APPENDIX C.   PROJECT DEMOGRAPHIC STUDY AREA DATA ANALYSIS
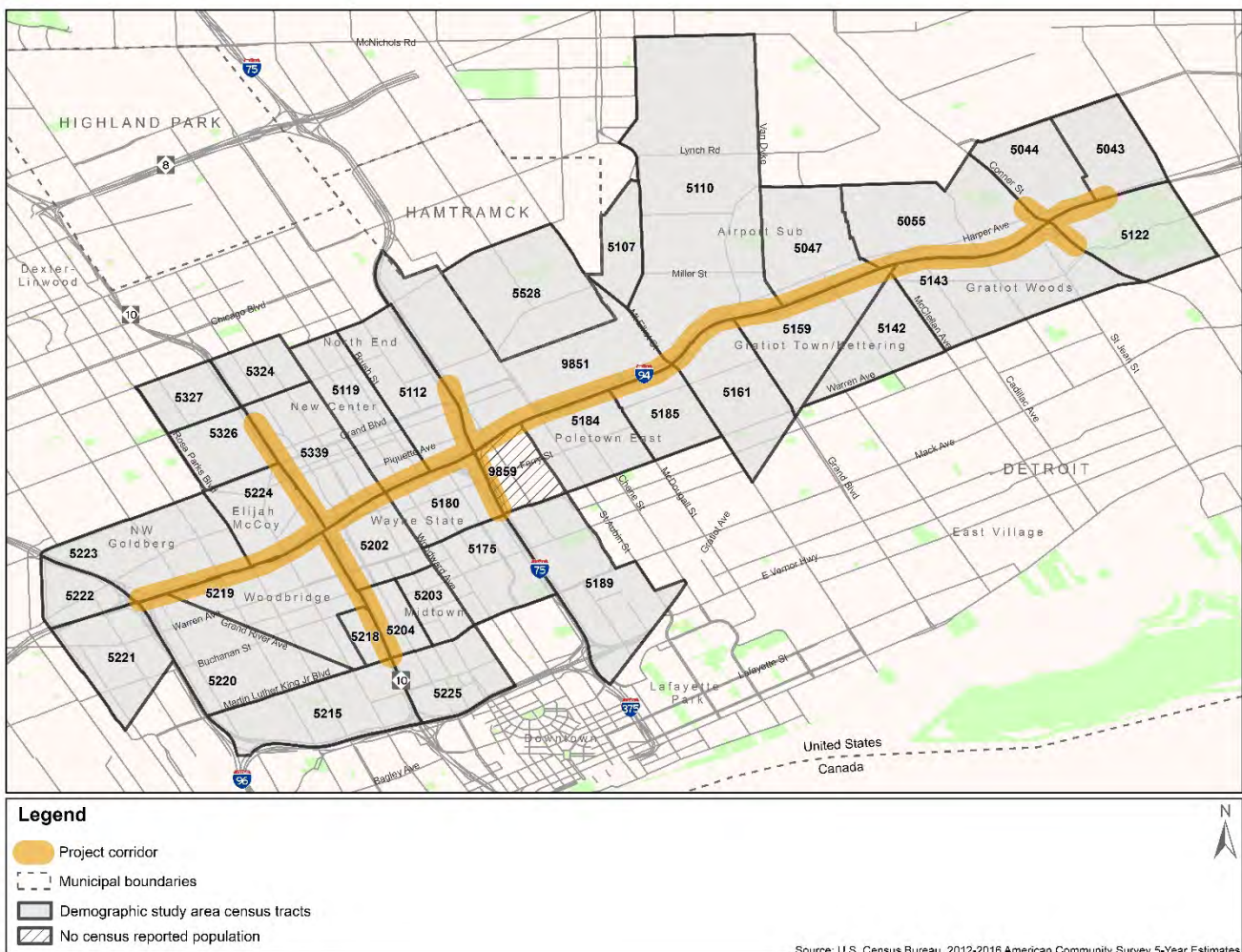
DEMOGRAPHIC STUDY AREA DATA ANALYSIS

I-94 Modernization Project and Section 4(f) Analysis

02/27/2018 (rev. 2/4/19)

METHODOLOGY

A demographic study area was established for the project corridor to serve as the basis for data collection. The primary source of data was from the U.S. Census Bureau and the *2012-2016 American Community Survey (ACS) 5-Year Estimates* (United States Census Bureau, 2018). Other sources were utilized as noted. The data presented in this appendix was collected for the census tracts in the demographic study area shown in Figure 1. Demographic study area data was compared to the city of Detroit, Wayne County and state of Michigan where applicable.

