



ADDENDUM TO APPENDIX B

For the IHNC Lock Replacement Traffic Study

Dated July 2024

This addendum to Appendix B of the *IHNC Lock Replacement Traffic Study* by Urban Systems dated July 12th 2024 was prepared to document the growth rate determination methodology from the traffic study using TransCAD and historical Annualized Average Daily Traffic (AADT) data.

RPC's TransCAD Data

TransCAD is a Geographic Information System (GIS) designed specifically for use by transportation professionals to analyze transportation data. TransCAD combines GIS and transportation modeling capabilities in a single integrated platform. The New Orleans Regional Planning Commission (RPC) maintains the regional demand TransCAD model for long-range strategic planning, and other transportation/land use related tasks. The TransCAD model is widely accepted by various governing agencies in the New Orleans Metropolitan area to conduct demand forecasting.

RPC provided 2023 and 2060 TransCAD model output in the form of maps with daily vehicular data displayed over corresponding roadway sections for use in the traffic study. The daily vehicular data from the Florida, Claiborne, and St. Claude bridges were summed for the years 2023 and 2060 and compared to each other. **Table 1** presents the comparison.

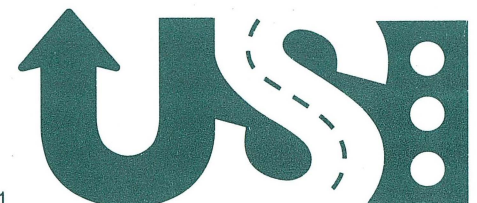
Table 1
TransCAD Output – Daily Vehicular Trips

Year	Florida Bridge (vpd)	Claiborne Bridge (Vpd)	St. Claude Bridge (vpd)	Sum of Bridges (vpd)
2023	15,349	58,992	16,573	90,914
2060	10,561	55,112	25,004	90,677

vpd = Vehicles Per Day

The “Sum of Bridges” column in **Table 1** indicates a reduction in overall trips in 2060 compared to 2023. The TransCAD output maps are attached.

URBAN SYSTEMS inc.



LADOTD's AADT Data

The Louisiana Department of Transportation and Development's (LADOTD) Traffic Monitoring Unit provides a source of recent and historic traffic monitoring data. The data is collected through field personnel, collaboration with local entities and consultant contract services to determine and document AADTs on the public road system in Louisiana. Historical AADTs are often used to supplement TransCAD data to forecast future demand.

For this review, AADTs from LADOTD's database for the St. Claude and Claiborne bridges were documented and reviewed. AADTs were not available for the Florida bridge at the time of this letter. The AADT values represent data directly collected in the field or estimated based on a state and/or parish wide growth rate. AADTs for the years 1985, 2001, and 2022 were chosen as these AADTs were collected and not estimated. **Table 2** presents the LADOTD yearly AADT values for each bridge and the sums of the bridges' AADTs for that year.

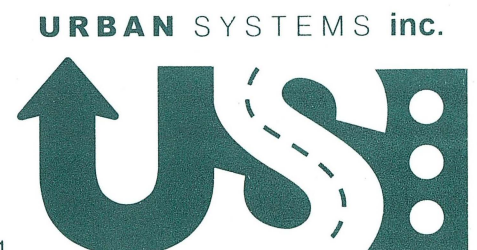
Table 2
LADOTD AADT Database Output – AADTs and Years

Bridge	1985	2001	2022
Claiborne	46,925 vpd	43,964 vpd	38,326 vpd
St. Claude	25,000 vpd	26,078 vpd	19,314 vpd
Sum of both Bridges	71,925 vpd	70,042 vpd	57,640 vpd

