	0	0
2:05 PM	0	0
2:10 PM	0	4
2:15 PM	2	1
2:20 PM	0	0
2:25 PM	0	0
2:30 PM	2	2
2:35 PM	0	1
2:40 PM	0	3
2:45 PM	2	2
2:50 PM	0	0
2:55 PM	0	0
3:00 PM	0	0
3:05 PM	0	0
3:10 PM	0	0
3:15 PM	0	0
3:20 PM	0	0
3:25 PM	0	0
3:30 PM	0	0
3:35 PM	0	3
3:40 PM	0	0
3:45 PM	0	0
3:50 PM	0	0
3:55 PM	0	0
4:00 PM	0	1
4:05 PM	0	3
4:10 PM	0	3
4:15 PM	0	0
4:20 PM	1	0
4:25 PM	0	0
4:30 PM	3	2
4:35 PM	0	2
4:40 PM	0	0
4:45 PM	1	1
4:50 PM	0	1
4:55 PM	0	0
5:00 PM	1	0
5:05 PM	0	0
5:10 PM	0	0
5:15 PM	0	0
5:20 PM	1	0
5:25 PM	0	1
5:30 PM	0	0
5:35 PM	0	0
5:40 PM	0	0
5:40 PM	0	0
5:50 PM	0	0
5:55 PM	0	0
Total	<u> </u>	65
TULAI	דכ	60



Location: N Meridian St North of E Franklin St Date: 11/19/2019 Time: 7:00 AM - 6:00 PM

Site Code: 15124322

	Pedes	strians
Start Time	Eastbound	Westbound
7:00 AM	1	0
7:05 AM	1	0
7:10 AM	0	1
7:15 AM	0	1
7:20 AM	1	1
7:25 AM	1	0
7:30 AM	0	0
7:35 AM	0	1
7:40 AM	1	0
7:45 AM	1	0
7:50 AM	5	0
7:55 AM	4	0
8:00 AM	3	0
8:05 AM	0	0
8:10 AM	0	0
8:15 AM	1	0
8:20 AM	0	0
8:25 AM	1	0
8:30 AM	1	0
8:35 AM	1	0
8:40 AM	0	1
8:45 AM	1	0
8:50 AM	1	0
8:55 AM	0	1
9:00 AM	2	1
9:05 AM	1	0
9:10 AM	1	0
9:15 AM	2	1
9:20 AM	1	0
9:25 AM	1	0
9:30 AM	0	0
9:35 AM	0	0
9:40 AM	0	0
9:45 AM	0	0
9:50 AM	1	0
9:55 AM	3	3
10:00 AM	0	0
10:05 AM	0	0
10:10 AM	0	1

10:15 AM	1	0
10:20 AM	0	0
10:25 AM	0	0
10:30 AM	0	0
10:35 AM	0	0
10:40 AM	1	3
10:45 AM	0	0
10:50 AM	0	3
10:55 AM	1	0
11:00 AM	1	0
11:05 AM	0	0
11:10 AM	2	2
11:15 AM	0	0
11:20 AM	0	0
11:25 AM	2	2
11:30 AM	2	0
11:35 AM	0	0
11:40 AM	1	2
11:45 AM	1	0
11:45 AM	0	0
11:55 AM	0	1
12:00 PM	0	
		1
12:05 PM	0	0
12:10 PM	0	1
12:15 PM	0	1
12:20 PM	0	0
12:25 PM	0	0
12:30 PM	0	0
12:35 PM	0	0
12:40 PM	0	0
12:45 PM	0	2
12:50 PM	0	0
12:55 PM	1	0
1:00 PM	0	0
1:05 PM	0	0
1:10 PM	0	2
1:15 PM	4	2
1:20 PM	1	0
1:25 PM	0	0
1:30 PM	1	0
1:35 PM	0	0
1:40 PM	0	0
1:45 PM	1	0
1:50 PM	0	0
1:55 PM	0	0
2:00 PM	0	0
2:00 PM 2:05 PM		
	0	0
2:10 PM	1	4
2:15 PM	0	1
2:20 PM	0	0
2:25 PM	0	1
2:30 PM	1	0
2:35 PM	0	0

2:40 PM	0	2
2:45 PM	2	1
2:50 PM	3	1
2:55 PM	1	1
3:00 PM	0	0
3:05 PM	0	0
3:10 PM	0	1
3:15 PM	0	1
3:20 PM	0	1
3:25 PM	0	0
3:30 PM	0	0
3:35 PM	1	5
3:40 PM	1	1
3:45 PM	0	0
3:50 PM	1	1
3:55 PM	0	0
4:00 PM	0	3
4:05 PM	1	4
4:10 PM	0	3
4:15 PM	2	1
4:20 PM	2	0
4:25 PM	0	3
4:30 PM	4	2
4:35 PM	0	2
4:40 PM	0	0
4:45 PM	1	1
4:50 PM	0	1
4:55 PM	0	2
5:00 PM	0	1
5:05 PM	1	0
5:10 PM	0	0
5:15 PM		0
5:20 PM	1	0
5:25 PM	0	0
5:30 PM		0
5:35 PM		0
5:40 PM	0	1
5:45 PM		0
5:50 PM	0	0
5:55 PM	0	1
Total	79	80



