

memorandum



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Date: January 31, 2012

To: **Mr. Craig Drake** From: Dalene J. Whitlock
Drake Haglan and Associates Project: MEX083

Subject: Brooktrails Second Access Trip Diversion Study

In order to estimate the number of trips that would likely be diverted from Sherwood Road to each of the three proposed alternative alignments for the second access road (Alignments A, FirCo(E) and I-H), data was collected through both traffic counts and a survey of area residents. For purposes of the survey the Brooktrails Subdivision was broken into four sub-areas. Also, completion of the US 101 Willits bypass project was assumed would have been completed.

Resident Survey

A questionnaire was prepared in coordination with the Project Development Team (through County Staff) to obtain data from residents on the frequency and types of vehicle trips they make. Residents were also asked which alternative route they would prefer to use, with the choice being between the three potential alternative alignments or continued use of Sherwood Road. The six-page questionnaire was mailed to 1,358 residences in Brooktrails, Sylvandale and Spring Creek using a database provided by County Staff. A copy of the survey, which includes a graphic indicating the study zones as well as the three alternative alignments, is attached.

Of the questionnaires sent out, 121 were returned as undeliverable. Residents were given the option of responding to the questionnaire via mail or electronically, and of the 1,237 surveys delivered, 264 responses were received (190 were mailed back and 74 responded electronically), indicating a 21.3 percent response rate.

The survey results provide insights into both the number and characteristics of trips made by Brooktrails residents. However, for purposes of the diversion analysis, the survey results of most interest are those regarding the routes that drivers prefer, as well as the areas in which the respondents live. There were an almost equal number of respondents who live in Areas A and D, with 68 and 69 respondents respectively, or about 26 percent of the total in each of these two areas. Likewise, Areas B, C and areas outside Brooktrails all had a similar number of respondents representing 14, 18 and 16 percent of the total respectively.

As regards the routes preferred by residents, the I-H alignment was identified as the preferred option by 39 percent of respondents, with Alignment A being a distant second at 26 percent, followed by the existing route along Sherwood Road at 23 percent and Alignment E (Fir-Co) at 12 percent. The tabulation of these results is attached.

The results of the survey also indicate that most of the trips made by drivers leaving Brooktrails are destined to Willits. About 35 percent of the respondents make trips to destinations other than Willits

ten percent of the time or less. Half the respondents indicated that less than 30 percent of their trips are not destined for Willits. Less than 20 percent of respondents indicated that more than half of their trips are to destinations other than Willits.

Data Collection

Existing traffic volumes were collected at seven locations along Sherwood Road on November 7, 2011, and turning movement counts were taken on December 7, 2011, at three intersections along Sherwood Road. All data was collected on days when area schools were in session and there were no special events, adverse weather or other indications that would result in abnormal travel patterns. Based on these counts the volume of traffic added to Sherwood Road at various intersections was determined. The traffic counts indicate that under existing conditions 35.8 percent of traffic leaves Sherwood Road at Birch Street, 23.8 percent enters and exits at Lupine Way, and 15.1 percent continues past Poppy Terrace. The remaining 25.3 percent entered and exited at Primrose Drive or Daphne Way.

Data was also provided regarding the number developed parcels in each of the four study zones. This data indicates that 28 percent of the total parcels developed are in Zone A, 19 percent are in Zone B, 28 percent are in Zone C, and 25 percent are in Zone D.

Route Drive Times

Scaled concept drawings of each of the three alternative alignments created in geographic information system (GIS) modeling software were used to determine the general alignment and associated likely travel speeds along the various road segments that connect each of the study zones to Willits. The GIS database was also used to determine the centroid of each zone as the beginning point of the trips and the intersection of US 101 and State Route (SR) 20 was selected as the destination for all trips. The travel times for each of the segments connecting the centroid to the destination intersection were determined using assumed speeds based on the various types of road segment.

The results of this analysis are shown in Table I. The route having the shortest projected travel time from the centroid of the Zone to the intersection of US 101/SR 20 is indicated by text in bold and italics.

Table I
Trip Time Summary (in minutes)

From Zone:	Via Alignment:			Via
	A	FIRCO	I-H	Sherwood
A	20.00	12.00	10.25	<i>9.75</i>
B	20.50	14.50	12.25	<i>11.75</i>
C	16.25	17.75	<i>11.50</i>	11.25
D	<i>11.75</i>	21.25	14.75	14.50

Note: fastest route indicated in ***bold and italics***.

Trip Diversion Estimates

Based on the survey results, traffic data collected, the parcel development ratios, and the route drive time analysis, the potential for diversion from Sherwood Road to each of the three alternative

alignments was estimated. These results are summarized in Table 2 for the existing 6,868 trips counted on Sherwood Road south of Birch Street.

Table 2
Diverted Trip Estimate based on Volumes

Zone	Percent of Trips on Sherwood	Number of Trips added to Sherwood	Alignment A		Alignment E (Fir-Co)		Alignment I-H	
			%	Trips	%	Trips	%	Trips
A	15.7%	1081	0%	0	10%	108	50%	540
B	5.9%	406	0%	0	5%	20	50%	203
C	27.9%	1915	0%	0	0%	0	60%	1149
D	35.4%	2430	80%	1944	0%	0	25%	608
Outside Brooktrails	15.1%	1036	0%	0	55%	570	50%	518
Total Estimated Diverted Trips			1944		698		3018	

Based on the analysis performed using existing traffic volumes, Alignment I-H would result in the greatest diversion of trips from Sherwood Road, while Alignment E (Fir-Co) would have the least potential impact on existing volumes.

Trips were also estimated by using the ratio of developed parcels in each Zone, assuming that 15.1 percent of trips would be from the area north of Brooktrails, with the remaining 74.9 percent allocated based on the percent of parcels in each zone that are developed. These results are indicated in Table 3.

Table 3
Diverted Trip Estimate Based on Developed Parcels

Zone	% of Trips based on Parcels Developed	Resulting Volume Distribution	Alignment A		Alignment E (Fir-Co)		Alignment I-H	
			%	Trips	%	Trips	%	Trips
A	23.8%	1633	0%	0	10%	163	50%	816
B	16.1%	1108	0%	0	5%	55	50%	554
C	23.8%	1633	0%	0	0%	0	60%	980
D	21.2%	1458	80%	1166	0%	0	25%	364
Outside Brooktrails	15.1%	1036	0%	0	55%	570	50%	518
Total Estimated Diverted Trips			1166		788		3232	

Like the volume-based analysis, it is anticipated that the Alignment I-H would result in the greatest potential for diversion, with the Fir-Co route having the least.

Appendix A

Brooktrails Second Access Study Travel Questionnaire

Brooktrails Second Access Study Travel Questionnaire

The purpose of the questionnaire is to gauge the relative attractiveness of three alternative alignments for a second access to the Brooktrails area compared to utilizing Sherwood Road. This information will be used in an analysis being conducted for the Mendocino County Department of Transportation. The purpose of the study is to determine the route that will provide the best service to the Brooktrails community in future years. Please take a few minutes to answer the questions below and return the survey to *Whitlock & Weinberger Transportation, Inc. (W-Trans), 490 Mendocino Avenue, Suite 201, Santa Rosa, CA 95401* by **January 11, 2012**. Your name and address are not needed and all responses will remain confidential.

If you prefer, you can fill the survey out on-line at www.tinyurl.com/brooktrails-survey. If you fill out the survey on-line, please do not mail a hard copy of your responses.

Thank you in advance for your participation

1. How many licensed drivers live at your residence? _____
2. On an average weekday, approximately how many round trips are made by drivers living at your residence? (When any vehicle leaves and then returns to your home, that is one round trip. This includes trips of any length and to any destination during the entire day.) _____
3. On average, approximately what percentage of these daily trips is to destinations other than Willits? This includes to the north (e.g., Laytonville, Eureka), to the south (e.g., Redwood Valley, Ukiah, and Santa Rosa) and to the west (e.g., Fort Bragg). _____
4. Assuming that a freeway bypass with an interchange is built north of Willits, is it more important to you that there is a direct or nearly direct connection to US 101, or is it more important that the second access connect more closely with downtown Willits? (Check one)

Direct or nearly direct connection to US 101 _____

Connect more closely with downtown Willits _____
5. In what zone of Brooktrails (as shown on the enclosed Zone Map) do you reside? (If you reside outside of the zones shown, please check "outside").

Zone _____

Outside _____

Please review the enclosed exhibits showing the alternative alignments in order to respond to the following questions.