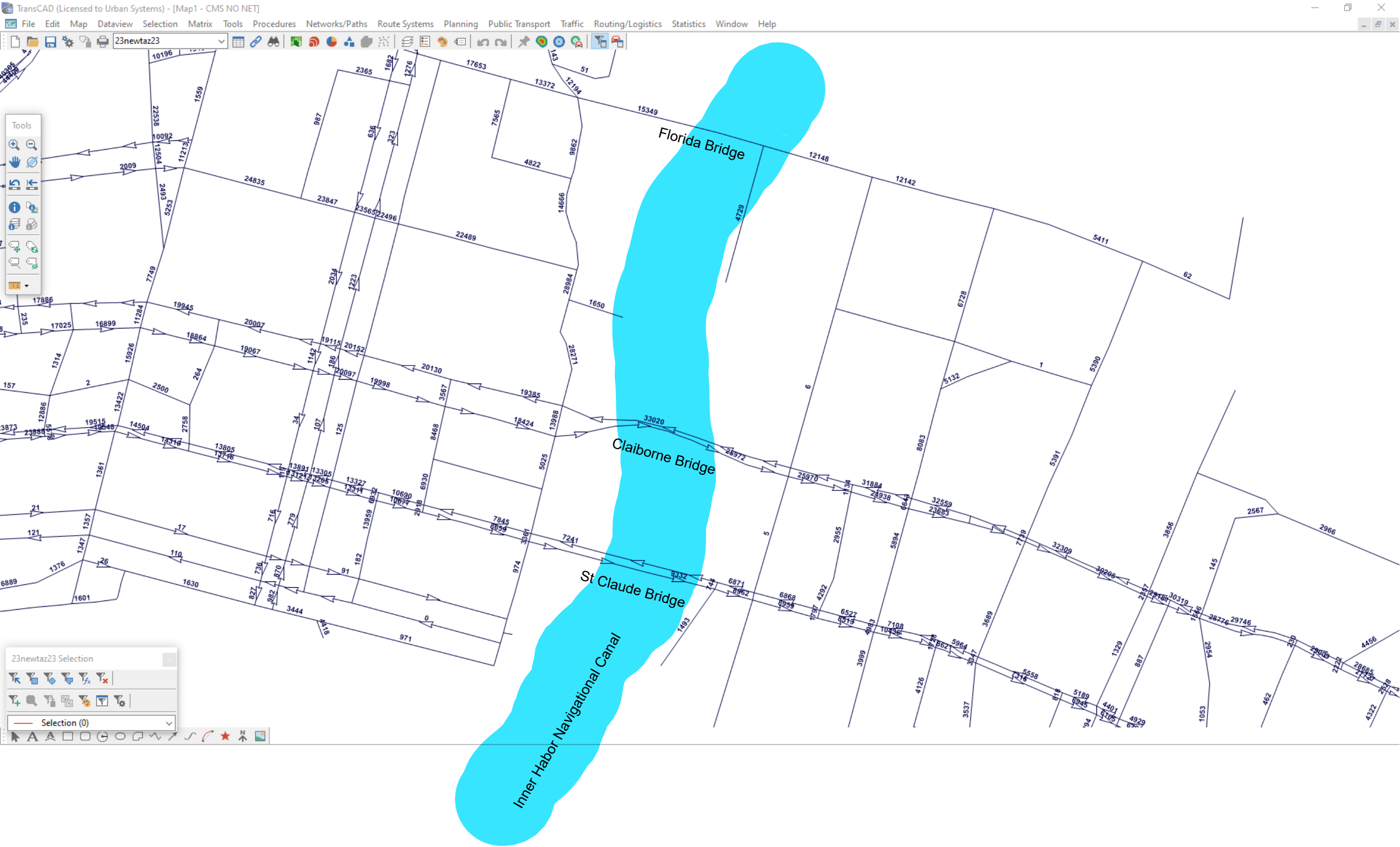
vpd = Vehicles Per Day

The "Sum of both Bridges" row in **Table 2** indicates a reduction in AADT value from 1985 to 2022. The LADOTD AADT database information is attached.

Based on the RPC TransCAD and LADOTD AADT data reviewed in this addendum, calculating a yearly growth rate would result in negative growth. These findings agree with the decision to use no growth rate in the *IHNC Lock Replacement Traffic Study* to remain conservative.