Location: N Meridian St South of E Franklin St Date: 11/19/2019 Time: 7:00 AM - 6:00 PM Site Code: 15124323

	Pedestrians	
Start Time	Eastbound	Westbound
7:00 AM	2	1
7:05 AM	0	0
7:10 AM	0	0
7:15 AM	0	0
7:20 AM	0	0
7:25 AM	0	0
7:30 AM	0	0
7:35 AM	1	0
7:40 AM	1	0
7:45 AM	1	0
7:50 AM	4	0
7:55 AM	0	0
8:00 AM	0	0
8:05 AM	0	0
8:10 AM	0	0
8:15 AM	0	0
8:20 AM	0	0
8:25 AM	0	0
8:30 AM	0	0
8:35 AM	0	0
8:40 AM	0	0
8:45 AM	0	0
8:50 AM	1	0
8:55 AM	0	0
9:00 AM	0	0
9:05 AM	0	0
9:10 AM	0	0
9:15 AM	1	1
9:20 AM	0	0
9:25 AM	0	0
9:30 AM	0	0
9:35 AM	0	0
9:40 AM	0	0
9:45 AM	0	0
9:50 AM	0	0

9:55 AM	0	0
10:00 AM	0	0
10:05 AM	0	0
10:10 AM	0	0
10:15 AM	1	0
10:20 AM	0	2
10:25 AM	0	0
10:30 AM	1	0
10:35 AM	0	0
10:40 AM	0	1
10:45 AM	0	0
10:50 AM	0	0
10:55 AM	0	1
11:00 AM	0	0
11:05 AM	0	0
11:10 AM	0	0
11:15 AM	0	0
11:20 AM	0	0
11:25 AM	0	0
11:30 AM	0	1
11:35 AM	0	1
11:40 AM	0	0
11:45 AM	2	0
11:50 AM	1	0
11:55 AM	1	0
12:00 PM	0	0
12:05 PM	0	0
12:10 PM	0	0
12:15 PM	0	0
12:20 PM	0	1
12:25 PM	0	0
12:30 PM	0	0
12:35 PM	0	1
12:40 PM	0	0
12:45 PM	0	1
12:50 PM	0	0
12:55 PM	0	0
1:00 PM	1	0
1:05 PM	0	0
1:10 PM	1	0
1:15 PM	0	2
1:20 PM	0	1
1:25 PM	1	0
1:30 PM	0	0
1:35 PM	0	0
1:40 PM	0	0
1:45 PM	0	1
1:50 PM	0	0
1:55 PM	0	0
1.55 FIVI	0	U U

2.00.014	0	
2:00 PM	0	0
2:05 PM	1	0
2:10 PM	0	0
2:15 PM	0	0
2:20 PM	1	0
2:25 PM	0	0
2:30 PM	0	0
2:35 PM	1	0
2:40 PM	0	0
2:45 PM	1	0
2:50 PM	0	0
2:55 PM	1	0
3:00 PM	0	0
3:05 PM	0	0
3:10 PM	0	0
3:15 PM	0	0
3:20 PM	0	0
3:25 PM	0	0
3:30 PM	0	0
3:35 PM	0	1
3:40 PM	0	0
3:45 PM	1	0
3:50 PM	0	0
3:55 PM	0	0
4:00 PM	0	0
4:05 PM	0	2
4:10 PM	0	1
4:15 PM	0	0
4:20 PM	0	0
4:25 PM	0	1
4:30 PM	0	0
4:35 PM	0	0
4:40 PM	0	0
4:45 PM	0	0
4:50 PM		0
4:55 PM	0	0
5:00 PM	0	0
5:05 PM	0	1
5:10 PM	0	0
5:15 PM	0	0
5:20 PM	0	0
5:25 PM	0	0
5:30 PM	0	0
5:35 PM	0	0
5:40 PM	0	0
5:45 PM	0	1
5:50 PM	1	0
5:55 PM	0	0
Total	27	22



Location: N Meridian St North of E Sherman St Date: 11/19/2019 Time: 7:00 AM - 6:00 PM Site Code: 15124324

