



WILMAPCO NEWARK AREA TRANSIT NEEDS ASSESSMENT STUDY

Existing Conditions Workshop – October 02, 2018



AGENDA

1. Mapping Review
2. Survey Progress and Results
3. Data Analysis
4. Public Outreach
5. Next Steps/Next Meeting

MAPPING REVIEW

MAPS CREATED

- Transit Routes
- Median Annual Household Income
- Poverty
- Minority Population
- Disabled Population
- Senior Population (65+)
- Youth Population (17 and under)
- One-Car Households
- Zero-Car Households
- Zero-or One-Car Households
- Employment Change 2002-2010
- Employment Change 2010-2015
- Employment 2012
- Employment 2015
- Enterprise and Opportunity Zones
- Household Density
- Key Destinations
- Existing Land Use
- Population Change 2010-2016
- Population Density
- Land Use: Residential Density
- Public Transit to Work
- AADT
- Identified Population Growth Areas 2020, 2030, 2040 (3 maps)

MAPPING REVIEW – NEW MAPS

- Transit Routes
- Median Annual Household Income
- Poverty
- Minority Population
- Disabled Population
- Senior Population (65+)
- Youth Population (17 and under)
- One-Car Households
- Zero-Car Households
- Zero-or One-Car Households
- Employment Change 2002-2010
- Employment Change 2010-2015
- Employment 2012
- Employment 2015
- Enterprise and Opportunity Zones
- Household Density
- Key Destinations
- Existing Land Use
- Population Change 2010-2016
- Population Density
- Land Use: Residential Density
- Public Transit to Work
- AADT
- Identified Population Growth Areas 2020, 2030, 2040 (3 maps)

MAPPING REVIEW – PUBLIC MEETING

- Transit Routes
- Median Annual Household Income
- Poverty
- Minority Population
- Disabled Population
- Senior Population (65+)
- Youth Population (17 and under)
- One-Car Households
- Zero-Car Households
- Zero-or One-Car Households
- Employment Change 2002-2010
- Employment Change 2010-2015
- Employment 2012
- Employment 2015
- Enterprise and Opportunity Zones
- Household Density
- Key Destinations
- Existing Land Use
- Population Change 2010-2016
- Population Density
- Land Use: Residential Density
- Public Transit to Work
- AADT
- Identified Population Growth Areas 2020, 2030, 2040 (3 maps)

SURVEY PROGRESS AND RESULTS

RESIDENT AND EMPLOYER SURVEYS


Wilmington Area Planning Council
Newark Area Transit Study
Newark Resident Survey

WILMAPCO, in partnership with DART First State, City of Newark, Cecil County Transit, and the University of Delaware Transit, is gathering and analyzing data and feedback to better understand the transit needs of those who live, work and attend school in Newark.

NEWARK TrIP
Transit Improvement Partnership

1. In which area of Newark do you live?

<input type="checkbox"/> 1	<input type="checkbox"/> 6
<input type="checkbox"/> 2	<input type="checkbox"/> 7
<input type="checkbox"/> 3	<input type="checkbox"/> 8
<input type="checkbox"/> 4	<input type="checkbox"/> 9
<input type="checkbox"/> 5	<input type="checkbox"/> 10
<input type="checkbox"/> None of these areas	



2. Do you work/go to school in Newark?

☐ Yes
☐ No

3. If yes, which Newark neighborhood do you work/go to school in? Using the map from Question #1.

<input type="checkbox"/> 1	<input type="checkbox"/> 6
<input type="checkbox"/> 2	<input type="checkbox"/> 7
<input type="checkbox"/> 3	<input type="checkbox"/> 8
<input type="checkbox"/> 4	<input type="checkbox"/> 9
<input type="checkbox"/> 5	<input type="checkbox"/> 10

4. If no, which town do you work/go to school in?

5. Which bus transit services in Newark are you familiar with? Please select all that apply.

☐ DART
☐ UNICITY
☐ Cecil Transit
☐ UD Shuttle
☐ None of these

6. Which best describes your familiarity with the bus transit services listed above?

☐ I don't know about these services
☐ I am aware of these transit services, but have never used any of them
☐ I use at least one of these transit services occasionally
☐ I use at least one of these transit services regularly
☐ Someone else in my household uses at least one of these transit services

SURVEY CONTINUES ON BACK

Please return to survey taker, fax to 302-737-9584, email jedulac@wilmingtonco.org, or mail to 850 Library Ave, Newark, DE 19711. Please call 302-737-6205 ext. 118 with any questions. Thank you!


Wilmington Area Planning Council
Newark Area Transit Study
Newark Employer Survey

Newark Employer Survey

WILMAPCO, in partnership with DART First State, City of Newark, Cecil County Transit, and the University of Delaware Transit, is gathering and analyzing data and feedback to better understand the transit needs of those who live, work and attend school in Newark.

1. What area of Newark is your business located in?

<input type="checkbox"/> 1	<input type="checkbox"/> 5
<input type="checkbox"/> 2	<input type="checkbox"/> 6
<input type="checkbox"/> 3	<input type="checkbox"/> 7
<input type="checkbox"/> 4	



2. About how many employees does your business have?

3. Which transit services are near your business? (Please select all that apply)

☐ DART
☐ UNICITY
☐ Cecil Transit
☐ UD Shuttle
☐ DART First State Paratransit
☐ SEPTA Regional Rail
☐ None of these
☐ Don't know/unsure

4. In meeting the community's transportation needs, would you say that local bus transit:

☐ Does a good job of meeting community transportation needs
☐ Does an adequate job
☐ Does a poor job
☐ I don't have an opinion

5. How could Newark best improve its bus transit services? (Select three)

☐ More frequent bus service
☐ Longer service hours on weekends
☐ Schedule more weekend service
☐ Routes extended or rerouted to serve other areas
☐ Improve on-time performance
☐ Better transfer coordination
☐ Safer bus stop locations
☐ Improved safety while on buses
☐ Enhancements to transit shelters/stations
☐ Real-time bus information
☐ Smartphone app with schedule times
☐ Better bus connections to SEPTA regional rail
☐ Add extra weekday train trips from Newark to other points in Delaware
☐ Schedule additional weekday service on Route 59 (Newark Station-Wilmington) to connect with SEPTA trains from Wilmington
☐ Run weekend service on Route 59 (Newark Station-Wilmington) to connect with SEPTA trains from Wilmington
☐ Other _____

EXISTING CONDITIONS ANALYSIS TRANSIT SYSTEM OPERATIONS

NEWARK AREA EXISTING TRANSIT SYSTEM OPERATIONS

- The City of Newark hosts six different transit operators offering both rail and bus transit service:
 - Cecil Transit – *inter-state service to Elkton*
 - DART – *inter-city service to Wilmington, Christiana, and Glasgow*
 - UNICITY – *circulator services around downtown Newark and surrounding areas*
 - University of Delaware Transportation – *circulator services around UD campus and surrounding areas with high concentration of students*
 - Amtrak – *regional rail service to Washington DC, Baltimore, Philadelphia, and New York City*
 - SEPTA (Wilmington/Newark Line Regional Rail) – *rail service to Wilmington and Philadelphia*

NEWARK AREA EXISTING TRANSIT SYSTEM OPERATIONS

- The City of Newark hosts six different transit operators offering both rail and bus transit service:

- Cecil Transit – *inter-state service to Elkton*
- DART – *inter-city service to Wilmington, Christiana, and Glasgow*
- UNICITY – *circulator services around downtown Newark and surrounding areas*
- University of Delaware Transportation – *circulator services around UD campus and surrounding areas with high concentration of students*

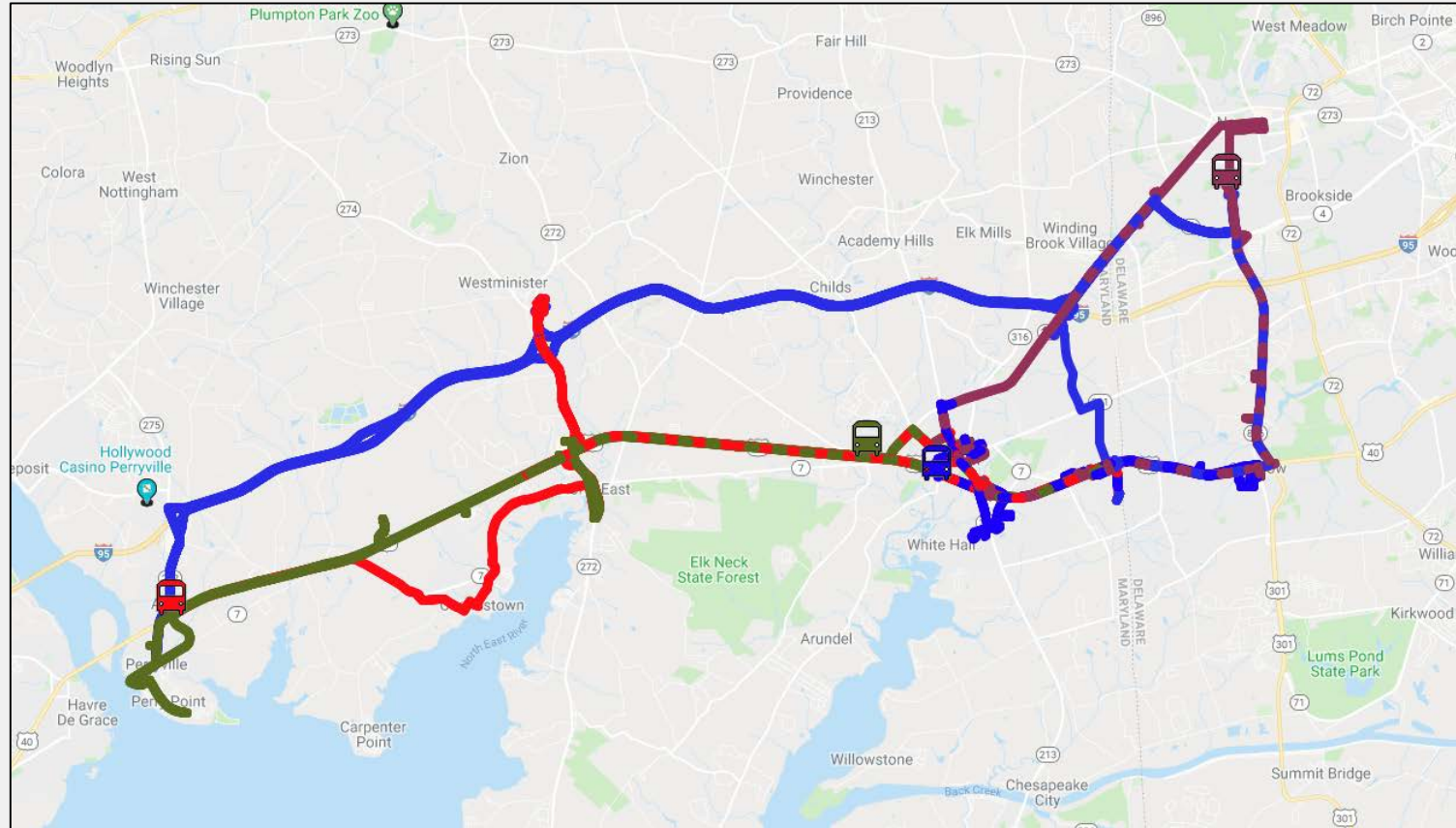
TRANSIT
SERVICES
INCLUDED
IN STUDY

- Amtrak – *regional rail service to Washington DC, Baltimore, Philadelphia, and New York City*
- SEPTA (Wilmington/Newark Line Regional Rail) – *rail service to Wilmington and Philadelphia*

