

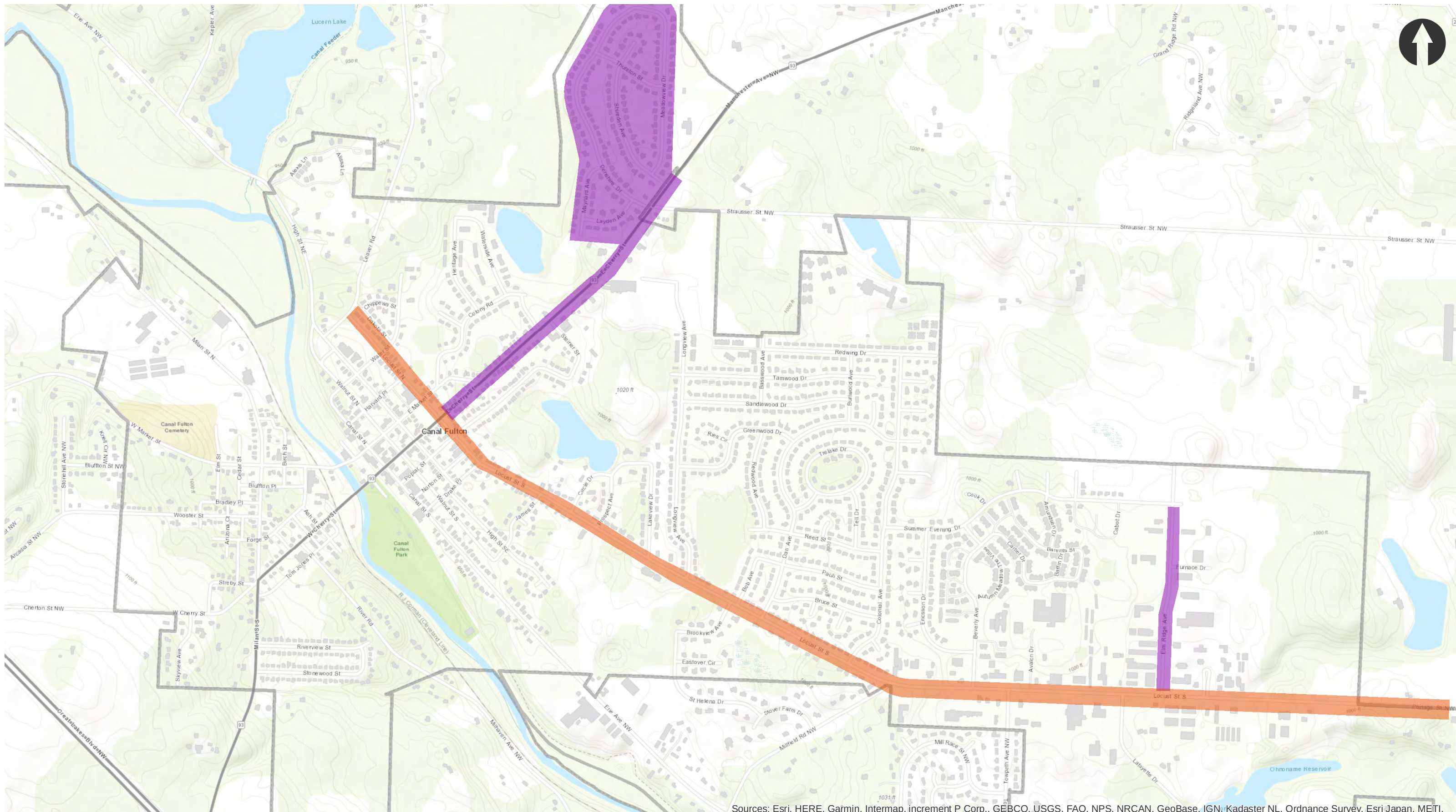
CANAL FULTON

ACTIVE TRANSPORTATION & CONNECTIVITY PLAN

JULY 2019



ANALYSIS



Sources: Esri, HERE, Garmin, Intermap, increment P Corp., GEBCO, USGS, FAO, NPS, NRCAN, GeoBase, IGN, Kadaster NL, Ordnance Survey, Esri Japan, METI,

STUDY AREA LOCATIONS

AREA A + AREA B

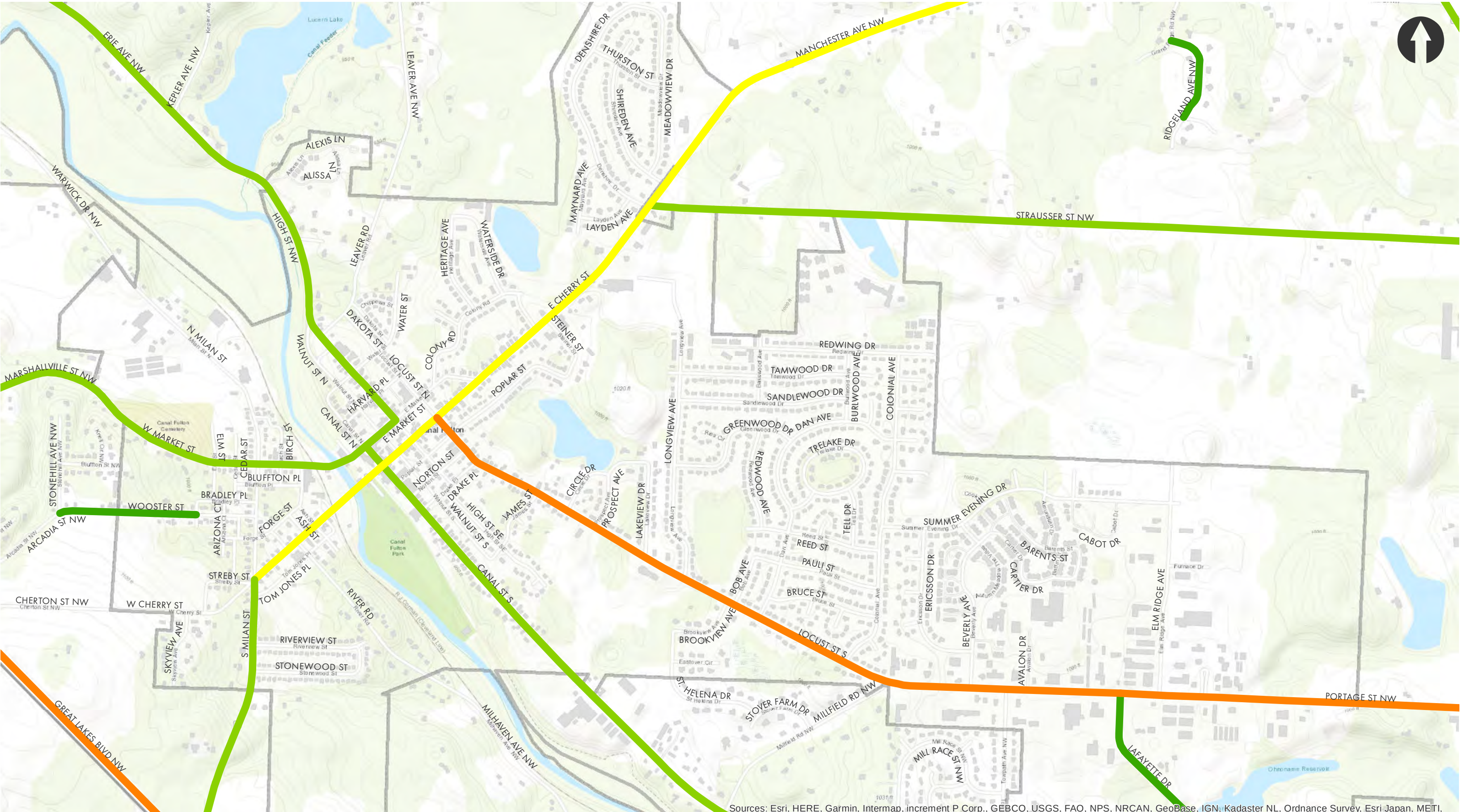
- STUDY AREA A
- STUDY AREA B
- CITY LIMITS

CANAL FULTON

ACTIVE TRANSPORTATION & CONNECTIVITY PLAN

1 INCH = 1,000 FEET

Environmental Design Group
The community impact people.

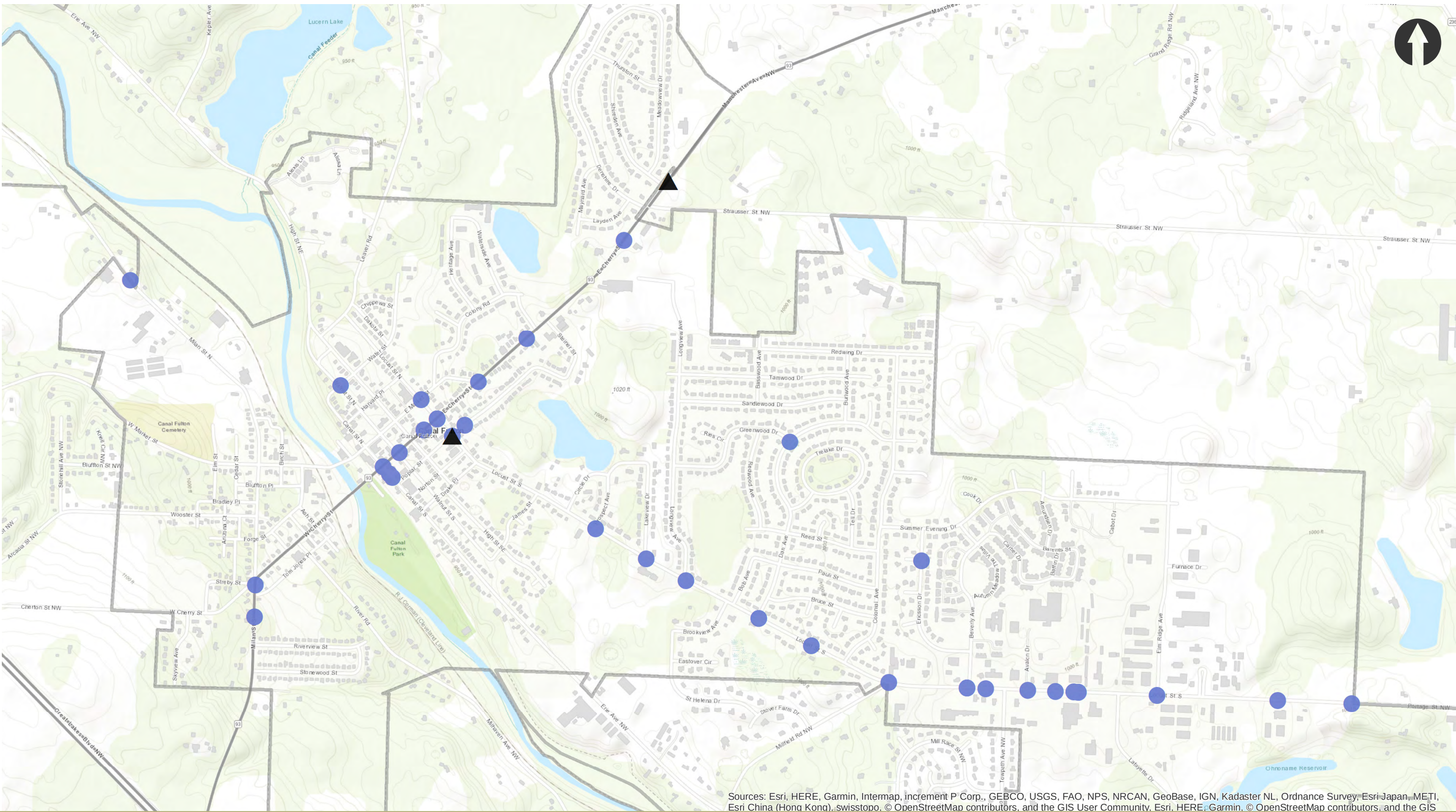


TRAFFIC COUNTS

ODOT AADT (2017)

- < 1000
- 1001 - 5000
- 5001 - 10000
- 10001 - 20000
- 20001 +
- CITY LIMITS

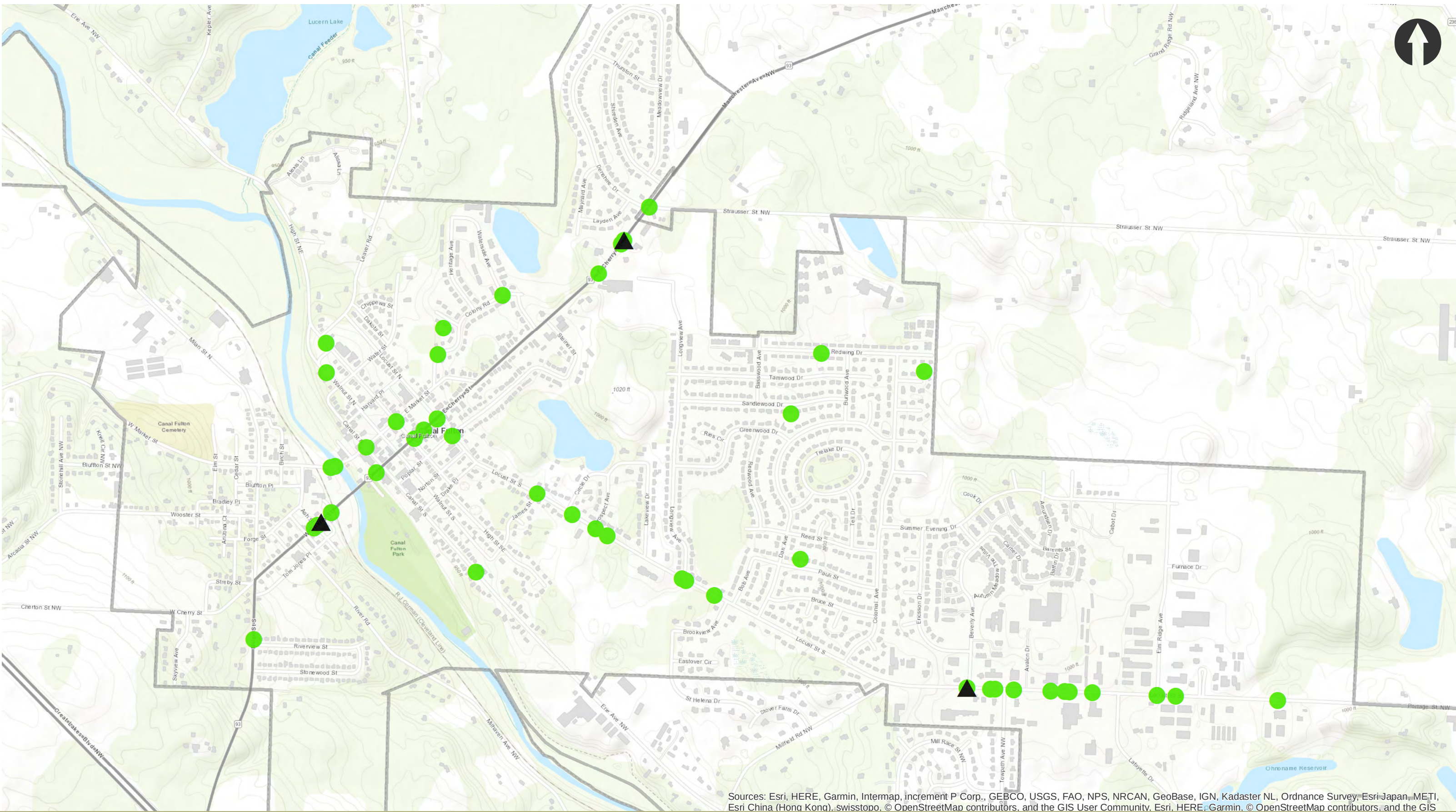
Sources: Esri, HERE, Garmin, Intermap, increment P Corp., GEBCO, USGS, FAO, NPS, NRCAN, GeoBase, IGN, Kadaster NL, Ordnance Survey, Esri Japan, METI,



TRAFFIC ACCIDENTS

ODOT REPORTED (TIMS)

- VEHICLE ACCIDENT (2014)
- ▲ BIKE/PEDESTRIAN ACCIDENT
- CITY LIMITS



TRAFFIC ACCIDENTS

ODOT REPORTED (TIMS)