	Pedestrians	
Start Time	Eastbound	Westbound
7:00 AM	2	1
7:05 AM	0	0
7:10 AM	1	0
7:15 AM	0	0
7:20 AM	1	0
7:25 AM	0	0
7:30 AM	0	0
7:35 AM	1	0
7:40 AM	1	0
7:45 AM	5	0
7:50 AM	8	1
7:55 AM	3	0
8:00 AM	2	0
8:05 AM	2	0
8:10 AM	1	0
8:15 AM	3	0
8:20 AM	0	0
8:25 AM	0	0
8:30 AM	0	0
8:35 AM	0	0
8:40 AM	0	0
8:45 AM	1	1
8:50 AM	1	0
8:55 AM	1	0
9:00 AM	2	0
9:05 AM	0	0
9:10 AM	0	0
9:15 AM	4	2
9:20 AM	2	0
9:25 AM	3	0
9:30 AM	0	1
9:35 AM	0	0
9:40 AM	0	0
9:45 AM	0	0
9:50 AM	0	1

9:55 AM	0	0
10:00 AM	0	0
10:05 AM	0	0
10:10 AM	0	1
10:15 AM	0	0
10:20 AM	0	0
10:25 AM	2	2
10:30 AM	0	2
10:35 AM	0	1
10:40 AM	3	3
10:45 AM	2	1
10:50 AM	0	1
10:55 AM	0	0
11:00 AM	0	0
11:05 AM	0	0
11:10 AM	0	0
11:15 AM	0	0
11:20 AM	1	1
11:25 AM	0	0
11:30 AM	0	3
11:35 AM	1	0
11:40 AM	0	0
11:45 AM	2	1
11:50 AM	1	0
11:55 AM	1	0
12:00 PM	0	0
12:05 PM	0	0
12:10 PM	0	1
12:15 PM	0	0
12:20 PM	0	1
12:25 PM	0	0
12:30 PM	0	0
12:35 PM	0	1
12:40 PM	0	1
12:45 PM	0	1
12:50 PM	0	0
12:55 PM	0	0
1:00 PM	0	0
1:05 PM	1	1
1:10 PM	0	2
1:15 PM	0	1
1:20 PM	3	3
1:25 PM	0	3
1:30 PM	0	0
1:35 PM	0	0
1:40 PM	0	0
1:45 PM	0	0
1:50 PM	1	0
1:55 PM	2	0
1.55110	-	U U

2:00 PM	1	0
2:00 PM	0	0
2:03 PM		0
2:10 PM 2:15 PM		
2:15 PM 2:20 PM	0	1
2:25 PM	0	0
2:30 PM	0	0
2:35 PM	0	0
2:40 PM	1	3
2:45 PM	0	2
2:50 PM	0	0
2:55 PM	0	1
3:00 PM	0	1
3:05 PM	1	1
3:10 PM	0	1
3:15 PM	0	1
3:20 PM	1	0
3:25 PM	0	0
3:30 PM	0	0
3:35 PM	0	0
3:40 PM	0	0
3:45 PM	0	0
3:50 PM	1	0
3:55 PM	1	1
4:00 PM	0	1
4:05 PM	0	2
4:10 PM	0	2
4:15 PM	0	2
4:20 PM	0	1
4:25 PM	0	0
4:30 PM	0	1
4:35 PM	0	0
4:40 PM	0	0
4:45 PM	0	0
4:50 PM	0	0
4:55 PM		2
5:00 PM	2	1
5:05 PM	0	0
5:10 PM		1
5:15 PM	0	0
5:20 PM	0	0
5:25 PM	0	0
5:30 PM	0	1
5:35 PM		0
5:40 PM	0	1
5:45 PM	0	2
5:50 PM	0	0
5:55 PM	0	0
Total	74	68
iotai	/4	00



Location: N Meridian St South of E Sherman St Date: 11/19/2019 Time: 7:00 AM - 6:00 PM Site Code: 15124325

	Pedestrians	
Start Time	Eastbound	Westbound
7:00 AM	0	0
7:05 AM	0	0
7:10 AM	0	0
7:15 AM	0	0
7:20 AM	0	0
7:25 AM	0	0
7:30 AM	0	0
7:35 AM	0	0
7:40 AM	1	0
7:45 AM	0	0
7:50 AM	1	0
7:55 AM	3	0
8:00 AM	0	1
8:05 AM	0	0
8:10 AM	0	1
8:15 AM	0	0
8:20 AM	0	0
8:25 AM	0	0
8:30 AM	0	0
8:35 AM	1	0
8:40 AM	0	0
8:45 AM	0	0
8:50 AM	0	0
8:55 AM	0	1
9:00 AM	0	0
9:05 AM	2	0
9:10 AM	0	0
9:15 AM	0	1
9:20 AM	1	0
9:25 AM	0	0
9:30 AM	0	0
9:35 AM	0	0
9:40 AM	0	0
9:45 AM	0	0
9:50 AM	1	1