FIGURE 1: DEMOGRAPHIC STUDY AREA

DATA COLLECTION SUMMARY TABLES

TABLE 1: CURRENT AND PAST POPULATION

Location	2000 Census	2010 Census	Change 2000 to 2010	2016 ACS	2017ACS	Change 2016-2017
Demographic Study Area*	89,215	65,783	-26.3%	63,528	63,530	.0031%
Detroit	951,270	713,777	-25.0%	683,443	679,865	-0.5%
Wayne County	2,061,162	1,820,584	-11.7%	1,767,593	1,763,822	-0.2%
Southeast Michigan**	4,833,492	4,704,743	-2.7%	4,716,448	4,727,536	0.2%
State of Michigan	9,938,444	9,883,640	-0.5%	9,909,600	9,925,568	0.2%

Source: U.S. Census Bureau – 2000 Census, 2010 Census, 2012-2016 American Community Survey 5-Year Estimates, 2013-2017
* The demographic study area includes census tracts adjacent to the Project limits (see map in Appendix C).
**Southeast Michigan includes Livingston, Macomb, Monroe, Oakland, St. Clair, Washtenaw, and Wayne Counties.

TABLE 2: PROJECTED POPULATION

Location	Population					Percent Change ('20 to '40)
	2020	2025	2030	2035	2040	
Detroit	624,673	612,345	609,647	613,623	614,969	-1.6%
Wayne County	1,700,779	1,675,347	1,664,635	1,661,590	1,656,931	-2.6%
Southeast Michigan	4,646,938	4,648,713	4,678,718	4,708,371	4,742,083	2.0%

Source: Southeast Michigan Council of Governments – Population Estimates. http://semcog.org/Population-Estimates (Data update expected Spring 2018)

TABLE 3: POPULATION CHARACTERISTICS (2016)

Characteristics	Demographic study area	City of Detroit	Wayne County	State of Michigan
Total persons	63,528	683,443	1,767,593	9,909,600
Median age	20.8 – 50.1	34.8	37.8	39.5
Males	49.1%	47.3%	48.1%	49.1%
Females	50.9%	52.7%	51.9%	50.9%
Persons 65 years and older	11.9%	12.6%	13.8%	15.4%
Persons under 18 years	20.5%	24.6%	24.2%	22.5%

Source: U.S. Census Bureau, 2012-2016 American Community Survey 5-Year Estimates

TABLE 4: RACE (2016)

Characteristics	Demographic study area	City of Detroit	Wayne County	State of Michigan
Total persons	63,528	683,443	1,767,593	9,909,600
White	19.8%	9.5%	49.7%	75.7%
Minority	80.2%	90.5%	50.3%	24.3%
Black or African American	72.2%	79.4%	39.1%	13.7%
Hispanic	1.5%	7.5%	5.7%	4.8%
American Indian/Alaska Native	0.4%	0.3%	0.3%	0.5%
Asian	3.5%	1.4%	2.9%	2.8%
Native Hawaiian or Pacific Islander	<0.1%	<0.1%	<0.1%	<0.1%
Some Other Race	0.2%	0.2%	0.2%	0.1%
Two or More Races	2.4%	1.7%	2.1%	2.4%

Source: U.S. Census Bureau, 2012-2016 American Community Survey 5-Year Estimates

TABLE 5: LANGUAGE SPOKEN AT HOME (2016)

Characteristics	Demographic study area	City of Detroit	Wayne County	State of Michigan
Total persons 5 years and over	59,268	634,560	1,652,139	9,335,635
English only	88.0%	89.5%	86.5%	90.6%
Speak English less than very well	4.9%	4.4%	5.1%	3.4%
Language other than English	12.0%	10.5%	13.5%	9.4%
Spanish	1.4%	6.5%	4.1%	2.9%
Other Indo-European language	3.3%	1.8%	3.4%	2.8%
Asian and Pacific Islander languages	1.2%	0.4%	1.1%	1.6%
Other languages	6.1%	1.9%	4.9%	1.9%

Source: U.S. Census Bureau, 2012-2016 American Community Survey 5-Year Estimates

TABLE 6: INCOME AND DISABILITY (2016)

Characteristics	Demographic study area	City of Detroit	Wayne County	State of Michigan
Median household income	$9,809 - $30,982	$26,249	$42,043	$50,803
Per capita income	$4,930- $25,690	$15,562	$23,666	$27,549
Persons below poverty level	51.2%	39.4%	24.5%	16.3%
Unemployed persons 16 years and older in labor force	20.8%	11.9%	7.6%	5.2%

Source: U.S. Census Bureau, 2012-2016 American Community Survey 5-Year Estimates

TABLE 7: HOUSEHOLDS

Location	2000 Census	2010 Census	2016 ACS	Percent Change ('10 to '16)
Demographic study area	33,920	27,551	27,109	-1.6%
Detroit	336,428	269,445	256,985	-4.6%
Wayne County	768,440	702,749	669,412	-4.7%
State of Michigan	3,785,661	3,872,508	3,860,394	-0.3%

Source: U.S. Census Bureau - 2000 Census, 2010 Census, 2012-2016 American Community Survey 5-Year Estimates

TABLE 8: HOUSEHOLD CHARACTERISTICS (2016)

