

CITY OF EAST GRAND RAPIDS

KENT COUNTY, MICHIGAN



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48	BIKE MARKING AND SIGN DETAILS

MOBILITY - BIKE ACTION PLAN

GUIDE SIGNS:
LOCATED AT ALL CHANGE IN
DIRECTIONS WITHIN NETWORK
TOTAL SIGNS: 56

PAVEMENT MARKINGS:
INTERVAL ~ 500FT
TOTAL MARKINGS: 228

Halverson Engineering, LLC
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CITY OF EAST GRAND RAPIDS
KENT COUNTY, MICHIGAN
MOBILITY -
BIKE ACTION PLAN

DRAWN BY DATE
JLH 4/4/22

CHECKED BY DATE
JLH 4/4/22

PROJECT NUMBER
1060

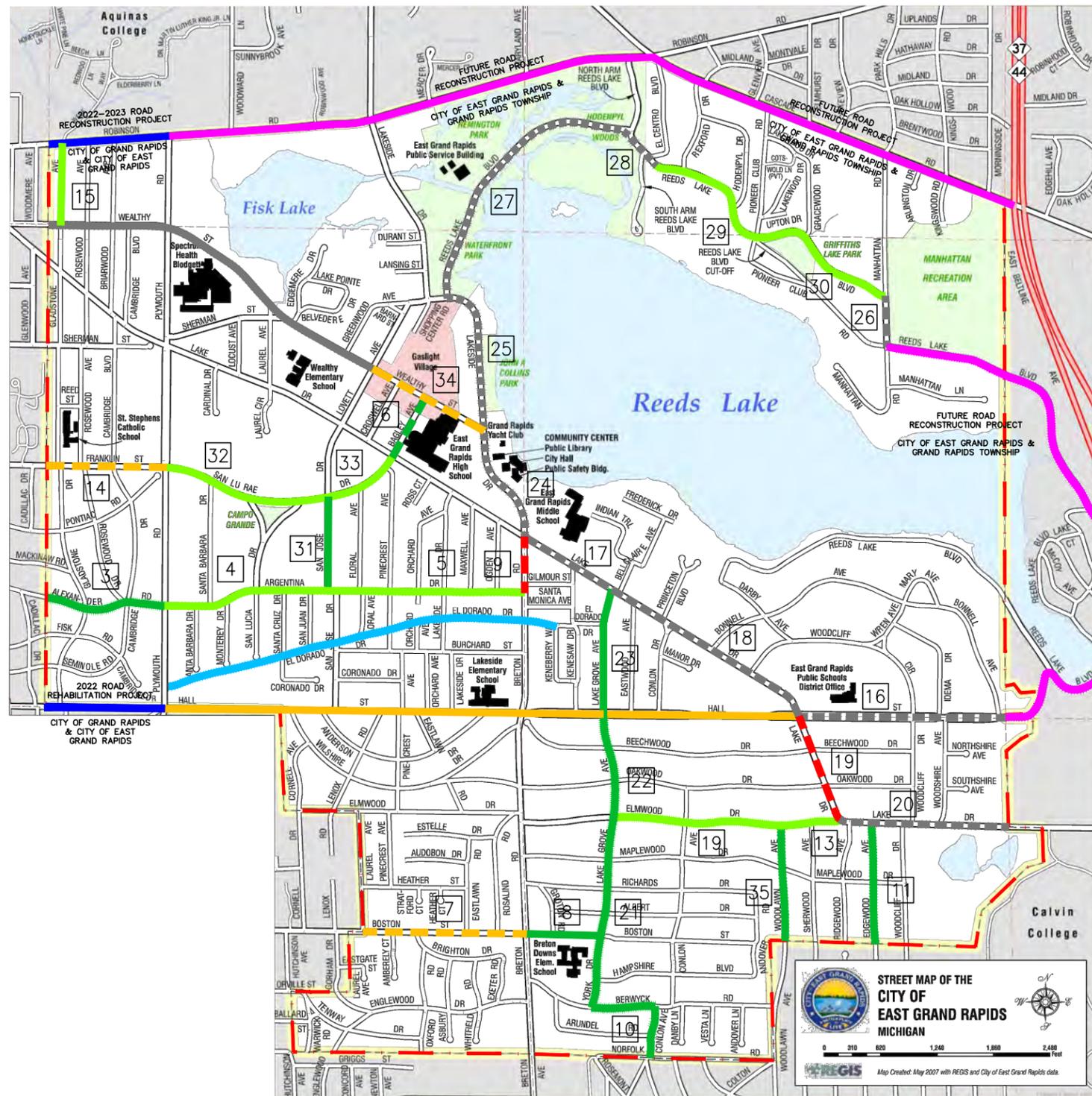
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MAP LEGEND: SHORT TERM PHASE ROAD TYPE

- CROSSTOWN CONNECTOR
- NETWORK RESIDENTIAL
- LINK RESIDENTIAL
- NEIGHBORHOOD RESIDENTIAL
- PEDESTRIAN WALKING PATH
- EX. EGR MULTI-USE, BICYCLE, OR PED FACILITIES
- - - - - EX. FACILITIES (UPDATED IN BIKE MOBILITY PLAN)
- FUTURE PROJECT WITH CITY OF GRAND RAPIDS
- FUTURE PROJECT WITH KCRC, GR TOWNSHIP
- - - - - CITY LIMITS

MAP LEGEND: MID & LONG TERM PHASE ROAD TYPE

- - - - - CROSSTOWN CONNECTOR
- - - - - NETWORK RESIDENTIAL
- - - - - LINK RESIDENTIAL
- - - - - NEIGHBORHOOD RESIDENTIAL



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NOTE: THE IMPLEMENTATION OF THE MOBILITY – BIKE ACTION PLAN ADDRESSES ALL SHORT TERM PROJECTS, SOME MID AND LONG TERM PROJECTS WITH INTERMEDIATE UPGRADES SLATED FOR FUTURE RECONSTRUCTION, AND UPDATES SOME EXISTING FACILITIES IDENTIFIED IN THE MOBILITY-BIKE ACTION PLAN PREPARED BY PROGRESSIVE AE-JUNE 2021.

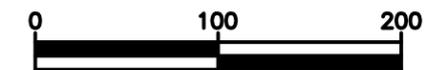
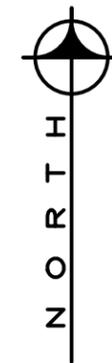
SOURCES:
 MANUAL ON UNIFORM TRAFFIC CONTROL FOR STREETS AND HIGHWAY, 2009 EDITION;
 AASHTO GUIDE FOR THE DEVELOPMENT OF BICYCLE FACILITIES, 2012 FOURTH EDITION;
 MICHIGAN DEPARTMENT OF TRANSPORTATION STANDARD PLAN (PAVE-900-G, PAVE-961-C, PAVE-962-B)



ALEXANDER RD (CITY LIMITS TO CAMBRIDGE DR)
 SEE CROSS SECTION ON SHEET 39



ALEXANDER RD (CAMBRIDGE DR TO PLYMOUTH RD)
 SEE CROSS SECTION ON SHEET 39



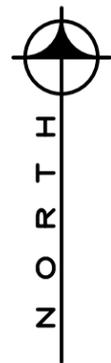
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ARGENTINA DR (PLYMOUTH RD TO SAN LUCIA DR)
 SEE CROSS SECTION ON SHEET 39



