



BICYCLE AND PEDESTRIAN PLAN

August, 2010

CITY OF NORTON SHORES BICYCLE AND PEDESTRIAN PLAN

General public interest purposes in this Bicycle and Pedestrian Plan are to promote public health and safety, access to community facilities and businesses for all, regardless of age, physical capacity, weather conditions and time of day, and to promote diverse modes of transportation.

Purpose of the Plan:

- To increase bicycle and pedestrian use,
- To identify a potential network of bicycle and pedestrian facilities, and
- To identify methods of creating it.

Objectives of the Plan:

- To identify locations for improved facilities or engineering improvements which connect neighborhoods to existing schools, commercial areas and recreational facilities.
- To facilitate travel between and within residential neighborhoods and key employment centers, recreational facilities, and shopping districts.
- To outline an implementation strategy for the actions identified in the action plan.

Overall Commercial Development Recommendations

Require sidewalks in commercial/office developments in the following zones:

- Pontaluna Village
It is the community's goal to continue to link existing and future commercial and office facilities in this node with existing and planned adjacent residential developments including the Shoreline Landings and Hampton Courts Apartments. Sidewalks will continue to be added as individual properties are developed within the Village.
- Seminole Road – Lake Forest Drive to Seaway Drive – north side
It is the community's goal to continue linking existing commercial/office facilities along the Seminole Road Corridor with surrounding residential neighborhoods to the west and south including the Lake Forest Apartments, the Dayspring facilities and the Arbors and Trellis Condominiums, as well as the Norton Shores Branch Library.
- Henry Street – east side from Sherman Boulevard to Seminole Road
It is the community's goal to encourage pedestrian movement between businesses while linking up with residential neighborhoods south of Seminole Road. This would also provide walkable access for residents in the adjacent cities of Roosevelt Park and Muskegon Heights.

- Harvey Street – west side from E. Hile Road to E. Pontaluna Road
It is the community's goal to encourage pedestrian movement between businesses while linking up with residential developments located nearby. This would provide walkable access for residents in the Pheasant Run Condominiums and Reserve Apartments to adjacent commercial and office facilities as well as to encourage pedestrian movements between these businesses themselves.

Overall Residential Development Recommendations

- The City will require sidewalk along the major street (collector or local arterial) frontage of new residential development to begin the process of linking neighborhoods in accordance with this plan.
- The City will contact neighborhood and condominium associations from existing residential developments and encourage them to consider installing sidewalk along the major street frontage of each subdivision or condominium development to link with future developments.
- The City will require at least one (1) internal paved pathway system within and throughout any new residential development.

Specific Recommended Improvements

Link parks, schools, residential developments with bike paths or sidewalk:

Bike Path extensions

1. Wood Road to the Black Lake Park entrance – west side

This extension of the existing system would provide a connection to the park for surrounding neighborhoods from the existing bike path network along Pontaluna Road. This will require a stream crossing.

Cost Estimate

Lineal feet (one side)	4,700	x	\$ 60.00	\$282,000
Contingency @ 10%				\$ 28,200
Professional Fees @ 10%				\$ 28,200
Total				\$338,400

2. Black Lake Road from Pontaluna Road to City boundary – paved shoulders each side

This extension of the system would provide a link to the future Palm Drive Trail to be extended north by Spring Lake Township from Hickory Street along Palm Drive.

Cost Estimate

Lineal feet (both sides)	5,600	x	\$ 80.00	\$448,000
Contingency @ 10%				\$ 44,800
Professional Fees @ 10%				\$ 44,800
Total				\$537,600

Sidewalk extensions

1. Grand Haven Road from Hidden Cove Park to Airport Road – west side

Connect the Roodmont and south Grand Haven Road neighborhoods with Hidden Cove Park to provide direct pedestrian access. The park currently has no direct pedestrian access from any residential neighborhood.

Cost Estimate

Lineal feet	1,100	x	\$ 22.50	\$24,750
Barrier free ramps	4	x	\$375.00	\$ 1,500
Subtotal				\$26,250
Contingency @ 10%				\$ 2,625
Professional Fees @ 10%				\$ 2,625
Total				\$ 31,500

2. McDermott Street from E. Broadway Avenue to E. Summit Avenue

Provide a linkage to Avondale Park for surrounding residences and to foster a sense of community. This is a neighborhood park which has no direct pedestrian access other than residents walking in the streets to reach it.

Cost Estimate

Lineal feet	1,300	x	\$ 22.50	\$29,250
Barrier free ramps	6	x	\$375.00	\$ 2,250
Subtotal				\$31,500
Contingency @ 10%				\$ 3,150
Professional Fees @ 10%				\$ 3,150
Total				\$ 37,800

3. Bailey Street from Cleveland Street to E. Summit Avenue to McDermott Street

Provide a linkage to Avondale Park for E. Broadway residential neighborhoods including the Value Family Properties Mobile Home Park.

