Traffic Analysis

Scotia Rezone and Subdivision

Prepared for:

PALCO



Mr. Donald Raffaelli, P.E. 3433 Trinity Street Eureka, CA 95501 707-443-5485

Reference: 005161.800

July 26, 2005

Robert Wall, AICP SHN Consulting Engineers & Geologists, Inc. 812 W. Wabash Ave. Eureka, CA 95501-2138

Subject: Traffic Analysis, Scotia Rezone and Subdivision

Dear Mr. Wall:

As requested, I have reviewed the above study prepared by SHN staff. It is my understanding that the rezone of the community of Scotia and the subdivision of the existing residential commercial and industrial apportions of Scotia (an unincorporated company town) will not change as a result of this action. The intended purpose is to conform to current county land use designation and to allow for future sales of the subdivided uses. Therefore, a more formal traffic impact study was not warranted or requested by the County.

The traffic analysis prepared by SHN staff accurately reflects current traffic conditions leading to and within Scotia. As detailed in the report, all segments of the system operate presently, at a Level Of Service (LOS) "A." As such, no traffic impact will be added as a result of the rezone and subdivision of the community, so long as no change occurs in the present land uses and no expansion of the current uses occur.

Therefore, based on the above stated qualifications, in my professional opinion, the traffic analysis prepared by SHN Consulting Engineers & Geologists, Inc. is sufficient to address the needs of the rezone/subdivision.

Very truly yours,

Donald Raffaelli PE

CE 35315TR126

DR:lms

Reference: 005161.800

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Consulting Engineers & Geologists, Inc. 812 W. Wabash Ave. Eureka, CA 95501-2138 707-441-8855

July 2005

QA/QC: RSW___

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Acronyms and Abbreviations

ADT Average Daily Traffic

C-2/Q Community Commercial (Humboldt County Code Zoning Classification)

LOS Level of Service

MH/Q Heavy Industrial (Humboldt County Code Zoning Classification)

mph mile per hour SH State Highway

SHN SHN Consulting Engineers & Geologists, Inc.

TIA Traffic Impact Analysis

U Unclassified (Humboldt County Code Zoning Classification)

Introduction

This traffic analysis was conducted by SHN Consulting Engineers & Geologists, Inc. (SHN) on behalf of PALCO. The purpose of this analysis is to assign traffic values to a proposed rezoning subdivision of the community of Scotia. Appendix A presents the Scotia Town Master Plan and defines the project area. Subdivision and rezone will only involve existing uses and structures. PALCO has requested a General Plan Amendment to reclassify land use designations and a zone change for the project area. The project area consists of approximately 106 acres of land, which includes most of PALCO's land currently zoned Unclassified (U) under the Humboldt County Code Zoning Regulations. Unclassified zoning not a part of the project area includes approximately 10 acres of roadways. The project area also does not include the previously rezoned industrial and downtown commercial areas, now zoned Heavy Industrial (MH/Q) and Community Commercial (C-2/Q).

The purpose of the proposed project is to change land use designations and zoning to match existing land uses, and to facilitate a tentative map for a major subdivision within the project area.

This traffic analysis assumes that no new uses or structures are proposed as a result of the subdivision and rezone. This study involves an analysis of the existing condition of one large parcel owned by PALCO with multiple uses and structures, and the effect the subdivision and rezone will have on traffic patterns and volumes.

Regional Setting

The unincorporated community of Scotia, located in the Eel River Valley in southern Humboldt County, is 22 statute miles South of Eureka, California. Scotia is offset from U.S. Highway 101 by roughly one mile and is linked to the incorporated City of Rio Dell of by the Eel River Bridge (State Highway [SH] 283).

Community

Scotia is a mix of commercial, residential, industrial, recreational and public facilities. Approximately two-thirds of the town is an industrial area that consists of Mill Complexes "A" and B, a large manufacturing plant, electricity and cogeneration plants, fuel and machinery buildings, the log pond, and log storage areas. A hardwood chip plant, log storage areas, and transfer station are located west of the manufacturing plant complex; these land uses are not included in the proposed rezone.

There are approximately 58 acres of residential uses in Scotia, located on three main residential areas. The smallest residential area is approximately six acres in size, and is located in the northern corner of the project area, adjacent to the Highway 101 Scotia off-ramp. The largest residential area is approximately 38 acres, located in an area east of the commercial and industrial zone and extending to Highway 101. The third residential area, approximately 13 acres in size, is located west of the log pond and adjacent to the Eel River. Non-

residential land uses, commonly located in residential areas, are also found in Scotia's main residential area. These non-residential uses include the following: elementary school, fire station, two churches, the former hospital building (currently used as office space), and recreation center (*PlanWest 2005, Project Description*).

The new residential uses include the Scotia Inn.

The existing unincorporated community of Scotia is characterized by one main street. Main Street is classified by the County of Humboldt as a "Collector." Collector streets provide linkages between local streets and arterial streets. Collector streets provide access to individual properties and act as thoroughfares for local streets. Collector streets support light to moderate traffic volumes. Main Street is accessed by way of Northbound U.S. Highway 101 and SH 283.

All other roads in the unincorporated community of Scotia are classified as "Local Roads." Local roads provide direct access to adjacent properties and are not intended to serve through traffic. Local roads provide access to collector streets and carry low traffic volumes.

Scotia does not have official bike routes, trails, or paths. Many of the streets are unnamed. The County maintains the following streets in the community of Scotia: B Street, Bridge Street, Church Street, Eddy Street, Mill Street, North Court, Williams Street, 1st Street, 2nd Street, 3rd Street, 4th Street, 5th Street, and 6th Street.

The streets appear to be in good condition, and residential streets have sidewalks on one side only. There are approximately four marked crosswalks centered around the marketplace.