Characteristics	Demographic study area	City of Detroit	Wayne County	State of Michigan
Total households	27,109	256,985	669,412	3,860,394
Average household size	1.3 – 3.75	2.61	2.61	2.51
Family households	40.0%	55.9%	62.2%	64.7%
Average family size	2.29 – 5.22	3.58	3.37	3.10

Source: U.S. Census Bureau, 2012-2016 American Community Survey 5-Year Estimates

TABLE 9: HOUSING UNITS

Location	2000 Census	2010 Census	2016 ACS	Percent Change ('10 to '16)
Demographic study area	40,751	36,501	38,442	5.3%
Detroit	375,096	349,170	365,859	4.8%
Wayne County	826,145	821,693	816,398	-0.6%
State of Michigan	4,234,279	4,532,233	4,544,920	0.3%

Source: U.S. Census Bureau - 2000 Census, 2010 Census, 2012-2016 American Community Survey 5-Year Estimates

TABLE 10: HOUSING UNIT CHARACTERISTICS (2016)

Characteristics	Demographic study area	City of Detroit	Wayne County	State of Michigan
Total housing units	38,442	365,859	816,398	4,544,920
Persons in group quarters	4,095	12,763	21,977	229,188
Owner-occupied units	27.8%	48.2%	62.1%	70.8%
Median value of owner-occupied units	$17,300 – $380,000	$41,000	$86,000	$127,800
Rental-occupied units	72.2%	51.8%	37.9%	29.2%
Median monthly rent	$239 - $908	$754	$808	$799
Detached units	32.2%	65.7%	69.7%	72.1%
Homeowner vacancy rate	6.8%	5.5%	2.9%	1.9%
Rental vacancy rate	6.3%	8.2%	6.9%	5.7%
Median year built	1939-2000	1947	1955	1970

Source: U.S. Census Bureau, 2012-2016 American Community Survey 5-Year Estimates

TABLE 11: JOBS (2010)

Characteristics	Demographic study area	City of Detroit	Wayne County	State of Michigan
Jobs	73,710	277,585	750,025	4,213,975

Note: Jobs based on workers place of work.

Source: Census Transportation Planning Products, 2006-2010 5-Year Estimates (latest year available)

TABLE 12: LABOR FORCE (2016)

Characteristics	Demographic study area	City of Detroit	Wayne County	State of Michigan
Population 16 years and over	51,661	530,855	1,389,694	7,953,581
In labor force	25,482	284,185	817,120	4,866,369
Civilian labor force	25,482	284,125	816,785	4,862,651
Unemployed	5,311	62,927	106,127	412,934
Armed force	0	60	335	3,718

Source: U.S. Census Bureau, 2012-2016 American Community Survey 5-Year Estimates

TABLE 13: EMPLOYMENT BY INDUSTRIAL CLASS IN THE DEMOGRAPHIC STUDY AREA (2016)

Characteristics	Employment	Percent
Civilian employed population 16 years and over	20,171	100%
Agriculture, forestry, fishing and hunting, and mining	102	0.5%
Construction	385	1.9%
Manufacturing	2,182	10.8%
Wholesale trade	153	0.8%
Retail trade	2,096	10.4%
Transportation and warehousing, and utilities	840	4.2%
Information	200	1.0%
Finance and insurance, and real estate and rental and leasing	881	4.4%
Professional, scientific, and management, and administrative and waste management services	2,029	10.0%
Educational services, and health care and social assistance	6,835	33.9%
Arts, entertainment, and recreation, and accommodation and food services	2,830	14.0%
Other services, except public administration	1,014	5.0%
Public administration	624	3.1%

Source: U.S. Census Bureau, 2012-2016 American Community Survey 5-Year Estimates

TABLE 14: MEANS OF TRANSPORATION TO WORK (2016)

Characteristics	Demographic study area	City of Detroit	Wayne County	State of Michigan
Workers 16 years and over	19,542	215,597	694,613	4,356,501
Drove alone	58.0%	68.8%	80.9%	82.5%
Carpooled	10.3%	13.3%	9.6%	8.8%
Public transportation	9.6%	8.2%	3.1%	1.4%
Walked	12.7%	3.7%	1.9%	2.2%
Other means	6.1%	2.4%	1.5%	1.3%
Worked at home	3.3%	3.6%	3.0%	3.8%

Source: U.S. Census Bureau, 2012-2016 American Community Survey 5-Year Estimates

TABLE 15: VEHICLES AVAILABLE (2016)

Characteristics	Demographic study area	City of Detroit	Wayne County	State of Michigan
Workers 16 years and over in households	18,801	214,113	692,549	4,317,681
No vehicles available	18.6%	11.5%	5.0%	2.8%
1 vehicle available	43.7%	40.0%	26.6%	20.4%
2 vehicles available	26.5%	33.6%	41.5%	43.9%
3 or more vehicles available	11.2%	14.9%	26.9%	32.9%

Source: U.S. Census Bureau, 2012-2016 American Community Survey 5-Year Estimates