6. Of the routes presented on the exhibits, including Sherwood Road, which one would you typically use?

a. Alignment A: _____

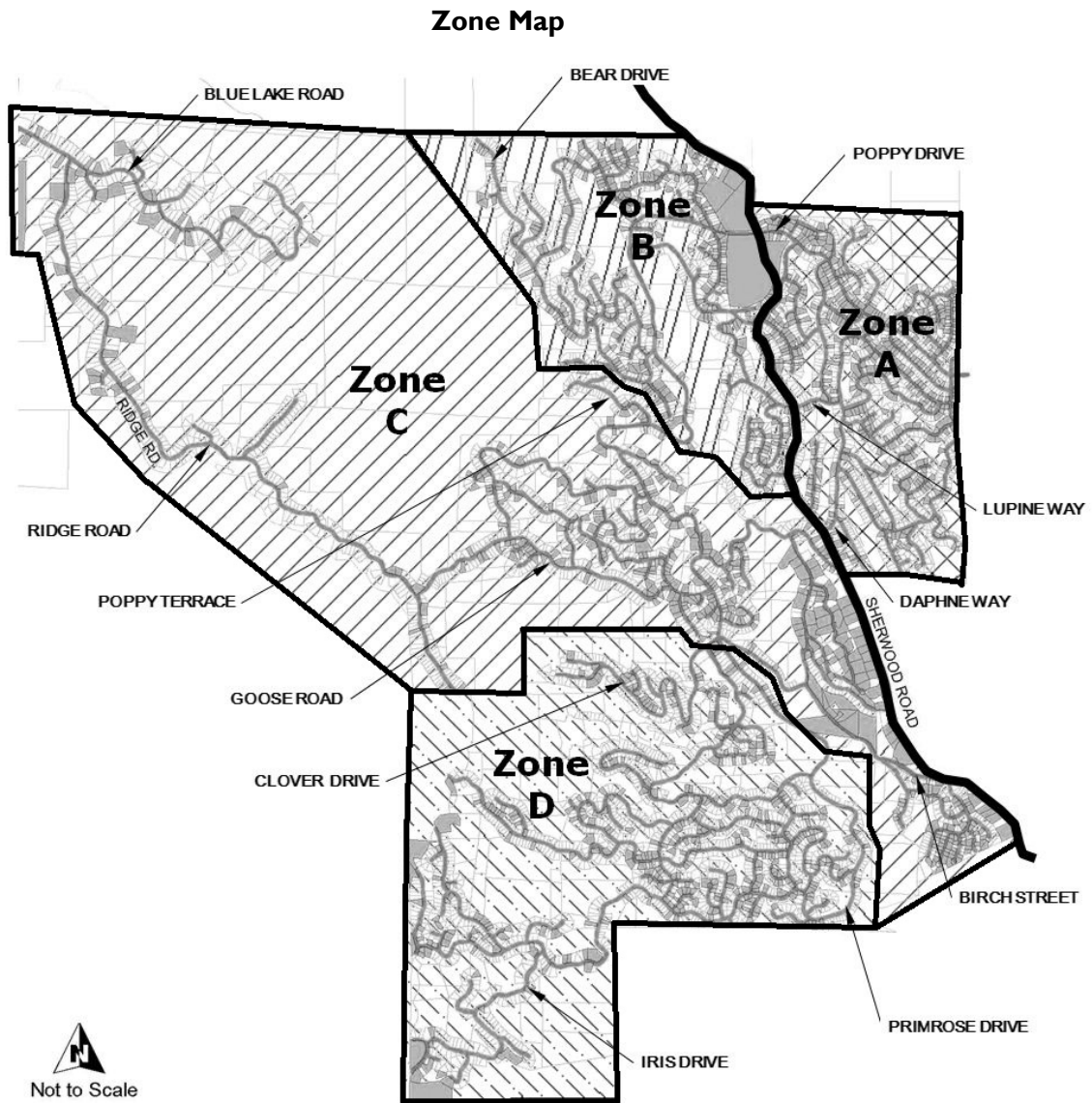
b. FirCo Haul Road - Alignment E: _____

c. Alignment I-H: _____

d. Sherwood Road: _____

7. Please provide comment(s) as to why you would typically use the selected route.

8. Thank you for participating in this survey. Do you have any other comments or suggestions?

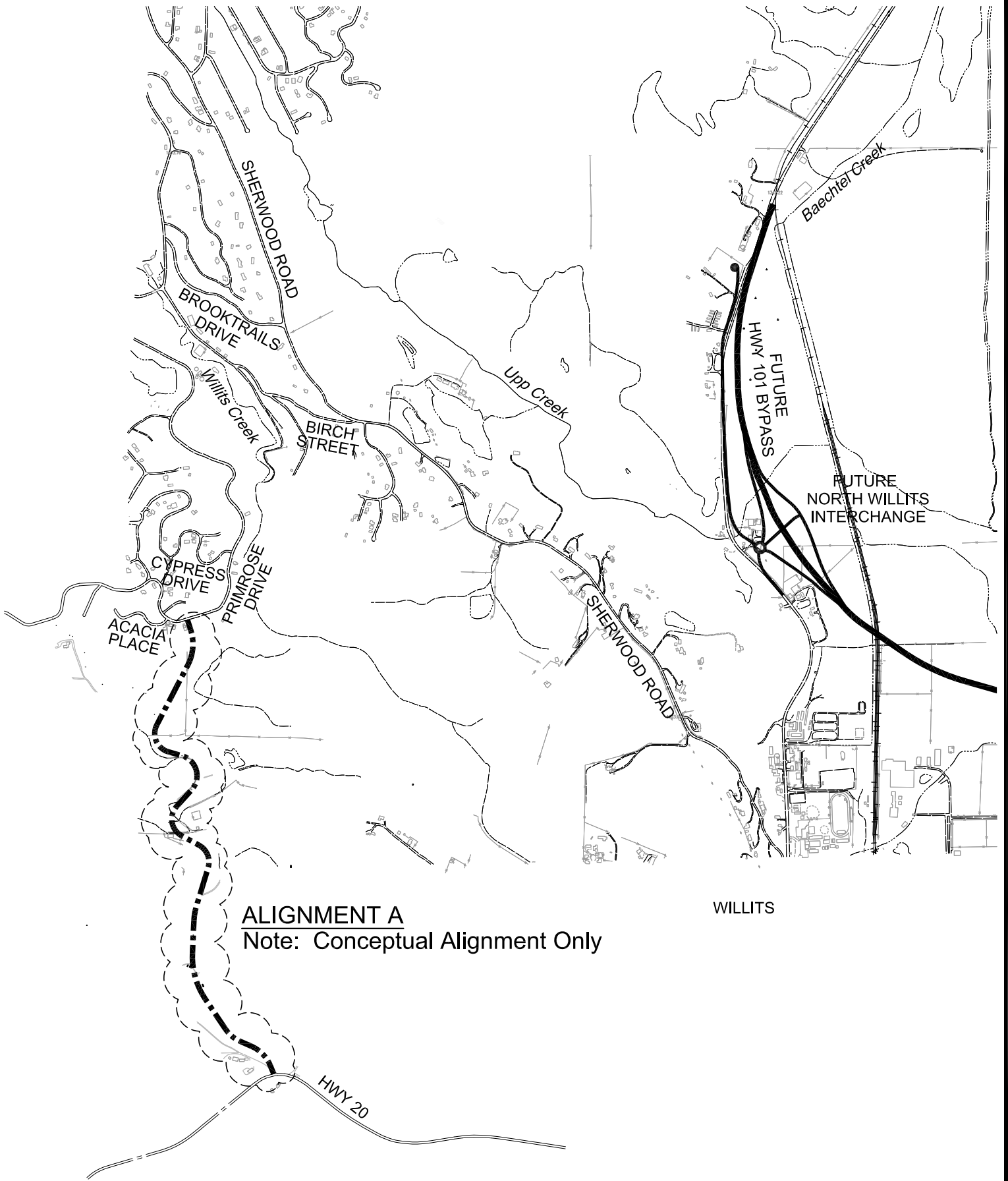


The following three exhibits depict alternative alignments being considered for the Brooktrails Second Access route. Sherwood Road and the north interchange for the proposed US 101 Bypass are also depicted.

Alignment A would connect directly to Highway 20 at a new intersection, with access to Willits provided by Highway 20. Access to points north of Willits would be via Main Street in Willits north to the new north Bypass interchange. Access to points south would be from Main Street in Willits along the existing route to a new US 101 Bypass interchange south of Willits (not shown on the exhibit).

The FirCo Haul Road - Alignment E would connect with Sherwood Road at a point north of Poppy Drive and extend east and then south to a frontage road that then connects to the new north interchange with the US 101 Bypass. Access to points north and south would be available from this new freeway interchange. Access to Willits would be available by continuing southbound through the roundabout to North Main Street.

Alignment I-H would intersect Sherwood Road approximately at the intersection of Primrose Drive and extend southeasterly to a new frontage road at a point very near the new north US 101 Bypass interchange. Access to points north and south would be available from this new freeway interchange. Access to Willits would be available by continuing south through the roundabout to North Main Street.