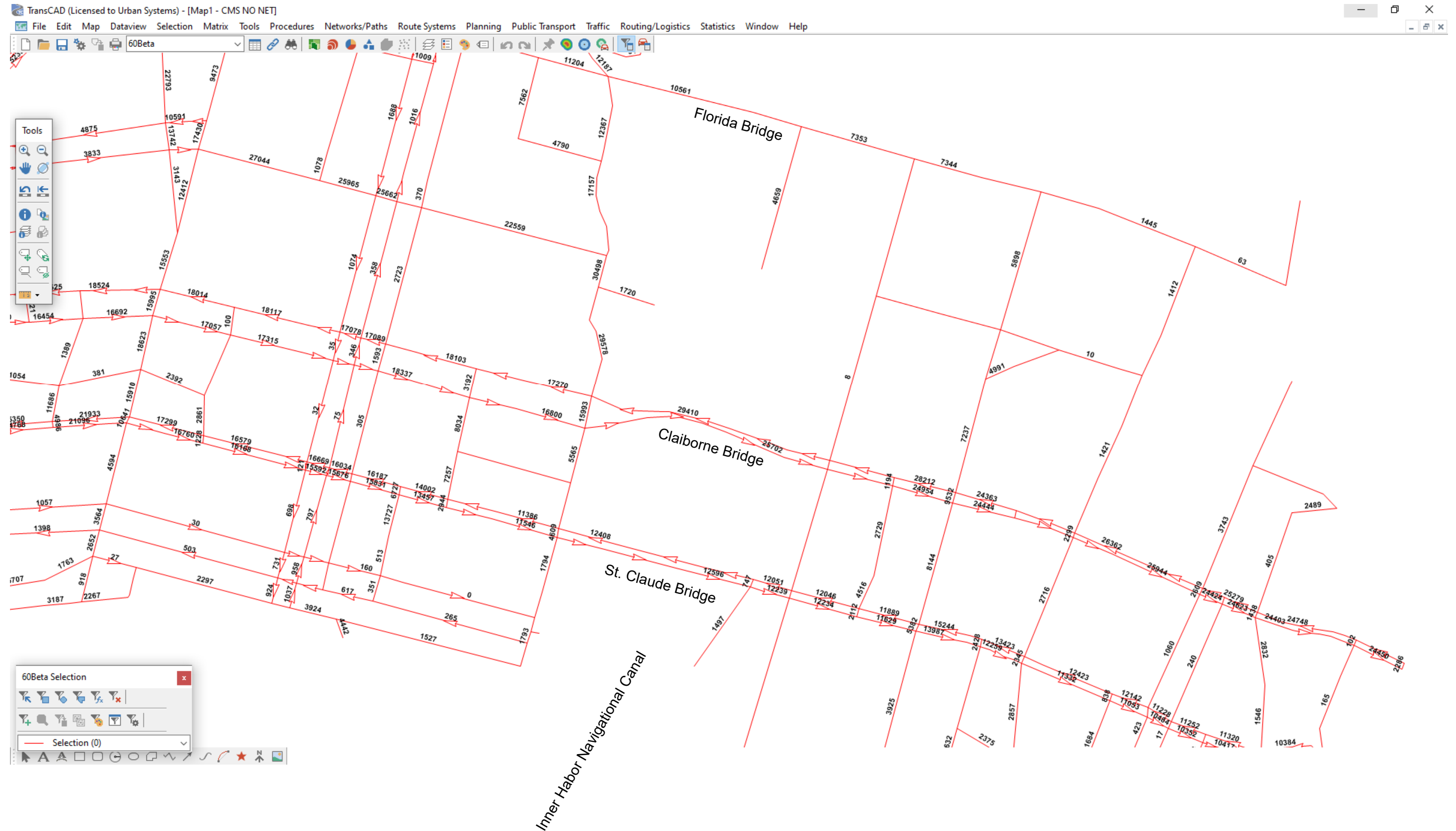


2023



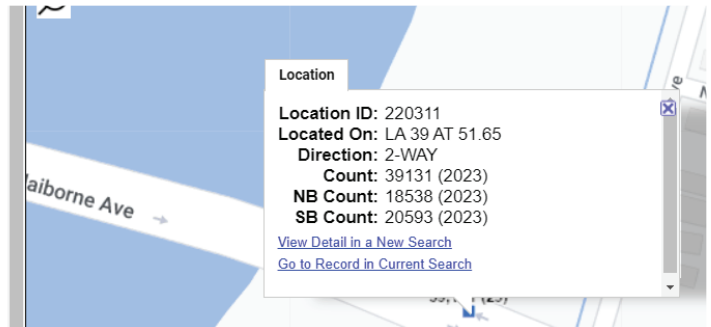
Transcad Output - Daily Vehicles

2060

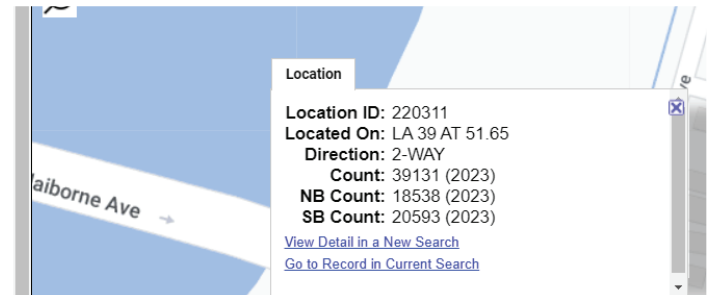


Claiborne LADOTD Count Station #220311 Data

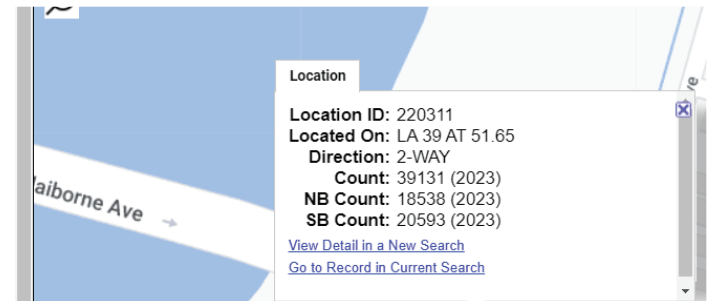
STATION DATA								
Directions: 2-WAY NB SB ?								
AADT ?								
	Year	AADT	DHV-30	K %	D %	PA	BC	Src
	2023	39,131 ³		7	56	35,101 (90%)	4,030 (10%)	Grown from 2022
	2022	38,326	2,750	7	56	33,765 (88%)	4,561 (12%)	
	2021	33,562 ³				28,225 (84%)	5,337 (16%)	Grown from 2020
	2020	30,990 ³				25,535 (82%)	5,455 (18%)	Grown from 2019
	2019	33,394 ³				28,753 (86%)	4,641 (14%)	Grown from 2018
1-5 of 24								



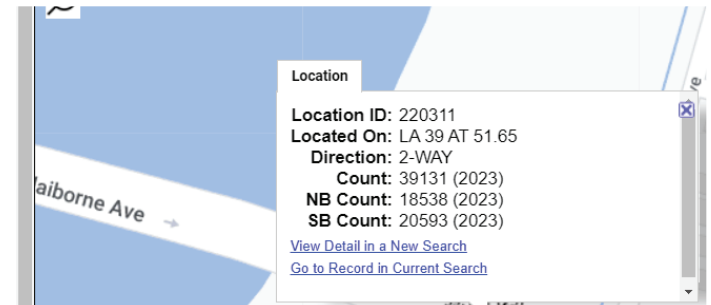
STATION DATA								
Directions: 2-WAY NB SB ?								
AADT ?								
	Year	AADT	DHV-30	K %	D %	PA	BC	Src
	2018	32,017 ³						Grown from 2017