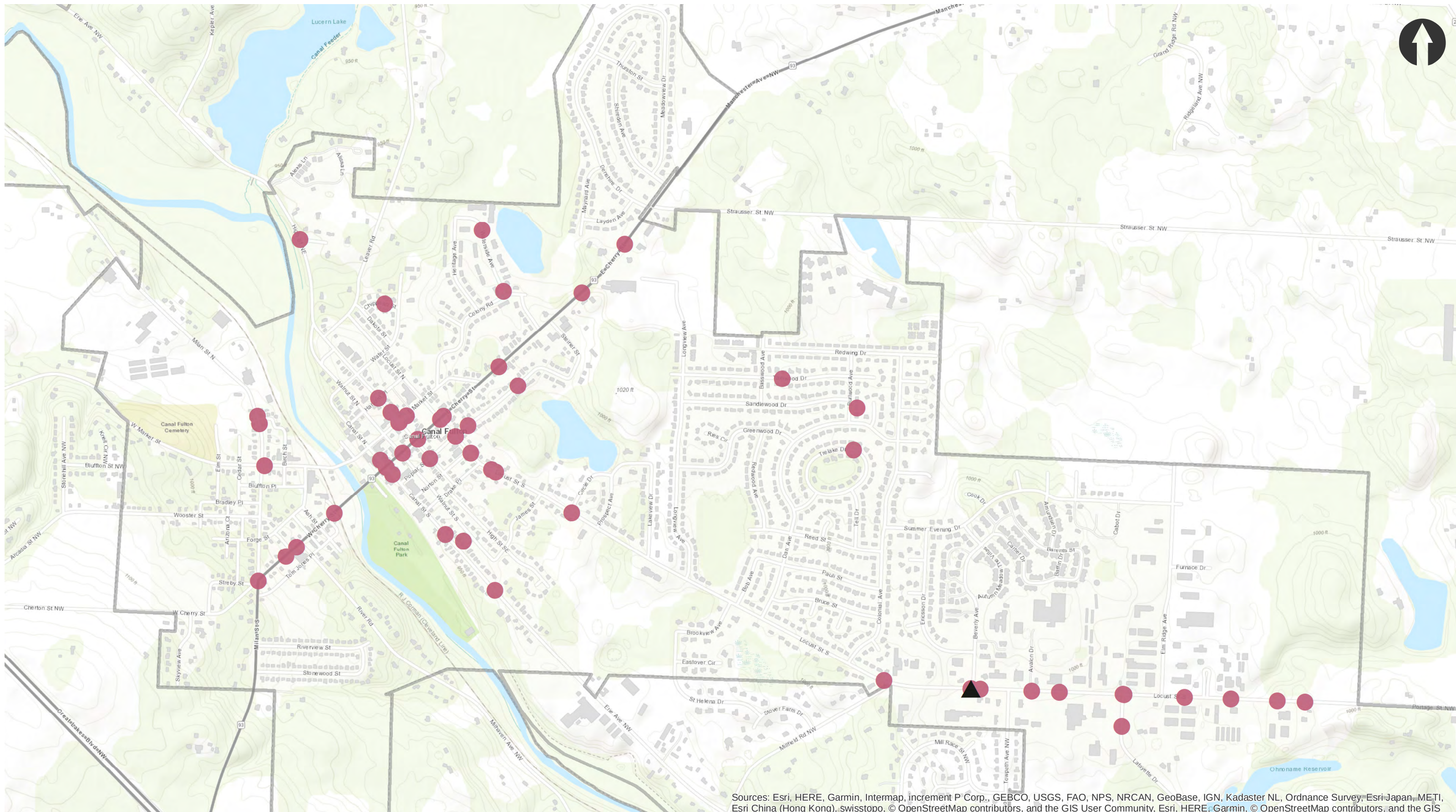
- VEHICLE ACCIDENT (2015)
- ▲ BIKE/PEDESTRIAN ACCIDENT
- CITY LIMITS

CANAL FULTON

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ACTIVE
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Sources: Esri, HERE, Garmin, Intermap, increment P Corp., GEBCO, USGS, FAO, NPS, NRCAN, GeoBase, IGN, Kadaster NL, Ordnance Survey, Esri-Japan, METI, Esri China (Hong Kong), swisstopo, © OpenStreetMap contributors, and the GIS User Community, Esri, HERE, Garmin, © OpenStreetMap contributors, and the GIS

TRAFFIC ACCIDENTS

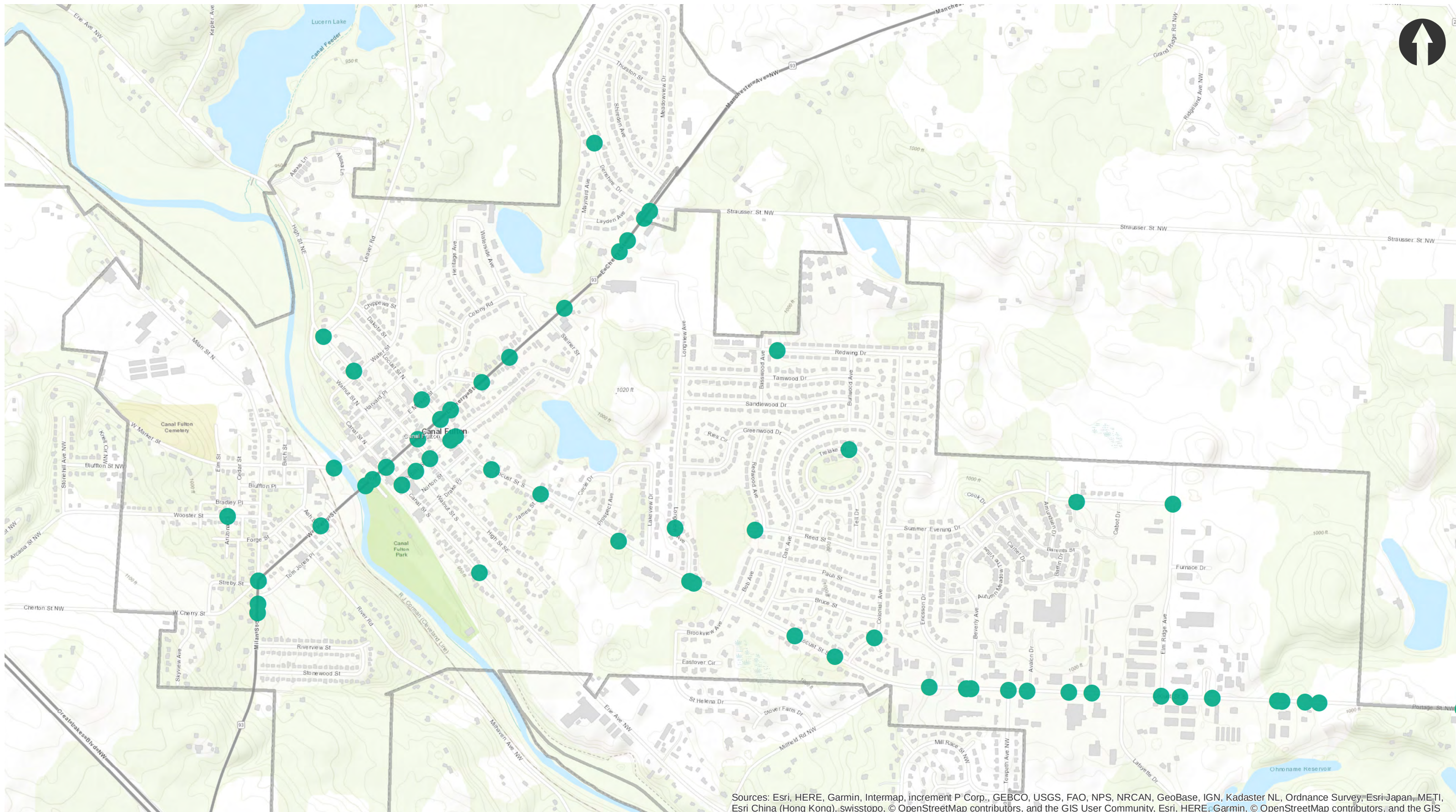
ODOT REPORTED (TIMS)

- VEHICLE ACCIDENT (2016)
- ▲ BIKE/PEDESTRIAN ACCIDENT
- ▬ CITY LIMITS

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TRAFFIC ACCIDENTS

ODOT REPORTED (TIMS)

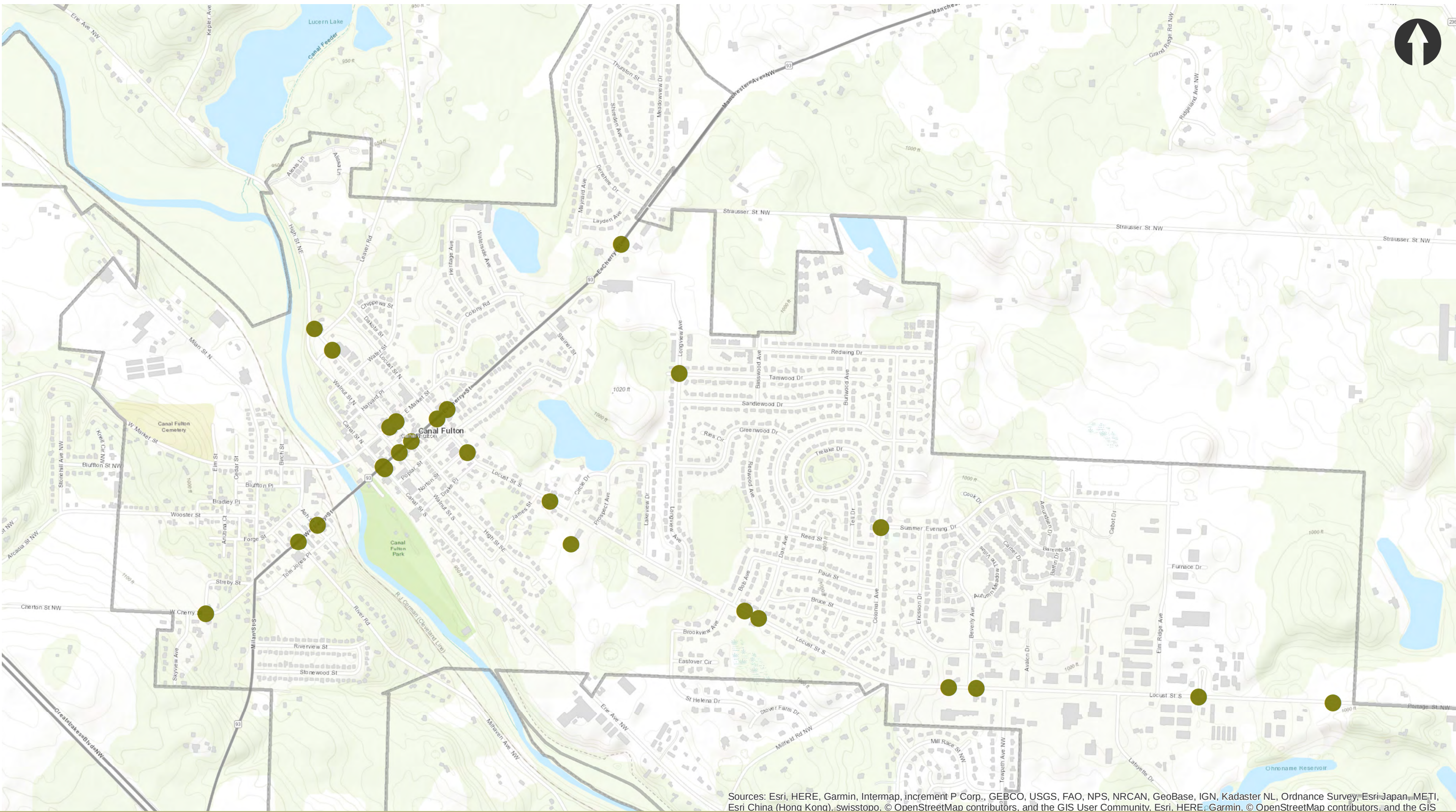
-  VEHICLE ACCIDENT (2017)
-  BIKE/PEDESTRIAN ACCIDENT
-  CITY LIMITS

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& CONNECTIVITY PLAN

1 INCH = 1,000 FEET





TRAFFIC ACCIDENTS

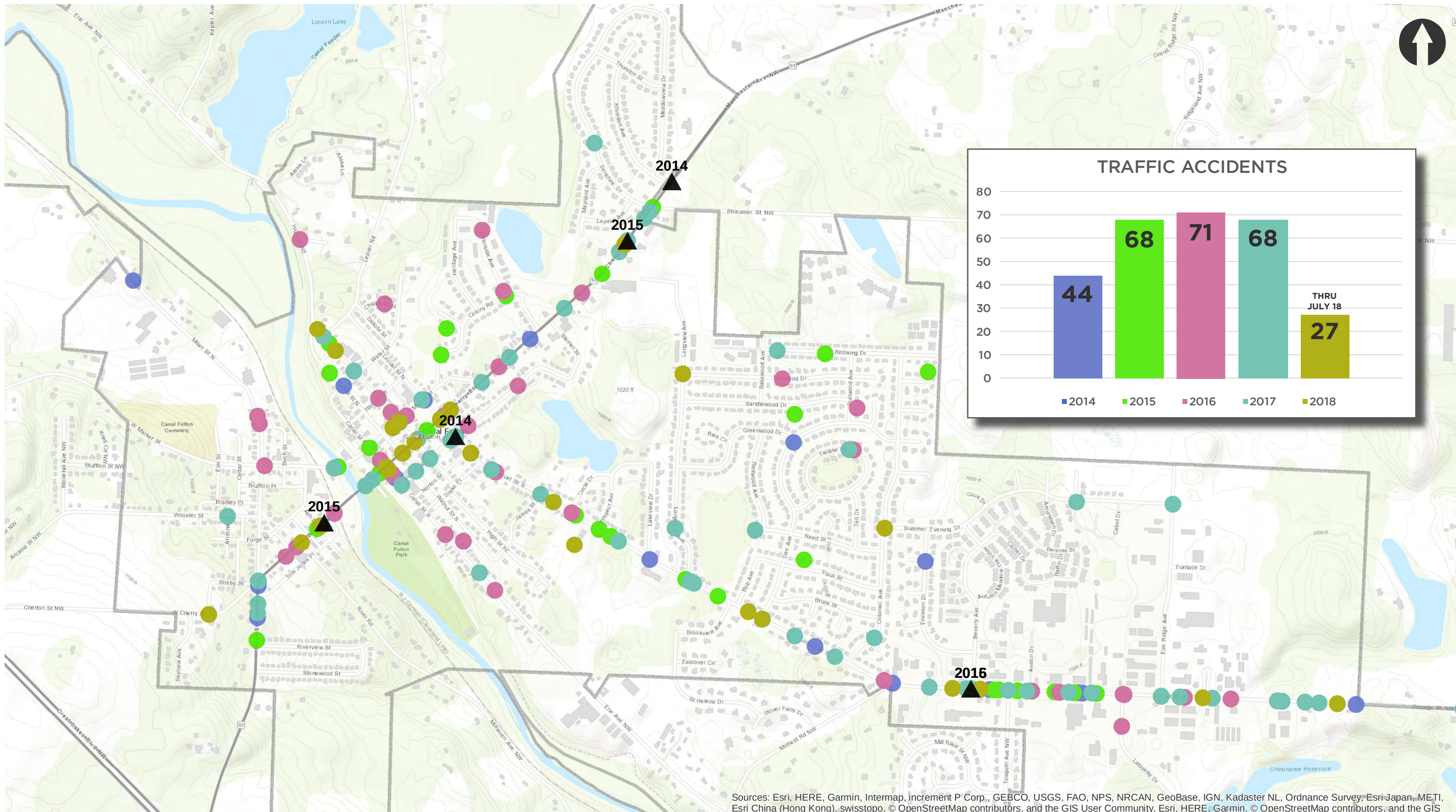
ODOT REPORTED (TIMS)

- VEHICLE ACCIDENT (2018)
- ▲ BIKE/PEDESTRIAN ACCIDENT
- CITY LIMITS

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1 INCH = 1,000 FEET





TRAFFIC ACCIDENTS

ODOT REPORTED (TIMS)

- VEHICULAR ACCIDENTS
- 2014
 - 2015
 - 2016
 - 2017
 - 2018
- BIKE/PED ACCIDENTS (2014-2018)
-
- CITY LIMITS
-



Sources: Esri, HERE, Garmin, Intermap, increment P Corp., GEBCO, USGS, FAO, NPS, NRCAN, GeoBase, IGN, Kadaster NL, Ordnance Survey, Esri Japan, METI,

