2017 RUCUS
Roadsoft User Conference of the United States

Using the Roadsoft Traffic Count Module

A Pragmatic Solution for Process Integration

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Presented By

- Jason Lucier, Ionia County Road Commission – since 2000
- IT Administrator
- Permit Agent
- Engineering

Data Collection and Entry

- Traffic study counter placement
  - 7 days (48 hrs minimum)
- Log placement of counter
- Recover counter / information
- Import information in Roadsoft

Traffic Count Log

Ionia County Traffic Counts
2017 SE Corner

Road Name	Township	Distance to nearest Intersection	Counter ID	Spacing	Side of Road Place	Direction Of Traffic-Hose A	Date Placed	Date Remove	ADT	Placed in Roadsoft
Grand River Ave	Berlin	1500’ E of Jordan LK	4	10’	S	EB	4/11	4/17	1002	yes

Select Study

Grand River Ave. 970' E of Jordan Lake Rd. 2017.rdf

Vehicle	Date/Time	Channel	Class	Speed (mph)	Gap (sec)	Axles	Spacing (in)	Accel (mph/sec)
1	04/11/2017 11:00:35:292 AM	WB	2	46.6		2	87	0.0
2	04/11/2017 11:01:17.165 AM	EB	3	88.7	41.8	2	149	0.0
3	04/11/4017 11:01:17.736 AM	WB	8	40.5	0.5	4	170, 332, 41	-1.1
4	04/11/2017 11:02:20.710 AM	EB	3	64.2	62.2	2	137	0.0
5	04/11/2017 11:03:21.830 AM	WB	2	46.6	61	2	99	0.0
6	04/11/2017 11:04:53.910 AM	EB	2	44.4	92	2	112	0.0
7	04/11/2017 11:05:09.291 AM	WB	2	46.6	15.2	2	87	11.4
8	04/11/2017 11:05:23.346 AM	EB	2	53.2	13.9	2	93	0.0
9	04/11/2017 11:05:43.598 AM	WB	5	62.1	20.2	2	193	12.3
10	04/11/2017 11:06:18.007 AM	EB	5	62.1	34.2	2	176	0.0

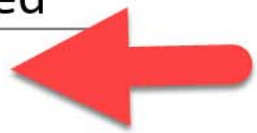
Grand Totals and ADT

Average Hourly Volumes

9:00 PM	8.0	13.2	21.2
10:00 PM	8.0	5.0	13.0
11:00 PM	5.2	2.3	7.5
Average Daily Traffic (ADT)	509.3	492.4	1001.7

Volume Totals

	EB	WB	Combined
	3158	3057	6215
	50.8%	49.2%	



Classification Grand Totals

Classification Grand Totals

Study Grand Totals

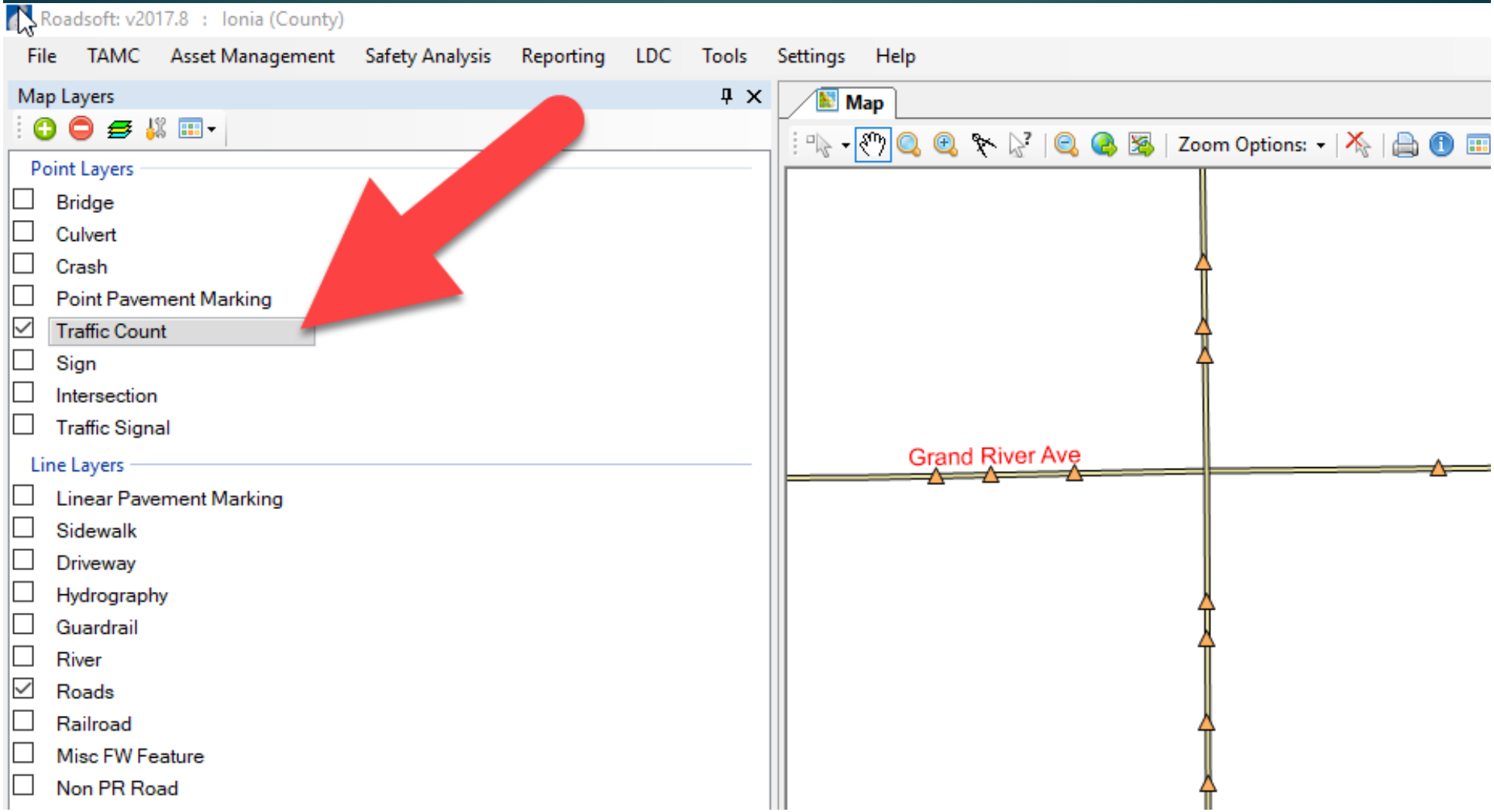
	Total	Motor Bikes	Cars & Trailers	2 Axle Long	Buses	2 Axle 6 Tire	3 Axle Single	4 Axis Single	< 5 Axle Double	5 Axle Double	> 6 Axle Double	> 6 Axle Multi	6 Axle Multi	> 6 Axle Multi
Combined	6215	60	2975	1940	54	993	37	2	77	65	3	0	1	5
		1.0%	**47.9%**	**31.2%**	**0.9%**	**16.0%**	**0.6%**	**0.0%**	**1.2%**	**1.1%**	**0.0%**	**0.0%**	**0.0%**	**0.1%**
EB	3156	38	232	1772	36	954	27	2	70	17	3	0	1	4
		1.2%	**7.3%**	**56.1%**	**1.2%**	**30.2%**	**0.9%**	**0.1%**	**2.2%**	**0.5%**	**0.1%**	**0.0%**	**0.0%**	**0.1%**
WB	3057	22	2743	165	16	39	10	0	7	51	0	0	0	1
		0.7%	**89.7%**	**5.5%**	**0.5%**	**1.3%**	**0.3%**	**0.0%**	**0.2%**	**1.7%**	**0.0%**	**0.0%**	**0.0%**	**0.0%**