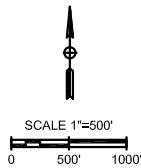


ALIGNMENT A
 Note: Conceptual Alignment Only

WILLITS



BROOKTRAILS SECOND ACCESS
 SUPPLEMENTAL FEASIBILITY STUDY
 MENDOCINO COUNTY -
 DEPARTMENT OF TRANSPORTATION



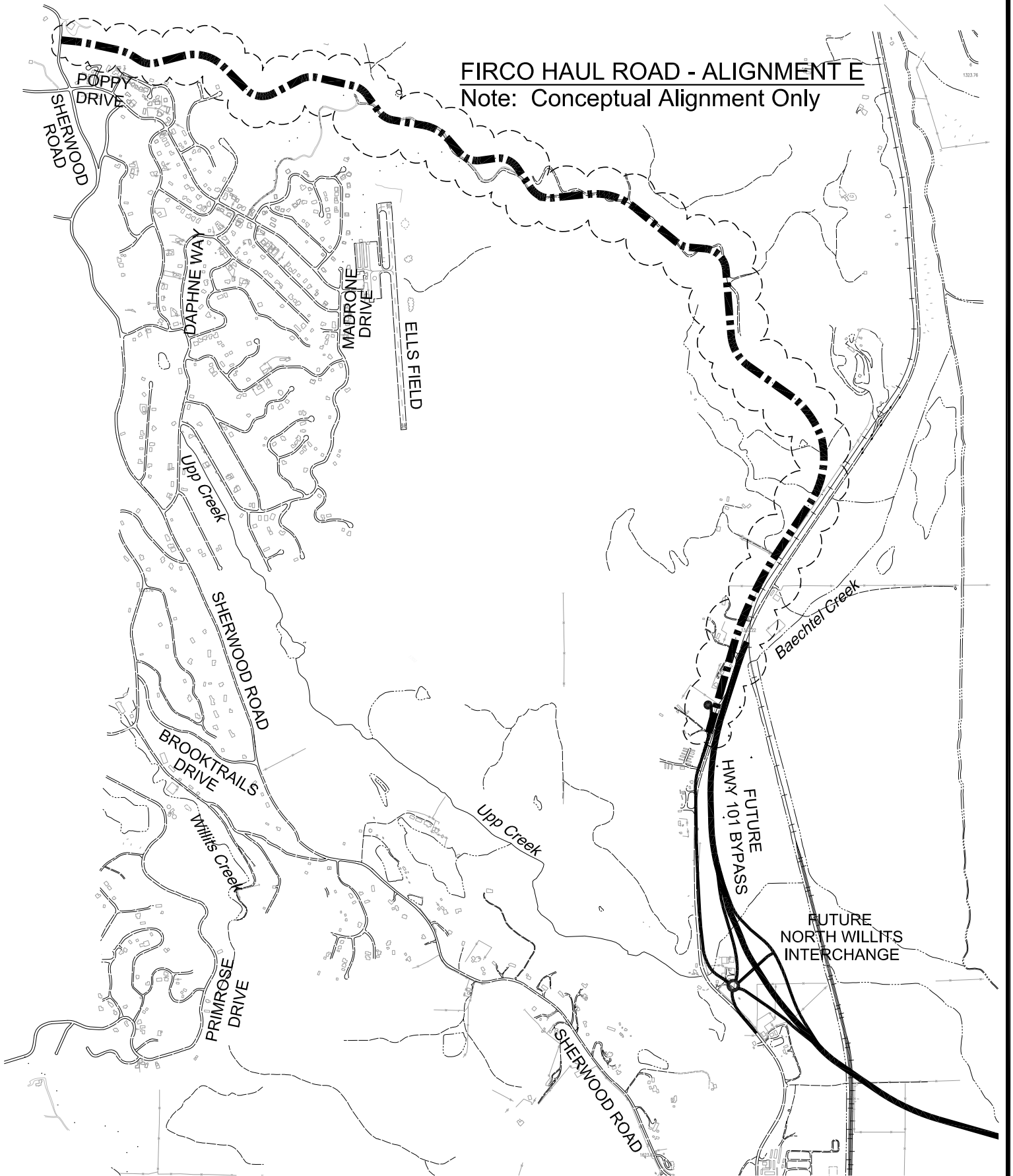
LEGEND

— EXISTING ROADWAYS

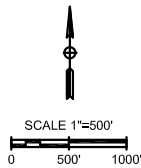


FIRCO HAUL ROAD - ALIGNMENT E

Note: Conceptual Alignment Only



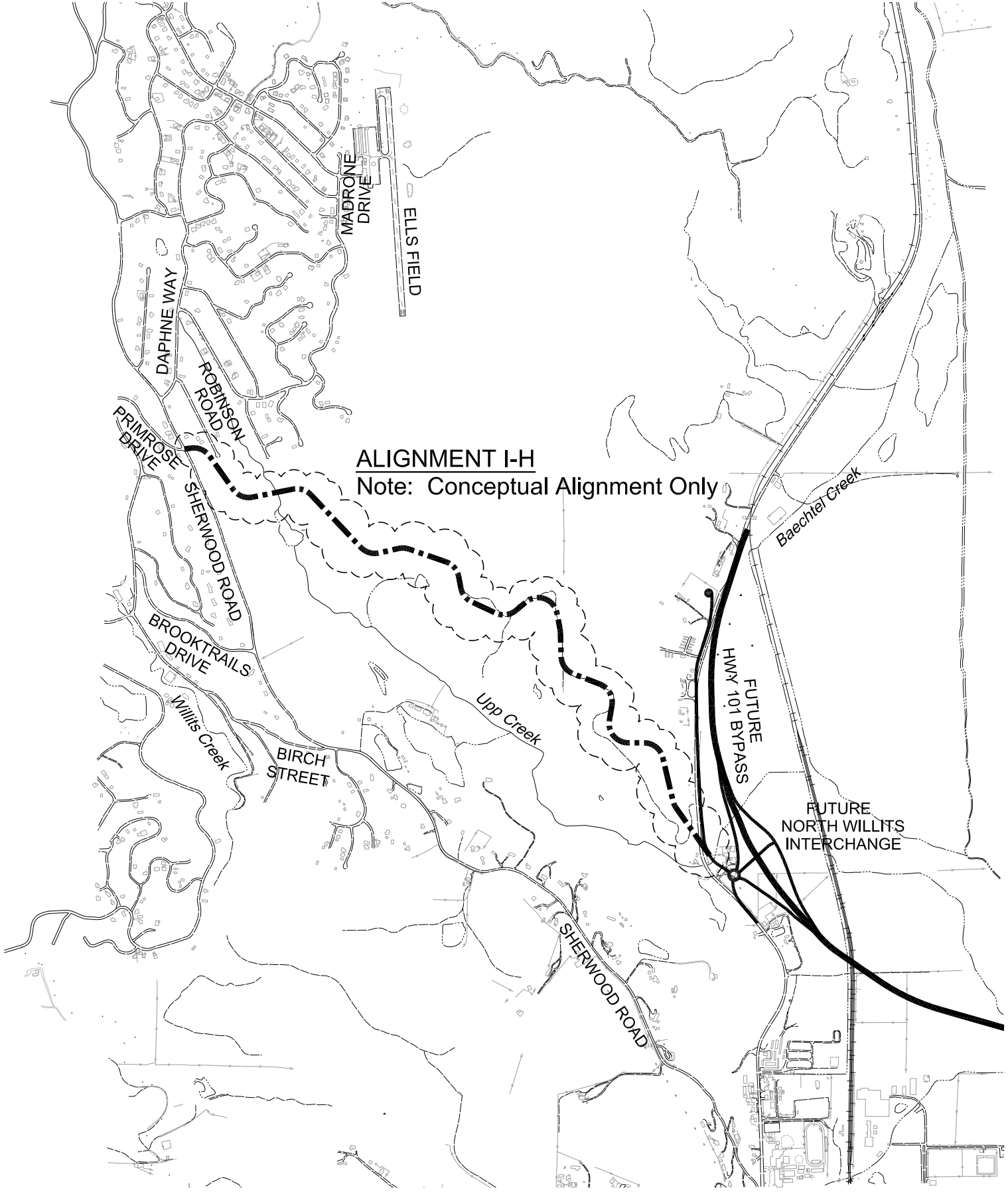
BROOKTRAILS SECOND ACCESS
SUPPLEMENTAL FEASIBILITY STUDY
MENDOCINO COUNTY -
DEPARTMENT OF TRANSPORTATION



LEGEND

— EXISTING ROADWAYS





ALIGNMENT I-H

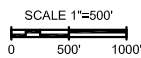
Note: Conceptual Alignment Only

BROOKTRAILS SECOND ACCESS
 SUPPLEMENTAL FEASIBILITY STUDY
 MENDOCINO COUNTY -
 DEPARTMENT OF TRANSPORTATION



LEGEND

— EXISTING ROADWAYS



Appendix B

Travel Questionnaire – Summary of Responses

**Brooktrails Second Access Study Travel Questionnaire
Summary of Responses**

1. How many licensed drivers live at your residence?

	1	2	3	4	5	8	
Mail-in	52	111	18	8	0	1	
On-line	9	43	16	5	1	0	
Total	61	154	34	13	1	1	264
Percentage	23.1%	58.3%	12.9%	4.9%	0.4%	0.4%	

2. On an average weekday, approximately how many round trips per day are made by drivers living at your residence? (When any vehicle leaves and then returns to your home, that is one round trip. This includes trips of any length and to any destination during the entire day.)

	1	2	3	4	5	6	7	8	10	11	12	14	15	17	20	25	
Mail-in	54	50	26	11	8	9	5	5	7	1	2	3	0	1	1	1	
On-line	13	25	14	8	6	3	1	0	1	0	0	0	1	0	0	0	
Total	67	75	40	19	14	12	6	5	8	1	2	3	1	1	1	1	256
Percentage	26.2%	29.3%	15.6%	7.4%	5.5%	4.7%	2.3%	2.0%	3.1%	0.4%	0.8%	1.2%	0.4%	0.4%	0.4%	0.4%	

3. On average, approximately what percentage of these daily trips are to destinations other than Willits? This includes to the north (e.g., Laytonville, Eureka), to the south (e.g., Redwood Valley, Ukiah, and Santa Rosa), and to the west (e.g. Fort Bragg).

	0	1	3	5	10	15	20	25	30	33	35	40	45	50	55	60	65	70	75	80	85	90	95	100	
Mail-in	18	9	4	12	19	6	9	14	9	7	3	3	2	39	0	1	0	0	4	4	0	1	3	15	
On-line	8	3	4	5	7	0	2	3	1	4	1	2	0	12	0	0	0	0	2	0	0	3	0	15	
Total	26	12	8	17	26	6	11	17	10	11	4	5	2	51	0	1	0	0	6	4	0	4	3	30	254
Percentage	10.2%	4.7%	3.1%	6.7%	10.2%	2.4%	4.3%	6.7%	3.9%	4.3%	1.6%	2.0%	0.8%	20.1%	0.0%	0.4%	0.0%	0.0%	2.4%	1.6%	0.0%	1.6%	1.2%	11.8%	

4. Assuming that a freeway bypass with an interchange is built north of Willits, is it more important to you that there is a direct or nearly direct connection to US 101, or is it more important that the second access connect more closely with downtown Willits? (Check one)

	US 101	Willits	
Mail-in	101	86	
On-line	37	32	
Total	138	118	256
Percentage	54%	46%	

5. In what zone of Brooktrails (as shown in the exhibit below) do you reside? If you reside outside of the zones shown below, please check "outside".

	A	B	C	D	O	
Mail-in	47	25	33	49	35	
On-line	21	11	15	20	6	
Total	68	36	48	69	41	262
Percentage	26%	14%	18%	26%	16%	

6. Of the routes presented on the exhibits, including Sherwood Road, which one would you typically use?

	S	E	I-H	A	
Mail-in	46	23	74	48	
On-line	14	9	29	21	
Total	60	32	103	69	264
Percentage	23%	12%	39%	26%	

Appendix C
Traffic Count Summary

Sherwood Road:	Daily Traffic Volumes			Percent Coming from Zone				Zone Contribution to Sherwood				
	Northbound	Southbound	Total	A	B	C	D	A	B	C	D	Other
South of Birch	3411	3457	6868			10%	90%			246	2214	
Birch to Brooktrails	2207	2201	4408			10%	90%			24	216	
South of Primrose	2061	2107	4168			100%				13		
Primrose to Daphne	2075	2080	4155			100%				1632		
South of Lupine	1271	1252	2523	90%	10%			982	109			
South of Poppy	698	734	1432	25%	75%			99	297			
North of Poppy	515	521	1036									1036
Totals:								15.7%	5.9%	27.9%	35.4%	15.1%
								1080.9	406	1915	2430	1036

Trip Time Summary (in minutes)

All Trips estimated from the centroid of the Zone to the intersection of US 101/SR 20	From Zone	Via Alignment:			Via
		A	FIRCO	I-H	Sherwood
	A	20.00	12.00	10.25	9.75
	B	20.50	14.50	12.25	11.75
	C	16.25	17.75	11.50	11.25
	D	11.75	21.25	14.75	14.50

Zone	% of Trips on Sherwood	Number of Trips added to Sherwood	Diverted Trip Estimate based on Volumes					
			Alignment A		Alignment E (Fir-Co)		Alignment I-H	
			%	Trips	%	Trips	%	Trips
A		1081	0%	0	10%	108	50%	540
B		406	0%	0	5%	20	50%	203
C		1915	0%	0	0%	0	60%	1149
D		2430	80%	1944	0%	0	25%	608
Outside Brooktrails		1036	0%	0	55%	570	50%	518
Total Estimated Diverted Trips				1944		698		3018

% of Parcels		Number of Trips added to Sherwood	Diverted Trip Estimate based on Parcels					
			Alignment A		Alignment E		Alignment I-H	
			%	Trips	%	Trips	%	Trips
23.8%		1633	0%	0	10%	163	50%	817
16.1%		1108	0%	0	5%	55	50%	554
23.8%		1633	0%	0	0%	0	60%	980
21.2%		1458	80%	1166	0%	0	25%	365
15.1%		1036	0%	0	55%	570	50%	518
Total Estimated Diverted Trips				1166		789		3233

Appendix D
Travel Time Calculations

Route Distances From Zone A-D Centroids to US101/SR20 via Sherwood, A, FIRCO, and I-H Alignments
(Link distances calculated in seconds by ArcGIS)

Assumptions on link speed:

