



APPENDIX X  
**DOWNTOWN PLAN  
SUPPLEMENTAL ANALYSIS**

# APPENDIX 2 >>

The following graphics were included in the analysis and for discussion during the GR Forward process, here included for future reference and additional context.

<b>BASEMAPS .....</b>	<b>3</b>
<b>CENSUS MAPS &amp; DEMOGRAPHICS .....</b>	<b>11</b>
<b>CRIME DATA .....</b>	<b>15</b>
<b>LAND USE &amp; PHYSICAL SURVEY .....</b>	<b>23</b>
<b>HOUSING &amp; DEVELOPMENT POTENTIAL .....</b>	<b>26</b>
<b>MOBILITY .....</b>	<b>36</b>
<b>OPEN SPACE .....</b>	<b>53</b>
<b>PUBLIC INPUT .....</b>	<b>56</b>

# AERIAL

UNITED STATES GEOLOGICAL SURVEY - 2005



FIG A2.1: *Satellite aerial of Downtown Grand Rapids*

# FIGURE GROUND

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FIG A2.2: Figure ground map of Downtown Grand Rapids

# CENSUS BLOCK GROUPS

2010 CENSUS

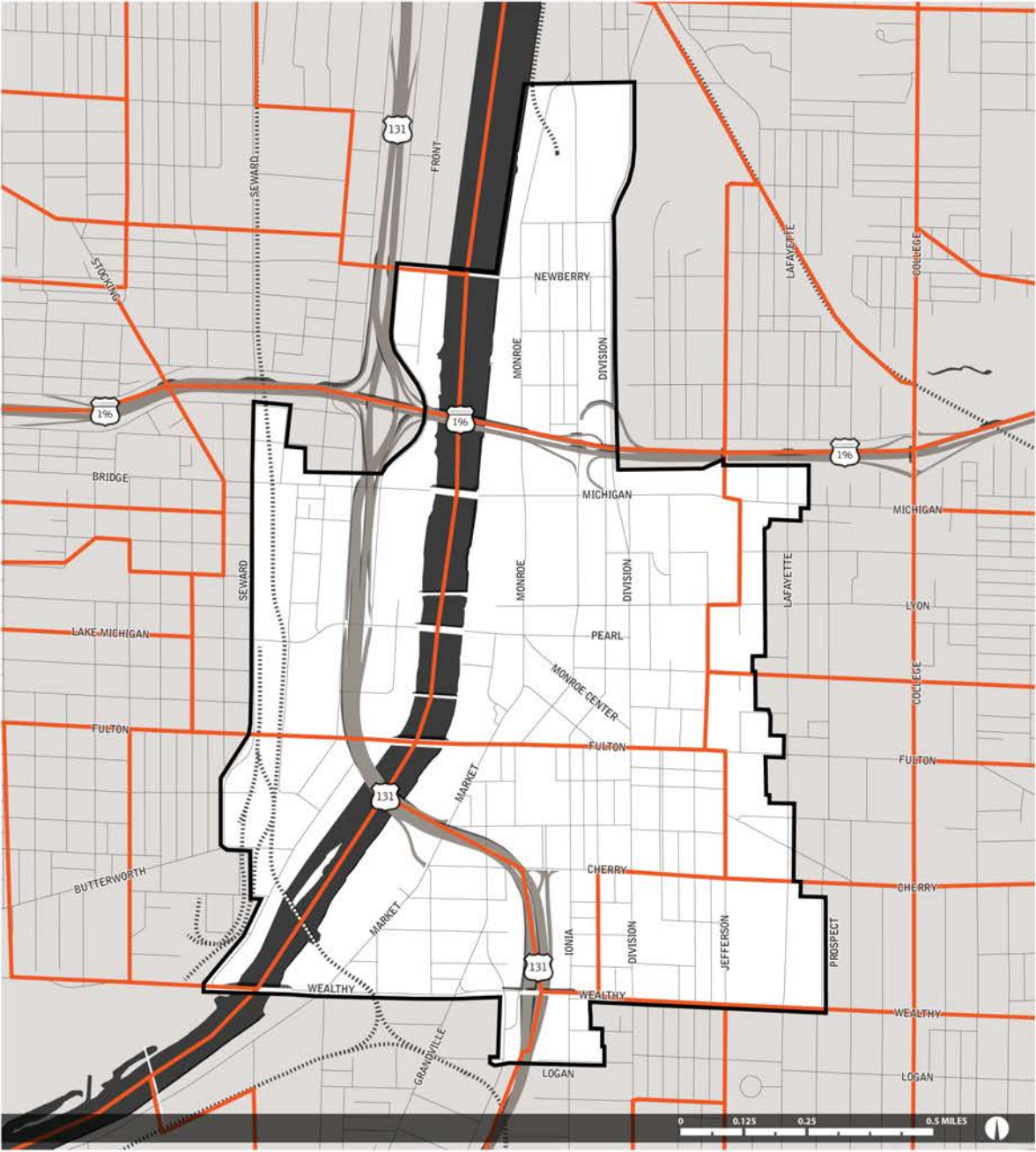
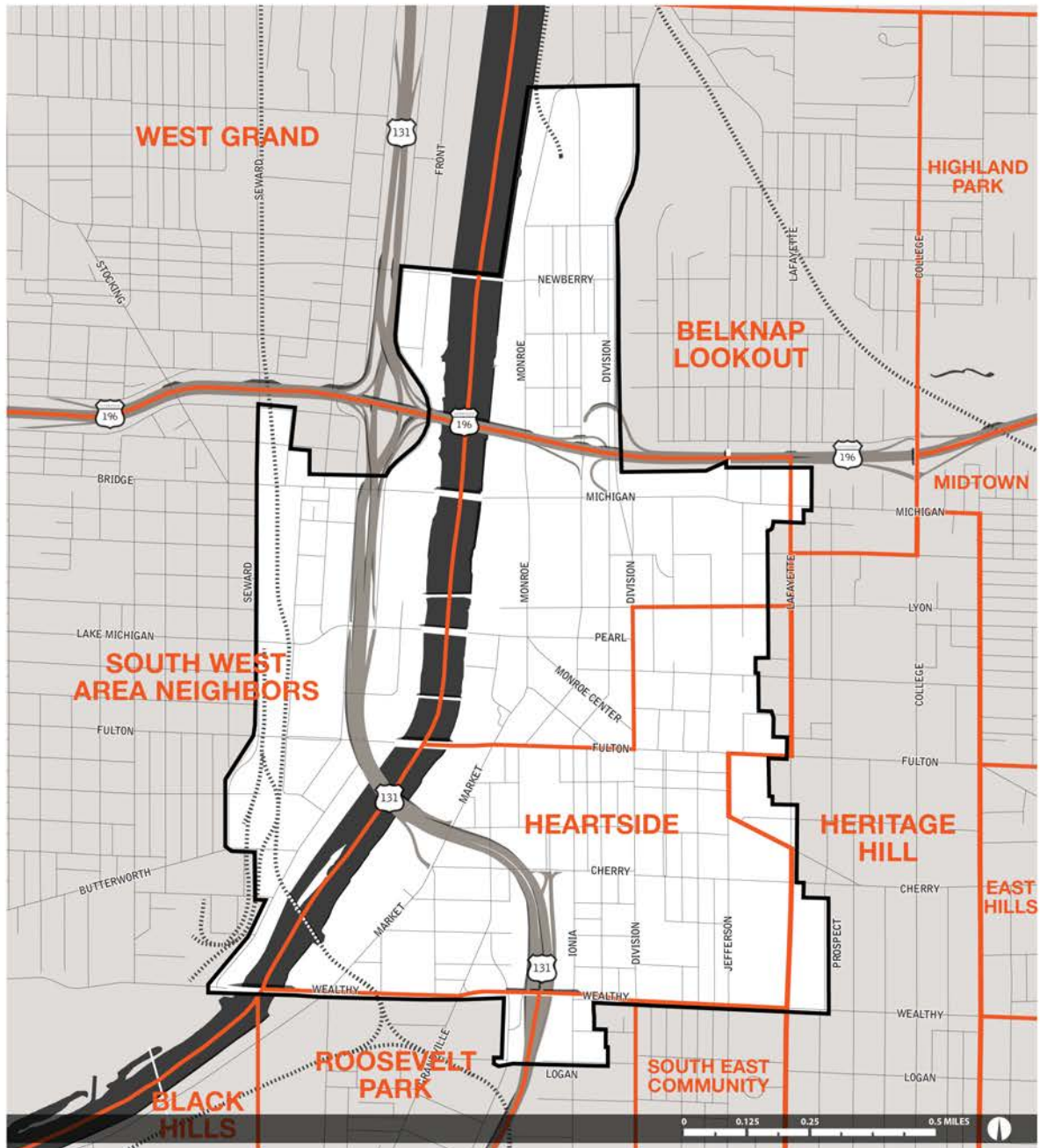


FIG A2.3: Downtown Grand Rapids Census Block Groups

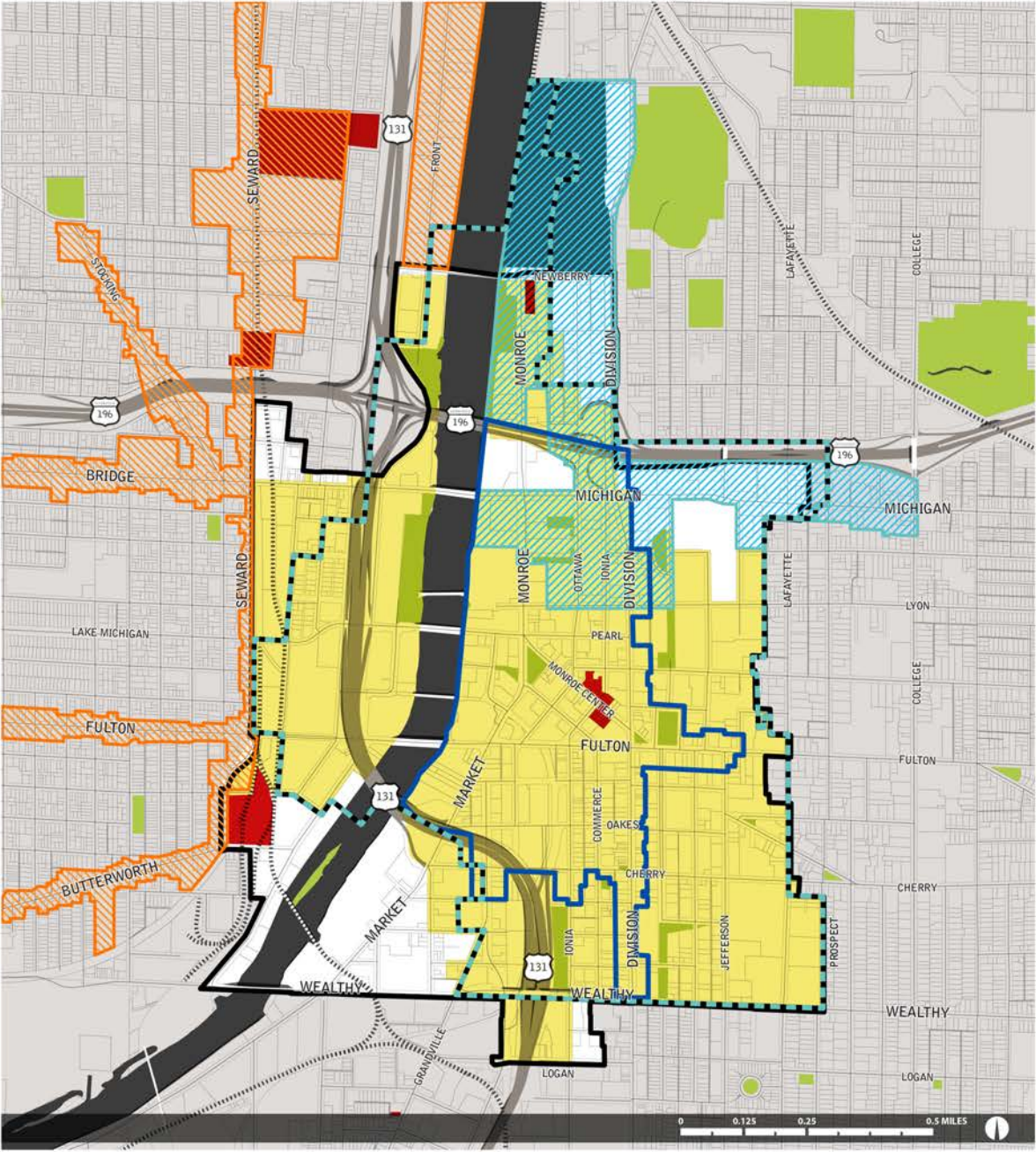
# NEIGHBORHOOD ASSOC.



— NEIGHBORHOOD ASSOCIATION

FIG A2.4: Neighborhood associations in the greater Downtown Grand Rapids area

# DOWNTOWN DISTRICTS




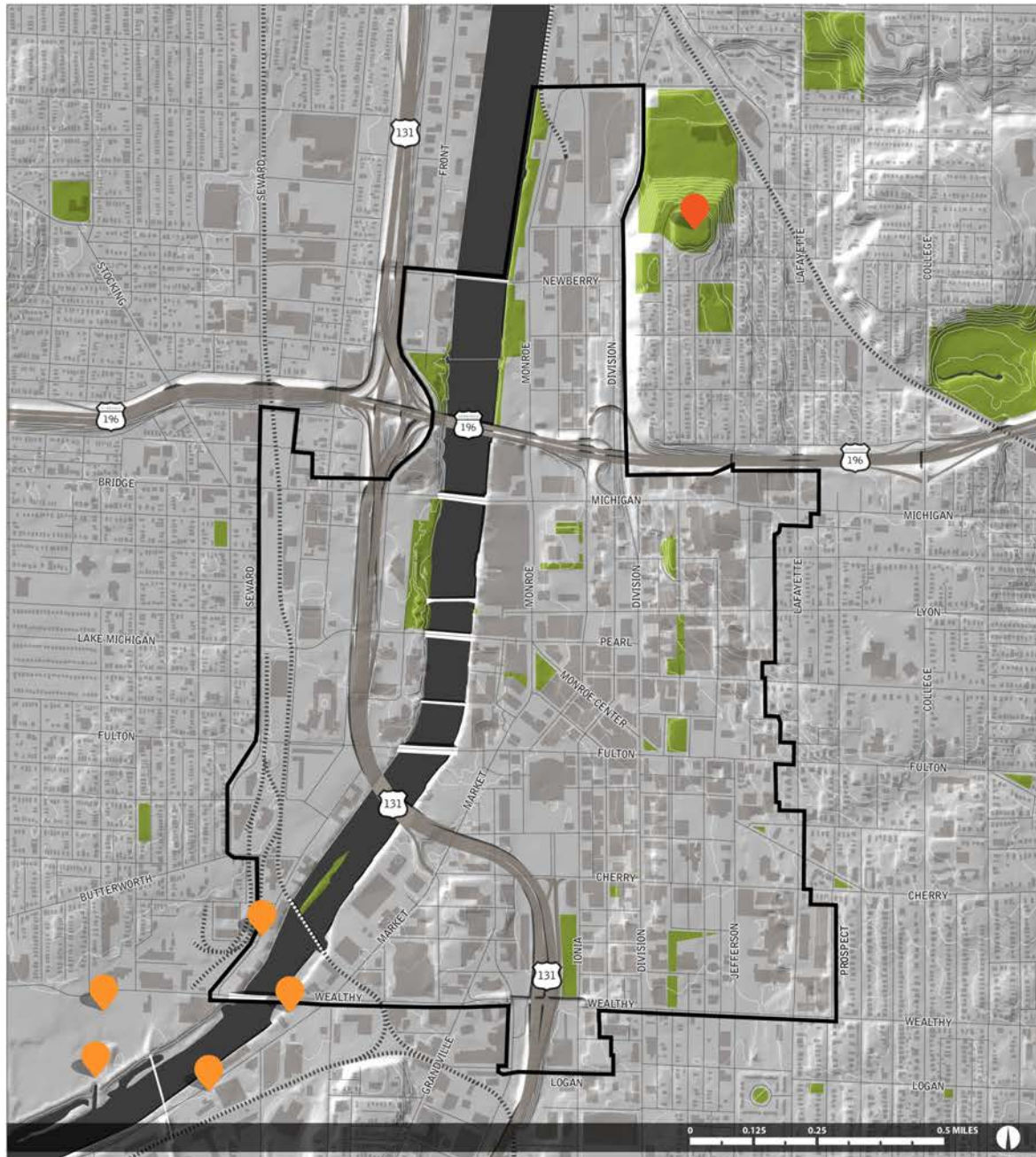
-  DDA BOUNDARY
-  DDA TIF
-  DID ASSESSMENT AREA
-  DID SERVICE AREA
-  WEST SIDE CORRIDOR IMPROVEMENT DISTRICT
-  MONROE NORTH TIFA
-  SMART ZONE
-  RENAISSANCE ZONES

FIG A2.5: Downtown districts

# TOPOGRAPHY

CITY OF GRAND RAPIDS





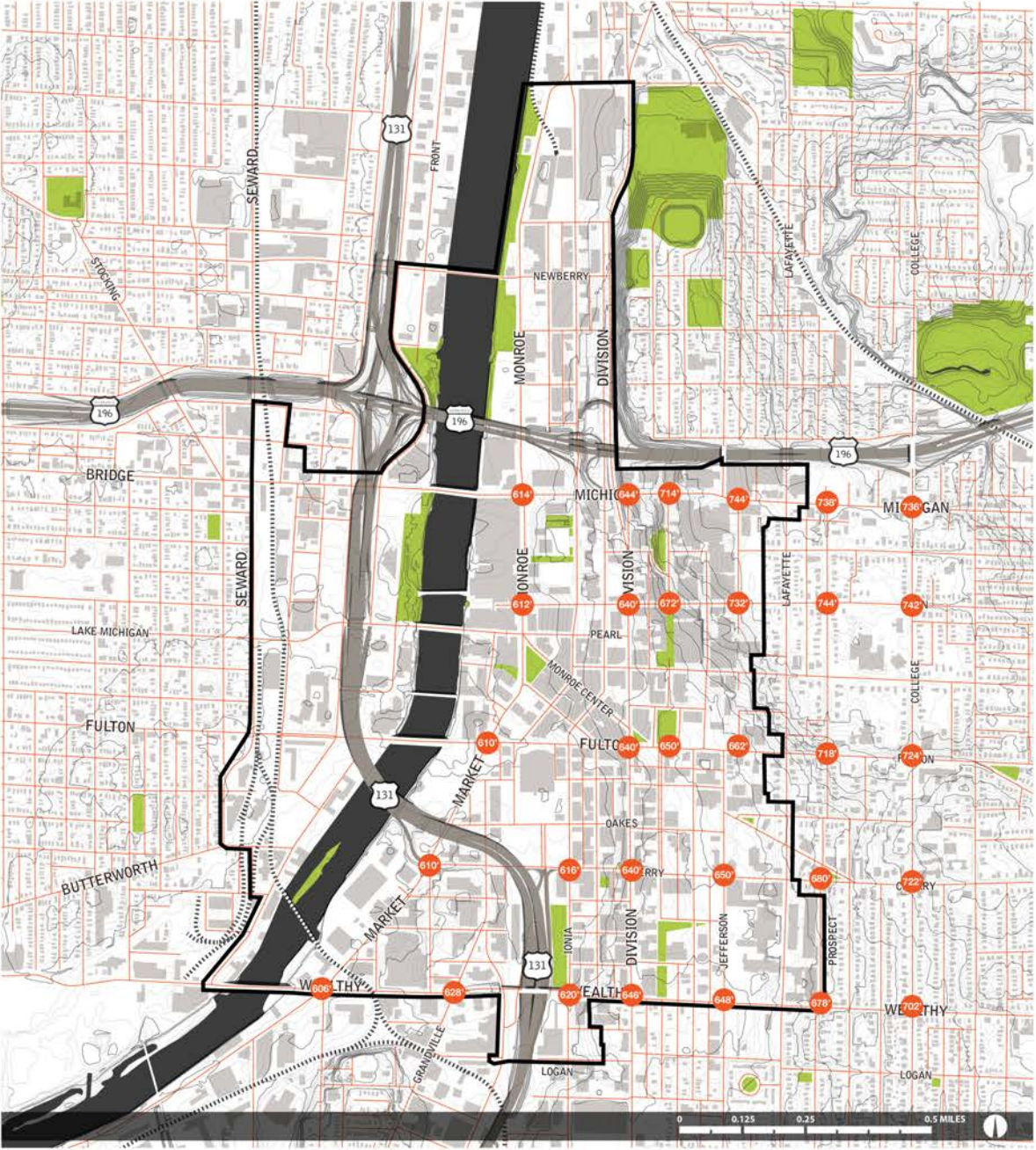
-  HIGH POINT - ELEVATION: 770 FT.
-  LOW POINTS - ELEVATION: 600 FT.

FIG A2.6: Topographic hillshade map



# CONTOURS



- 10 Ft. Contour
- 2 Ft. Contour

FIG A2.7: Contours and elevation reference points

# FLOOD ZONES

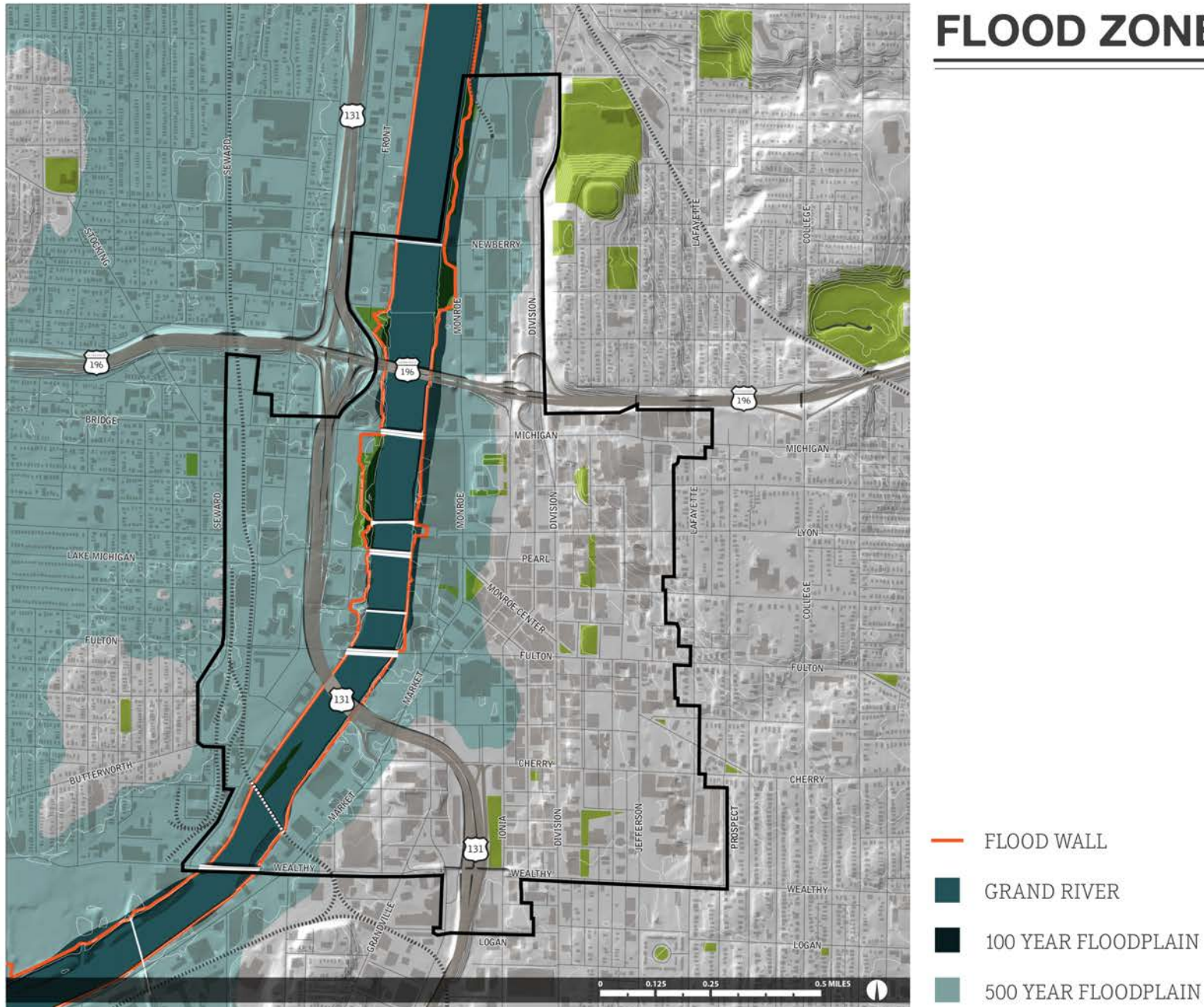
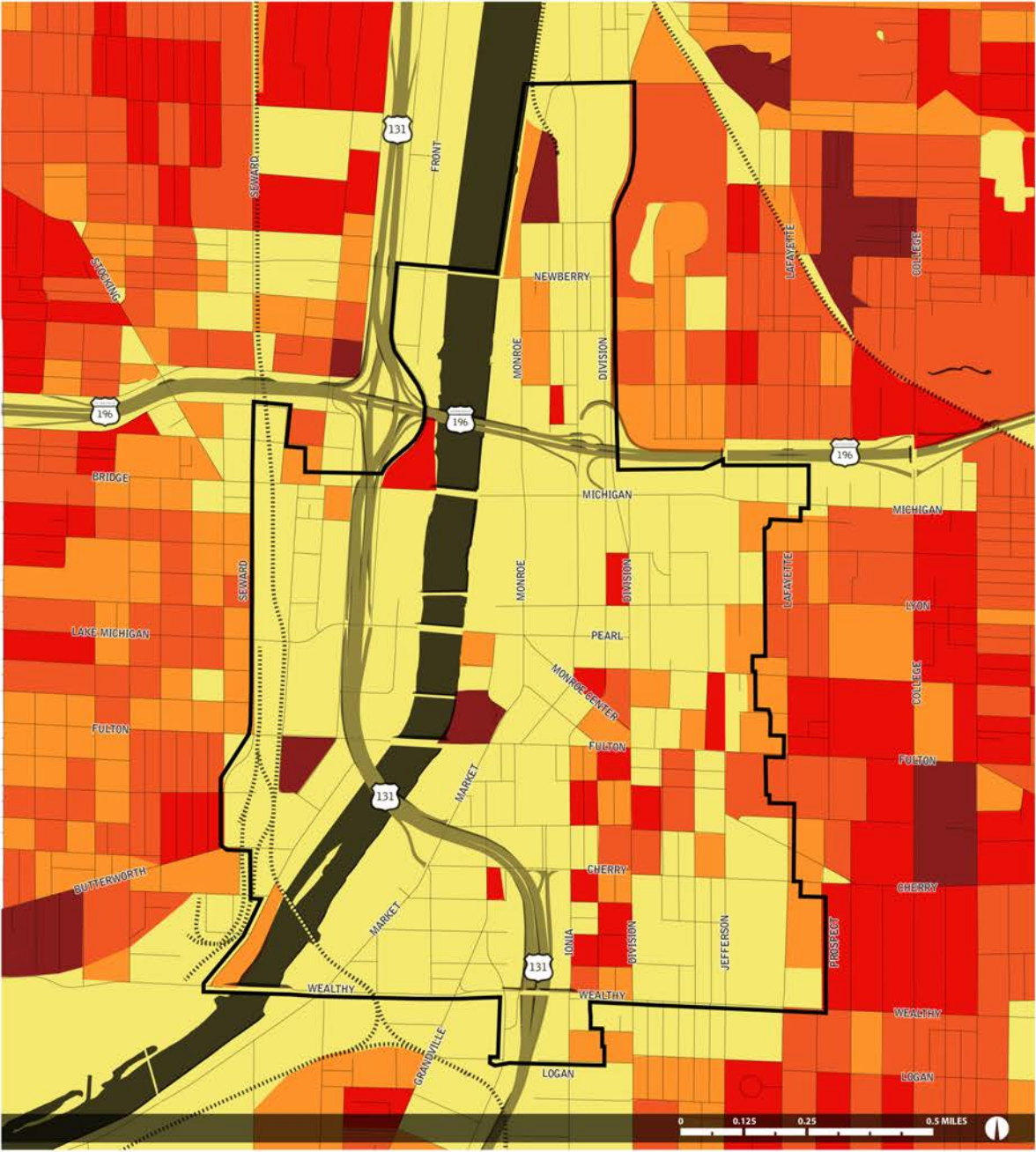