Speed Study

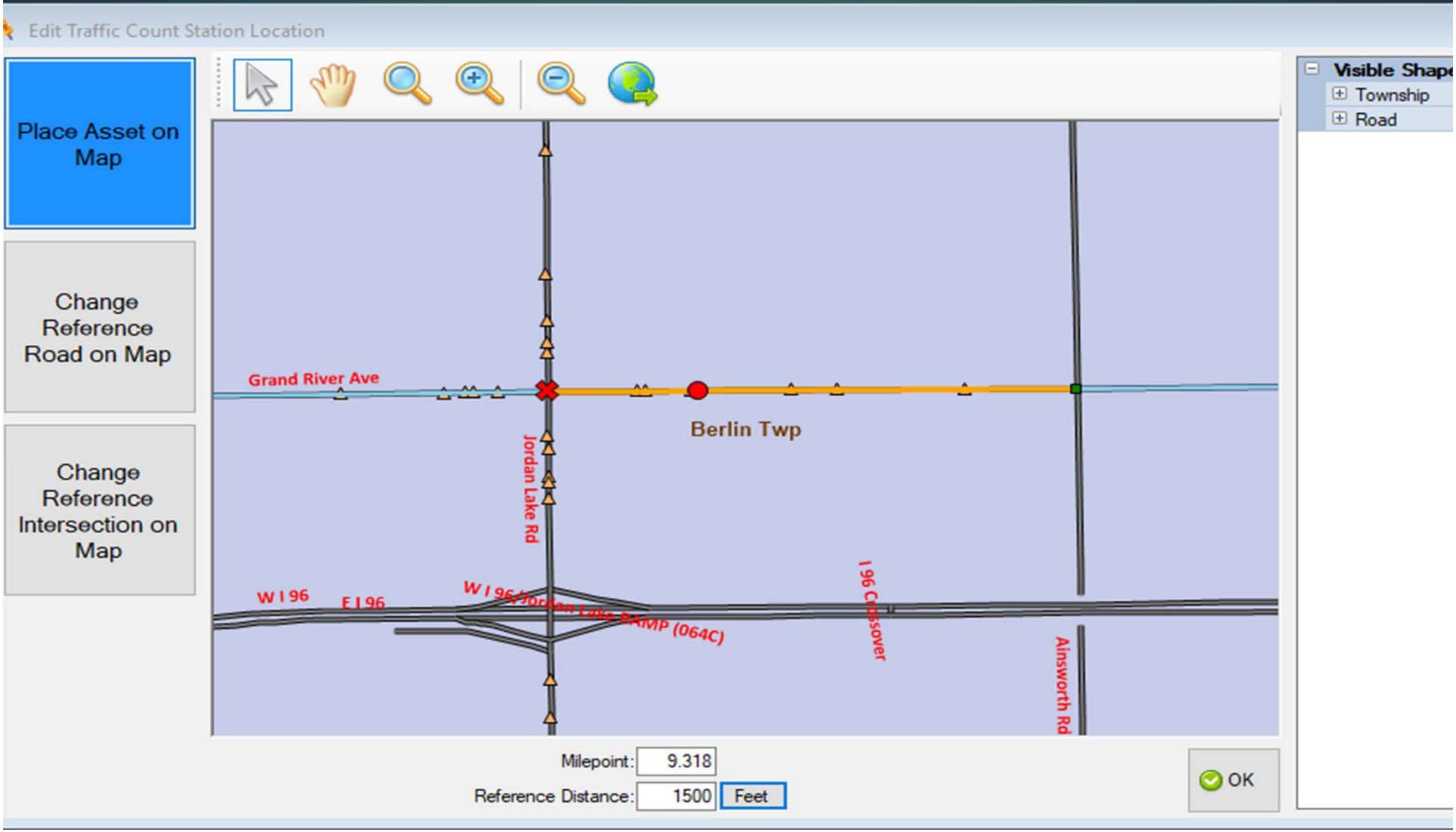
Speed Grand Total

Average (Mean)	56.3 mph	**Minimum**	10.4 mph	**Maximum**	88.7 mph	
Percentile Speeds	10%	15%	50%	85%	90%	
(mph)	42.3	44.4	51.8	71.7	74.5	
Speeds Exceeded	25 mph	35 mph	45 mph	55 mph	65 mph	75 mph
	99.6% (6188)	98.4% (6113)	82.0% (5096)	43.7% (2717)	28.9% (1797)	8.2% (507)