TOPOGRAPHY

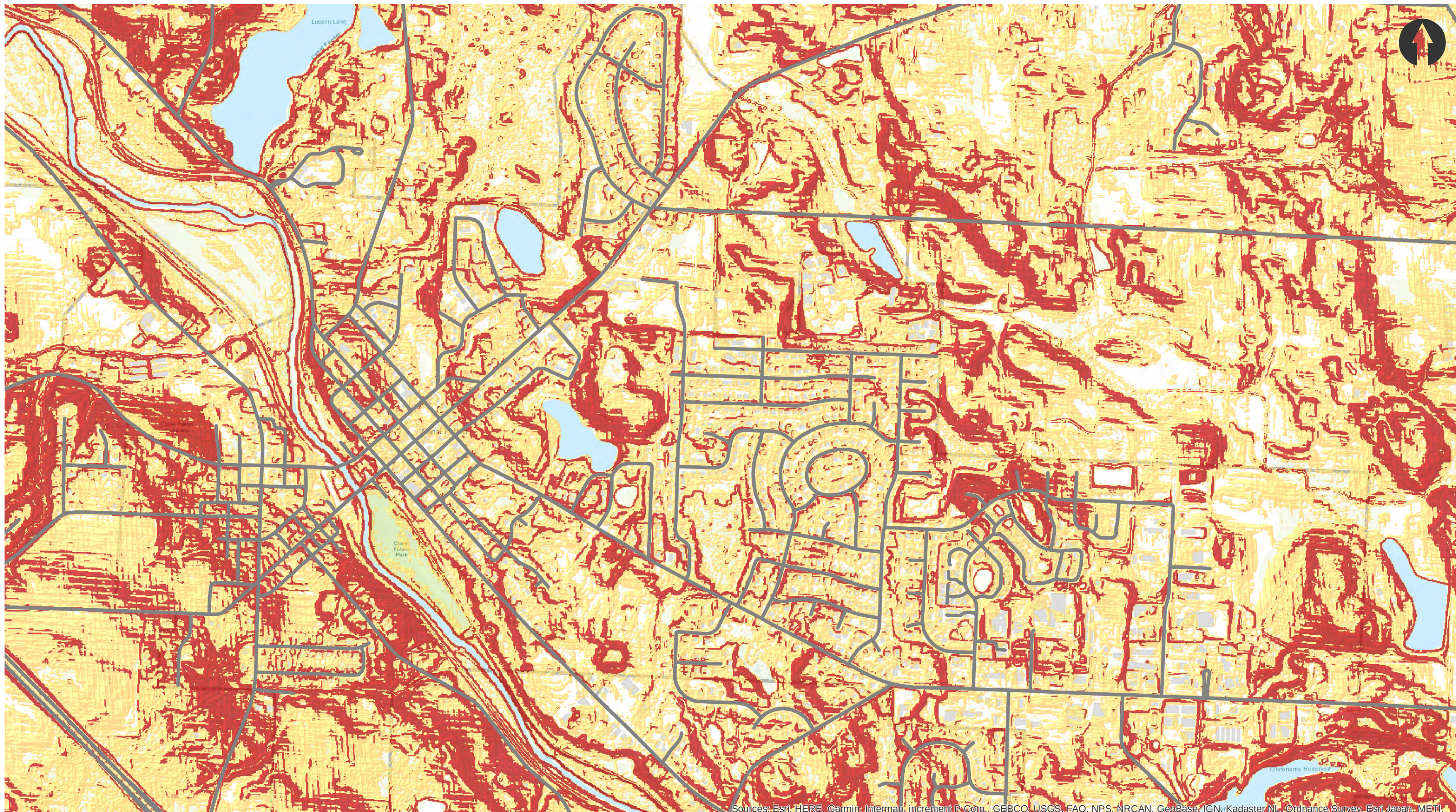
2FT CONTOURS

- 10 FT INDEX CONTOUR
- 2 FT CONTOURS
- STREETS
- CITY LIMITS

CANAL FULTON | ACTIVE TRANSPORTATION & CONNECTIVITY PLAN

1 INCH = 1,000 FEET





Sources: Esri, HERE, Garmin, Intermap, increment P Corp., GEBCO, USGS, FAO, NPS, NRCAN, GeoBase, IGN, Kadaster NL, Ordnance Survey, Esri Japan, METI,

TOPOGRAPHY

NON-ADA SLOPE AREAS

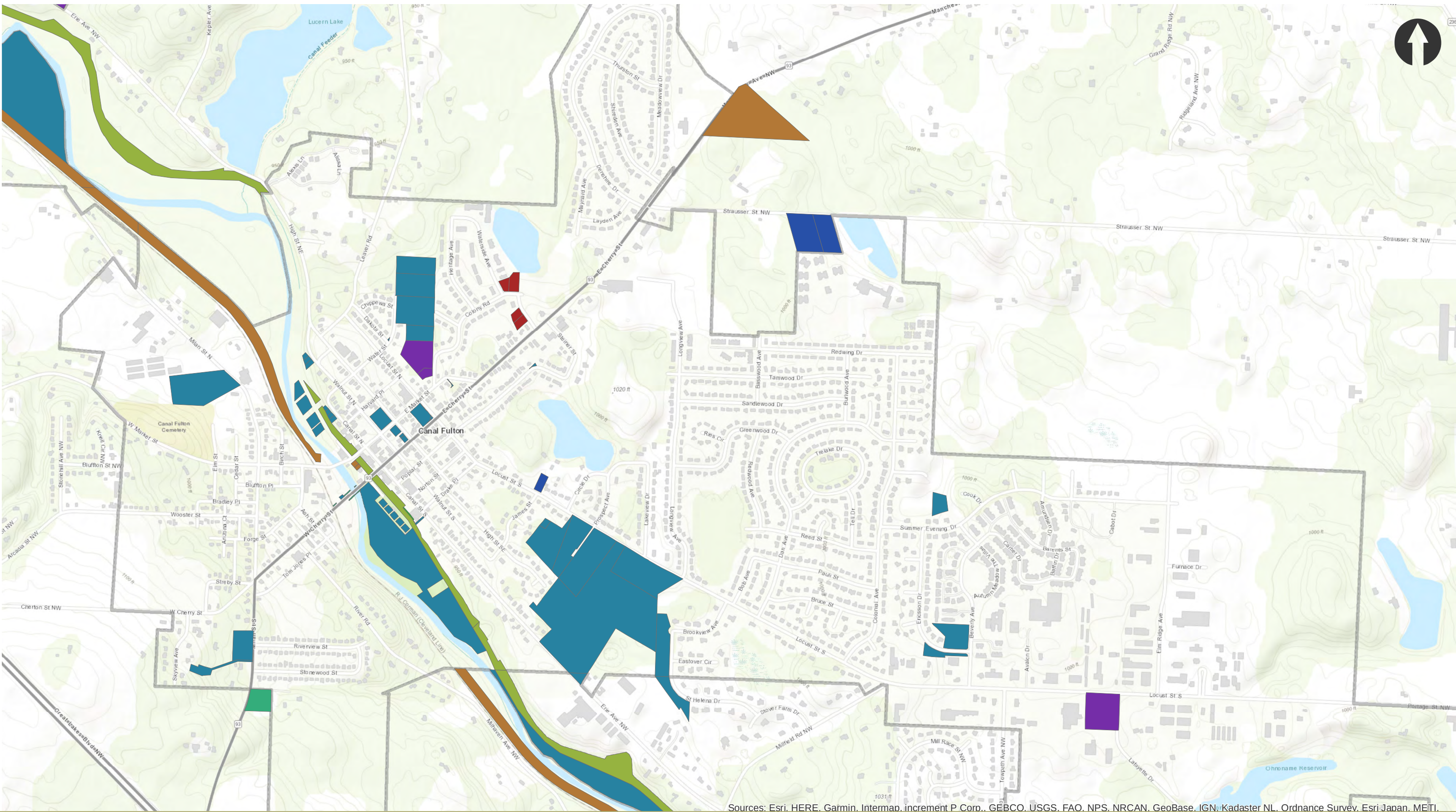
- | | | | |
|---|--------------|---|-------------|
|  | <1% SLOPE |  | STREETS |
|  | 1 - 5% SLOPE |  | CITY LIMITS |
|  | >5% SLOPE | | |

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1 INCH = 1,000 FEET

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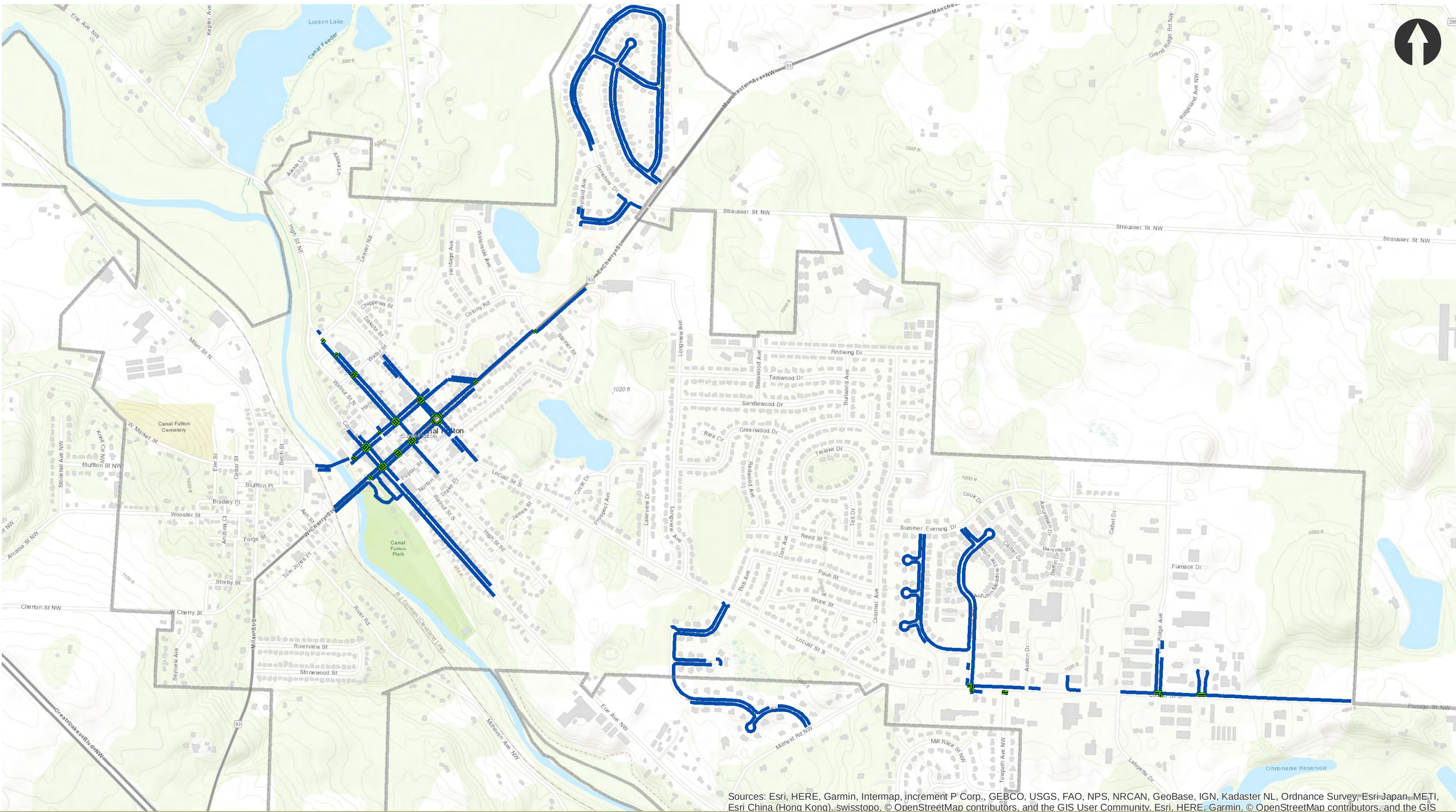
PUBLIC PROPERTY PARCELS (2018)

- | | | |
|---|--|---|
|  BOARD OF EDUCATION LAND |  MUNICIPALITY LAND |  TOWNSHIP LAND |
|  COUNTY LAND |  STATE LAND |  FEDERAL LAND |
|  METRO. HOUSING AUTHORITY LAND |  PARK DISTRICT LAND |  CITY LIMITS |

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& CONNECTIVITY PLAN

1 INCH = 1,000 FEET





EXISTING PEDESTRIAN NETWORK

SIDEWALKS + CROSSWALKS (2018)

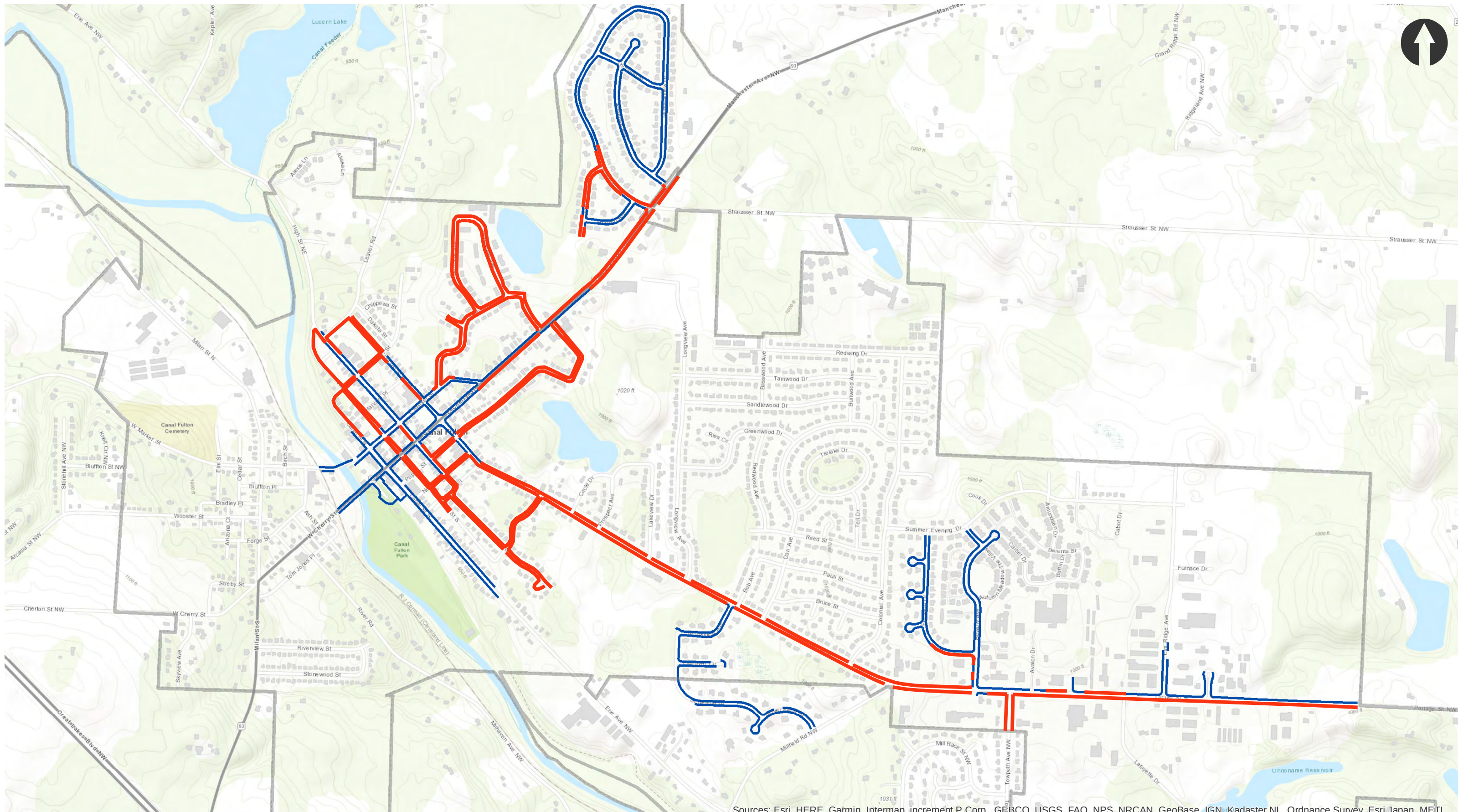
-  SIDEWALKS
-  CROSSWALKS
-  CITY LIMITS

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& CONNECTIVITY PLAN

1 INCH = 1,000 FEET





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EXISTING PEDESTRIAN NETWORK

SIDEWALK GAPS

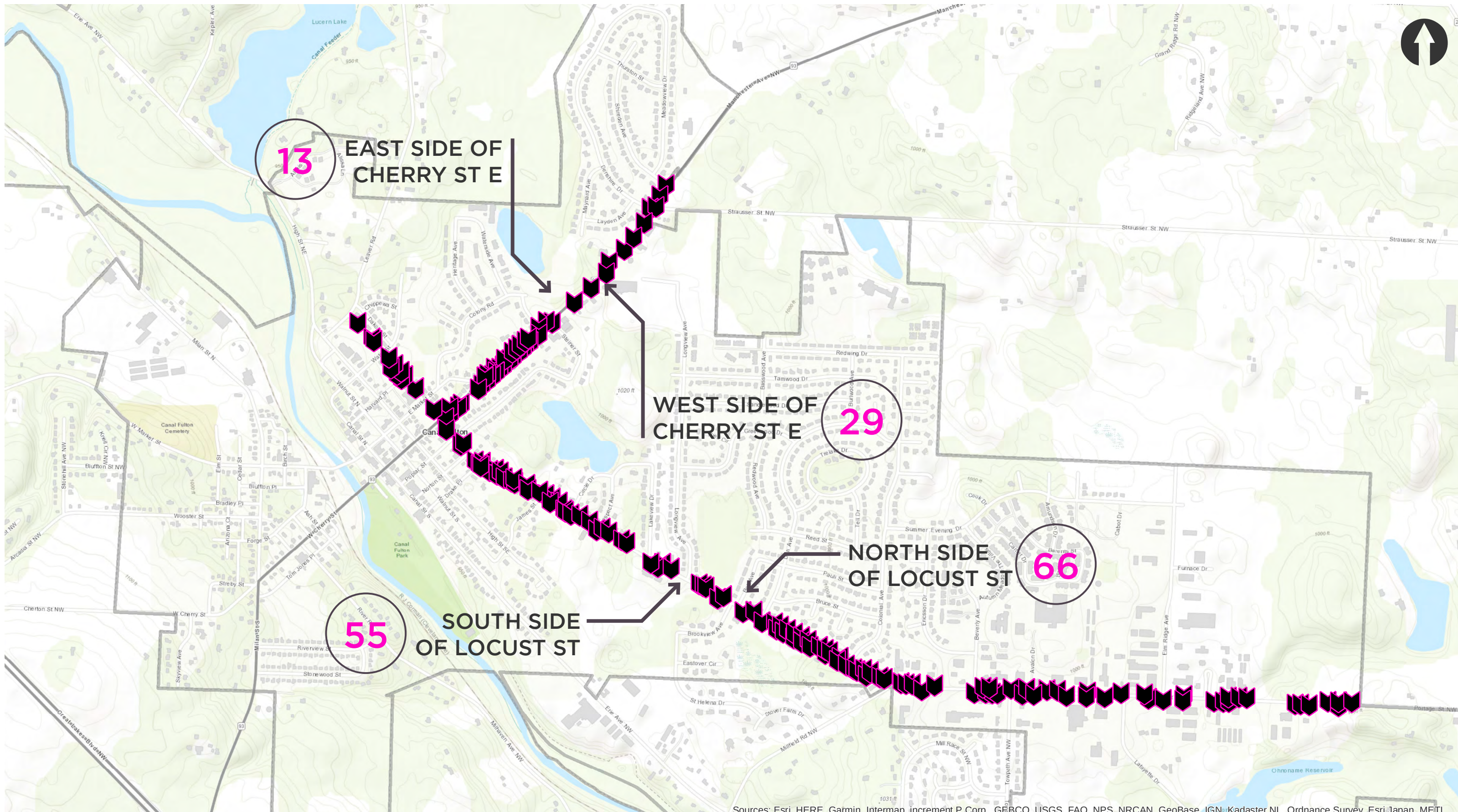
- SIDEWALK GAPS
- SIDEWALKS
- CITY LIMITS