9:55 AM	1	0
10:00 AM	0	1
10:05 AM	0	3
10:10 AM	0	0
10:15 AM	0	0
10:20 AM	0	0
10:25 AM	0	2
10:30 AM	0	0
10:35 AM	1	1
10:40 AM	1	1
10:45 AM	1	0
10:50 AM	0	0
10:55 AM	0	0
11:00 AM	2	1
11:05 AM	0	0
11:10 AM	0	0
11:15 AM	0	0
11:20 AM	0	0
11:25 AM	0	0
11:30 AM	2	2
11:35 AM	0	2
11:40 AM	0	0
11:45 AM	0	0
11:50 AM	2	0
11:55 AM	1	0
12:00 PM	0	0
12:05 PM	0	0
12:10 PM	0	0
12:15 PM	0	0
12:20 PM	0	0
12:25 PM	0	0
12:30 PM	0	0
12:35 PM	0	0
12:40 PM	0	0
12:45 PM	0	0
12:50 PM	0	0
12:55 PM	0	0
1:00 PM	0	0
1:05 PM	0	1
1:10 PM	0	1
1:15 PM	0	0
1:20 PM	2	1
1:25 PM	0	1
1:30 PM	0	0
1:35 PM	0	0
1:40 PM	1	0
1:45 PM	0	0
1:50 PM	0	0
1:55 PM	0	0
	-	-

2.00.014		
2:00 PM	1	0
2:05 PM	0	0
2:10 PM	0	0
2:15 PM	0	1
2:20 PM	0	0
2:25 PM	0	0
2:30 PM	0	0
2:35 PM	1	0
2:40 PM	0	0
2:45 PM	0	0
2:50 PM	0	0
2:55 PM	0	0
3:00 PM	0	2
3:05 PM	1	0
3:10 PM	0	0
3:15 PM	1	0
3:20 PM	0	0
3:25 PM	0	0
3:30 PM	0	0
3:35 PM	0	0
3:40 PM	0	0
3:45 PM	0	0
3:50 PM	0	0
3:55 PM	2	0
4:00 PM	0	0
4:05 PM	0	0
4:10 PM	3	0
4:15 PM	0	0
4:20 PM	0	0
4:25 PM	0	0
4:30 PM	0	3
4:35 PM	0	0
4:40 PM	0	0
4:45 PM	0	0
4:50 PM	0	1
4:55 PM	0	0
5:00 PM	0	1
5:05 PM	0	0
5:10 PM		0
5:15 PM	0	0
5:20 PM	0	1
5:25 PM	0	1
5:30 PM	0	2
5:35 PM		0
5:40 PM	1	0
5:45 PM	1	1
5:50 PM	0	0
5:50 PM	0	0
Total	35	35
iotai	55	55



Location: N Meridian St North of E Sheridan St Date: 11/19/2019 Time: 7:00 AM - 6:00 PM Site Code: 15124326

	Pedestrians	
Start Time	Eastbound	Westbound
7:00 AM	0	0
7:05 AM	0	0
7:10 AM	0	0
7:15 AM	0	0
7:20 AM	0	0
7:25 AM	0	0
7:30 AM	1	0
7:35 AM	0	0
7:40 AM	1	0
7:45 AM	0	1
7:50 AM	2	0
7:55 AM	1	0
8:00 AM	0	0
8:05 AM	0	0
8:10 AM	1	0
8:15 AM	0	0
8:20 AM	0	0
8:25 AM	0	0
8:30 AM	0	0
8:35 AM	0	0
8:40 AM	0	0
8:45 AM	0	0
8:50 AM	1	1
8:55 AM	0	2
9:00 AM	0	1
9:05 AM	0	0
9:10 AM	2	0
9:15 AM	1	0
9:20 AM	1	0
9:25 AM	0	0
9:30 AM	0	0
9:35 AM	0	1
9:40 AM	0	0
9:45 AM	0	0
9:50 AM	0	1