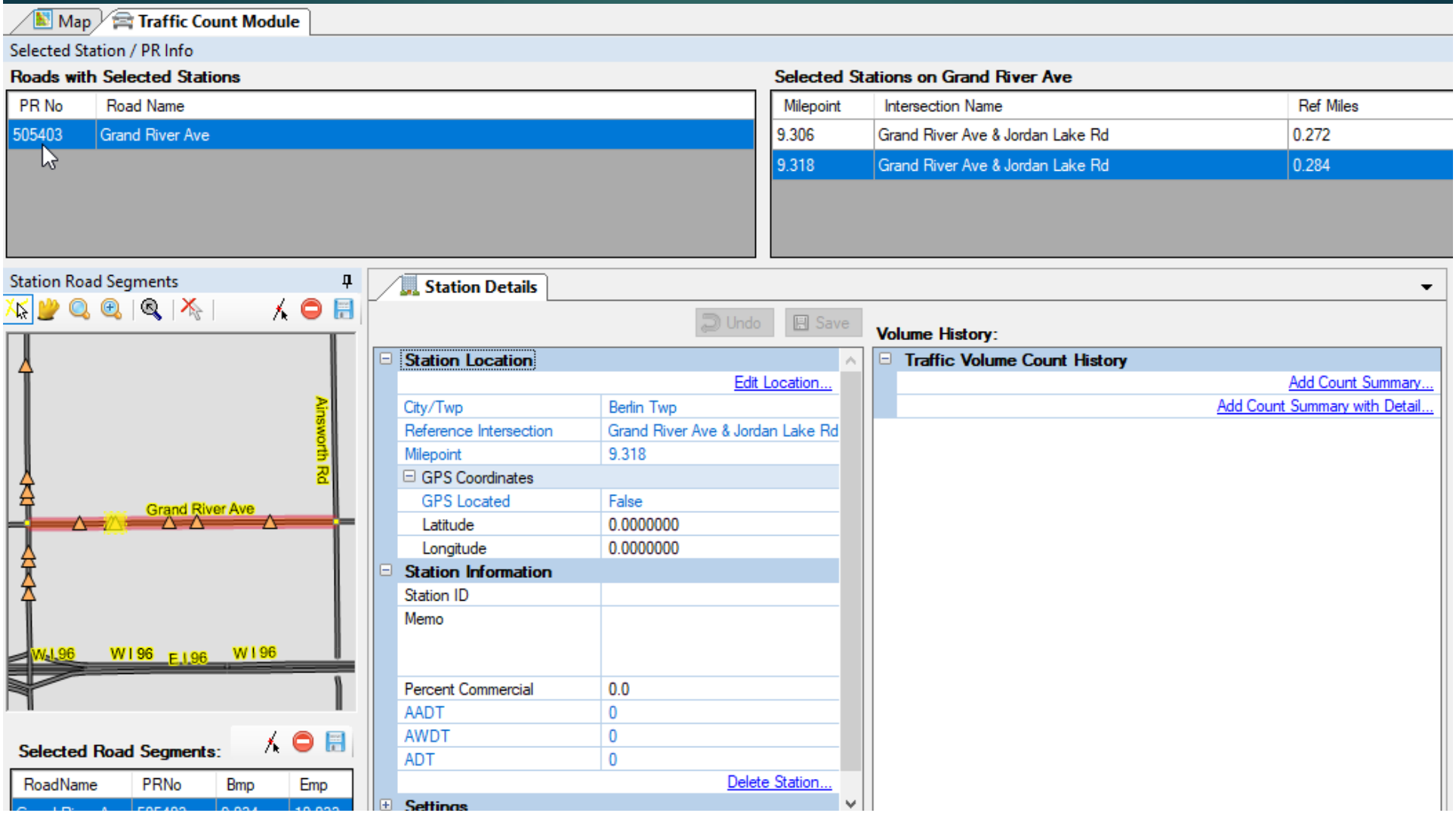
Roadsoft Traffic Count Layer



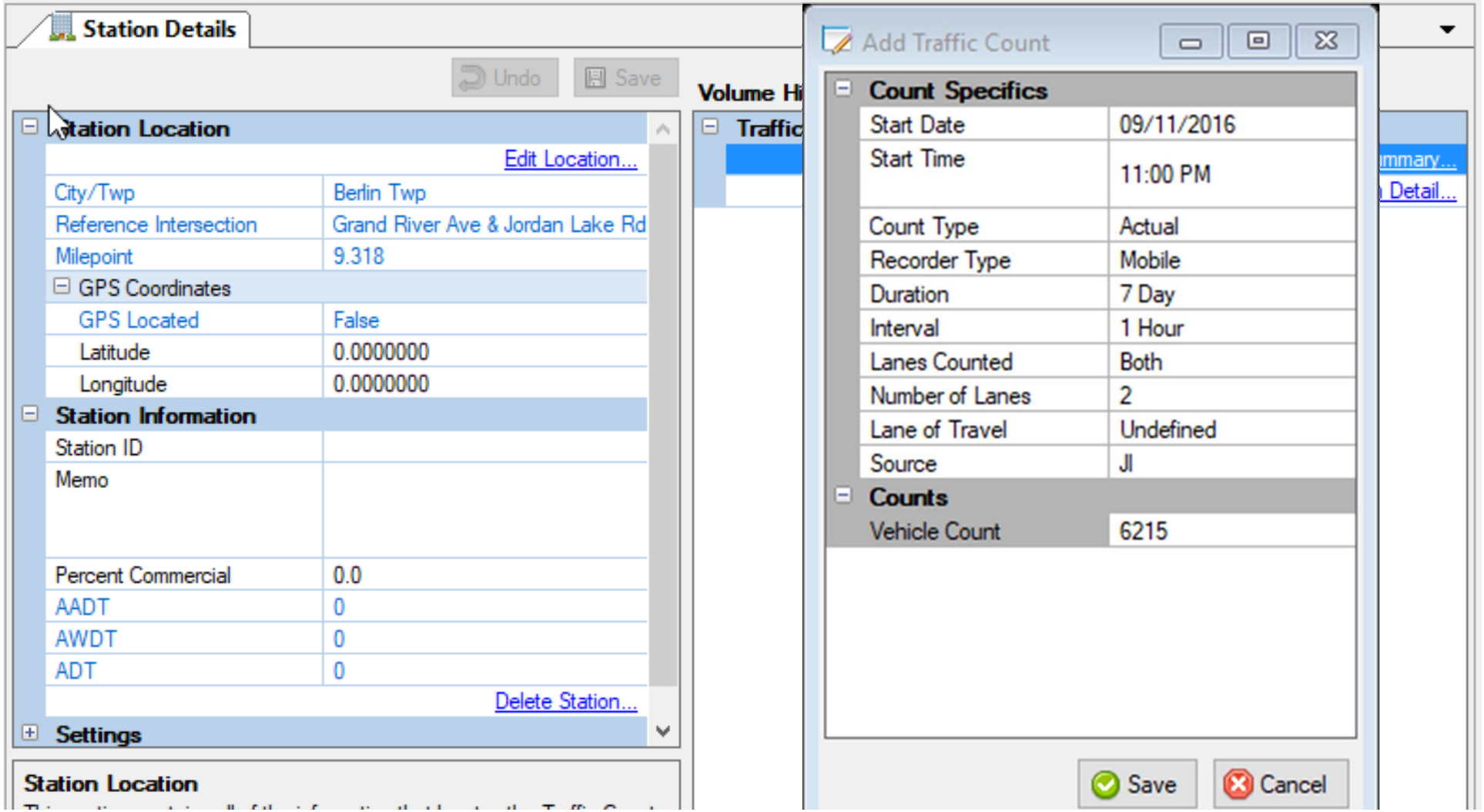
Add Feature – Traffic Count



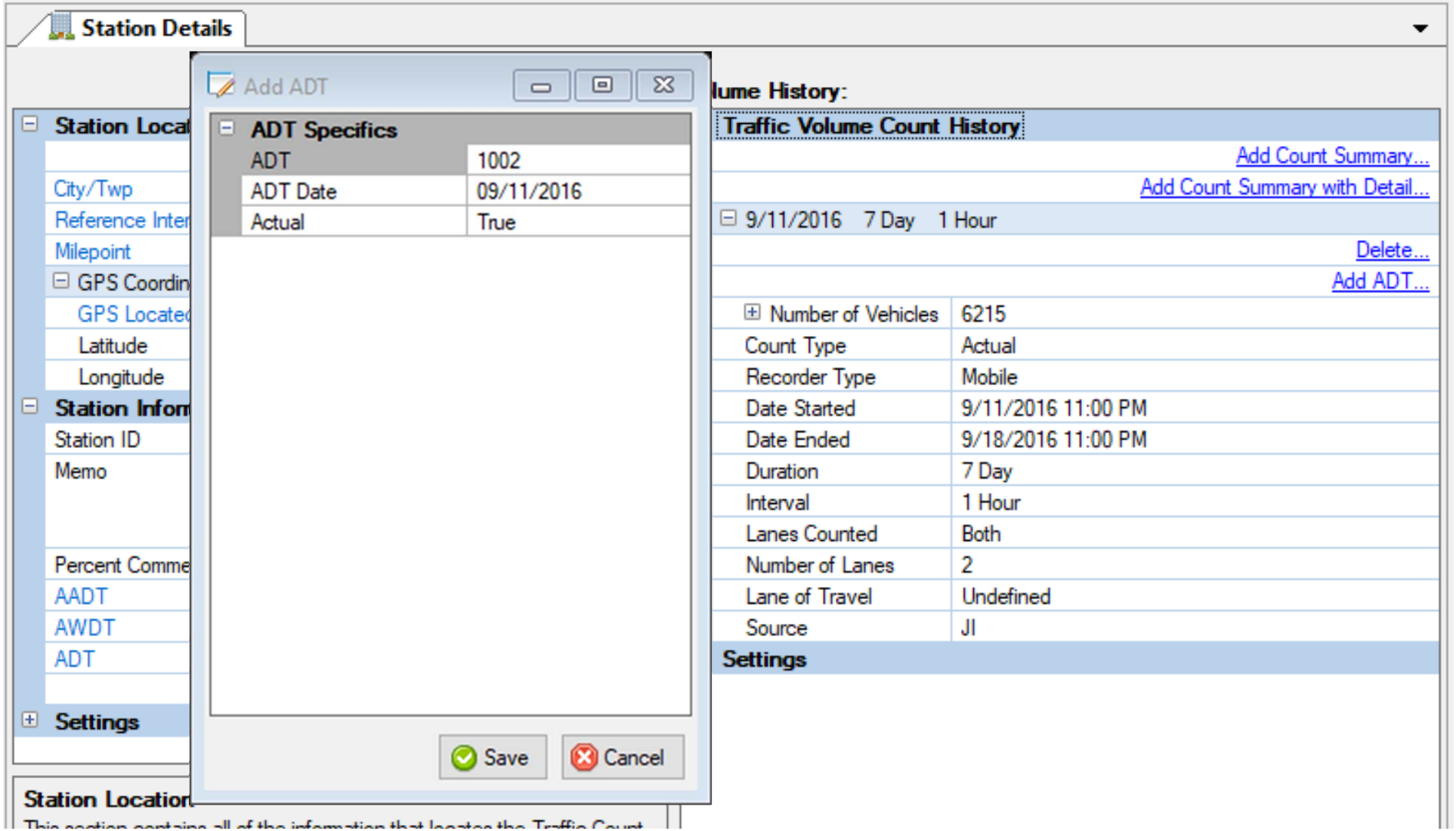
Traffic Station Details



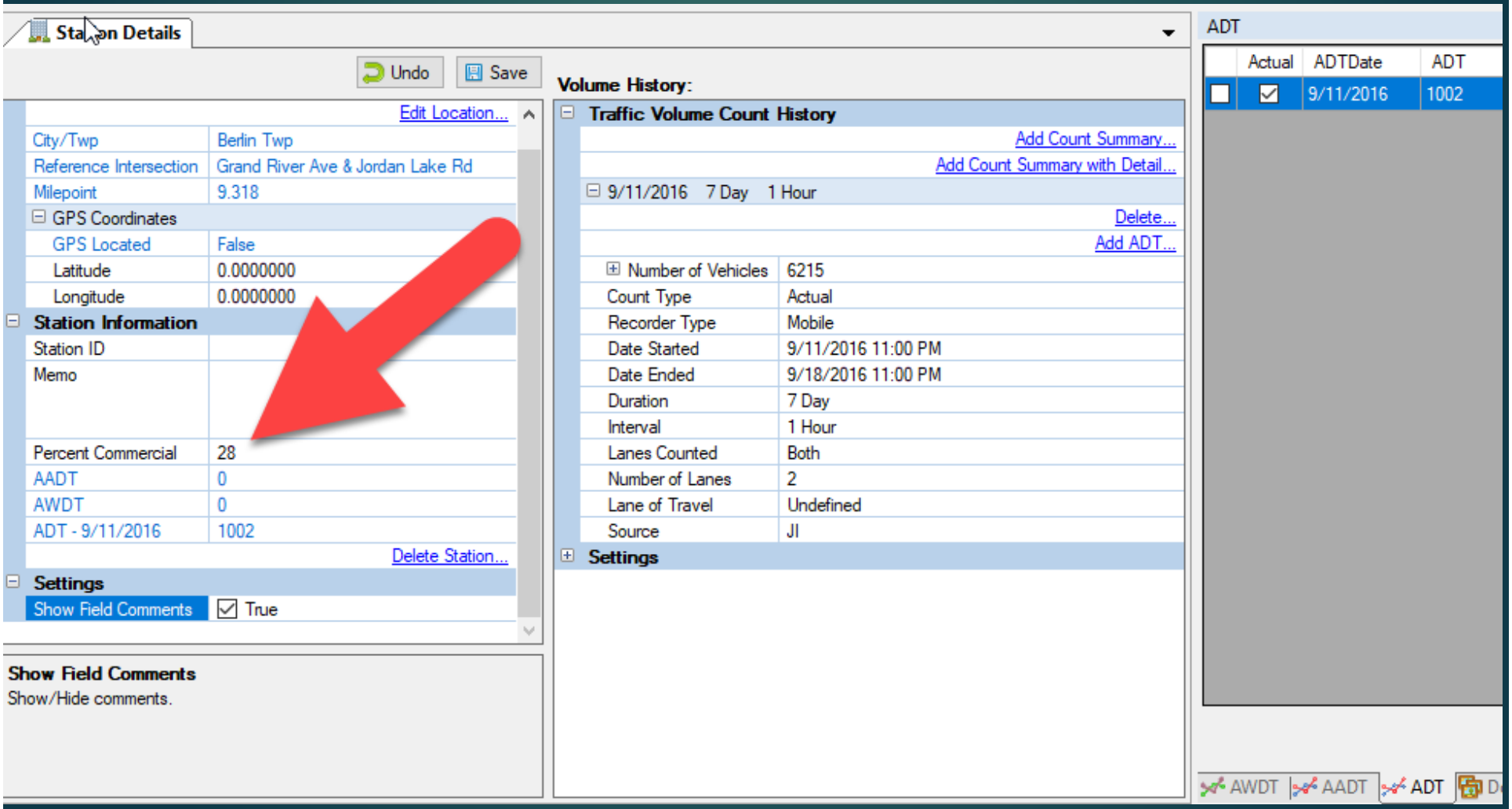