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& CONNECTIVITY PLAN

1 INCH = 1,000 FEET

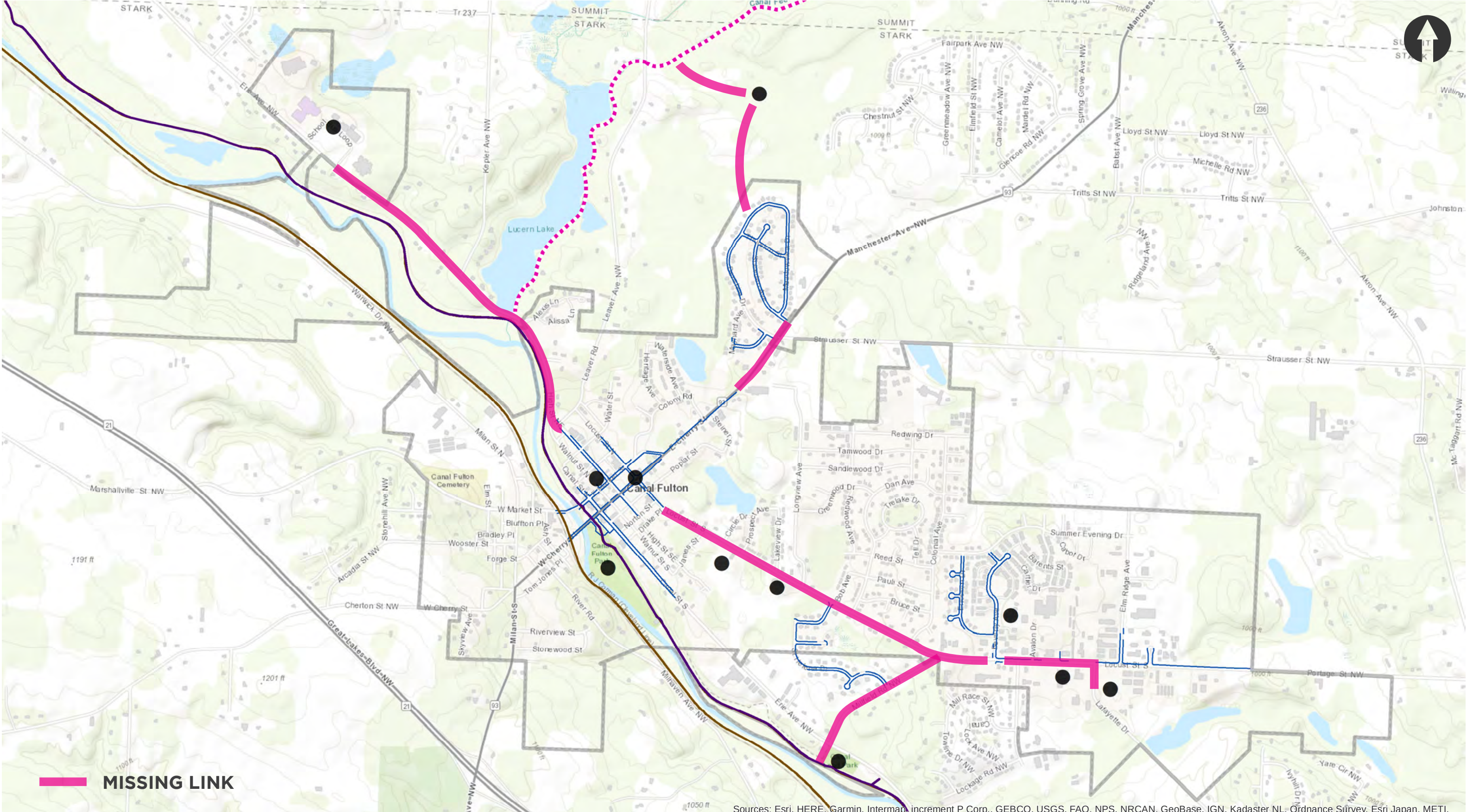
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EXISTING CURB CUTS

NON-INTERSECTION DRIVE CUTS

-  EXISTING CURB CUTS
-  CITY LIMITS



CONNECTIONS + DESTINATIONS

MISSING LINKS

- DESTINATIONS
- ... THE FEEDER CANAL
- TOWPATH TRAIL
- OLDE MUSKINGUM TRAIL
- SIDEWALKS
- CITY LIMITS

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& CONNECTIVITY PLAN

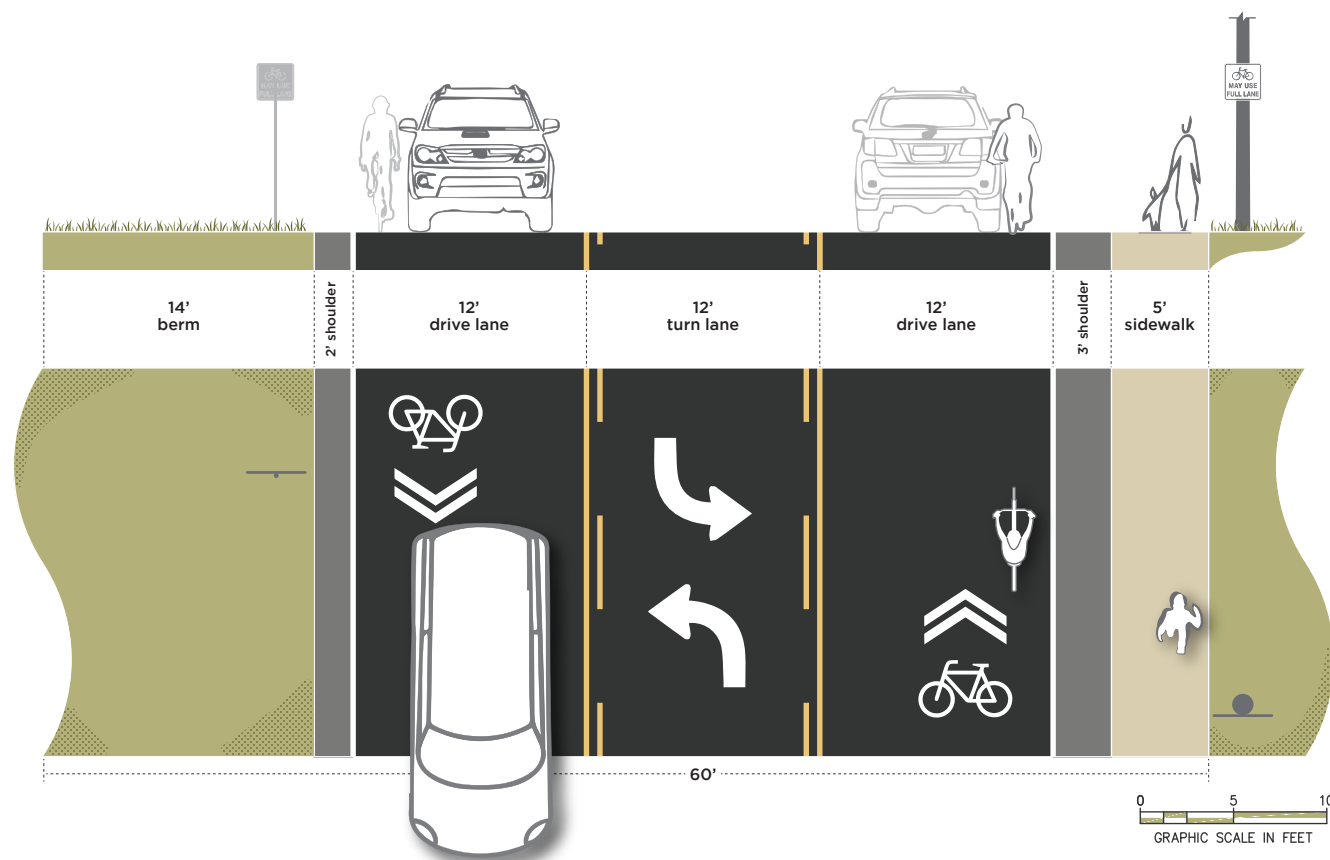
1 INCH = 1,500 FEET

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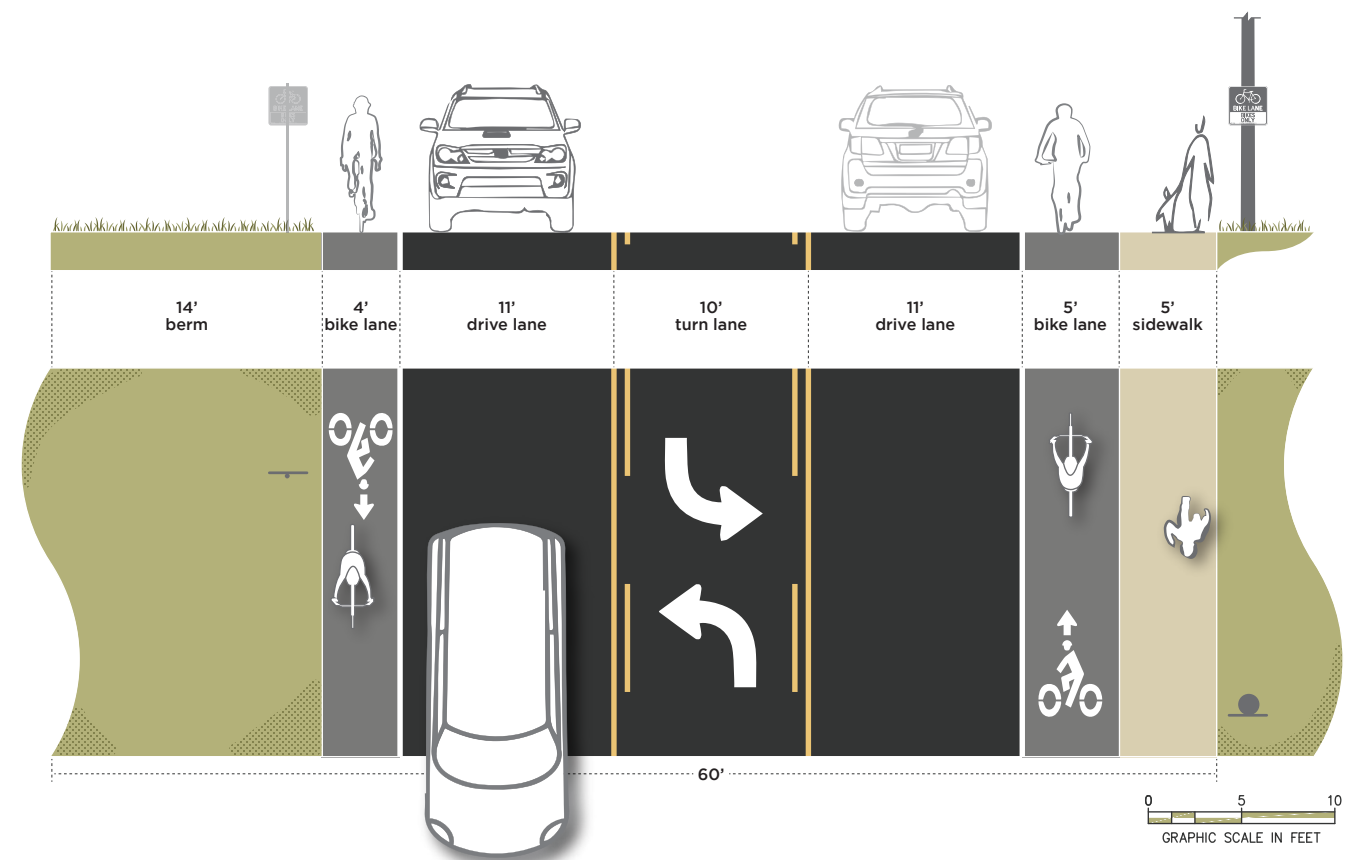
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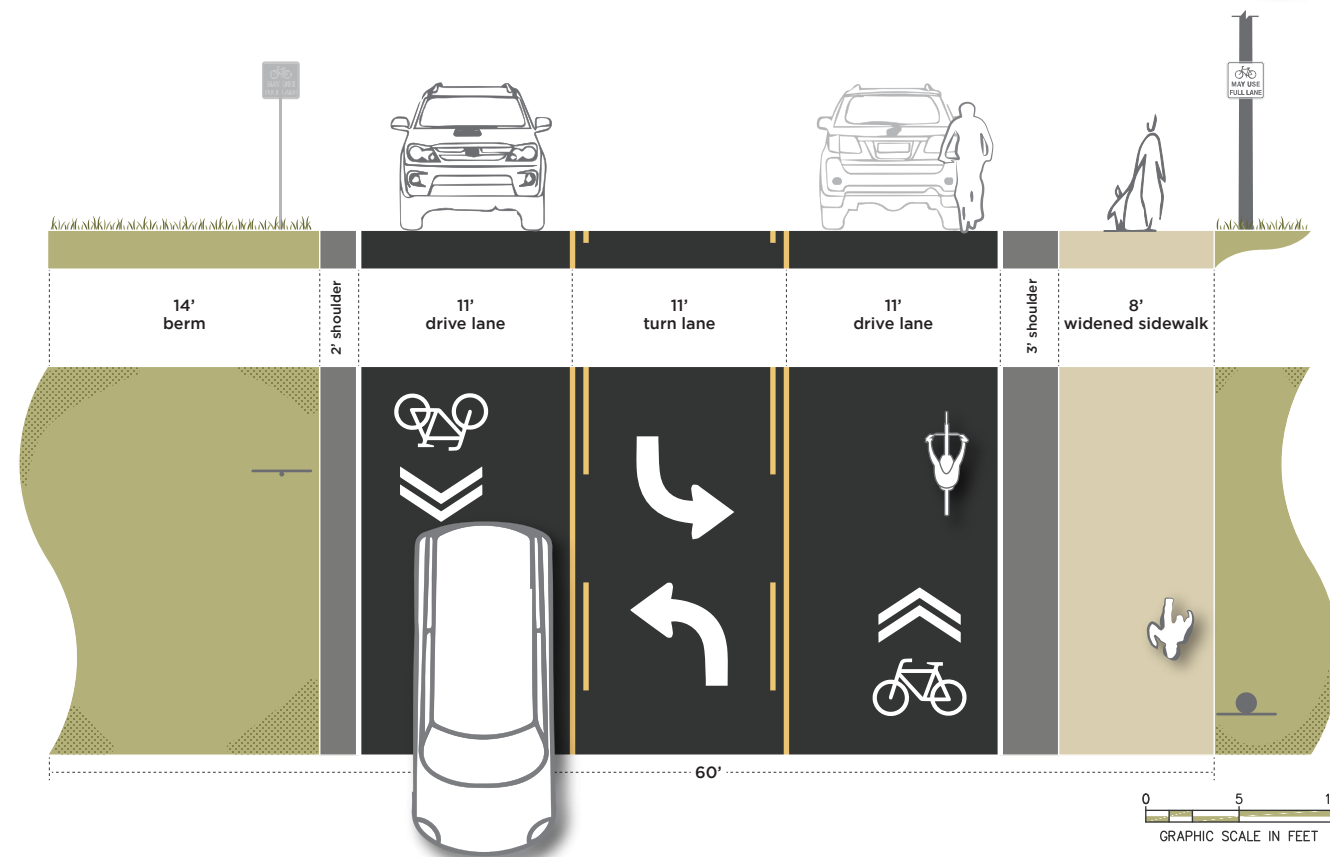
LOCUST STREET PROPOSED SECTIONS