SR20, US101 - Speed limit, no signal delay (SR 20 has less signals, so would have less delay)

Sherwood Road - 30MPH

FIRCO Alignment - 40MPH while parallel to US101, 25MPH otherwise

Alignment A, I-H - 25 MPH

Elsewhere - 20MPH

Potential Further Refinement:

Larger roads within the system, such as Primrose Dr, Poppy Drive, get 25MPH

Possibly lower Sherwood Road's speed to 25MPH

Summary:

Zone	Alignment			
	Sherwood	A	FIRCO	I-H
A	9.75 min	20 min	12 min	10.25 min
B	11.75 min	20.5 min	14.5 min	12.25 min
C	11.25 min	16.25 min	17.75 min	11.5 min
D	14.5 min	11.75 min	21.25 min	14.75 min

Zone A				
Route	Sherwood	A	FIRCO	I-H
Link 1:	116	383	116	116
Link 2:	330	244	77	77
Link 3:	17	254	310	278
Link 4:	82	32	76	17
Link 5:	38	28	114	82
Link 6:		128	34	38
Link 7:		17		
Link 8		82		
Link 9:		38		
Total Time:	583	1206	727	608
Total (in minutes):	9.75 min	20 min	12 min	10.25 min

Zone B				
Route	Sherwood	A	FIRCO	I-H
Link 1:	116	383	116	116
Link 2:	330	244	77	77
Link 3:	17	254	310	278
Link 4:	96	32	76	17
Link 5:	115	28	156	96
Link 6:	30	286	139	115
Link 7:				30
Link 8				
Link 9:				
Total Time:	704	1227	874	729
Total (in minutes):	11.75 min	20.5 min	14.5 min	12.25 min

Zone C				
Route	Sherwood	A	FIRCO	I-H
Link 1:	116	383	116	116
Link 2:	330	244	77	77
Link 3:	128	254	310	278
Link 4:	28	32	76	128
Link 5:	67	67	114	28
Link 6:			57	67
Link 7:			82	
Link 8			17	
Link 9:			128	
Link 10:			28	
Link 11:			67	
Link 12:				
Total Time:	669	980	1072	694
Total (in minutes):	11.25 min	16.25 min	17.75 min	11.5 min

Zone D				
Route	Sherwood	A	FIRCO	I-H
Link 1:	116	383	116	116
Link 2:	330	244	77	77
Link 3:	128	81	310	278
Link 4:	28		76	128
Link 5:	32		114	28
Link 6:	232		57	32
Link 7:			82	232
Link 8			17	
Link 9:			128	
Link 10:			28	
Link 11:			32	
Link 12:			232	
Total Time:	866	708	1269	891
Total (in minutes):	14.5 min	11.75 min	21.25 min	14.75 min

Appendix E
Sherwood Road Traffic Counts

Prepared by NDS/ATD

Volumes for: Wednesday, November 7, 2011

City: Mendocino County

Project #: 11-7520-001

Location: Sherwood Road south of Birch Street.

Start Time	Northbound		Hour Totals		Southbound		Hour Totals		Combined Totals	
	Morning	Afternoon	Morning	Afternoon	Morning	Afternoon	Morning	Afternoon	Morning	Afternoon
12:00	6	48			6	67				
12:15	6	54			1	55				
12:30	6	48			4	51				
12:45	6	66	24	216	1	49	12	222	36	438
1:00	1	49			0	58				
1:15	5	47			4	58				
1:30	6	55			5	66				
1:45	4	45	16	196	1	52	10	234	26	430
2:00	1	66			1	68				
2:15	2	56			2	67				
2:30	2	63			3	55				
2:45	0	80	5	265	2	56	8	246	13	511
3:00	2	68			1	54				
3:15	2	75			4	55				
3:30	2	69			2	54				
3:45	3	83	9	295	4	58	11	221	20	516
4:00	0	84			1	44				
4:15	0	91			3	39				
4:30	0	92			6	52				
4:45	3	71	3	338	5	53	15	188	18	526
5:00	1	114			9	50				
5:15	0	98			16	48				
5:30	1	121			17	32				
5:45	2	135	4	468	15	49	57	179	61	647
6:00	2	110			22	40				
6:15	4	104			30	50				
6:30	2	82			34	29				
6:45	5	72	13	368	61	24	147	143	160	511
7:00	7	71			69	24				
7:15	8	59			101	25				
7:30	13	55			109	25				
7:45	15	44	43	229	101	16	380	90	423	319
8:00	16	41			154	22				
8:15	34	26			97	19				
8:30	37	47			90	11				
8:45	43	45	130	159	66	19	407	71	537	230
9:00	23	41			80	16				
9:15	33	31			54	10				
9:30	32	22			64	14	0			
9:45	33	25	121	119	54	11	252	51	373	170
10:00	26	23			63	7				
10:15	39	18			49	7				
10:30	35	6			60	5				
10:45	42	12	142	59	48	15	220	34	362	93
11:00	40	4			47	7				
11:15	46	13			63	3				
11:30	30	4			80	3				
11:45	42	10	158	31	54	2	244	15	402	46
Total	668	2743	668	2743	1763	1694	1763	1694	2431	4437
Combined Total	3411		3411		3457		3457		6868	
AM Peak	11:45 AM				7:15 AM					
Vol.	192				465					
P.H.F.	0.889				0.755					
PM Peak	5:30 PM				1:30 PM					
Vol.	470				253					
P.H.F.	0.881				0.930					
Percentage	19.6%	80.4%			51.0%	49.0%				

Prepared by NDS/ATD

Volumes for: Wednesday, November 7, 2011

City: Mendocino County

Project #: 11-7520-002

Location: Sherwood Road between Brooktrails Drive and Birch Street.

Start Time	Northbound		Hour Totals		Southbound		Hour Totals		Combined Totals	
	Morning	Afternoon	Morning	Afternoon	Morning	Afternoon	Morning	Afternoon	Morning	Afternoon
12:00	4	35			1	50				
12:15	5	39			0	35				
12:30	5	24			3	30				
12:45	3	38	17	136	0	33	4	148	21	284
1:00	0	29			0	43				
1:15	1	31			4	40				
1:30	4	40			3	47				
1:45	2	36	7	136	1	33	8	163	15	299
2:00	0	44			1	49				
2:15	2	39			1	51				
2:30	0	46			4	32				
2:45	1	49	3	178	0	31	6	163	9	341
3:00	0	37			1	32				
3:15	2	57			2	28				
3:30	2	45			3	39				
3:45	2	54	6	193	2	38	8	137	14	330
4:00	0	60			1	29				
4:15	0	59			0	32				
4:30	0	66			4	25				
4:45	0	50	0	235	2	34	7	120	7	355
5:00	2	69			6	35				
5:15	0	67			6	30				
5:30	0	78			12	16				
5:45	0	81	2	295	8	32	32	113	34	408
6:00	1	65			16	30				
6:15	3	62			17	33				
6:30	2	56			19	17				
6:45	4	44	10	227	30	12	82	92	92	319
7:00	5	46			51	13				
7:15	5	37			60	20				
7:30	10	32			68	17				
7:45	8	33	28	148	69	9	248	59	276	207
8:00	12	24			94	12				
8:15	19	17			66	12				
8:30	29	29			49	4				
8:45	29	20	89	90	45	7	254	35	343	125
9:00	16	27			51	9				
9:15	24	18			30	7				
9:30	18	9			42	8	0			
9:45	23	21	81	75	37	7	160	31	241	106
10:00	21	10			41	5				
10:15	20	11			33	4				
10:30	25	4			44	1				
10:45	31	8	97	33	33	12	151	22	248	55
11:00	29	2			29	3				
11:15	35	7			34	3				
11:30	14	3			51	2				
11:45	26	5	104	17	34	2	148	10	252	27
Total	444	1763	444	1763	1108	1093	1108	1093	1552	2856
Combined Total	2207		2207		2201		2201		4408	
AM Peak	11:45 AM				7:30 AM					
Vol.	124				297					
P.H.F.	0.795				0.790					
PM Peak	5:00 PM				1:30 PM					
Vol.	295				180					
P.H.F.	0.936				0.882					
Percentage	20.1%	79.9%			50.3%	49.7%				

Prepared by NDS/ATD

Volumes for: Wednesday, November 7, 2011

City: Mendocino County

Project #: 11-7520-003

Location: Sherwood Road south of Primrose Drive.

Start Time	Northbound		Hour Totals		Southbound		Hour Totals		Combined Totals	
	Morning	Afternoon	Morning	Afternoon	Morning	Afternoon	Morning	Afternoon	Morning	Afternoon
12:00	3	26			1	45				
12:15	5	28			1	27				
12:30	3	29			3	29				
12:45	4	29	15	112	0	32	5	133	20	245
1:00	0	27			0	37				
1:15	2	29			3	39				
1:30	3	31			3	45				
1:45	3	37	8	124	2	36	8	157	16	281
2:00	0	41			1	45				
2:15	1	39			1	49				
2:30	1	46			5	29				
2:45	2	44	4	170	0	31	7	154	11	324
3:00	0	33			1	31				
3:15	1	55			2	24				
3:30	1	44			3	38				
3:45	3	51	5	183	2	34	8	127	13	310
4:00	0	57			1	26				
4:15	0	48			0	32				
4:30	0	58			4	22				
4:45	0	52	0	215	2	33	7	113	7	328
5:00	1	62			6	34				
5:15	0	59			6	30				
5:30	0	73			12	16				
5:45	0	75	1	269	7	30	31	110	32	379
6:00	0	61			16	30				
6:15	2	55			16	28				
6:30	1	59			19	15				
6:45	4	38	7	213	32	12	83	85	90	298
7:00	5	43			48	11				
7:15	4	39			56	22				
7:30	8	31			67	15				
7:45	8	33	25	146	65	10	236	58	261	204
8:00	12	25			91	10				
8:15	17	16			60	12				
8:30	25	27			45	5				
8:45	29	20	83	88	44	9	240	36	323	124
9:00	16	25			43	9				
9:15	25	16			31	9				
9:30	18	7			38	7	0			
9:45	18	22	77	70	35	7	147	32	224	102
10:00	22	8			39	7				
10:15	17	11			44	5				
10:30	27	4			39	2				
10:45	32	8	98	31	35	11	157	25	255	56
11:00	27	3			25	4				
11:15	32	7			33	3				
11:30	17	3			46	2				
11:45	23	5	99	18	33	2	137	11	236	29
Total	422	1639	422	1639	1066	1041	1066	1041	1488	2680
Combined Total	2061		2061		2107		2107		4168	
AM Peak	10:30 AM				7:30 AM					
Vol.	118				283					
P.H.F.	0.922				0.777					
PM Peak		5:00 PM				1:30 PM				
Vol.		269				175				
P.H.F.		0.914				0.893				
Percentage	20.5%	79.5%			50.6%	49.4%				

Prepared by NDS/ATD

Volumes for: Wednesday, November 7, 2011

City: Mendocino County

Project #: 11-7520-004

Location: Sherwood Road between Daphne Way and Primrose Drive.