EXISTING OPERATIONS ANALYSIS CECIL TRANSIT

CECIL TRANSIT SYSTEM

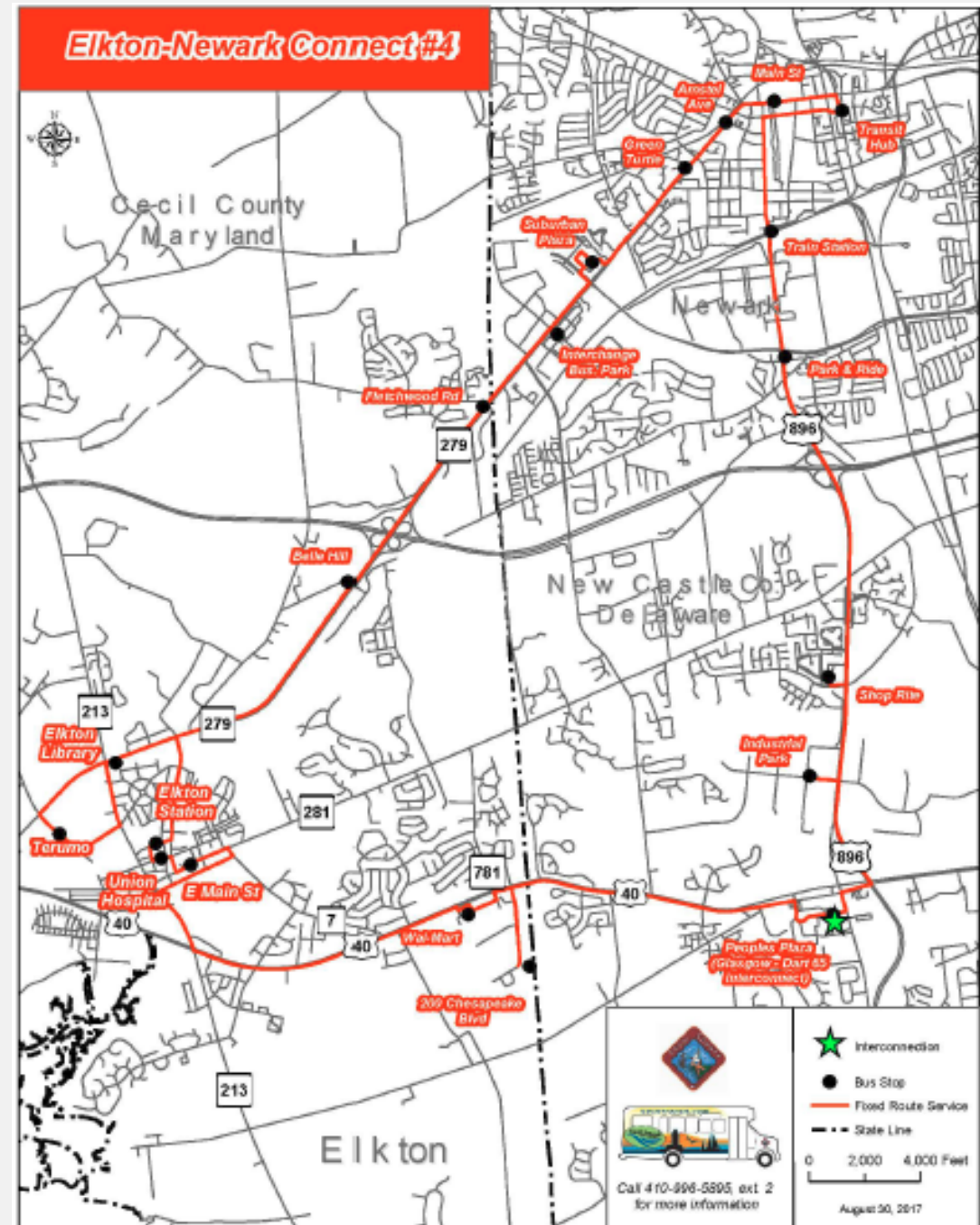
- Cecil Transit is based out of Elkton, Maryland and operate a total of five bus routes.
- Routes predominantly operate as medium-distance inter-city type routes to Perryville and Elkton in Maryland, and Newark and Glasgow in Delaware.
- Two bus routes operate into Newark, Delaware: Route 4 which provides service between Elkton, Newark, and Glasgow, and Route 5 which provides commuter service for Elkton residents to the SEPTA regional rail station in Newark.



CECIL TRANSIT ROUTE 4 - ELKTON NEWARK CONNECTION

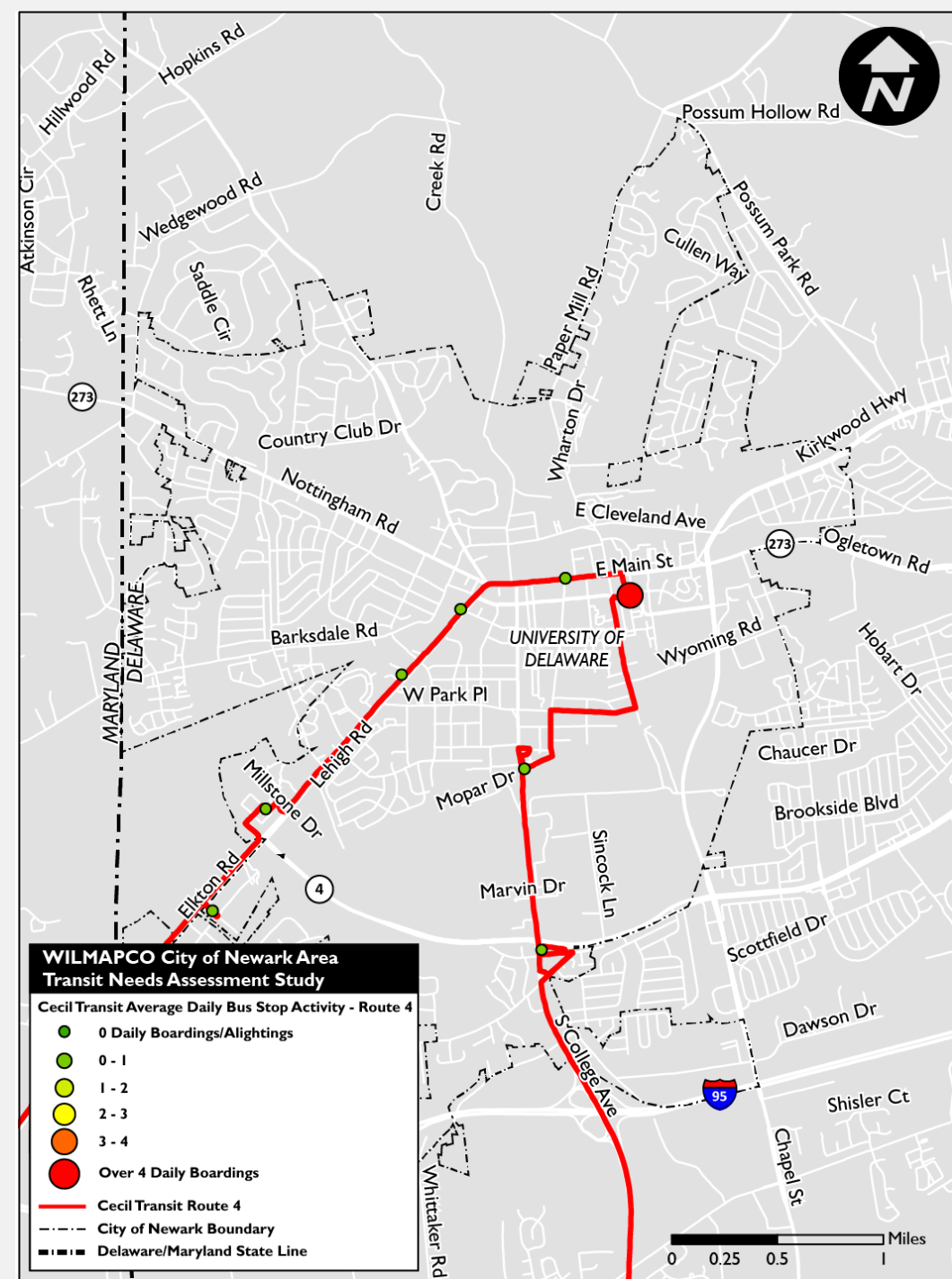
Annual Ridership (FY2018)	Passengers per Revenue Hour	Passengers per Mile	Average Daily Boardings
9,812	2.45	0.14	39

	Trips	Service Span	Peak Headway	Off-Peak Headway
Weekday	11.5	05:50–22:21	90	90
Saturday		NO SATURDAY SERVICE		
Sunday		NO SUNDAY SERVICE		



CECIL TRANSIT ROUTE 4 - ELKTON NEWARK CONNECTION

- Route loop between Elkton, Maryland and Newark and Glasgow in Delaware.
- Operates limited service on weekdays only with trips approximately every 90 minutes.
- Most popular stops in Newark area include the following:
 - Newark Transit Hub
- Average daily activity in Newark area is 13 boardings per day.