ARGENTINA DR (SAN LUCIA DR TO FLORAL AVE)
 SEE CROSS SECTION ON SHEET 39

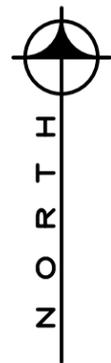




ARGENTINA DR (FLORAL AVE TO LAKESIDE DR)
 SEE CROSS SECTION ON SHEET 39

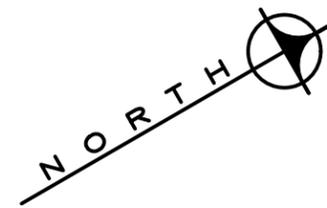


ARGENTINA DR (LAKESIDE DR TO BRETON RD)
 SEE CROSS SECTION ON SHEET 39





BAGLEY AVE (LAKE DR TO WEALTHY ST)
 SEE CROSS SECTION ON SHEET 40

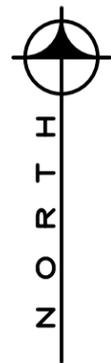


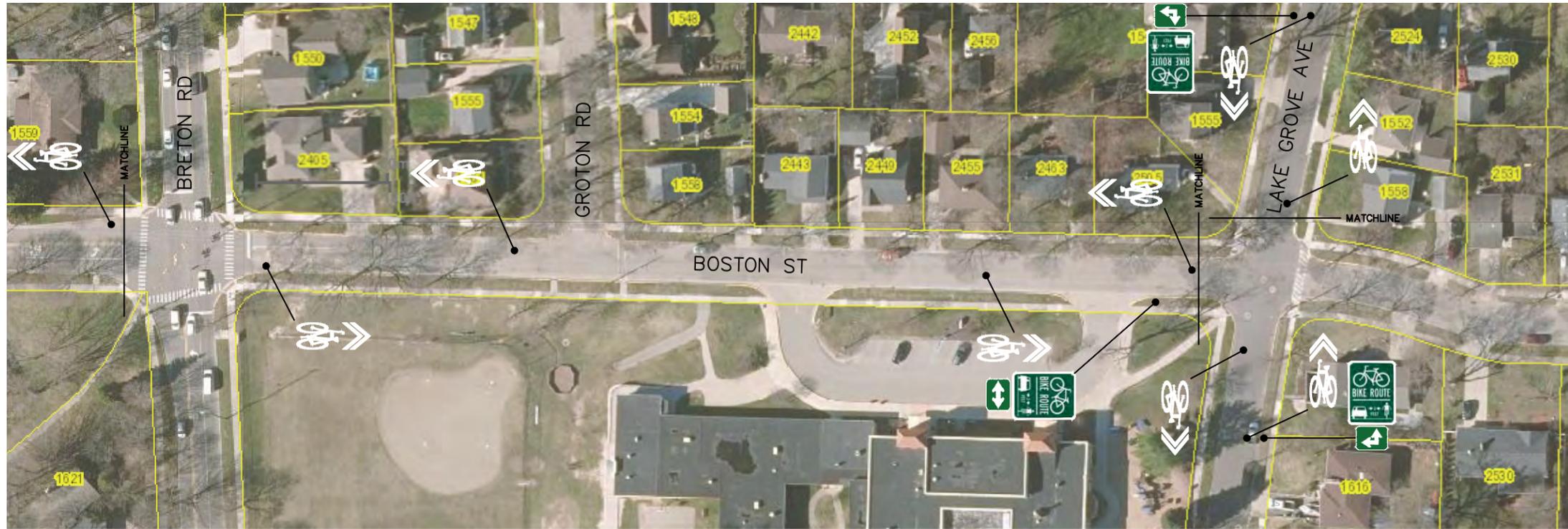


BOSTON ST (CITY LIMITS TO BRIGHTON DR)
 SEE CROSS SECTION ON SHEET 47

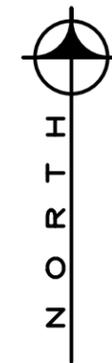


BOSTON ST (BRIGHTON DR TO BRETON RD)
 SEE CROSS SECTION ON SHEET 47





BOSTON ST (BRETON RD TO LAKE GROVE AVE)
 SEE CROSS SECTION ON SHEET 39

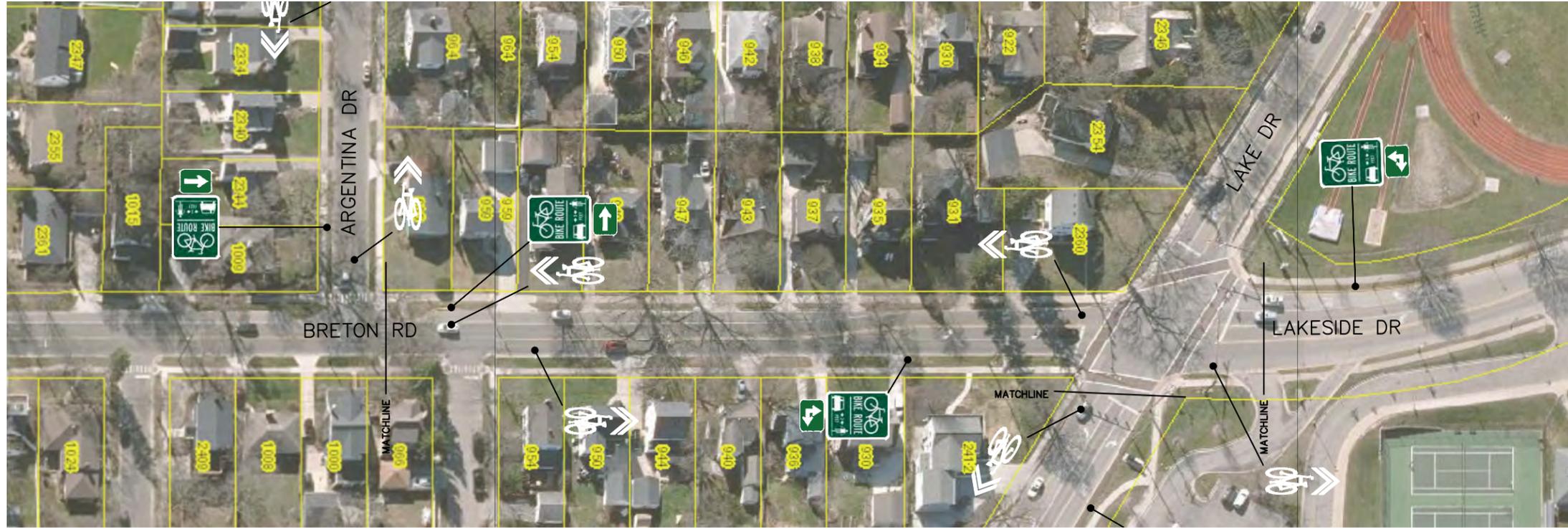


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BRETON RD (ARGENTINA DR TO LAKE DR)
 SEE CROSS SECTION ON SHEET 39



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CONLON AVE (CITY LIMITS TO BERWYCK RD)

BERWYCK RD (CONLON AVE TO YORK DR)

SEE CROSS SECTION ON SHEET 39



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EDGEWOOD AVE (CITY LIMITS TO MAPLEWOOD DR)
 SEE CROSS SECTION ON SHEET 39



EDGEWOOD AVE (MAPLEWOOD DR TO LAKE DR)
 SEE CROSS SECTION ON SHEET 39

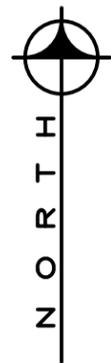




ELMWOOD DR (LAKE GROVE AVE TO CONLON AVE)
 SEE CROSS SECTION ON SHEET 39

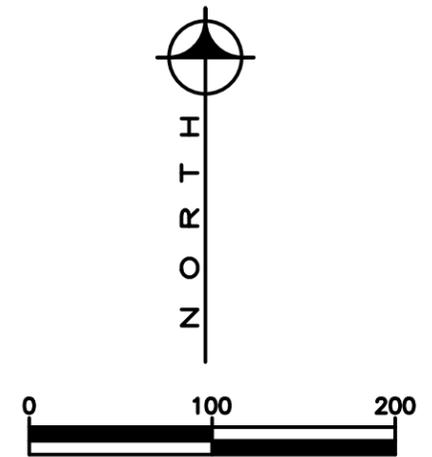


ELMWOOD DR (CONLON AVE TO WOODLAWN AVE)
 SEE CROSS SECTION ON SHEET 39





ELMWOOD DR (WOODLAWN AVE TO LAKE DR)
 SEE CROSS SECTION ON SHEET 39

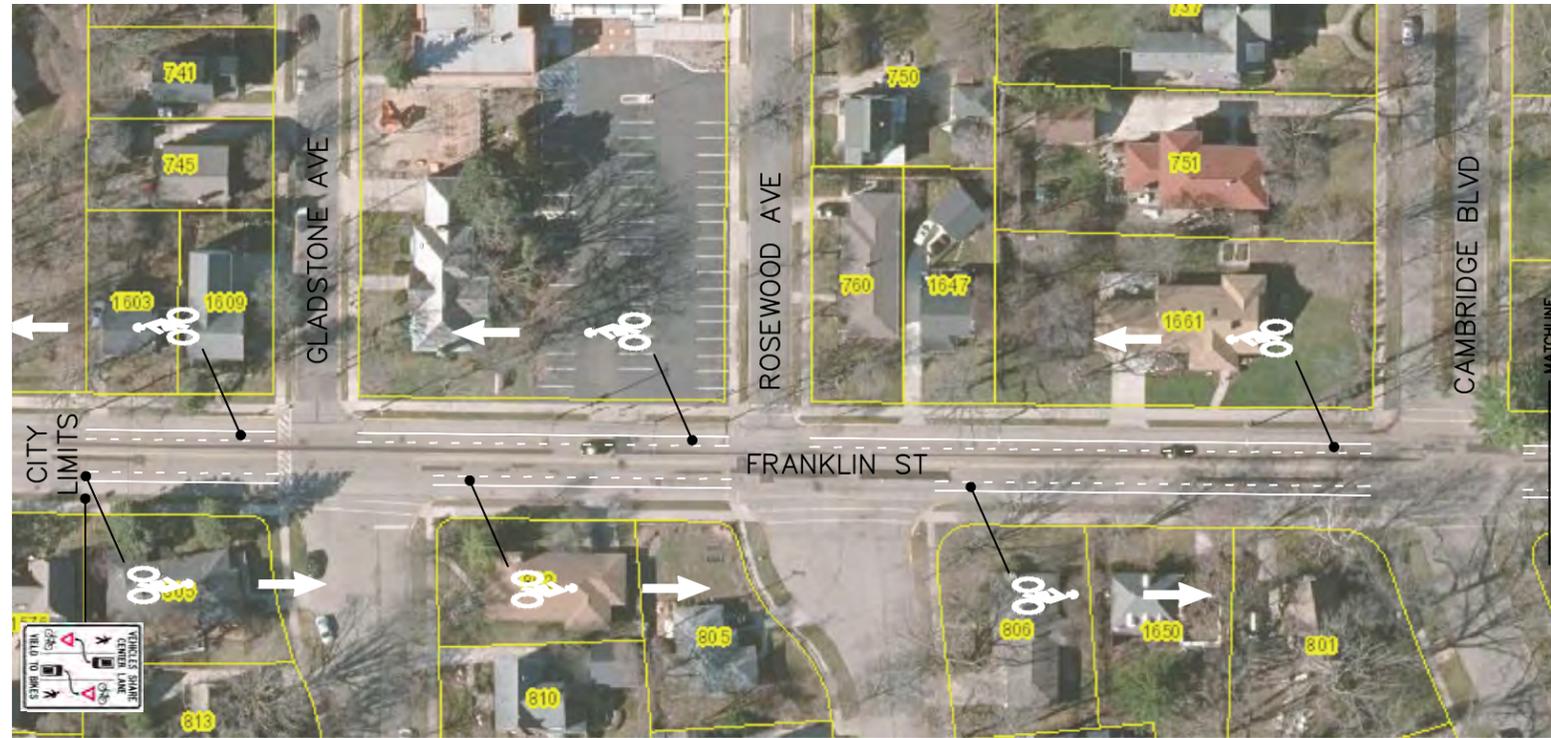


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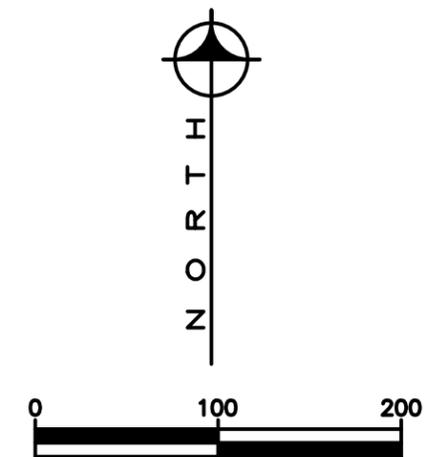
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FRANKLIN ST (CITY LIMITS TO CAMBRIDGE BLVD)
 SEE CROSS SECTION ON SHEET 38