FIG A2.8: Downtown Grand Rapids flood plains

# PERSONS PER BLOCK

2010 CENSUS - BLOCK LEVEL



- 0 - 10 persons
- 10 - 50 persons
- 50 - 100 persons
- 100 - 250 persons
- 250+ persons

FIG A2.9: Population density by Census Block

# POPULATION CHANGE

DECENNIAL CENSUS - 2000 + 2010

DOWNTOWN'S POPULATION INCREASED  
**15%**  
BETWEEN 2000 & 2010

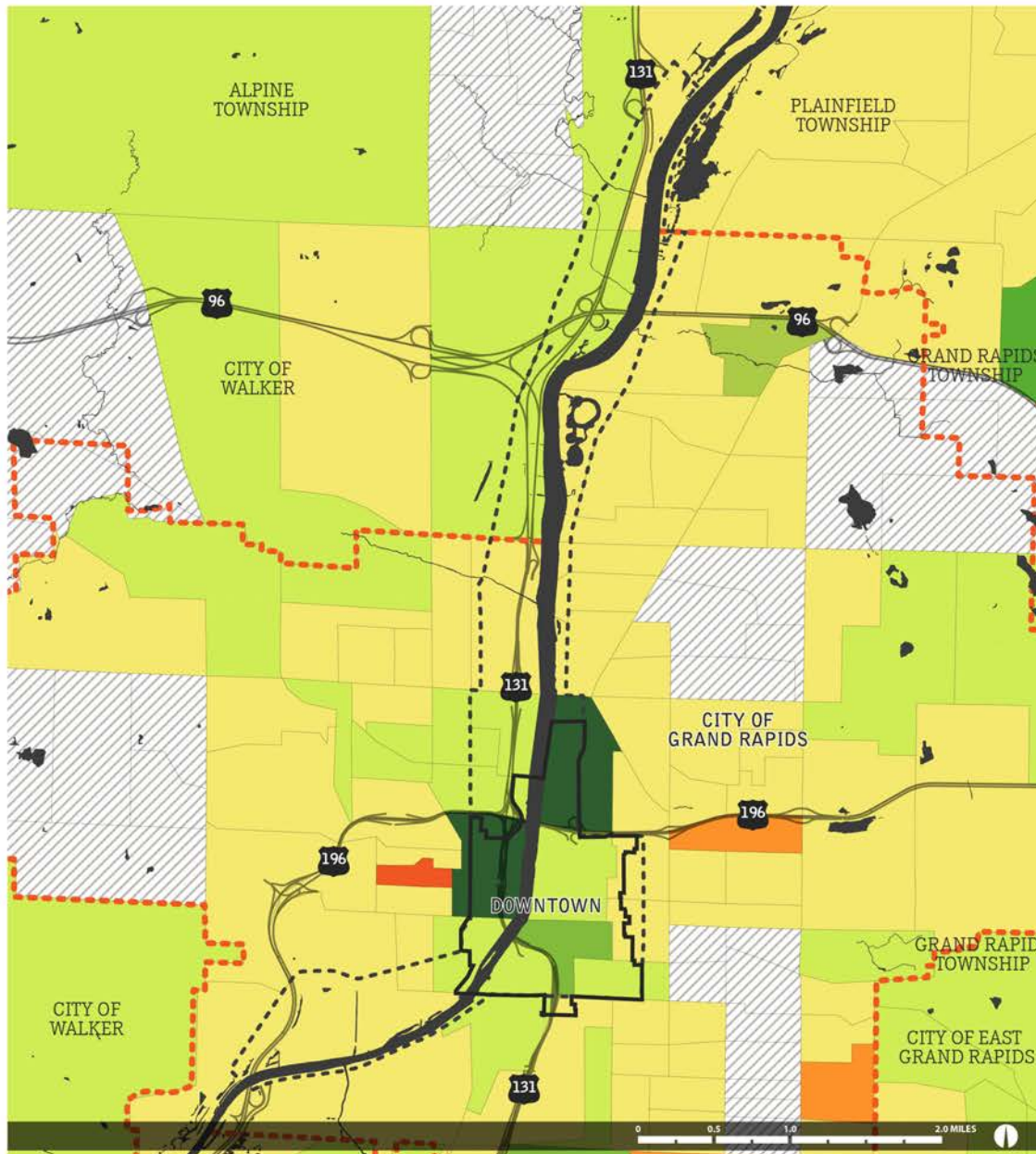
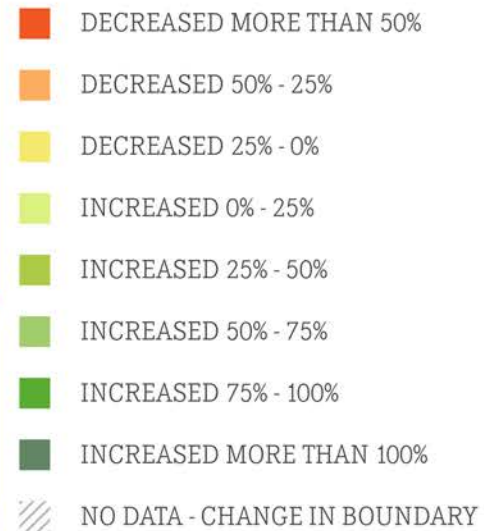


FIG A2.10: Change in population map, 2000 - 2010

# RACE

2010 DECENNIAL CENSUS

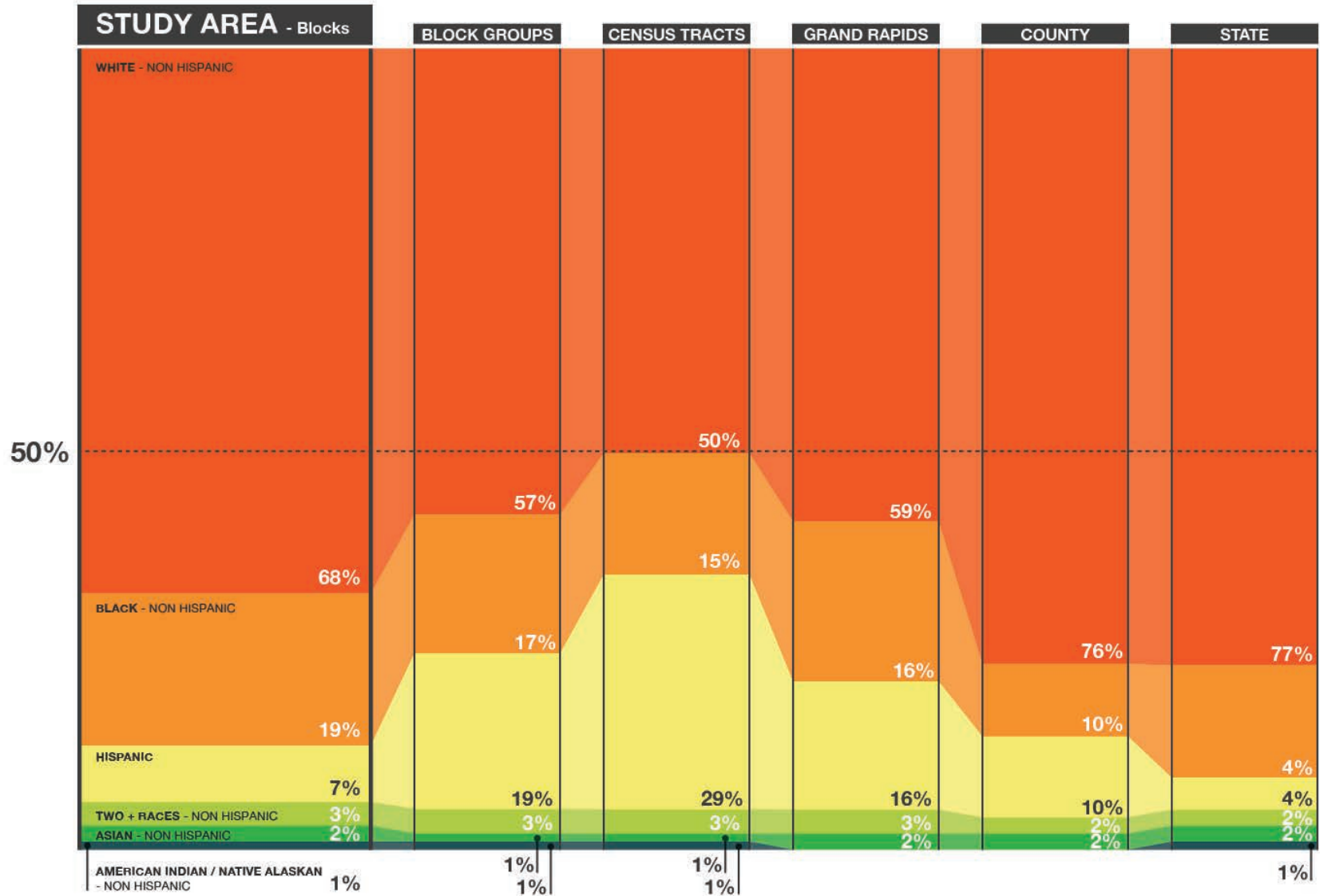


FIG A2.11: Downtown Grand Rapids racial composition

# INCOME DENSITY

SOURCE: NP Calculations from Census, Realtor.com, WalkScore.com  
 Discretionary spending based on calculated % taken from Experian Discretionary Spending Report, 2011

	CINCINNATI (CBD)	INDIANAPOLIS (CBD/WHOLESALE)	MILWAUKEE (Juneau, Kilbourn, 3rd Ward)	GRAND RAPIDS (Downtown Heartside)
HOUSEHOLDS	5,283	5,301	9,290	2,410
MEDIAN INCOME	\$ 43,881	\$ 41,179	\$ 42,516	\$ 24,151
CONSUMER DISCRETIONARY MEDIAN SPENDING (CDMS)	\$ 8,337	\$ 7,824	\$ 8,078	\$ 5,313
AGGREGATE INCOME	\$ 231,823,323	\$ 218,289,879	\$ 394,973,640	\$ 58,203,910
CDMS TOTAL	\$ 44,046,431	\$ 41,475,077	\$ 75,044,992	\$ 12,804,860
APPROX. SQUARE MILES	1.0	1.1	1.13	0.5
ACRES	640	704	723	320
INCOME DENSITY PER ACRE	\$ 362,224	\$ 310,071	\$ 546,298	\$ 181,887
CDMS DENSITY PER ACRE	\$ 68,823	\$ 58,913	\$ 103,797	\$ 40,015