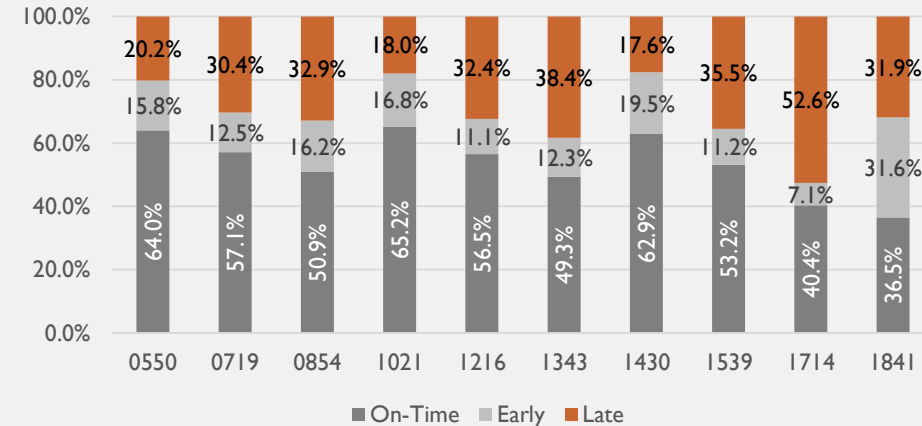
CECIL TRANSIT ROUTE 4 - ELKTON NEWARK CONNECTION

- On average, every Route 4 trip transports less than 4 riders with the 10:04PM departure carrying approximately 0 riders.
- Cecil Transit considers an early departure when a trip departs any time before scheduled departure time; a late arrival is when a trip arrives more than 5 minutes after scheduled arrival time
- Overall, no Route 4 trip operates at least 70 percent on-time
 - The highest on-time performance was the 10:21AM departure at 65.2 percent OTP
 - The worst performing route was the 6:41PM departure at 36.5 percent OTP
 - Early departures (average 2.2 minutes) may be an issue where agency consideration is needed in the short term

Cecil Transit Route 4 –
Average Daily Boardings by Trip (FY 2018)



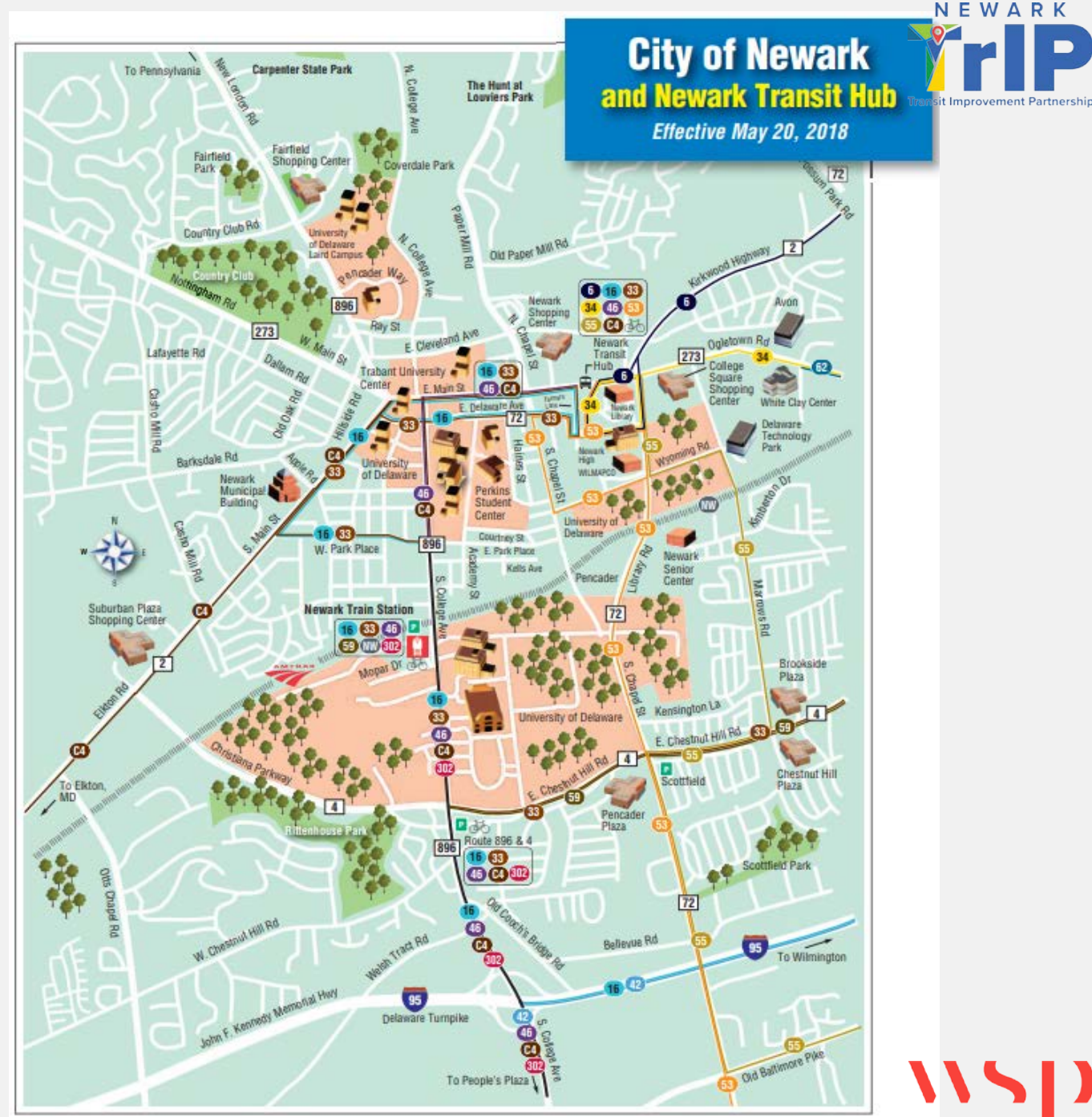
Cecil Transit Route 4 -
On-Time Performance by Trip (FY 2018)



EXISTING OPERATIONS ANALYSIS DART SYSTEM

DART SYSTEM

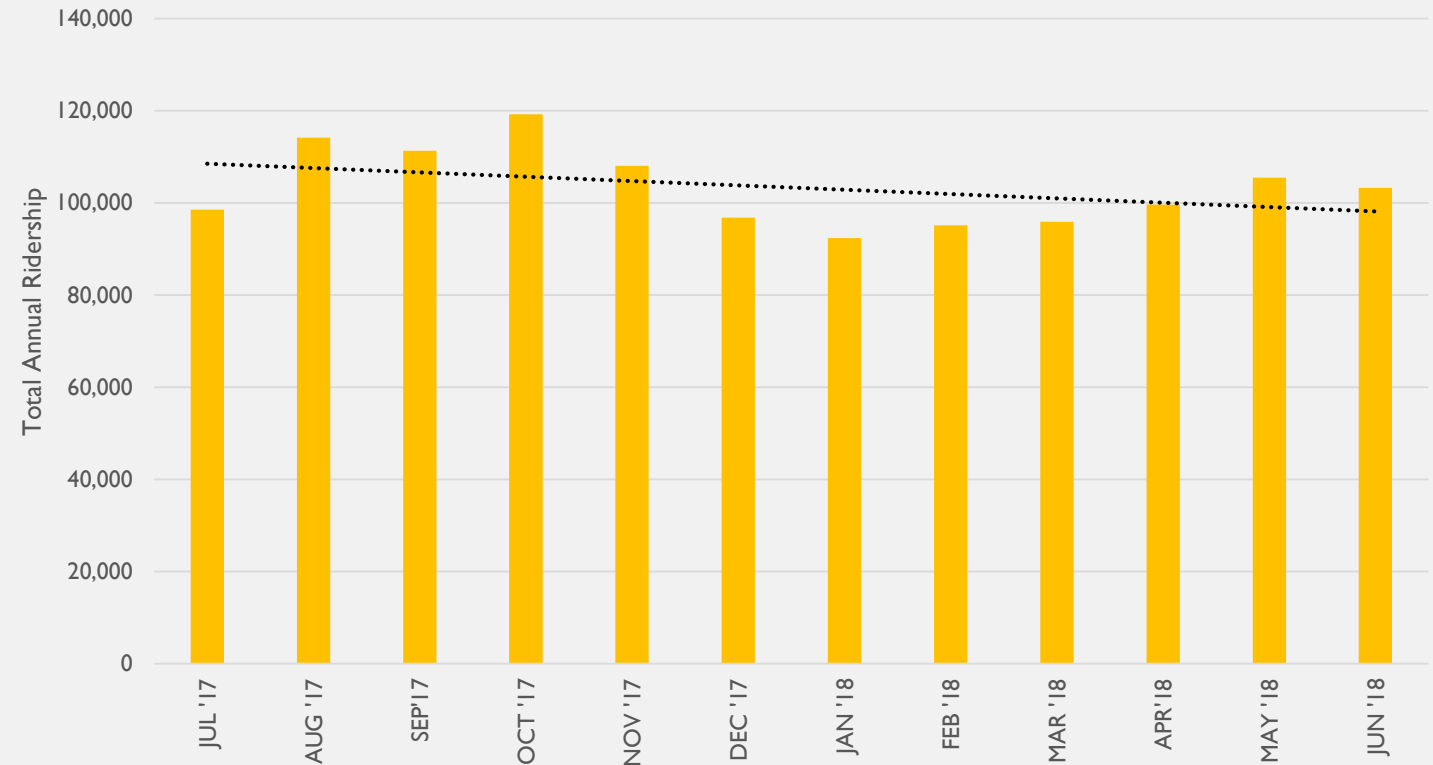
- DART is the state-wide transit agency for the State of Delaware.
- They provide local and express inter-city services to all of the major cities and towns in Delaware including Wilmington, Newark, and Dover.
- Nine bus routes operate to/from the City of Newark with services primarily destined for Wilmington and Christiana and limited service to Glasgow and St. Georges.



DART CITY OF NEWARK SYSTEM

- Through FY 2018, ridership on Newark area DART routes slightly decreased month-by-month.
- Ridership is highest in late Summer and early Fall, peaking in October at 120,000 trips
- Ridership is lowest in Winter, bottoming out in January at 90,000 trips
- High Summer ridership suggests a largely non-student ridership base

DART Total Annual Ridership – All Routes (FY 2018)

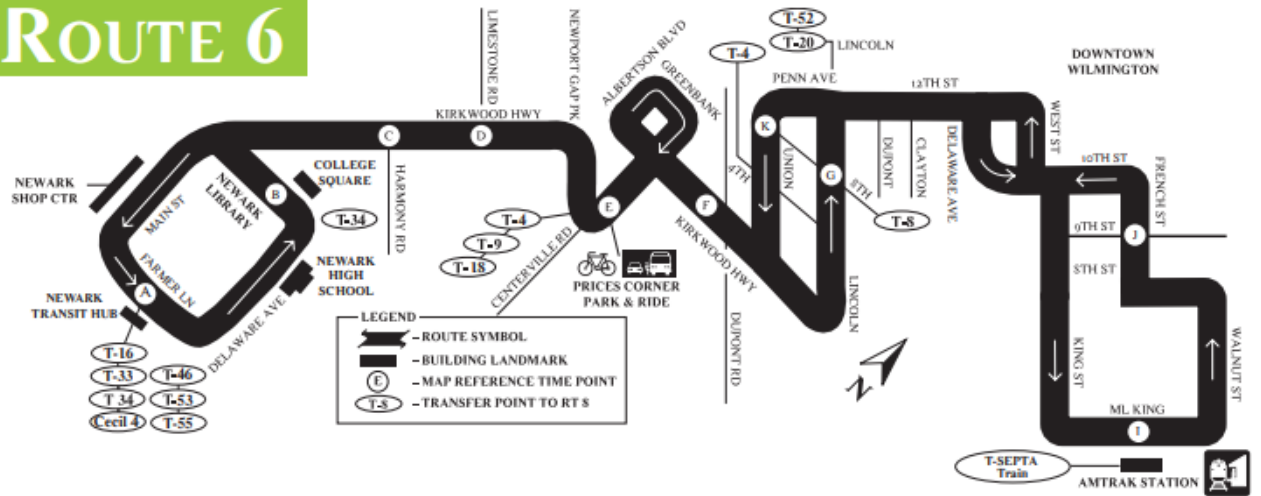


DART ROUTE 6 - KIRKWOOD HIGHWAY

Annual Ridership (FY2018)	Passengers per Revenue Hour	Passengers per Mile	Average Daily Boardings
663,697	24.19	1.73	2,855

	One-Way Trips	Service Span	Peak Headway	Off-Peak Headway
Weekday	35(EB)/40(WB)	04:30–23:30	20	30/60
Saturday	25	05:55–20:30	30	30
Sunday	11(EB)/12(WB)	07:55–19:45	60	60