Start Time	Northbound		Hour Totals		Southbound		Hour Totals		Combined Totals	
	Morning	Afternoon	Morning	Afternoon	Morning	Afternoon	Morning	Afternoon	Morning	Afternoon
12:00	4	32			2	46				
12:15	4	26			0	26				
12:30	4	32			3	29				
12:45	4	27	16	117	0	36	5	137	21	254
1:00	0	31			0	35				
1:15	2	30			3	40				
1:30	3	29			3	35				
1:45	2	38	7	128	1	32	7	142	14	270
2:00	0	41			1	48				
2:15	1	32			1	47				
2:30	2	46			5	29				
2:45	2	49	5	168	0	31	7	155	12	323
3:00	0	31			1	40				
3:15	1	53			2	20				
3:30	1	45			3	40				
3:45	3	53	5	182	2	28	8	128	13	310
4:00	0	56			1	33				
4:15	0	50			0	34				
4:30	0	61			3	28				
4:45	0	50	0	217	2	34	6	129	6	346
5:00	1	65			6	34				
5:15	0	64			5	26				
5:30	1	69			11	20				
5:45	0	76	2	274	7	36	29	116	31	390
6:00	1	54			17	28				
6:15	1	54			14	27				
6:30	2	56			18	16				
6:45	4	41	8	205	31	10	80	81	88	286
7:00	5	38			43	11				
7:15	4	40			52	25				
7:30	8	32			66	14				
7:45	8	29	25	139	60	8	221	58	246	197
8:00	13	24			87	10				
8:15	17	20			57	14				
8:30	27	27			42	3				
8:45	29	19	86	90	47	9	233	36	319	126
9:00	16	27			46	14				
9:15	26	15			31	8				
9:30	22	7			43	7	0			
9:45	17	19	81	68	33	5	153	34	234	102
10:00	19	8			40	7				
10:15	21	10			37	3				
10:30	28	5			38	3				
10:45	30	9	98	32	32	8	147	21	245	53
11:00	30	3			30	4				
11:15	30	7			25	4				
11:30	19	3			47	2				
11:45	25	5	104	18	33	2	135	12	239	30
Total	437	1638	437	1638	1031	1049	1031	1049	1468	2687
Combined Total	2075		2075		2080		2080		4155	
AM Peak	10:30 AM				7:30 AM					
Vol.	118				270					
P.H.F.	0.983				0.776					
PM Peak	5:00 PM				1:30 PM					
Vol.	274				162					
P.H.F.	0.967				0.844					
Percentage	21.1%	78.9%			49.6%	50.4%				

Prepared by NDS/ATD

Volumes for: Wednesday, November 7, 2011

City: Mendocino County

Project #: 11-7520-005

Location: Sherwood Road south of Lupine Way.

Start Time	Northbound		Hour Totals		Southbound		Hour Totals		Combined Totals	
	Morning	Afternoon	Morning	Afternoon	Morning	Afternoon	Morning	Afternoon	Morning	Afternoon
12:00	1	16			1	26				
12:15	4	21			0	19				
12:30	3	17			2	20				
12:45	2	21	10	75	0	14	3	79	13	154
1:00	0	18			0	22				
1:15	1	22			1	23				
1:30	3	17			0	22				
1:45	0	21	4	78	0	20	1	87	5	165
2:00	0	28			0	30				
2:15	1	14			1	32				
2:30	0	30			4	20				
2:45	1	30	2	102	1	18	6	100	8	202
3:00	0	22			0	20				
3:15	1	28			1	21				
3:30	0	29			2	24				
3:45	2	26	3	105	1	20	4	85	7	190
4:00	0	31			0	19				
4:15	0	35			0	25				
4:30	0	41			1	13				
4:45	0	29	0	136	1	20	2	77	2	213
5:00	2	34			2	18				
5:15	0	45			3	21				
5:30	1	40			6	20				
5:45	0	41	3	160	4	22	15	81	18	241
6:00	0	37			11	16				
6:15	0	31			6	11				
6:30	1	36			13	11				
6:45	2	22	3	126	17	6	47	44	50	170
7:00	2	31			29	8				
7:15	5	18			35	17				
7:30	4	19			39	5				
7:45	7	21	18	89	33	5	136	35	154	124
8:00	6	15			52	6				
8:15	17	13			31	5				
8:30	15	12			29	2				
8:45	16	7	54	47	28	6	140	19	194	66
9:00	19	16			26	8				
9:15	18	9			13	2				
9:30	15	7			28	3	0			
9:45	11	7	63	39	25	2	92	15	155	54
10:00	12	8			19	5				
10:15	11	2			23	0				
10:30	17	3			21	1				
10:45	22	4	62	17	18	4	81	10	143	27
11:00	20	1			18	3				
11:15	21	2			16	3				
11:30	11	0			28	1				
11:45	16	4	68	7	22	2	84	9	152	16
Total	290	981	290	981	611	641	611	641	901	1622
Combined Total	1271		1271		1252		1252		2523	
AM Peak	10:30 AM				7:15 AM					
Vol.	80				159					
P.H.F.	0.909				0.764					
PM Peak	5:15 PM				1:30 PM					
Vol.	163				104					
P.H.F.	0.928				0.813					
Percentage	22.8%	77.2%			48.8%	51.2%				

Prepared by NDS/ATD

Volumes for: Wednesday, November 7, 2011

City: Mendocino County

Project #: 11-7520-006

Location: Sherwood Road south of Poppy Drive.

Start Time	Northbound		Hour Totals		Southbound		Hour Totals		Combined Totals	
	Morning	Afternoon	Morning	Afternoon	Morning	Afternoon	Morning	Afternoon	Morning	Afternoon
12:00	0	5			0	17				
12:15	4	13			1	4				
12:30	2	9			1	12				
12:45	0	14	6	41	0	9	2	42	8	83
1:00	0	13			0	14				
1:15	0	13			0	14				
1:30	1	10			0	15				
1:45	0	16	1	52	0	14	0	57	1	109
2:00	0	18			0	21				
2:15	0	6			0	16				
2:30	0	14			2	18				
2:45	0	17	0	55	0	11	2	66	2	121
3:00	0	13			0	13				
3:15	0	17			0	17				
3:30	0	13			2	16				
3:45	1	16	1	59	0	13	2	59	3	118
4:00	0	13			0	13				
4:15	0	19			0	16				
4:30	0	24			1	8				
4:45	0	13	0	69	1	9	2	46	2	115
5:00	1	18			1	11				
5:15	0	20			1	6				
5:30	0	20			5	9				
5:45	0	28	1	86	1	11	8	37	9	123
6:00	0	17			8	9				
6:15	0	14			5	12				
6:30	0	29			8	3				
6:45	0	10	0	70	8	3	29	27	29	97
7:00	2	18			15	4				
7:15	1	7			22	11				
7:30	2	14			13	4				
7:45	1	6	6	45	22	4	72	23	78	68
8:00	4	10			25	2				
8:15	8	5			15	2				
8:30	12	7			20	1				
8:45	7	5	31	27	13	6	73	11	104	38
9:00	8	8			18	4				
9:15	14	6			9	1				
9:30	9	3			20	2	0			
9:45	6	3	37	20	18	1	65	8	102	28
10:00	6	5			13	2				
10:15	7	2			15	0				
10:30	14	1			10	1				
10:45	7	1	34	9	11	1	49	4	83	13
11:00	11	0			13	2				
11:15	14	1			3	2				
11:30	8	0			11	0				
11:45	11	3	44	4	17	2	44	6	88	10
Total	161	537	161	537	348	386	348	386	509	923
Combined Total	698		698		734		734		1432	
AM Peak	10:30 AM				7:15 AM					
Vol.	46				82					
P.H.F.	0.821				0.820					
PM Peak		5:45 PM				1:45 PM				
Vol.		88				69				
P.H.F.		0.652				0.821				
Percentage	23.1%	76.9%			47.4%	52.6%				

Prepared by NDS/ATD

Volumes for: Wednesday, November 7, 2011

City: Mendocino County

Project #: 11-7520-007

Location: Sherwood Road north of Poppy Drive.

Start Time	Northbound		Hour Totals		Southbound		Hour Totals		Combined Totals	
	Morning	Afternoon	Morning	Afternoon	Morning	Afternoon	Morning	Afternoon	Morning	Afternoon
12:00	0	3			0	11				
12:15	2	10			0	5				
12:30	3	4			1	8				
12:45	0	11	5	28	0	7	1	31	6	59
1:00	0	12			0	14				
1:15	0	11			0	9				
1:30	0	6			0	14				
1:45	0	15	0	44	0	11	0	48	0	92
2:00	0	15			0	21				
2:15	0	5			0	13				
2:30	0	12			1	13				
2:45	0	11	0	43	0	8	1	55	1	98
3:00	0	6			0	11				
3:15	0	10			0	16				
3:30	0	8			1	15				
3:45	1	12	1	36	0	8	1	50	2	86
4:00	0	7			0	8				
4:15	0	14			0	13				
4:30	0	14			0	8				
4:45	1	12	1	47	0	5	0	34	1	81
5:00	2	12			1	10				
5:15	0	13			1	4				
5:30	0	10			3	9				
5:45	0	18	2	53	1	8	6	31	8	84
6:00	0	11			2	5				
6:15	1	10			3	6				
6:30	2	17			4	4				
6:45	0	8	3	46	3	2	12	17	15	63
7:00	2	10			12	4				
7:15	3	5			10	9				
7:30	1	7			5	2				
7:45	1	2	7	24	18	1	45	16	52	40
8:00	4	4			14	2				
8:15	12	2			5	2				
8:30	12	8			12	0				
8:45	5	3	33	17	9	3	40	7	73	24
9:00	5	5			13	3				
9:15	11	3			8	2				
9:30	4	2			12	1	0			
9:45	3	3	23	13	13	0	46	6	69	19
10:00	7	4			8	2				
10:15	9	2			9	0				
10:30	13	1			6	0				
10:45	9	1	38	8	11	0	34	2	72	10
11:00	13	1			13	0				
11:15	14	1			2	1				
11:30	3	0			11	0				
11:45	9	2	39	4	9	2	35	3	74	7
Total	152	363	152	363	221	300	221	300	373	663
Combined Total	515		515		521		521		1036	
AM Peak	10:30 AM				7:45 AM					
Vol.	49				49					
P.H.F.	0.875				0.681					
PM Peak		5:45 PM				1:30 PM				
Vol.		56				59				
P.H.F.		0.681				0.702				
Percentage	29.5%	70.5%			42.4%	57.6%				