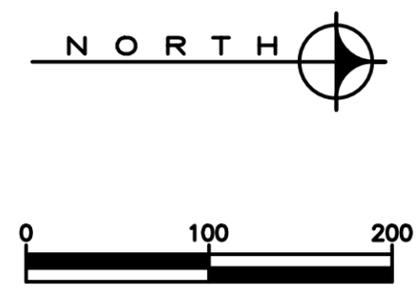


FRANKLIN ST (CAMBRIDGE BLVD TO PLYMOUTH RD)
 SEE CROSS SECTION ON SHEET 38





GLADSTONE AVE (WEALTHY ST TO ROBINSON RD)
 SEE CROSS SECTION ON SHEET 37

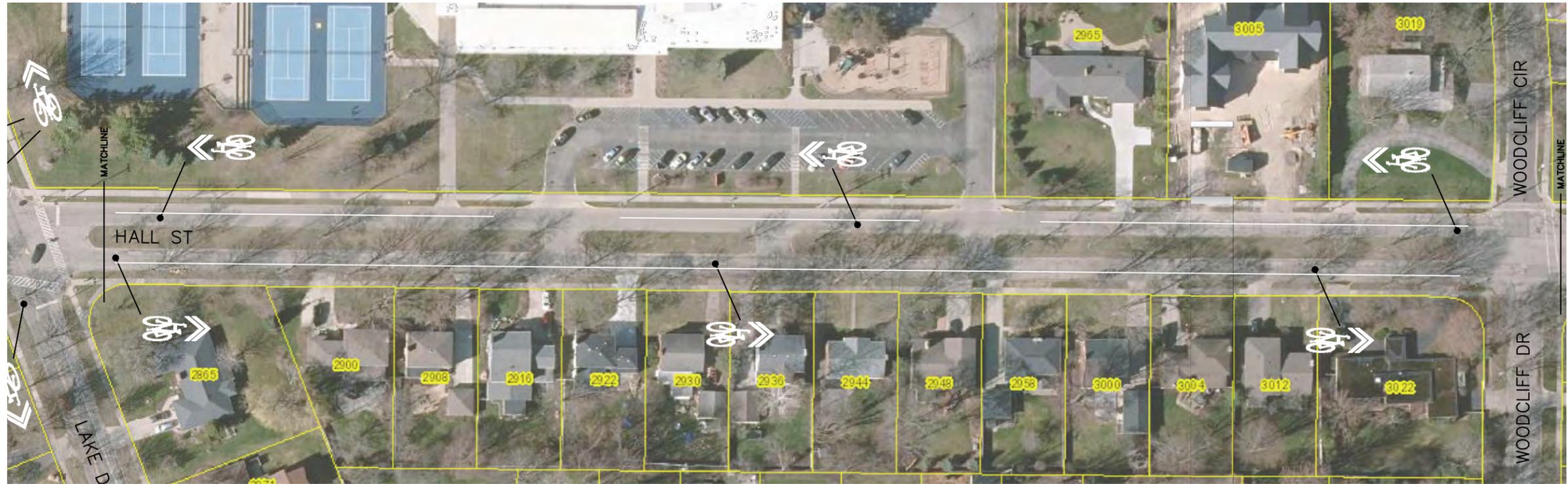


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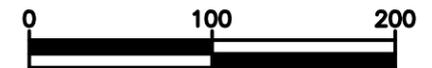
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HALL ST (LAKE DR TO WOODCLIFF CIR/DR)
 SEE CROSS SECTION ON SHEET 41



HALL ST (WOODCLIFF CIR/DR TO CITY LIMITS)
 SEE CROSS SECTION ON SHEET 41

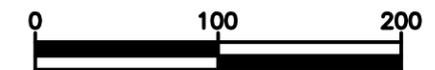
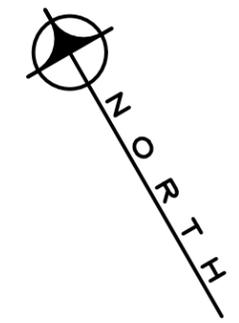