Cost Estimate

Lineal feet	1,700	x	\$ 22.50	\$ 38,250
Barrier free ramps	4	x	\$375.00	\$ 1,500
Subtotal				\$ 39,750
Contingency @ 10%				\$ 3,975
Professional Fees @ 10%				\$ 3,975
Total				\$ 47,700

4. Henry Street from Aue Road to Randall Road – east side

Complete the linkage of pedestrian flow along Henry Street extending east to Ross Park Elementary School. This is the only gap in the network which extends to Porter Road and ultimately Churchill Porter School.

Cost Estimate

Lineal feet	600	x	\$ 22.50	\$13,500
Barrier free ramps	2	x	\$375.00	\$ 750
Subtotal				\$14,250
Contingency @ 10%				\$ 1,425
Professional Fees @ 10%				\$ 1,425
Total				\$ 17,100

5. Henry Street from Randall Road to Forest Park Road – east side
Henry Street from Forest Park Road to Seminole Road – west side

Provide pedestrian linkage to the Henry Street/Seminole Road/Norton Avenue commercial corridors. This may require additional easements adjacent to the Henry Street Bridge. Currently the only way for pedestrians south of the bridge to reach commercial/office developments on Henry Street is to walk on the paved shoulder of the roadway. This connection would link with the aforementioned system extending to Porter Road.

Cost Estimate – east side

Lineal feet	2,400	x	\$ 22.50	\$ 54,000
Barrier free ramps	10	x	\$375.00	\$ 3,750
Subtotal				\$ 57,750
Contingency @ 10%				\$ 5,775
Professional Fees @ 10%				\$ 5,775
Total				\$ 69,300

Cost Estimate – west side

Lineal feet	2,000	x	\$ 22.50	\$ 45,000
Barrier free ramps	6	x	\$375.00	\$ 2,250
Subtotal				\$ 47,250
Contingency @ 10%				\$ 4,725
Professional Fees @ 10%				\$ 4,725
Total				\$ 56,700

6. E. Hile Road from Henry Street to Martin Road – north side

Provide safe pedestrian access to Ross Park and Ross Park Elementary School from residential neighborhoods along Hile Road. This extension would link this residential neighborhood with the school while moving pedestrians, and more specifically children, off of the shoulders of the roadway.

Cost Estimate

Lineal feet	5,100	x	\$ 22.50	\$114,750
Barrier Free Ramps	4	x	\$375.00	\$ 1,500
Subtotal				\$116,250
Contingency @ 10%				\$ 16,250
Professional Fees @ 10%				\$ 16,250
Total				\$148,750

7. Getty Street between Columbia Avenue and E. Norton Avenue – east side

Connect the residential neighborhoods along the east side of the street with Getty Street commercial facilities. Currently there is no pedestrian access for residents of the Oaks and Crestview manufactured home communities nor the neighborhoods along Norton Avenue east of Getty Street.