Appendix F
Intersection Turn Movement Counts

All Traffic Data

(916) 771-8700

Mendocino County

File Name : 11-7521-001 US 101-Sherwood

Site Code : 00000000

Start Date : 12/7/2011

Page No : 1

Groups Printed- Unshifted

Start Time	US-101 Southbound				Westbound				US-101 Northbound				Sherwood Road Eastbound				Int. Total
	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	
07:00	0	30	2	32	0	0	0	0	11	46	0	57	15	0	72	87	176
07:15	0	52	5	57	0	0	0	0	9	51	0	60	16	0	99	115	232
07:30	0	70	3	73	0	0	0	0	7	65	0	72	13	0	89	102	247
07:45	0	113	3	116	0	0	0	0	15	138	0	153	34	0	104	138	407
Total	0	265	13	278	0	0	0	0	42	300	0	342	78	0	364	442	1062
08:00	0	116	3	119	0	0	0	0	35	103	0	138	12	0	105	117	374
08:15	0	65	2	67	0	0	0	0	37	64	0	101	9	0	93	102	270
08:30	0	51	1	52	0	0	0	0	41	51	0	92	4	0	49	53	197
08:45	0	49	0	49	0	0	0	0	22	40	0	62	5	0	81	86	197
Total	0	281	6	287	0	0	0	0	135	258	0	393	30	0	328	358	1038
16:00	0	85	11	96	0	0	0	0	109	77	0	186	4	0	29	33	315
16:15	0	82	16	98	0	0	0	0	98	69	0	167	2	0	45	47	312
16:30	0	73	9	82	0	0	0	0	94	66	0	160	6	0	51	57	299
16:45	0	66	6	72	0	0	0	0	79	65	0	144	2	0	44	46	262
Total	0	306	42	348	0	0	0	0	380	277	0	657	14	0	169	183	1188
17:00	0	67	10	77	0	0	0	0	103	68	0	171	4	0	43	47	295
17:15	0	72	11	83	0	0	0	0	119	86	0	205	6	0	47	53	341
17:30	0	72	8	80	0	0	0	0	114	63	0	177	2	0	47	49	306
17:45	0	72	5	77	0	0	0	0	98	75	0	173	4	0	47	51	301
Total	0	283	34	317	0	0	0	0	434	292	0	726	16	0	184	200	1243
Grand Total	0	1135	95	1230	0	0	0	0	991	1127	0	2118	138	0	1045	1183	4531
Apprch %	0	92.3	7.7		0	0	0		46.8	53.2	0		11.7	0	88.3		
Total %	0	25	2.1	27.1	0	0	0	0	21.9	24.9	0	46.7	3	0	23.1	26.1	

All Traffic Data

(916) 771-8700

Mendocino County

File Name : 11-7521-001 US 101-Sherwood

Site Code : 00000000

Start Date : 12/7/2011

Page No : 2

Start Time	US-101 Southbound				Westbound				US-101 Northbound				Sherwood Road Eastbound				Int. Total
	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	
Peak Hour Analysis From 07:00 to 08:45 - Peak 1 of 1																	
Peak Hour for Entire Intersection Begins at 07:30																	
07:30	0	70	3	73	0	0	0	0	7	65	0	72	13	0	89	102	247
07:45	0	113	3	116	0	0	0	0	15	138	0	153	34	0	104	138	407
08:00	0	116	3	119	0	0	0	0	35	103	0	138	12	0	105	117	374
08:15	0	65	2	67	0	0	0	0	37	64	0	101	9	0	93	102	270
Total Volume	0	364	11	375	0	0	0	0	94	370	0	464	68	0	391	459	1298
% App. Total	0	97.1	2.9		0	0	0		20.3	79.7	0		14.8	0	85.2		
PHF	.000	.784	.917	.788	.000	.000	.000	.000	.635	.670	.000	.758	.500	.000	.931	.832	.797

All Traffic Data

(916) 771-8700

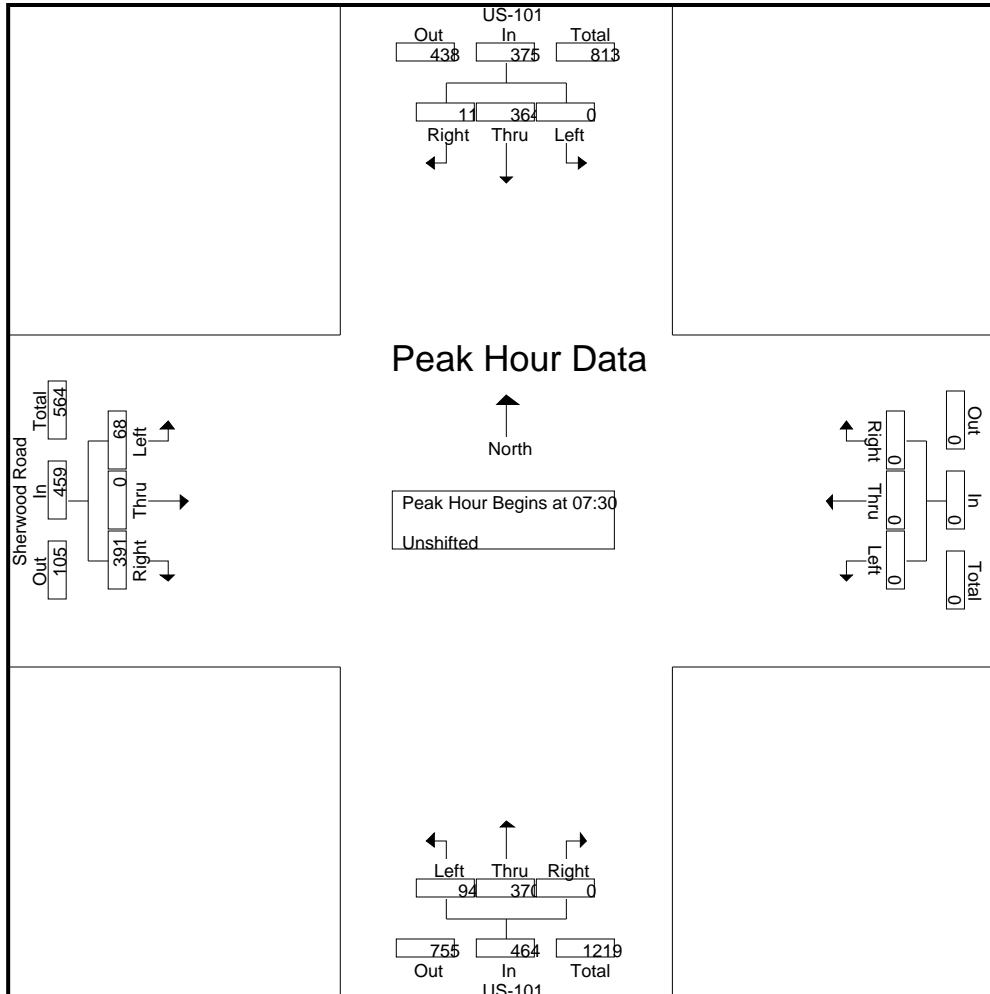
Mendocino County

File Name : 11-7521-001 US 101-Sherwood

Site Code : 00000000

Start Date : 12/7/2011

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All Traffic Data

(916) 771-8700

Mendocino County

File Name : 11-7521-001 US 101-Sherwood

Site Code : 00000000

Start Date : 12/7/2011

Page No : 4

Start Time	US-101 Southbound				Westbound				US-101 Northbound				Sherwood Road Eastbound				Int. Total
	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	
Peak Hour Analysis From 16:00 to 17:45 - Peak 1 of 1																	
Peak Hour for Entire Intersection Begins at 17:00																	
17:00	0	67	10	77	0	0	0	0	103	68	0	171	4	0	43	47	295
17:15	0	72	11	83	0	0	0	0	119	86	0	205	6	0	47	53	341
17:30	0	72	8	80	0	0	0	0	114	63	0	177	2	0	47	49	306
17:45	0	72	5	77	0	0	0	0	98	75	0	173	4	0	47	51	301
Total Volume	0	283	34	317	0	0	0	0	434	292	0	726	16	0	184	200	1243
% App. Total	0	89.3	10.7		0	0	0		59.8	40.2	0		8	0	92		
PHF	.000	.983	.773	.955	.000	.000	.000	.000	.912	.849	.000	.885	.667	.000	.979	.943	.911