\* GR's income density substantially lags other Midwestern cities

FIG A2.12: Peer city income density comparison

# VIOLENT CRIME - 2005

GRAND RAPIDS POLICE DEPARTMENT

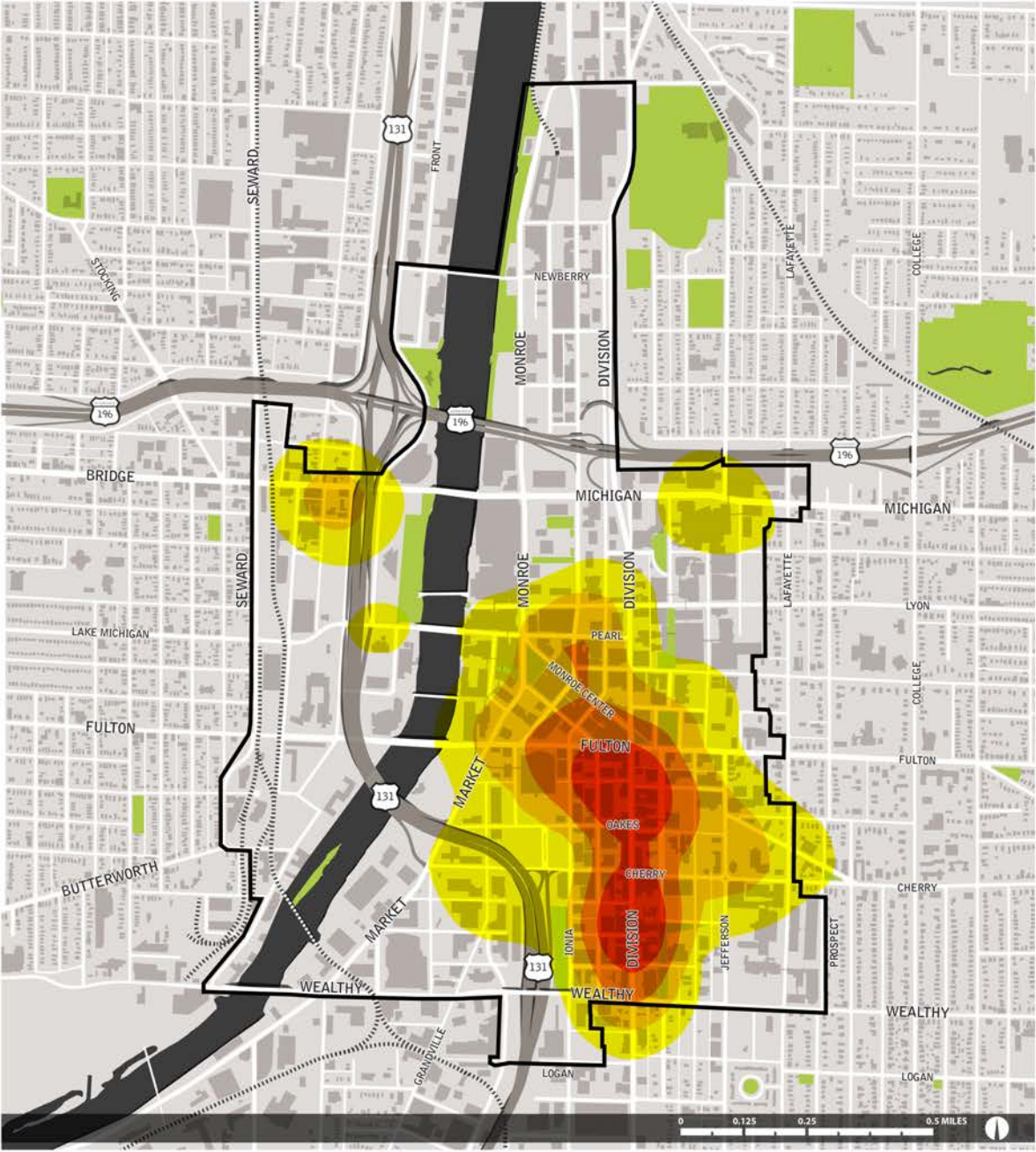


FIG A2.13: 2005 Violent crime

# VIOLENT CRIME - 2013

GRAND RAPIDS POLICE DEPARTMENT

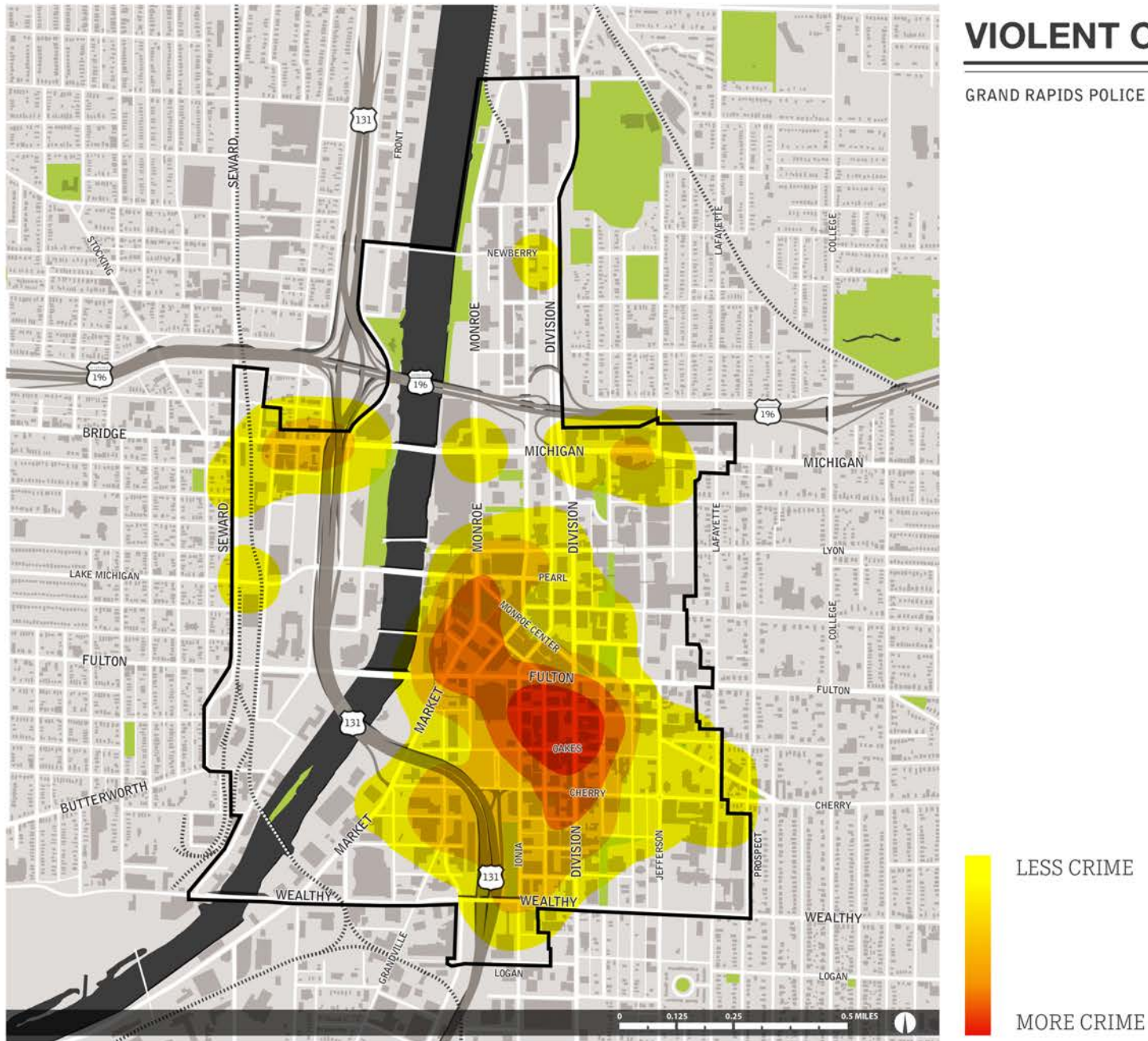


FIG A2.14: 2013 Violent crime



# PART 1 CRIME - 2005

GRAND RAPIDS POLICE DEPARTMENT

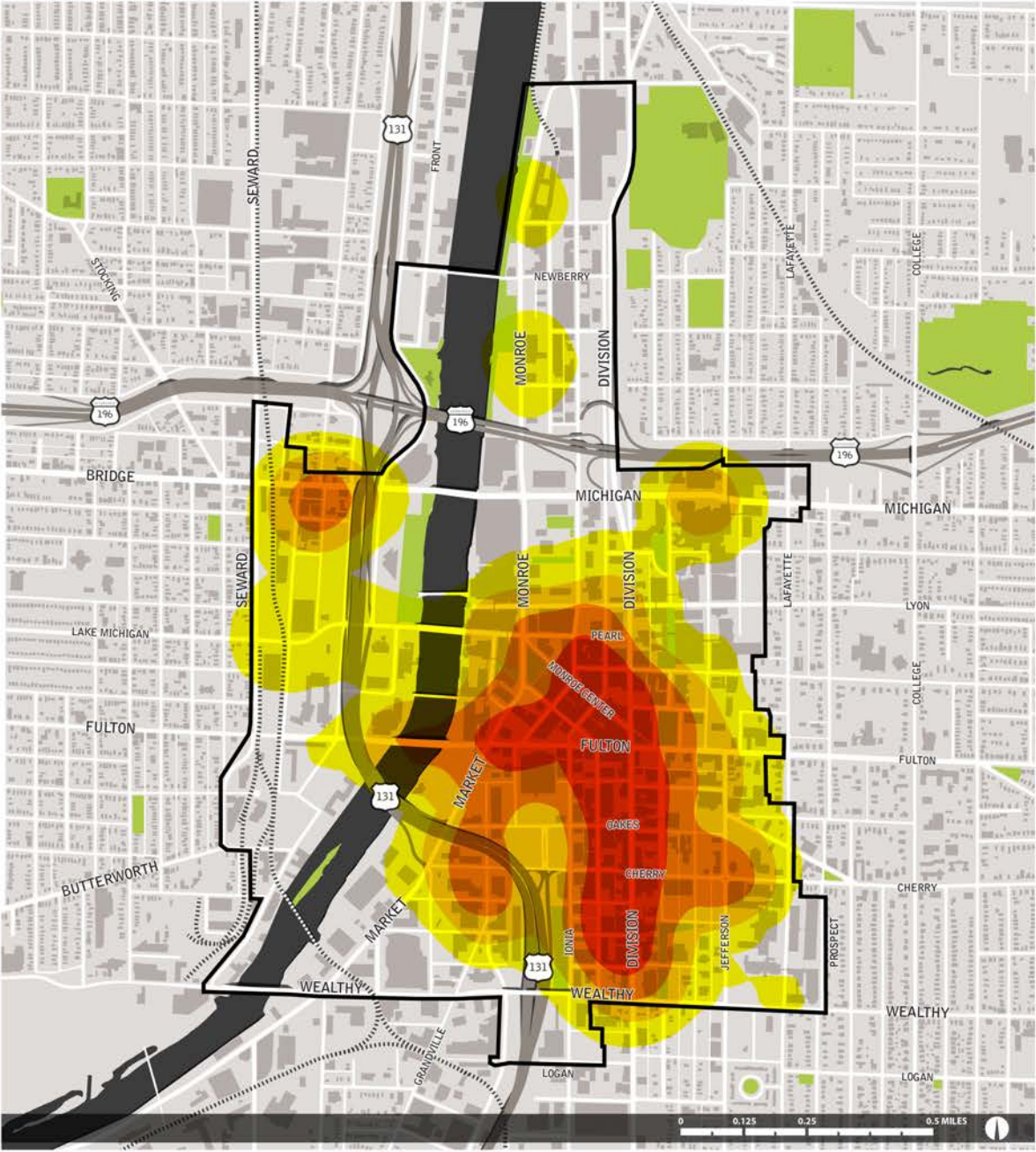


FIG A2.15: 2005 Part 1 crime map

# PART 1 CRIME - 2013

GRAND RAPIDS POLICE DEPARTMENT

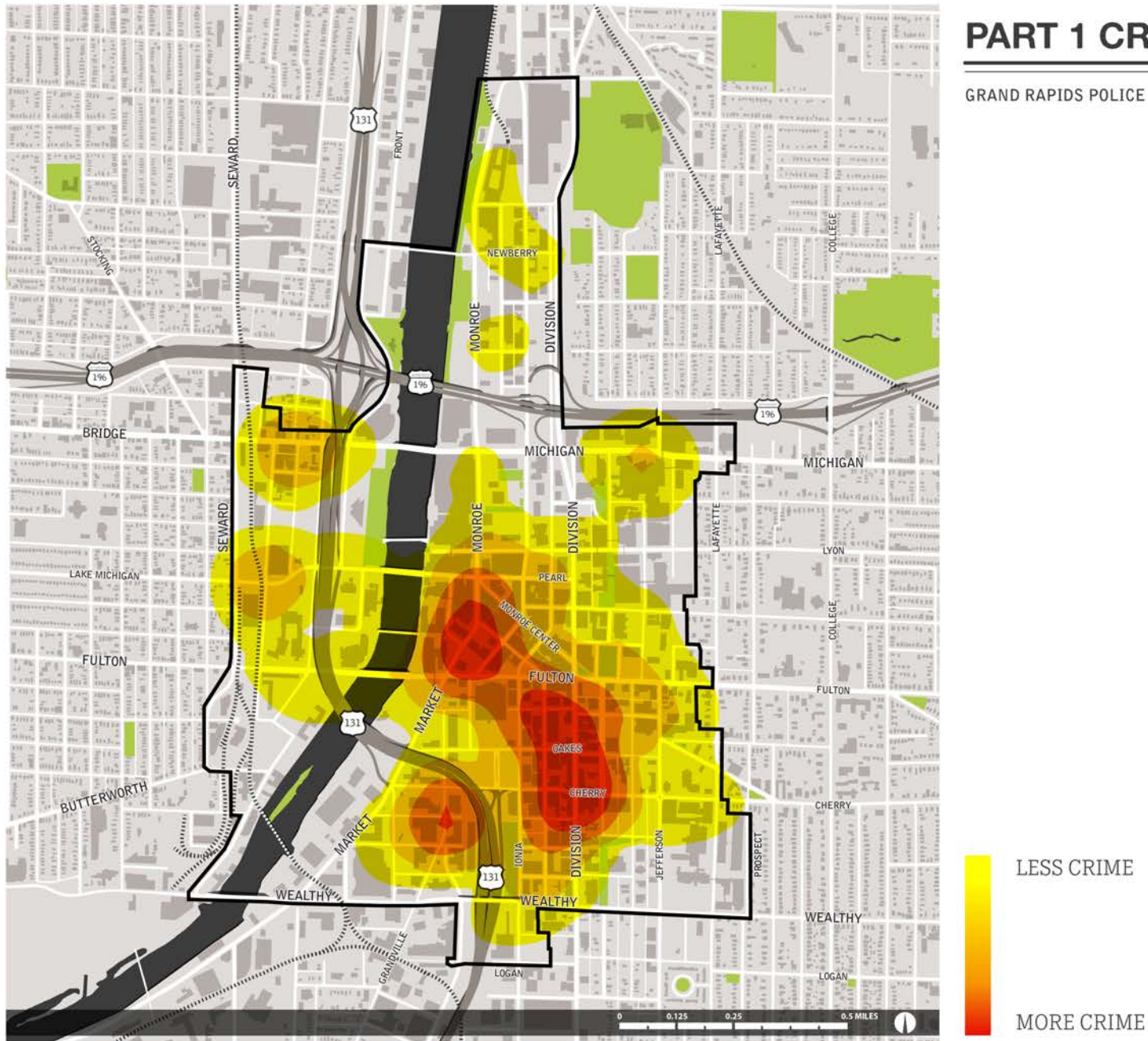


FIG A2.16: 2013 Part 1 crime map

# PART 2 CRIME - 2005

GRAND RAPIDS POLICE DEPARTMENT

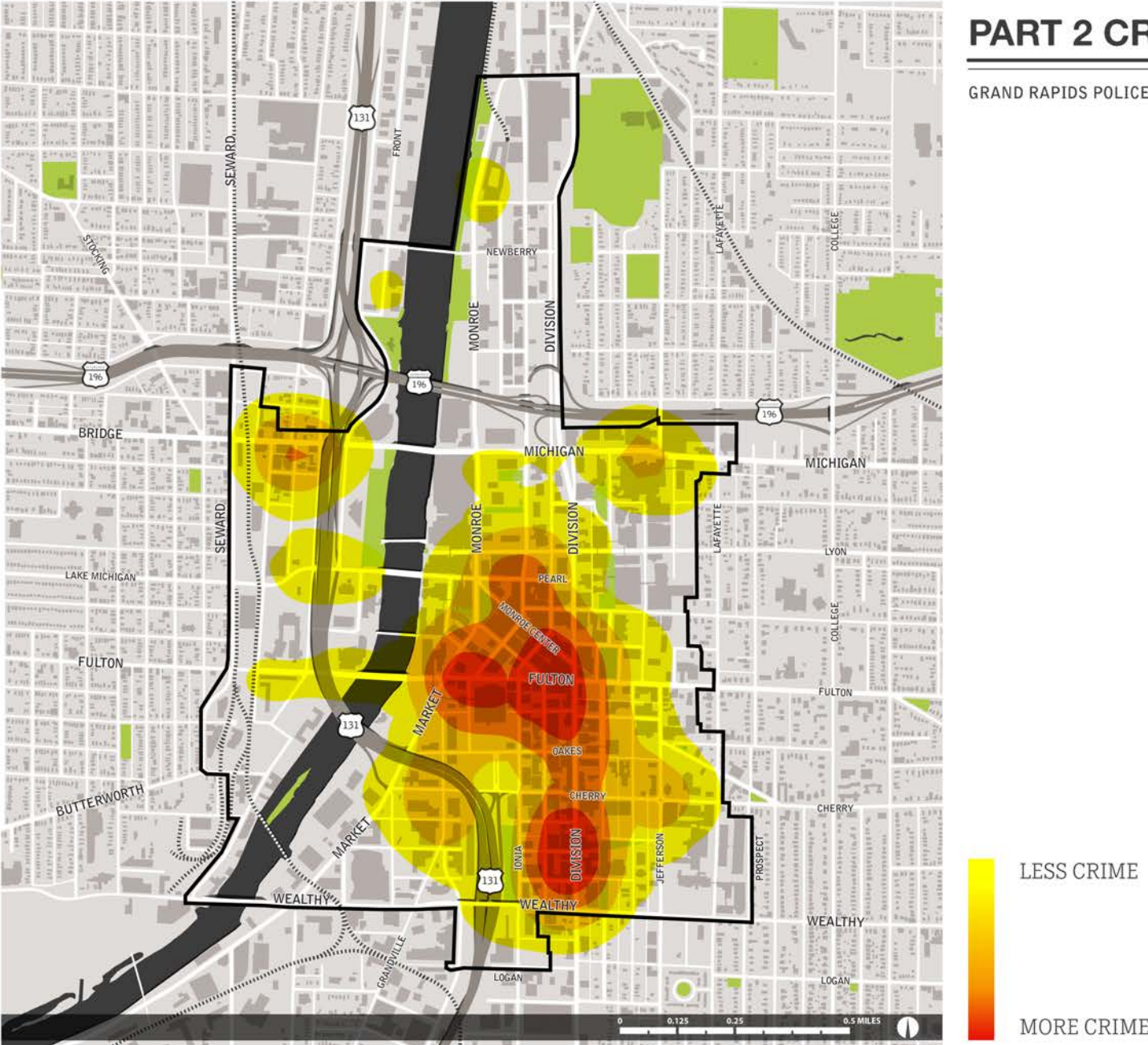


FIG A2.17: 2005 Part 2 crime map

# PART 2 CRIME - 2013

GRAND RAPIDS POLICE DEPARTMENT

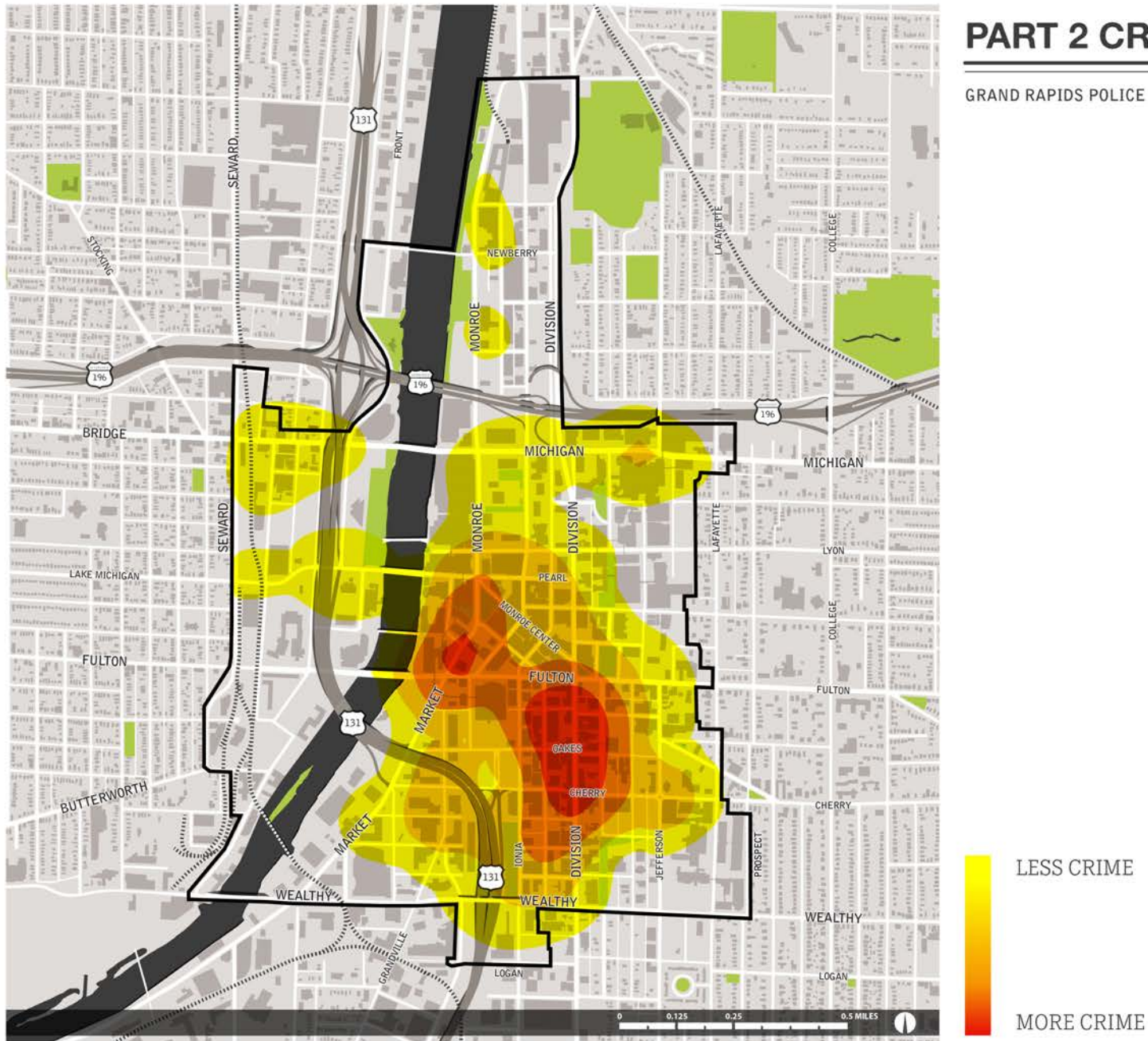


FIG A2.18: 2013 Part 2 crime map

# PROPERTY CRIME - 2005

GRAND RAPIDS POLICE DEPARTMENT

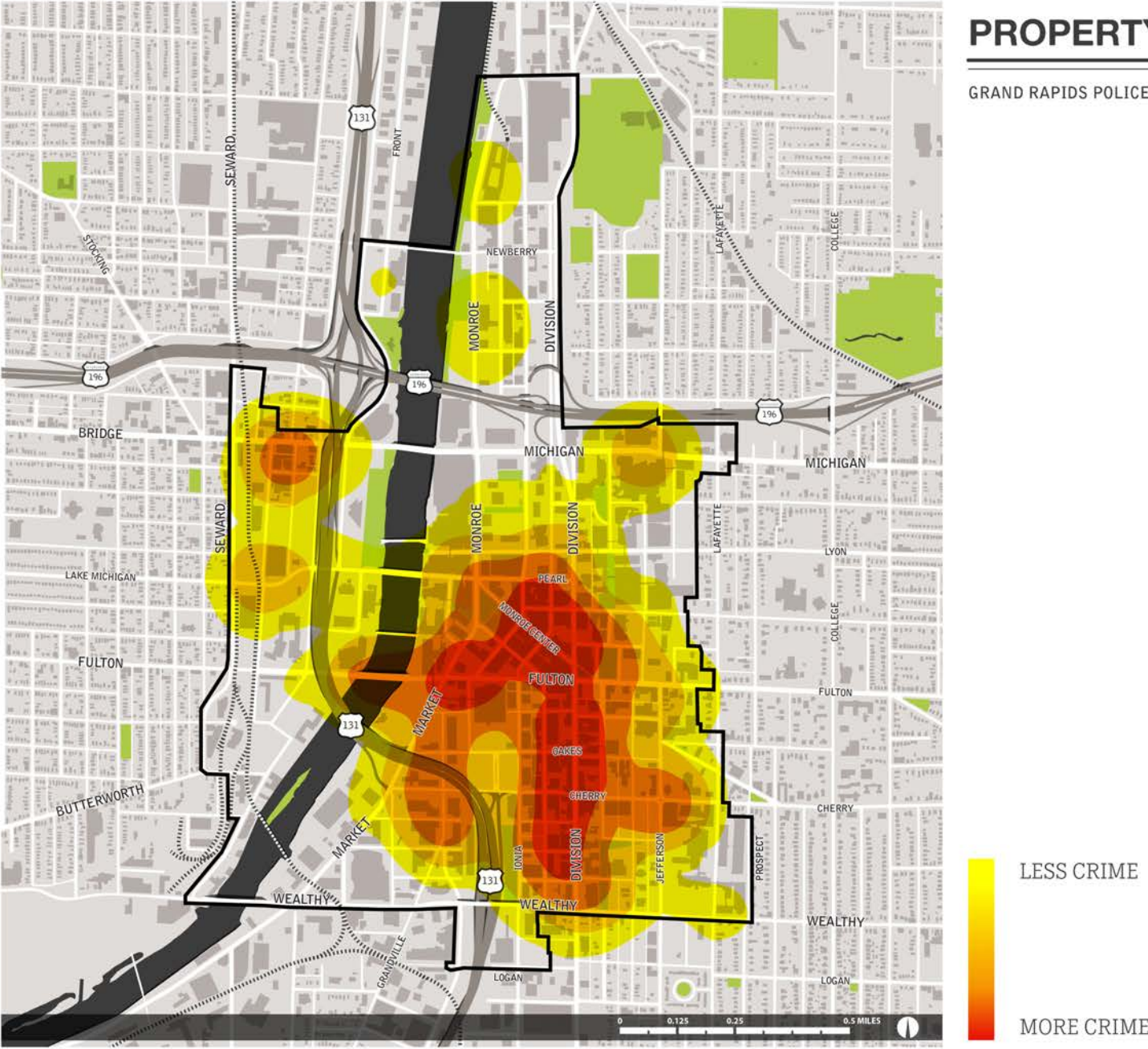


FIG A2.19: 2005 Property crime map

# PROPERTY CRIME - 2013

GRAND RAPIDS POLICE DEPARTMENT

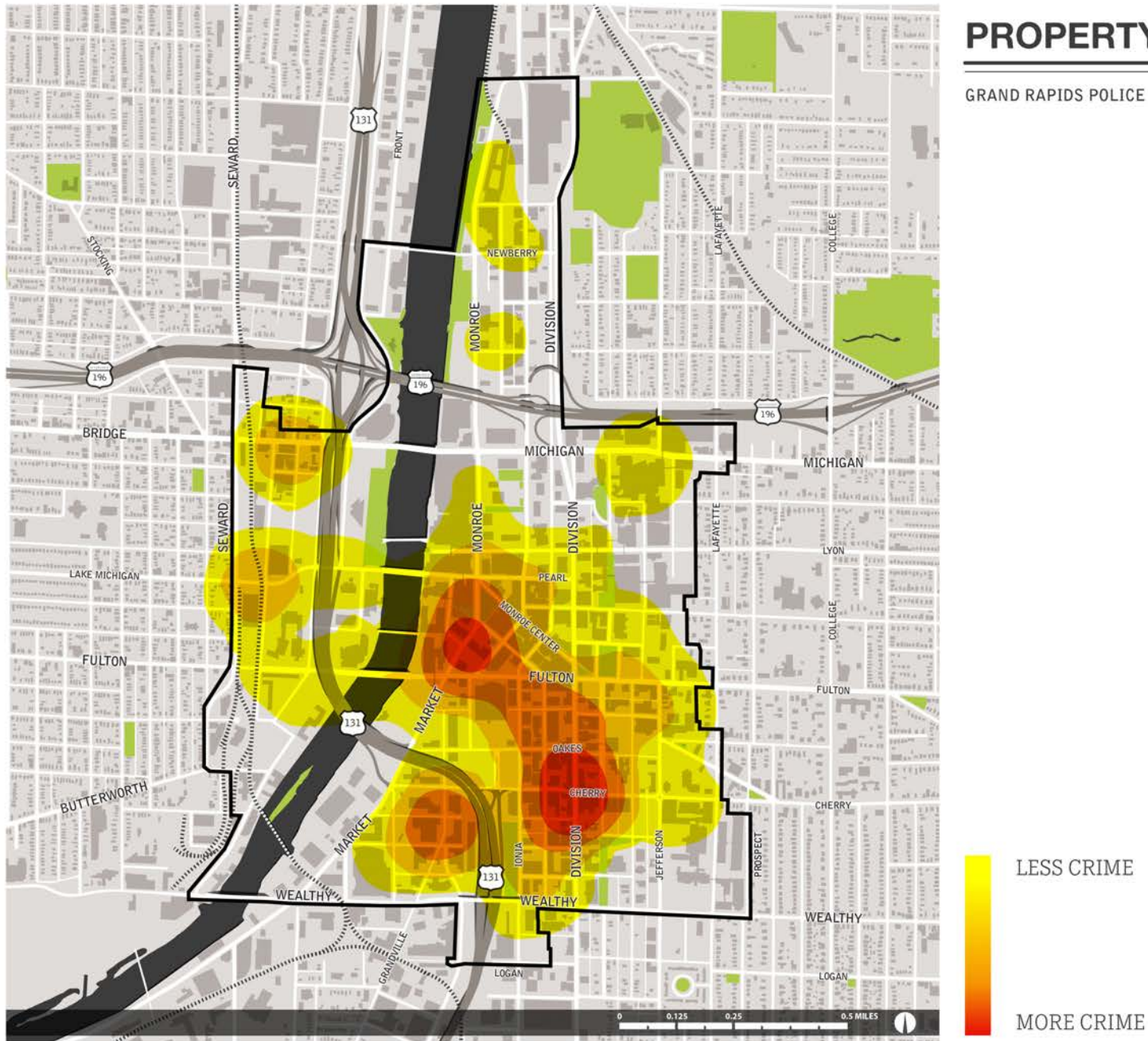
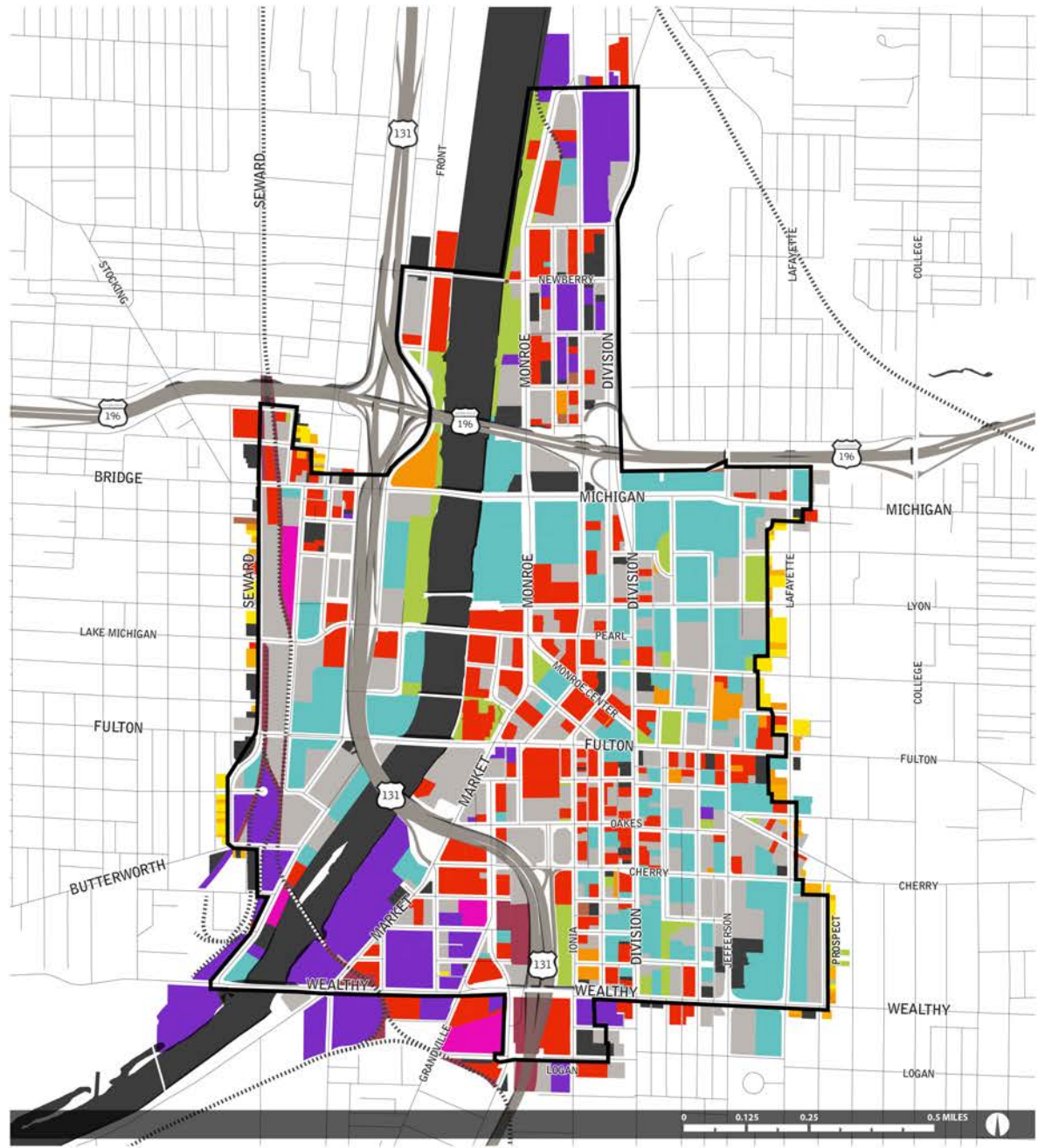


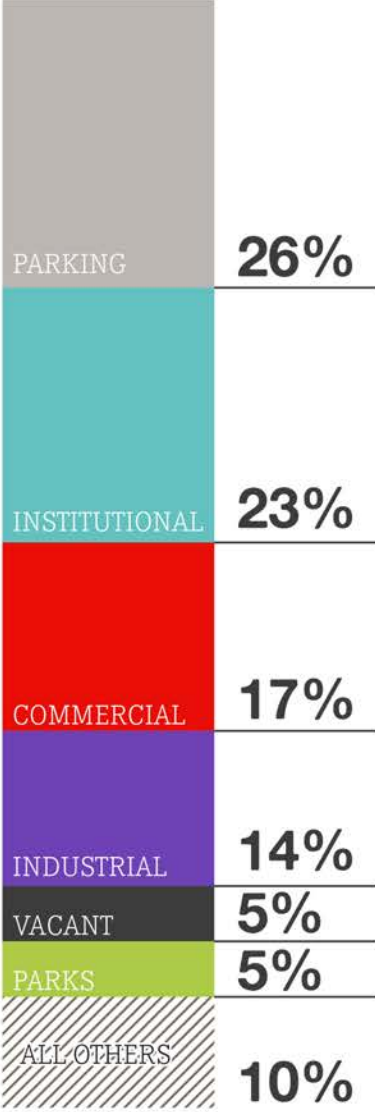
FIG A2.20: 2013 Property crime map



# LAND USE

2014 FIELD SURVEY

LAND USE BY AREA

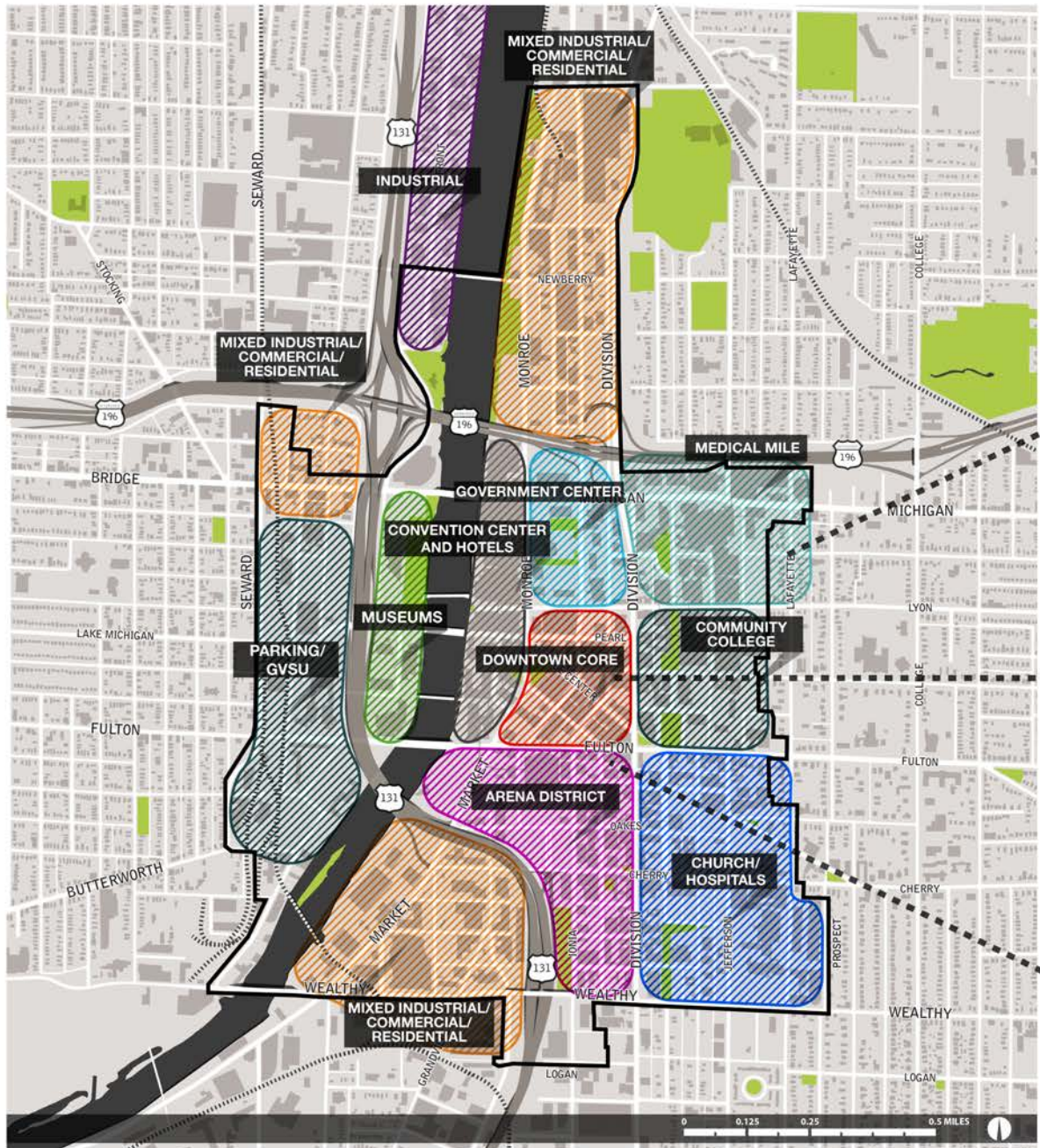


MULTI-FAMILY 1-2  
SINGLE-FAMILY RESIDENTIAL  
COMMERCIAL/INDUSTRIAL  
ROW/TRANSIT  
YARDS  
GARDENS

FIG A2.21: Land use map and breakdown

# SIMPLIFIED LAND USE

INTERFACE - STUDIO FIELD SURVEY



**MEDICAL MILE -**  
LANDLOCKED OR A CONTINUED  
DRIVER OF DOWNTOWN  
DEVELOPMENT?

WHAT IS THE FUTURE OF THE  
**DOWNTOWN CORE?**

**ARENA DISTRICT -**  
NEW DEVELOPMENT FROM GROWTH  
OR REDISTRIBUTION OF  
EXISTING USES?

FIG A2.22: Simplified land use/district map



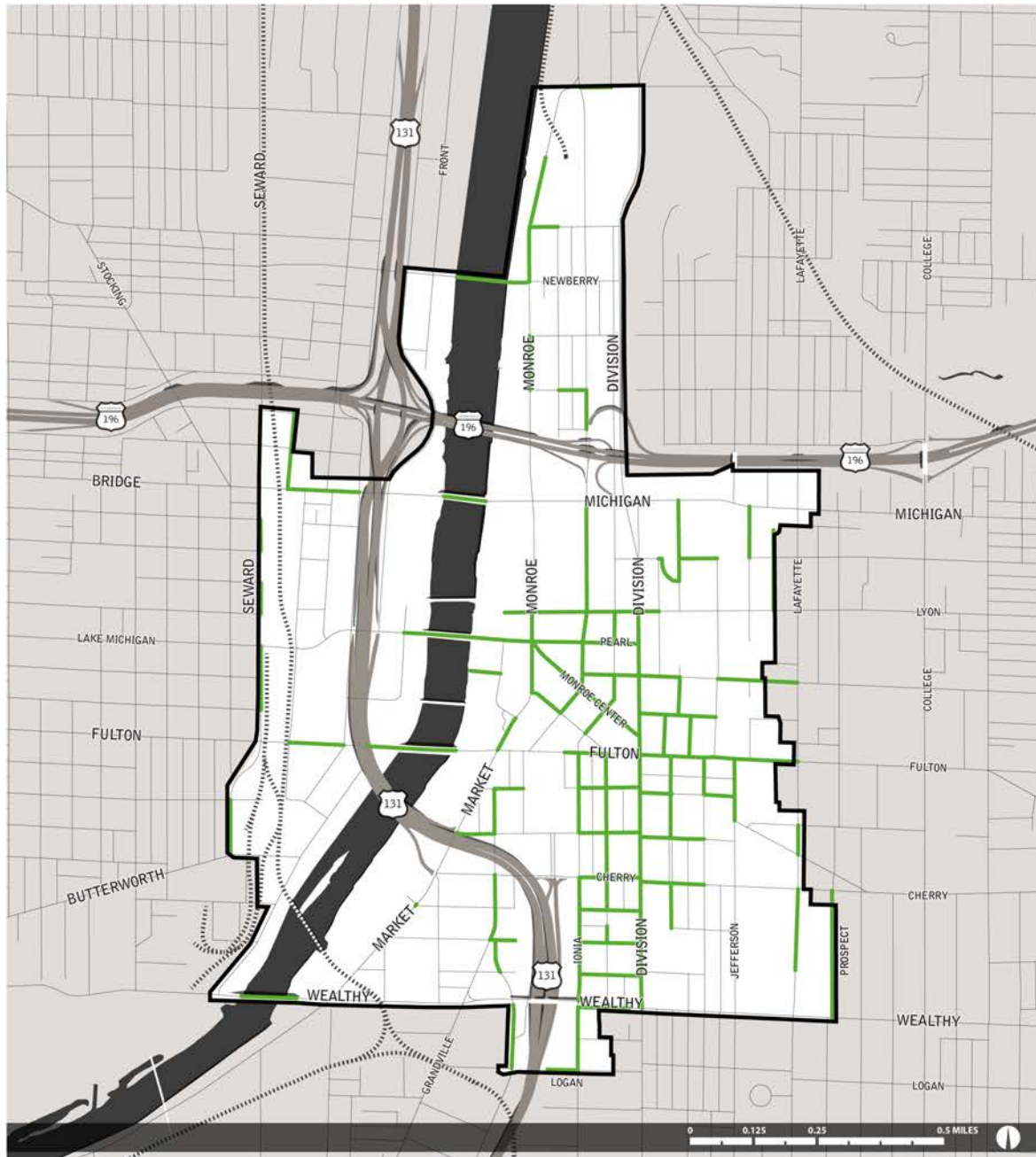
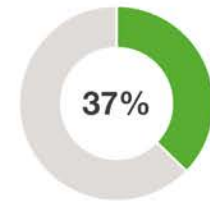
## ACTIVE STREET FRONTAGE