1: SIDEWALK



**2: SIDEWALK
+ BIKE LANES**

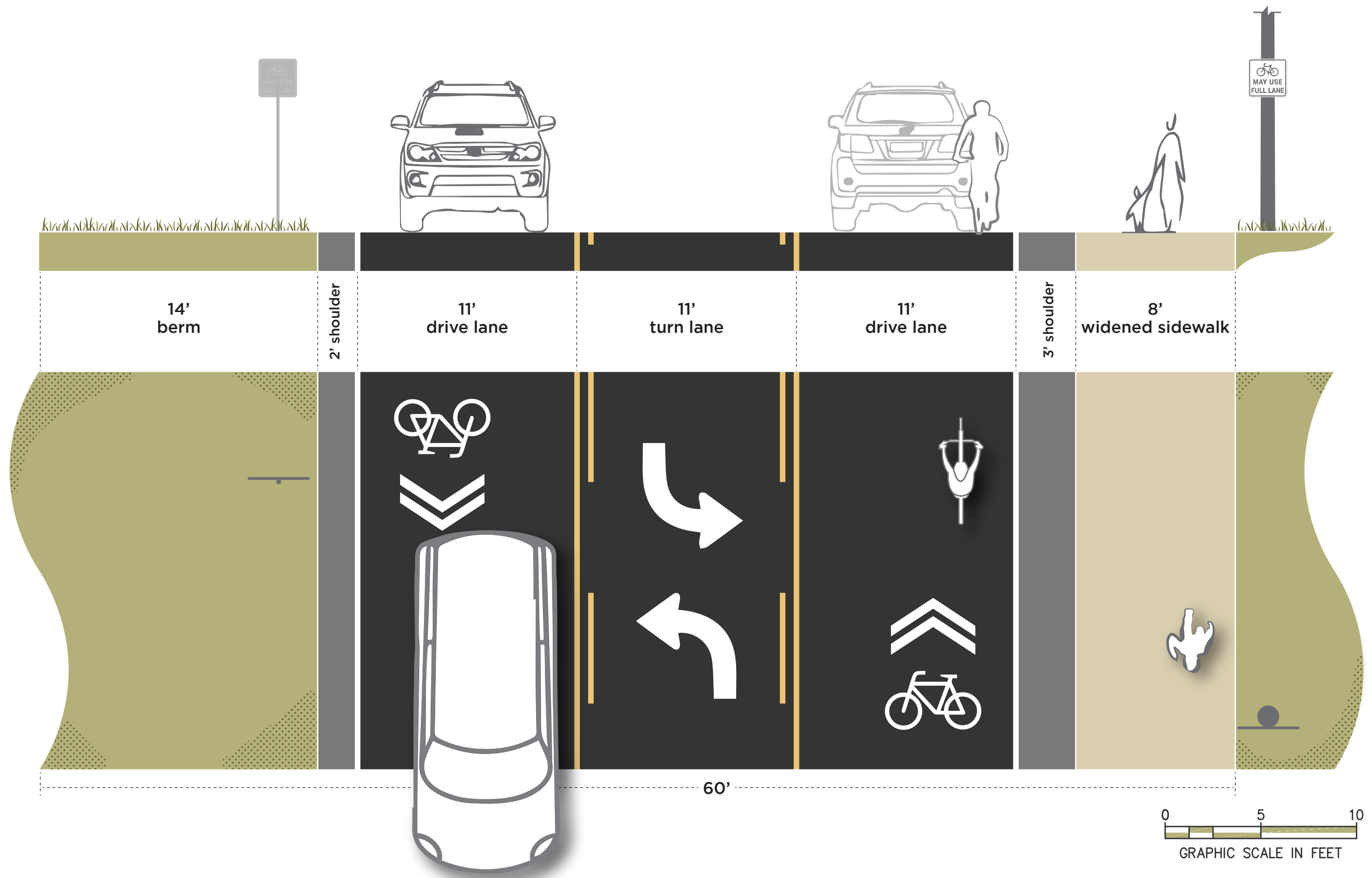


**3: WIDENED
SIDEWALK**

PROPOSED SECTIONS | OPTIONS CONSIDERED



LOCUST STREET RECOMMENDATIONS



PREFERRED SECTION | WIDENED SIDEWALK



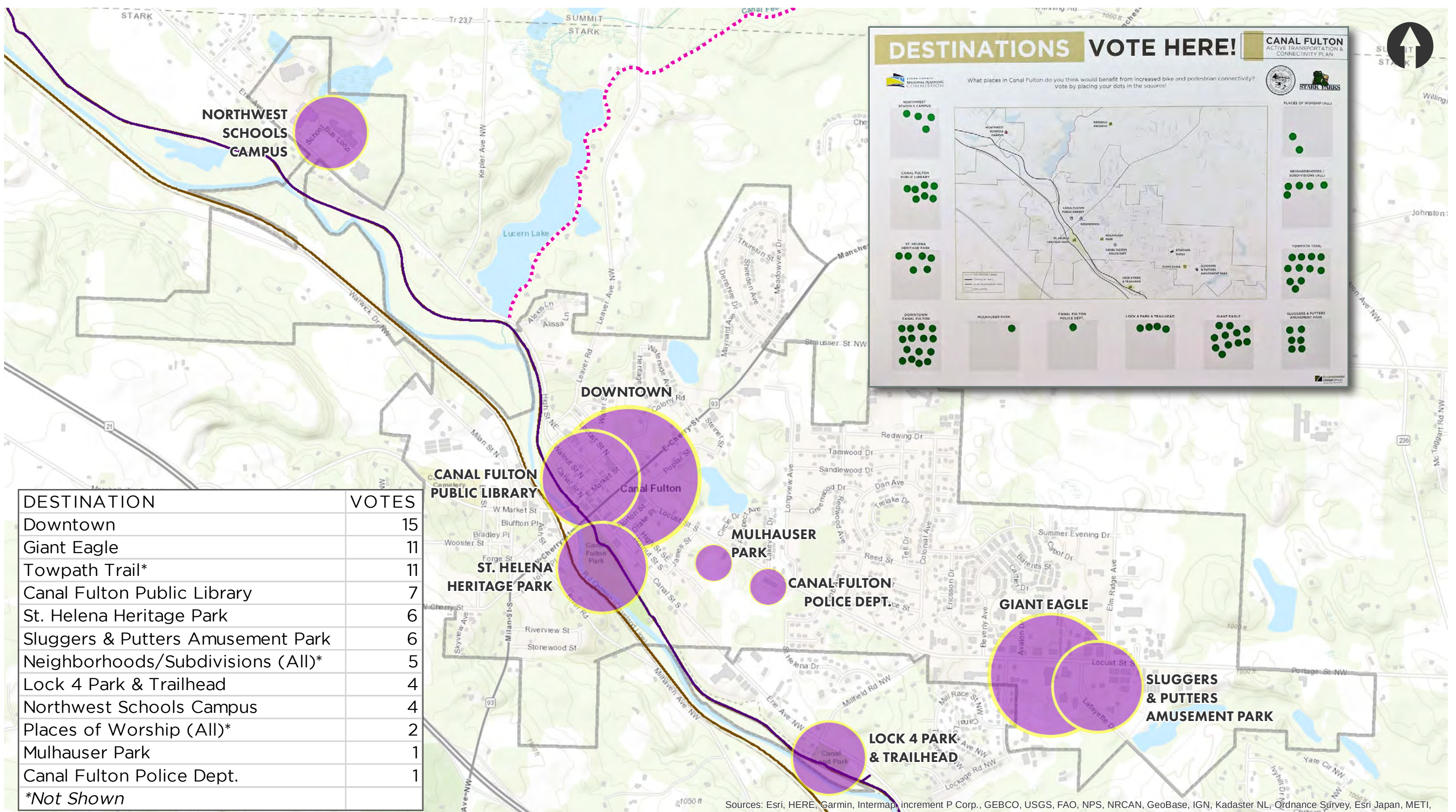
LOCUST STREET | BEFORE



LOCUST STREET | AFTER - WIDENED SIDEWALK



PUBLIC INVOLVEMENT



DESTINATION RANKINGS

PUBLIC VOTING RESULTS

- THE FEEDER CANAL
- TOWPATH TRAIL
- OLDE MUSKINGUM TRAIL
- CITY LIMITS

RECOMMENDED ROUTES LOCATION AND FACILITY TYPES

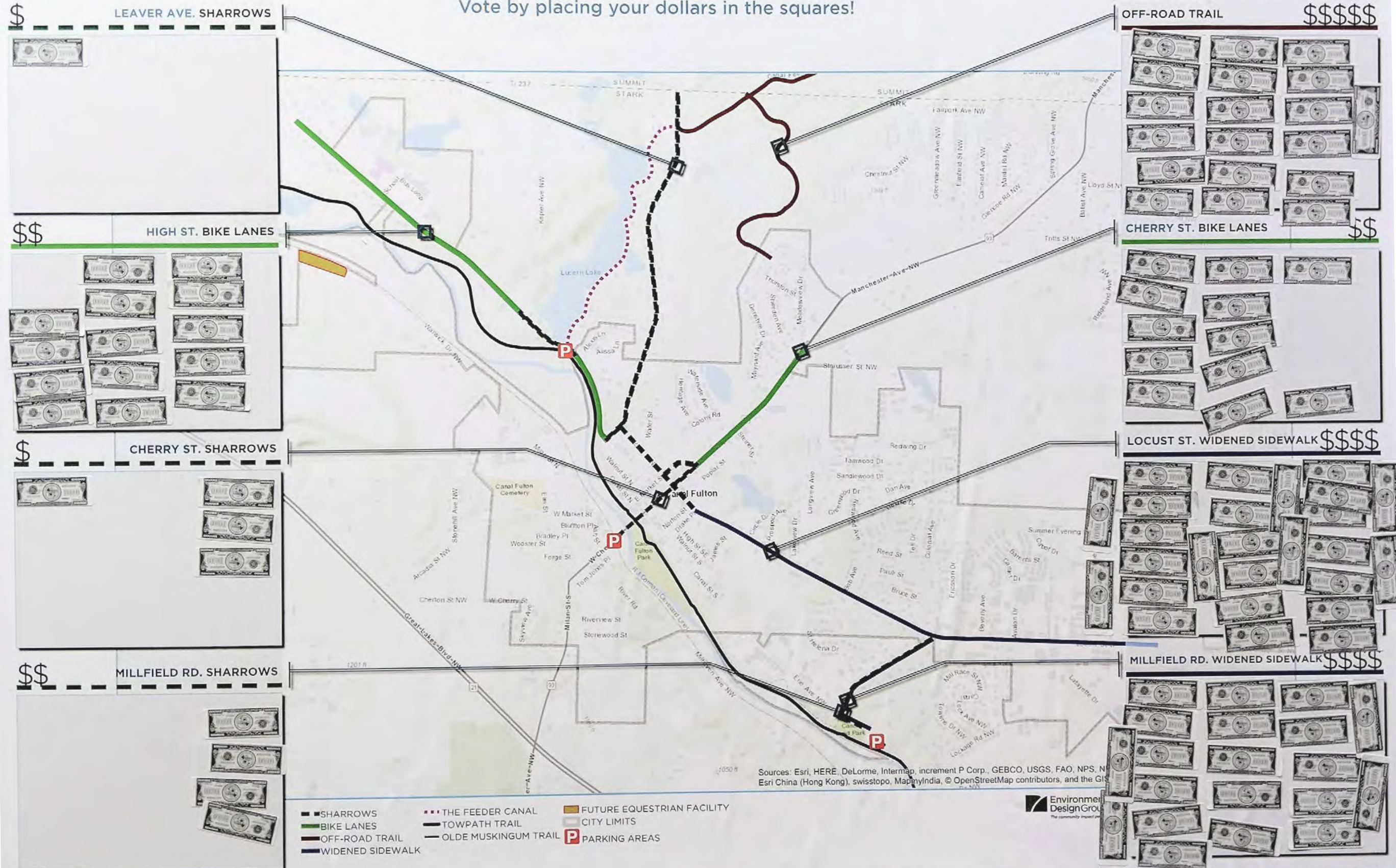
VOTE HERE!

CANAL FULTON ACTIVE TRANSPORTATION & CONNECTIVITY PLAN



What locations and facility type along the alignment would you invest your \$\$\$ to better increase bike and pedestrian connectivity?

Vote by placing your dollars in the squares!



RECOMMENDED ROUTES LOCATION AND FACILITY TYPES

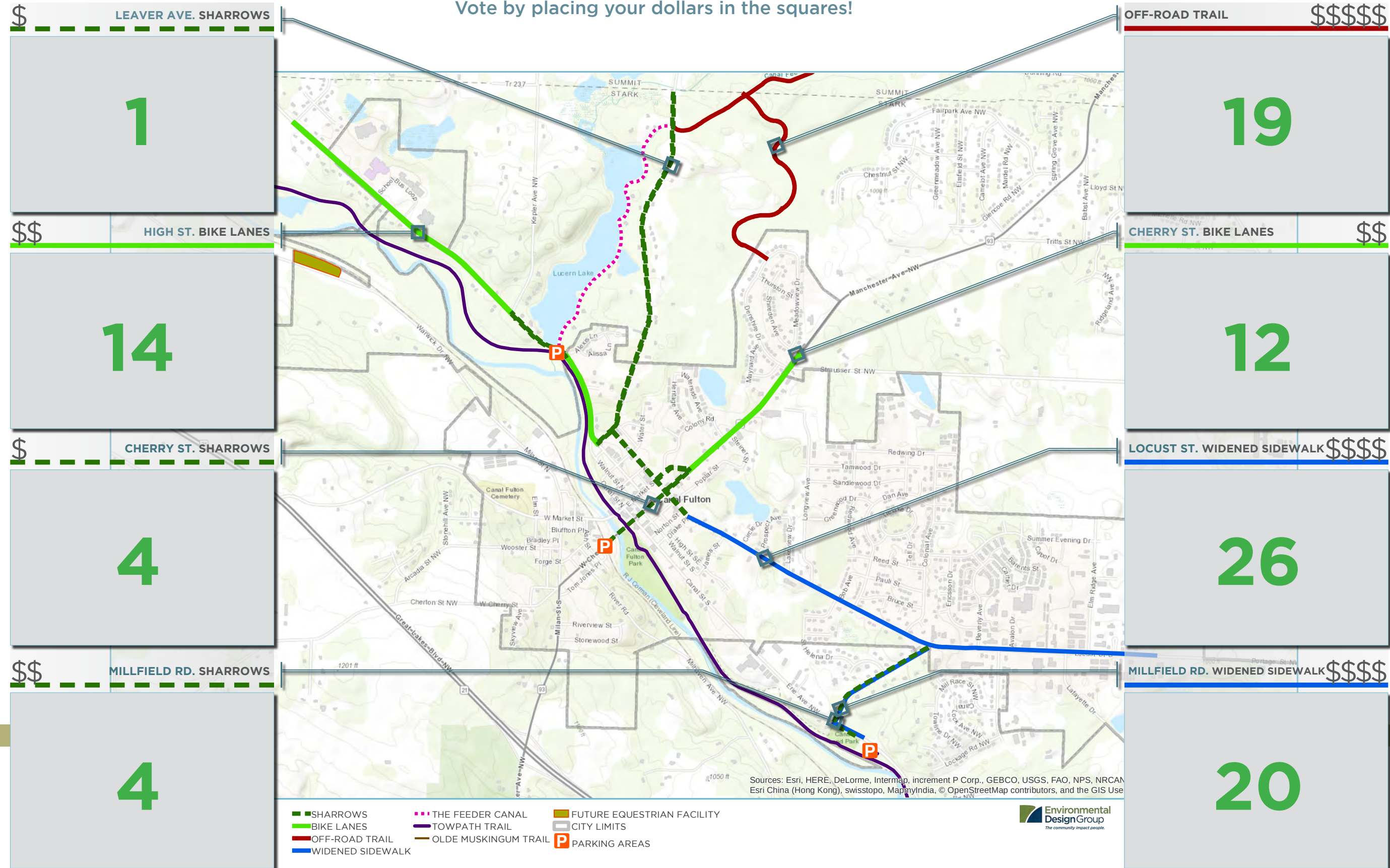
VOTE HERE!

CANAL FULTON
ACTIVE TRANSPORTATION &
CONNECTIVITY PLAN



What locations and facility type along the alignment would you invest your \$\$\$ to better increase bike and pedestrian connectivity?

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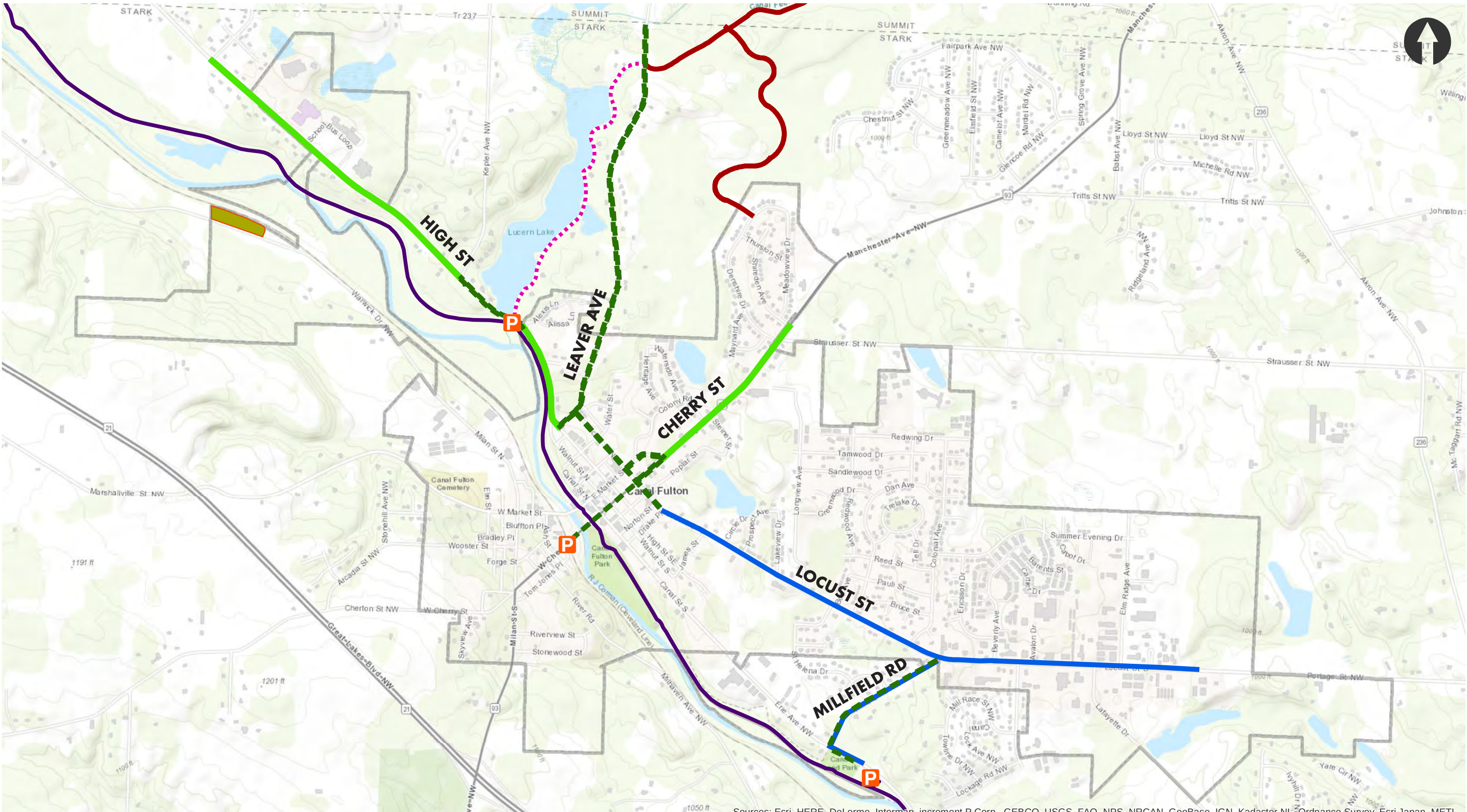
#3

#1

#2

A scenic view of a park with a river, a stone bridge, and a small building in the background. The river flows from the left towards the center, with a small waterfall or drop-off visible. A stone bridge with a metal railing runs across the river. In the background, there is a small building with a gabled roof and a chimney, surrounded by trees and a grassy area. The sky is clear and blue.