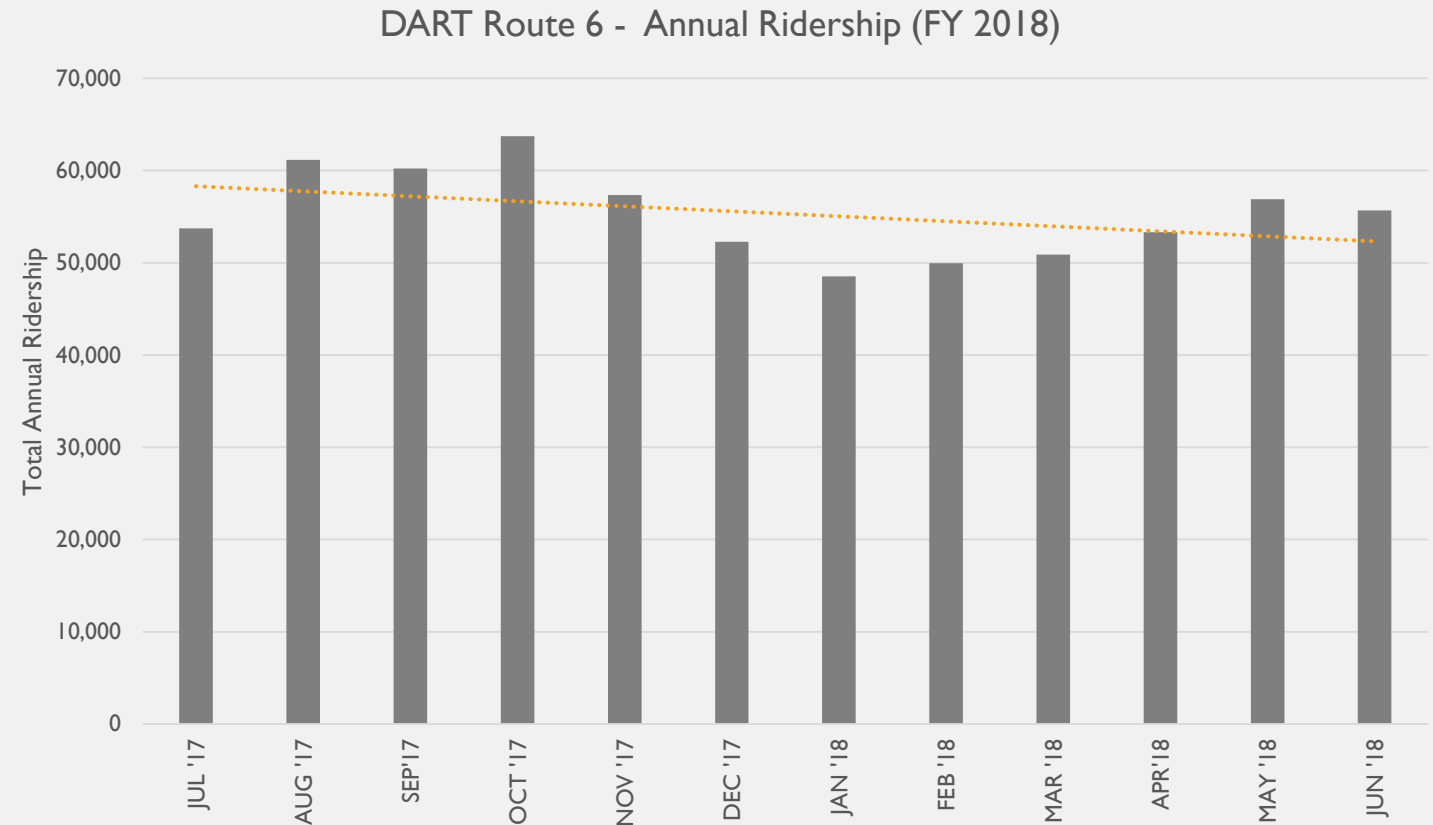
ROUTE 6



CITY OF NEWARK

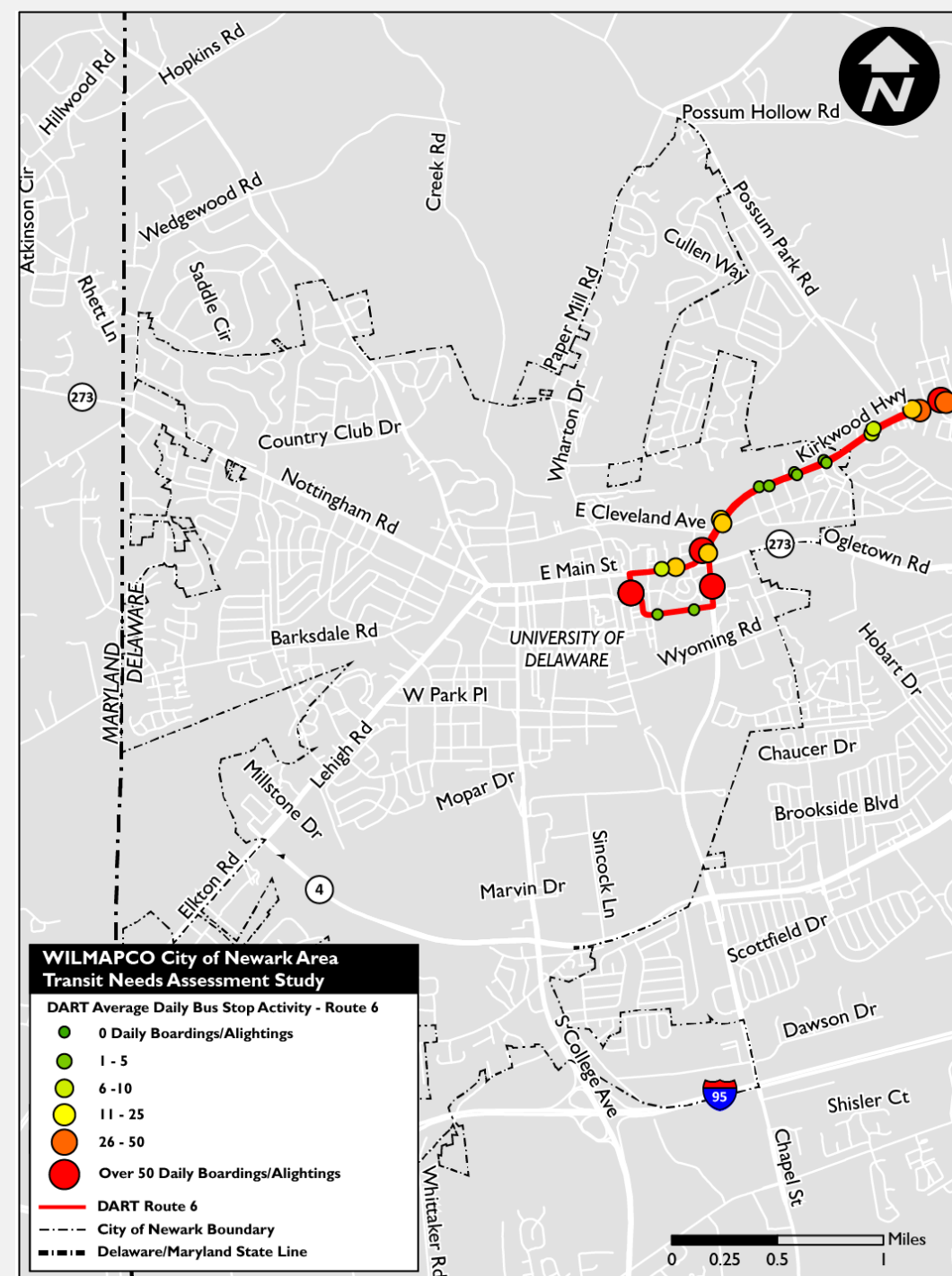
DART ROUTE 6 - KIRKWOOD HIGHWAY

- Route operates between downtown Wilmington (Amtrak/T-SEPTA Station) and Newark (Newark Transit Hub) via Kirkwood Highway.
- Operates frequent all-day service on weekdays and Saturdays and limited service on Sundays.
- DART's highest ridership route in the Newark area mirrors the same annual ridership pattern as shown for all the DART Newark-area routes, with slightly decreasing month-by-month ridership with peak ridership in warmer months and much lower demand in winter months.



DART – ROUTE 6 KIRKWOOD HIGHWAY

- Most popular stops in Newark area include the following:
 - Newark Transit Hub
 - Newark Public Library
 - McDonalds – Kirkwood Highway
- Average daily activity in Newark area is 843 boardings+alightings per day.

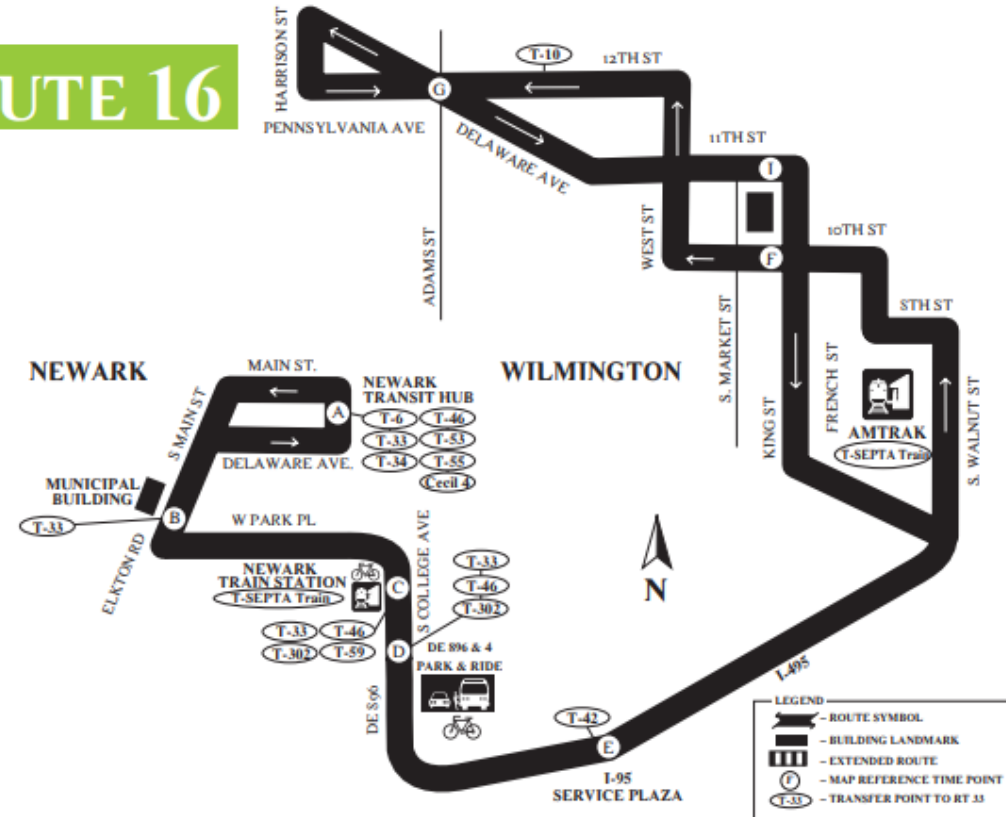


DART ROUTE 16 - NEWARK EXPRESS

Annual Ridership (FY2018)	Passengers per Revenue Hour	Passengers per Mile	Average Daily Boardings
43,546	7.84	0.32	171