All Traffic Data

(916) 771-8700

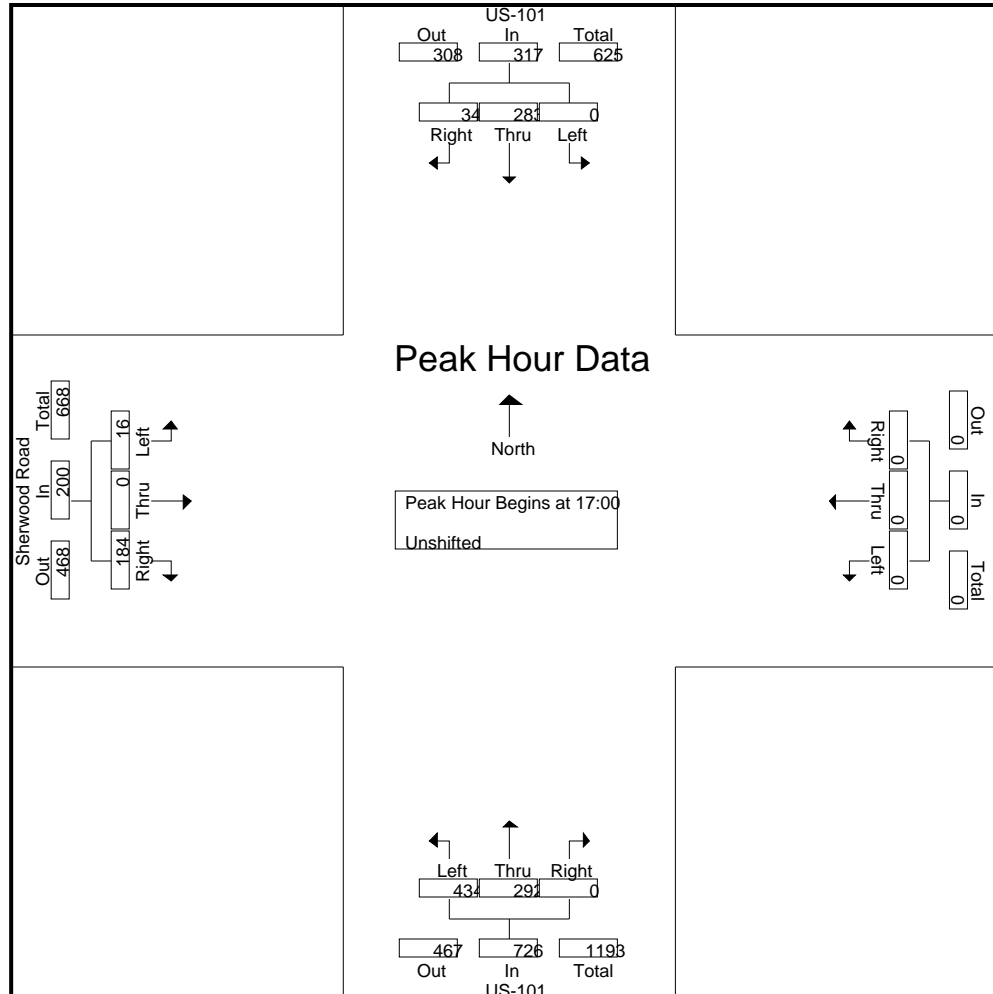
Mendocino County

File Name : 11-7521-001 US 101-Sherwood

Site Code : 00000000

Start Date : 12/7/2011

Page No : 5



All Traffic Data

(916) 771-8700

Mendocino County

File Name : 11-7521-002 Sherwood-Lupine

Site Code : 00000000

Start Date : 12/7/2011

Page No : 1

Groups Printed- Unshifted

Start Time	Sherwood Road Southbound				Westbound				Sherwood Road Northbound				Lupine Way Eastbound				Int. Total
	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	
07:00	0	35	0	35	0	0	0	0	0	2	0	2	0	0	0	0	37
07:15	0	38	1	39	0	0	0	0	0	4	0	4	1	0	1	2	45
07:30	0	33	0	33	0	0	0	0	0	4	0	4	0	0	2	2	39
07:45	0	53	0	53	0	0	0	0	1	7	0	8	0	0	1	1	62
Total	0	159	1	160	0	0	0	0	1	17	0	18	1	0	4	5	183
08:00	0	30	0	30	0	0	0	0	1	7	0	8	0	0	2	2	40
08:15	0	28	0	28	0	0	0	0	2	17	0	19	0	0	2	2	49
08:30	0	29	0	29	0	0	0	0	3	17	0	20	1	0	4	5	54
08:45	0	26	0	26	0	0	0	0	1	14	0	15	0	0	0	0	41
Total	0	113	0	113	0	0	0	0	7	55	0	62	1	0	8	9	184
16:00	0	15	0	15	0	0	0	0	2	29	0	31	0	0	0	0	46
16:15	0	18	0	18	0	0	0	0	1	37	0	38	0	0	1	1	57
16:30	0	17	0	17	0	0	0	0	1	29	0	30	0	0	0	0	47
16:45	0	17	0	17	0	0	0	0	1	33	0	34	0	0	0	0	51
Total	0	67	0	67	0	0	0	0	5	128	0	133	0	0	1	1	201
17:00	0	16	0	16	0	0	0	0	2	34	0	36	0	0	0	0	52
17:15	0	23	0	23	0	0	0	0	4	49	0	53	0	0	1	1	77
17:30	0	20	1	21	0	0	0	0	0	40	0	40	0	0	3	3	64
17:45	0	25	0	25	0	0	0	0	1	37	0	38	0	0	0	0	63
Total	0	84	1	85	0	0	0	0	7	160	0	167	0	0	4	4	256
Grand Total	0	423	2	425	0	0	0	0	20	360	0	380	2	0	17	19	824
Apprch %	0	99.5	0.5		0	0	0		5.3	94.7	0		10.5	0	89.5		
Total %	0	51.3	0.2	51.6	0	0	0	0	2.4	43.7	0	46.1	0.2	0	2.1	2.3	

All Traffic Data

(916) 771-8700

Mendocino County

File Name : 11-7521-002 Sherwood-Lupine

Site Code : 00000000

Start Date : 12/7/2011

Page No : 2

Start Time	Sherwood Road Southbound				Westbound				Sherwood Road Northbound				Lupine Way Eastbound				Int. Total
	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	
Peak Hour Analysis From 07:00 to 08:45 - Peak 1 of 1																	
Peak Hour for Entire Intersection Begins at 07:45																	
07:45	0	53	0	53	0	0	0	0	1	7	0	8	0	0	1	1	62
08:00	0	30	0	30	0	0	0	0	1	7	0	8	0	0	2	2	40
08:15	0	28	0	28	0	0	0	0	2	17	0	19	0	0	2	2	49
08:30	0	29	0	29	0	0	0	0	3	17	0	20	1	0	4	5	54
Total Volume	0	140	0	140	0	0	0	0	7	48	0	55	1	0	9	10	205
% App. Total	0	100	0		0	0	0		12.7	87.3	0		10	0	90		
PHF	.000	.660	.000	.660	.000	.000	.000	.000	.583	.706	.000	.688	.250	.000	.563	.500	.827

All Traffic Data

(916) 771-8700

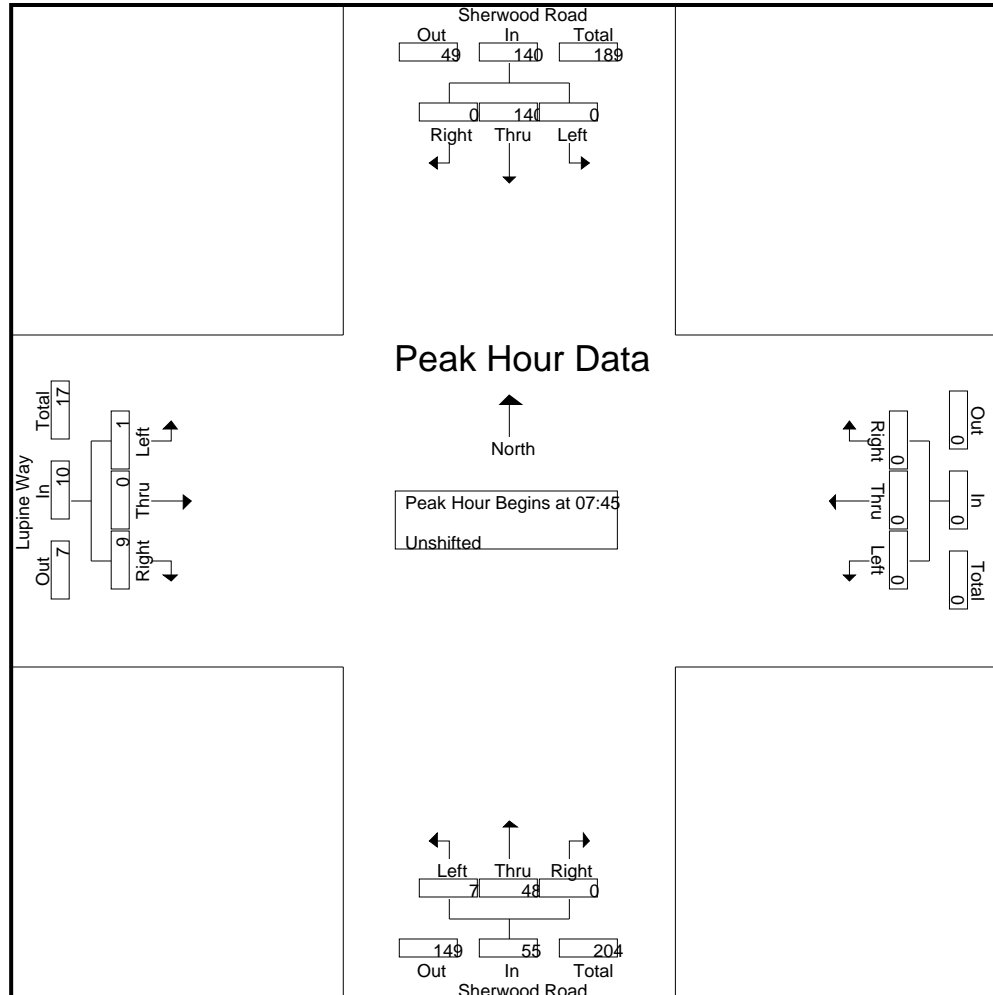
Mendocino County

File Name : 11-7521-002 Sherwood-Lupine

Site Code : 00000000

Start Date : 12/7/2011

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All Traffic Data

(916) 771-8700

Mendocino County

File Name : 11-7521-002 Sherwood-Lupine

Site Code : 00000000

Start Date : 12/7/2011

Page No : 4

Start Time	Sherwood Road Southbound				Westbound				Sherwood Road Northbound				Lupine Way Eastbound				Int. Total
	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	
Peak Hour Analysis From 16:00 to 17:45 - Peak 1 of 1																	
Peak Hour for Entire Intersection Begins at 17:00																	
17:00	0	16	0	16	0	0	0	0	2	34	0	36	0	0	0	0	52
17:15	0	23	0	23	0	0	0	0	4	49	0	53	0	0	1	1	77
17:30	0	20	1	21	0	0	0	0	0	40	0	40	0	0	3	3	64
17:45	0	25	0	25	0	0	0	0	1	37	0	38	0	0	0	0	63
Total Volume	0	84	1	85	0	0	0	0	7	160	0	167	0	0	4	4	256
% App. Total	0	98.8	1.2		0	0	0		4.2	95.8	0		0	0	100		
PHF	.000	.840	.250	.850	.000	.000	.000	.000	.438	.816	.000	.788	.000	.000	.333	.333	.831