Cost Estimate

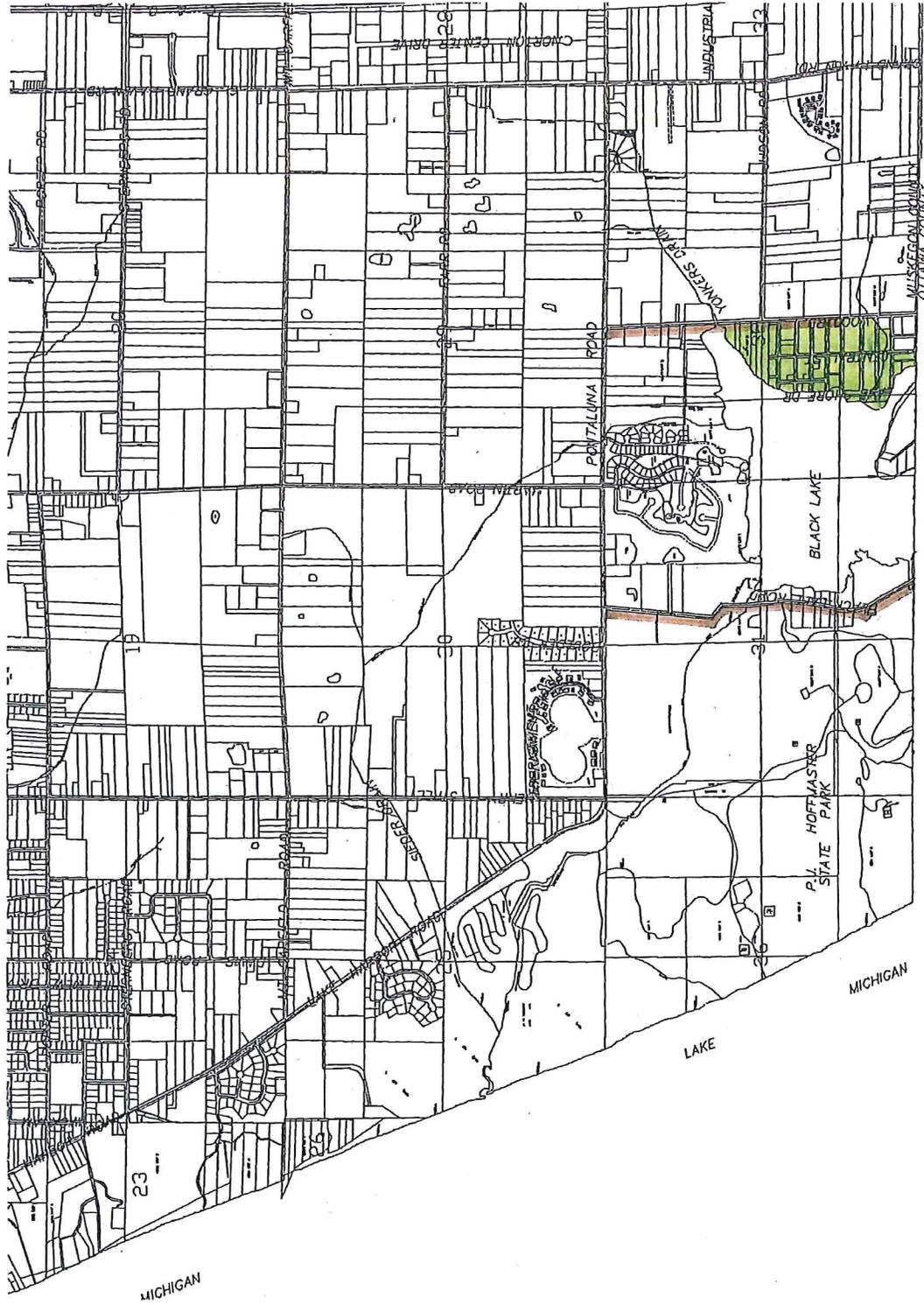
Lineal feet	3,200 x	\$ 22.50	\$72,000
Barrier free ramps	20 x	\$375.00	\$ 7,500
Subtotal			\$75,000
Contingency @ 10%			\$ 7,500
Professional Fees @ 10%			\$ 7,500
Total			\$ 90,000

8. Harvey Street between E. Hile Road and E. Pontaluna Road – west side

Provide a pedestrian connection between commercial developments along Harvey Street, as well as between these facilities and residential developments such as Pheasant Run, the Reserve Apartments and the Hackley Lakes Medical facility further to the south. The estimated cost per foot for this proposal has been increased due to expected additional costs for routing this sidewalk around existing drainage and parking facilities.

Cost Estimate

Lineal feet	6,410 x	\$ 22.50	\$144,225
Lineal feet	6,410 x	\$ 33.75	\$216,338
Barrier free ramps	8 x	\$375.00	\$ 3,000
Subtotal			\$363,563
Contingency @ 10%			\$ 36,356
Professional Fees @ 10%			\$ 36,356
Total			\$ 436,275