	One-Way Trips	Service Span	Peak Headway	Off-Peak Headway
Weekday	8(EB)/13(WB)	06:00–18:40	30	-
Saturday		NO SATURDAY SERVICE		
Sunday		NO SUNDAY SERVICE		

ROUTE 16

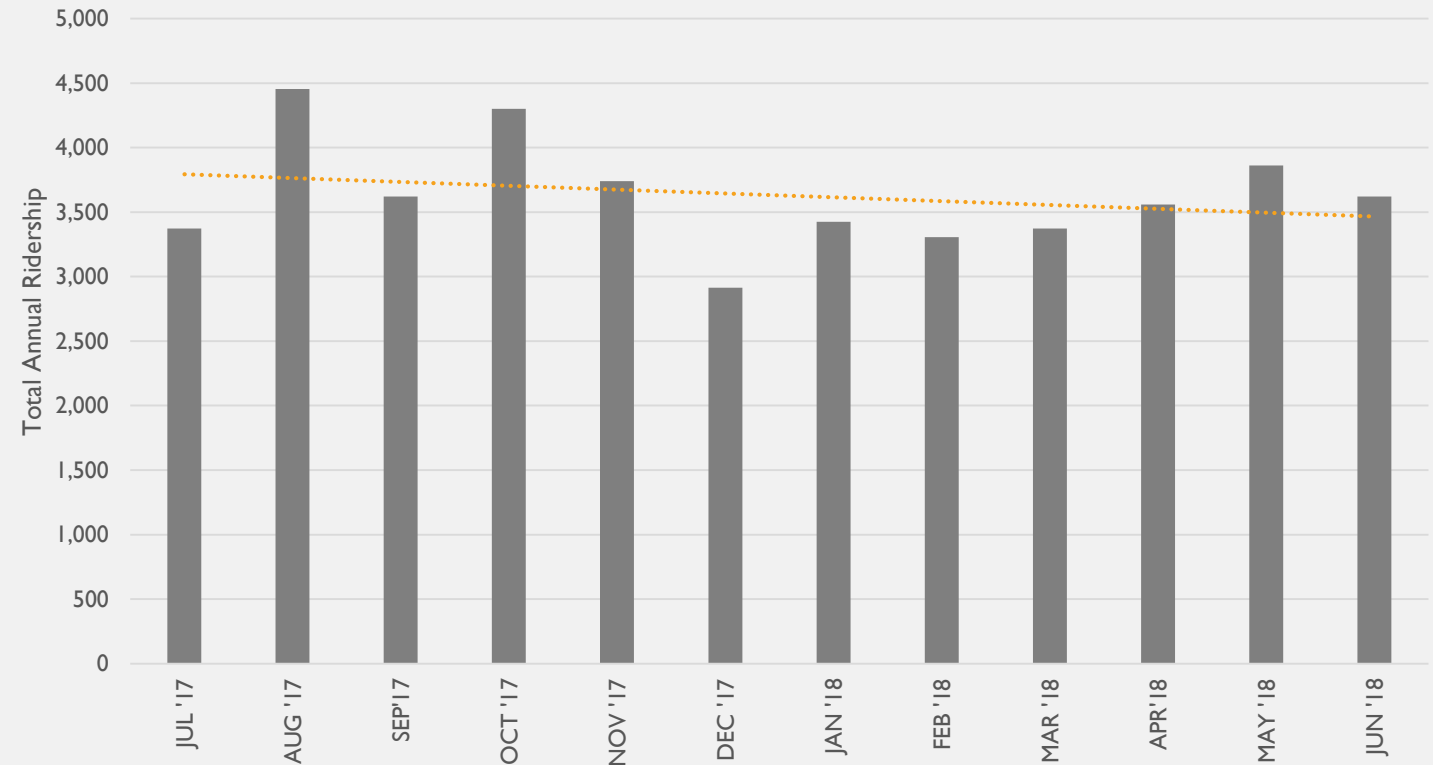


CITY OF NEWARK

DART ROUTE 16 - NEWARK EXPRESS

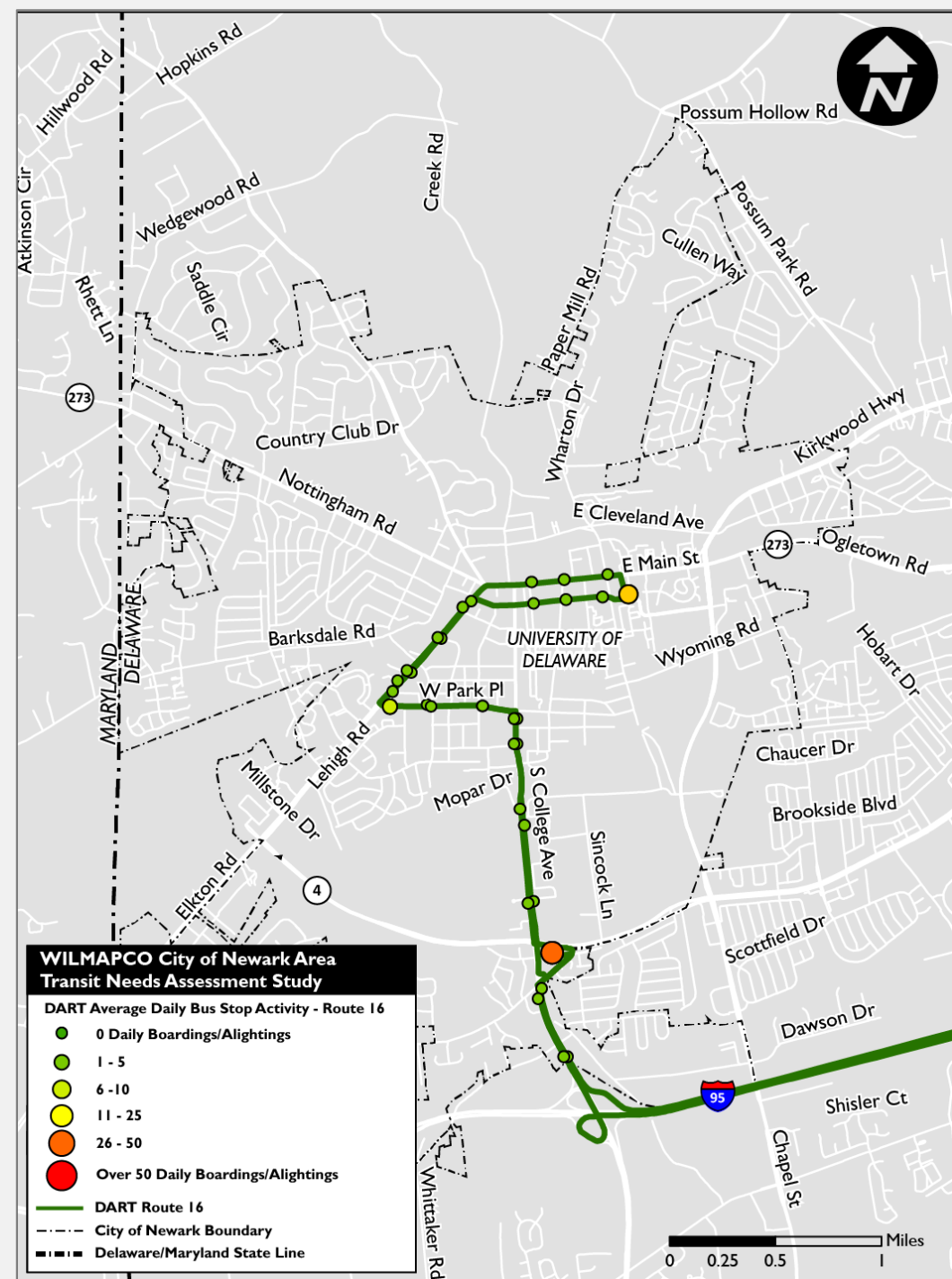
- Route operates between Wilmington and Newark (Newark Transit Hub) via I-95/Delaware Turnpike.
- Operates frequent peak-only service on weekdays.
- DART Route 16 also experienced slightly decreasing month-by-month ridership but had less seasonal variation in with December 2017 being the only month with ridership less than 3,000.

DART Route 16 - Annual Ridership (FY 2018)



DART ROUTE 16 - NEWARK EXPRESS

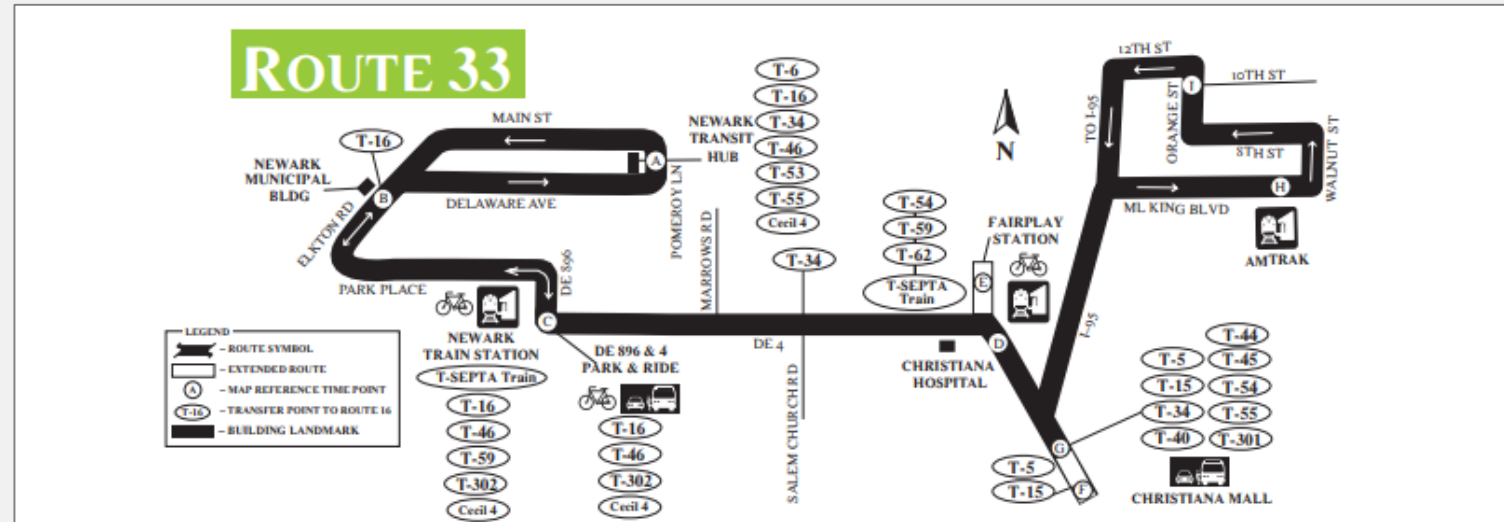
- Most popular stops in Newark area include the following:
 - Newark Transit Hub
 - DE-896 and US-4 Park-and-Ride Lot
- Average daily activity in Newark area is 172 boardings+alightings per day.