9:55 AM 0 0 10:00 AM 2 0 10:05 AM 0 2 10:10 AM 0 0 10:15 AM 0 1 10:20 AM 0 1 10:20 AM 0 1 10:20 AM 0 1 10:20 AM 0 1 10:30 AM 1 1 10:35 AM 0 0 10:40 AM 3 0 10:45 AM 0 0 10:50 AM 0 0 10:55 AM 0 0	
10:05 AM 0 2 10:10 AM 0 0 10:15 AM 0 1 10:20 AM 0 1 10:25 AM 0 1 10:30 AM 1 1 10:35 AM 0 0 10:40 AM 3 0 10:45 AM 0 0 10:50 AM 0 0	
10:10 AM 0 0 10:15 AM 0 1 10:20 AM 0 1 10:25 AM 0 1 10:30 AM 1 1 10:35 AM 0 0 10:40 AM 3 0 10:45 AM 0 0 10:50 AM 0 0	
10:15 AM 0 1 10:20 AM 0 1 10:25 AM 0 1 10:30 AM 1 1 10:35 AM 0 0 10:40 AM 3 0 10:45 AM 0 0 10:50 AM 0 0	
10:20 AM 0 1 10:25 AM 0 1 10:30 AM 1 1 10:35 AM 0 0 10:40 AM 3 0 10:45 AM 0 0 10:50 AM 0 0	
10:25 AM 0 1 10:30 AM 1 1 10:35 AM 0 0 10:40 AM 3 0 10:45 AM 0 0 10:50 AM 0 0	
10:30 AM 1 1 10:35 AM 0 0 10:40 AM 3 0 10:45 AM 0 0 10:50 AM 0 0	
10:35 AM 0 0 10:40 AM 3 0 10:45 AM 0 0 10:50 AM 0 0	
10:40 AM 3 0 10:45 AM 0 0 10:50 AM 0 0	
10:45 AM 0 0 10:50 AM 0 0	
10:50 AM 0 0	
11:00 AM 2 2	
11:05 AM 0 0	
11:10 AM 0 1	
11:15 AM 2 0	
11:20 AM 0 1	
11:25 AM 0 1	
11:30 AM 1 1	_
11:35 AM 0 1	
11:40 AM 0 1	
11:45 AM 0 0	_
11:50 AM 2 1	
11:55 AM 0 1	_
12:00 PM 0 0	
12:05 PM 1 0	
12:10 PM 0 0	
12:15 PM 0 1	
12:20 PM 0 1	
12:25 PM 0 0	_
12:30 PM 2 0	
12:35 PM 2 0	
12:40 PM 0 0	
12:45 PM 0 0	
12:50 PM 0 1	
12:55 PM 0 1	
1:00 PM 0 0	
1:05 PM 0 1	
1:10 PM 0 1	
1:10 PM 0 1 1:15 PM 3 2	
1:13 PM 5 2 1:20 PM 1 0	
1:25 PM 0 0	
1:30 PM 0 0	
1:30 PM 0 0 1:35 PM 1 0	
1:30 PM 0 0 1:35 PM 1 0 1:40 PM 0 0	
1:30 PM 0 0 1:35 PM 1 0 1:40 PM 0 0 1:45 PM 0 0	
1:30 PM 0 0 1:35 PM 1 0 1:40 PM 0 0	

2:00 PM	0	0
2:00 PM	0	2
2:03 PM	3	0
2:10 PM	0	0
2:13 PM	0	0
		0
2:25 PM	0	
2:30 PM	1	0
2:35 PM	0	1
2:40 PM	0	1
2:45 PM	0	2
2:50 PM	0	2
2:55 PM	0	0
3:00 PM	0	1
3:05 PM	1	3
3:10 PM	0	0
3:15 PM	0	0
3:20 PM	0	0
3:25 PM	0	1
3:30 PM	0	3
3:35 PM	0	0
3:40 PM	0	3
3:45 PM	2	0
3:50 PM	0	0
3:55 PM	1	2
4:00 PM	0	0
4:05 PM	0	1
4:10 PM	1	1
4:15 PM	2	2
4:20 PM	0	0
4:25 PM	0	0
4:30 PM	0	0
4:35 PM	2	0
4:40 PM	0	0
4:45 PM	0	0
4:50 PM	0	0
4:55 PM	0	1
5:00 PM	2	1
5:05 PM	0	0
5:10 PM		0
5:15 PM	0	0
5:20 PM	0	0
5:25 PM	0	2
5:30 PM	0	0
5:35 PM		1
5:40 PM	0	2
5:45 PM		0
5:50 PM	0	0
5:55 PM	0	0
Total	49	64
iotai	73	04

<u>Appendix D</u>

Critical Crash Rate Calculations & Crash Data

General &	Site Information
Analyst:	Nys
Agency/Company:	Greenlight Engineering
Date:	2/2/2020
Project Name:	Meridian Pedestrian Study

		Intersection	on Crash Data				
	Intersection			Year			
Intersection	Туре	2014	2015	2016	2017	2018	Total
Meridian/North	Urban 4ST	0	1	0	1	0	2
Meridian/Franklin	Urban 3ST	0	0	0	0	0	0
Meridian/Sherman	Urban 4ST	0	0	0	2	0	2
Meridian/Sheridan	Urban 4ST	0	0	0	0	0	0
	Total	0	1	0	3	0	4