INTERFACE - STUDIO FIELD SURVEY

STREET SEGMENTS DOWNTOWN:

**493** TOTAL

**180** ACTIVE

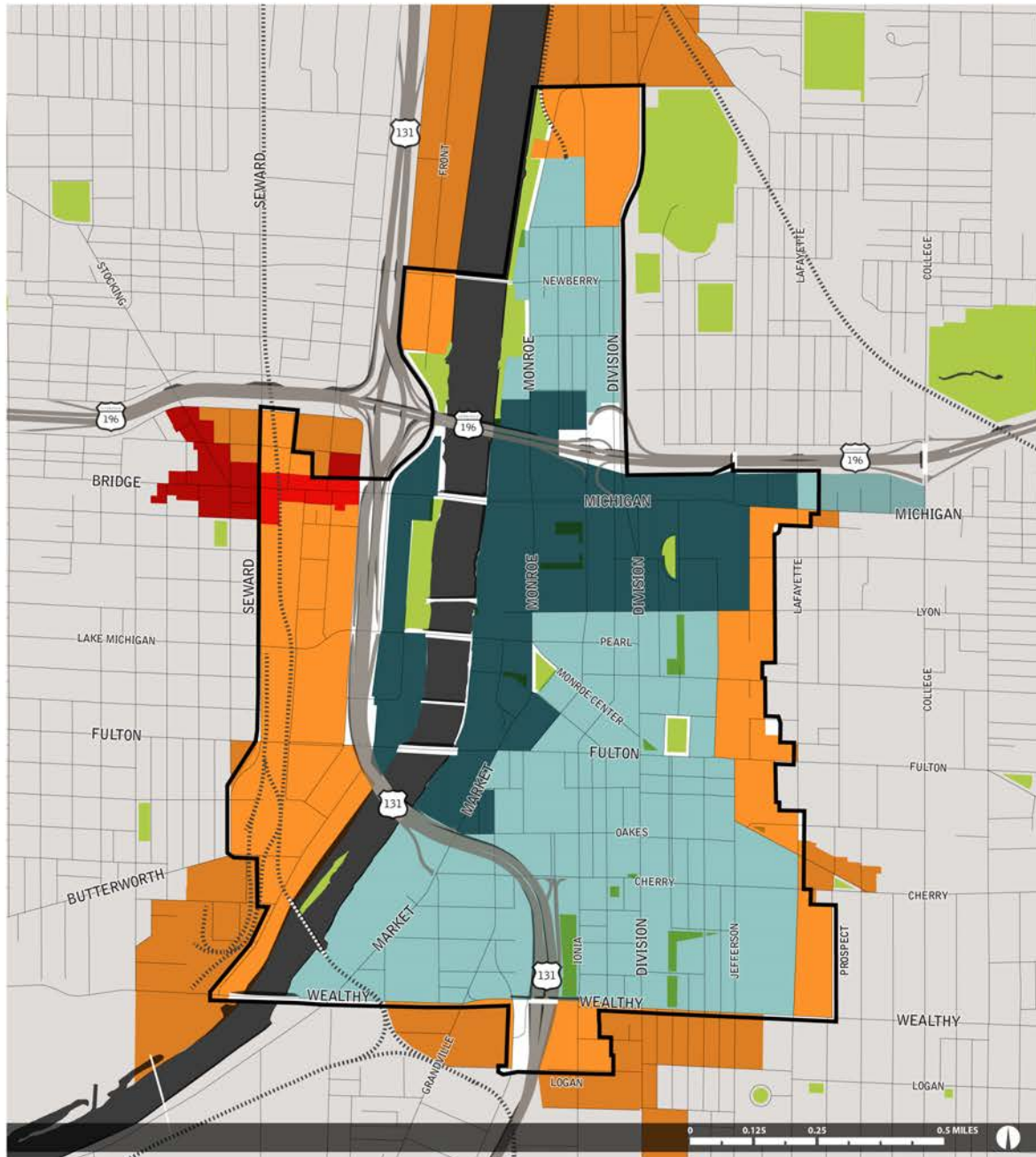


— ACTIVE STREET FRONTAGE

FIG A2.23: Street segments with active frontage

# ALLOWABLE BUILDING HEIGHTS

CITY OF GRAND RAPIDS



- DOWNTOWN HEIGHT OVERLAY (B)**  
 MIN: 3 STORIES  
 MAX: NONE
  
- DOWNTOWN HEIGHT OVERLAY (A)**  
 MIN: 3 STORIES  
 MAX: 85'  
 WITH BONUS: ADD LESSER OF 7 STORIES OR 90'
  
- TRANSITIONAL CITY CENTER**  
 MIN: 2 STORIES  
 MAX: 3 STORIES  
 WITH BONUS: 5 STORIES
  
- TRADITIONAL BUSINESS AREA**  
 MIN: 2 STORIES  
 MAX: 3 STORIES  
 WITH BONUS: 4 STORIES

FIG A2.24: Zoning height restrictions map

# FORECLOSURE RATES: 2004 - 1012

DOWNTOWN + SURROUNDING NEIGHBORHOODS

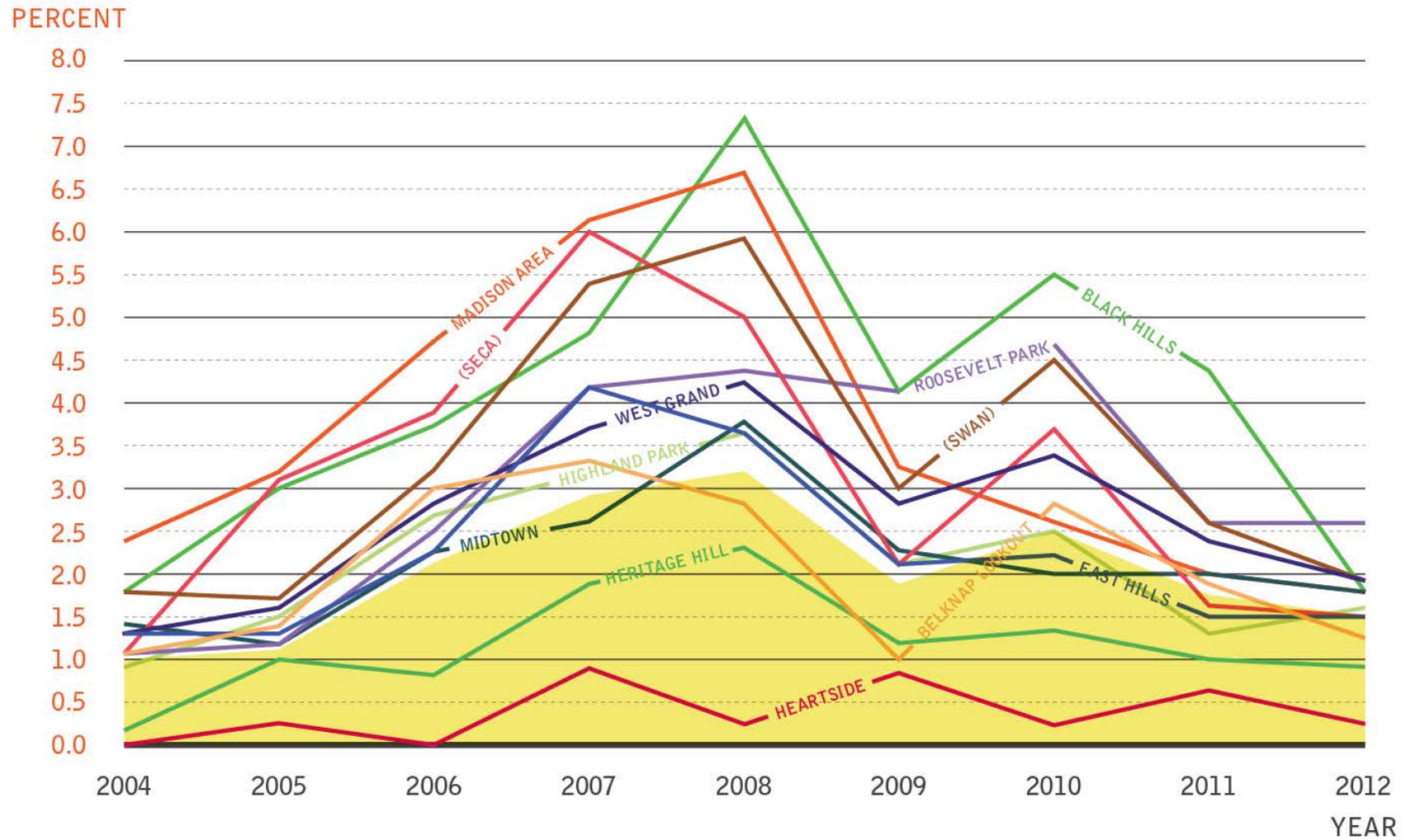


FIG A2.25: 2004 - 2012 Foreclosure rates

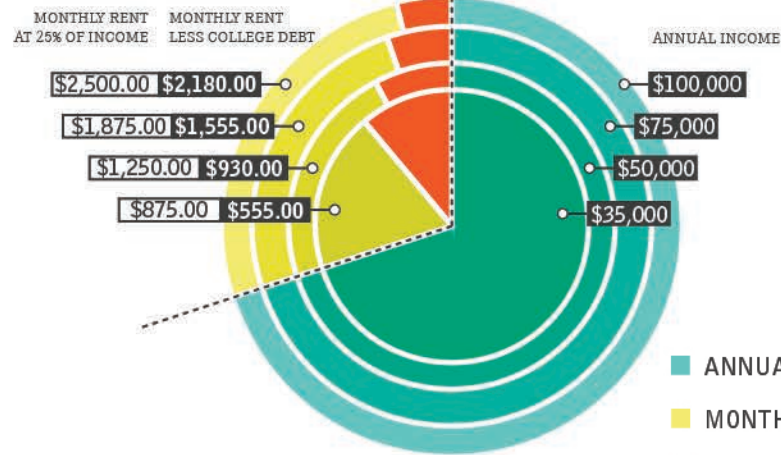
# HOUSING FOR MILLENIALS

## UNDERGRADUATE COLLEGE DEBT IN MICHIGAN

COLLEGE	AVERAGE DEBT
Ferris State	\$36,930
Western Michigan	\$30,867
GVSU	\$28,728
MSU	\$24,987
UMICH	\$27,815
Michigan Average	\$28,840

**62%**  
OF STUDENTS HAVE DEBT

### MONTHLY RENT AT 30% OF INCOME



### MONTHLY RENT AT 25% OF INCOME

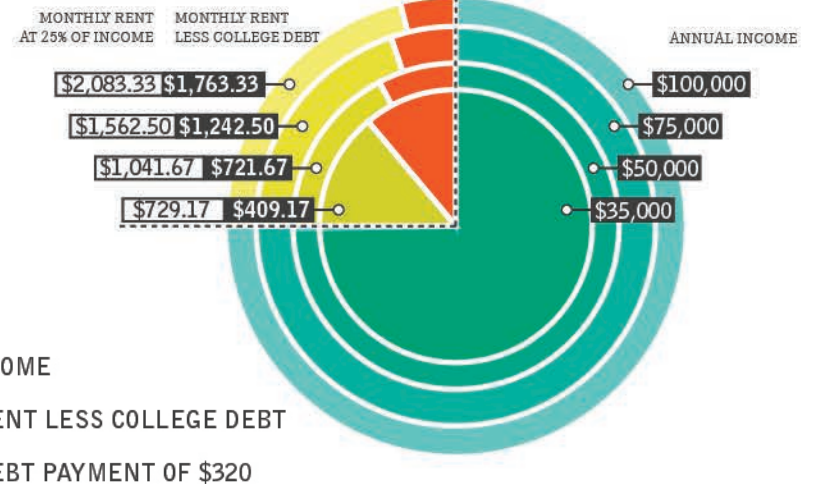


FIG A2.26: Housing affordability for Millennials

# HOW DOWNTOWN GRAND RAPIDS COMPARES

## RETAIL DENSITY

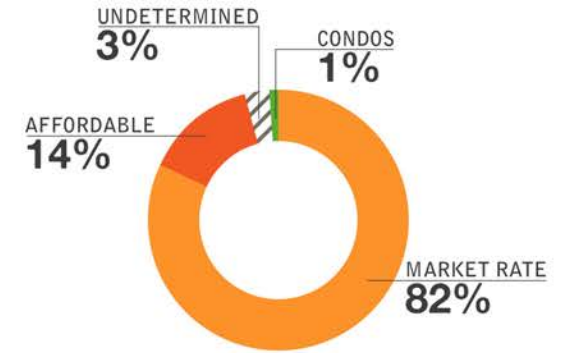
DRAFT - SUBJECT TO CHANGE

ESTIMATED RESIDENTS	10,000	13,000	20,000	15,000
PER 1,000 DOWNTOWN RESIDENTS	GRAND RAPIDS	CINCINNATI	INDIANAPOLIS	MILWAUKEE
RETAIL (SOFT GOODS)	3.1	7.1	7.3	5.5
FOOD PRODUCTS / SPECIALTY FOOD	1.4	2.9	0.8	1.4
WELLNESS (HEALTH CLUBS / YOGA)	0.8	2.3	0.9	3.2
BIKE SHOPS	0.1	0.0	0.1	0.2
FULL SERVICE RESTAURANTS	6.0	14.2	11.8	16.5
ENTERTAINMENT VENUES	1.2	1.9	2.1	3.8
COFFEE HOUSES / LOCATIONS	1.5	4.5	2.6	3.7

FIG A2.27: Downtown Grand Rapids retail density compared to peer cities



## UNIT BREAKDOWN



MARKET RATE RENTALS:  
**1,029 UNITS**

AFFORDABLE RENTALS:  
**180 UNITS**

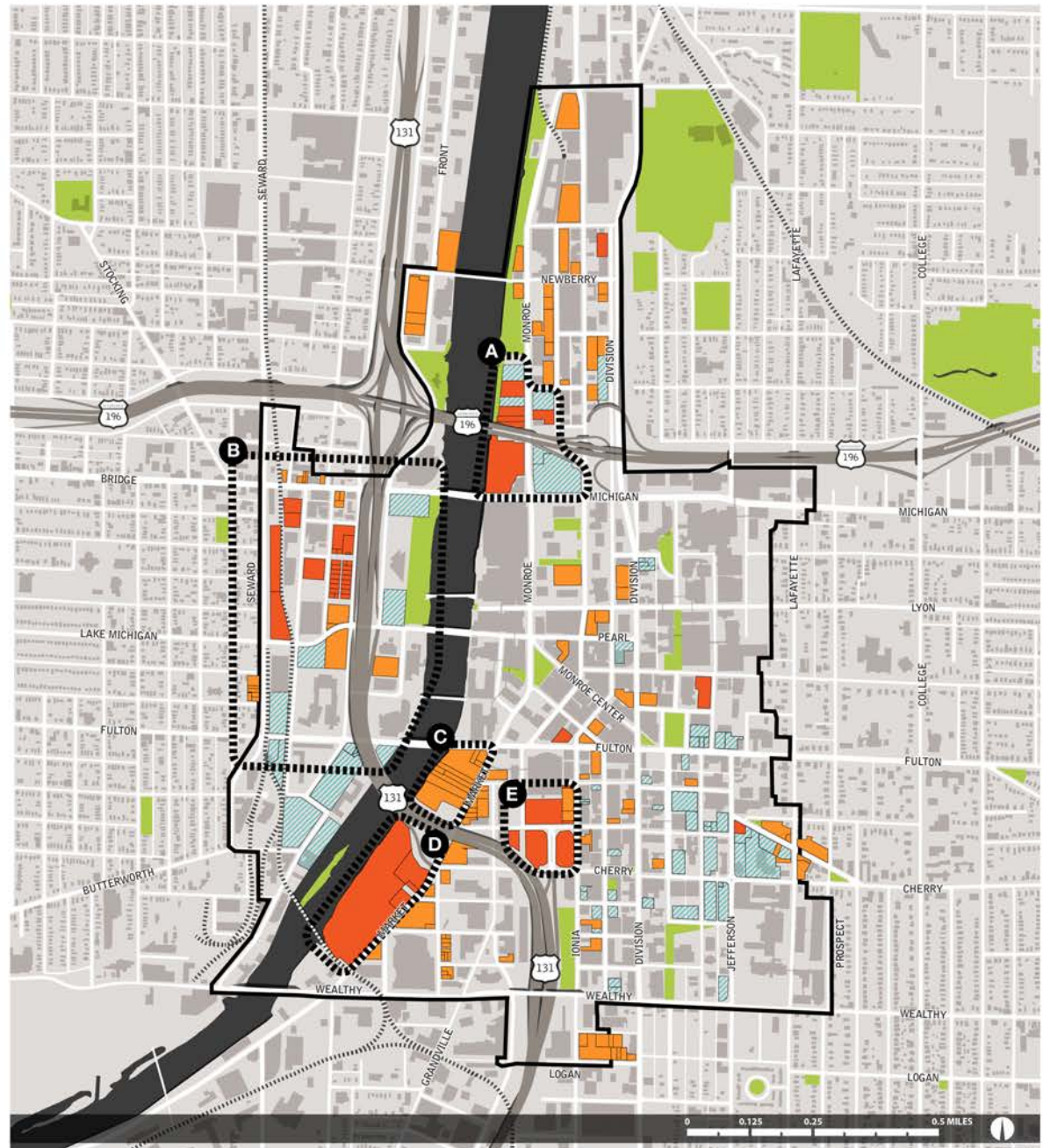
UNDETERMINED:  
**34 UNITS**

CONDOS:  
**8 UNITS**

TOTAL PROPOSED HOUSING:  
**1,251 UNITS**

- AFFORDABLE RESIDENTIAL
- MARKET RATE RESIDENTIAL
- MIXED RESIDENTIAL

FIG A2.28: Previously proposed housing developments



# POTENTIAL DEVELOPMENT

**BREAKDOWN**

**A. MSU / CITY / KENT COUNTY**

OWNERSHIP: City of Grand Rapids, Michigan State University, USPS, Kent County

BUILDING CHARACTER: Mid-rise to High-rise Buildings

APPROX. NEW RESIDENTIAL UNITS: **0 - 500 units**

**B. WEST SIDE**

OWNERSHIP: GVSU, DDA, City of Grand Rapids, Various Private Ownership

BUILDING CHARACTER: Townhouse, Mid-rise Buildings

APPROX. NEW RESIDENTIAL UNITS: **500-1,500 units**

**C. FULTON + MARKET**

OWNERSHIP: Amway

BUILDING CHARACTER: High-rise Buildings

APPROX. NEW RESIDENTIAL UNITS: **250-500 units**

**D. 201 MARKET**

OWNERSHIP: City of Grand Rapids

BUILDING CHARACTER: Mid-rise to High-rise Buildings

APPROX. NEW RESIDENTIAL UNITS: **500-1,000 units**

**E. ARENA SOUTH**

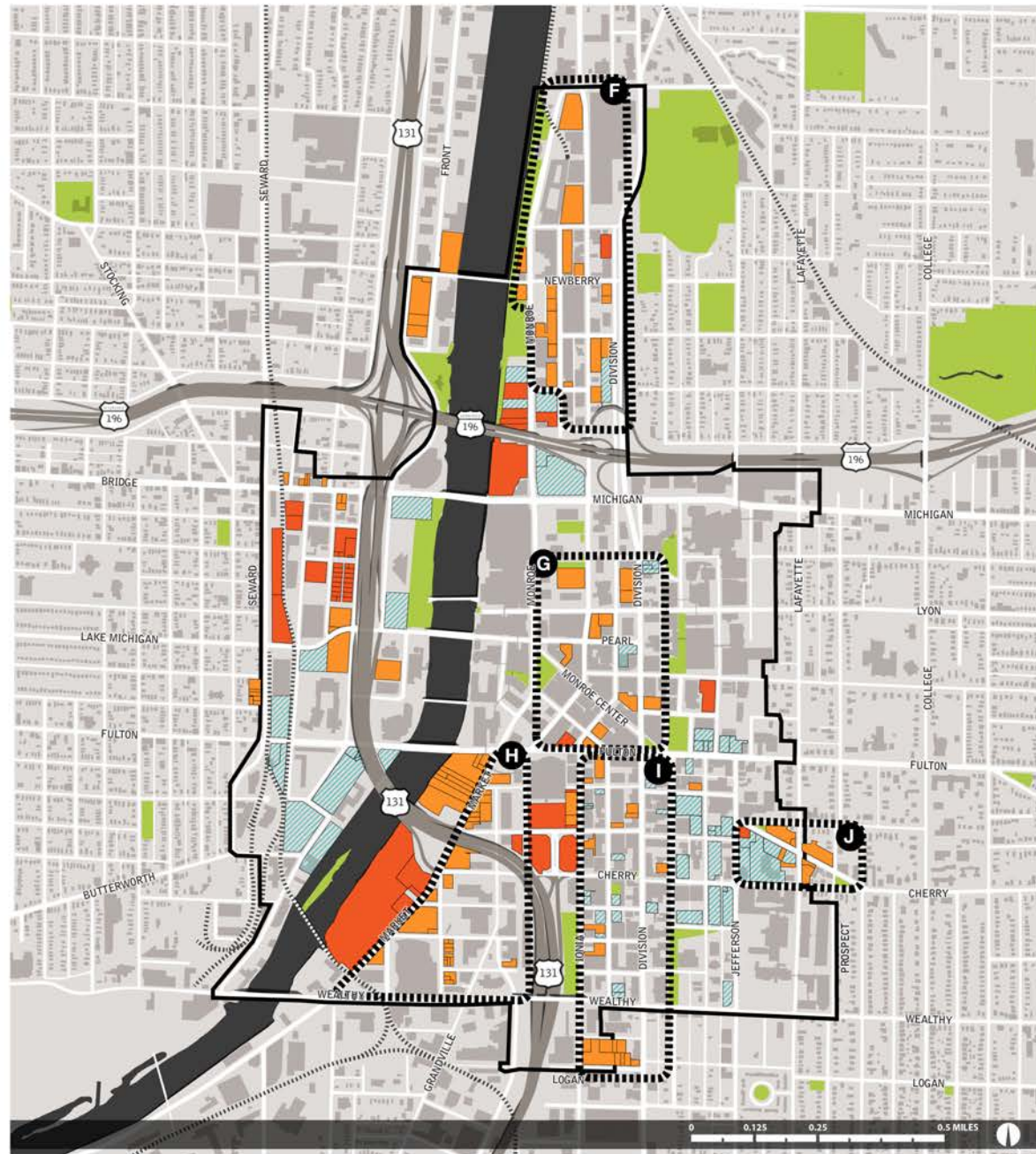
OWNERSHIP: DDA, Rockford Construction

BUILDING CHARACTER: Mid-rise to High-rise Buildings

APPROX. NEW RESIDENTIAL UNITS: **1,000 units**

- PUBLIC OWNERSHIP
- PRIVATE OWNERSHIP
- INSTITUTIONAL

FIG A2.29: Potential development opportunity sites [A]