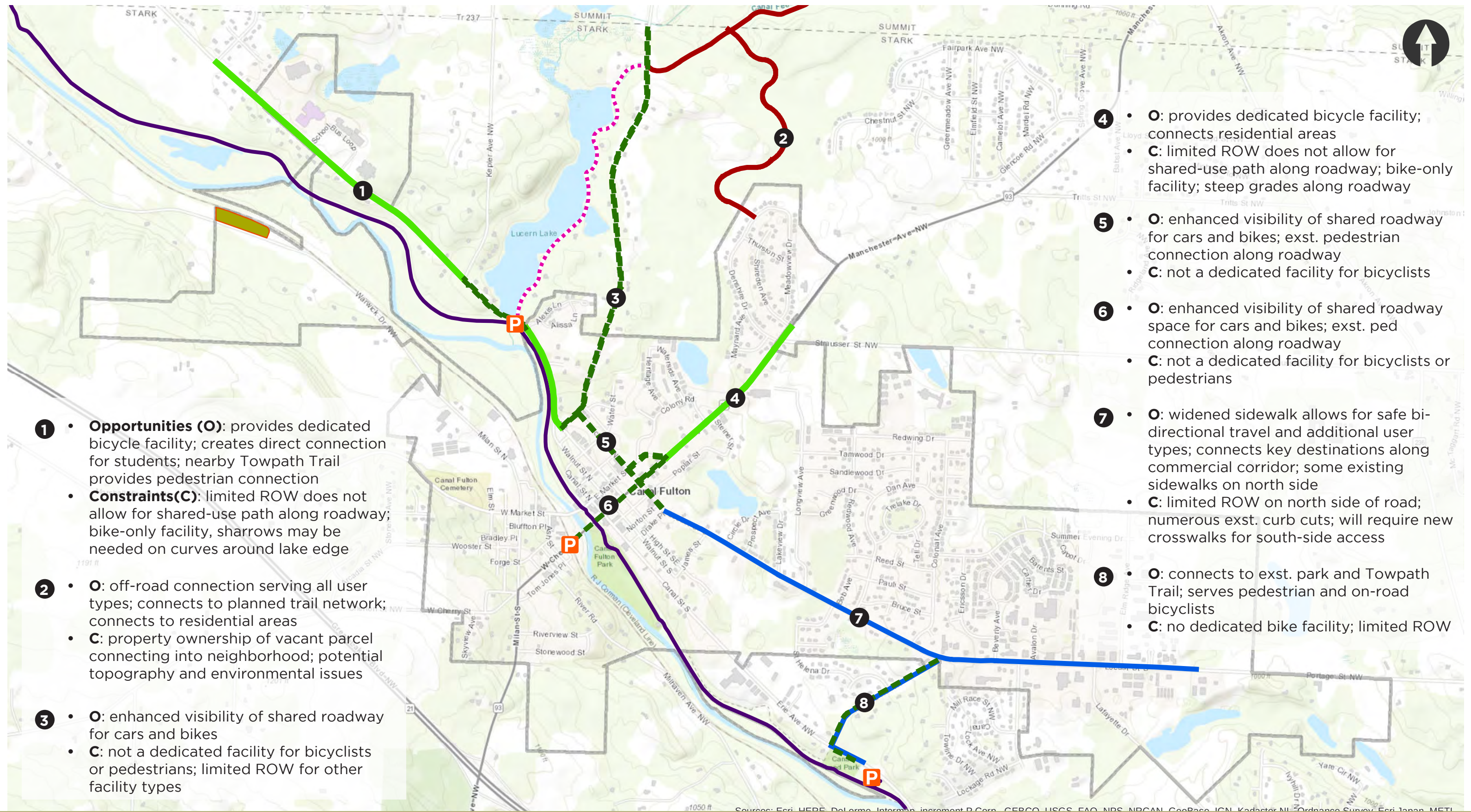
RECOMMENDED ROUTES



RECOMMENDED ROUTES

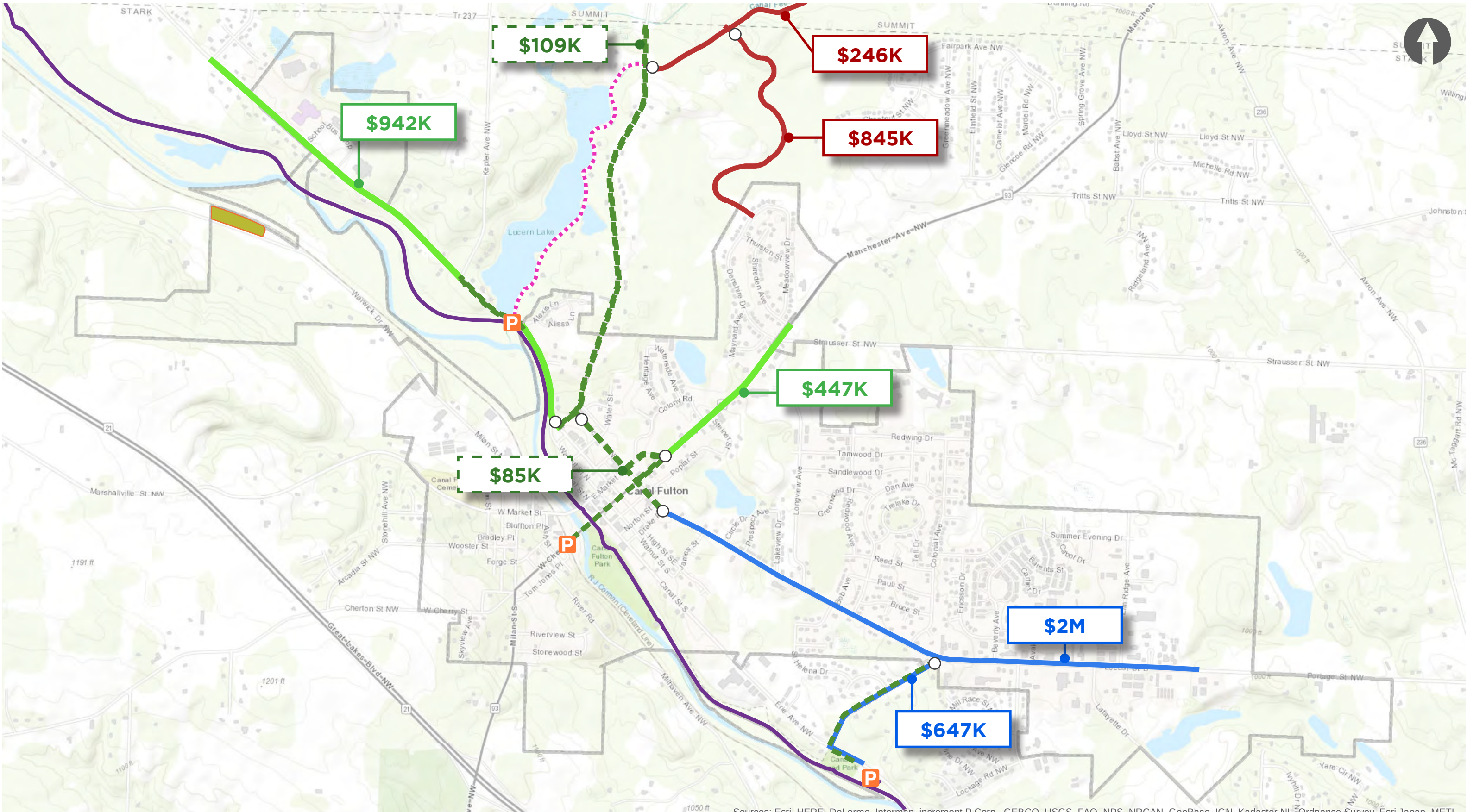
LOCATIONS & TYPES

- SHARROWS
- BIKE LANES
- OFF-ROAD TRAIL
- WIDENED SIDEWALK
- THE FEEDER CANAL
- TOWPATH TRAIL
- OLDE MUSKINGUM TRAIL
- FUTURE EQUESTRIAN FACILITY
- CITY LIMITS
- PARKING AREAS



RECOMMENDED ROUTES

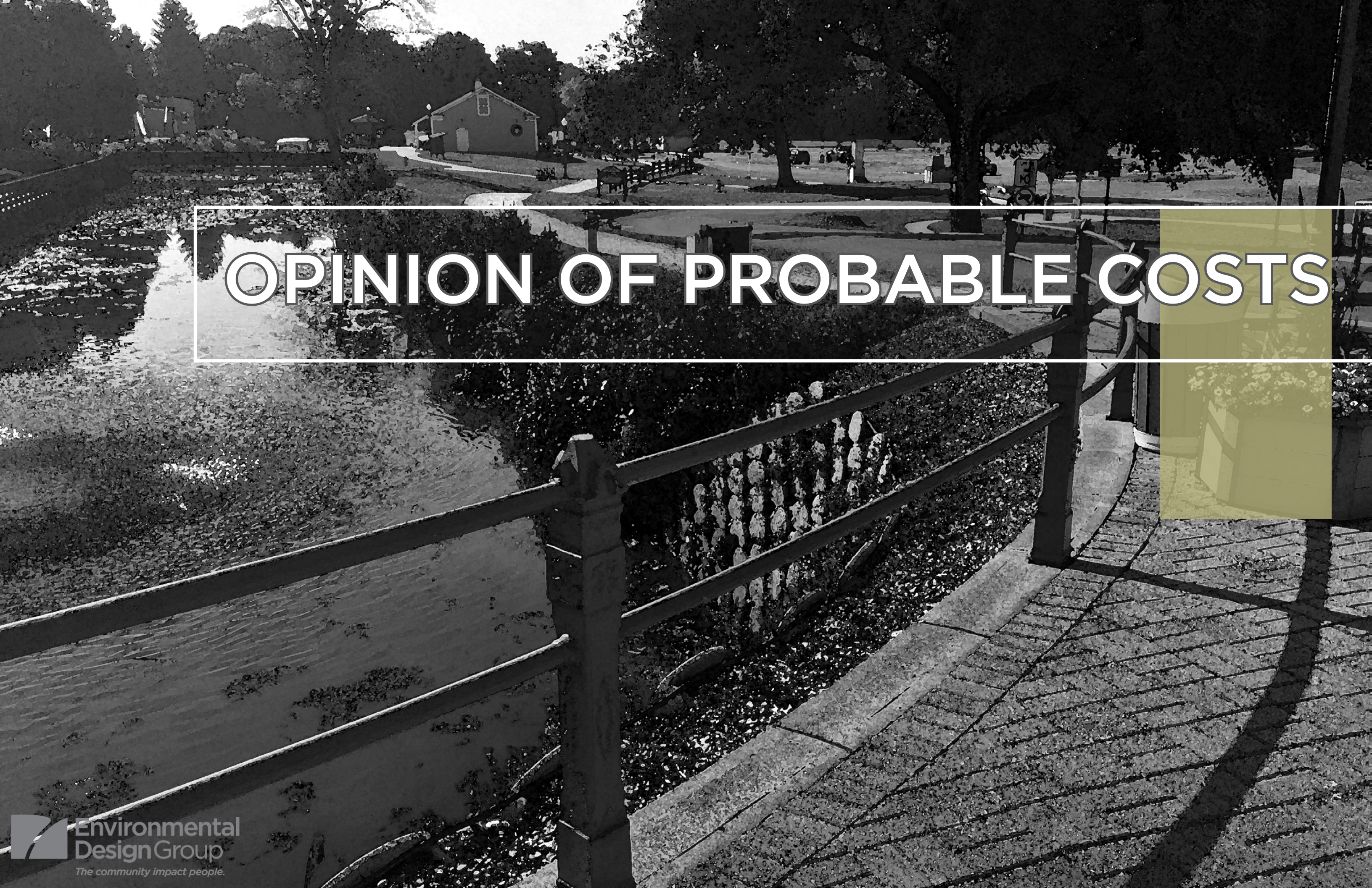
OPPORTUNITIES + CONSTRAINTS



RECOMMENDED ROUTES

LOCATIONS & TYPES

- SHARROWS
- BIKE LANES
- OFF-ROAD TRAIL
- WIDENED SIDEWALK
- THE FEEDER CANAL
- TOWPATH TRAIL
- OLDE MUSKINGUM TRAIL
- FUTURE EQUESTRIAN FACILITY
- CITY LIMITS
- PARKING AREAS



OPINION OF PROBABLE COSTS

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SEGMENT SUMMARY

		TOTAL LENGTH
Sharrows	2019 TOTAL	
	\$108,790.20 LEAVER AVENUE (HIGH ST TO STARK COUNTY LINE)	1.37 MILES
	\$36,115.20 LOCUST STREET (LEAVER AVE TO DRAKE PL)	0.43 MILES
	\$34,678.80 CHERRY STREET (OLDE MUSKINGUM TRAIL TO MARKET ST)	0.41 MILES
	\$14,329.80 MARKET STREET (LOCUST ST TO CHERRY ST)	0.14 MILES
Bike Lanes	\$942,401.52 ERIE AVE & HIGH STREET (SHOEMAKER AVE TO LEAVER AVE)	1.43 MILES
	\$446,939.28 CHERRY STREET (MARKET ST TO SHIREDEN AVE)	0.59 MILES
Sharrows and Widened Sidewalk	\$544,031.37 MILLFIELD ROAD (LOCUST ST TO ERIE AVE)	0.45 MILES
	\$102,960.81 ERIE AVENUE (MILLFIELD RD TO LOCK 4 PARK)	0.11 MILES
Widened Sidewalks	\$1,485,616.79 LOCUST STREET (DRAKE PL TO TOWPATH AVE)	1.16 MILES
	\$508,134.20 LOCUST & PORTAGE STREET (TOWPATH AVE TO 2,000 FT EAST OF LAFAYETTE DR)	0.51 MILES
Trail	\$245,568.83 LEAVER AVE TO COUNTY LINE	0.31 MILES
	\$845,231.63 COUNTY LINE TO MEADOW VIEW DRIVE	0.93 MILES
\$5,314,798.42 ALL SEGMENTS		7.84 MILES

Assumptions:

- 1 . Cost inflation assumptions per ODOT 2019 Construction Cost Estimator Forecast.
- 2 . Costs not included for temporary grading easements.
- 3 . An ecological and environmental study was not performed and any issues are unknown.
- 4 . No public right-of way costs were included.
- 5 . The cost opinion is based on 2018 construction costs.
- 6 . All improvements/projects were assumed to be publicly bid.
- 7 . No traffic studies were performed.
- 8 . Soils are assumed to be structurally suitable.
- 9 . No survey was performed.
- 10 . The scope of work is for conceptual connections and networks. In-depth engineering design was not performed.
- 11 . A general attempt was made to anticipate potential impacts to utilities visible on Google Earth Street View. Non-public utilities within right-of-way were assumed to be moved at utility owners' cost.
- 12 . Drainage needs have been estimated. Existing storm sewers and ditches are assumed to be adequate.
- 13 . No geotechnical studies were performed. Foundation estimates are based on probable subsurface conditions.
- 14 . Non-AASHTO rated boardwalks are assumed to support only pedestrian traffic and the occasional small all terrain vehicle.