Intersection Po	opulation Type	e Crash Rate		
Average Crash	Rate per inte	rsection type		
Intersection Pop. Type	Sum of Crashes	Sum of 5- year MEV	Avg Crash Rate for Ref Pop.	INT in Pop
Rural 3SG	0	0		
Rural 3ST	0	0		
Rural 4SG	0	0		
Rural 4ST	0	0		
Urban 3ST	0	5	0.0000	1
Urban 3SG	0	0		
Urban 4ST	4	16	0.2435	3
Urban 4SG	0	0		

			Critical Rate	e Calculation				
Intersection	AADT Entering Intersection	5-year MEV	Crash Total	Intersection Population Type	Intersection Crash Rate	Reference Population Crash Rate	Critical Rate	Over Critical
Meridian/North	3,000	5.5	2	Urban 4ST	0.37	APM Exhibit 4-1	0.41	Under
Meridian/Franklin	3,000	5.5	0	Urban 3ST	0.00	0.00	0.29	Under
Meridian/Sherman	3,000	5.5	2	Urban 4ST	0.37	APM Exhibit 4-1	0.41	Under
Meridian/Sheridan	3,000	5.5	0	Urban 4ST	0.00	APM Exhibit 4-1	0.41	Under

CDS380 01/26/2020 CITY OF NEWBERG, YAMHILL COUNTY

OREGON., DEPARTMENT OF TRANSPORTATION - TRANSPORTATION DEVELOPMENT DIVISION TRANSPORTATION DATA SECTION - CRASH ANANLYSIS AND REPORTING UNIT URBAN NON-SYSTEM CRASH LISTING

MERIDIAN ST and Intersectional Crashes at MERIDIAN ST, City of Newberg, Yamhill County, 01/01/2009 to 12/31/2018

27 = 31 of 91 Crash records shown.

P R J S W DATE E A U I C O DAY E L G N H R TIME		CLASS DIST FROM	CITY STREET FIRST STREET SECOND STREET	RD CHAR DIRECT	INT-TYPE (MEDIAN) LEGS	INT-REL TRAF-	OFFRD RNDBT	WTHR C SURF C	CRASH	SPCL USE TRLR QTY OWNER	MOVE FROM	PRTC INJ	A S G E LICNS	US PED			
D C S V L K LAT	1 1 0 0 / 1 0	FONG	LRS mo merutum	LOCTN	(#Tranes)	CONTL	DRVWY	LIGHT	SVRTY	V# TYPE	DL MILLI	P# TYPE SVRTY	Y E X RES	LOC	ERROR	ACT EVENT	CAUSE
5 5 5	2 127			s S	(NONE)	UNKNOMN	a z				N-M					018	
1P 45	18 2.54	-122 58		0.7	(02)		N	DAY F	PDO	PSNGR CAR		01 DRVR NONE	00 Unk UNK UNK		000	000	00
	ΥT	9T.T								02 NONE 9 N/A PSNGR CAR	STRGHT N -S	01 DRVR NONE	00 Unk UNK UNK		000	000	00
N N N 10	10/20/2015	17	MERIDIAN ST	INTER	CROSS	Ν	R	CLR A	ANGL-OTH	01 NONE 0	TURN-L						02
DI	0		NORTH ST	CN		STOP SIGN	Ν	DRY T	TURN	PRVTE	N- W					015	00
8A 45	18 15.97	-122 58 13 88		03	o		Ν	DAY I	ĹNI	PSNGR CAR		01 DRVR INJB	42 F OR-Y OR<25	Y 25	028	000	02
	-	р Л.								02 NONE 0 PRVTE PSNGR CAR	STRGHT N -S	01 DRVR INJC	26 F OR-Y OR<25	<i>د</i> 55	000	000	000
N N N 09	09/13/2017	17	MERIDIAN ST	INTER	CROSS	Ν	N	CLR A	ANGL-OTH	01 NONE 9	TURN-L						02
ME	0		NORTH ST	N		STOP SIGN	N	DRY T	TURN	N/A	N- W					000	00
1P 45	18 15.97	-122 58		04	0		Z	DAY F	PDO	UNKNOMN		01 DRVR NONE	00 Unk UNK UNK		000	000	00
	÷	0								02 NONE 9 N/A PSNGR CAR	STRGHT S -N	01 DRVR NONE	ANU ANU ANU 00		000	000	00
N N 08.	08/14/2009	17	MERIDIAN ST	STRGHT		Ā	Y	CLR	PRKD MV	01 NONE 0	STRGHT						27
FR	30	(NORTH ST	ß	(NONE)	UNKNOWN	N	DRY S	SS-0	PRVTE	N- S					000	00
04- 04-	18 6999999	-122 58 13 98		05	(02)		Z	DAY I	LNJ	PSNGR CAR		01 DRVR INJB	56 F OR-Y OR<25	Y 25	016,080	000	27
1										02 NONE 0 PRVTE PSNGR CAR	PRKD-P S -N					008	00
N N 04.	04/13/2011	16	MERIDIAN ST	INTER	CROSS	Ν	N	CLR A	ANGL-OTH	01 NONE 0	STRGHT					053	03
WE	0		SHERIDAN ST	CN		STOP SIGN	z	DRY A	ANGL	PRVTE	Ш – М					000 053	00
1P 45 7	18 0601758	-122 58 14.1164576		02	0		Ν	DAY F	PDO	PSNGR CAR		01 DRVR NONE	18 M OR-Y OR<25	Y 25	021	000	03
										02 NONE PRVTE	STRGHT S -N					000	00
										PSNGR CAR		01 DRVR NONE	21 F OR-Y OR<25	Y 25	000	000	00