Add Count Summary



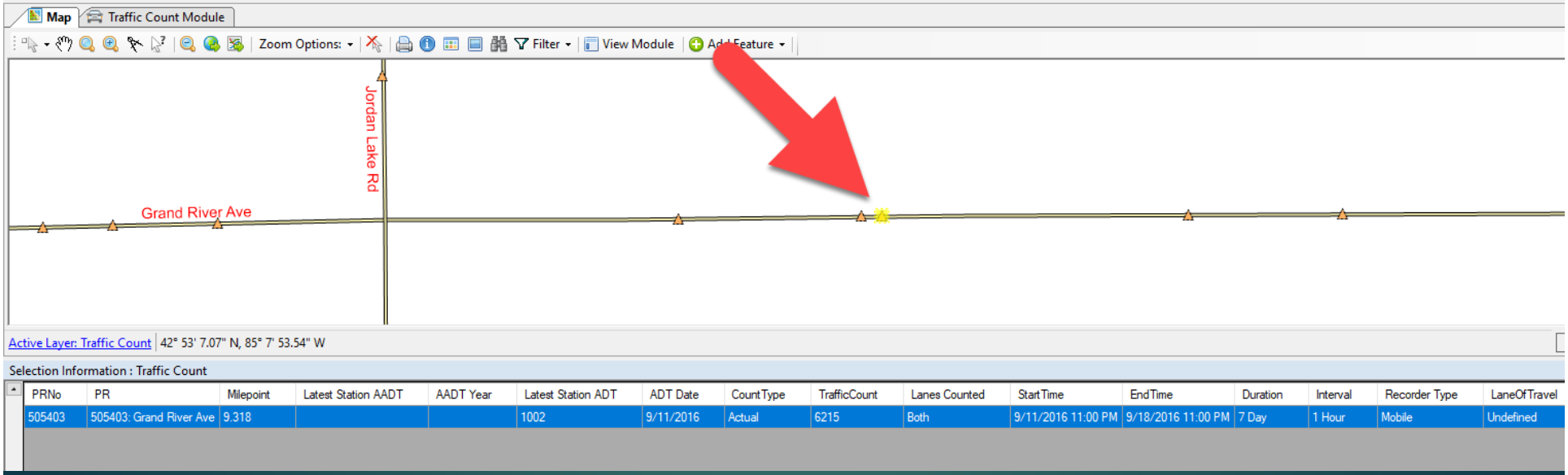
Add ADT


Station Details
Add ADT
ADT Specifics
ADT 1002
ADT Date 09/11/2016
Actual True
Save
Cancel
lume History:
Traffic Volume Count History
Add Count Summary...
Add Count Summary with Detail...
9/11/2016 7 Day 1 Hour
Delete...
Add ADT...
Number of Vehicles 6215
Count Type Actual
Recorder Type Mobile
Date Started 9/11/2016 11:00 PM
Date Ended 9/18/2016 11:00 PM
Duration 7 Day
Interval 1 Hour
Lanes Counted Both
Number of Lanes 2
Lane of Travel Undefined
Source JI
Settings
Station Locat
City/Twp
Reference Inter
Milepoint
GPS Coordin
GPS Located
Latitude
Longitude
Station Infor
Station ID
Memo
Percent Comme
AADT
AWDT
ADT
Settings
Station Location