DART ROUTE 33 - CHRISTIANA MALL/NEWARK

Annual Ridership (FY2018)	Passengers per Revenue Hour	Passengers per Mile	Average Daily Boardings
340,580	13.70	0.77	1,342

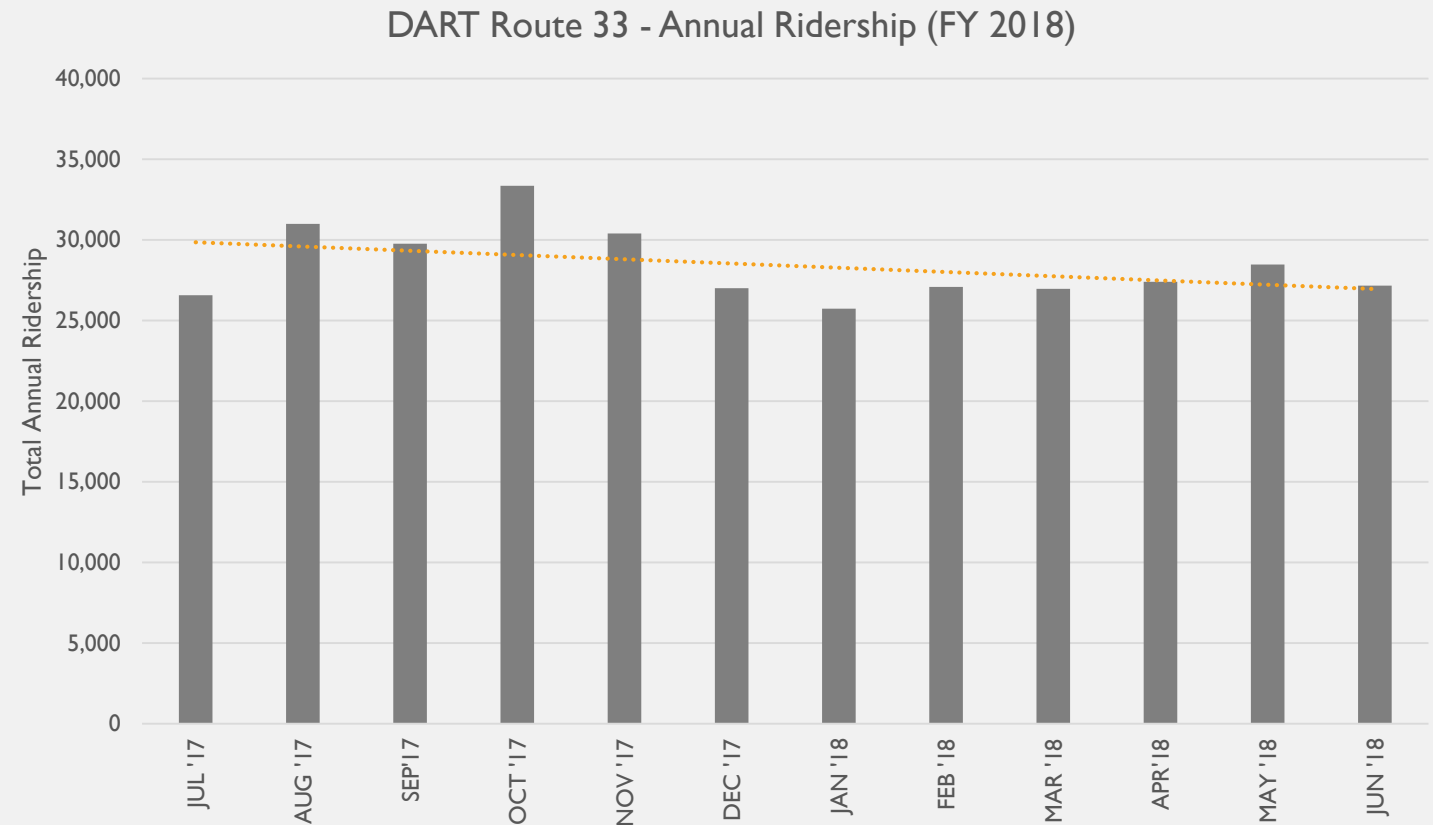
	One-Way Trips	Service Span	Peak Headway	Off-Peak Headway
Weekday	35(EB)/33(WB)	04:30–00:15	30	30/60
Saturday	15	05:40–21:00	60	60
Sunday	11	09:00–21:00	60	60



CITY OF NEWARK

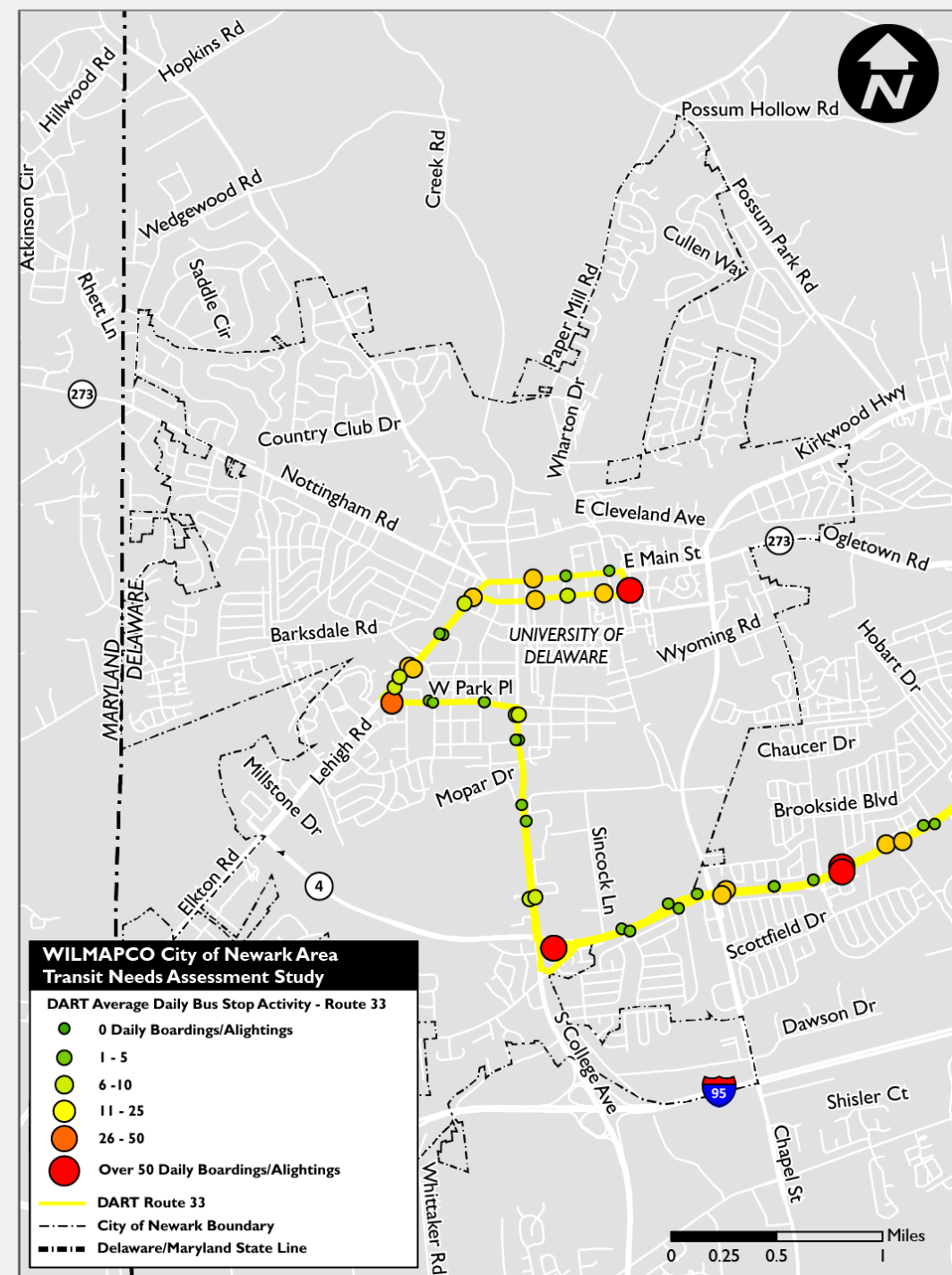
DART ROUTE 33 - CHRISTIANA MALL/NEWARK

- Route operates between Christiana and Newark (Newark Transit Hub) via DE-4.
- Operates frequent service on weekdays and limited service on weekends.
- DART Route 33 also experienced seasonal variation in ridership that matched most other routes, but ridership remained in 25,000-30,000 range during every month.



DART ROUTE 33 - CHRISTIANA MALL/NEWARK

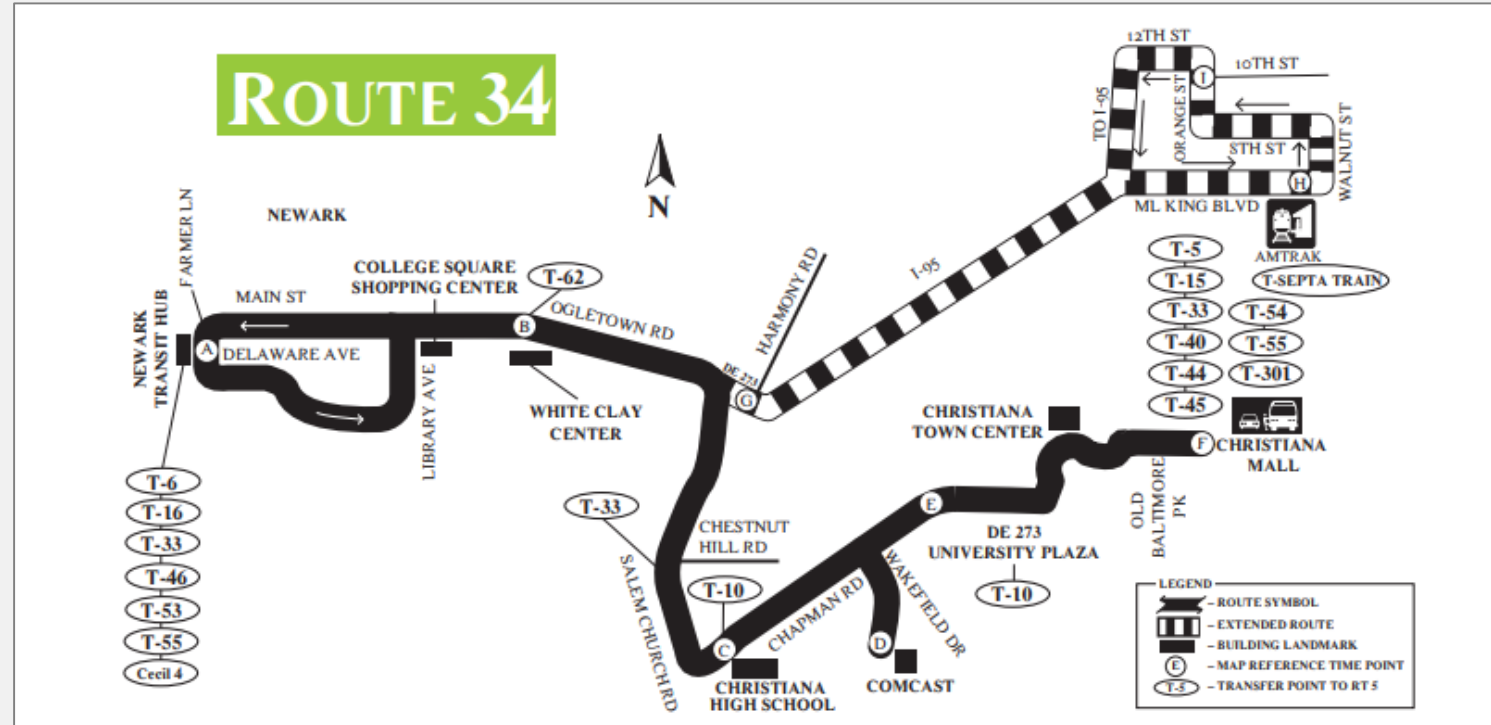
- Most popular stops in Newark area include the following:
 - Newark Transit Hub
 - DE-896 and US-4 Park-and-Ride Lot
 - Chestnut Hill Plaza Shopping Center
 - W Park Place and S Main Street
- Average daily activity in Newark area is 795 boardings+alightings per day.