	2017	32,113 ³						Grown from 2016
	2016	32,668						Legacy
	2013	31,278						Legacy
	2008	26,255						Legacy
6-10 of 24								



STATION DATA								
Directions: 2-WAY NB SB ?								
AADT ?								
	Year	AADT	DHV-30	K %	D %	PA	BC	Src
	2004	53,333						Legacy
	2001	43,964						Legacy
	1998	38,097						Legacy
	1997	46,340						Legacy
	1994	39,294						Legacy
11-15 of 24								
Travel Demand Model								
	Model	Model	AM PHV	AM PPV	MD PHV	MD PPV	PM PHV	PM PPV
			NT PHV	NT PPV				



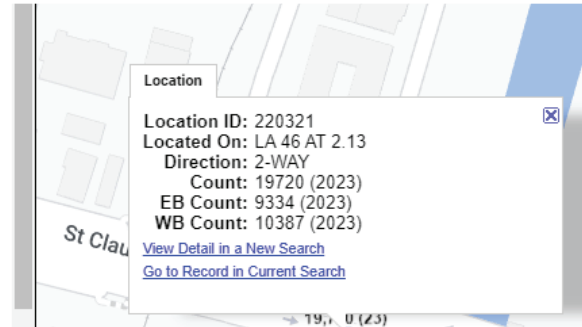
STATION DATA								
Directions: 2-WAY NB SB ?								
AADT ?								
	Year	AADT	DHV-30	K %	D %	PA	BC	Src
	1992	37,174						Legacy
	1989	37,883						Legacy
	1986	40,568						Legacy
	1985	46,925						Legacy
	1984	53,013						Legacy
16-20 of 24								
Travel Demand Model								
	Model	Model	AM PHV	AM PPV	MD PHV	MD PPV	PM PHV	PM PPV
			NT PHV	NT PPV				