## POTENTIAL DEVELOPMENT

### BREAKDOWN

#### F. MONROE NORTH

OWNERSHIP: Various Private Ownership, Michigan State, City of GR

BUILDING CHARACTER: Townhomes, Mid-rise Buildings

APPROX. NEW RESIDENTIAL UNITS: **± 1,000 units**

#### G. MONROE CENTER

OWNERSHIP: Ellis Parking, City of GR, Van Andel Institute, Kent County, Ferris State University

BUILDING CHARACTER: Mid-rise, High-rise Buildings

APPROX. NEW RESIDENTIAL UNITS: **± 1,000 units**

#### H. MARKET STREET SOUTH

OWNERSHIP: Various Private Ownership

BUILDING CHARACTER: Mid-rise Buildings

APPROX. NEW RESIDENTIAL UNITS: **± 1,000 units**

#### I. HEARTSIDE

OWNERSHIP: Various Private Ownership, Various Institutional Ownership

BUILDING CHARACTER: Mid-rise Buildings

APPROX. NEW RESIDENTIAL UNITS: **± 750 units**

#### J. STATE STREET

OWNERSHIP: Trinity Health, City of GR, Various Private Ownership

BUILDING CHARACTER: Townhomes, Low-rise Buildings

APPROX. NEW RESIDENTIAL UNITS: **± 250 units**

 PUBLIC OWNERSHIP

 PRIVATE OWNERSHIP

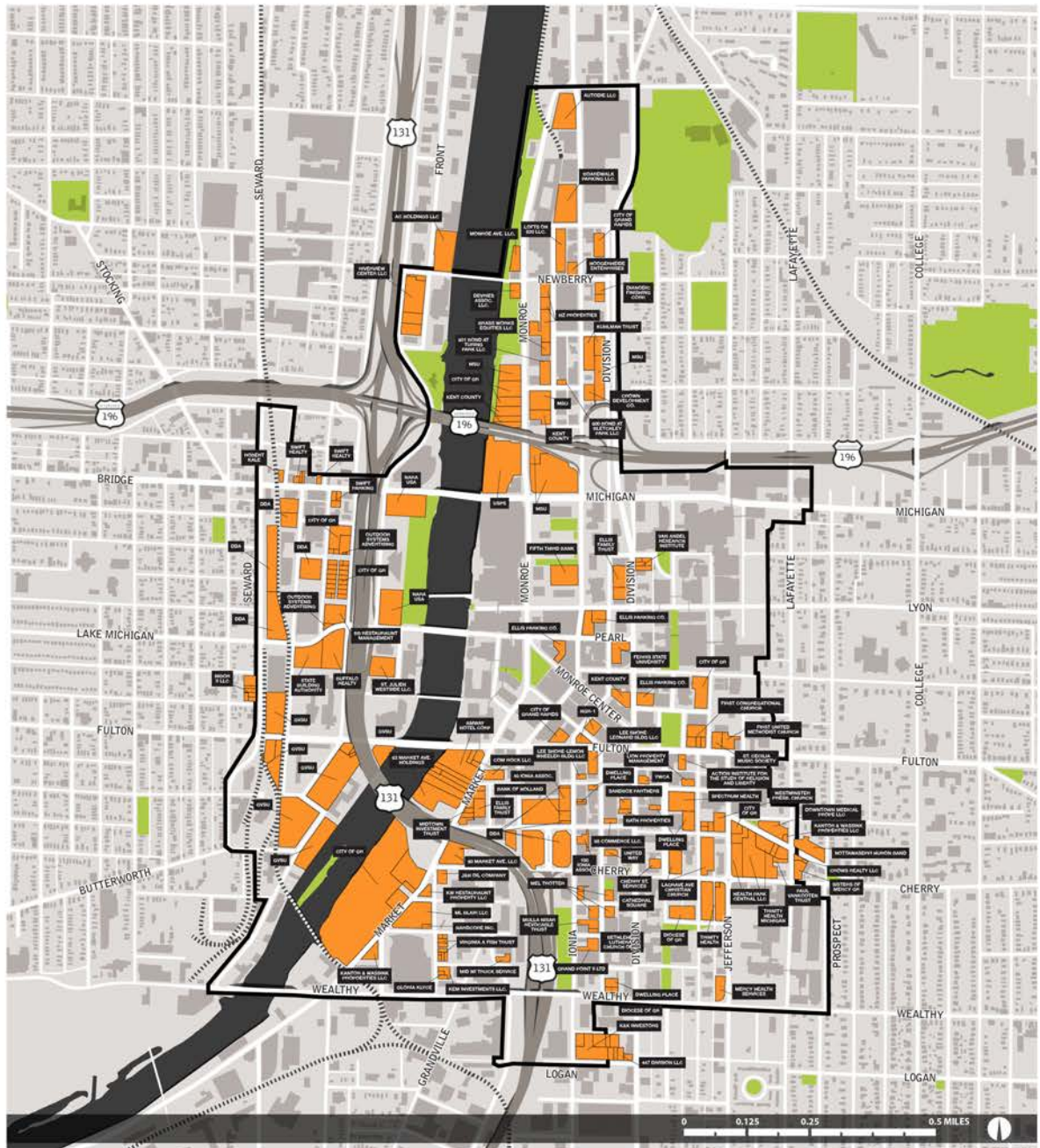
 INSTITUTIONAL

FIG A2.30: Potential development opportunity sites [B]



# POTENTIAL DEVELOPMENT

SITES + OWNERSHIP



 POTENTIAL DEVELOPMENT SITES

FIG A2.31: Current ownership of potential development opportunity sites

	Use Category	Specific Use	CC	TREC	TACC	
<b>RESIDENTIAL</b>	Household Living	Dwellings				
			Ground floor	P	X	-
			Above ground floor	P	P	-
		Household Living	P	X	-	
	Lodging, Extended Stay	P	X	-		
	Manufactured Housing Community	X	X	-		
Group Living	Group Living (including residential care)	P	X	-		
Ancillary Uses	Accessory Dwelling Unit	P	X	-		
	Accessory Structure	X	X	-		
	Home Occupation	P	X	-		
Educational Uses	All Educational Uses, Including Residential & Accessory Facilities	P	X	-		
Government and Institutional	Adult Day Care Center	P	X	-		
	Amphitheatre, Outdoor	S	X	-		
	Cemetery	X	X	-		
	Child Care Center	P	X	-		
	Community Center	P	X	-		
	Community Garden	P	X	-		
	Government & Institutional Uses					
		Ground floor	P	X	-	
		Above ground floor	P	X	-	
	Hospital, Clinic, Medical Center, Rehabilitation Center, Administrative Offices	P	X	-		
	Library	P	X	-		
	Park, Playground, Plaza, Square, Urban Open Space, Walkway	P	P	-		
	Religious Institution	P	X	-		
	Social Service Facility					
		Ground floor	P	X	-	
		Above ground floor	P	X	-	
	Auto-Oriented	Automobile Rental, Short-Term	S	X	-	
		Auto Supply/Accessory Sales (new)	X	X	-	
Auto Supply/Accessory Sales (used)		X	X	-		
Car Wash		X	X	-		
Drive-In or Drive-Through Facility		S	X	-		
Vehicle Service or Repair		S	X	-		
Vehicle Fuel Station (without vehicle repair, may include 1,000 sq. ft. convenience-Store)		S	X	-		
Vehicle Towing and Storage (including auto, RV, boat) - Indoor and Outdoor		S	X	-		
Vehicle Sale/ Lease (including auto, RV, boat) - Indoor and Outdoor						
		Please see Section 5.9.35.F, State Licenses				

**FIG A2.32:** Proposed use regulations for Center City [CC] and Targeted Retail and Entertainment Corridor [TREC] zoning, and proposed ground floor uses eligible for height bonuses on Targeted Active Commercial Corridors [TACC]. Uses in the CC column are existing regulations. Uses highlighted in red are recommended to be changed to X, "Not Permitted." Uses highlighted in yellow are recommended to be changed to S, "Special Land Use."

	Use Category	Specific Use	CC	TREC	TACC
<b>COMMERCIAL, OFFICE &amp; RETAIL</b>	Entertainment, Hospitality and Recreation	Alcohol Sales for On-Site Consumption (LCC Permit)	Please see Section 5.9.05, Alcohol Sales		
		Arcade, Amusement Devices, Gaming, Pool Hall	P	S	B
	Auditorium, Cinema, Concert Hall, Theater, Banquet Hall	P	S	B	
	Bar, Tavern, Taproom, Tasting Room	See Section 5.9.05, Alcohol Sales			
	Boat House, Marina	P	X	-	
	Bowling Alley, Skating Rink	P	P	B	
	Casino	S	X	-	
	Catering Business	P	X	-	
	Concession Sales	P/S	P/S	-	
	Convention Center	P	X	-	
	Dance Club, Night Club, Youth Club	S	S	B	
	Dance, Entertainment (LCC Permit), including After Hours (LCC Permit)	S	S	B	
	Entertainment, Live (except Regulated Uses)	P	P	B	
	Golf Course, Country Club	P	X	-	
	Health or Athletic Club, Sports Complex (e.g. tennis, swimming, golf, soccer)	P	X	-	
	Hookah Lounge, Cigar Lounge	S	S	-	
	Lodging, Short-Term (hotel, motel, bed & breakfast)	P	S	-	
	Outdoor Food Preparation and Cooking	S	S	-	
	Restaurant (except Regulated Uses) With Alcohol (beer, wine and/or liquor)	P/S	P/S	B	
	Restaurant (except Regulated Uses) Without Alcohol	P	P	B	
	24-Hour / After-hours Operations	P/S	S	-	
	Outdoor Seating	On Ground Level, abutting front façade and public right-of-way	P	P	-
		On Ground Level, not abutting front façade and public right-of-way; or located above ground level	S	S	-
	Social or Service Club	P	X	-	
	Sports and Entertainment Arena	S	X	-	
	Studio for Aerobics, Dance, Yoga, Martial Arts, Music Instruction	P	X	B	

P = Permitted; S = Special Land Use; E = Existing; X = Not Permitted; - = Not Applicable; B = Height Bonus

Use Category	Specific Use	CC	TREC	TACC		
Office	Bank, Credit Union	Ground Floor	P	X	-	
		Above Ground Floor	P	-	-	
	Film Production, Photography, Radio, TV Studio	Ground Floor	P	X	-	
		Above Ground Floor	P	-	-	
	General or Professional Uses	Ground Floor	P	X	-	
		Above Ground Floor	P	-	-	
	Live/Work Unit	P	X	-		
	Medical or Dental Uses	Ground Floor	P	X	-	
		Above Ground Floor	P	-	-	
	Medical Laboratory Collection	P	X	-		
	Copying, Mailing, Courier Services, Parcel Receiving, Shipping Station	P	X	B		
	Research Institution, Medical Laboratory Processing	P	X	-		
Personal Services	Animal Day Care (w/o boarding)	S	X	-		
	Barber Shop, Beauty Salon, Nail Salon, Tanning Salon, Day Spa	P	X	B		
	Funeral Home, Mortuary	P	X	-		
	Kennel (w/ boarding and/or grooming)	X	X	-		
	Massage, Licensed Therapeutic	P	X	-		
	Photo Finishing Service	P	X	B		
	Shoe Repair, Shoeshine Parlor	P	X	B		
	Tailor, Dry Cleaning Drop/Pick Up Station, Coin Operated Laundry	P	X	B		
	Tattoo Shop, Piercing Service	P	X	B		
	Veterinary Clinic or Hospital (with or w/o boarding)	S	X	-		
	Retail Sales	Retail Sales, Single Tenant on Ground Floor (except as noted below)	14,999 sq ft or less GFA	P	P	B
			15,000 - 24,999 sq ft GFA	P	P	B
25,000 sq ft or more GFA			S	P	B	
Retail Sales, Upper Level, Any Size (except as noted below)		P	P	-		
Alcohol Sales for Off-Site Consumption (including Package Good Store - LCC Permit)		Please see Section 5.9.05. Alcohol Sales				
Antique, Second - Hand Store (except pawn shop)		P	P	B		
Art Studio, Gallery		P	P	B		
Cash Advance		S	X	-		

COMMERCIAL, OFFICE & RETAIL

Use Category	Specific Use	CC	TREC	TACC	
Retail Sales	Fire Arms Sales	25,000 sq ft or less GFA	S	X	-
		More than 25,000 sq ft GFA	P	X	-
	Outdoor Activities (display/sales of products, not including vehicles or food)	P	P	-	
	Pawn Broker, Pawnshop	S	X	-	
	24-Hour / After-hours Operations	P/S	S	-	
Industrial	Assembly, Manufacturing, or Production of food, textile products, technology, wood products, furniture and fixtures, paper, clay, glass or fabricated metal	X	X	-	
	Commercial Laundry, Dry Cleaning Processing	X	X	-	
	Contractor, Building (e.g. plumbing, heating, electrical)	P	X	-	
	Landscaping, Nursery Services	X	X	-	
	Materials Recovery and Recycling	X	X	-	
	Commercial Production of Alcohol, Baked Goods or Similar Products, less than 15,000 sf	P	S	-	
	Over 15,000	S	S	-	
	Printing, Publishing and Allied Industries	X	X	-	
	Self-Storage Facility	P	X	-	
	Stone Monument Works	X	X	-	
	Warehousing, Storage	X	X	-	
	Wholesaling Activities	X	X	-	
	Helistop (not to include Heliport)	S	X	-	
	Car-Share Lots	P	X	-	
Transportation	Inter-Modal Transportation Facility	P	X	-	
	Off-street Surface Parking, accessory and on same lot	P	X	-	
	Off-street Surface Parking, primary use on separate lot	S	X	-	
	Overhead Walkway	S	S	-	
	Parking Structure	P	X	-	
	Transit Center or Station	P	P	-	
	Transit Stop	P	P	-	
	Utilities	Electrical Substations and Private Utilities	P	X	-
Wireless Communication Facilities		Co-Located Antenna	P	P	-
		Freestanding Tower	X	X	-

COMMERCIAL, OFFICE & RETAIL

INDUSTRIAL, TRANSPORTATION & UTILITIES

P = Permitted; S = Special Land Use; E = Existing; X = Not Permitted; - = Not Applicable; B = Height Bonus

Walksheds showing Brooklyn (NY), Chicago (IL), Portland (OR), and Grand Rapids (MI). Visualized as figure ground with 1/2 mile walkshed (highlighted area).  
 Data Source: ArcGIS and US Census TIGER/Line Products

City	Coverage of 1/2 mile walkshed (sq mi)	Intersections in Walkshed
Brooklyn, NY	0.549807	400
Chicago, IL	0.470615	216
Portland, OR	0.49071	221
Grand Rapids, MI	0.505572	170



BROOKLYN, NY



CHICAGO, IL



PORTLAND, OR



GRAND RAPIDS, MI

FIG A2.33: Comparable city walksheds

# WALKABILITY

INTERFACE - STUDIO FIELD SURVEY

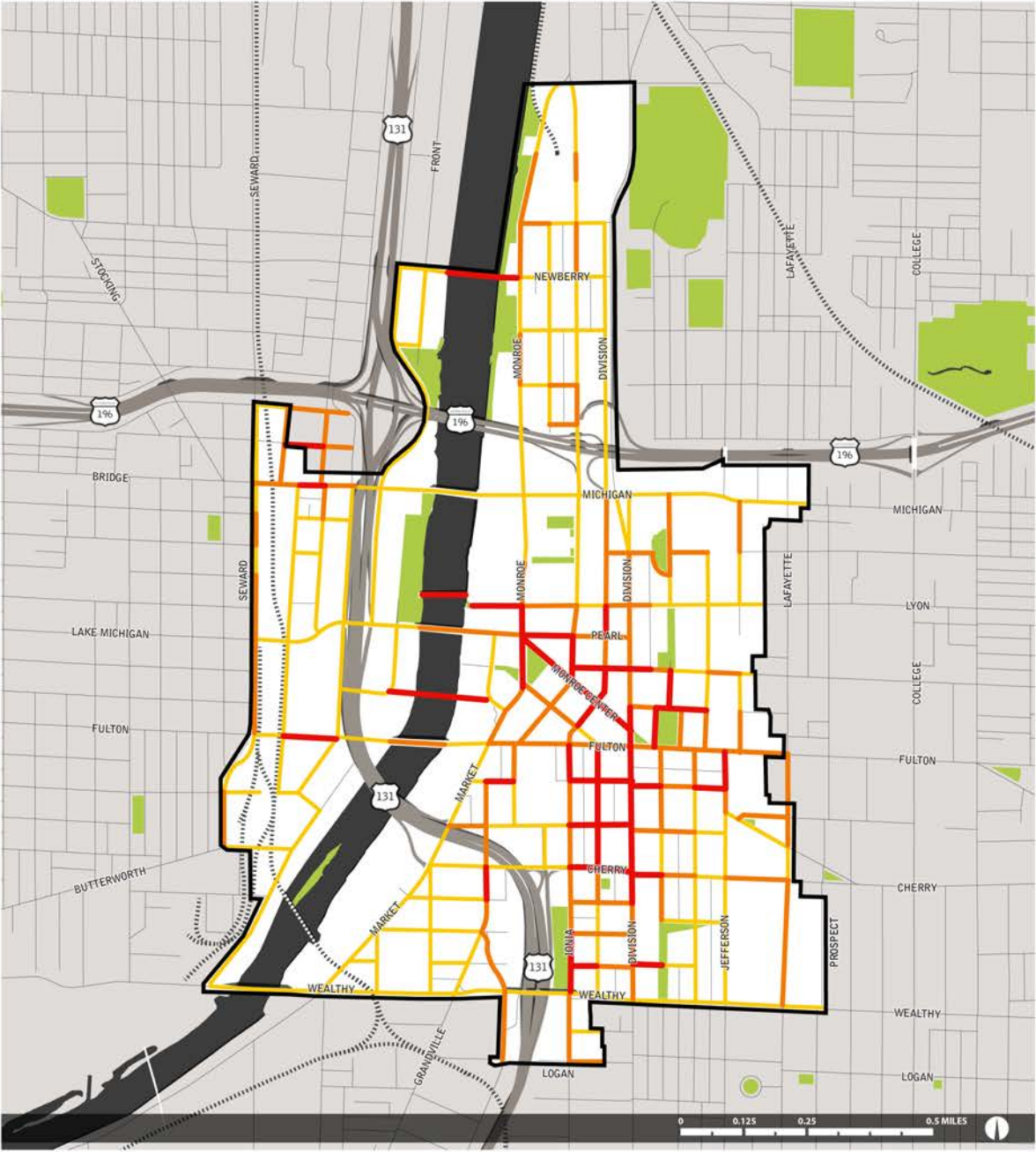
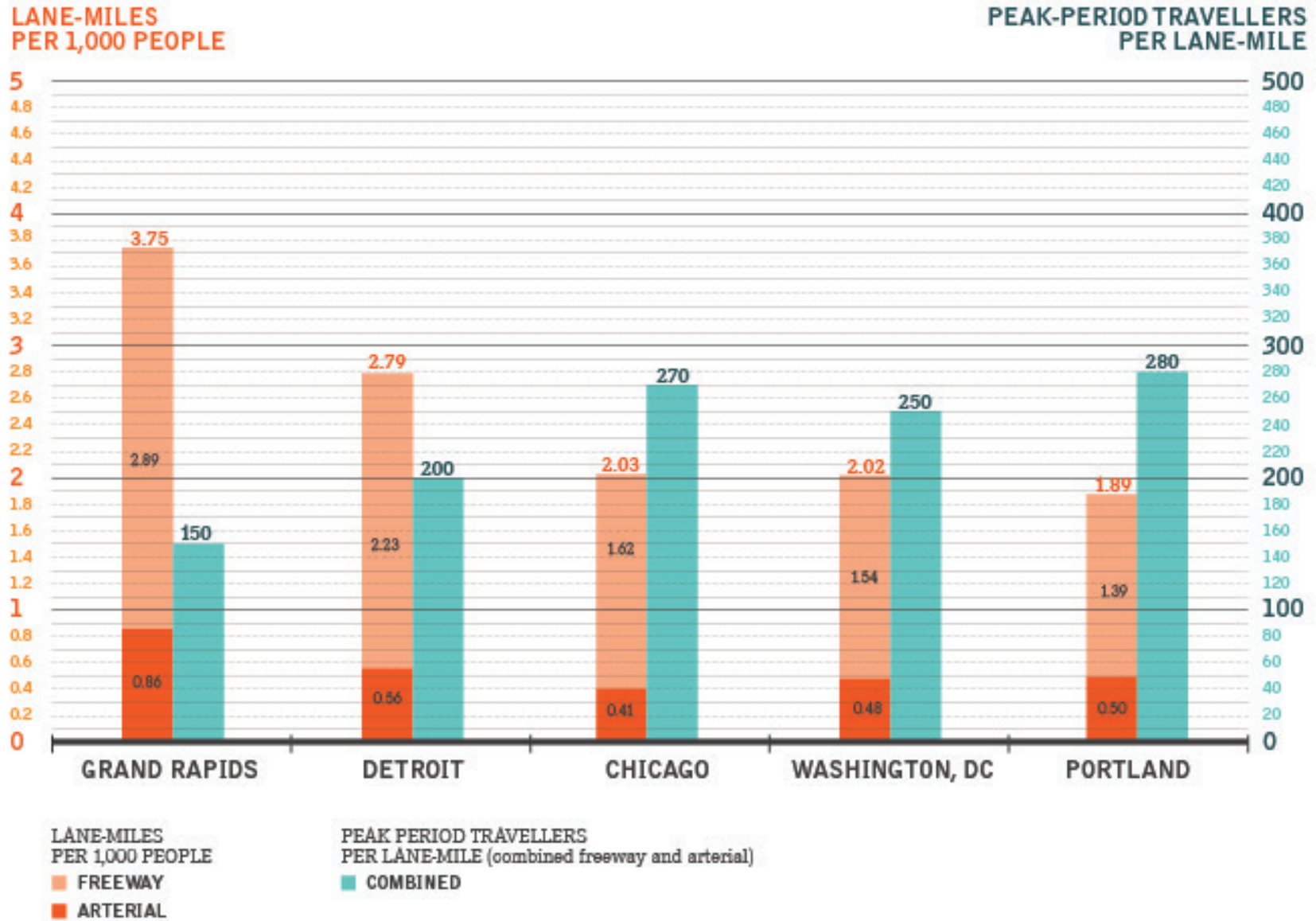


FIG A2.34: Walkability rating map

# REGIONAL ROAD CAPACITY + USAGE

2012 TEXAS TRANSPORTATION INSTITUTE  
URBAN MOBILITY REPORT



Measured by comparing lane miles per thousand people on Grand Rapids highways and major arterials, against peak-period travelers per lane mile. Data Source: 2012 Texas Transportation Institute, Urban Mobility Report.

FIG A2.35: Regional road capacity and usage

# GRAND RAPIDS MODE OF TRANSPORTATION SPLIT

\* 2012 ACS, \*\* 2006-2010 CTPP

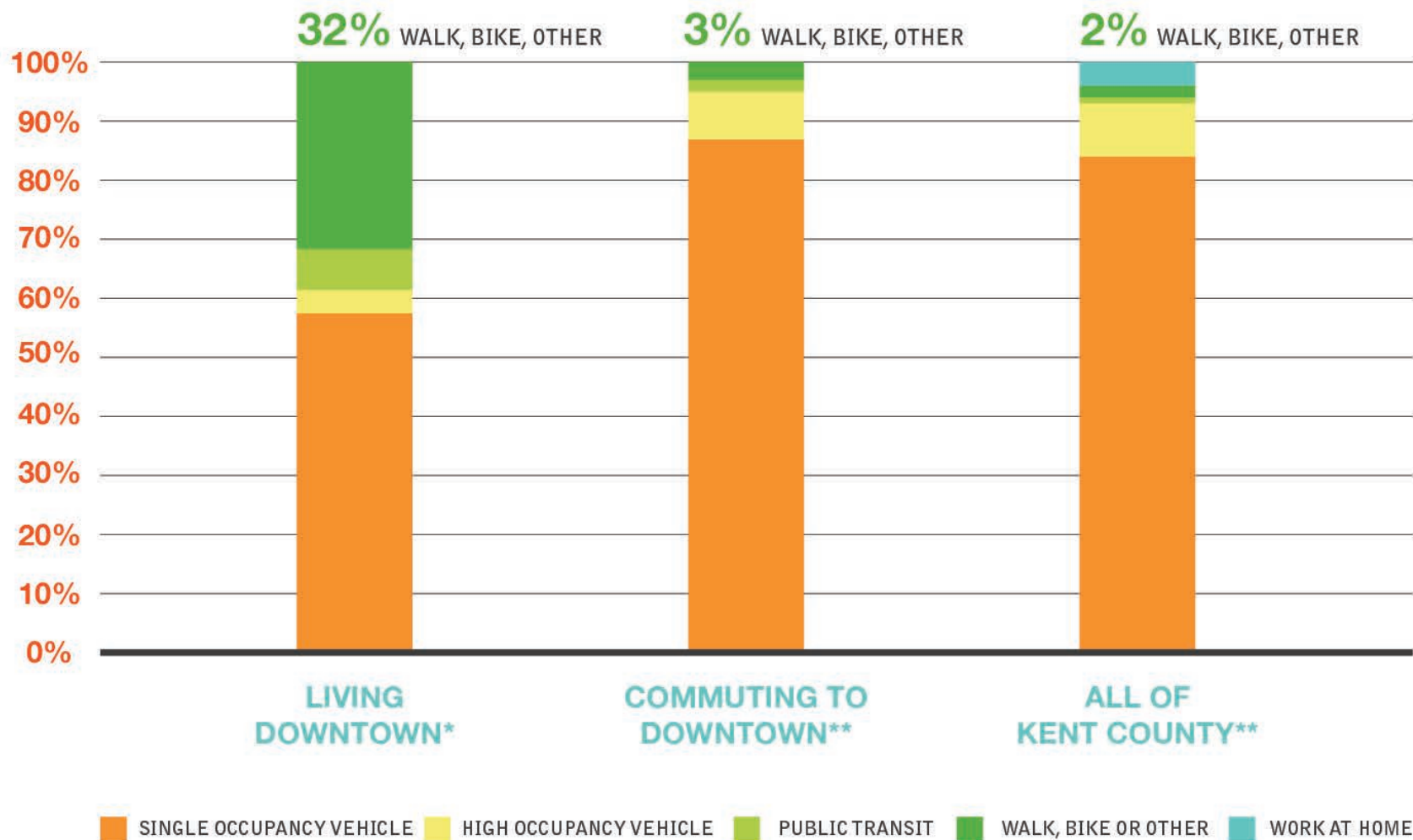
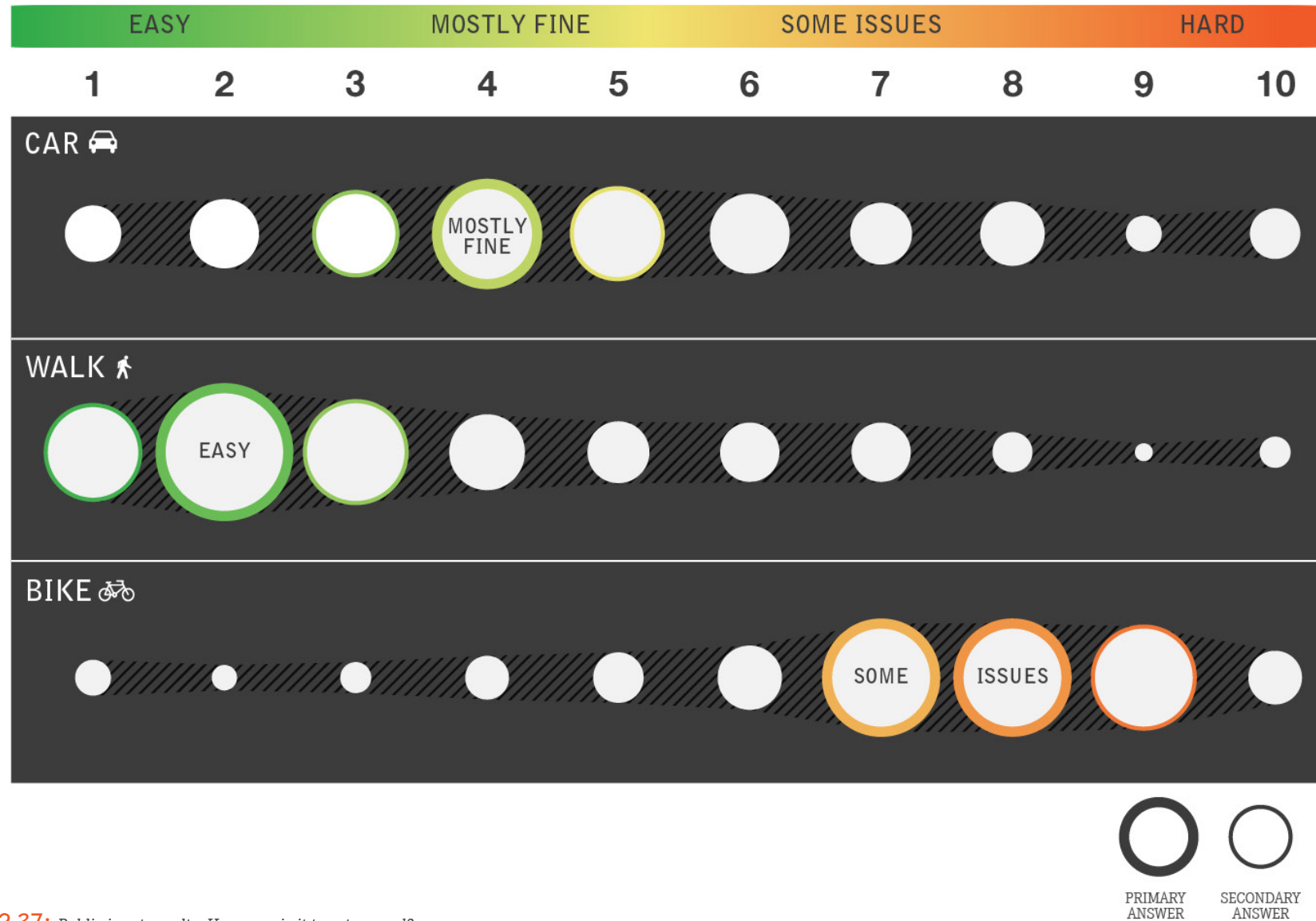


FIG A2.36: Grand Rapids mode of transportation split

Comparing Residents Living Downtown, Commuting to Downtown but living elsewhere, and all of Kent County.  
 Data Sources: US Census - American Community Survey 2012; Census Transportation Planning Package 2006 - 2010.