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CITY OF NEWBERG, YAMHILL COUNTY

OREGON.. DEPARTMENT OF TRANSPORTATION - TRANSPORTATION DEVELOPMENT DIVISION TRANSPORTATION DATA SECTION - CRASH ANALNSIS AND REPORTING UNIT URBAN NON-SYSTEM CRASH LISTING

MERIDIAN ST and Intersectional Crashes at MERIDIAN ST, City of Newberg, Yamhill County, 01/01/2009 to 12/31/2018

P RJS EAUIC ELGNH	W DATE O DAY R TIME	CLASS DIST FROM	CITY STREET FIRST STREET SECOND STREET	RD CHAR DIRECT	INT-TYPE (MEDIAN) LEGS	: INT-REL TRAF-	OFFRD RNDBT	WTHR C SURF C	CRASH COLL	SPCL USE TRLR QTY OWNER	MOVE FROM	PRTC INJ	A S G E LICNS	IS PED			
D C S V L Y N N	K LAT 11/16/2011	17 17	LRS MERIDIAN ST	LOCTN STRGHT	(#Tranes)	CONTL	DRVWY Y	LIGHT S RAIN F	SVRTY PRKD MV	V# TYPE 01 NONE 0	TO STRGHT	P# TYPE SVRTY	Y E X RES	LOC	ERROR	ACT EVENT	CAUSE 27,01
	WE	75	SHERIDAN ST	ß	(NONE)	UNKNOWN	N	WET S	SS-0	PRVTE	N -S					000	00
		-122 58		0.7	(02)		N	DAWN F	ODd	PSNGR CAR		01 DRVR NONE	17 F OR-Y OR<25	<u>م</u>	047,080	017	27,01
	T C Z D D D D D D D D D D D D D D D D D D	000621.4T	٥							02 NONE 0 PRVTE PSNGR CAR	PRKD-P N -S					008	00
N N N	08/01/2017	17	MERIDIAN ST	INTER	3-LEG	Ν	N	CLR A	ANGL-OTH	01 NONE 9	STRGHT						02
	ΠL	0	SHERMAN ST	CN		STOP SIGN	Ν	DRY A	ANGL	N/A	N -S					000	00
	8Å 45 18 10.01	-122 58 14.09		03	0		И	DAY F	ODd	PSNGR CAR		01 DRVR NONE	00 Unk UNK		000	000	00
										02 NONE 9 N/A PSNGR CAR	STRGHT W -E	01 DRVR NONE	00 UNK UNK		000	000	00
N N N N	N 08/14/2017	17	MERIDIAN ST	INTER	3-LEG	Ν	N	CLR C	0-1 L-TURN	L-TURN 01 NONE 9	TURN-L						02,08
	MO	0	SHERMAN ST	CN		STOP SIGN	Ν	DRY T	TURN	N/A	M- S					000	00
	12P 45 18 10.01			10	0		N	DAY F	PDO	PSNGR CAR		01 DRVR NONE	00 Unk UNK UNK		000	000	00
		ло. 7 т								02 NONE 9 N/A PSNGR CAR	STRGHT N -S	01 DRVR NONE	XNU XUU 00		000	000	00
N N N N	N 11/19/2014	19	MERIDIAN ST	INTER	CROSS	N	N	CLR A	ANGL-OTH	01 NONE 0	STRGHT						02
	WE	0	SIERRA VISTA ST	CN		STOP SIGN	Ν	DRY A	ANGL	PRVTE	М -Е					015	00
	5P 45 18 33.99	122 58 		04	0		N	DLIT	ODd	PSNGR CAR		01 DRVR NONE	21 F OR-Y OR<25		028	000	02
		לי ה ו ו								02 NONE 0 PRVTE PSNGR CAR	STRGHT S -N	01 DRVR NONE	73 M OR-Y OR<25		000	000	00
N N N	06/23/2016	18	MERIDIAN ST	INTER	CROSS	Ν	z	RAIN S	S-1TURN	01 NONE 9	STRGHT						07
	ΗL	0	SIERRA VISTA ST	CN		STOP SIGN	N	WET T	TURN	N/A	s -N					000	00
	4P 45 18 34.02	-122 58 13.94		02	0		Ν	DAY F	PDO	UNKNOWN		01 DRVR NONE	00 Unk UNK UNK		000	000	00
										02 NONE 9 N/A	U-TURN S -S					000	00
										PSNGR CAR		01 DRVR NONE	00 Unk UNK UNK		000	000	00