Public Transportation

A small population and low ridership limit public transit within Scotia. At present, there is one bus stop at Hoby's Market in Scotia. Regional bus service from Monday to Friday has seven scheduled stops going north: four in the morning and three after noon. Those times are 6:29 a.m., 7:23 a.m., 8:29 a.m., 10:29 a.m., 2:29 p.m., 4:32 p.m., and 6:48 p.m. There are six scheduled stops proceeding south from Hoby's Market. Two are in the morning and four are after noon. Those times are 8:08 a.m., 10:15 a.m., 1:58 p.m., 4:16 p.m., 6:31 p.m., and 7:34 p.m.. According to the census population count, 0% commute to work by bus, 14.4% commute to work by carpool, 62.4% commute to work by automobile, and 3.2% work from home (2000 U.S. Census). The proposed subdivision and rezone is not expected to affect public transit.

Traffic Analysis

To accomplish this traffic analysis, the following tasks were performed:

- 1. conducted a.m./p.m. peak hour intersection analysis on June 28, 29, 30, 2005;
- 2. acquired, from County and Caltrans, information on past traffic volumes;
- 3. reviewed Humboldt County General Plan §§4200 and 4300 et. seq.;
- 4. reviewed PALCO "administrative" project description submitted to SHN on July 11, 2005; and
- 5. acquired PALCO's shift change schedule (See Appendix B).

The elements of this Traffic Impact Analysis (TIA) will consist of:

Level of Service (LOS) as it now exists (See Appendices C and D)
Trips generated by project (current estimate)
Summary of elements
Conclusions
Recommendations

Level of Service

LOS is an indication of how smoothly traffic flows on a street or highway. An LOS "A" is indicative of free flow with little or no delay for vehicles entering from a side street (ramp) and no delay for vehicles traveling on the main street. An LOS E is constant stop and go and extensive delay for vehicles entering the main stream. LOS F is generally considered to be gridlock. Table 1 explains the progression of delay, in seconds, for unsignalized intersections.

		Table 1 For Unsignalized Intersections
LOS1	General Operating Condition	Average Control Delay Per Vehicle/Second (seconds)
Α	Free Flow	Up to 10.0
В	Reasonably Free Flow	10.1 to 15.0
С	Stable Flow	15.1 to 25.0
D	Approaching Unstable Flow	25.1 to 35.0
E	Unstable Flow	35.1 to 50.0
F	Force or Breakdown Flow	Greater 50.0
II	Level of Service Fransportation Research Board, <i>2000 F</i>	Highway Capacity Manual)

Because, at present, the Average Daily Traffic (ADT) on any given Scotia street is very low, the delay southbound U.S. Highway 101 off ramp movements are not restricted for left hand turns; therefore, the off ramp has an LOS of "A." The same LOS of "A" also applies to the northbound U.S. 101 ramp. The north-south connection between Rio Dell and Scotia, State Highway 283, experiences an unrestricted flow. Observations of peak hour ramp movements were also made at

the southbound, U.S. 101 on-ramp, and lunchtime peak hour movements were made at Bridge Street and Main Street. All intersections experience minimal dwell times that are categorized as having an LOS of "A." Delay times were not counted because the traffic flow was observably steady and without a backup.

Existing Traffic Counts

The 2003 traffic volume report from Caltrans (Appendix E) shows that Post Mile R51.84 (Junction Route 283 Northwest) has a peak hour traffic volume of 1,200. The report shows a peak month ADT of 12,500. The annual peak is 9,400. For comparison, 1973 data from Caltrans shows Post Mile 51.90 North Scotia Road to have a peak hour traffic count of 1,050. The ADT for the peak month was 11,800. The ADT for the annual count was 8,200. The Humboldt County Department of Public Works ADT report 1973 (Appendix F), counts 1,192 vehicles from the location of 50 feet from the intersection of Williams and Bridge Streets.

SHN Traffic Counts

Based on the shift change schedule for the Scotia mill, a two-hour "Peak Hour" observation time was used for all study intersections. Appendix C presents traffic count data and Appendix D presents a Peak Hour Turning Movement Summary. Appendix G present photographs of the pertinent streets and intersections. As noted above in the "Level of Service" section above, the intersections chosen, include the following:

- northern ingress/egress point (Junction 283 and U.S. 101)
- commercial center of Bridge and Main Streets
- southern ingress/egress point (Southbound, U.S. 101 onramp)

The 6:00-8:00 a.m. "Peak Hour" Movement at Junction 283 off Highway 101, Scotia tallied total count of 405 vehicles. Five pedestrians were utilizing the sidewalk at that time.

a.m. Peak H	our Movements at	Table 2 Junction 283 off I	Highway 101, Scotia	a, June 28, 2005
Hour	Eastbound (to 101 North)	Westbound (to Northcourt Residential)	Southbound (to Scotia/Main Street)	Northbound (to Rio Dell)
06:00 - 06:15	7	2	32	4
06:16 - 06:30	10	0	21	6
06:31 - 06:45	12	0	22	3
06:46 - 07:00	9	0	38	3
07:01 - 07:15	17	1	29	10
07:16 - 07:30	14	0	47	10
07:31 - 07:45	24	0	16	12
07:46 - 08:00	18	1	27	10
Totals	111	4	232	58

The 2:30-4:30 p.m. Peak hour Movement at Junction 283 tallied a total count of 818 vehicles.

p.m. Peak H	our Movements at J	Table 3 unction 283 off H	ighway 101, Scotia	ı, June 28, 2005
Hour	Eastbound (to 101 North)	Westbound (to Northcourt Residential)	Southbound (to Scotia/Main Street)	Northbound (to Rio Dell)
14:30 - 14:45	32	2	33	40
14:46 - 15:00	19	2	33	25
15:01 – 15:15	36	1	32	25
15:16 - 15:30	25	3	35	29
15:31 – 15:45	47	1	42	38
15:46 - 16:00	18	4	43	34
16:01 – 16:15	35	4	45	36
16:16 - 16:30	25	4	40	30
Totals	237	21	303	257

The 11:00 a.m. – 1:00 p.m. lunch "Peak Hour" Movement at Bridge and Main Streets tallied 503 vehicles. Approximately 98% of the vehicles using the road during the two-hour interval were logging trucks and PALCO company vehicles.