LAKE DR (LAKESIDE DR/BRETON RD TO KENESAW DR)
 SEE CROSS SECTION ON SHEET 45

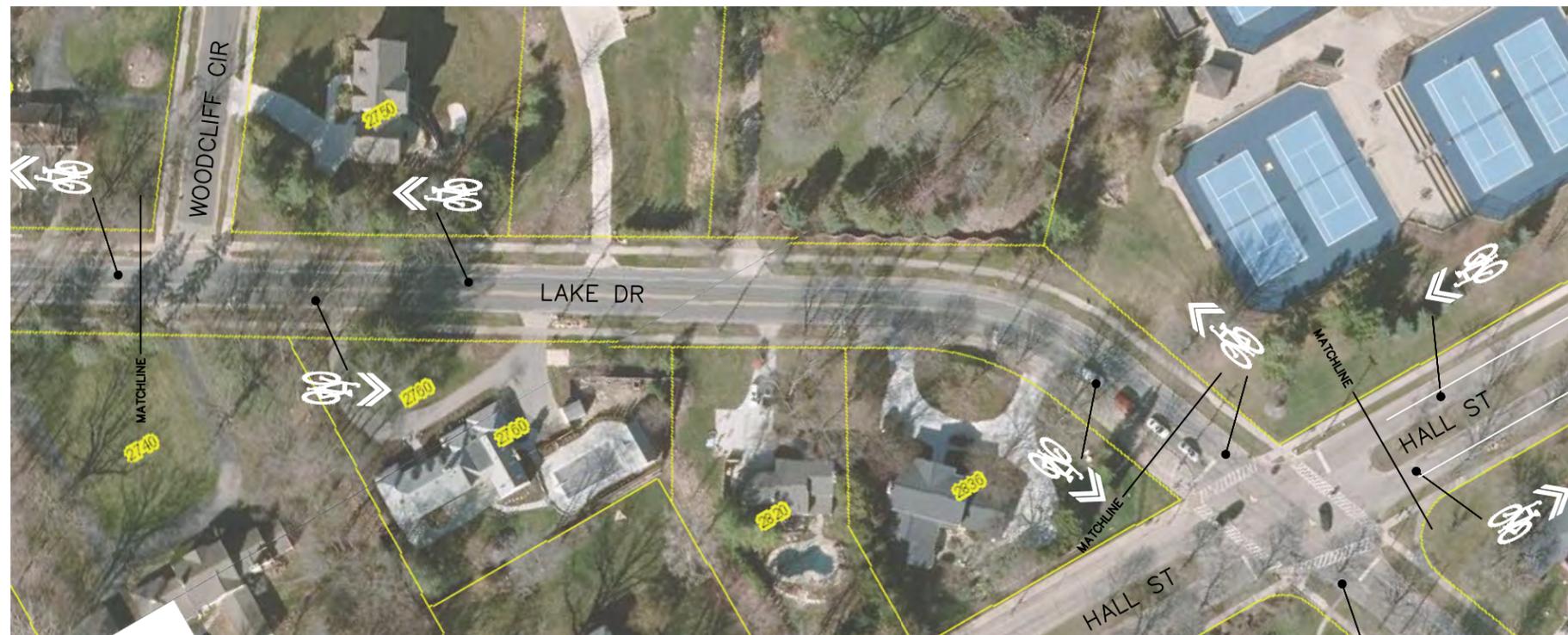


LAKE DR (KENESAW DR TO PRINCETON BLVD)
 SEE CROSS SECTION ON SHEET 45

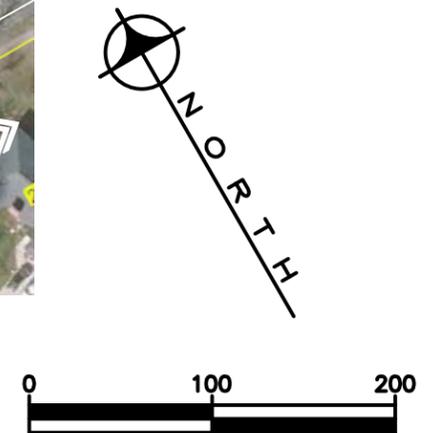




LAKE DR (PRINCETON BLVD TO WOODCLIFF CIR)
 SEE CROSS SECTION ON SHEET 45



LAKE DR (WOODCLIFF CIR TO HALL ST)
 SEE CROSS SECTION ON SHEET 44

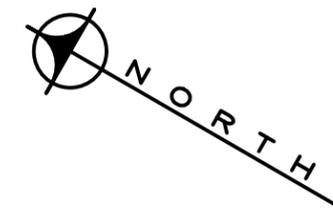




LAKE DR (HALL ST TO OAKWOOD DR)
 SEE CROSS SECTION ON SHEET 44



LAKE DR (OAKWOOD DR TO ELMWOOD DR)
 SEE CROSS SECTION ON SHEET 44

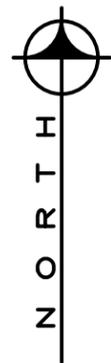


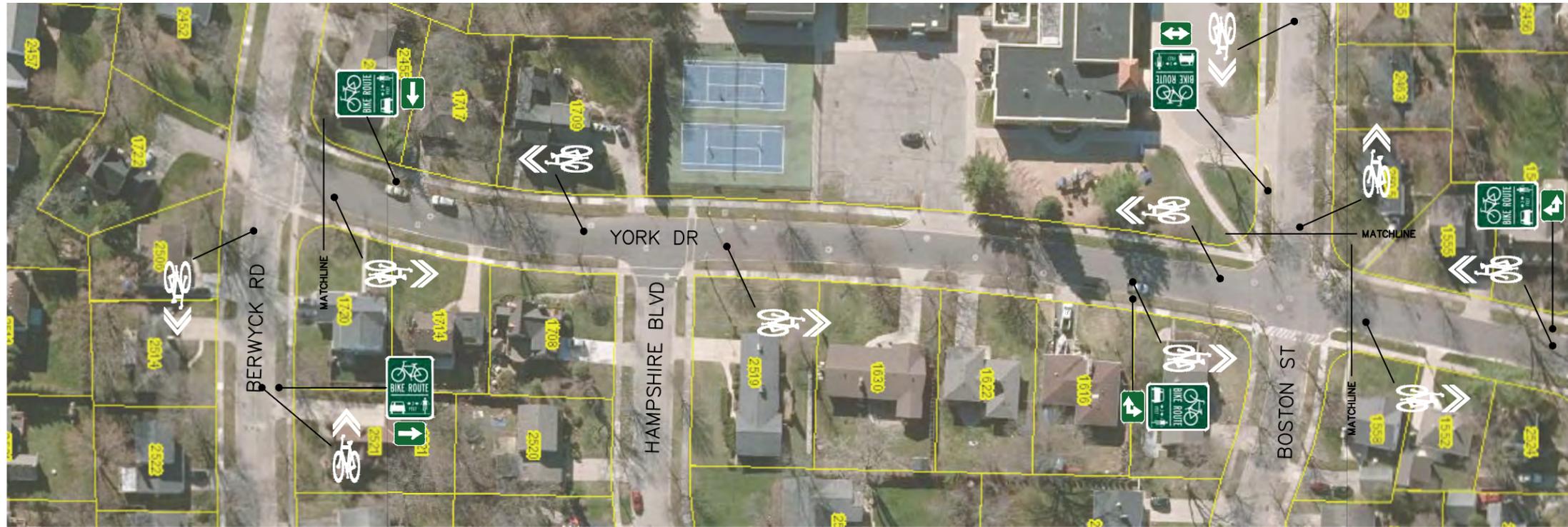


LAKE DR (ELMWOOD DR TO WOODCLIFF DR)
 SEE CROSS SECTION ON SHEET 43



LAKE DR (WOODCLIFF DR TO CITY LIMITS)
 SEE CROSS SECTION ON SHEET 42/SHEET 43





YORK DR (BERWYCK RD TO BOSTON ST)
 SEE CROSS SECTION ON SHEET 39



LAKE GROVE AVE (BOSTON ST TO MAPLEWOOD DR)
 SEE CROSS SECTION ON SHEET 39

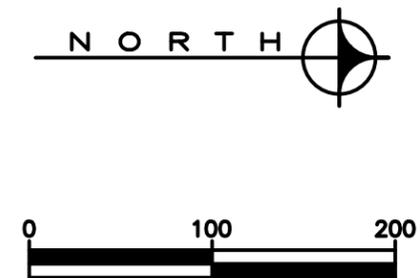




LAKE GROVE AVE (MAPLEWOOD DR TO OAKWOOD DR)
 SEE CROSS SECTION ON SHEET 39



LAKE GROVE AVE (OAKWOOD DR TO HALL ST)
 SEE CROSS SECTION ON SHEET 39





LAKE GROVE AVE (HALL ST TO EL DORADO DR)
 SEE CROSS SECTION ON SHEET 39



LAKE GROVE AVE (EL DORADO DR TO LAKE DR)
 SEE CROSS SECTION ON SHEET 39





LAKESIDE DR (LAKE DR TO WEALTHY ST)
 SEE CROSS SECTION ON SHEET 39



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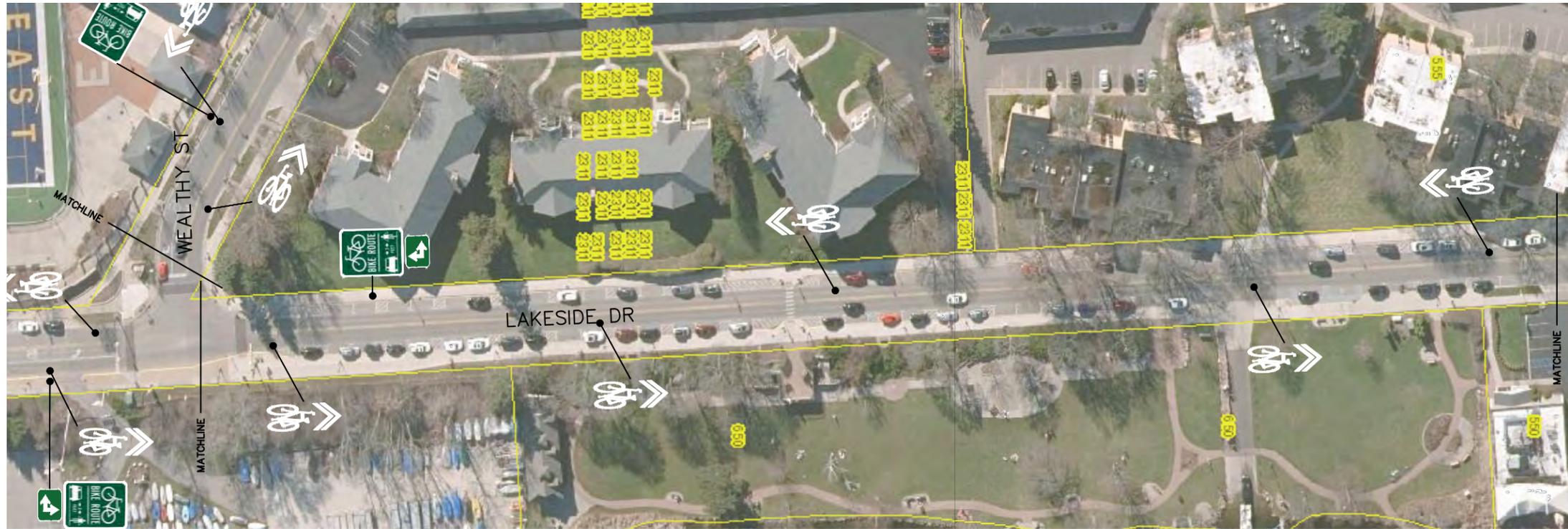
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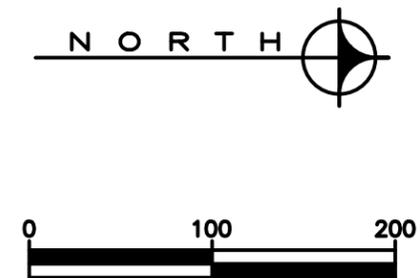
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LAKESIDE DR (WEALTHY ST TO 550 LAKESIDE DR)
 SEE CROSS SECTION ON SHEET 39

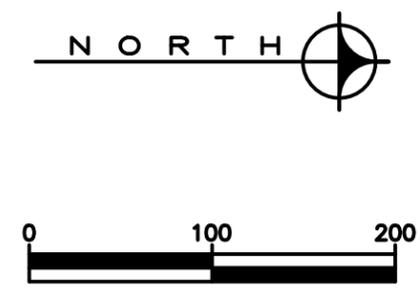


LAKESIDE DR (550 LAKESIDE DR TO REEDS LAKE BLVD)
 SEE CROSS SECTION ON SHEET 39





MANHATTAN RD (REEDS LAKE BLVD TO REEDS LAKE BLVD)
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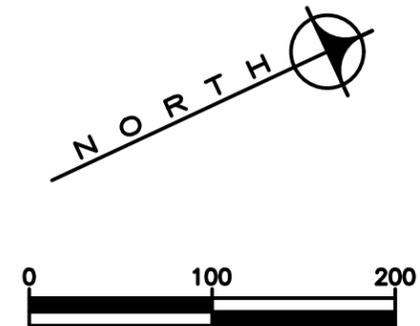
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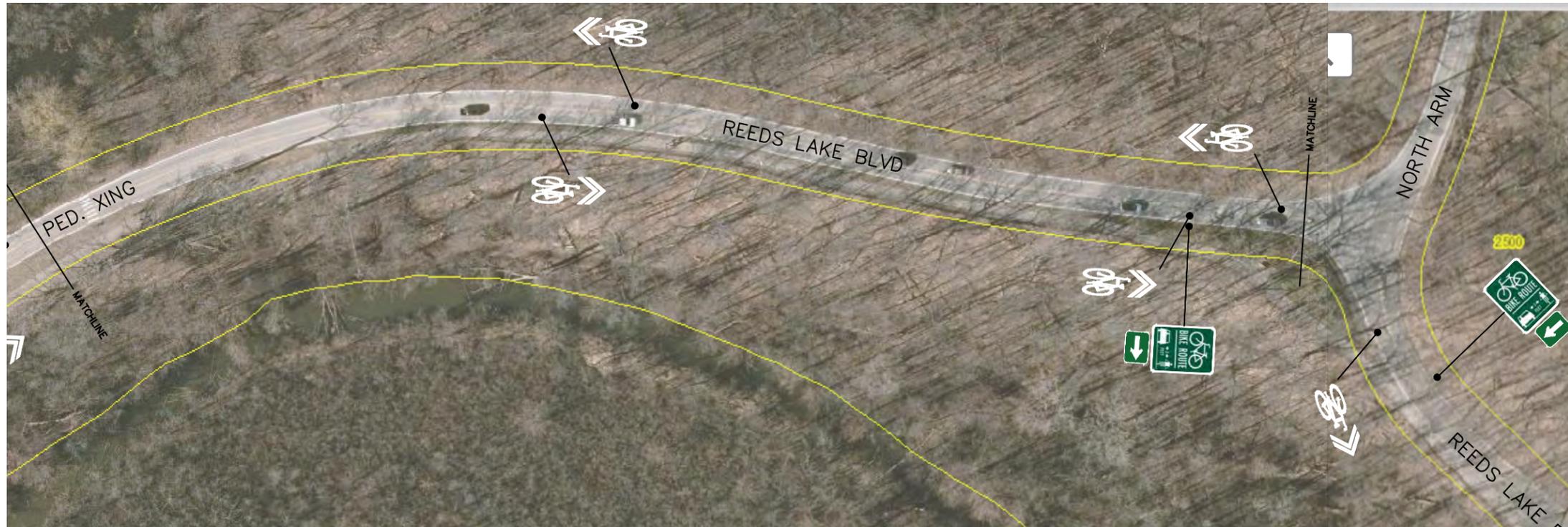