DART ROUTE 34 - NEWARK/ CHRISTIANA MALL/ WILMINGTON

Annual Ridership (FY2018)	Passengers per Revenue Hour	Passengers per Mile	Average Daily Boardings
23,000	3.77	0.26	126

	One-Way Trips	Service Span	Peak Headway	Off-Peak Headway
Weekday	17	06:00–19:40	15	30
Saturday		NO SATURDAY SERVICE		
Sunday		NO SUNDAY SERVICE		

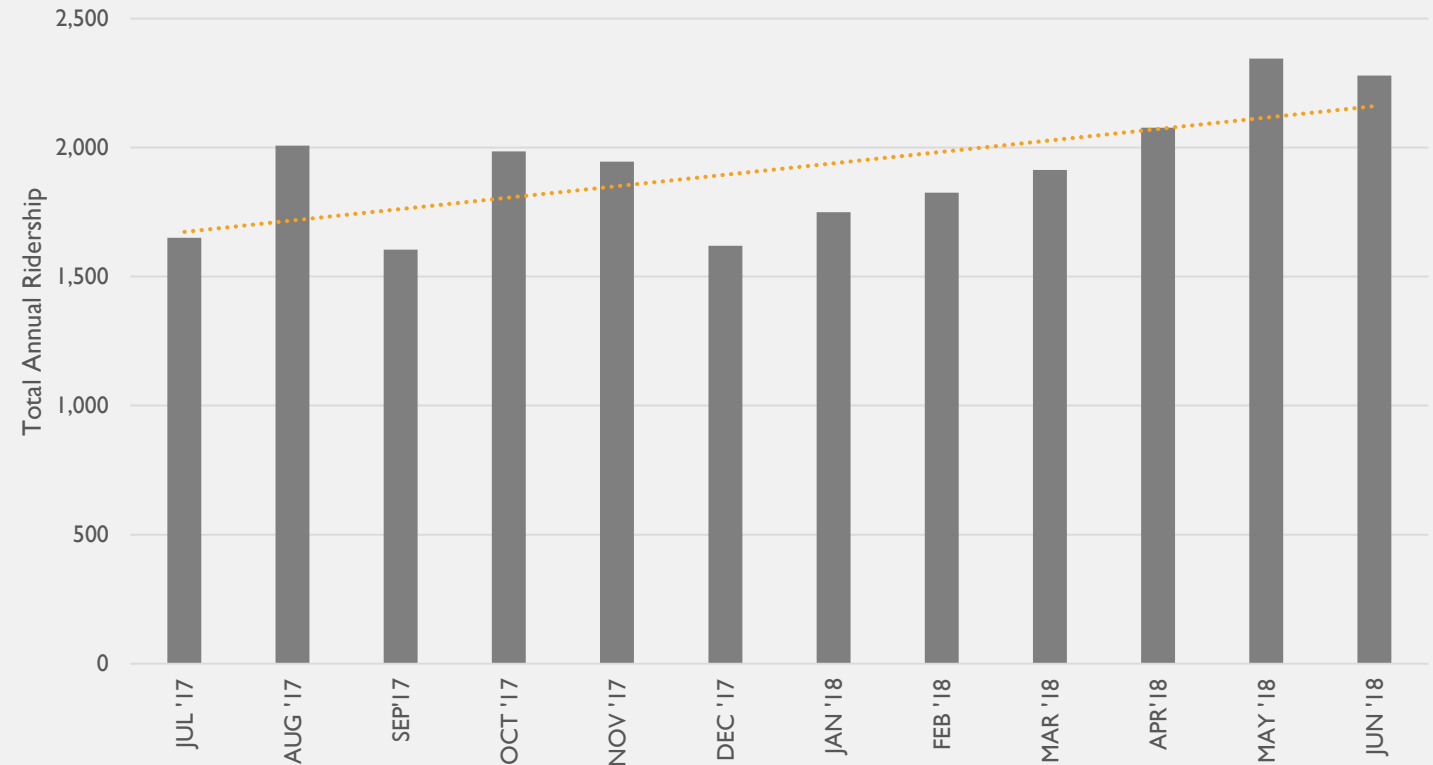


CITY OF NEWARK

DART ROUTE 34 - NEWARK/ CHRISTIANA MALL/ WILMINGTON

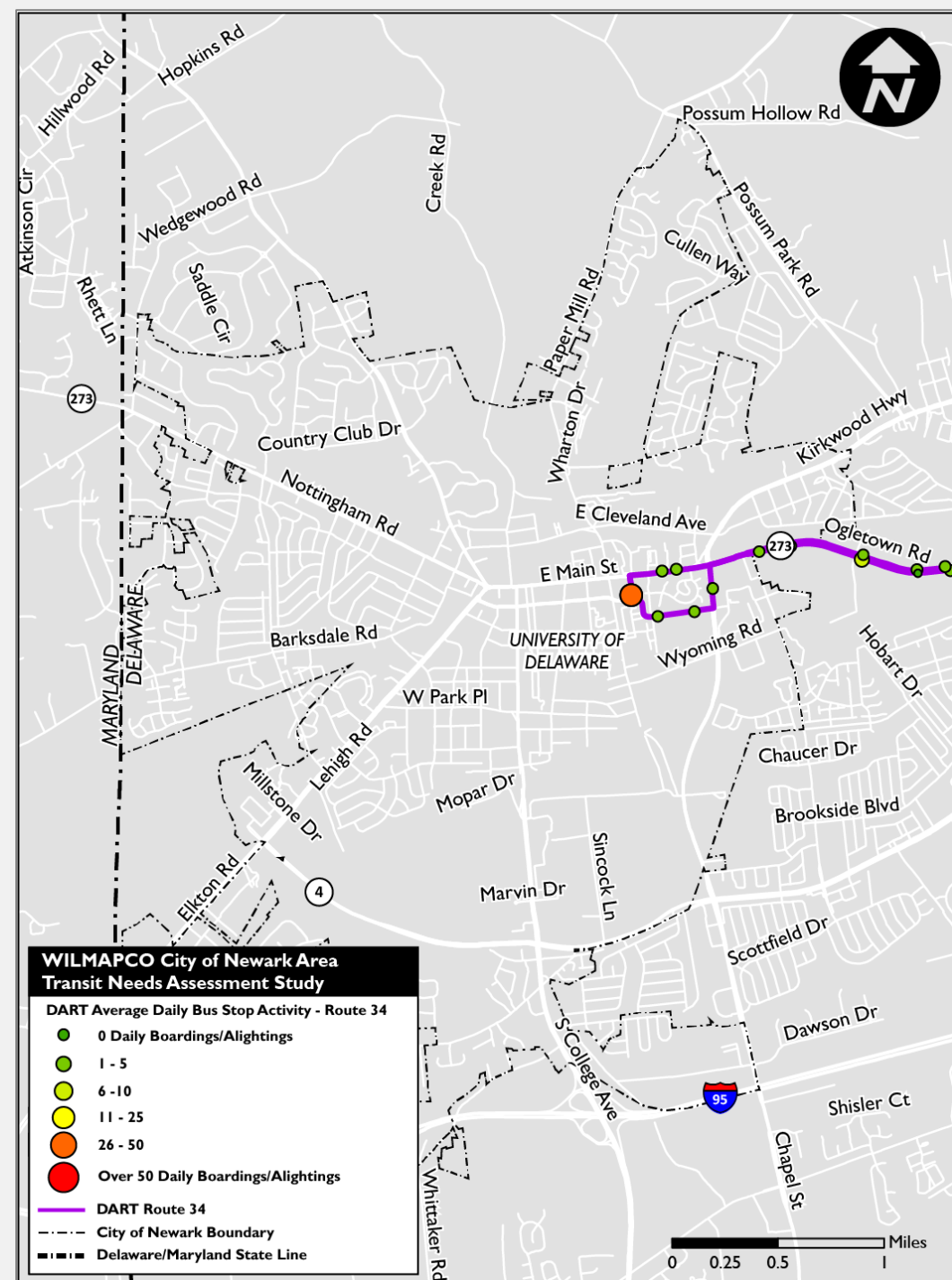
- Route operates between Newark (Newark Transit Hub) and Christiana (via Chapman Road) or Wilmington (via I-95).
- Operates frequent peak-only service on weekdays.
- DART Route 34 was the only route in the Newark area DART system that experienced general month-by-month ridership increases with approximately 1,700 riders in July 2017 to approximately 2,250 monthly riders in both May and June 2018.