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LEAVER AVENUE (HIGH ST TO STARK COUNTY LINE)

SHARROWS

DESCRIPTION		QUANTITY	UNIT	UNIT COST	TOTAL COST
Roadway, and Traffic Control					
A	SHARED LANE MARKING	145	EACH	\$200.00	\$29,000.00
B	SIGN, FLAT SHEET	906	SF	\$20.00	\$18,120.00
C	GROUND MOUNTED SUPPORT, NO. 3 POST	1450	FT	\$10.00	\$14,500.00
Subtotal					\$61,620.00
Construction Survey & Layout					
A	SURVEY AND LAYOUT	1	LS	\$1,000.00	\$1,000.00
B	MAINTAINING TRAFFIC	1	LS	\$1,000.00	\$1,000.00
Subtotal					\$2,000.00
TOTAL					\$63,620.00
CONTINGENCY (20%)					\$12,724.00
GENERAL CONDITIONS (5%)					\$3,817.20
BONDS & INSURANCES (3%)					\$2,290.32
MOBILIZATION/DEMOBILIZATION (1.5%)					\$1,145.16
DESIGN, PERMITTING, AND DOCUMENTS (18%)					\$13,741.92
CONSTRUCTION INSPECTION (15%)					\$11,451.60
2019 TOTAL					\$108,790.20
ODOT COST INFLATOR 2020					\$112,053.91
ODOT COST INFLATOR 2021					\$115,863.74
ODOT COST INFLATOR 2022					\$119,687.24
ODOT COST INFLATOR 2023					\$123,397.55

SHARROWS

LOCUST STREET (LEAVER AVE TO DRAKE PL)

DESCRIPTION		QUANTITY	UNIT	UNIT COST	TOTAL COST
Roadway, and Traffic Control					
A	SHARED LANE MARKING	45	EACH	\$200.00	\$9,000.00
B	SIGN, FLAT SHEET	281	SF	\$20.00	\$5,620.00
C	GROUND MOUNTED SUPPORT, NO. 3 POST	450	FT	\$10.00	\$4,500.00
Subtotal					\$19,120.00
Construction Survey & Layout					
A	SURVEY AND LAYOUT	1	LS	\$1,000.00	\$1,000.00
B	MAINTAINING TRAFFIC	1	LS	\$1,000.00	\$1,000.00
Subtotal					\$2,000.00
TOTAL					\$21,120.00
CONTINGENCY (20%)					\$4,224.00
GENERAL CONDITIONS (5%)					\$1,267.20
BONDS & INSURANCES (3%)					\$760.32
MOBILIZATION/DEMOBILIZATION (1.5%)					\$380.16
DESIGN, PERMITTING, AND DOCUMENTS (18%)					\$4,561.92
CONSTRUCTION INSPECTION (15%)					\$3,801.60
2019 TOTAL					\$36,115.20
ODOT COST INFLATOR 2020					\$37,198.66
ODOT COST INFLATOR 2021					\$38,463.41
ODOT COST INFLATOR 2022					\$39,732.70
ODOT COST INFLATOR 2023					\$40,964.42

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CHERRY STREET (OLDE MUSKINGUM TRAIL TO MARKET ST)

SHARROWS

DESCRIPTION		QUANTITY	UNIT	UNIT COST	TOTAL COST
Roadway, and Traffic Control					
A	SHARED LANE MARKING	43	EACH	\$200.00	\$8,600.00
B	SIGN, FLAT SHEET	269	SF	\$20.00	\$5,380.00
C	GROUND MOUNTED SUPPORT, NO. 3 POST	430	FT	\$10.00	\$4,300.00
Subtotal					
Construction Survey & Layout					
A	SURVEY AND LAYOUT	1	LS	\$1,000.00	\$1,000.00
B	MAINTAINING TRAFFIC	1	LS	\$1,000.00	\$1,000.00
Subtotal					
TOTAL					
CONTINGENCY (20%)					
GENERAL CONDITIONS (5%)					
BONDS & INSURANCES (3%)					
MOBILIZATION/DEMOBILIZATION (1.5%)					
DESIGN, PERMITTING, AND DOCUMENTS (18%)					
CONSTRUCTION INSPECTION (15%)					
2019 TOTAL					
ODOT COST INFLATOR 2020					
ODOT COST INFLATOR 2021					
ODOT COST INFLATOR 2022					
ODOT COST INFLATOR 2023					

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MARKET STREET (LOCUST ST TO CHERRY ST)

SHARROWS

	DESCRIPTION	QUANTITY	UNIT	UNIT COST	TOTAL COST
	Roadway, and Traffic Control				
A	SHARED LANE MARKING	15	EACH	\$200.00	\$3,000.00
B	SIGN, FLAT SHEET	94	SF	\$20.00	\$1,880.00
C	GROUND MOUNTED SUPPORT, NO. 3 POST	150	FT	\$10.00	\$1,500.00
	Subtotal				\$6,380.00
	Construction Survey & Layout				
A	SURVEY AND LAYOUT	1	LS	\$1,000.00	\$1,000.00
B	MAINTAINING TRAFFIC	1	LS	\$1,000.00	\$1,000.00
	Subtotal				\$2,000.00
	TOTAL				\$8,380.00
	CONTINGENCY (20%)				\$1,676.00
	GENERAL CONDITIONS (5%)				\$502.80
	BONDS & INSURANCES (3%)				\$301.68
	MOBILIZATION/DEMOBILIZATION (1.5%)				\$150.84
	DESIGN, PERMITTING, AND DOCUMENTS (18%)				\$1,810.08
	CONSTRUCTION INSPECTION (15%)				\$1,508.40
	2019 TOTAL				\$14,329.80
	ODOT COST INFLATOR 2020				\$14,759.69
	ODOT COST INFLATOR 2021				\$15,261.52
	ODOT COST INFLATOR 2022				\$15,765.15
	ODOT COST INFLATOR 2023				\$16,253.87

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ERIE AVE & HIGH STREET (SHOEMAKER AVE TO LEAVER AVE)

BIKE LANES

	DESCRIPTION	QUANTITY	UNIT	UNIT COST	TOTAL COST
Site Preparation/Demolition					
A	CLEARING AND GRUBBING	1	LS	\$1,000.00	\$1,000.00
B	PAINT REMOVED	15148	FT	\$2.00	\$30,296.00
Subtotal					\$31,296.00
Earthwork					
A	SUBGRADE COMPACTION	3156	SY	\$2.50	\$7,890.00
B	LINEAR GRADING	7574	FT	\$5.00	\$37,870.00
Subtotal					\$45,760.00
Erosion Control					
A	SILT FENCE	7574	FT	\$4.00	\$30,296.00
B	SILT SOCK INLET PROTECTION	14	EACH	\$200.00	\$2,800.00
Subtotal					\$33,096.00
Roadway, and Traffic Control					
A	REMOVAL OF GROUND MOUNTED SIGN AND REERECTION	12	EACH	\$200.00	\$2,400.00
B	SHARED LANE MARKING	25	EACH	\$200.00	\$5,000.00
C	BIKE LANE MARKING	151	EACH	\$200.00	\$30,200.00
D	SIGN, FLAT SHEET	609	SF	\$25.00	\$15,225.00
E	GROUND MOUNTED SUPPORT, NO. 3 POST	1760	FT	\$10.00	\$17,600.00
F	ROAD LINE STRIPING	5.72	MILE	\$2,500.00	\$14,300.00
G	TACK COAT - 0.04 GAL/SY	126	GAL	\$2.00	\$252.00
H	SUBGRADE PREPARATION (ROADWAY PAVING)	3156	SY	\$2.00	\$6,312.00
I	AGGREGATE BASE (T=8") (ROADWAY PAVING)	701	CY	\$60.00	\$42,060.00
J	ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE 2 (448), PG 64-22 (T=1.75") (ROADWAY PAVING)	153	CY	\$175.00	\$26,775.00
K	ASPHALT CONCRETE SURFACE COURSE, TYPE 1 (448), PG 64-22 (T=1.25") (ROADWAY PAVING)	110	CY	\$175.00	\$19,250.00
Subtotal					\$179,374.00
Construction Survey & Layout					
A	SURVEY AND LAYOUT	1	LS	\$10,000.00	\$10,000.00
B	MAINTAINING TRAFFIC	1	LS	\$10,000.00	\$10,000.00
C	MATERIAL TESTING AND INSPECTION (ALLOWANCE)	1	LS	\$2,000.00	\$2,000.00
Subtotal					\$22,000.00
Landscaping					
A	SEEDING AND MULCHING	1683	SY	\$2.00	\$3,366.00
Subtotal					\$3,366.00
Drainage and Utilities					
A	12" CULVERT	3,030	FT	\$75.00	\$227,220.00
B	FIRE HYDRANT REMOVED AND RESET	3	EA	\$3,000.00	\$9,000.00
Subtotal					\$236,220.00
TOTAL					\$551,112.00
CONTINGENCY (20%)					\$110,222.40
GENERAL CONDITIONS (5%)					\$33,066.72
BONDS & INSURANCES (3%)					\$19,840.03
MOBILIZATION/DEMOBILIZATION (1.5%)					\$9,920.02
DESIGN, PERMITTING, AND DOCUMENTS (18%)					\$119,040.19
CONSTRUCTION INSPECTION (15%)					\$99,200.16
2019 TOTAL					\$942,401.52
ODOT COST INFLATOR 2020					\$970,673.57
ODOT COST INFLATOR 2021					\$1,003,676.47
ODOT COST INFLATOR 2022					\$1,036,797.79
ODOT COST INFLATOR 2023					\$1,068,938.52

SCATS | CANAL FULTON

CHERRY STREET (MARKET ST TO SHIREDEN AVE)

BIKE LANES

	DESCRIPTION	QUANTITY	UNIT	UNIT COST	TOTAL COST
Site Preparation/Demolition					
A	CLEARING AND GRUBBING	1	LS	\$1,000.00	\$1,000.00
B	PAINT REMOVED	5080	FT	\$2.00	\$10,160.00
Subtotal					\$11,160.00
Earthwork					
A	BORROW (IMPORT SOIL)	1206	CY	\$35.00	\$42,210.00
B	SUBGRADE COMPACTION	1206	SY	\$2.50	\$3,014.00
C	LINEAR GRADING	3100	FT	\$5.00	\$15,500.00
Subtotal					\$60,724.00
Erosion Control					
A	SILT FENCE	3100	FT	\$4.00	\$12,400.00
B	SILT SOCK INLET PROTECTION	2	EACH	\$200.00	\$400.00
Subtotal					\$12,800.00
Roadway, and Traffic Control					
A	REMOVAL OF GROUND MOUNTED SIGN AND REERECTION	5	EACH	\$200.00	\$1,000.00
B	BIKE LANE MARKING	62	EACH	\$200.00	\$12,400.00
C	SIGN, FLAT SHEET	186	SF	\$25.00	\$4,650.00
D	GROUND MOUNTED SUPPORT, NO. 3 POST	620	FT	\$10.00	\$6,200.00
E	ROAD LINE STRIPING	2.36	MILE	\$2,500.00	\$5,900.00
F	TACK COAT - 0.04 GAL/SY	39	GAL	\$2.00	\$78.00
G	SUBGRADE PREPARATION (ROADWAY PAVING)	1206	SY	\$2.00	\$2,412.00
H	AGGREGATE BASE (T=8") (ROADWAY PAVING)	268	CY	\$60.00	\$16,080.00
I	ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE 2 (448), PG 64-22 (T=1.75") (ROADWAY PAVING)	47	CY	\$175.00	\$8,225.00
J	ASPHALT CONCRETE SURFACE COURSE, TYPE 1 (448), PG 64-22 (T=1.25") (ROADWAY PAVING)	33	CY	\$175.00	\$5,775.00
Subtotal					\$62,720.00
Construction Survey & Layout					
A	SURVEY AND LAYOUT	1	LS	\$8,000.00	\$8,000.00
B	MAINTAINING TRAFFIC	1	LS	\$10,000.00	\$10,000.00
C	MATERIAL TESTING AND INSPECTION (ALLOWANCE)	1	LS	\$2,000.00	\$2,000.00
Subtotal					\$20,000.00
Landscaping					
A	SEEDING AND MULCHING	482	SY	\$2.00	\$964.00
Subtotal					\$964.00
Drainage and Utilities					
A	12" CULVERT	1,240	FT	\$75.00	\$93,000.00
Subtotal					\$93,000.00
TOTAL					\$261,368.00
CONTINGENCY (20%)					\$52,273.60
GENERAL CONDITIONS (5%)					\$15,682.08
BONDS & INSURANCES (3%)					\$9,409.25
MOBILIZATION/DEMOBILIZATION (1.5%)					\$4,704.62
DESIGN, PERMITTING, AND DOCUMENTS (18%)					\$56,455.49
CONSTRUCTION INSPECTION (15%)					\$47,046.24
2019 TOTAL					\$446,939.28
ODOT COST INFLATOR 2020					\$460,347.46
ODOT COST INFLATOR 2021					\$475,999.27
ODOT COST INFLATOR 2022					\$491,707.25
ODOT COST INFLATOR 2023					\$506,950.17

SCATS | CANAL FULTON

MILLFIELD ROAD (LOCUST ST TO ERIE AVE)

SHARROWS AND WIDENED SIDEWALK

	DESCRIPTION	QUANTITY	UNIT	UNIT COST	TOTAL COST
Site Preparation/Demolition					
A	CLEARING AND GRUBBING	1	LS	\$15,000.00	\$15,000.00
Subtotal					\$15,000.00
Earthwork					
A	EXCAVATION & EMBANKMENT	781	CY	\$18.00	\$14,058.00
B	TOPSOIL STRIPPING AND STOCKPILING	390	CY	\$12.00	\$4,680.00
C	BORROW (IMPORT SOIL)	422	CY	\$35.00	\$14,770.00
D	SUBGRADE COMPACTION	2342	SY	\$2.50	\$5,855.00
Subtotal					\$39,363.00
Erosion Control					
A	SILT FENCE	2385	FT	\$4.00	\$9,540.00
B	SILT SOCK INLET PROTECTION	7	EACH	\$200.00	\$1,400.00
Subtotal					\$10,940.00
Trail, Sidepath, and Widened Sidewalk Surface					
A	SUBGRADE PREPARATION	2342	SY	\$2.00	\$4,684.00
B	AGGREGATE BASE (T=6")	390	CY	\$60.00	\$23,400.00
C	6" CONCRETE WALK	18736	SF	\$8.00	\$149,888.00
D	CONCRETE CURB RAMP, ADA ACCESSIBLE	2	EACH	\$1,200.00	\$2,400.00
Subtotal					\$180,372.00
Roadway, and Traffic Control					
A	REMOVAL OF GROUND MOUNTED SIGN AND REERECTION	1	EACH	\$200.00	\$200.00
B	SHARED LANE MARKING	48	EACH	\$200.00	\$9,600.00
C	SIGN, FLAT SHEET	300	SF	\$20.00	\$6,000.00
D	GROUND MOUNTED SUPPORT, NO. 3 POST	480	FT	\$10.00	\$4,800.00
E	PAINTED CROSSWALK LINE, TYPE 1	153	FT	\$15.00	\$2,295.00
Subtotal					\$22,895.00
Construction Survey & Layout					
A	SURVEY AND LAYOUT	1	LS	\$2,500.00	\$2,500.00
B	MAINTAINING TRAFFIC	1	LS	\$2,500.00	\$2,500.00
C	MATERIAL TESTING AND INSPECTION (ALLOWANCE)	1	LS	\$1,000.00	\$1,000.00
Subtotal					\$6,000.00
Landscaping					
A	PLACING STOCKPILED TOPSOIL	390	CY	\$8.00	\$3,120.00
B	SEEDING AND MULCHING	1041	SY	\$2.00	\$2,082.00
Subtotal					\$5,202.00
Drainage and Utilities					
A	12" CULVERT	485	FT	\$75.00	\$36,375.00
B	REMOVE AND REERECT EXISTING LUMINAIRE	1	LS	\$2,000.00	\$2,000.00
Subtotal					\$38,375.00
TOTAL					\$318,147.00
CONTINGENCY (20%)					\$63,629.40
GENERAL CONDITIONS (5%)					\$19,088.82
BONDS & INSURANCES (3%)					\$11,453.29
MOBILIZATION/DEMOBILIZATION (1.5%)					\$5,726.65
DESIGN, PERMITTING, AND DOCUMENTS (18%)					\$68,719.75
CONSTRUCTION INSPECTION (15%)					\$57,266.46
2019 TOTAL					\$544,031.37
ODOT COST INFLATOR 2020					\$560,352.31
ODOT COST INFLATOR 2021					\$579,404.29
ODOT COST INFLATOR 2022					\$598,524.63
ODOT COST INFLATOR 2023					\$617,078.89

SCATS | CANAL FULTON

ERIE AVENUE (MILLFIELD RD TO LOCK 4 PARK)