REEDS LAKE BLVD (LAKESIDE DR TO BRIDGE)
SEE CROSS SECTION ON SHEET 46

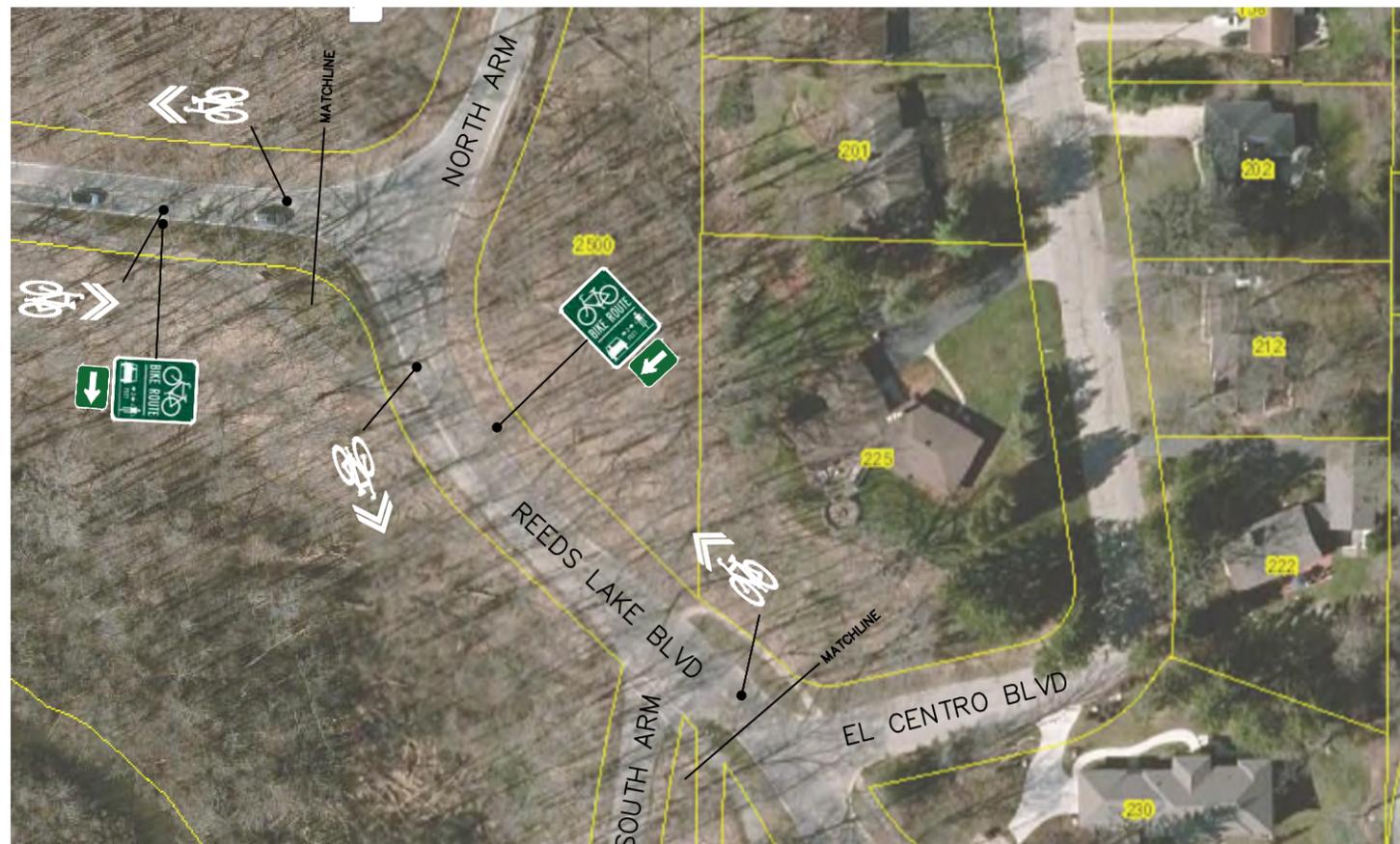


REEDS LAKE BLVD (BRIDGE TO PEDESTRIAN CROSSING)
SEE CROSS SECTION ON SHEET 46





REEDS LAKE BLVD (PEDESTRIAN CROSSING TO NORTH ARM)
 SEE CROSS SECTION ON SHEET 46



REEDS LAKE BLVD (NORTH ARM TO EL CENTRO BLVD)
 SEE CROSS SECTION ON SHEET 39



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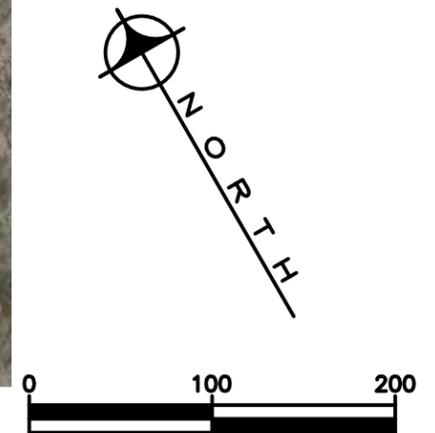
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REEDS LAKE BLVD (EL CENTRO BLVD TO HODENPYL DR)
 SEE CROSS SECTION ON SHEET 39



REEDS LAKE BLVD (HODENPYL DR TO GRACEWOOD DR)
 SEE CROSS SECTION ON SHEET 39

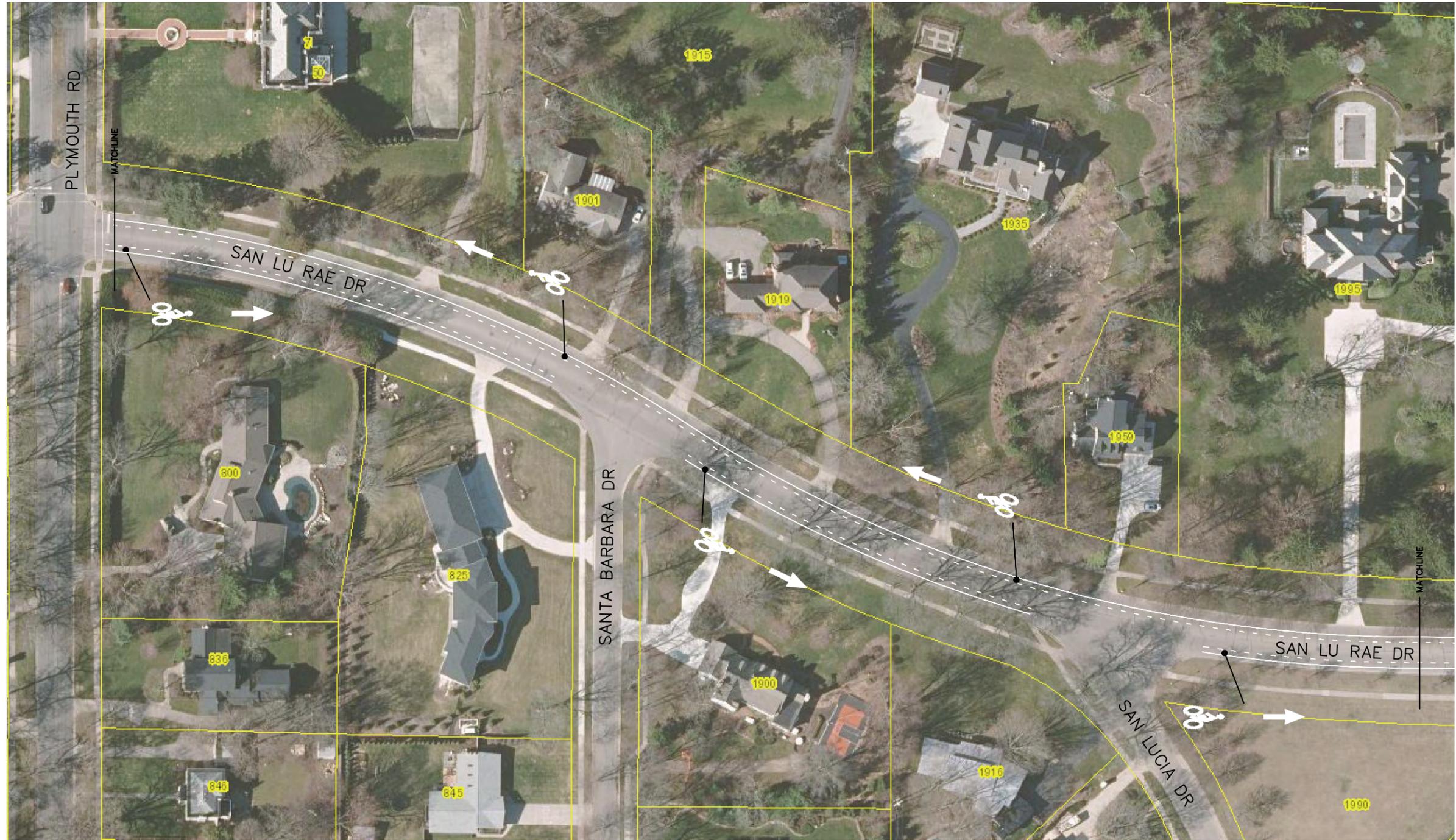


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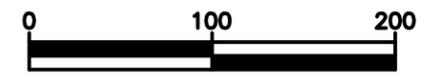
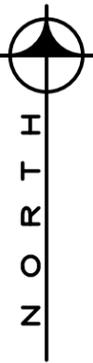


SAN JOSE DR (ARGENTINA DR TO SAN LU RAE DR)
 SEE CROSS SECTION ON SHEET 39





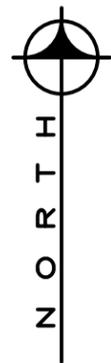
SAN LU RAE DR (PLYMOUTH RD TO SAN LUCIA DR)
 SEE CROSS SECTION ON SHEET 38



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SAN LU RAE DR (SAN LUCIA DR TO LAKE DR)
 SEE CROSS SECTION ON SHEET 38