	Table 4		
a.m. and p.m. Lu	unch Peak Hour Movements at Bridge	and Main Streets, S	cotia, June 29, 2005
Hour	Westbound	Southbound	Northbound
Hour	(to Bridge Street/Residential Area)	Main Street	Main Street
11:00 - 11:15	13	15	26
11:16 - 11:30	10	16	24
11:31 - 11:45	15	19	39
11:46 - 12:00	12	23	27
12:01 - 12:15	13	18	42
12:16 - 12:30	20	31	26
12:31 - 12:45	14	19	25
12:46 - 13:00	13	21	22
Totals	110	162	231

The 6:00-8:00 a.m. "Peak Hour" Movement at the South Freeway on ramp at Highway 101 tallied 166 vehicles. The 2:30-4:30 p.m. "Peak Hour" Movement at the South Freeway on ramp at Highway 101 tallied 236 vehicles. An approximate even split of logging trucks and passenger vehicles used the road during the 2:30 – 3:30 p.m. traffic count. During the traffic count hour of 3:30 – 4:30 p.m., approximately 75% of the vehicles using the road were passenger vehicles.

a m. Peak Ho	ur Movements at So	Table 5	n Highway 101 Scot	ia June 30 2005
Hour	Eastbound (to Highway 101)	Westbound (no link)	Southbound (to log deck)	Northbound (to Scotia)
06:00 - 06:15	7	0	9	8
06:16 - 06:30	6	0	5	8
06:31 - 06:45	9	0	7	8
06:46 - 07:00	5	0	3	6
07:01 - 07:15	7	0	9	6
07:16 - 07:30	11	0	9	7
07:31 - 07:45	8	0	6	3
07:46 - 08:00	13	0	3	3
Totals	66	0	51	49

		Table 6		
p.m. Peak Ho	our Movements at So	outh Freeway onram	p Highway 101, Scot	ia, June 30, 2005
Hour	Eastbound	Westbound	Southbound	Northbound
14:30 - 14:45	16	0	9	8
14:46 - 15:00	6	0	6	4
15:01 – 15:15	19	0	8	13
15:16 - 15:30	21	0	5	5
15:31 - 15:45	14	0	1	7
15:46 - 16:00	15	0	14	6
16:01 - 16:15	10	0	9	8
16:16 - 16:30	8	0	13	11
Totals	109	0	65	62

Table 7 Observed Traffic Count Tota	als by Site and Time
Site/Time	Total
Junction 283 a.m.	405
Junction 283 p.m.	818
Bridge and Main Streets, a.mp.m.	503
South Freeway onramp a.m.	166
South Freeway onramp p.m.	236

Total a.m.	Table 8 and p.m. Peak Hour Traffic M	l ovements
Location	Time	Total
Junction 283	7:00 - 8:00 am	236
Junction 283	15:00 - 16:00 p.m.	413
Bridge and Main Streets	11:30 a.m. – 12:30 p.m.	285
South Freeway Onramp	7:00 - 8:00 a.m.	85
South Freeway Onramp	15:00 – 16:00 p.m.	128

Based on observations at a.m. and p.m. peak hours, the average control delay of less than 10 seconds correlates with LOS "A" (see Table 1). The peak hour traffic count data (Appendices C and D) was extrapolated from the total of the fifteen-minute interval tallies. The data shows that for each studied intersection, a reasonable free flow of interrupted traffic with minimal dwell times and an absence of queues. The project will cause no change in existing LOS.

The *Institute of Transportation of Engineers Trip Generation Manual* was not applicable to this study, as the intersection analysis studied an aggregate number of trips generated by all users within the community of Scotia. This particular subdivision and zone change is not categorized as a" Significant Trip Generator." The only possible expected effect of rezone and subdivision would be a slight increase in queues at both a.m. and p.m. peak hours at Junction 283, caused by residents commuting and working outside the community. Thus, the project will not generate a significant number of new trips.

Evacuation Routes for PALCO

Volunteers constitute the Fire Department for Scotia. The Scotia Volunteers are all employees of PALCO. The PALCO Fire Chief is responsible for emergency response throughout PALCO's operations. Each PALCO operation has a site-specific emergency action plan.

Conclusion

The proposed rezone and subdivision of the town of Scotia (See Appendix A) will not have an adverse affect on traffic flow. The current traffic count data and the traffic count data from Caltrans and the Humboldt County Public Works Department attest to the fact that there has been no significant change in traffic flow from 1973 to present. If the subdivision were to incorporate a new population of people who were employed outside the town limits of Scotia, an observable increase in traffic may occur during a.m. and p.m. peak hours at Junction 283 intersection to Highway 101. However, this slight increase would not significantly affect traffic flows in the area.

Recommendations

As a result of the subdivision, it will be necessary to develop a management entity to maintain roads not currently defined within the confines of the county system. These management entities include a community services district, homeowners association, or full incorporation of the roads into the county maintenance system.