# How easy is it to get around?

OPEN HOUSE



**FIG A2.37:** Public input results: How easy is it to get around?  
 The public responded to the question, “How easy is it to get around?” on a scale of 1(easy) - 10(Hard) by each mode of transportation by placing stickers within the range shown above.



# ROAD DIETS

Existing Road Diets (City identified)

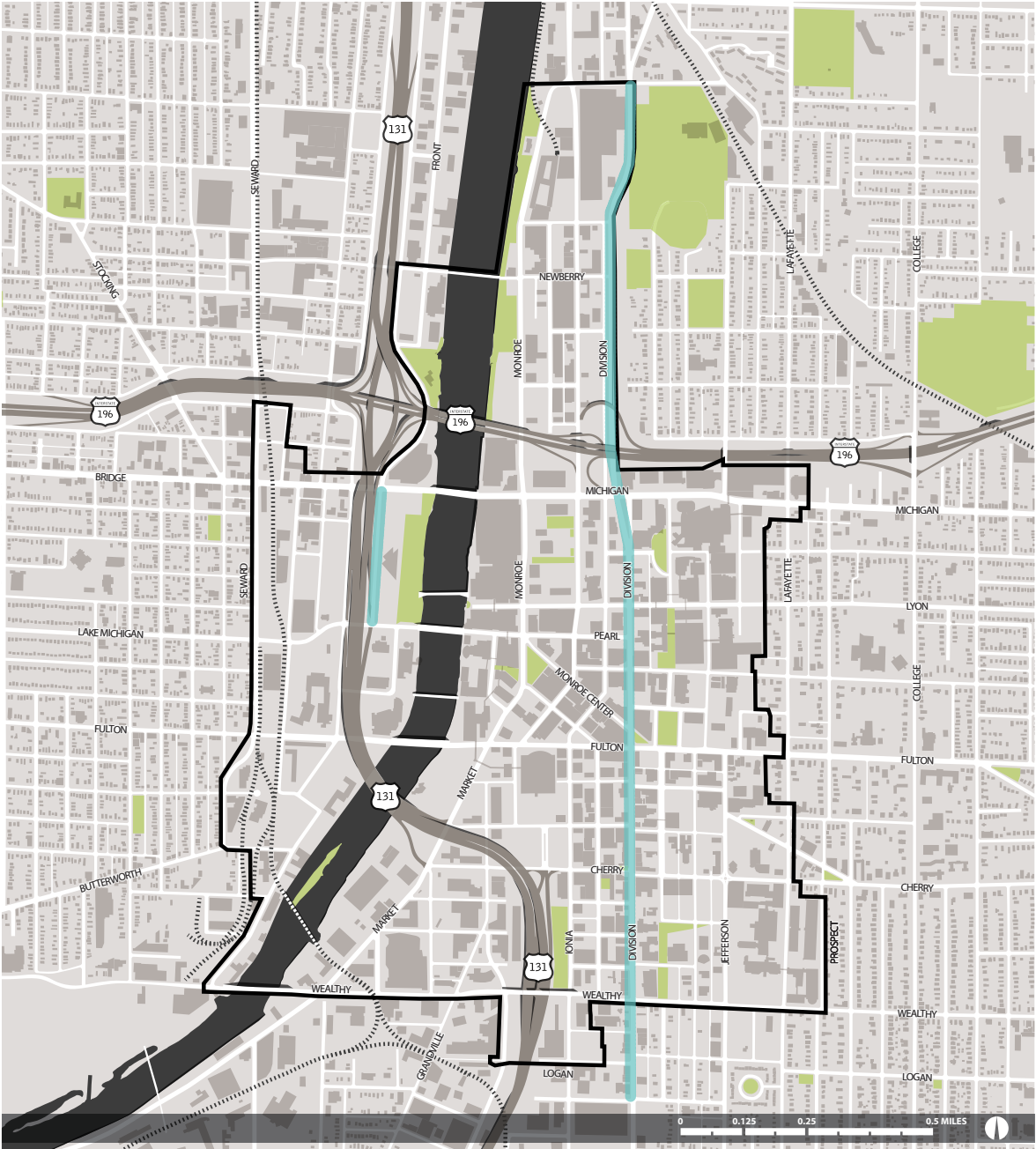
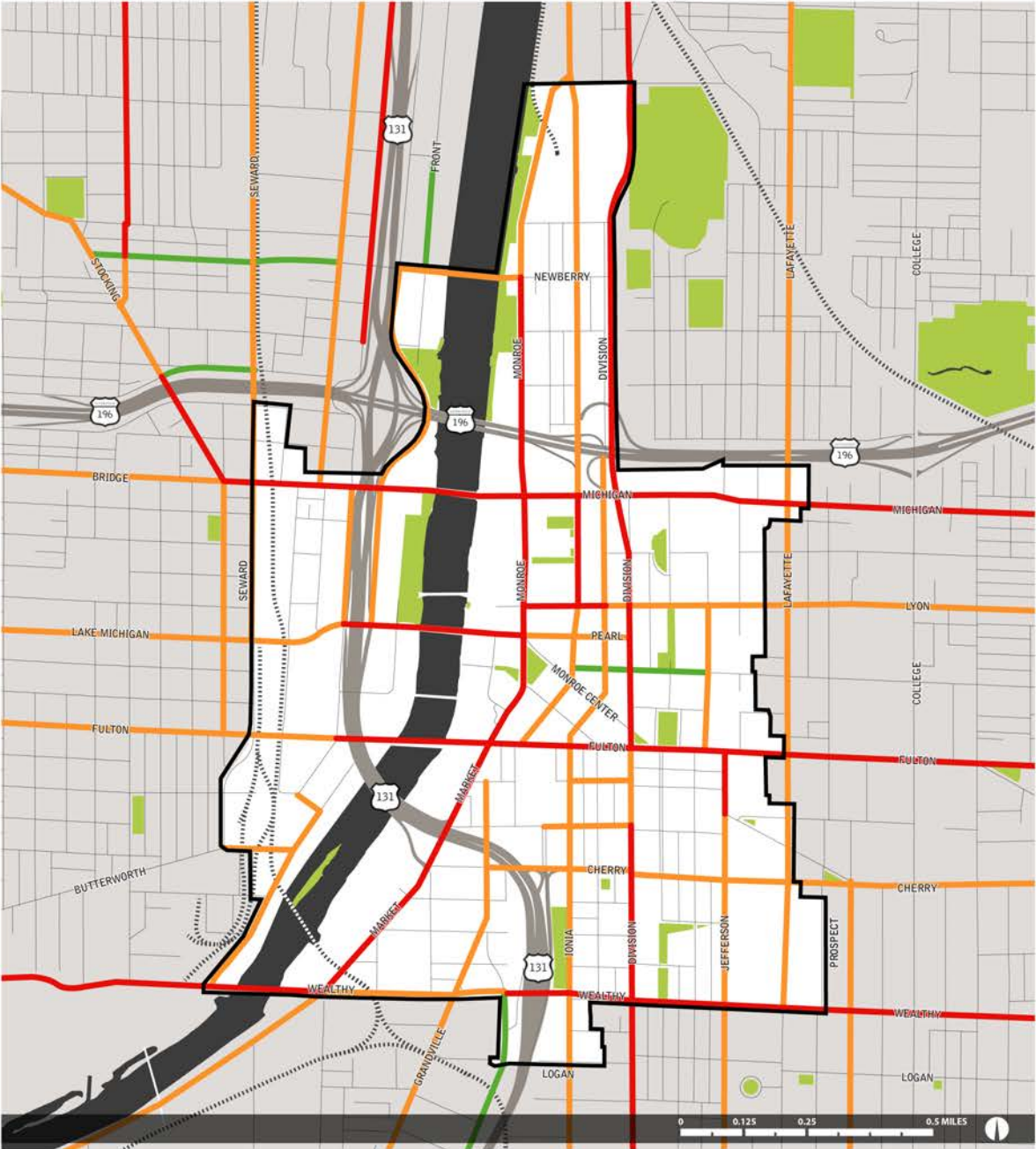


FIG A2.38: Grand Rapids existing road diets

# TRAFFIC VOLUME



- LIGHT (AADT under 2,500)
- MEDIUM (AADT 2,500 - 10,000)
- HEAVY (AADT Above 10,000)

FIG A2.39: Grand Rapids Downtown traffic volumes. Data Source: MDOT Traffic Volumes

# The Rapid

## FREQUENCIES

ROUTE	WEEKDAY	WEEKEND	WEEKDAY	WEEKEND	WEEKDAY	WEEKEND	WEEKDAY	WEEKEND
<b>1</b> DOWNTOWN	●	●	●	●	●	●	●	●
<b>2</b> KALAMAZOO	●	●	●	●	●	●	●	●
<b>3</b> MADISON	●	●	●	●	●	●	●	●
<b>4</b> EASTERN	●	●	●	●	●	●	●	●
<b>5</b> WEALTHY WOODLAND	●	●	●	●	●	●	●	●
<b>6</b> EASTTOWN WOODLAND	●	●	●	●	●	●	●	●
<b>7</b> WEST LEONARD	●	●	●	●	●	●	●	●
<b>8</b> GRANDVILLE RIVERTOWN CROSSINGS	●	●	●	●	●	●	●	●
<b>9</b> ALPINE	●	●	●	●	●	●	●	●
<b>10</b> CLYDE PARK	●	●	●	●	●	●	●	●
<b>11</b> PLAINFIELD	●	●	●	●	●	●	●	●
<b>12</b> WEST FULTON	●	●	●	●	●	●	●	●
<b>13</b> MICHIGAN FULLER - NORTH	●	●	●	●	●	●	●	●
<b>14</b> EAST FULTON	●	●	●	●	●	●	●	●
<b>15</b> EAST LEONARD	●	●	●	●	●	●	●	●
<b>16</b> WHISKEY METRO HEALTH VILLAGE	●	●	●	●	●	●	●	●
<b>17</b> WOODLAND AIRPORT	●	●	●	●	●	●	●	●
<b>18</b> WEST RICE	●	●	●	●	●	●	●	●
<b>19</b> MICHIGAN FULLER - SOUTH	●	●	●	●	●	●	●	●
<b>20</b> BURTON	●	●	●	●	●	●	●	●
<b>21</b> 28TH STREET	●	●	●	●	●	●	●	●
<b>22</b> OVSU NORTH CAMPUS EXPRESS	●	●	●	●	●	●	●	●
<b>23</b> 44TH STREET	●	●	●	●	●	●	●	●
<b>24</b> OVSU SOUTH CAMPUS EXPRESS	●	●	●	●	●	●	●	●
<b>25</b> OVSU COMMONS CONNECTOR	●	●	●	●	●	●	●	●
<b>26</b> OVSU CHS EXPRESS	●	●	●	●	●	●	●	●
<b>27</b> GROC SNEEDEN SHUTTLE	●	●	●	●	●	●	●	●

## LEGEND

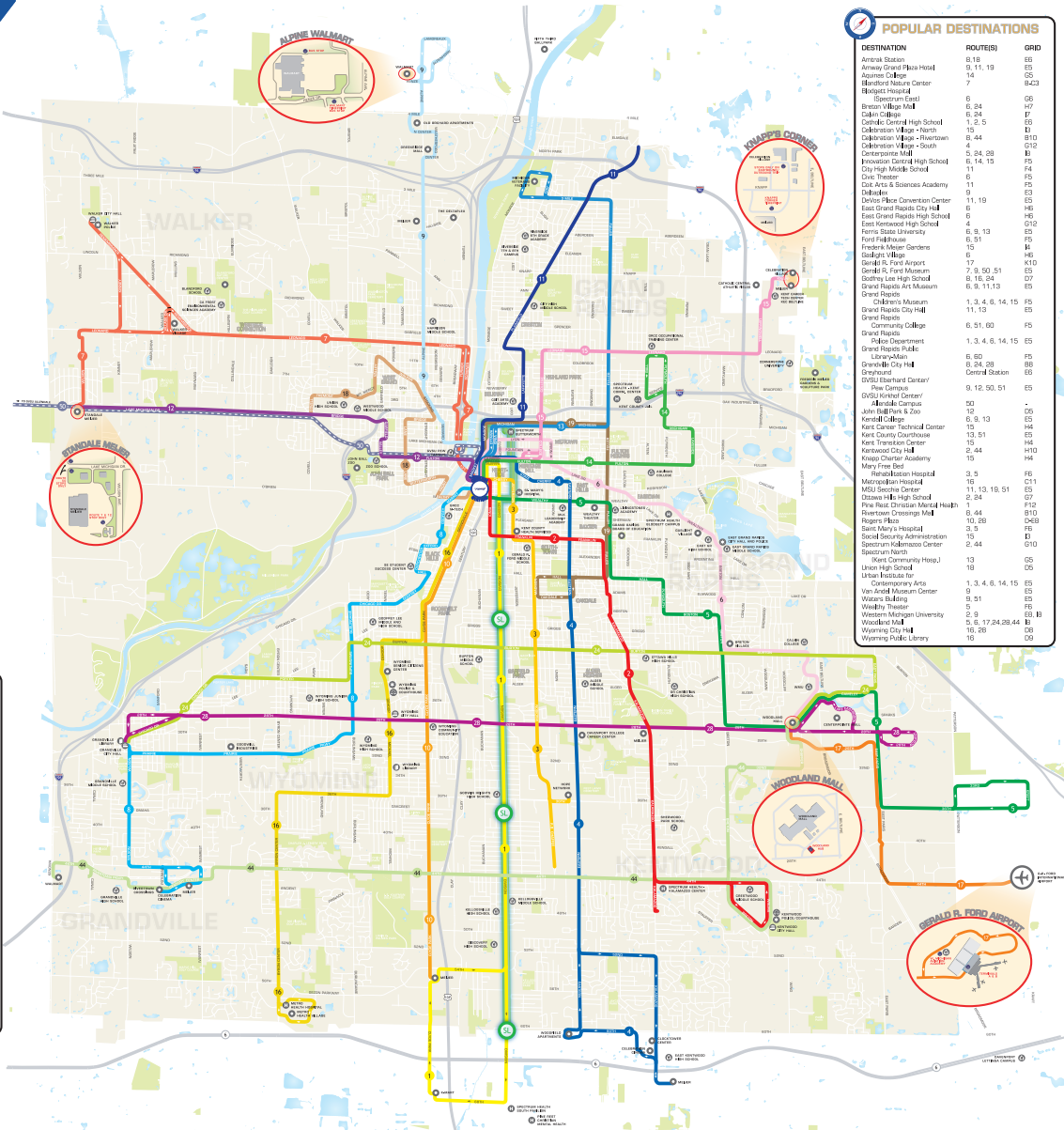
PLEASE SEE SCHEDULE FOR SPECIFIC ROUTE & FREQUENCY DETAILS

- 1** **WEEKDAYS**  
15-MINUTE SERVICE FROM CENTRAL STATION TO 28TH ST. BETWEEN 6AM AND 5PM  
**WEEKDAY EVENING & SUNDAYS**  
TWO-HOUR SERVICE ON 28TH ST. NO SERVICE SOUTH OF 28TH ST.
- 2** **WEEKDAYS**  
15-MINUTE SERVICE FROM CENTRAL STATION TO 28TH ST. BETWEEN 6:15AM - 8:55AM & 3:55PM - 6:30PM
- 3** **WEEKDAYS**  
15-MINUTE SERVICE FROM CENTRAL STATION TO 28TH ST. BETWEEN 6:15AM - 8:55AM & 3:55PM - 6:30PM  
**WEEKDAY EVENING, SATURDAYS & SUNDAYS**  
NO SERVICE SOUTH OF EASTPORT DR. TO GAMES TWP. MILLER
- 4** **WEEKDAYS**  
15-MINUTE SERVICE FROM CENTRAL STATION TO BRITTON WALKER MALL BETWEEN 6:15AM - 8:55AM & 3:55PM - 6:30PM  
**WEEKDAY EVENING, SATURDAYS & SUNDAYS**  
NO SERVICE SOUTH OF WOODLAND MALL BETWEEN 6:30AM - 3:15PM & 7PM - 11:15PM
- 5** **WEEKDAYS**  
15-MINUTE SERVICE FROM CENTRAL STATION TO GOODHILL BETWEEN 6:15AM - 8:55AM & 3:55PM - 6:30PM
- 6** **WEEKDAYS**  
15-MINUTE SERVICE FROM CENTRAL STATION TO GREENHEDGE MALL FROM 6:15AM - 8:55AM & 3:55PM - 6:30PM  
**WEEKDAY EVENING, SATURDAYS & SUNDAYS**  
NO SERVICE NORTH OF WALKMAN
- 7** **WEEKDAYS**  
SERVICE ONLY BETWEEN 6AM - 6:30PM & 6:30PM - 8:30PM

● POINT OF INTEREST    ● LIBRARY    ● LOCAL ROUTE  
 ● HOSPITAL    ● COURT    ● EXPRESS ROUTE  
 ● POLICE    ● CITY HALL  
 ● SCHOOL

0 1/2 1 2 MILES

# BUS ROUTES

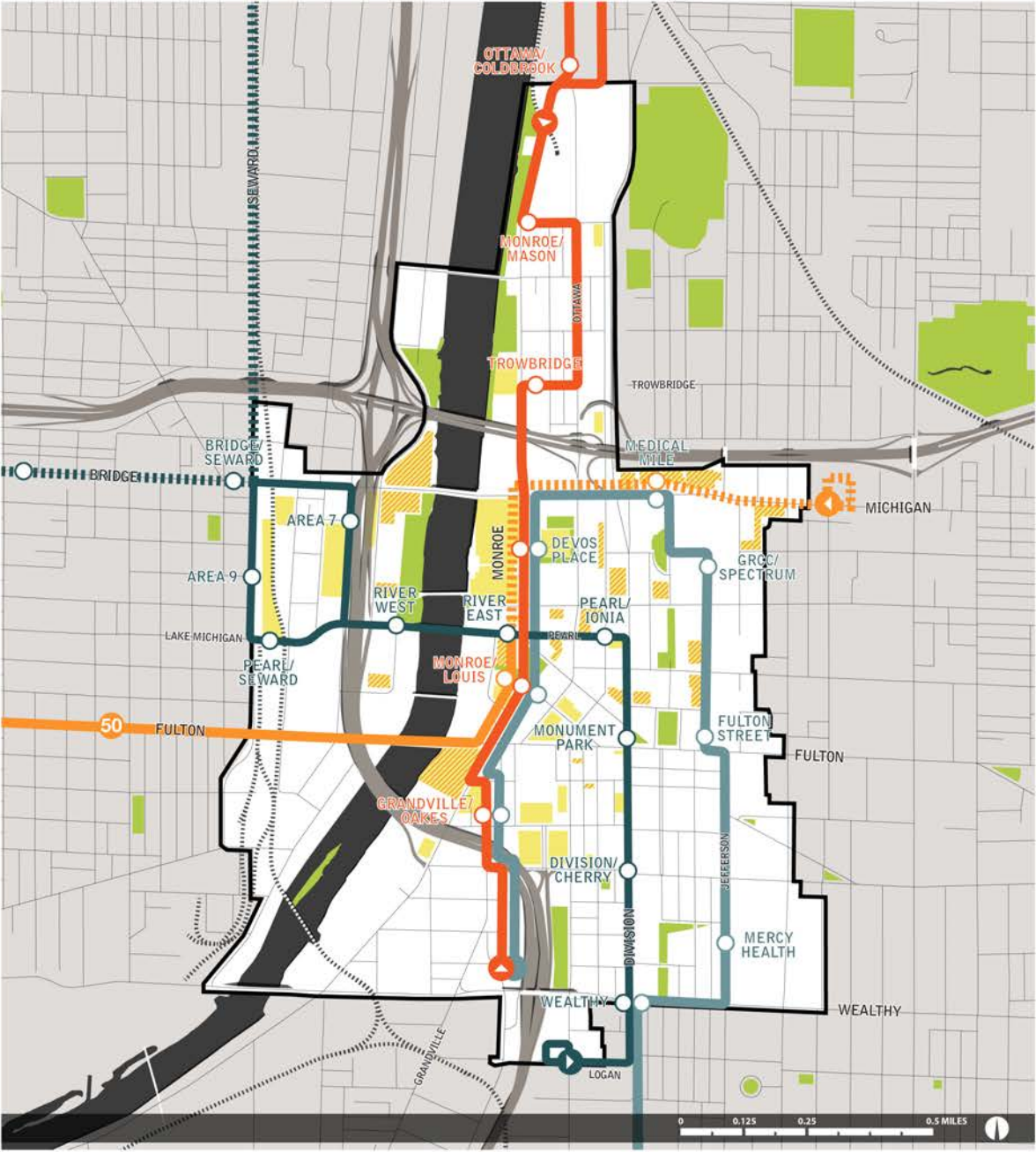


DESTINATION	ROUTE(S)	GRID
Amtrak Station	8,18	E6
Arway Grand Plaza Hotel	9, 11, 19	E5
Aspen College	14	G5
Berkhof Nature Center	7	8,4,3
Blodgett Hospital	6	G6
Boyer Center	6, 24	K7
Bretton Village Mall	6, 24	K7
Calvin College	1, 2, 5	K9
Calvin College High School	15	D1
Calvin College High - North	8, 44	B10
Calvin College High - Rivertown	4	B10
Calvin College High - South	5, 24, 29	G12
Centerpoint Mall	6, 14, 15	F5
Innovation Calvin High School	6	F4
City High Middle School	11	F4
Civic Theater	9	F5
City Arts & Sciences Academy	6	F5
Dakota	9	E3
DeVos Place Convention Center	11, 19	E2
East Grand Rapids City Hall	6	H6
East Grand Rapids High School	6	H6
East Kentwood High School	4	G12
Ford State University	6, 8, 13	E5
Ford Fairhouse	6, 51	F5
Ford Motor Center	15	E5
Gallagher Village	6	H6
Grand Rapids Airport	7, 9, 50, 51	K10
Gerald R. Ford Museum	6, 16, 24	G7
Grand Rapids Art Museum	6, 9, 11, 13	E5
Grand Rapids	1, 3, 4, 6, 14, 15	F5
Grand Rapids City Hall	11, 13	E5
Grand Rapids	6, 51, 60	F5
Grand Rapids	1, 3, 4, 6, 14, 15	E5
Grand Rapids	6, 80	F5
Grand Rapids	6, 24, 29	B5
Grand Rapids	Central Station	E5
Grand Rapids	9, 12, 50, 51	E5
Grand Rapids	50	E5
Grand Rapids	15	G5
Grand Rapids	6, 9, 13	E5
Grand Rapids	15	H4
Grand Rapids	13, 51	E5
Grand Rapids	15	H4
Grand Rapids	2, 44	H10
Grand Rapids	15	H4
Grand Rapids	3, 5	F6
Grand Rapids	15	C11
Grand Rapids	11, 13, 18, 51	E5
Grand Rapids	2, 24	F12
Grand Rapids	1	B10
Grand Rapids	10, 29	C49
Grand Rapids	3, 5	F6
Grand Rapids	19	D1
Grand Rapids	2, 44	G10
Grand Rapids	13	G5
Grand Rapids	19	G5
Grand Rapids	1, 3, 4, 6, 14, 15	E5
Grand Rapids	9	E2
Grand Rapids	9, 51	E5
Grand Rapids	2, 9	F6
Grand Rapids	2, 5, 13, 24, 29, 44	B1
Grand Rapids	16, 29	D8
Grand Rapids	16	D8