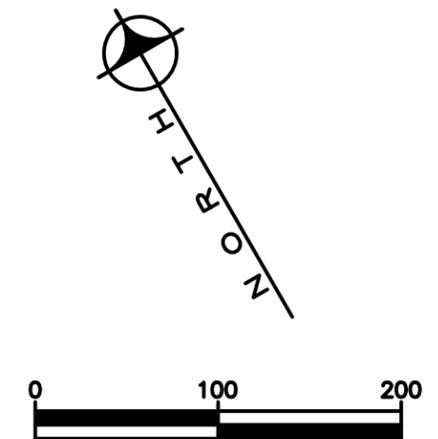




WEALTHY ST (LOVETT AVE TO BAGLEY ST)
 SEE CROSS SECTION ON SHEET 39



WEALTHY ST (BAGLEY ST TO LAKESIDE DR)
 SEE CROSS SECTION ON SHEET 39



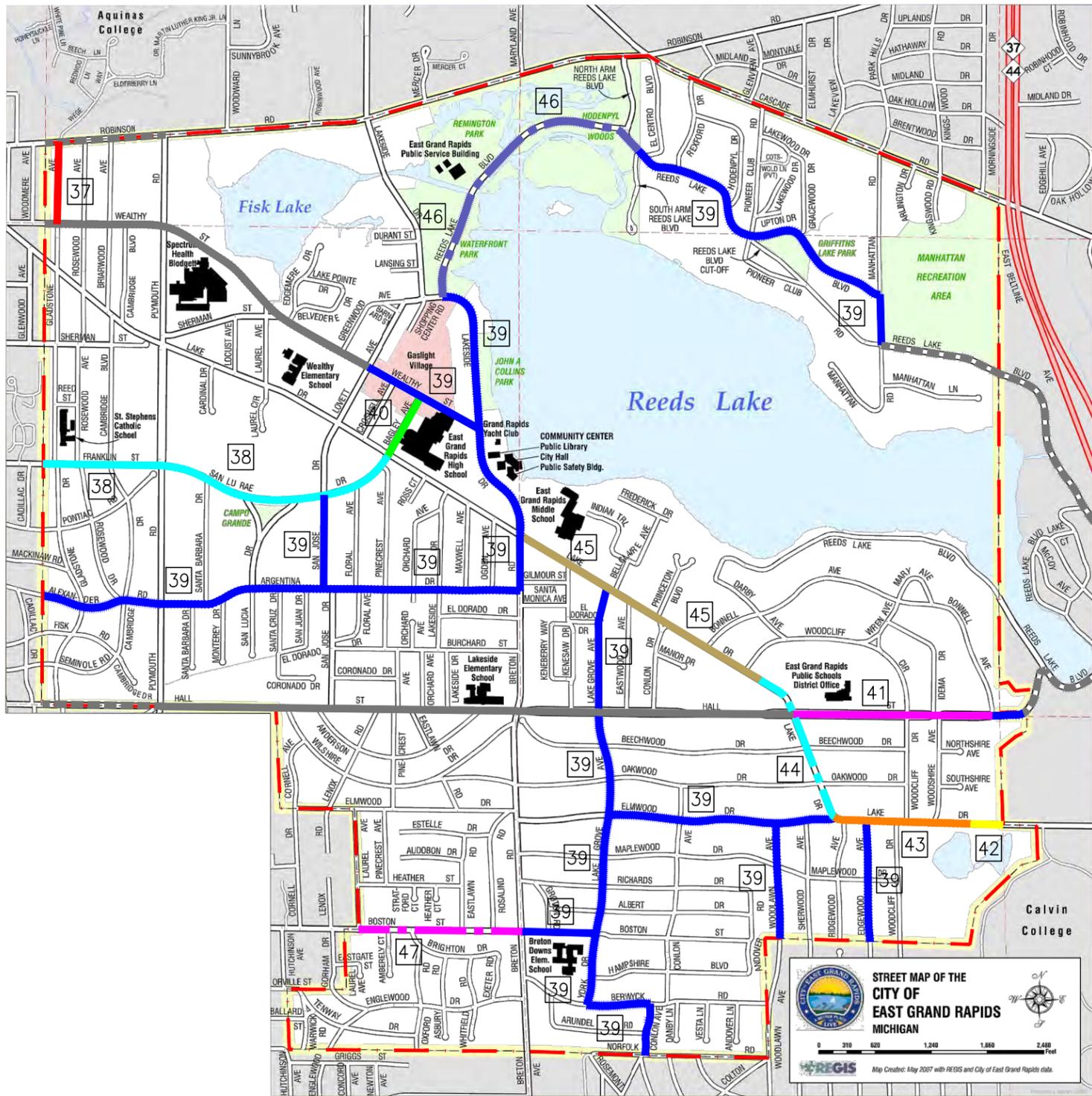


WOODLAWN AVE (CITY LIMITS TO MAPLEWOOD DR)
 SEE CROSS SECTION ON SHEET 39



WOODLAWN AVE (MAPLEWOOD DR TO ELMWOOD DR)
 SEE CROSS SECTION ON SHEET 39

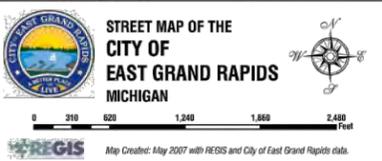




LEGEND: PROPOSED CROSS SECTION

- CROSS SECTION #1
- CROSS SECTION #2
- CROSS SECTION #3
- CROSS SECTION #4
- CROSS SECTION #5
- CROSS SECTION #6
- CROSS SECTION #7
- CROSS SECTION #8
- CROSS SECTION #9
- CROSS SECTION #10
- CROSS SECTION #11
- EX. EGR MULTI-USE, BICYCLE, OR PED FACILITIES
- FUTURE BIKE MOBILITY PROJECT
- CITY LIMITS

SHEET INDEX – CROSS SECTIONS	
SHEET	DESCRIPTION
37	CROSS SECTION #1
38	CROSS SECTION #2
39	CROSS SECTION #3
40	CROSS SECTION #4
41	CROSS SECTION #5
42	CROSS SECTION #6
43	CROSS SECTION #7
44	CROSS SECTION #8
45	CROSS SECTION #9
46	CROSS SECTION #10
47	CROSS SECTION #11

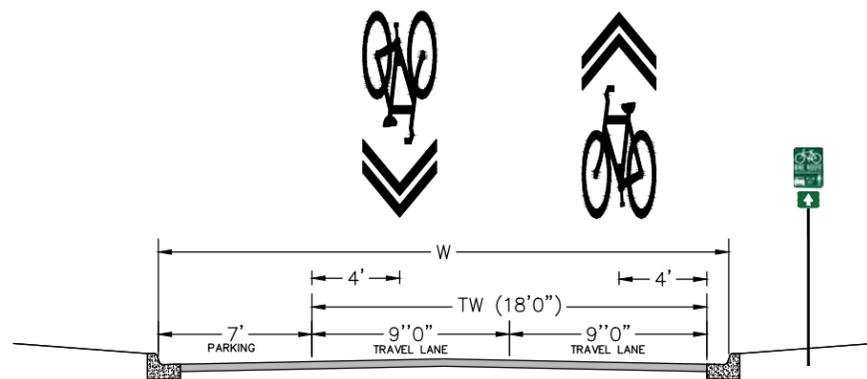


DRAWN BY DATE
 JLH 4/4/22

CHECKED BY DATE
 JLH 4/4/22

PROJECT NUMBER
 1060

SHEET NUMBER
 36 of 48

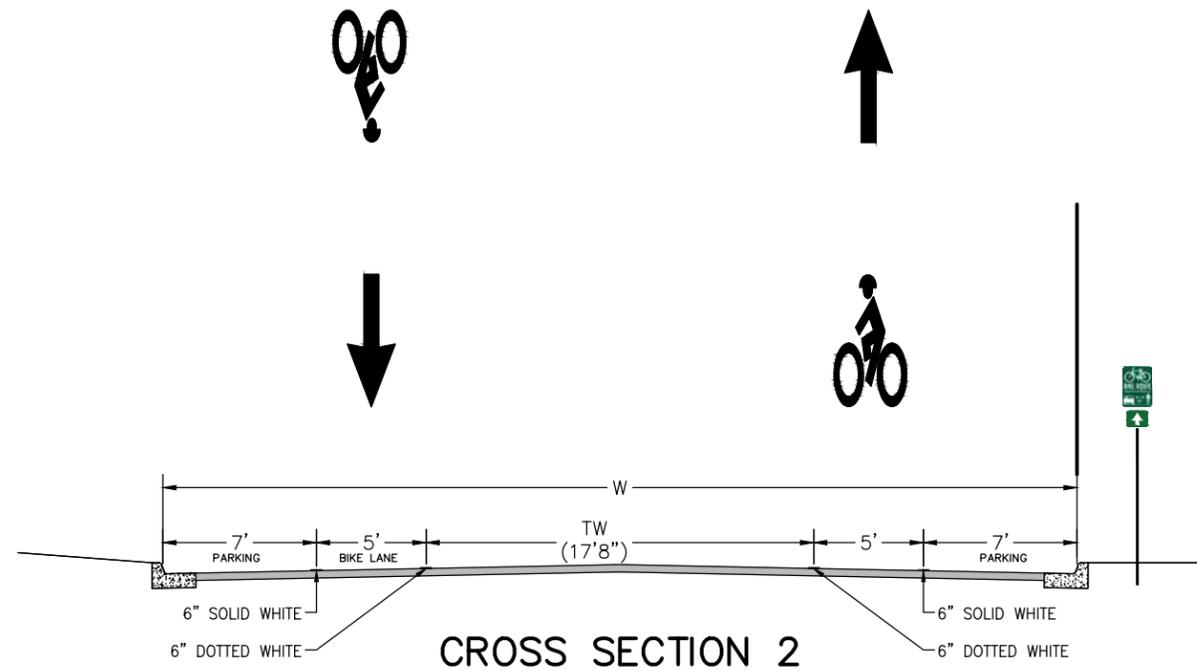


CROSS SECTION 1

CROSS SECTION 1 – INDEX			
STREET NAME	WIDTH (W)	TRAVEL WIDTH (TW)	PARKING WIDTH
GLADSTONE AVE (WEALTHY ST TO ROBINSON RD)	26'0"	18'0"	7'



EXAMPLE LOCATION: OAKLAND AVE & LAUREL ST

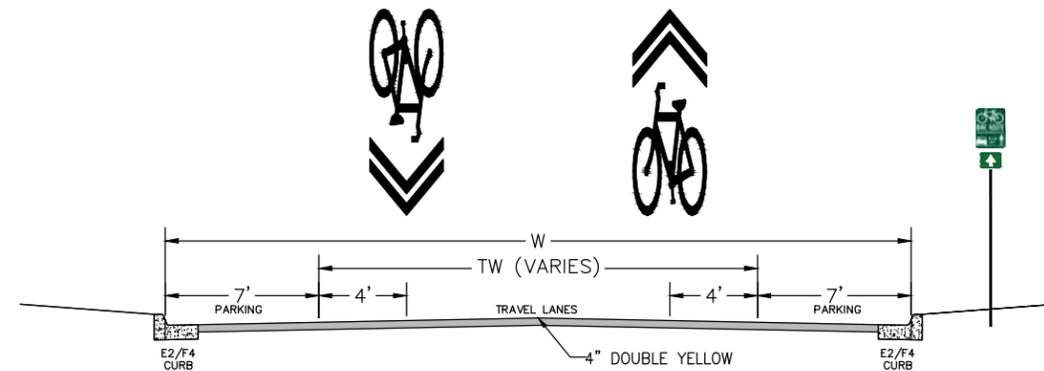


CROSS SECTION 2 – INDEX			
STREET NAME	WIDTH (W)	TRAVEL WIDTH (TW)	PARKING WIDTH
FRANKLIN ST (CITY LIMIT TO PLYMOUTH RD)	41'8"	17'8"	7' / 7'
SAN LU RAE DR (PLYMOUTH RD TO LAKE DR)	41'8"	17'8"	7' / 7'