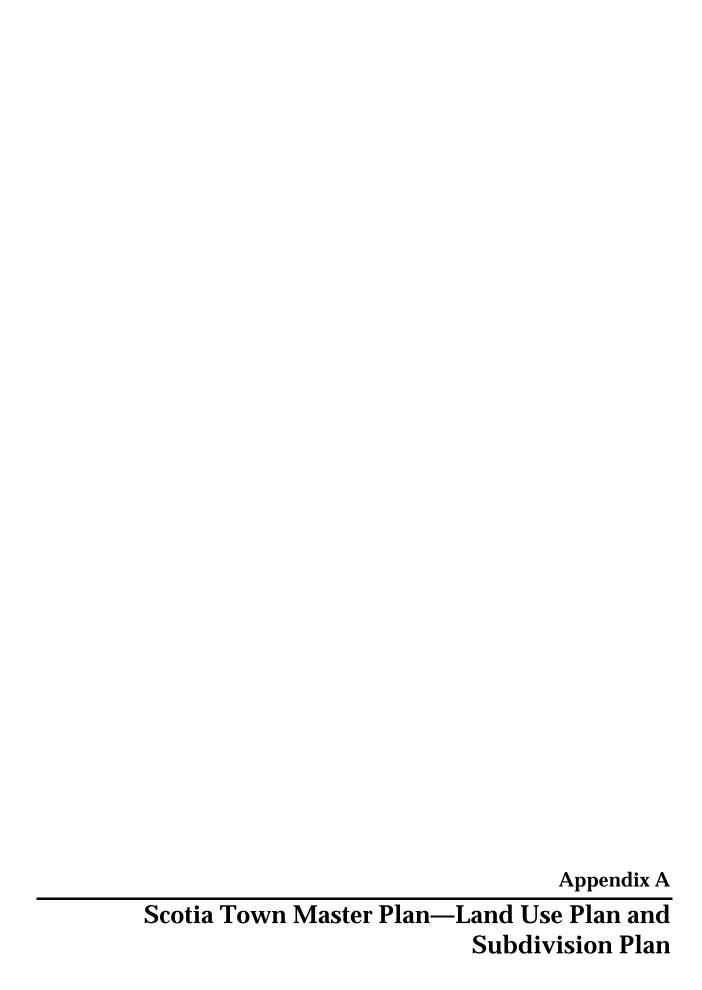
References Cited

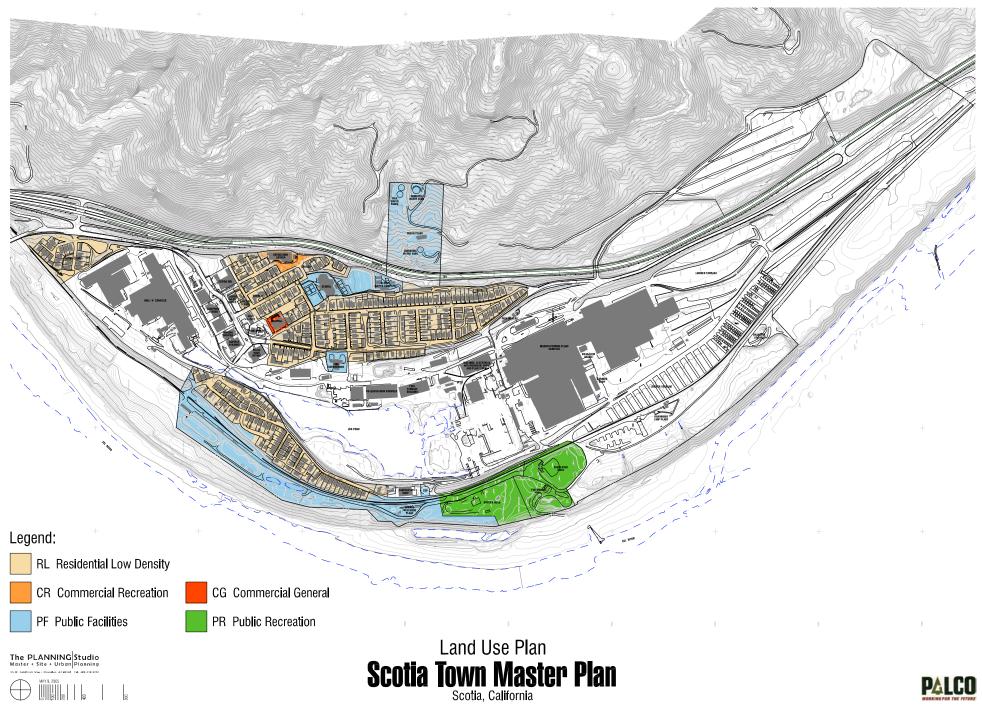
Humboldt, County of. (Adopted December 10. 1984; Amended February 9, 1998). *Humboldt County General Plan Volume I: Framework Plan*. Eureka: Humboldt County.

Institute of Transportation of Engineers. (1991). Trip Generation, 5th Edition. Washington DC: ITE.