PROPOSED BIKE PATH EXTENSIONS

MICHIGAN

LAKE

MICHIGAN

HOFFMASTER
STATE PARK

BLACK LAKE

PONTALINA ROAD

TINKERS CREEK

LANDS TITLIA

NORTHON CENTER DRIVE

MISSISSAUGA COUNTY
OTTAWA COUNTY

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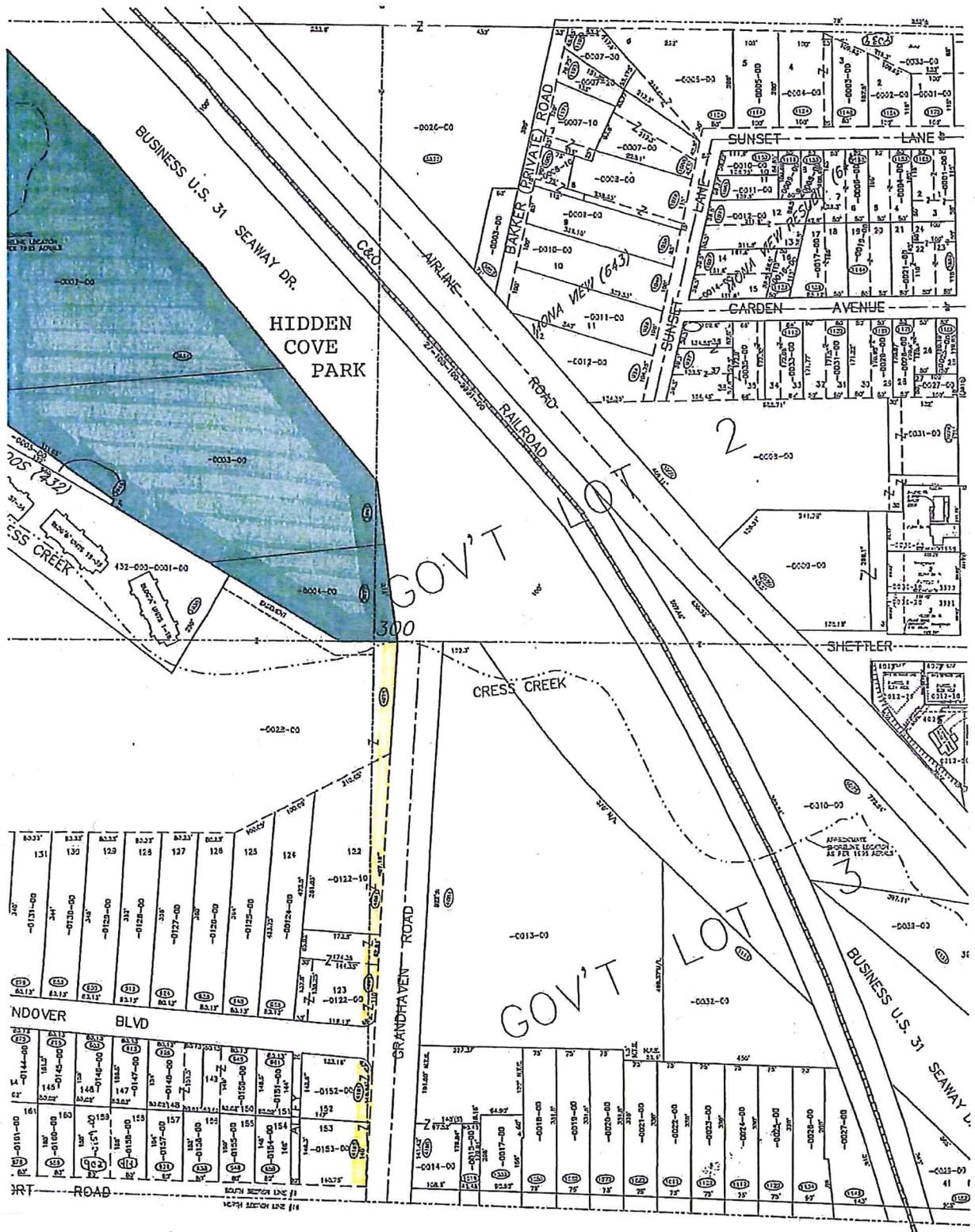
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GRAND HAVEN ROAD FROM HIDDEN COVE PARK TO AIRPORT ROAD