Add Percent Commercial Traffic

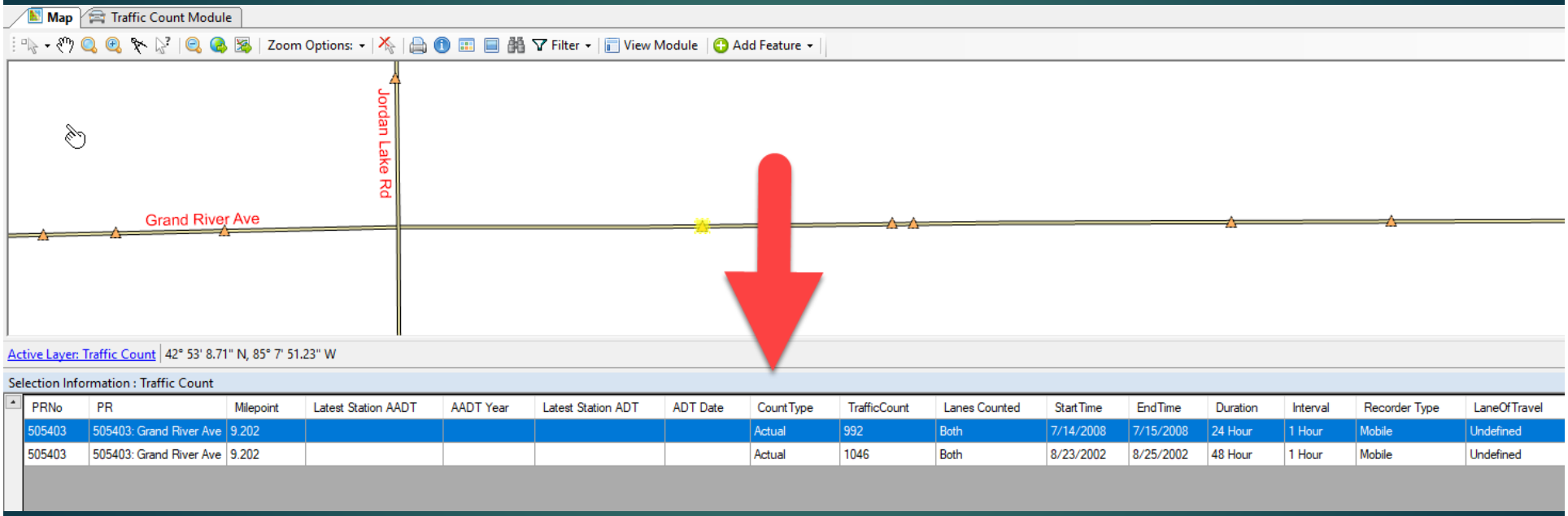


Station Selection



PRNo	PR	Milepoint	Latest Station AADT	AADT Year	Latest Station ADT	ADT Date	CountType	TrafficCount	Lanes Counted	StartTime	EndTime	Duration	Interval	Recorder Type	LaneOfTravel
505403	505403: Grand River Ave	9.318			1002	9/11/2016	Actual	6215	Both	9/11/2016 11:00 PM	9/18/2016 11:00 PM	7 Day	1 Hour	Mobile	Undefined