EXAMPLE LOCATION: JEFFERSON AVE & BROWN ST





CROSS SECTION 3

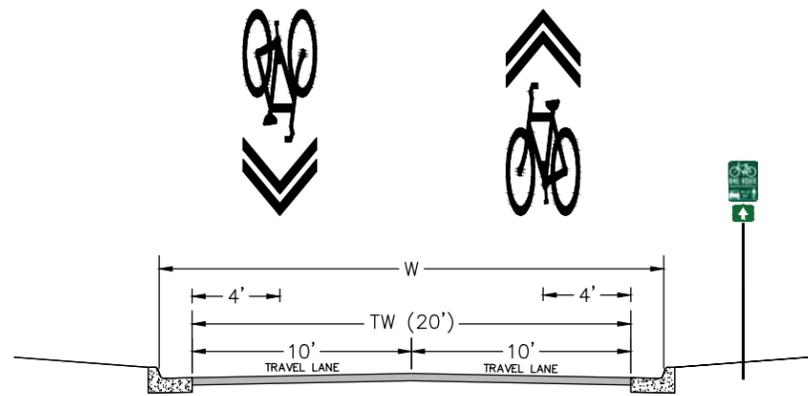
CROSS SECTION 3 – INDEX			
STREET NAME	WIDTH (W)	TRAVEL WIDTH (TW)	PARKING WIDTH
ALEXANDER RD (CITY LIMIT TO PLYMOUTH RD)	34'6"	20'6"	7' / 7'
ARGENTINA DR (PLYMOUTH RD TO ORCHARD AVE)	30'0"	16'0"	7' / 7'
ARGENTINA DR (ORCHARD AVE TO BRETON RD)	26'0"	12'0"	7' / 7'
BERWYCK RD (YORK DR TO CONLON AVE)	29'11"	15'11"	7' / 7'
BOSTON ST (BRETON RD TO LAKE GROVE AVE)	30'0"	16'0"	7' / 7'
BRETON RD (ARGENTINA DR TO LAKE DR)	34'2"	20'2"	7' / 7'
CONLON AVE (CITY LIMITS TO BERWYCK RD)	29'10"	15'10"	7' / 7'
EDGEWOOD AVE (CITY LIMITS TO LAKE DR)	30'0"	16'0"	7' / 7'
ELMWOOD DR (LAKE GROVE AVE TO LAKE DR)	30'0"	16'0"	7' / 7'
HALL ST (CITY LIMITS TO BONNELL AVE)	29'0"	15'0"	7' / 7'
LAKE GROVE (BOSTON ST TO ALBERT DR)	30'5"	16'5"	7' / 7'
LAKE GROVE (ALBERT DR TO RICHARDS DR)	26'3"	12'3"	7' / 7'
LAKE GROVE (RICHARDS DR TO LAKE DR)	30'0"	16'0"	7' / 7'
LAKESIDE DR (LAKE DR TO REEDS LAKE BLVD)	40'0"	23'0"	*8'6" / *8'6"
MANHATTAN RD (REEDS LAKE BLVD TO REEDS LAKE BLVD)	34'6"	20'6"	7' / 7'
REEDS LAKE BLVD (NORTH ARM TO MANHATTAN RD)	30'0"	16'0"	7' / 7'
SAN JOSE DR (ARGENTINA DR TO SAN LU RAE DR)	30'4"	16'4"	7' / 7'
WEALTHY ST (LOVETT AVE TO LAKESIDE DR)	40'0"	22'0"	*9' / *9'
WOODLAWN AVE (CITY LIMITS TO ELMWOOD DR)	30'0"	16'0"	7' / 7'
YORK DR (BERWYCK RD TO BOSTON ST)	30'5"	16'5"	7' / 7'

*PARKING WIDTH MATCHES EXISTING GEOMETRIC CONFIGURATION AND IS LOCATED IN A HEAVILY UTILIZED BUSINESS/RECREATIONAL PARKING CORRIDOR



EXAMPLE LOCATION: LAKE DR & DWIGHT AVE

NOTE: 4" DOUBLE YELLOW ONLY PRESENT ON LAKESIDE DR (LAKE DR TO REEDS LAKE BLVD) AND WEALTHY ST (LOVETT AVE TO LAKESIDE DR)



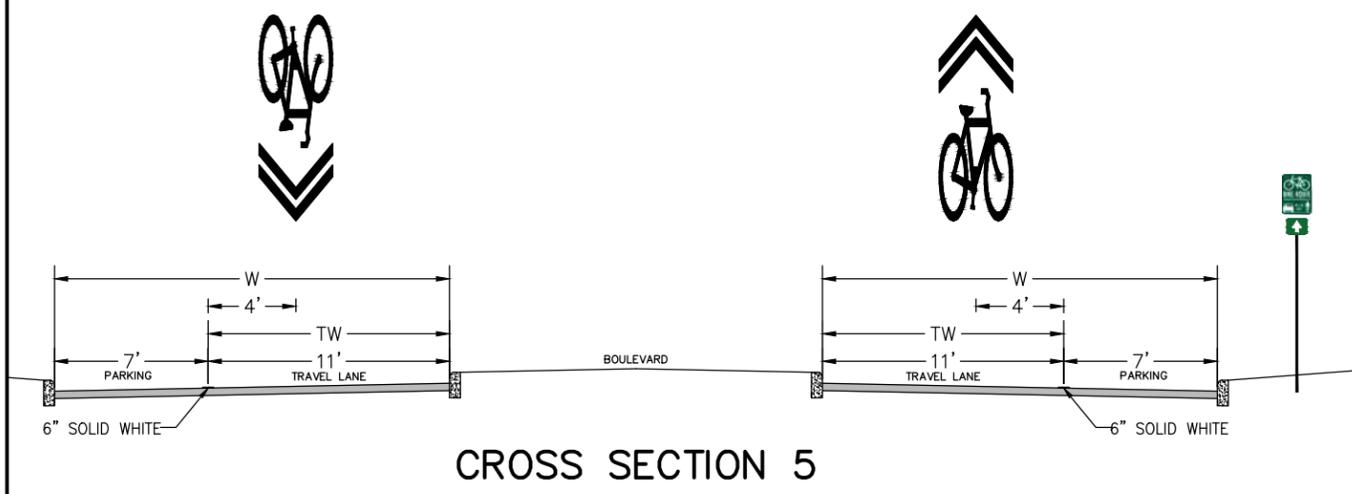
CROSS SECTION 4

CROSS SECTION 4 – INDEX		
STREET NAME	WIDTH (W)	TRAVEL WIDTH (TW)
BAGLEY (LAKE DR TO WEALTHY ST)	23'0"	20'0"



EXAMPLE LOCATION: CHERRY ST & SHELDON BLVD

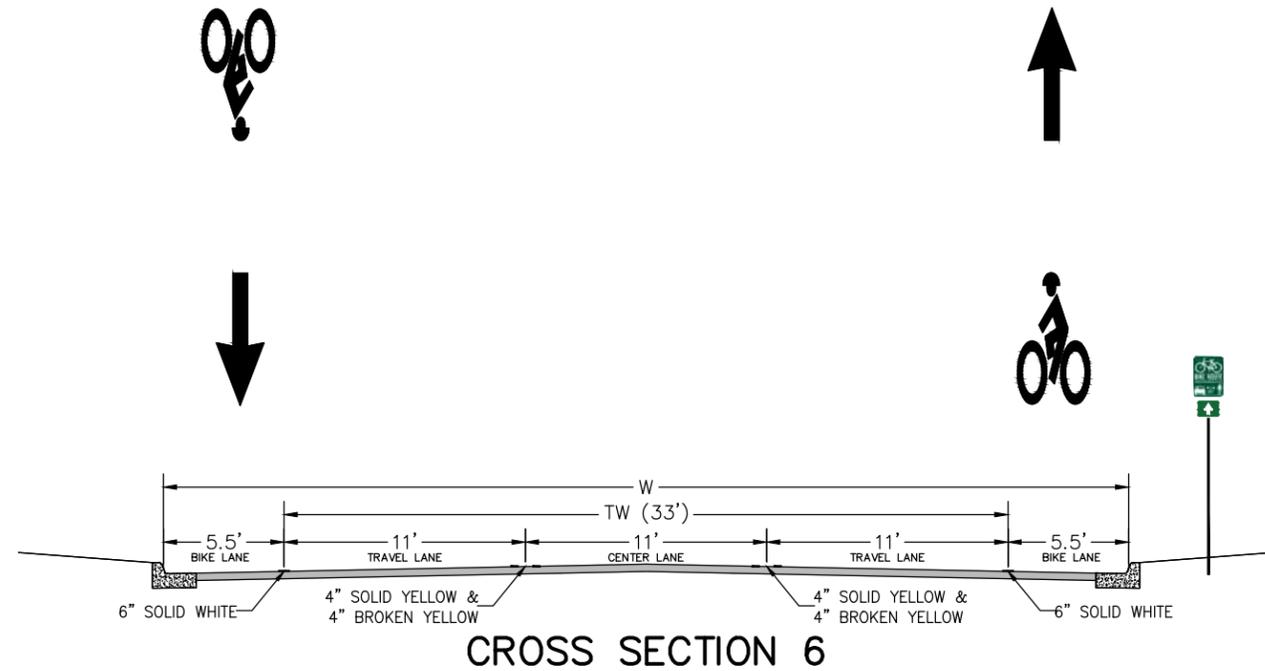
NOTE: 4" DOUBLE YELLOW SHOWN ABOVE IS NOT PROPOSED ON BAGLEY AVE (LAKE DR TO WEALTHY ST)



EXAMPLE LOCATION: HALL ST & BRETON RD

CROSS SECTION 5 – INDEX			
STREET NAME	WIDTH (W)	TRAVEL WIDTH (TW)	PARKING WIDTH
HALL ST (LAKE DR TO CITY LIMIT)	18'0"	11'0"	7' / 7'

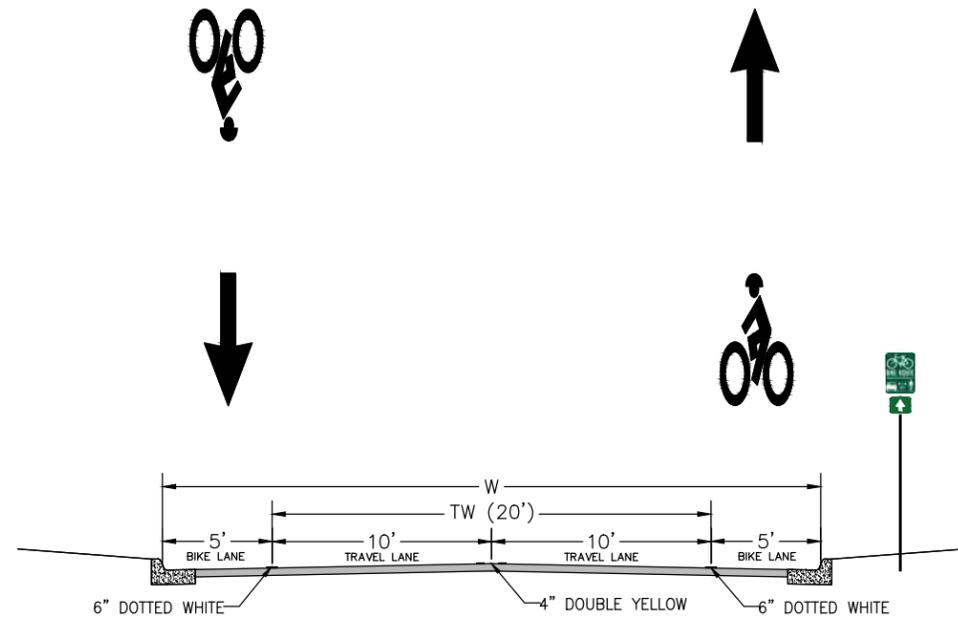




CROSS SECTION 6 - INDEX		
STREET NAME	WIDTH (W)	TRAVEL WIDTH (TW)
LAKE DR (TAPER TO CITY LIMIT)	44'0"	33'0"