VALUE FAMILY MOBILE HOME PARK

BAILEY STREET FROM CLEVELAND STREET TO E. SUMMIT AVENUE

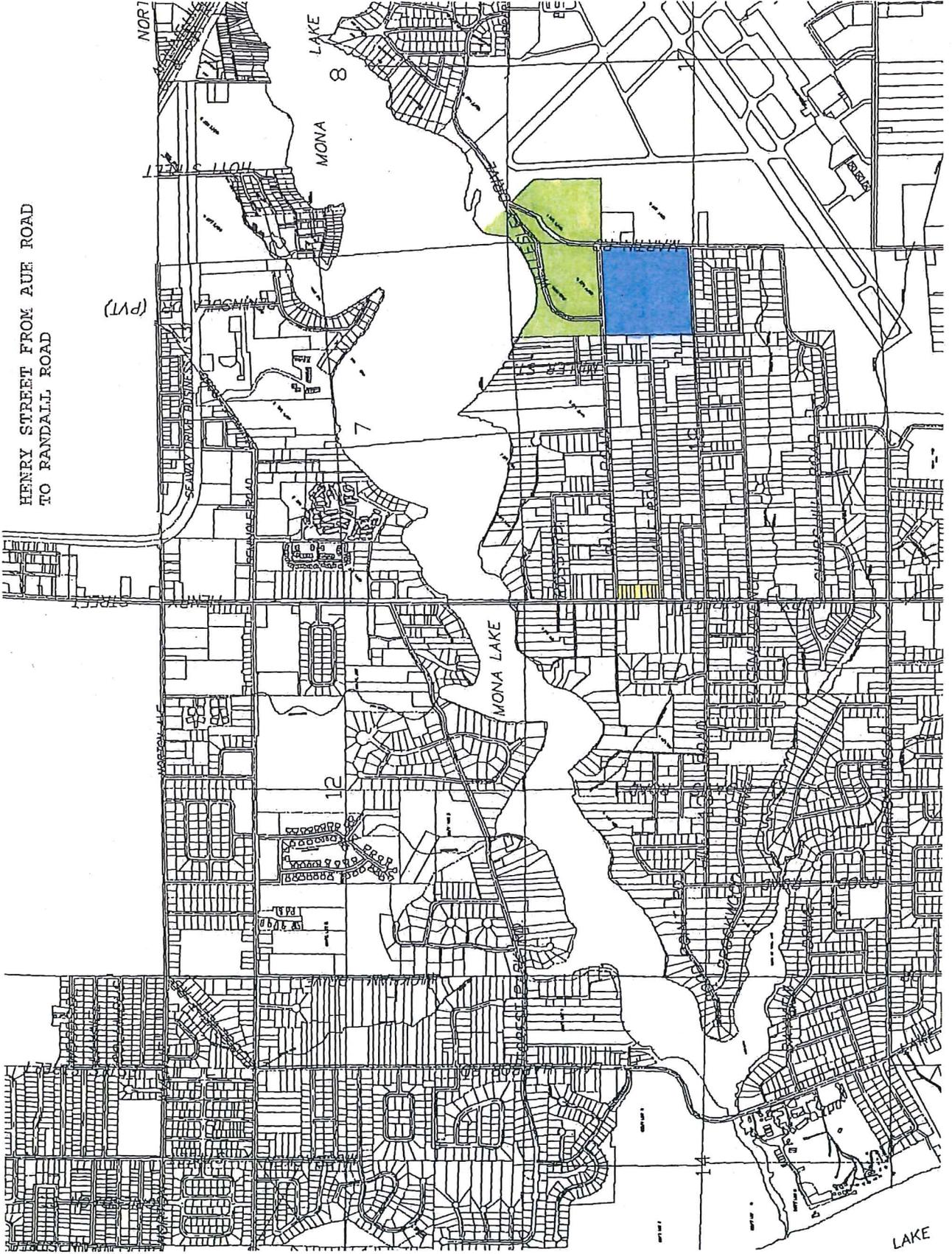


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VALUE FAMILY MOBILE HOME PARK

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MCDERMOTT STREET FROM E. BROADWAY AVENUE TO E. SUMMIT AVENUE



HENRY STREET FROM AUE ROAD
TO RANDALL ROAD

(PVT)

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LAKE

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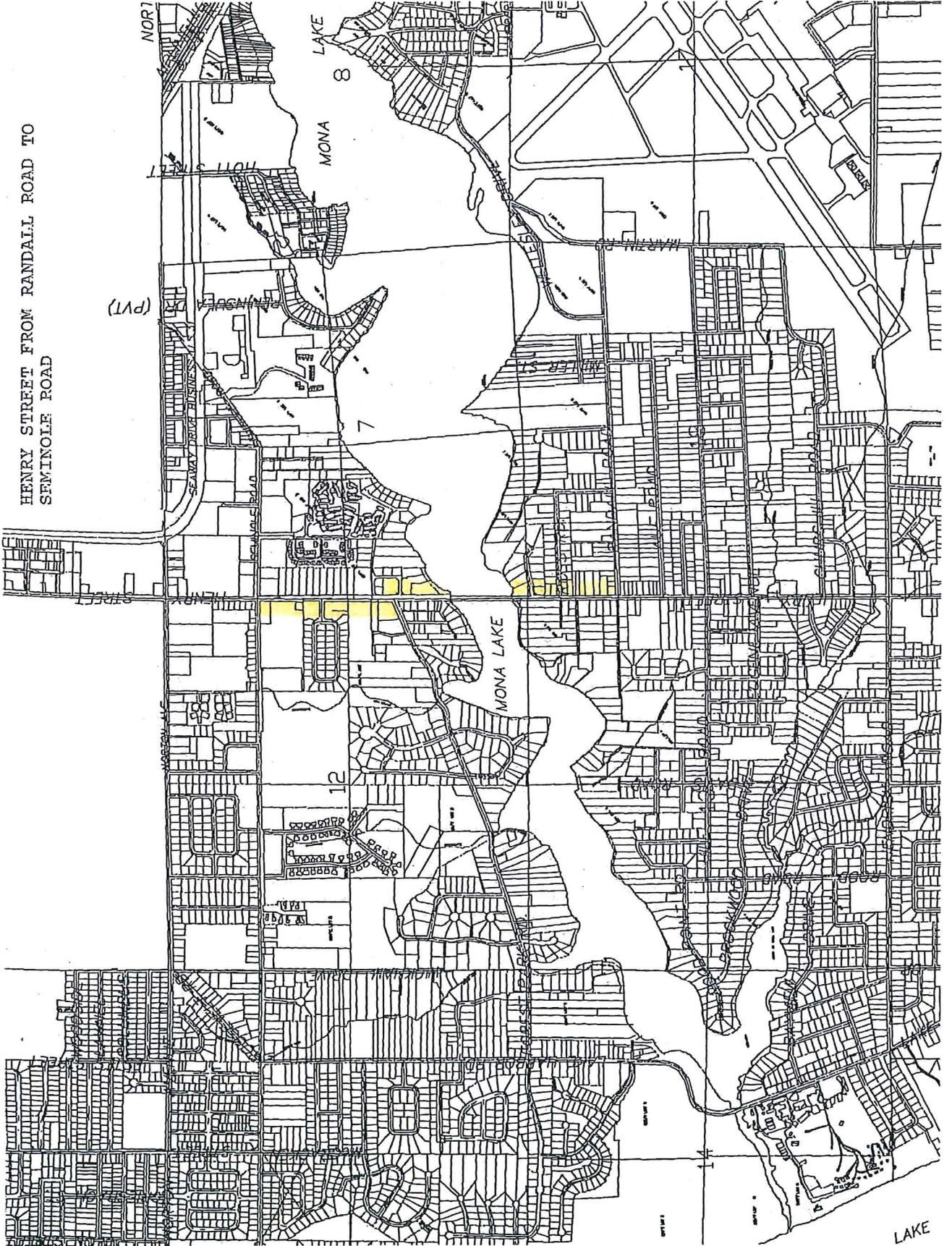
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MONA LAKE