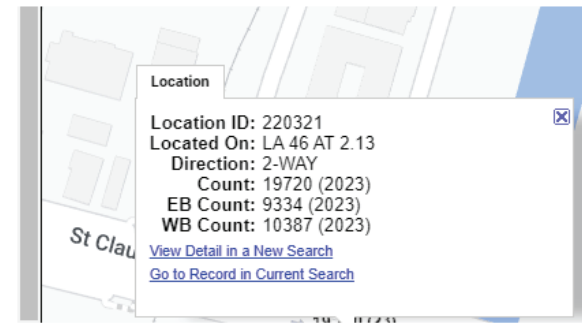
	Year AADT Collected/Estimated
	AADT (veh/day)

St Claude LADOTD Count Station #220321 Data

STATION DATA								
Directions: 2-WAY EB WB ?								
AADT ?								
	Year	AADT	DHV-30	K %	D %	PA	BC	Src
	2023	19,720 ³		9	62	17,690 (90%)	2,030 (10%)	Grown from 2022
	2022	19,314	1,662	9	62	17,016 (88%)	2,298 (12%)	
	2021	23,049 ³		8	60	19,385 (84%)	3,664 (16%)	Grown from 2020
	2020	21,283 ³		8	60	17,537 (82%)	3,746 (18%)	Grown from 2019
	2019	22,934	1,923	8	60	19,746 (86%)	3,188 (14%)	
1-5 of 24								



STATION DATA								
Directions: 2-WAY EB WB ?								
AADT ?								
	Year	AADT	DHV-30	K %	D %	PA	BC	Src
	2018	20,366 ³						Grown from 2017
	2017	20,427 ³						Grown from 2016
	2016	20,780						Legacy
	2013	18,483						Legacy
	2010	36,644						Legacy
6-10 of 24								



STATION DATA

Directions: 2-WAY EB WB ?

AADT ?

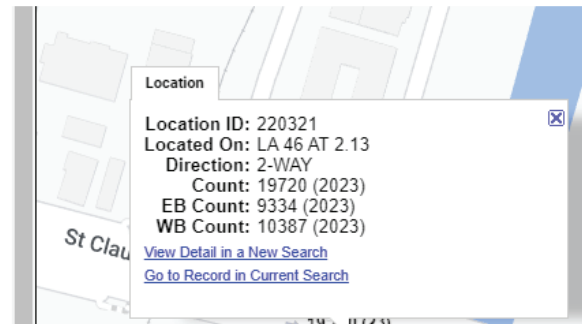
	Year	AADT	DHV-30	K %	D %	PA	BC	Src
	2008	12,327						Legacy
	2004	25,225						Legacy
	2001	26,078						Legacy
	1998	18,949						Legacy
	1997	27,534						Legacy

<<<<>>>>

11-15 of 24

Travel Demand Model

	Model	Model	AM PHV	AM PPV	MD PHV	MD PPV	PM PHV	PM PPV	NT PHV	NT PPV
--	-------	-------	--------	--------	--------	--------	--------	--------	--------	--------



STATION DATA

Directions: 2-WAY EB WB ?

AADT ?

	Year	AADT	DHV-30	K %	D %	PA	BC	Src
	1994	23,473						Legacy
	1992	24,411						Legacy
	1989	36,185						Legacy
	1986	23,013						Legacy
	1985	25,000						Legacy

<<

<

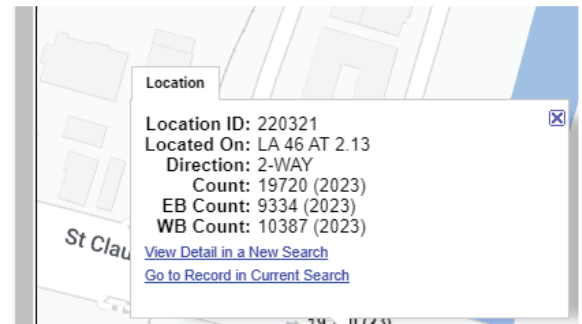
>

>>

16-20 of 24

Travel Demand Model

	Model	Model	AM PHV	AM PPV	MD PHV	MD PPV	PM PHV	PM PPV	NT PHV	NT PPV
--	-------	-------	--------	--------	--------	--------	--------	--------	--------	--------



	Year AADT Collected/Estimated
	AADT (veh/day)