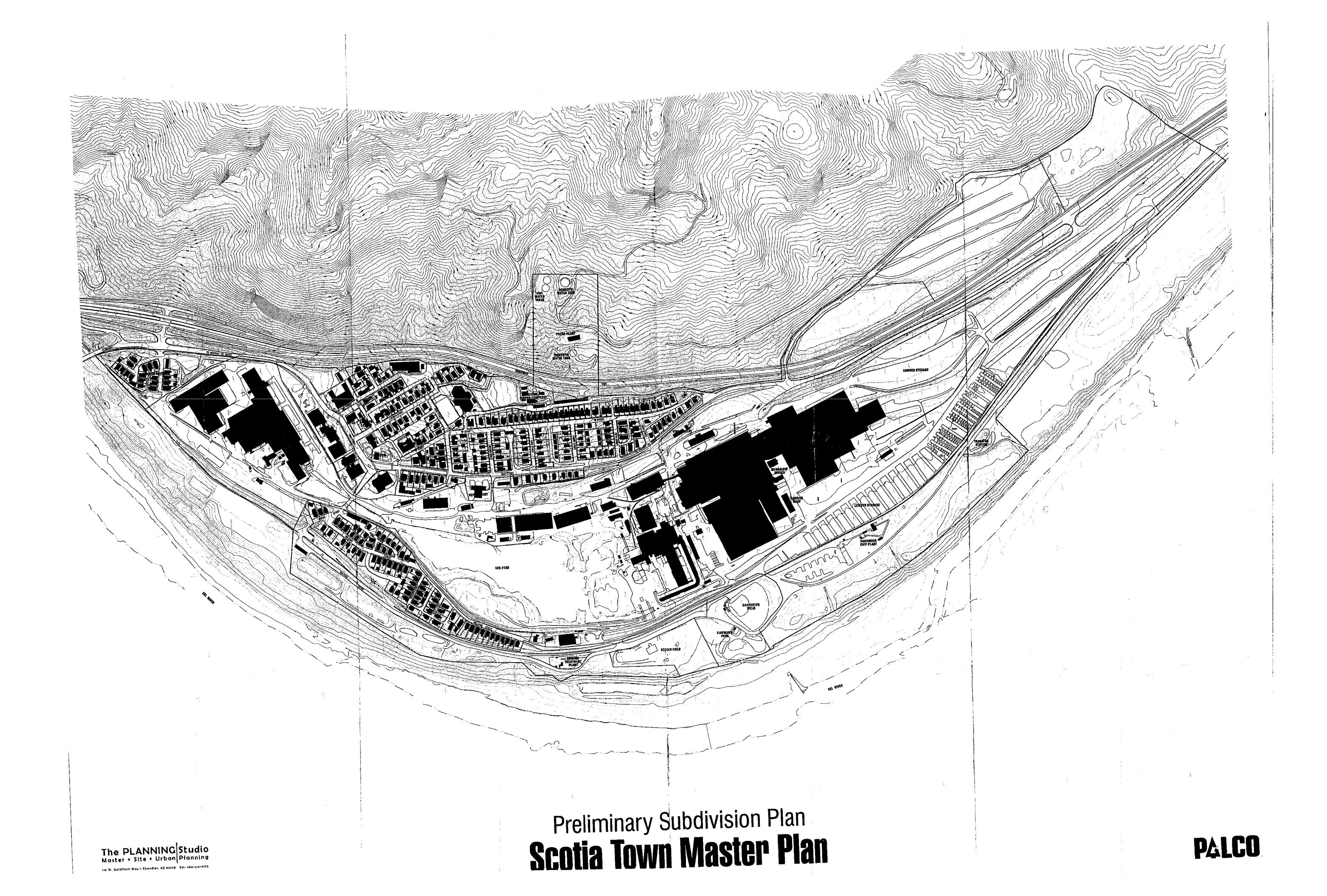
PlanWest Partners. (July 11, 2005). "The Town of Scotia California Proposed Rezone and Subdivision, Administrative Draft Project Description for the Initial Study." Arcata:PlanWest.

US. Census Bureau. (2000). 2000 U.S. Census. NR: U.S. Census Bureau.











PALCO Shift Schedule

Book	Operations	Work Days	Shift Times
5	Gymnasium	M-F	5:00am - 8:30 pm
12	Road Crew	M-F	6:00am - 4:30 pm
12	Logging/Contract Administrators	M-F	6:00am - 4:30 pm
16	Scalers-Carlotta/Yager	M-F	7:00am - 3:30 pm
20	Fortuna Sawmill-1st Shift	T-F	5:00am - 3:30 pm
39	Plant Store	M-F	6:30am - 4:00 pm
43	Power Plant	M-Su	Various Shifts
43	P.P. Maintenance	M-F	7:30am - 4:30 pm
46	Kilns	M-F	6:00am - 2:30 pm
48	Shipping	M-F	6:00am - 2:30 pm
50	Factory Finishing	M-F	6:00am - 2:30 pm
57	SVA Planner 1st Shift	M-Th	5:00am - 3:30 pm
58	SVA Planner 2 nd Shift	M-Th	5:00am - 3:30 pm
59	Maintenance	M-F	5:00am - 3:00 pm
60	Filers	M-F	Variable Shifts
62	Construction Millwrights	M-F	7:00am - 3:30 pm
63	Construction Carpenters	M-F	7:00am - 3:30 pm
64	Scotia Small Log 1st Shift	M-F	7:00am - 5:30 pm
65	Scotia Small Log 2nd Shift	M-F	6:00 pm - 4:30 am
66	Power Shift	F-M	5:00 pm - 3:30 am
67	Scotia Large Log 1st Shift	M-F	
68	Scotia Large Log 2nd Shift	M-F	
69	Scotia Large Log 3rd Shift	M-F	
72	Fleet Shop 1st Shift	M-F	5:00am - 3:30 pm
72	Fleet Shop 2nd Shift	M-F	3:30 pm - 2:00 am
73	Support Services	M-F	7:00 m - 3:30 pm
75	Fire Protection	M-F	7:00am - 5:00 pm
81	Painters (Town)	M-F	7:00am - 3:30 pm
84	Town Maintenance & Laborers	M-F	7:00am - 3:30 pm
88	Machine Shop 1st Shift	M-F	6:30am - 3:30 pm
88	Machine Shop 2 nd Shift	M-F	3:30 pm - 12:00am
89	Electricians	M-F	6:30am - 3:30 pm



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File Name: Scotia Junction 283 AM Site Code: 000000001 Start Date: 06/28/2005 Page No: 1