FIG A2.40: The Rapid transit map. Data Source: The Rapid website

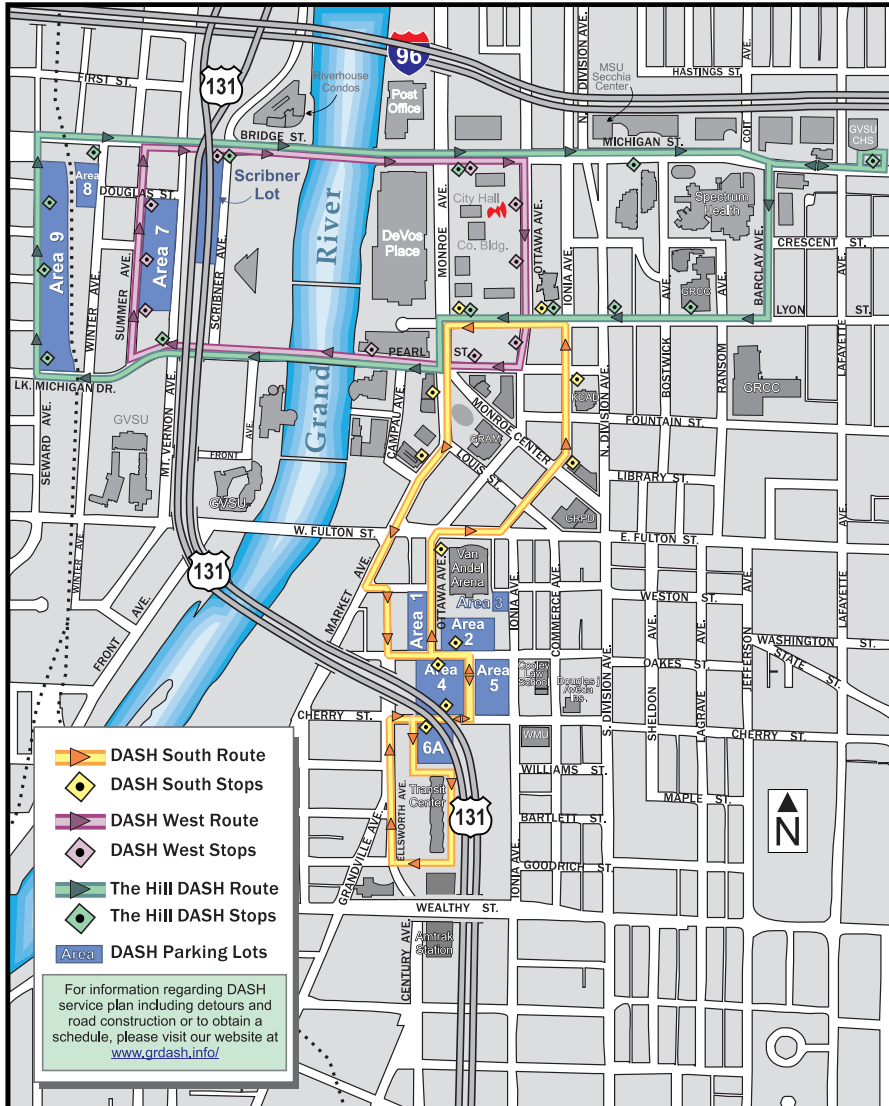


# DASH ROUTES

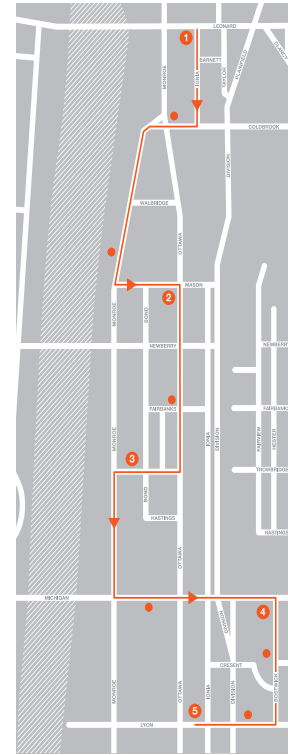


- DASH E-W (Late 2015/2016)
- DASH N-S
- SILVER LINE
- LAKER LINE
- CITY PARKING FACILITIES
- NON-CITY PARKING FACILITIES

FIG A2.42: Downtown Dash routes.



March 2012



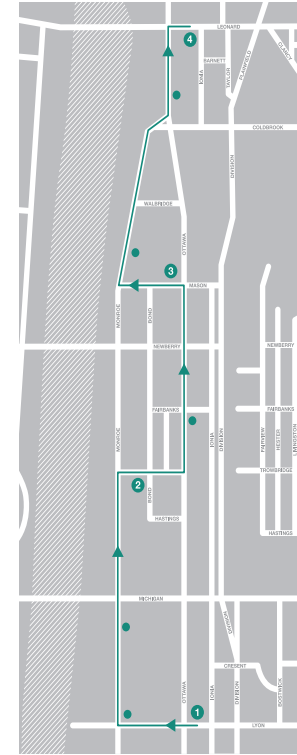
## South Bound

Mon - Friday  
6:30 am - 10 pm

### Towards Downtown

All times are approximate. Please take traffic into consideration.

- |   |  |   |
|---|--|---|
| <ul style="list-style-type: none"> <li>1 Leonard &amp; Ionia<br/>:10, :30, &amp; :50 past the hour</li> <li>3 Coltsbrook</li> <li>Monroe</li> <li>2 Mason &amp; Ottawa<br/>:12, :32, &amp; :52 past the hour</li> </ul> | <ul style="list-style-type: none"> <li>4 Fairbanks &amp; Ottawa</li> <li>5 Monroe &amp; Trowbridge<br/>:12, :32, &amp; :52 past the hour</li> <li>Michigan</li> <li>4 Michigan &amp; Bostwick<br/>:16, :36, &amp; :56 past the hour</li> </ul> | <ul style="list-style-type: none"> <li>Bostwick</li> <li>Lyon</li> <li>5 Lyon &amp; Ottawa<br/>:19, :39, &amp; :59 past the hour</li> </ul> |
|---|--|---|



## North Bound

Mon - Friday  
6:30 am - 10 pm

### Towards Monroe North

All times are approximate. Please take traffic into consideration.

- |   |  |   |
|---|--|---|
| <ul style="list-style-type: none"> <li>1 Lyon &amp; Ottawa<br/>:19, :39, &amp; :59 past the hour</li> <li>Lyon &amp; Monroe</li> <li>2 Monroe &amp; Trowbridge<br/>:02, :22, &amp; :42 past the hour</li> </ul> | <ul style="list-style-type: none"> <li>3 Fairbanks &amp; Ottawa</li> <li>3 Mason &amp; Ottawa<br/>:04, :24, &amp; :44 past the hour</li> <li>Monroe</li> <li>Monroe</li> </ul> | <ul style="list-style-type: none"> <li>4 Leonard &amp; Ionia<br/>:07, :27, &amp; :47 past the hour</li> </ul> |
|---|--|---|

FIG A2.43: Dash routes and stops map. Data Source: Grand Rapids Parking Services

**TO REPORT ROAD PROBLEMS ON ANY PUBLIC ROAD LOCATED WITHIN THE TOWNSHIPS OF KENT COUNTY CONTACT THE KENT COUNTY ROAD COMMISSION**

(616) 242-6950    [potholes@kentcountyroads.net](mailto:potholes@kentcountyroads.net)

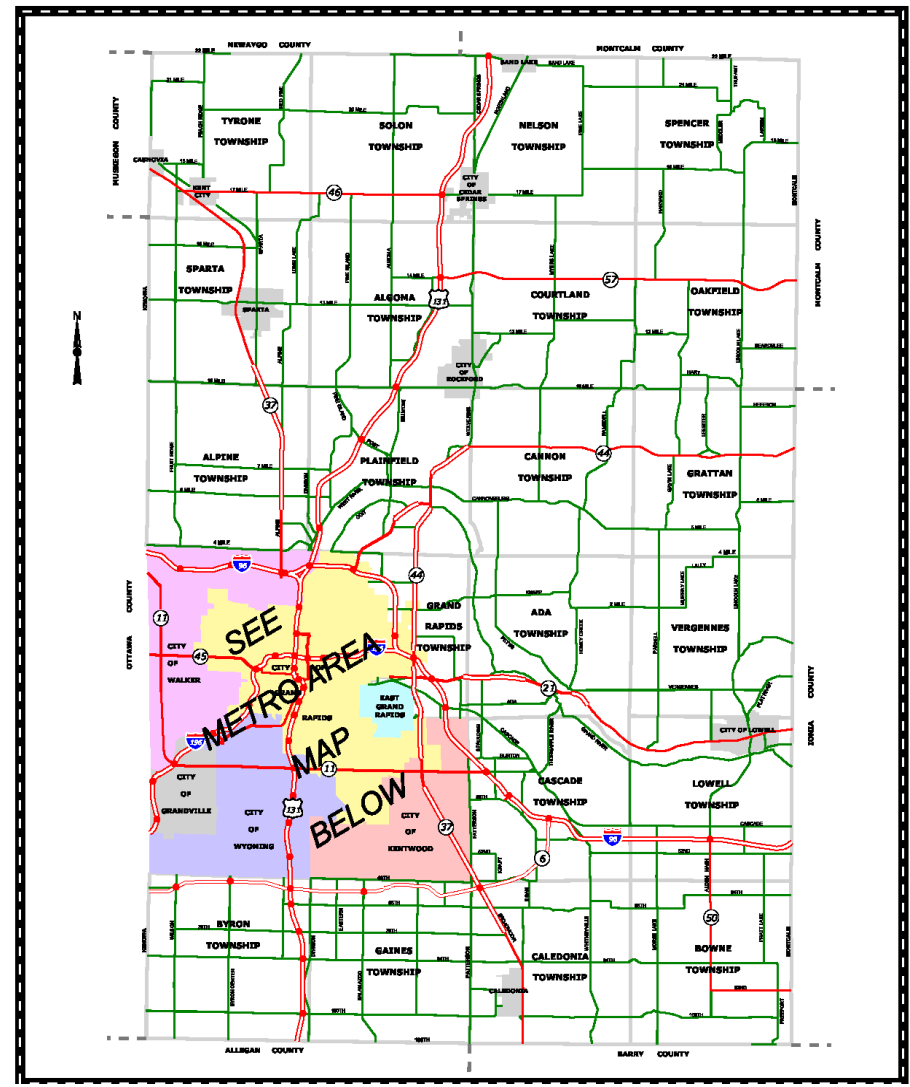
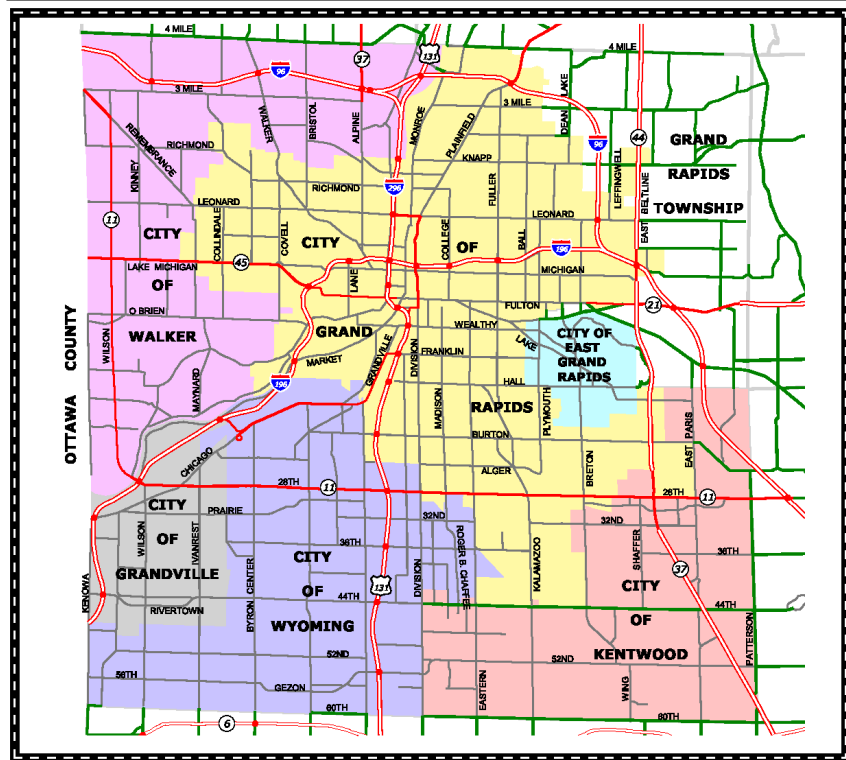
— COUNTY ROADS    — INTERSTATE, STATE, & U.S. ROUTES

**CONTACT NUMBERS FOR CITIES & VILLAGES.**  
**AREA CODE FOR ALL OF KENT COUNTY IS 616.**

CITY OF CEDAR SPRINGS 696-1330	VILLAGE OF CASNOVIA 675-4780
CITY OF LOWELL 897-5929	VILLAGE OF KENT CITY 678-7232
CITY OF ROCKFORD 866-1537	VILLAGE OF SAND LAKE 636-8854
VILLAGE OF CALEDONIA 891-9384	VILLAGE OF SPARTA 887-8251

**GRAND RAPIDS METRO AREA**

CITY OF GRAND RAPIDS 456-3232	CITY OF GRANDVILLE 538-1990	CITY OF WALKER 791-6854
EAST GRAND RAPIDS 940-4870	CITY OF KENTWOOD 554-0817	CITY OF WYOMING 530-7260

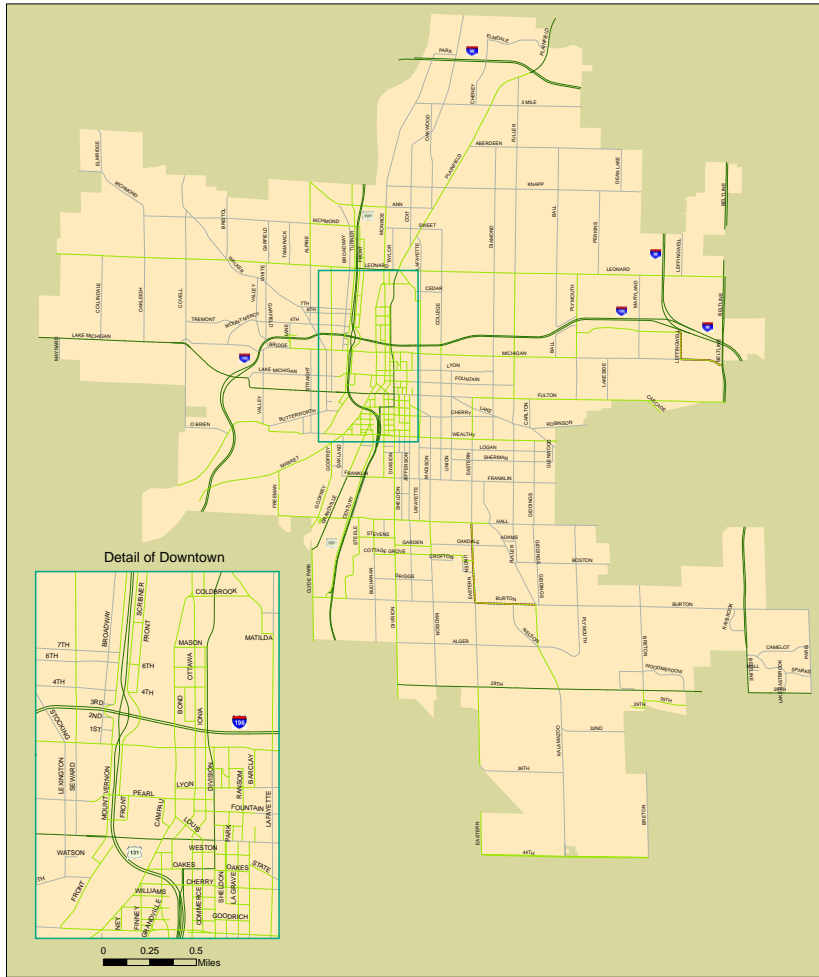


MAP SHOWING US AND COUNTY OWNED ROADS  
 Source: Kent County

FIG A2.44: US and County-owned roads. Data Source: Kent County

# City Truck Routes

City of Grand Rapids  
Kent County, MI



Legend	
	Major Roads
	Truck Route
	Trunk Line
	7 AM to 7 PM only
	City Limits

0 0.25 0.5 Miles

0 0.5 1 2 3 4 Miles

Trucks may only use major roads to make deliveries.

July 2007  
2.0 Revision

FIG A2.45: City truck routes map. Data Source: City of Grand Rapids



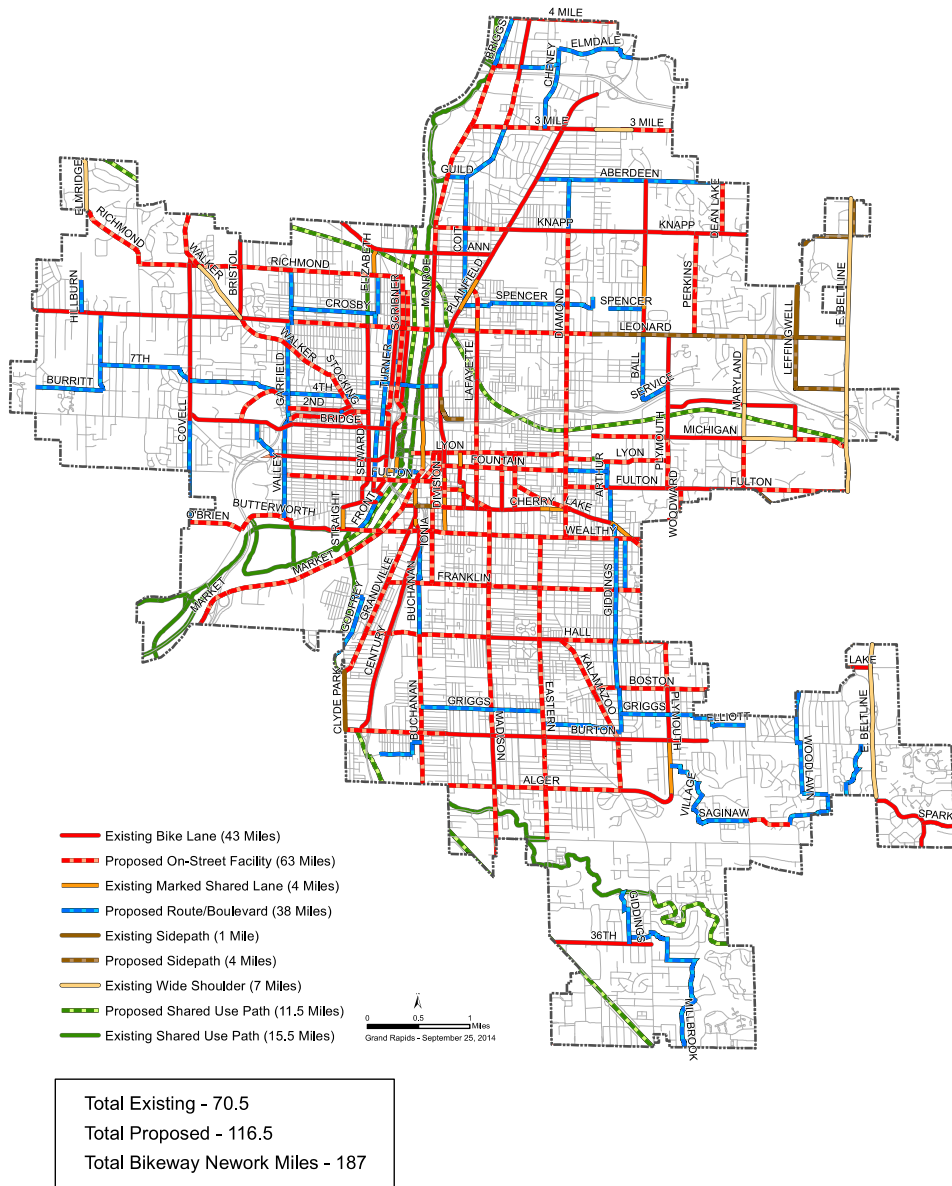


FIG A2.46: City of Grand Rapids bikeway implementation progress. Data Source: Kent County



# Existing Division and Iona



FIG A2.48: Existing lane utilization on Ionia and Division north of 196.

# Humanize Ionia and Ottawa

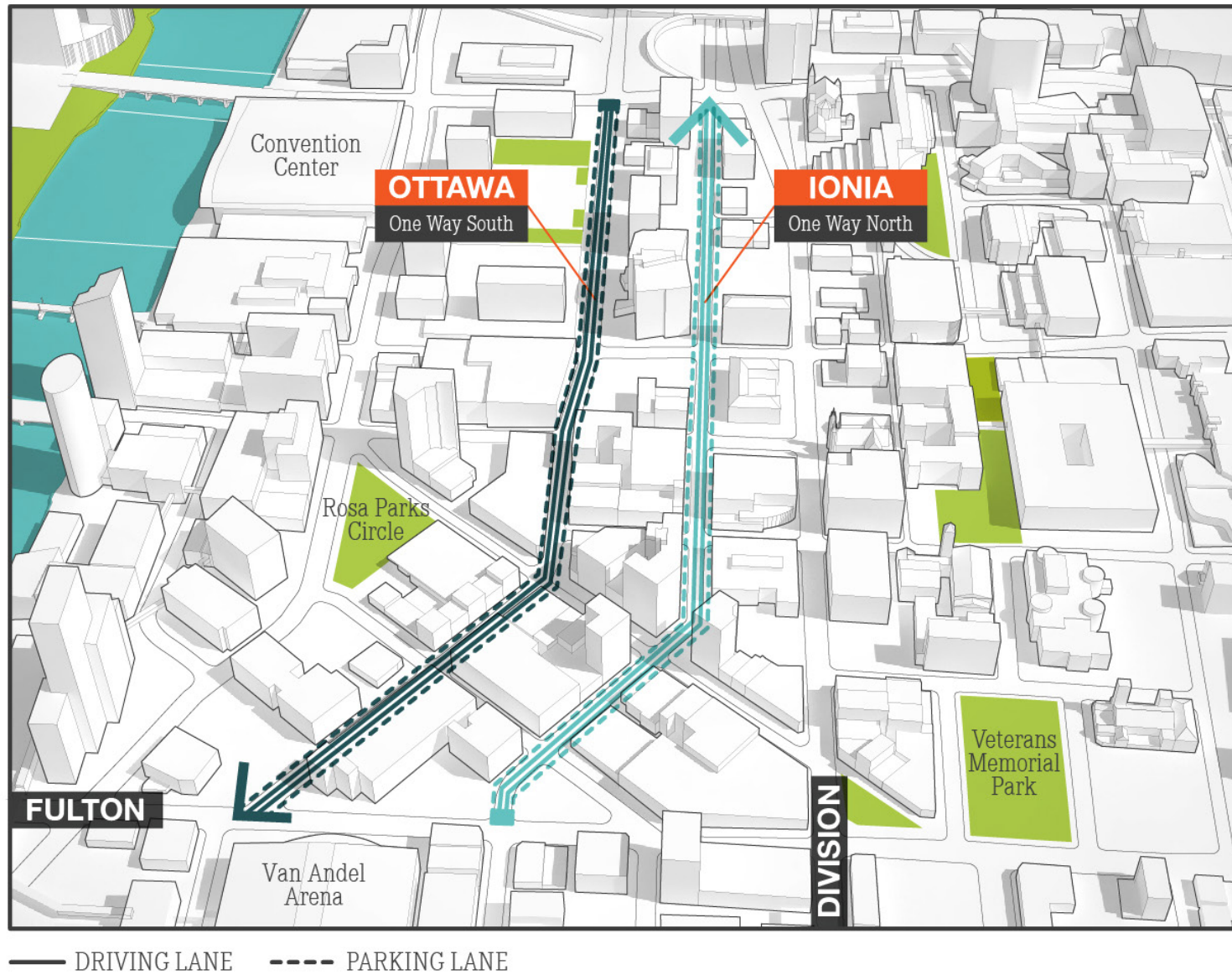
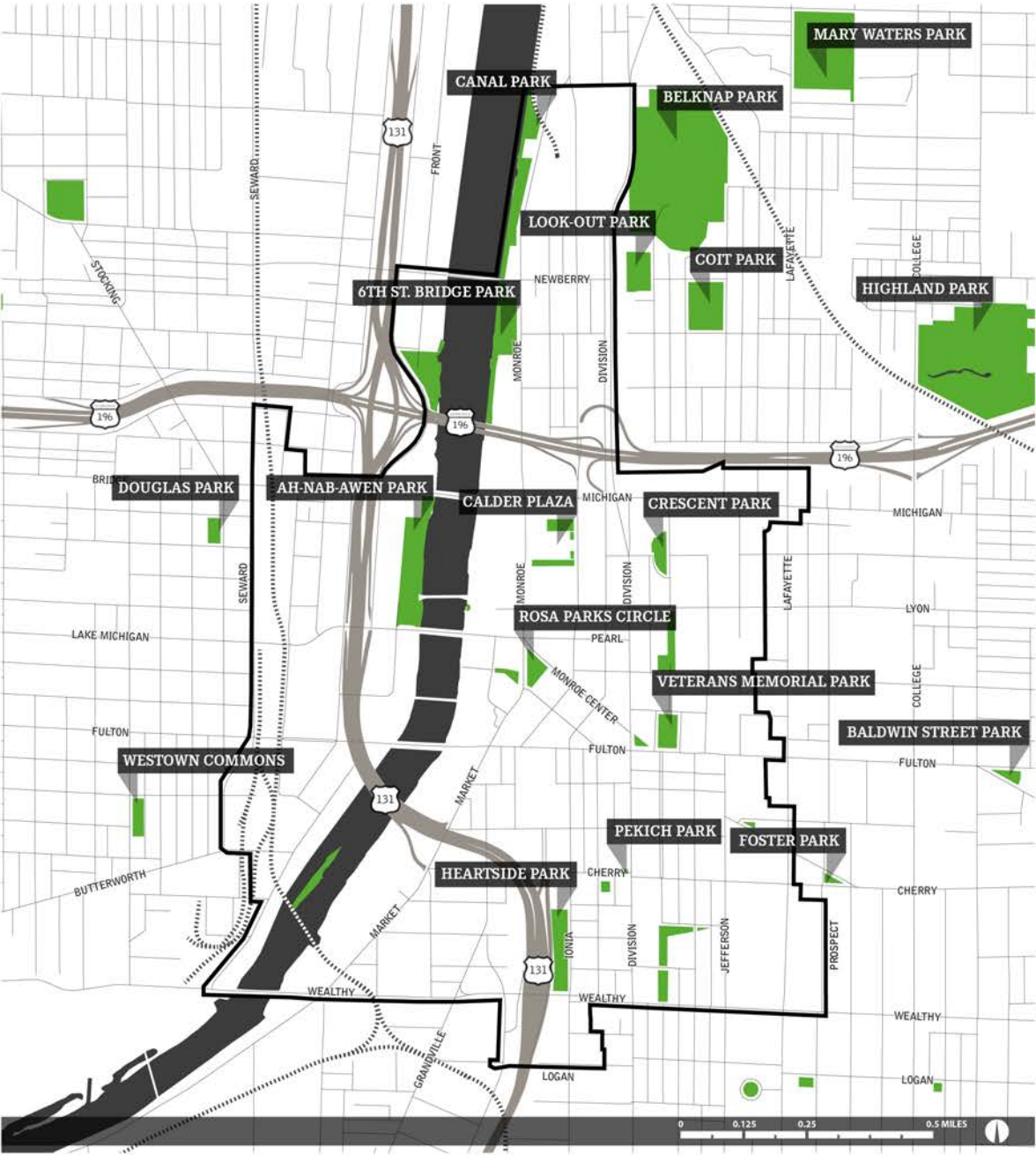


FIG A2.49: Existing lane organization on Ottawa and Ionia through the downtown core.