SHARROWS AND WIDENED SIDEWALK

	DESCRIPTION	QUANTITY	UNIT	UNIT COST	TOTAL COST
Site Preparation/Demolition					
A	CLEARING AND GRUBBING	1	LS	\$15,000.00	\$15,000.00
Subtotal					\$15,000.00
Earthwork					
A	EXCAVATION & EMBANKMENT	114	CY	\$18.00	\$2,052.00
B	TOPSOIL STRIPPING AND STOCKPILING	57	CY	\$12.00	\$684.00
C	SUBGRADE COMPACTION	342	SY	\$2.50	\$855.00
Subtotal					\$3,591.00
Erosion Control					
A	SILT FENCE	342	FT	\$4.00	\$1,368.00
Subtotal					\$1,368.00
Trail, Sidepath, and Widened Sidewalk Surface					
A	SUBGRADE PREPARATION	342	SY	\$2.00	\$684.00
B	AGGREGATE BASE (T=6")	57	CY	\$60.00	\$3,420.00
C	6" CONCRETE WALK	2736	SF	\$8.00	\$21,888.00
Subtotal					\$25,992.00
Roadway, and Traffic Control					
A	REMOVAL OF GROUND MOUNTED SIGN AND REERECTION	1	EACH	\$200.00	\$200.00
B	SHARED LANE MARKING	12	EACH	\$200.00	\$2,400.00
C	SIGN, FLAT SHEET	75	SF	\$20.00	\$1,500.00
D	GROUND MOUNTED SUPPORT, NO. 3 POST	120	FT	\$10.00	\$1,200.00
Subtotal					\$5,300.00
Construction Survey & Layout					
A	SURVEY AND LAYOUT	1	LS	\$2,500.00	\$2,500.00
B	MAINTAINING TRAFFIC	1	LS	\$2,000.00	\$2,000.00
C	MATERIAL TESTING AND INSPECTION (ALLOWANCE)	1	LS	\$2,000.00	\$2,000.00
Subtotal					\$6,500.00
Landscaping					
A	PLACING STOCKPILED TOPSOIL	57	CY	\$8.00	\$456.00
B	SEEDING AND MULCHING	152	SY	\$2.00	\$304.00
Subtotal					\$760.00
Drainage and Utilities					
A	12" CULVERT		FT	\$75.00	\$0.00
B	ADJUST MANHOLE TO GRADE	1	EA	\$1,700.00	\$1,700.00
Subtotal					\$1,700.00
TOTAL					\$60,211.00
CONTINGENCY (20%)					\$12,042.20
GENERAL CONDITIONS (5%)					\$3,612.66
BONDS & INSURANCES (3%)					\$2,167.60
MOBILIZATION/DEMOBILIZATION (1.5%)					\$1,083.80
DESIGN, PERMITTING, AND DOCUMENTS (18%)					\$13,005.58
CONSTRUCTION INSPECTION (15%)					\$10,837.98
2019 TOTAL					\$102,960.81
ODOT COST INFLATOR 2020					\$106,049.63
ODOT COST INFLATOR 2021					\$109,655.32
ODOT COST INFLATOR 2022					\$113,273.95
ODOT COST INFLATOR 2023					\$116,785.44

SCATS | CANAL FULTON

LOCUST STREET (DRAKE PL TO TOWPATH AVE)

WIDENED SIDEWALK

	DESCRIPTION	QUANTITY	UNIT	UNIT COST	TOTAL COST
Site Preparation/Demolition					
	A . CLEARING AND GRUBBING	1	LS	\$15,000.00	\$15,000.00
	B . CURB REMOVAL	40	FT	\$5.00	\$200.00
Subtotal					\$15,200.00
Earthwork					
	A . TOPSOIL STRIPPING AND STOCKPILING	1945	CY	\$12.00	\$23,340.00
	B . BORROW (IMPORT SOIL)	114	CY	\$35.00	\$3,990.00
	C . SUBGRADE COMPACTION	5936	SY	\$2.50	\$14,840.00
	D . LINEAR GRADING	6098	FT	\$5.00	\$30,490.00
Subtotal					\$72,660.00
Erosion Control					
	A . SLOPE MATTING PROTECTION	315	SY	\$4.25	\$1,338.75
	B . SILT FENCE	6098	FT	\$4.00	\$24,392.00
	C . SILT SOCK INLET PROTECTION	23	EACH	\$200.00	\$4,600.00
Subtotal					\$30,330.75
Trail, Sidepath, and Widened Sidewalk Surface					
	A . SUBGRADE PREPARATION	5936	SY	\$2.00	\$11,872.00
	B . AGGREGATE BASE (T=6")	1945	CY	\$60.00	\$116,700.00
	C . 6" CONCRETE WALK	47328	SF	\$8.00	\$378,624.00
	D . CONCRETE CURB RAMP, ADA ACCESSIBLE	5	EACH	\$1,200.00	\$6,000.00
Subtotal					\$513,196.00
Roadway, and Traffic Control					
	A . REMOVAL OF GROUND MOUNTED SIGN AND REERECTION	14	EACH	\$200.00	\$2,800.00
	B . PAINTED CROSSWALK LINE, TYPE 1	629	FT	\$15.00	\$9,435.00
Subtotal					\$12,235.00
Structures					
	A . AASHTO/ODOT COMPLIANT H15 RATED PREFABRICATED BOARDWALK, 14' CLEAR HORIZONTAL WIDTH	80	FT	\$900.00	\$72,000.00
Subtotal					\$72,000.00
Construction Survey & Layout					
	A . SURVEY AND LAYOUT	1	LS	\$8,000.00	\$8,000.00
	B . MAINTAINING TRAFFIC	1	LS	\$5,000.00	\$5,000.00
	C . MATERIAL TESTING AND INSPECTION (ALLOWANCE)	1	LS	\$5,000.00	\$5,000.00
Subtotal					\$18,000.00
Landscaping					
	A . PLACING STOCKPILED TOPSOIL	1945	CY	\$8.00	\$15,560.00
	B . SEEDING AND MULCHING	3025	SY	\$2.00	\$6,050.00
Subtotal					\$21,610.00
Amenities					
	A . BUSINESS SIGN REMOVE, STORE, AND REPLACED	2	LS	\$8,000.00	\$16,000.00
Subtotal					\$16,000.00
Drainage and Utilities					
	A . 12" CULVERT	182	FT	\$75.00	\$13,650.00
	B . REMOVE AND RESET CONCRETE CURB INLET OR CATCH BASIN OR ADJUST MANHOLE TO GRADE	6	EA	\$1,700.00	\$10,200.00
	C . ADJUST MANHOLE TO GRADE	1	EA	\$1,700.00	\$1,700.00
	D . REMOVE AND REERECT EXISTING UTILITY POLE OR LUMINAIRE	14	LS	\$5,000.00	\$70,000.00
	E . REMOVE AND REERECT EXISTING LUMINAIRE	1	LS	\$2,000.00	\$2,000.00
Subtotal					\$97,550.00
TOTAL					\$868,781.75
CONTINGENCY (20%)					\$173,756.35
GENERAL CONDITIONS (5%)					\$52,126.91
BONDS & INSURANCES (3%)					\$31,276.14
MOBILIZATION/DEMOBILIZATION (1.5%)					\$15,638.07
DESIGN, PERMITTING, AND DOCUMENTS (18%)					\$187,656.86
CONSTRUCTION INSPECTION (15%)					\$156,380.72
2019 TOTAL					\$1,485,616.79
ODOT COST INFLATOR 2020					\$1,530,185.30
ODOT COST INFLATOR 2021					\$1,582,211.60
ODOT COST INFLATOR 2022					\$1,634,424.58
ODOT COST INFLATOR 2023					\$1,685,091.74

SCATS | CANAL FULTON

LOCUST & PORTAGE STREET (TOWPATH AVE TO 2,000 FT EAST OF LAFAYETTE DR)

WIDENED SIDEWALK

	DESCRIPTION	QUANTITY	UNIT	UNIT COST	TOTAL COST
Site Preparation/Demolition					
	A . CLEARING AND GRUBBING	1	LS	\$2,000.00	\$2,000.00
	B . CURB REMOVAL	80	FT	\$5.00	\$400.00
Subtotal					\$2,400.00
Earthwork					
	A . TOPSOIL STRIPPING AND STOCKPILING	419	CY	\$12.00	\$5,028.00
	B . SUBGRADE COMPACTION	1815	SY	\$2.50	\$4,537.50
	C . LINEAR GRADING	2711	FT	\$5.00	\$13,555.00
Subtotal					\$23,120.50
Erosion Control					
	A . SILT FENCE	2711	FT	\$4.00	\$10,844.00
	B . SILT SOCK INLET PROTECTION	18	EACH	\$200.00	\$3,600.00
Subtotal					\$14,444.00
Trail, Sidepath, and Widened Sidewalk Surface					
	A . SUBGRADE PREPARATION	1815	SY	\$2.00	\$3,630.00
	B . AGGREGATE BASE (T=6")	419	CY	\$60.00	\$25,140.00
	C . 6" CONCRETE WALK	13626	SF	\$8.00	\$109,008.00
	D . CONCRETE CURB RAMP, ADA ACCESSIBLE	10	EACH	\$1,200.00	\$12,000.00
Subtotal					\$149,778.00
Roadway, and Traffic Control					
	A . REMOVAL OF GROUND MOUNTED SIGN AND REERECTION	8	EACH	\$200.00	\$1,600.00
	B . PAINTED CROSSWALK LINE, TYPE 1	390	FT	\$15.00	\$5,850.00
Subtotal					\$7,450.00
Construction Survey & Layout					
	A . SURVEY AND LAYOUT	1	LS	\$2,500.00	\$2,500.00
	B . MAINTAINING TRAFFIC	1	LS	\$5,000.00	\$5,000.00
	C . MATERIAL TESTING AND INSPECTION (ALLOWANCE)	1	LS	\$5,000.00	\$5,000.00
Subtotal					\$12,500.00
Landscaping					
	A . PLACING STOCKPILED TOPSOIL	419	CY	\$8.00	\$3,352.00
	B . SEEDING AND MULCHING	1205	SY	\$2.00	\$2,410.00
Subtotal					\$5,762.00
Amenities					
	A . BUSINESS SIGN REPLACED	3	LS	\$8,000.00	\$24,000.00
Subtotal					\$24,000.00
Drainage and Utilities					
	A . REMOVE AND RESET CONCRETE CURB INLET OR CATCH BASIN OR ADJUST MANHOLE TO GRADE	1	EA	\$1,700.00	\$1,700.00
	B . REMOVE AND REERECT EXISTING UTILITY POLE OR LUMINAIRE	10	LS	\$5,000.00	\$50,000.00
	C . FIRE HYDRANT REMOVED AND RESET	2	EA	\$3,000.00	\$6,000.00
Subtotal					\$57,700.00
TOTAL					\$297,154.50
CONTINGENCY (20%)					\$59,430.90
GENERAL CONDITIONS (5%)					\$17,829.27
BONDS & INSURANCES (3%)					\$10,697.56
MOBILIZATION/DEMOBILIZATION (1.5%)					\$5,348.78
DESIGN, PERMITTING, AND DOCUMENTS (18%)					\$64,185.37
CONSTRUCTION INSPECTION (15%)					\$53,487.81
2019 TOTAL					\$508,134.20
ODOT COST INFLATOR 2020					\$523,378.22
ODOT COST INFLATOR 2021					\$541,173.08
ODOT COST INFLATOR 2022					\$559,031.79
ODOT COST INFLATOR 2023					\$576,361.78

SCATS | CANAL FULTON
LEAVER AVE TO COUNTY LINE

OFF-ROAD TRAIL

	DESCRIPTION	QUANTITY	UNIT	UNIT COST	TOTAL COST
Site Preparation/Demolition					
A	CLEARING AND GRUBBING	1	LS	\$20,000.00	\$20,000.00
Subtotal					\$20,000.00
Earthwork					
A	EXCAVATION & EMBANKMENT	722	CY	\$18.00	\$12,996.00
B	BORROW (IMPORT SOIL)	361	CY	\$35.00	\$12,635.00
C	SUBGRADE COMPACTION	2167	SY	\$2.50	\$5,417.50
Subtotal					\$31,048.50
Erosion Control					
A	SILT FENCE	1626	FT	\$4.00	\$6,502.00
Subtotal					\$6,502.00
Trail, Sidepath, and Widened Sidewalk Surface					
A	SUBGRADE PREPARATION	2167	SY	\$2.00	\$4,334.00
B	AGGREGATE BASE (T=6")	361	CY	\$60.00	\$21,660.00
C	TACK COAT - 0.04 GAL/SY	72	GAL	\$3.00	\$216.00
D	ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE 2 (448), PG 64-22 (T=1.75")	97	CY	\$175.00	\$16,975.00
E	ASPHALT CONCRETE SURFACE COURSE, TYPE 1 (448), PG 64-22 (T=1.25")	88	CY	\$175.00	\$15,400.00
Subtotal					\$58,585.00
Roadway, and Traffic Control					
A	SIGN, FLAT SHEET	6	SF	\$25.00	\$150.00
B	GROUND MOUNTED SUPPORT, NO. 3 POST	20	FT	\$10.00	\$200.00
Subtotal					\$350.00
Construction Survey & Layout					
A	SURVEY AND LAYOUT	1	LS	\$3,000.00	\$3,000.00
B	MAINTAINING TRAFFIC	1	LS	\$1,500.00	\$1,500.00
C	MATERIAL TESTING AND INSPECTION (ALLOWANCE)	1	LS	\$2,000.00	\$2,000.00
Subtotal					\$6,500.00
Landscaping					
A	SEEDING AND MULCHING	361	SY	\$2.00	\$722.00
Subtotal					\$722.00
Amenities					
A	BOLLARD	2	EACH	\$800.00	\$1,600.00
Subtotal					\$1,600.00
Drainage and Utilities					
A	12" CULVERT	244	FT	\$75.00	\$18,300.00
Subtotal					\$18,300.00
TOTAL					\$143,607.50
CONTINGENCY (20%)					\$28,721.50
GENERAL CONDITIONS (5%)					\$8,616.45
BONDS & INSURANCES (3%)					\$5,169.87
MOBILIZATION/DEMOBILIZATION (1.5%)					\$2,584.94
DESIGN, PERMITTING, AND DOCUMENTS (18%)					\$31,019.22
CONSTRUCTION INSPECTION (15%)					\$25,849.35
2019 TOTAL					\$245,568.83
ODOT COST INFLATOR 2020					\$252,935.89
ODOT COST INFLATOR 2021					\$261,535.71
ODOT COST INFLATOR 2022					\$270,166.39
ODOT COST INFLATOR 2023					\$278,541.55

SCATS | CANAL FULTON

COUNTY LINE TO MEADOW VIEW DRIVE

OFF-ROAD TRAIL

	DESCRIPTION	QUANTITY	UNIT	UNIT COST	TOTAL COST
Site Preparation/Demolition					
A .	CLEARING AND GRUBBING	1	LS	\$50,000.00	\$50,000.00
Subtotal					\$50,000.00
Earthwork					
A .	EXCAVATION & EMBANKMENT	2172	CY	\$18.00	\$39,096.00
B .	TOPSOIL STRIPPING AND STOCKPILING	1086	CY	\$12.00	\$13,032.00
C .	BORROW (IMPORT SOIL)	1086	CY	\$35.00	\$38,010.00
D .	SUBGRADE COMPACTION	6517	SY	\$2.50	\$16,292.50
Subtotal					\$106,430.50
Erosion Control					
A .	SILT FENCE	4888	FT	\$4.00	\$19,552.00
Subtotal					\$19,552.00
Trail, Sidepath, and Widened Sidewalk Surface					
A .	SUBGRADE PREPARATION	6517	SY	\$2.00	\$13,034.00
B .	AGGREGATE BASE (T=6")	1086	CY	\$60.00	\$65,160.00
C .	TACK COAT - 0.04 GAL/SY	217	GAL	\$3.00	\$651.00
D .	ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE 2 (448), PG 64-22 (T=1.75")	290	CY	\$175.00	\$50,750.00
E .	ASPHALT CONCRETE SURFACE COURSE, TYPE 1 (448), PG 64-22 (T=1.25")	189	CY	\$175.00	\$33,075.00
Subtotal					\$162,670.00
Driveways, Roadway, and Traffic Control					
A .	SIGN, FLAT SHEET	6	SF	\$25.00	\$150.00
B .	GROUND MOUNTED SUPPORT, NO. 3 POST	16	FT	\$10.00	\$160.00
Subtotal					\$310.00
Structures					
A .	AASHTO/ODOT COMPLIANT H15 RATED PREFABRICATED BOARDWALK, 14' CLEAR HORIZONTAL WIDTH	65	FT	\$900.00	\$58,500.00
Subtotal					\$58,500.00
Construction Survey & Layout					
A .	SURVEY AND LAYOUT	1	LS	\$10,000.00	\$10,000.00
B .	MAINTAINING TRAFFIC	1	LS	\$500.00	\$500.00
C .	MATERIAL TESTING AND INSPECTION (ALLOWANCE)	1	LS	\$5,000.00	\$5,000.00
Subtotal					\$15,500.00
Landscaping					
A .	PLACING STOCKPILED TOPSOIL	1086	CY	\$8.00	\$8,688.00
B .	SEEDING AND MULCHING	5431	SY	\$2.00	\$10,862.00
Subtotal					\$19,550.00
Amenities					
A .	FENCE, 42"	80	FT	\$65.00	\$5,200.00
B .	BOLLARD	2	EACH	\$800.00	\$1,600.00
Subtotal					\$6,800.00
Drainage and Utilities					
A .	12" CULVERT	733	FT	\$75.00	\$54,975.00
Subtotal					\$54,975.00
TOTAL					\$494,287.50
CONTINGENCY (20%)					\$98,857.50
GENERAL CONDITIONS (5%)					\$29,657.25
BONDS & INSURANCES (3%)					\$17,794.35
MOBILIZATION/DEMOBILIZATION (1.5%)					\$8,897.18
DESIGN, PERMITTING, AND DOCUMENTS (18%)					\$106,766.10
CONSTRUCTION INSPECTION (15%)					\$88,971.75
2019 TOTAL					\$845,231.63
ODOT COST INFLATOR 2020					\$870,588.57
ODOT COST INFLATOR 2021					\$900,188.59
ODOT COST INFLATOR 2022					\$929,894.81
ODOT COST INFLATOR 2023					\$958,721.55