	Int. Total						169	57					405		
	Peds	1.0	0	0	0	0	0	0	0	0	0	0	0	0.0	
lest	Left	1.0	0	0	0	0	0	0	0	0	0	0	0	0.0	
From West	Thru	1.0	0	2	2	0	4	0	0	0	2	7	9	60.0	
	Right	1.0	0	7	0	1	m	0	-	0	0	Ħ	4	40.0	
	Peds	1.0	0	0	0	0	0	0	0	0	0	0	0	0.0	The second
nuth	Left	1.0	0	0	0	0	0	==	0	0	0	++	1	0.8	
From South	Thru	1.0	4	m	2	3	12	60	60	00	7	31	43	36.1	
	Right	1.0	IJ	9	6	8	28	10	10	15	12	47	75	63.0	
	Peds	1.0	0	0	0	0	0	0	0	0	0	0	0	0.0	
ast	Left	1,0	21	15	17	27	80	24	37	15	16	26	172	91.5	
From E	Thru Le	1.0	0	0	0	0	0	0	0	0	1		1	0.5	
	Right	1.0	0	3	***	0	4	2	7	4	es	11	15	8.0	
	Peds	1.0	0	0	0	0	0	0	0	0	0	0	0	0.0	
orth	Left	1.0	2	7	-	1	9	7	4	6	4	24	30	34,1	
From North	Thru	1.0	11	4	ın	10	30	ın	6	-	11	26	26	63.6	100 to 10 to
	Right	1.0	2	0	0	0	2	0	0	0	0	0	2	2.3	
	Start Time	Factor	00:90	06:15	06:30	06:45	Total	00:20	07:15	07:30	07:45	Total	Grand Total	Apprch %	

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File Name: Scotia Junction 283 PM Site Code: 000000002 Start Date: 06/28/2005 Page No: 1

		From North	orth			From F	East			From Sc	South			From West	Vest		
Start Time	Right	Thru	Left	Peds	Right	Thru	Left	Peds	Right	Thru	Left	Peds	Right	Thru	Left	Peds	Int. Total
Factor	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	_	
14:30	0	19	3	0	10	0	13	0	53	30	2	0	1	0	0		107
14:45	1	17	4	0	80	0	15	0	14	15	Ţ	0	+	-	7		79
Total	1	36	7	0	18	0	28	0	43	45	М	0	2		7	0	186
15:00	H	19	00	0	4	0	12	0	27	21	0	0	4	-	0	-	94
15:15	0	12	2	0	7	m	22	0	22	21	0	0	Ŧ	-	1		92
15:30	0	25	L	0	9	0	16	-	39	32	+-4	+4	+4	m	0		130
15:45	0	23	4	0	00	2	18	0	13	22	7	0	2		1	_	66
Total	1	79	19	0	25	2	99	1	101	66	M	-	2	9	2	0	415
16:00	0	17	4	0	4	67	26	0	31	30	-	0	2	0	2	0	120
16:15	0	22	4	0	7	0	16	0	19	22	4	0	2	2			66
Grand Total	2	154	34	0	54	8	138	+4	194	196	11	***	11	6	7		820
Apprch %	1.1	81.1	17.9	0.0	26.9	4.0	68.7	0.5	48.3	48.8	2.7	0.2	40.7	33.3	25.9		
otal %	0.2	18.8	4.1	0.0	99	0	16.8	0.1	23.7	23.9	+	0.1	1.3	1.1	00	00	

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File Name: Scotia Bridge and Main St. Site Code: 000000003 Start Date: 06/29/2005

	Int. Total		54	49	73	62	238	73	77	58	56	264	502		
	Peds	1.0	0	-	0	0	1	0	0	0	0	0	-	0.8	0
/est	Left	1.0	14	80	13	11	46	19	14	7	8	48	8	78.3	10.7
From West	Thru	1.0	0	0	0	0	0	0	0	0	0	0	0	0.0	0
	Right	1.0	2	2	2	m	6	4	in	4	173	16	25	20.8	0 2
	Peds	1.0	0	0	0	0	0	0	0	0	0	0	0	0.0	00
outh	Left	1.0	9	m	4	7	15	E	9	L	3	17	32	18.9	6.4
From South	Thru	1.0	12	16	26	16	20	23	12	18	8	61	131	77.5	76.1
	Right	1.0	0	0	0	0	0	0	0	0	9	9	10	3.6	1 7
	Peds	1.0	0	0	0	0	0	0	0	D	0	0	0	0.0	0.0
East	Left	1.0	0	0	0	0	0	0	0	0	-	-	-	50.0	0.0
From	Thru	1.0	0	0	0	0	0	0	0	0	-	-	1	50.0	6.2
	Right	1.0	0	0	0	0	0	0	0	0	0	0	0	0.0	00
	Peds	1.0	0	0	0	0	0	0	0	0	0	0	0	0.0	00
orth	Left	1.0	0	0	0	0	0	0	0	0	0	0	0	0.0	00
From North	Thru	1.0	13	14	17	20	64	14	56	15	17	72	136	64.5	77.1
	Right	1.0	7	LO.	11	10	33	10	14	on	0	42	75	35.5	149
	Start Time	Factor	11:00	11:15	11:30	11:45	Total	12:00	12:15	12:30	12:45	Total	Grand Total	Apprch %	Total %

Heading Heading Heading

File Name: Scotia South Freeway Exit AM Site Code: 000000004 Start Date: 06/30/2005