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LAKE



HENRY STREET FROM RANDALL ROAD TO SEMINOLE ROAD

(PVT)

NOR 7

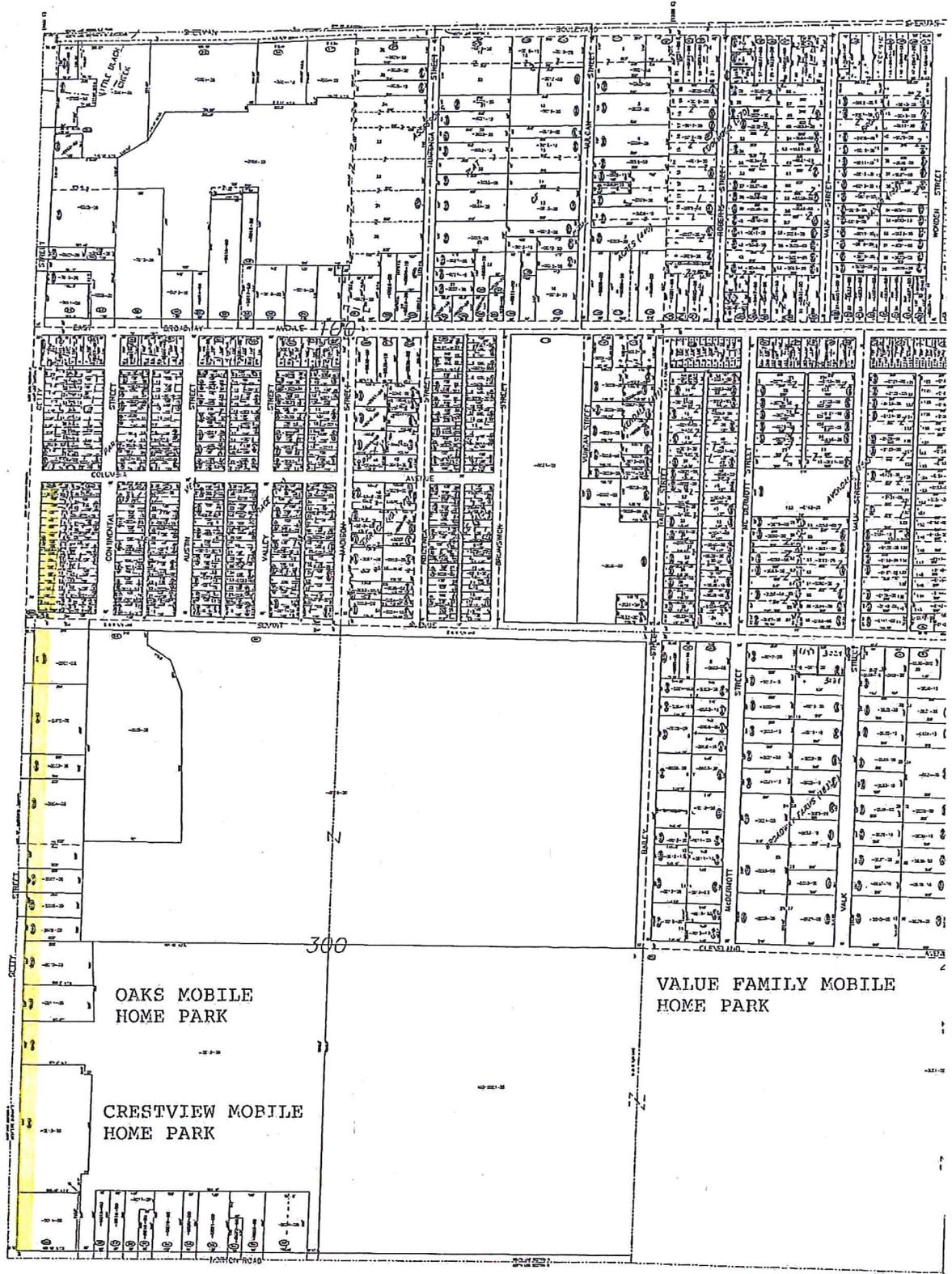
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MONA LAKE