All Traffic Data

(916) 771-8700

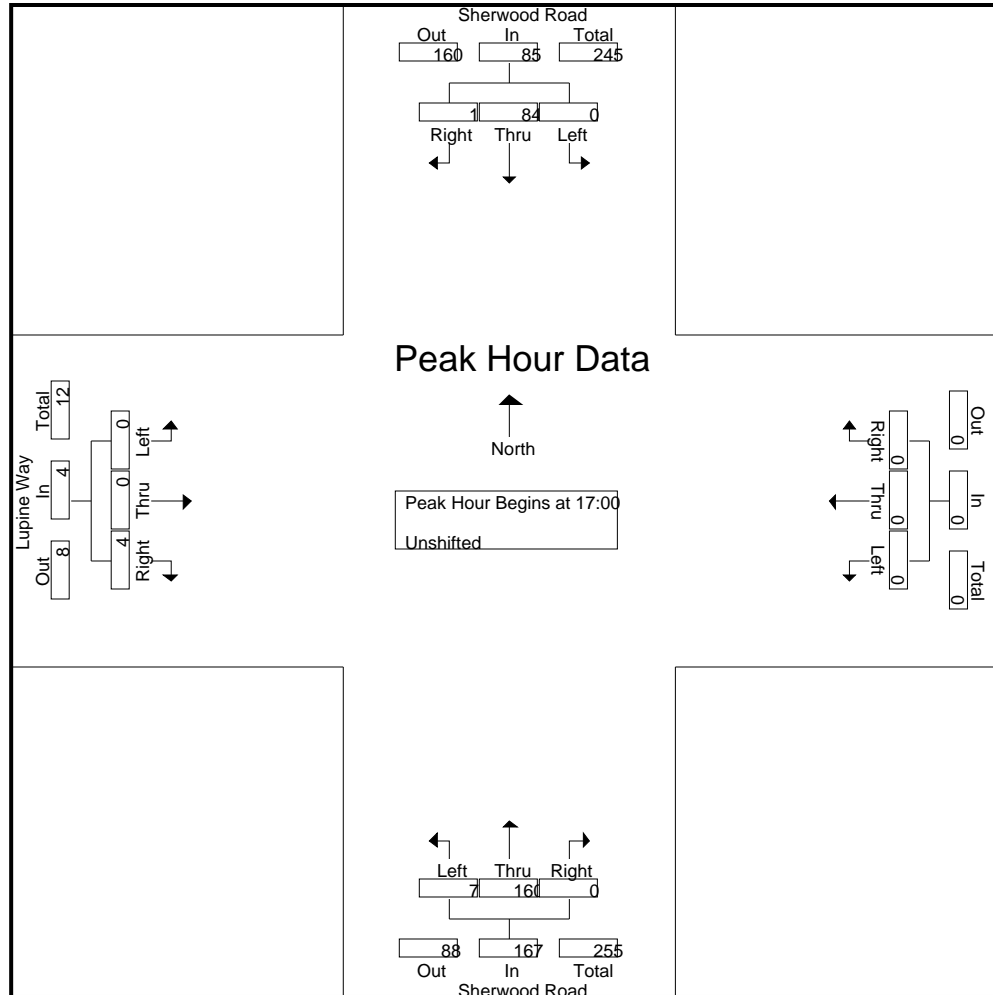
Mendocino County

File Name : 11-7521-002 Sherwood-Lupine

Site Code : 00000000

Start Date : 12/7/2011

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All Traffic Data

(916) 771-8700

Mendocino County

File Name : 11-7521-003 Sherwood-Poppy

Site Code : 00000000

Start Date : 12/7/2011

Page No : 1

Groups Printed- Unshifted

Start Time	Sherwood Road Southbound				Poppy Drive Westbound				Sherwood Road Northbound				Poppy Drive Eastbound				Int. Total
	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	
07:00	0	10	0	10	1	1	0	2	0	1	0	1	0	0	11	11	24
07:15	0	4	1	5	2	1	0	3	1	1	0	2	0	0	7	7	17
07:30	0	18	0	18	1	0	0	1	0	1	0	1	0	0	3	3	23
07:45	0	13	0	13	5	0	0	5	1	3	0	4	0	0	8	8	30
Total	0	45	1	46	9	2	0	11	2	6	0	8	0	0	29	29	94
08:00	0	6	0	6	0	1	3	4	0	9	0	9	1	0	10	11	30
08:15	1	11	0	12	1	0	0	1	0	10	2	12	2	0	6	8	33
08:30	1	7	1	9	1	0	0	1	3	4	0	7	0	0	5	5	22
08:45	0	12	1	13	0	0	0	0	2	6	0	8	0	1	6	7	28
Total	2	36	2	40	2	1	3	6	5	29	2	36	3	1	27	31	113
16:00	0	3	0	3	0	0	0	0	10	10	0	20	0	0	3	3	26
16:15	0	7	0	7	1	1	0	2	5	14	0	19	0	0	1	1	29
16:30	0	9	0	9	0	0	1	1	2	8	1	11	2	0	3	5	26
16:45	0	8	0	8	0	1	0	1	8	10	0	18	0	0	1	1	28
Total	0	27	0	27	1	2	1	4	25	42	1	68	2	0	8	10	109
17:00	0	9	1	10	2	0	0	2	5	9	1	15	0	1	1	2	29
17:15	1	15	0	16	0	1	0	1	11	19	1	31	0	2	2	4	52
17:30	0	7	0	7	1	0	0	1	9	11	1	21	1	0	5	6	35
17:45	1	7	0	8	0	2	0	2	6	15	0	21	0	0	4	4	35
Total	2	38	1	41	3	3	0	6	31	54	3	88	1	3	12	16	151
Grand Total	4	146	4	154	15	8	4	27	63	131	6	200	6	4	76	86	467
Apprch %	2.6	94.8	2.6		55.6	29.6	14.8		31.5	65.5	3		7	4.7	88.4		
Total %	0.9	31.3	0.9	33	3.2	1.7	0.9	5.8	13.5	28.1	1.3	42.8	1.3	0.9	16.3	18.4	

All Traffic Data

(916) 771-8700

Mendocino County

File Name : 11-7521-003 Sherwood-Poppy

Site Code : 00000000

Start Date : 12/7/2011

Page No : 2

Start Time	Sherwood Road Southbound				Poppy Drive Westbound				Sherwood Road Northbound				Poppy Drive Eastbound				Int. Total
	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	
Peak Hour Analysis From 07:00 to 08:45 - Peak 1 of 1																	
Peak Hour for Entire Intersection Begins at 07:30																	
07:30	0	18	0	18	1	0	0	1	0	1	0	1	0	0	3	3	23
07:45	0	13	0	13	5	0	0	5	1	3	0	4	0	0	8	8	30
08:00	0	6	0	6	0	1	3	4	0	9	0	9	1	0	10	11	30
08:15	1	11	0	12	1	0	0	1	0	10	2	12	2	0	6	8	33
Total Volume	1	48	0	49	7	1	3	11	1	23	2	26	3	0	27	30	116
% App. Total	2	98	0		63.6	9.1	27.3		3.8	88.5	7.7		10	0	90		
PHF	.250	.667	.000	.681	.350	.250	.250	.550	.250	.575	.250	.542	.375	.000	.675	.682	.879

All Traffic Data

(916) 771-8700

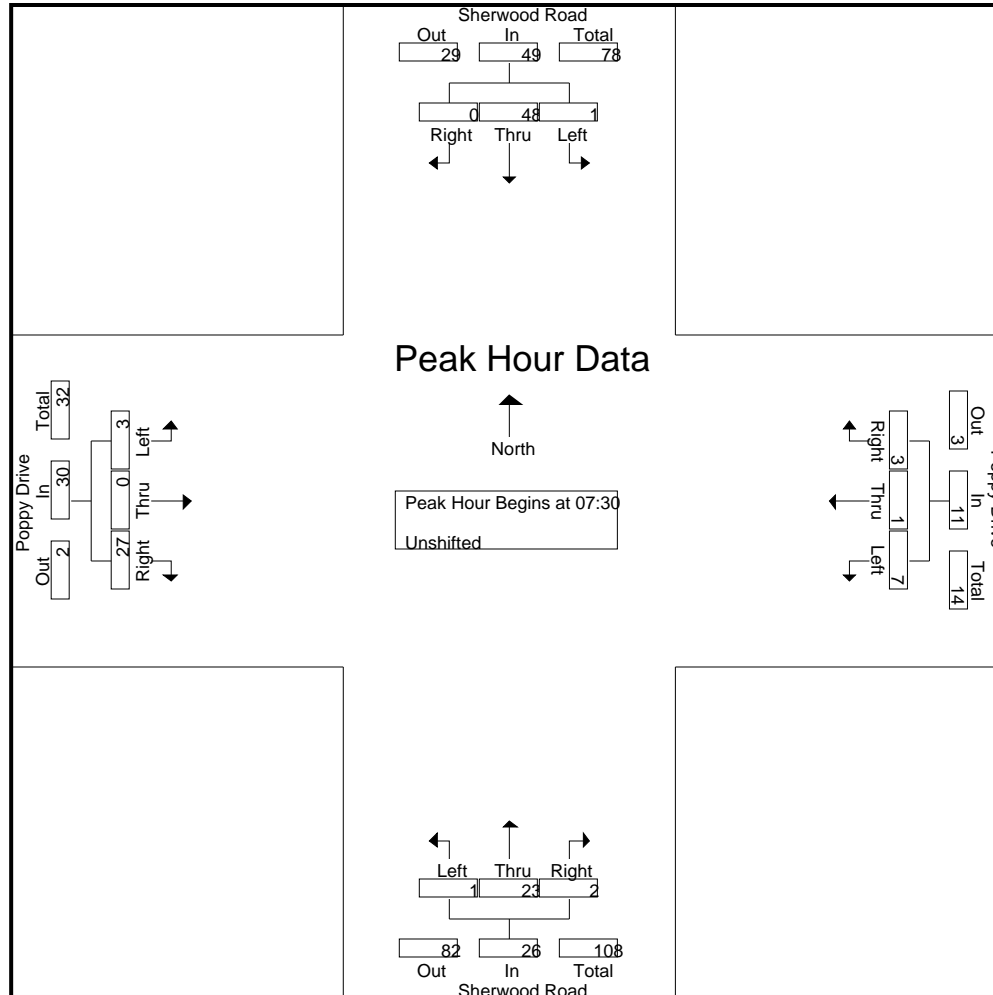
Mendocino County

File Name : 11-7521-003 Sherwood-Poppy

Site Code : 00000000

Start Date : 12/7/2011

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Mendocino County

File Name : 11-7521-003 Sherwood-Poppy

Site Code : 00000000

Start Date : 12/7/2011

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Start Time	Sherwood Road Southbound				Poppy Drive Westbound				Sherwood Road Northbound				Poppy Drive Eastbound				Int. Total
	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	
Peak Hour Analysis From 16:00 to 17:45 - Peak 1 of 1																	
Peak Hour for Entire Intersection Begins at 17:00																	
17:00	0	9	1	10	2	0	0	2	5	9	1	15	0	1	1	2	29
17:15	1	15	0	16	0	1	0	1	11	19	1	31	0	2	2	4	52
17:30	0	7	0	7	1	0	0	1	9	11	1	21	1	0	5	6	35
17:45	1	7	0	8	0	2	0	2	6	15	0	21	0	0	4	4	35
Total Volume	2	38	1	41	3	3	0	6	31	54	3	88	1	3	12	16	151
% App. Total	4.9	92.7	2.4		50	50	0		35.2	61.4	3.4		6.2	18.8	75		
PHF	.500	.633	.250	.641	.375	.375	.000	.750	.705	.711	.750	.710	.250	.375	.600	.667	.726

All Traffic Data

(916) 771-8700

Mendocino County

File Name : 11-7521-003 Sherwood-Poppy

Site Code : 00000000

Start Date : 12/7/2011

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