0	-
Start Date	Page No

	Int. Total		24	19	24	67	14	22	27	17	80	19	166		
	Peds	1.0	0	0	0	0	0	0	0	0	0	0	0	0.0	0.0
tsa	Left	1.0	0	0	0	0	0	0	0	0	0	0	0	0.0	0.0
From West	Thru	1.0	0	0	0	0	0	0	0	0	0	0	0	0.0	0.0
	Right	1.0	0	0	0	0	0	0	0	0	0	0	0	0.0	0.0
	Peds	1.0	0	0	0	0	0	0	0	0	0	0	0	0.0	0.0
outh	Left	1.0	0	0	0	0	0	0	0	0	0	0	0	0.0	0.0
From South	Thru	1.0	m	2	2	7	0	7	1	1	4	1	12	30.8	7.2
NISHII (EQ	Right	1.0	2	4	4	10	1	7	m	m	01	00	27	69.2	16.3
st St	Peds	1.0	0	0	0	0	0	0	0	0	0	0	0	0.0	0.0
ast	Left	1.0	9	רע	ın	16	m	7	00	2	23	М	42	53.2	25.3
From East	Thru	1.0	0	0	0	0	0	0	0	0	0	0	0	0.0	0.0
	Right	1.0	ın	ø	9	17	9	4	ø	2	18	2	37	46.8	22.3
	Peds	1.0	0	0	0	0	0	0	0	0	0	0	0	0.0	0.0
orth	Left	1.0	un	7	15	12	4	15	8	2	22	S	39	81,3	23.5
From North	Thru	1.0	m	0	7	5	0	7	+		4	0	6	18.8	5.4
	Right	1.0	0	0	0	0	0	0	0	0	0	0	0	0.0	0.0
	Start Time	Factor	06:15	06:30	06:45	Total	00:20	07:15	07:30	07:45	Total	08:00	Grand Total	Apprch %	Total %

Heading Heading Heading

File Name: Scotia South Freeway Exit PM Site Code: 000000005 Start Date: 06/30/2005 Page No: 1

	Int. Total		33	18	51	40	31	22	35	128	28	36	246		
	Peds	1.0	0	0	0	0	0	0	0	0	0	0	0	0.0	0.0
tsa	Left	1.0	0	0	0	0	0	0	0	0	0	0	0	0.0	0.0
From West	Thru	1.0	0	0	0	0	0	0	0	0	0	0	0	0.0	0.0
	Right	1.0	0	0	0	0	0	0	0	0	0	0	0	0.0	0.0
	Peds	1.0	0	0	0	0	0	0	0	0	+	0	+1	1.2	0,4
South	Left	1.0	0	0	0	0	0	0	0	0	0	0	0	0.0	0.0
From Sc	Thru	1.0	15	2	1	7	0	2	0	4	9	9	20	24.7	8.1
	Right	1.0	7	'n	12	00	10	8	6	32	9	7	09	74.1	24.4
ast	Peds	1.0	0	0	0	0	0	0	0	0	0	0	0	0.0	0.0
East	Left	1.0	6	Ø	15	00	2	0	10	20	9	10	51	53.7	20.7
From E	Thru	1.0	0	0	0	0	0	0	0	0	0	0	0	0.0	0.0
	Right	1.0	m	4	7	11	in	2	9	27	in	5	44	46.3	17.9
	Peds	1.0	0	0	0	0	0	0	0	0	0	0	0	0.0	0.0
orth	Left	1.0	6	-	10	11	11	9	9	34	4	00	26	80.0	22.8
From North	Thru	1.0	0	0	0	0	m	1	4	8	m	m	14	20.0	5.7
	Right	1.0	0	0	0	0	0	0	0	0	0	0	0	0.0	0.0
	Start Time	Factor	14:30	14:45	Total	15:00	15:15	15:30	15:45	Total	16:00	16:15	Grand Total	Approch %	Total %



				I	Table I	D-1						
	Pea	ak Hou	r Turni	ing Mo	vemen	t Sumn	nary at	Junctio	n 283			
Peak Hour			Main	Street					Juncti	on 283		
	No	rthbou	ınd	So	uthbou	ınd	Ea	astbour	nd	W	estbou	nd
	LT ¹	TH ²	RT^3	LT	TH	RT	LT	TH	RT	LT	TH	RT
6:00 to 8:00 a.m.	0	13	15	172	56	6	30	6	75	1	1	2
2:30 to 4:30 p.m.	7	196	54	138	154	11	34	9	194	11	8	2

1. LT: Left 2. TH: Through 3. RT: Right

Peak	Hour '	Turnin	g Move		Table l Summa		ridge S	treet a	nd Mai	n Stree	t	
Peak Hour			Main	Street					Bridge	Street		
	No	rthbou	ınd	So	uthbou	ınd	Ea	astbou	nd	W	estbou	nd
	LT	TH	RT	LT	TH	RT	LT	TH	RT	LT	TH	RT
11:00 a.m. to 1:00 p.m.	94	131	0	1	136	25	0	0	0	32	1	75

1. LT: Left
2. TH: Through
3. RT: Right

D	oak Ho	ur Tur	ning M		Table I nt Sum		t Sout	2 Eroosi	/23/ OPP	amn		
Peak Hour	eak 110	ui i ui		Street	iii Suii	illial y a					Iighwa	y 101
	No	rthbou	ınd	So	uthbou	ınd	Ea	astbour	ıd	W	estbou	nd
	LT	TH	RT	LT	TH	RT	LT	TH	RT	LT	TH	RT
6:00 to 8:00 a.m.	0	12	37	42	9	0	39	0	27	0	0	0
2:30 to 4:30 p.m.	0	20	44	51	14	0	56	0	60	0	0	0