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From:	Bill Buhrow
Sent:	Wednesday, January 13, 2021 12:37 AM
То:	<u>Kaaren Hofmann; Ed Gierok</u>
Subject:	RE: No Parking Request

This email originated from outside the City of Newberg's organization. Do not click links or open attachments unless you recognize the sender and know the content is safe.

That would be fine - thanks ?? Bill Buhrow, Psy.D. George Fox University **Dean of Student Services** Dir. Health and Counseling 503-554-2340 ??

?????NOTICE: This e-mail (including attachments) is covered by the Electronic Communications Privacy Act, 18 U.S.C._2510-2521, is confidential and may be privileged. If you are not the intended recipient, please be aware that any retention, dissemination, distribution, or copying of this communication is prohibited. Please reply to the sender that you have received this message in error, then delete it. Thank you for helping to maintain privacy.???

??

??

From: Kaaren Hofmann [mailto:Kaaren.Hofmann@newbergoregon.gov] Sent: Tuesday, January 12, 2021 8:56 AM To: Bill Buhrow; Ed Gierok Subject: No Parking Request ?? Good morning-?? Based on the TSC meeting last night, the request for an additional 35??? at both locations will not be approved as some of your neighbors objected.?? Are you comfortable with an additional 20??? on your side of Meridian??? We can also set up a meeting to discuss options. ?? Let me know where you think you want to go. ?? Regards, ?? Kaaren Hofmann, PE **City Engineer City of Newberg** 414 E. First Street Newberg, Oregon 97132 503.537.1223 (desk phone) 971.281.9067 (mobile phone) kaaren.hofmann@newbergoregon.gov Pronouns: she ??? her - hers ?? whe

?? Helpful Links: From:Ed GierokSent:Tuesday, January 12, 2021 9:17 AMTo:Kaaren HofmannCc:Bill BuhrowSubject:Re: No Parking Request

This email originated from outside the City of Newberg's organization. Do not click links or open attachments unless you recognize the sender and know the content is safe.

I think that would be fine.

In His Service, Ed Gierok Director of Campus Public Safety & Emergency Management

George Fox University

503-554-2090

On Tue, Jan 12, 2021 at 8:55 AM Kaaren Hofmann <<u>Kaaren.Hofmann@newbergoregon.gov</u>> wrote:

Good morning-

Based on the TSC meeting last night, the request for an additional 35' at both locations will not be approved as some of your neighbors objected. Are you comfortable with an additional 20' on your side of Meridian? We can also set up a meeting to discuss options.

Let me know where you think you want to go.

Regards,

June 18, 2021

To: Traffic Safety Commission

RE: Updated Meridian Street & Sheridan Street Intersection Pedestrian Safety Issue Traffic Decision (File #TSC-20-005)

My sisters and I own three commercial buildings at the corner of N Meridian Street and E Sheridan Street. The addresses of the buildings are 207, 211 and 215 N Meridian Street.

Our tenants rely on street parking to supplement the parking on our property. We oppose any change to N Meridian Street that reduces street parking.

Elimination of parking on either side of N Meridian Street is detrimental to us. It makes our property less attractive to our tenants and their customers, ultimately taking value from our property.

The City had Greenlight Engineering study pedestrian crossings on N Meridian Street from E North Street to E Sheridan Street. They said there are no reported pedestrian crashes form 2009 through 2018. They recommended installing signage to alert vehicles that there might be pedestrians in the area. No signage has been added. College students are smart and don't need special treatment to cross a minor collector street.

Yellow curbs have been added to Meridian at almost every cross street from E Sheridan Street to E North Street—about sixteen yellow curbs in three blocks. These yellow curbs already improve sight distance at intersections. Increasing yellow curbs another 20 feet is redundant and wasteful of precious parking. It also sets a precedent—that cross walks deserve special treatment.

I don't think a college should be designing Newberg's roads.

Sincerely,

Dwight Minthorne, PE 602 NE Joanne Ct Hillsboro, OR 97124

WORST INTERSECTION LIST

- 1. College & Hancock
- 2. College & First
- 3. Villa & Mountainview
- 4. Meridian & Hancock
- 5. Pedestrian Crossing at Howard & 99W
- 6. Second & Everest
- 7. Villa & OR219
- 8. Springbrook & 99W
- 9. Hwy 240/Main Street/Illinois Street