View Historical Data



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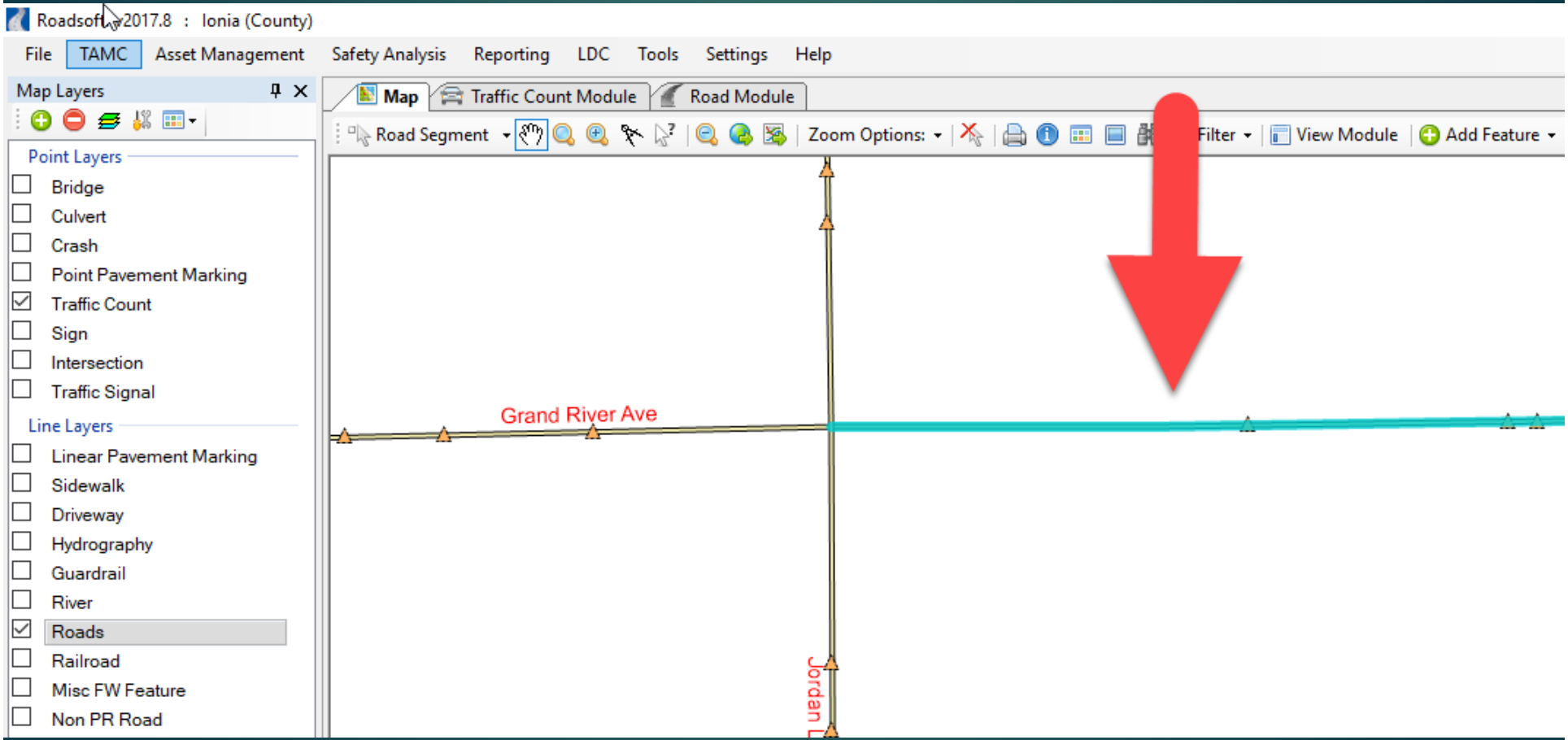
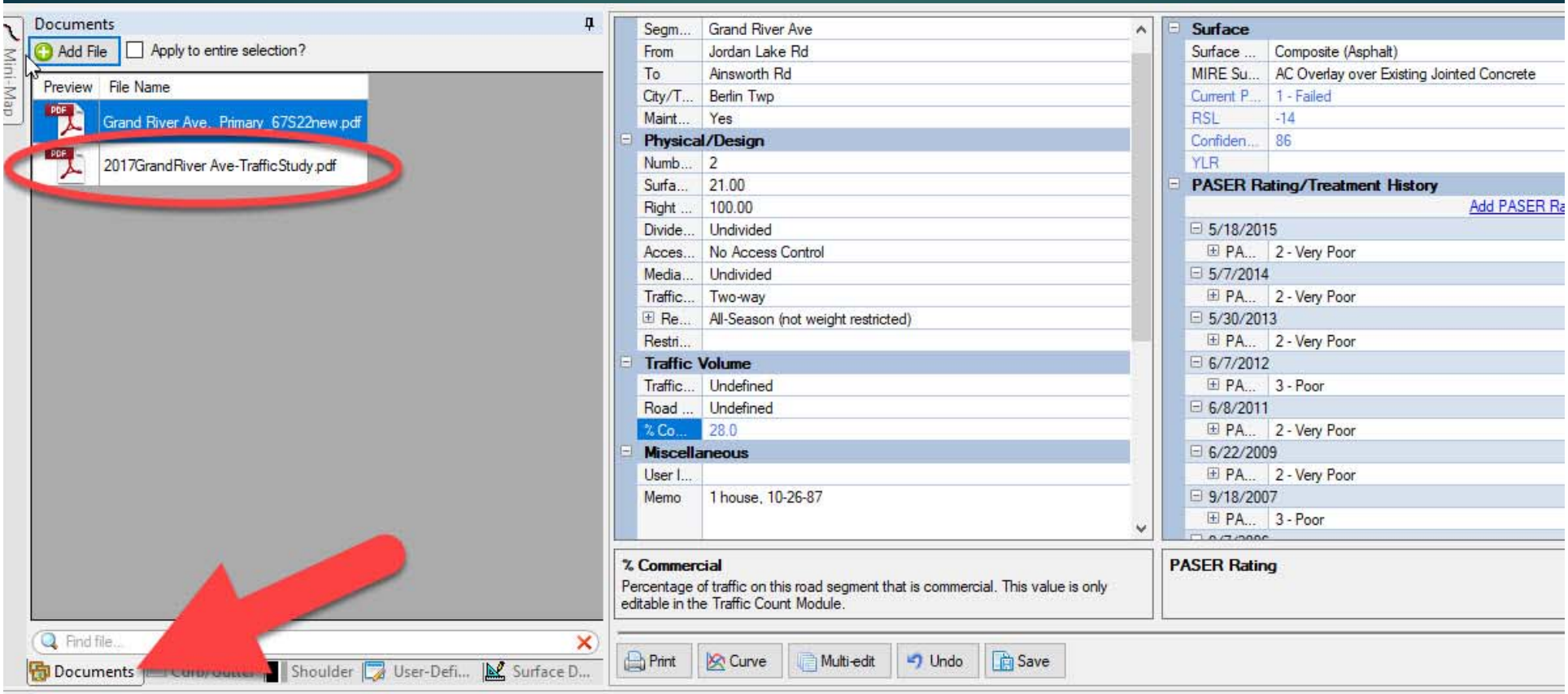
505403	505403: Grand River Ave	9.202					Actual	992	Both	7/14/2008	7/15/2008	24 Hour	1 Hour	Mobile	Undefined
505403	505403: Grand River Ave	9.202					Actual	1046	Both	8/23/2002	8/25/2002	48 Hour	1 Hour	Mobile	Undefined

Road Layer Selection



Access More Info - Road Module



Why use Roadsoft for Traffic Counts?

- Easier access – current & historical data
  - Eliminate paper files or other electronic files

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- Permitting
  - Adjacent roadway can dictate commercial driveway, road approach, and similar project's site specific build & design consistently

QUESTIONS?