1. LT: Left
2. TH: Through
3. RT: Right



T	AD	Peak		Mile-		ADI	. Peak		Mile-
Anna	Pk. Mo.	Hour	Description Rio Dell, Sellview Road	post		Pk. Me.	Hour	Description Temporary Jet. Rts. 27) South	post
7,8	11,200	1,000			4,000	7,400	640	Richardson Crove Inter-	1.61
7,8	11,200	1,000	Alton, Jet. Rie 36 East	57.89				change	
8,5	15,100	1,050						KRYSTAL	BARROA
8,5	12,100	1,050	Drake Hill Road	59.10			/		PT:
			Begin Freeway	59.11		PFA	FROM: LA		SHN
E,2	11,700	1,050	Kenmar Road Interchange	59.50	COUNTS				
7.4	10,600.	960	***	430%		7-45	DATE: 6-	77	x 44 185
	0.000		12th Street Interchange	50.49				Dean Crock Interchange	81431
6,8	\$,500	880	Fortuna Overhead (Main Street)	61.53	4,800	8,800		Milepost equation	
12.4	17,900	1,600	Palmet Boulevard Inter-	62, 23				Jet. Rie. 254 Northesst	
			change		4,100	7,900	730		
11.7	18,900	1,500	Fineb Creek Road Inter-	63.10		enmercia.		French Road Interchange	FIP2 44
9,	14,000	1,250	Ict. Bite. 1. Singley Road	E (00	3,900	7,500	700	Salmon Creek Roud Inter- change	25.01
11,1	15,200	1,050	Interchange	64.23	4,000	7,700	* 790	Jet. Rie. 254, Myers Flat	27.94
			Loleta Drive Interchange	65.05	4,150	8,000	750	Interchange	
10.0	15,700	1,400		0.34	Z.1502	6,000		Weott, Newton Hoad Inter- change	30.22
			Hookton Road Interchange	58.21				Jet. Rie. 254 South	35,11
11,	16,000	1,450			4,250	8,200	770	South Fact Food fator	25 70
			Fields Landing Overhead	70.61				South Fork Road Inter- change	33.70
13,	19,800	LEX	Orchard Street Inter-	72.03	4,300	8,300	770		
	N. San		change	10.00				Rederest Interchange	7.39.67
14.	21,300	1,800		72.85	4,450	8,200	710		200
15,	25,200	1,800	rhange		4.550	8,500	840	Barkdull Road Interchange	140.22
	22,000	-	Spruce Point Interchange	25.20	4,000	, unit	6.0	Jordan Road Interchange	R45 90
18,	21,100	1,950	End Freeway		4,850	8,900	880	End Freeway	
			Elb River Road					Shively Road	
19,	23,000	2,150	W. C. 200	19.14	5,000	\$,200	300		
15,	23,100	2,150	Eureka, Mccullen Avenue	75.91	5,000	7,200	800	South Scotia Road	31.09
20,	£1,600	2,250		10.41	4,700	6,700	750	Milepost equation	
25,	23,600	2.250	Foreka Harris Street	76,33					= 51.89
17.	20,100	1,500			8,2000	11,800	1,050	North Scotia Road	31.90
19	25 630		Farcka, Herslerson Street	76.65				Nie Gell, Cedar Street	52.62
19.	25,600	2,150			8,900	12,700	1:150		
140	±47,85€	220	Luncka, Walash Avenue	77.30			- Helmone	Rio Dell, Bellview Real	337-

72.03 Orchard Street.....

7,800

1,050

R49.18

Shively Road

10,700

2,650

25,000

23,500



COUNTY MAINTAINED ROADS IN SCOTIA

Road Name	Road No.	From	To	Total Miles	Court	Location Date	Date
Main Street	C42010	State Rwy 101	State Hwy 283	5.0	12.03	9 11 - Birde	54 1970
Street	4F015	Nain St.	Main St.	0.51	NOWE	The state of the s)
Bridge Street	4F065	Main St.	End	0.22	2007	Contract to the second	0.00
Church Street	4F060	Main St.	End	0.29	143	TO COLONIA	0/0
Eddy Street	4F050	Church St.	End	0 08	NONE	died righten	1501
Mill Street	42055	Main St.	i io	0.10	NONE		
North Court	4F013/4F014 State Hw	State Hwy 283	End	0 15	Moule		
Williams Street		Bridge St.	End	0.0	1192	SOT FROM X Wander	1973
1st Street	4 F045	Main St.	Church St	0.13	MONE		
2nd Street	45040	Main St.	B St	200			
3rd Street	4 = 035	Main St.	B 55	00.0	_		
4th Street	<f030< td=""><td>Main St.</td><td>4 4 5</td><td>00.00</td><td></td><td></td><td></td></f030<>	Main St.	4 4 5	00.00			
5th Street	4 F025	Main St.	H S	0.00	_		
6th Street	4F020	Main St.	B St.	0.04	->		

Post-IL Fax Noie 76/1	Osic //// Dages
Garbera (rustal	Fram Sirvic I Metingeth
SalDapl SHW	Ca. Humbolt DAW
thone &	Phone #
ax #	Far #



Scotia Streetscapes



View of Church Street from Eddy Street. Church Street is a County maintained road with street parking and sidewalks on both sides of the street. Church Street serves nonresidential buildings as well as residential homes. The preschool and Church are visible in top left of picture.



Intersection of Main Street and Bridge Street. Location of midday traffic count June 29, 2005. Both Streets are County maintained. Bridge Street begins and Main and maintains sidewalks for only one block. Main Street only host crosswalks in this vicinity.



View of B Street from Main. B Street is county maintained and has a continuous sidewalk on one side. It begins off of Main Street but then turns and runs parallel to Main Street. As seen some street parking is available. B Street was observed to be the main residential street.



B Street, south of 6th Street. South of 6th Street the sidewalk on B Street inclines above street level with a railing.





Mill Street west of Eddy Street. West of Eddy Street Mill Street narrows and hosts a sidewalk only on once side. Mill Street is a county maintained street.