EXAMPLE LOCATION: LAKE DR & CALVIN UNIVERSITY
 (N. ENTRANCE)



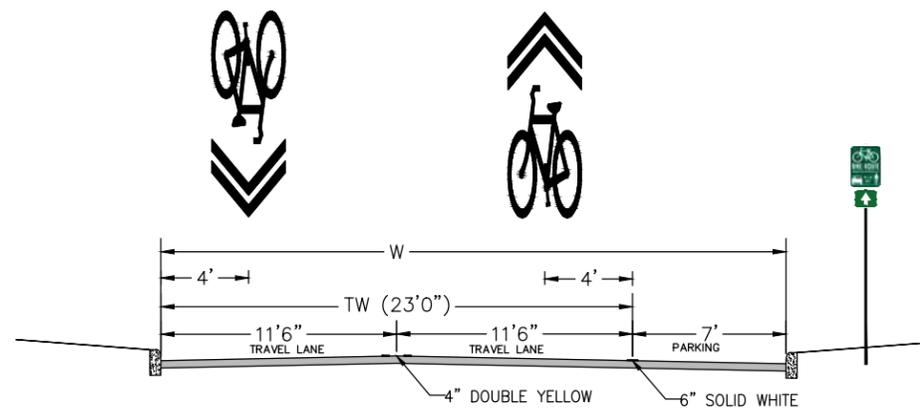
CROSS SECTION 7

CROSS SECTION 7 – INDEX		
STREET NAME	WIDTH (W)	TRAVEL WIDTH (TW)
LAKE DR (RIDGEWOOD AVE TO TAPER)	30'0"	20'0"



EXAMPLE LOCATION: LEFFINGWELL AVE & OAK INDUSTRIAL DR

NOTE: 6" DOTTED WHITE IS PROPOSED IN-LIEU OF SOLID WHITE SHOWN



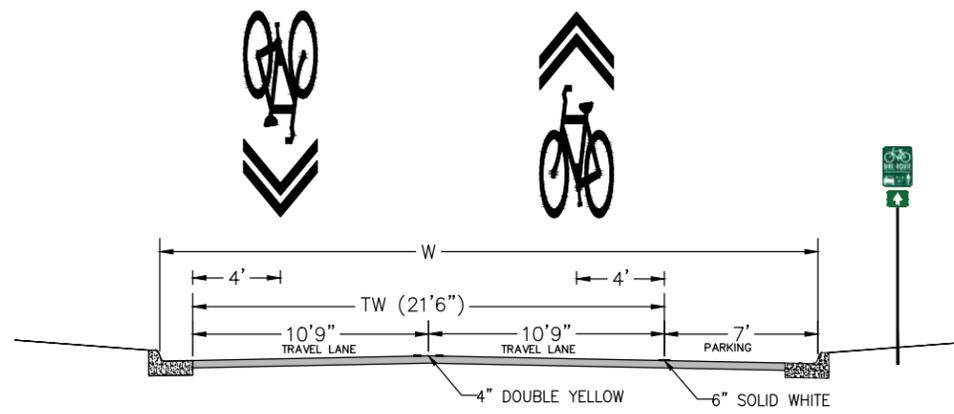
CROSS SECTION 8

CROSS SECTION 8 - INDEX			
STREET NAME	WIDTH (W)	TRAVEL WIDTH (TW)	PARKING WIDTH
LAKE DR (ELMWOOD DR TO 100' E. WOODCLIFF CIR)	30'0"	23'0"	7'



EXAMPLE LOCATION: KNAPP ST & LAFAYETTE AVE

NOTE: 6" SOLID WHITE IS MISSING ABOVE



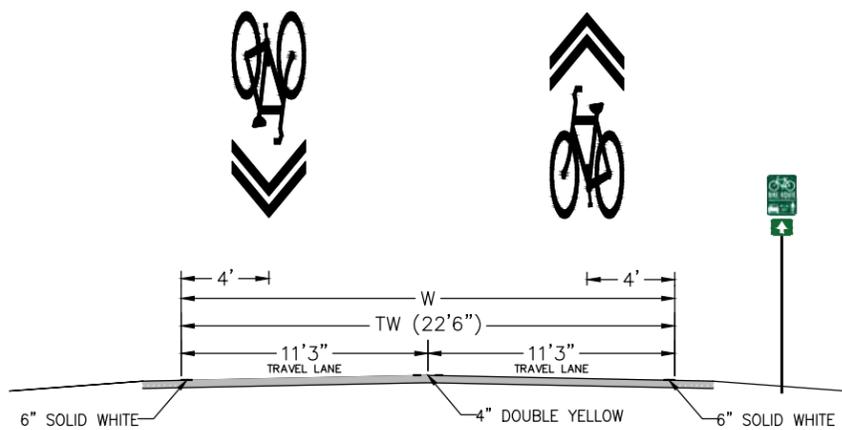
CROSS SECTION 9

CROSS SECTION 9 - INDEX			
STREET NAME	WIDTH (W)	TRAVEL WIDTH (TW)	PARKING WIDTH
LAKE DR (100' E. WOODCLIFF CIR TO LAKESIDE DR)	30'0"	21'6"	7'



EXAMPLE LOCATION: FRANKLIN ST & CADILLAC DR

NOTE: 6" SOLID WHITE IS MISSING ABOVE

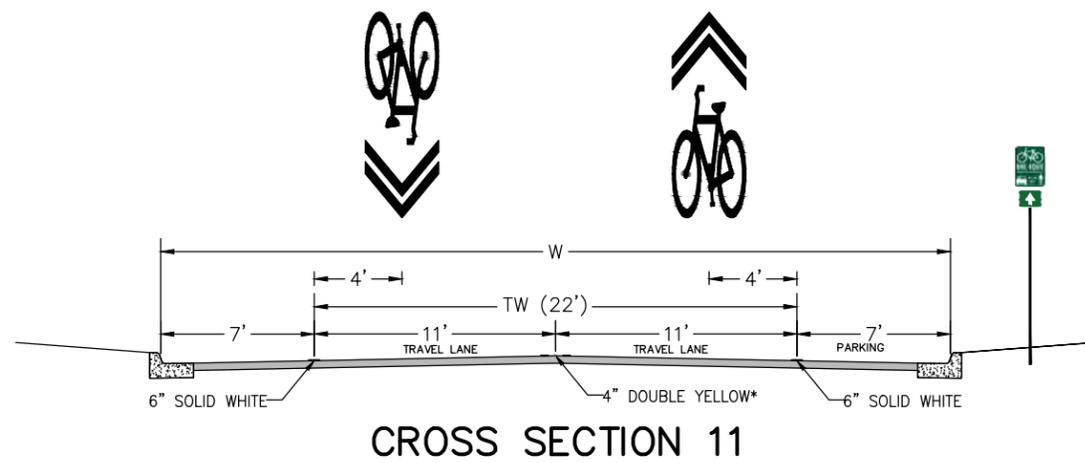


CROSS SECTION 10

CROSS SECTION 10 - INDEX		
STREET NAME	WIDTH (W)	TRAVEL WIDTH (TW)
REEDS LAKE BLVD (LAKESIDE DR TO REEDS LAKE CT)	22'6"	22'6"



EXAMPLE LOCATION: RICHMOND ST & ACACIA DR

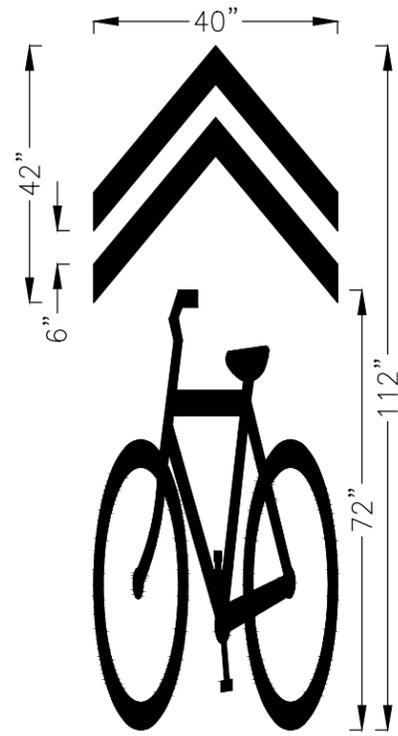


CROSS SECTION 11

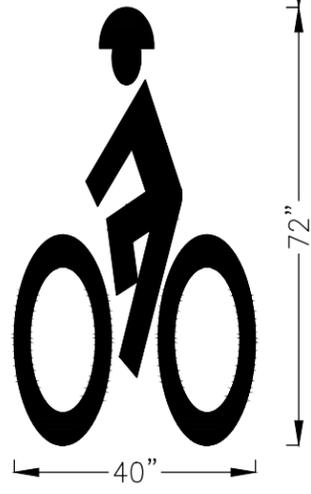
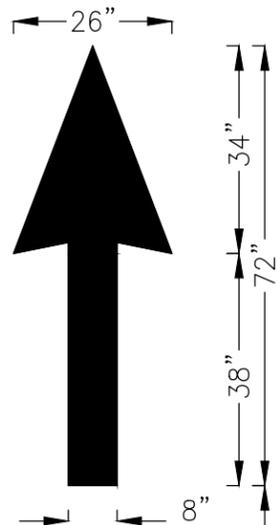
CROSS SECTION 11 - INDEX			
STREET NAME	WIDTH (W)	TRAVEL WIDTH (TW)	PARKING WIDTH
BOSTON ST (CITY LIMITS TO BRETON RD)	36'0"	22'0"	7' / 7'



EXAMPLE LOCATION: BROADWAY AVE & 6TH ST



SHARED LANE MARKING



BIKE LANE MARKING



D11-1 (MOD.)



M6-3



M6-1R



M6-1L



M6-4

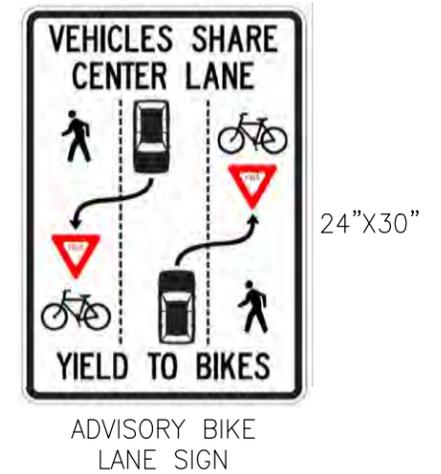


M6-6R



M6-6L

BIKE ROUTE SIGNS



ADVISORY BIKE LANE SIGN