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LAKE



GETTY STREET FROM E. NORTON
 AVENUE TO COLUMBIA AVENUE

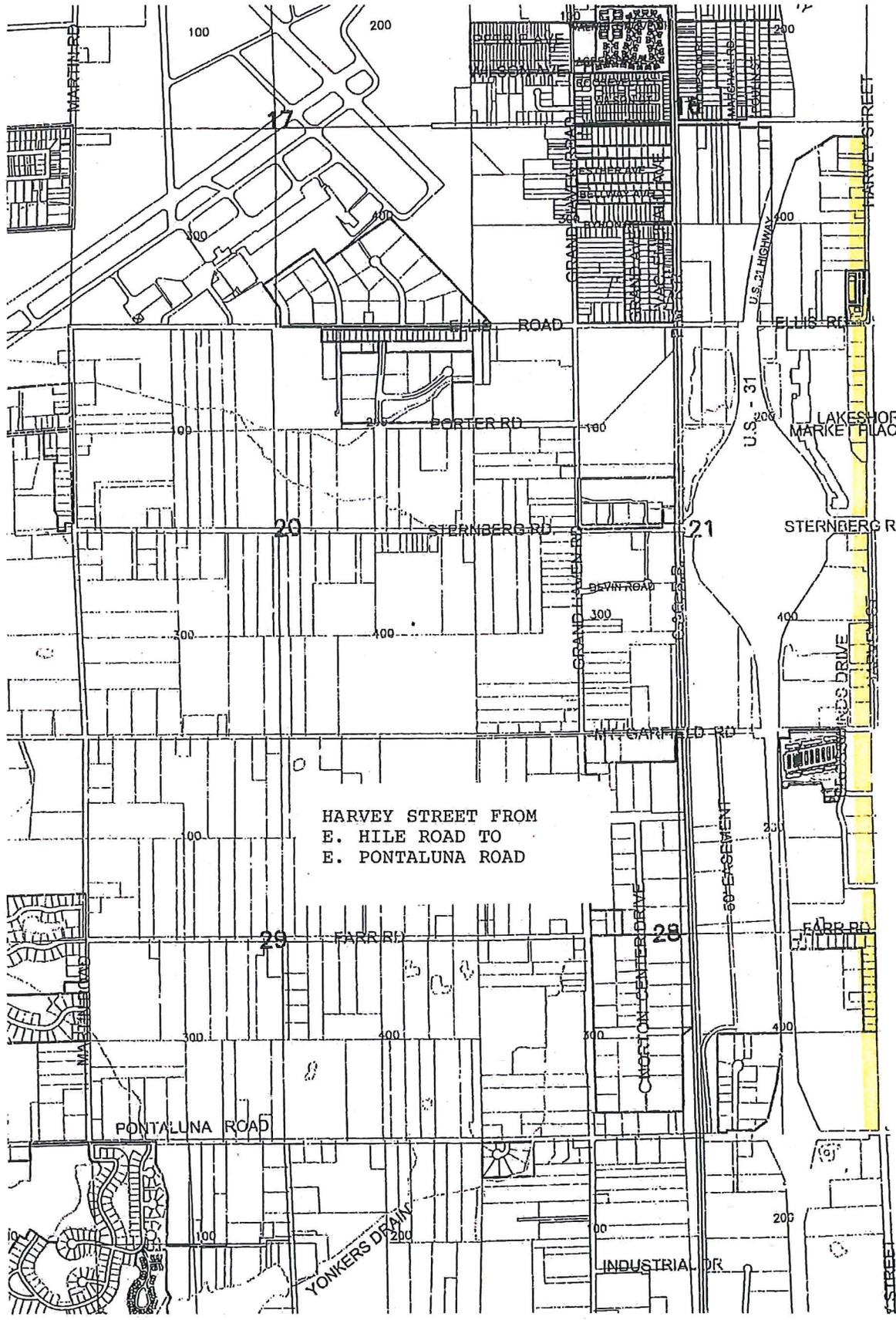
SECTION 109

LEGEND

- SECTION/QUARTER LINE
- PROPERTY LINE
- ORIGINAL LOT LINE
- ROAD & RAILROAD R/W
- CENTERLINE
- CENTERLINE WATERWAY

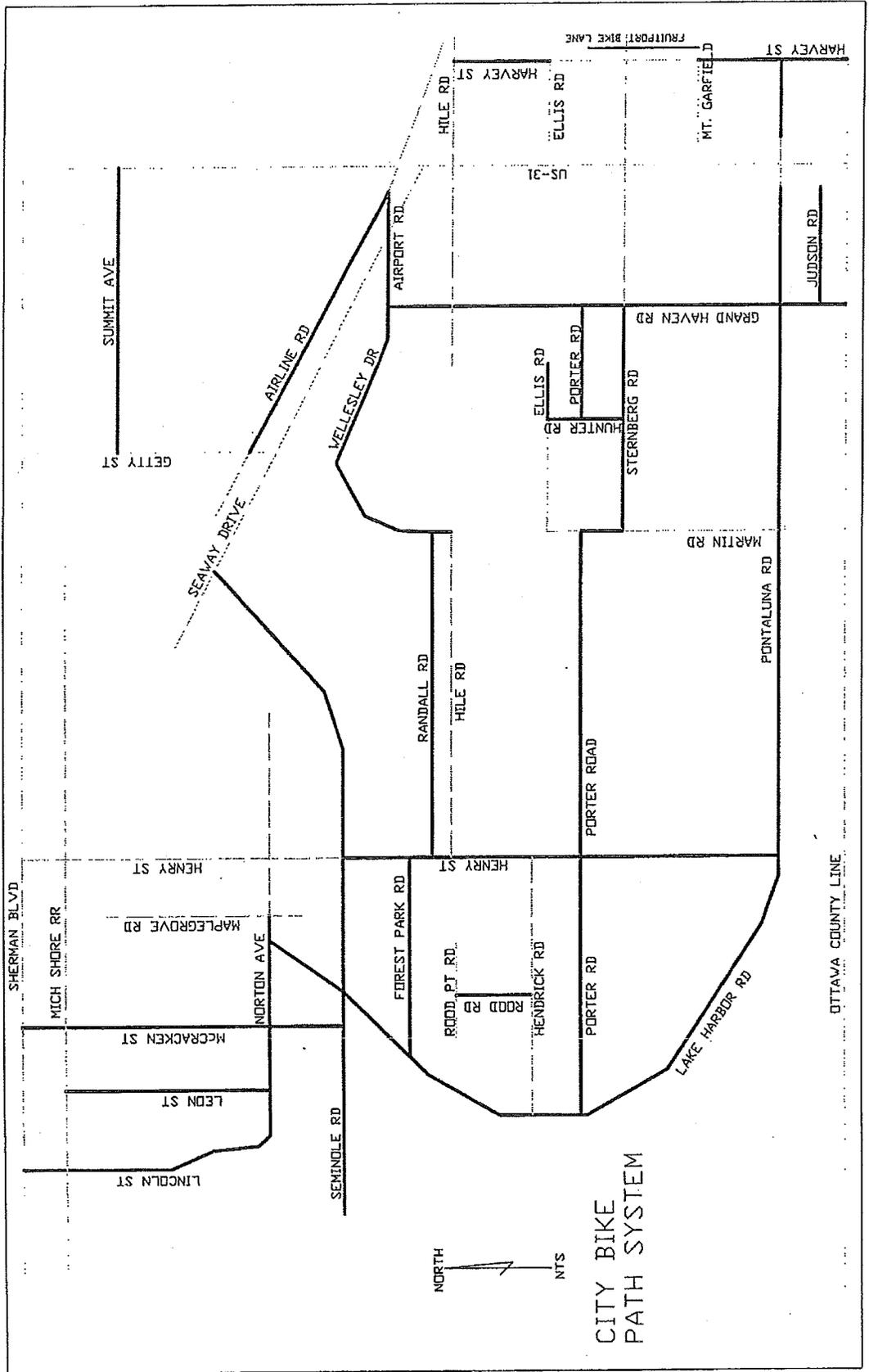
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HARVEY STREET FROM
E. HILE ROAD TO
E. PONTALUNA ROAD

FRUITPORT TOWNSHIP



CITY BIKE
PATH SYSTEM

NORTH
NTS

OTTAWA COUNTY LINE

SHERMAN BLVD

MICH SHORE RR

HENRY ST

MAPLE GROVE RD

NORTON AVE

MCCRACKEN ST

LEOD ST

LINCOLN ST

SEMINDOLE RD

FOREST PARK RD

HENRY ST

RODD PT RD

RODD RD

HENDRICK RD

PORTER RD

LAKE HARBOR RD

SEAWAY DRIVE

AIRLINE RD

MELLESLEY DR

AIRPORT RD

RANDALL RD

HILE RD

SUMMIT AVE

GETTY ST

ELLIS RD

HUNTER RD

STERNBERG RD

GRAND HAVEN RD

MARTIN RD

PONTALUNA RD

HILE RD

US-31

ELLIS RD

HARVEY ST

FRUITPORT BIKE LANE

MT. GARFIELD

HARVEY ST

JUDSON RD