# OPEN SPACE

CITY OF GRAND RAPIDS



■ OPEN SPACE

FIG A2.50: Existing open space assets

# OPEN SPACE

CITY OF GRAND RAPIDS



1/4 MILE WALK RADIUS

OPEN SPACE

FIG A2.51: Open space proximity map.

# Calder Plaza: Alternative Option



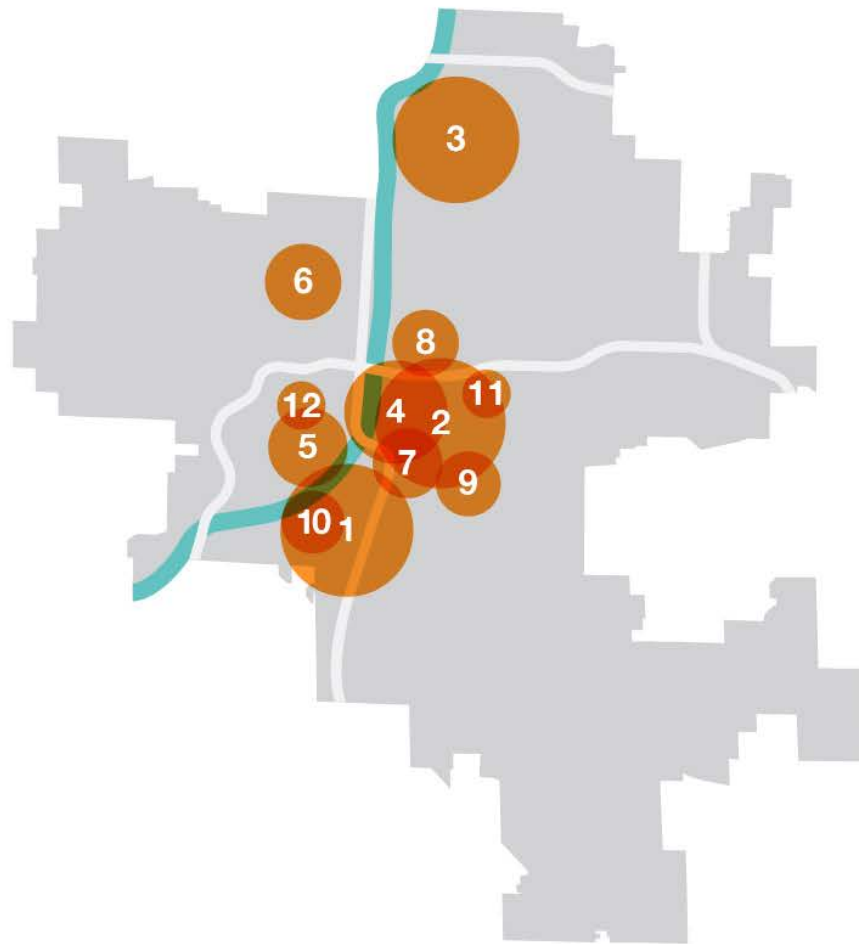
FIG A2.52: Potential alternate Monroe Ave access to Calder Plaza

# SIGN IN SHEETS

OPEN HOUSE + NEIGHBORHOOD MEETINGS

## CITY OF GRAND RAPIDS

\* Circles scaled to # of attendees



## TOTAL SIGN-INS **538**

### TOP NEIGHBORHOODS IN GRAND RAPIDS

1	Roosevelt Park	77 (14%)
2	Heritage Hill	73 (14%)
3	Creston	69 (13%)
4	Downtown	46 (9%)
5	SWAN / JBAN	27 (5%)
6	West Grand	25 (5%)
7	Heartside	21 (4%)
8	Belknap	19 (4%)
9	Eastown	18 (3%)
10	Black Hills	17 (3%)
11	Midtown	10 (2%)
12	West Side	10 (2%)

### TOP NEIGHBORING CITIES AND TOWNS

1	Kentwood	8 (1%)
2	Allendale	7 (1%)
3	Walker	6 (1%)
4	Rockford	4 (1%)

FIG A2.53: Open house and neighborhood meeting attendees through March 4, 2015



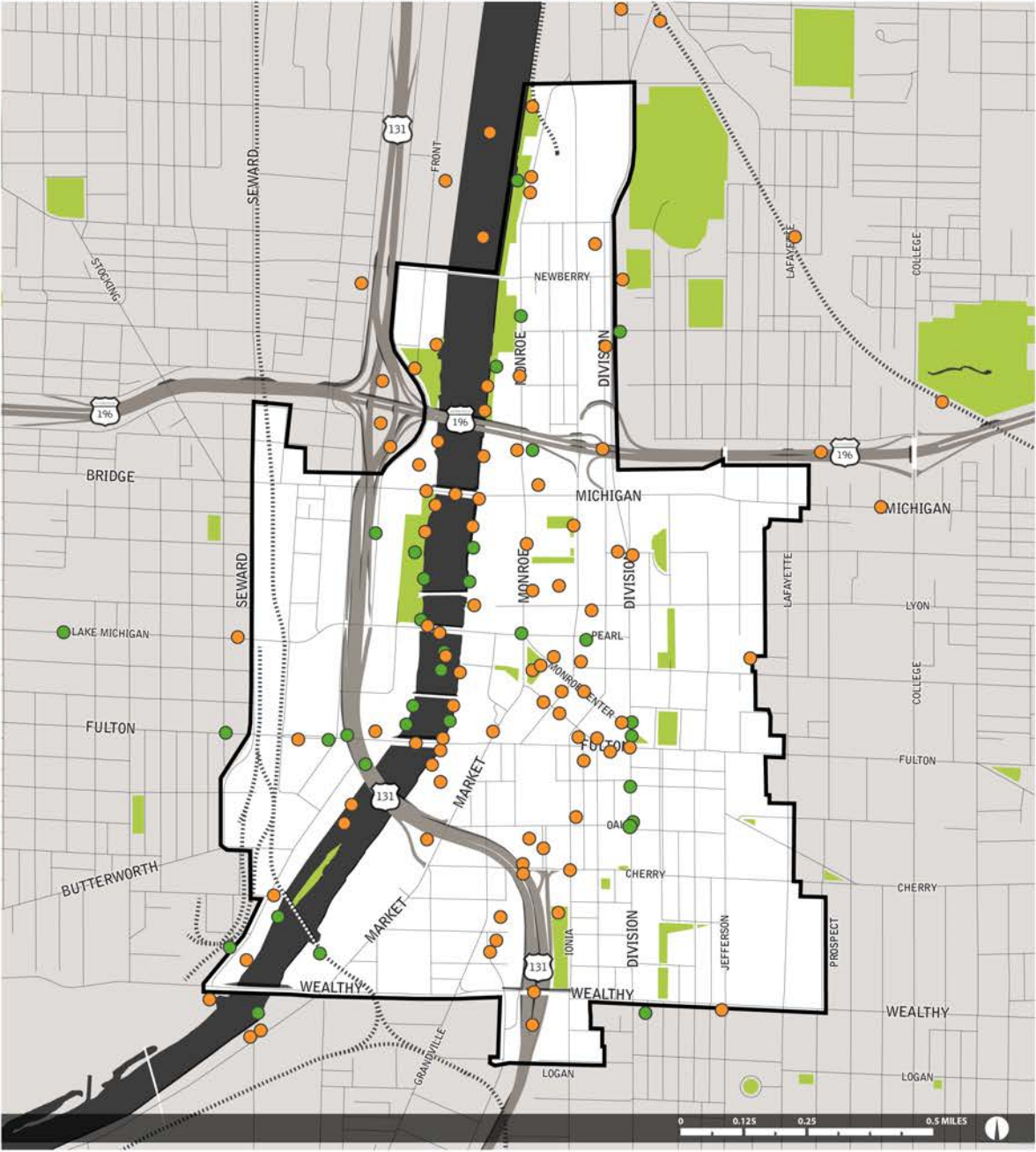
# COLLABORATIVE MAP

ONLINE

**TOTAL COMMENTS: 144**

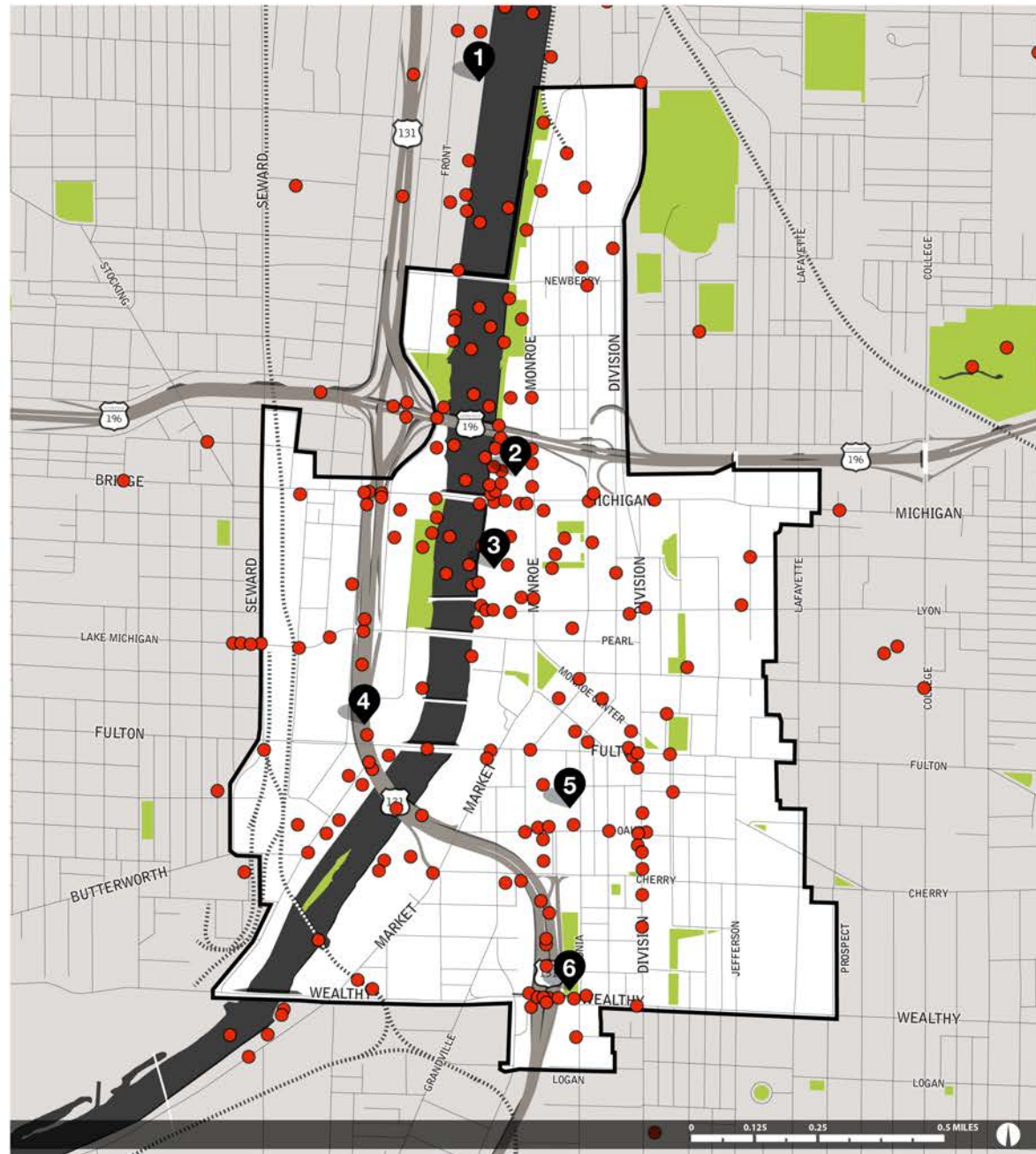
IDEA: 104

OBSERVATION: 40



- IDEA
- OBSERVATION

FIG A2.54: Online collaborative map placemarkers



## IDEA. INSIGHT. BARRIER

**1**

“Currently not all trails connect - have to ride on road which is dangerous.”

**2**

“No crosswalk at Michigan Street. Needs more connectivity for walking besides the river.”

**3**

“No active uses between the Convention Center and the river. Could it be widened for small buildings? New active uses on the Convention Center?”

**4**

“Thoroughly study the US-131 corridor through the lens of economic development, connectivity, multi-modal access, livability, health, and city building. Consider removal, burying, or a boulevard.”

**5**

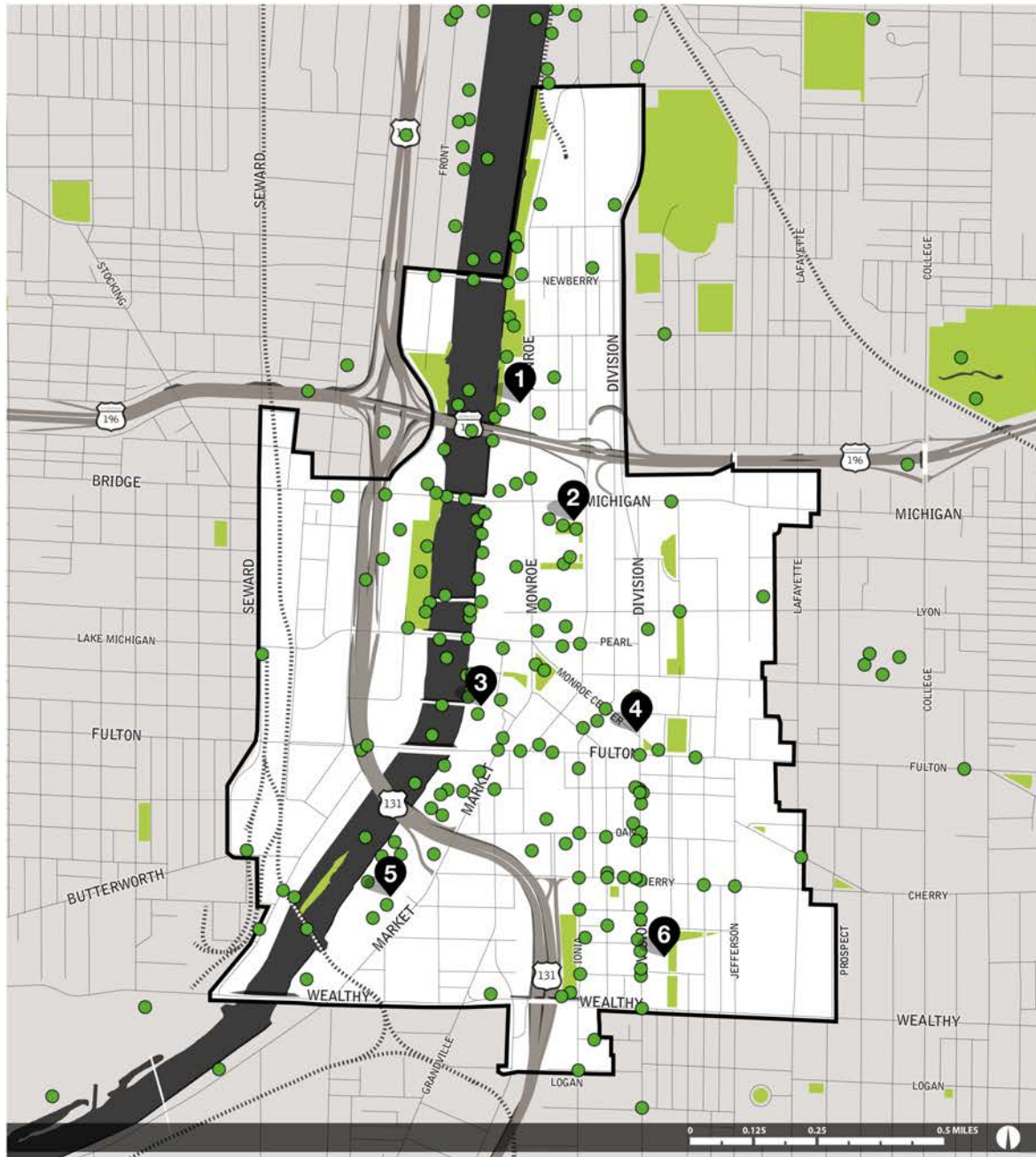
“These parking lots! Could be underground with retail/business on the street level.”

**6**

“Wealthy over 131 is terrible for walking/biking.”

FIG A2.55: Sampling of barriers identified by the Grand Rapids community at the open house

**IDEA. INSIGHT. BARRIER**



**1**

“Solve flooding concerns with natural processes - avoid concrete wherever possible.”

**2**

“Can we add more green space to Calder Plaza? It’s so much concrete.”

**3**

“Students are not welcomed into downtown over bridge.”

**4**

“Monroe Center works well as a pedestrian street. Model new developments after it.”

**5**

“City-Owned land on the river should be developed following guidelines from GR Forward and Green GR.”

**6**

“This area gets a bad reputation due to the shelters and soup kitchens. I think it scares a lot of people away from downtown.”

FIG A2.56: Sampling of insights identified by the Grand Rapids community at the open house

# GOAL AREA PRIORITIES

ROUND THREE NEIGHBORHOOD MINISERIES ACTIVITY RESULTS

## STRATEGIES SELECTED AS PRIORITY

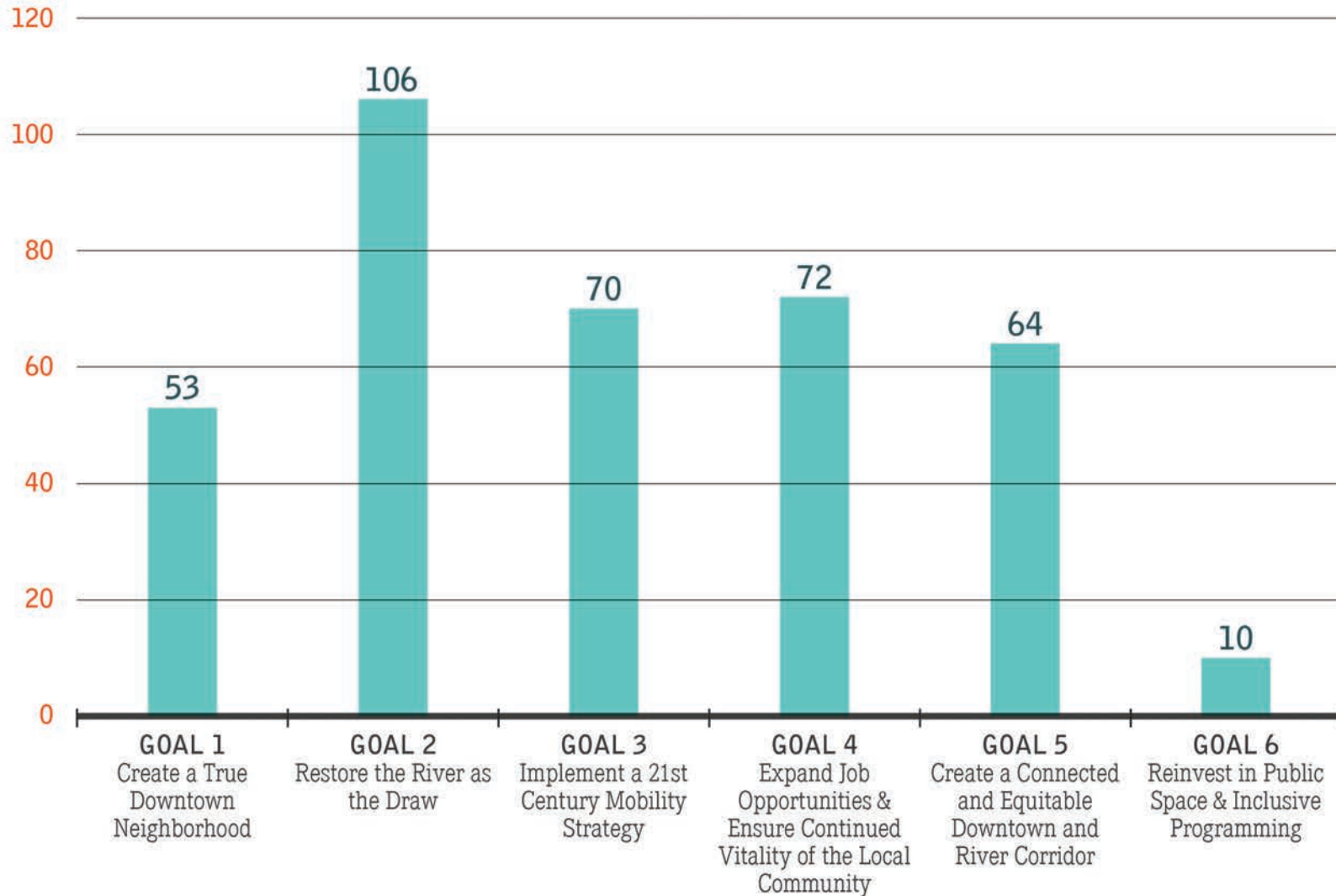
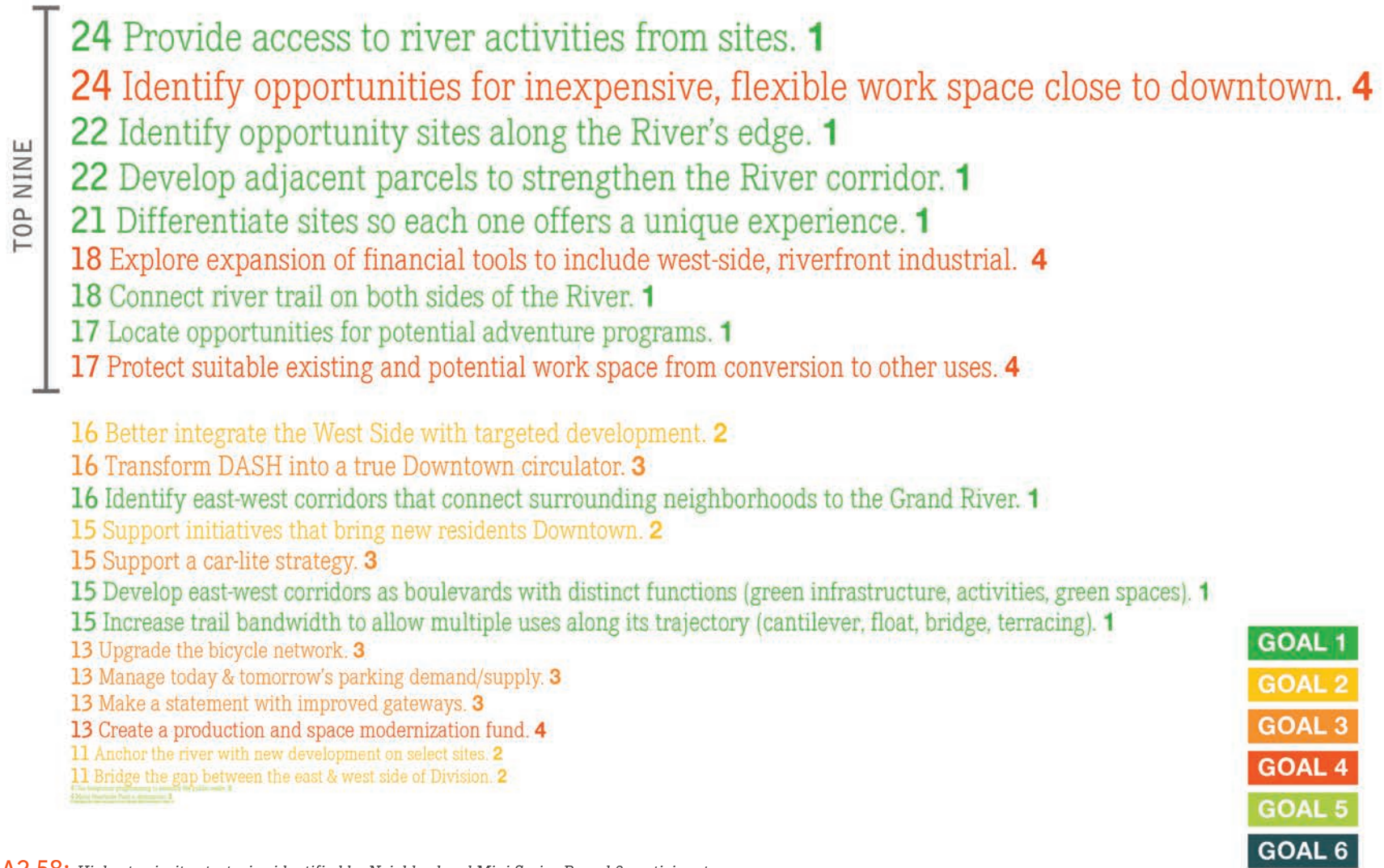


FIG A2.57: Goal area priorities after the conclusion of Neighborhood Mini Series meetings.. Note: The goal areas were restructured after this stage in the process.

# GOAL AREA PRIORITIES

ROUND THREE NEIGHBORHOOD MINISERIES ACTIVITY RESULTS

“VOTES” STRATEGIES SELECTED AS PRIORITY



**FIG A2.58:** Highest priority strategies identified by Neighborhood Mini Series Round 3 participants.  
 Note: The goal areas were restructured after this stage in the process. This graphic has been revised to reflect final organization of goal areas and strategies.