DART Route 34 - Annual Ridership (FY 2018)



DART ROUTE 34 - NEWARK/ CHRISTIANA MALL/ WILMINGTON

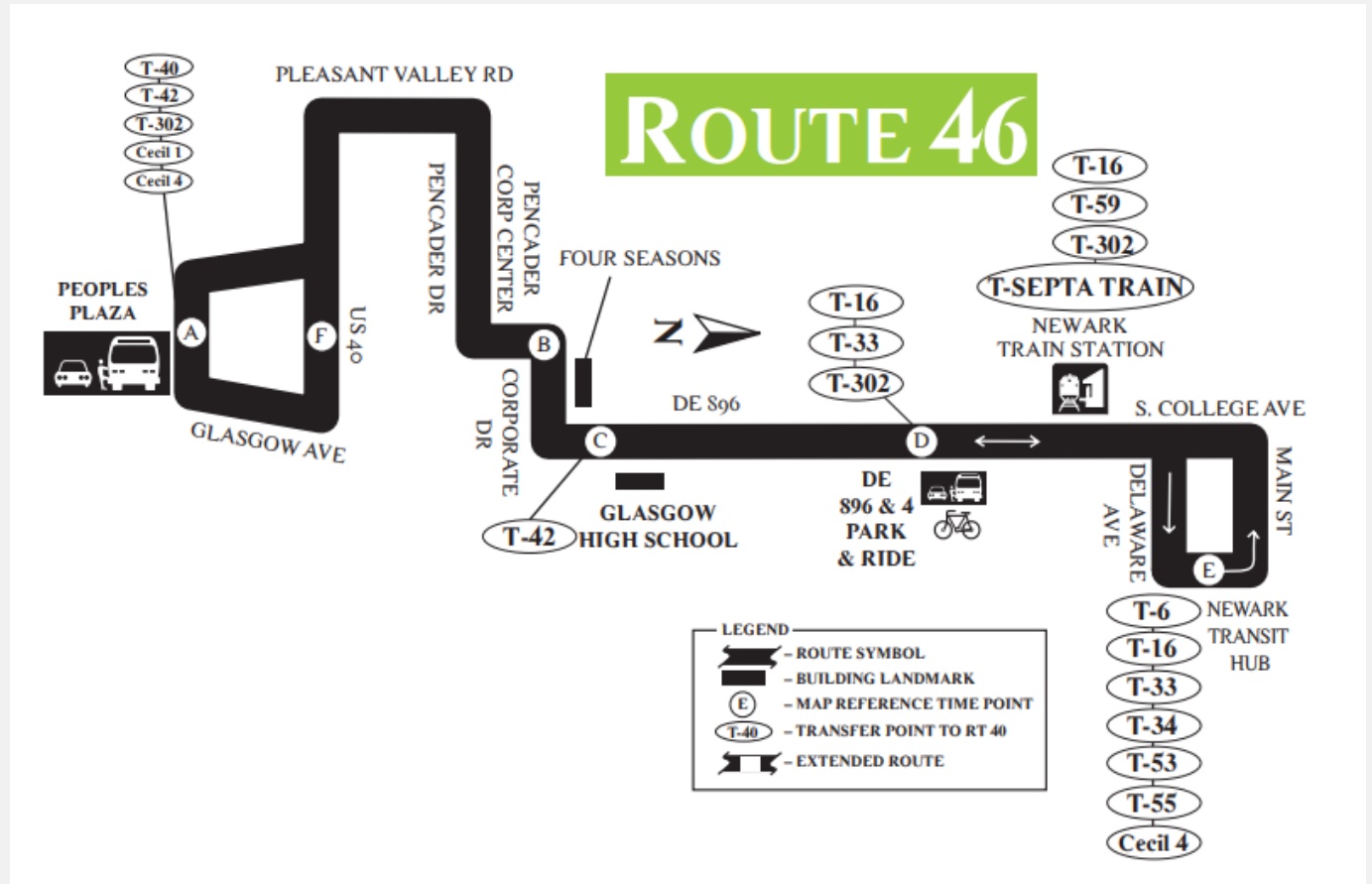
- Most popular stops in Newark area include the following:
 - Newark Transit Hub
- Average daily activity in Newark area is 87 boardings+alightings per day.



DART ROUTE 46 - NEWARK/ GLASGOW

Annual Ridership (FY2018)	Passengers per Revenue Hour	Passengers per Mile	Average Daily Boardings
42,232	6.04	0.37	203

	One-Way Trips	Service Span	Peak Headway	Off-Peak Headway
Weekday	19(NB)/21(SB)	05:00–22:15	30	70
Saturday	14	06:15–20:15	60	60
Sunday	NO SUNDAY SERVICE			

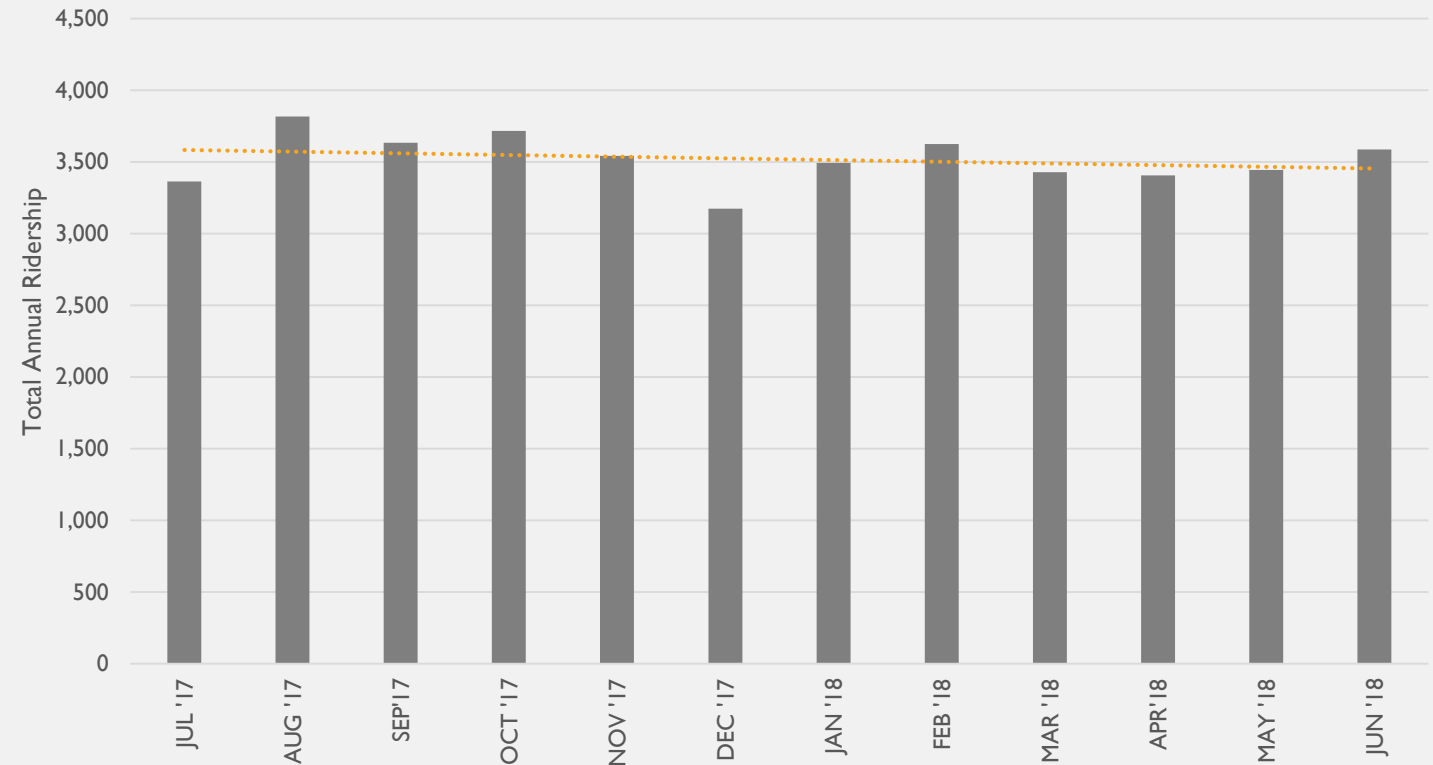


CITY OF NEWARK

DART ROUTE 46 - NEWARK/ GLASGOW

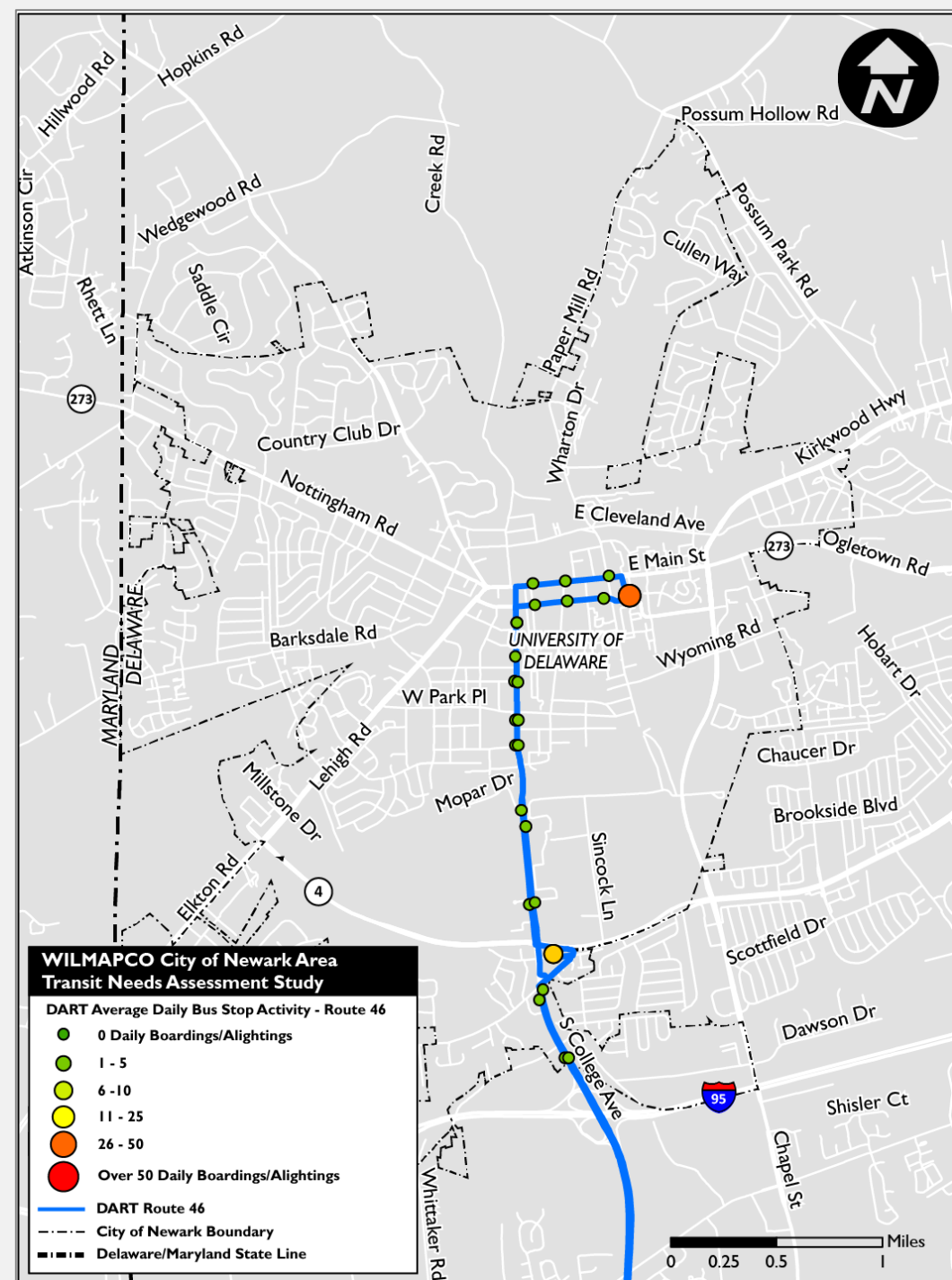
- Route operates between Newark (Newark Transit Hub) and Glasgow (Peoples Plaza)
- Operates limited service on weekdays and Saturdays.
- Ridership on DART Route 46 in FY 2018 was relatively stable with all months reporting ridership around 3,500 monthly trips.

DART Route 46 - Annual Ridership (FY 2018)



DART ROUTE 46 - NEWARK/ GLASGOW

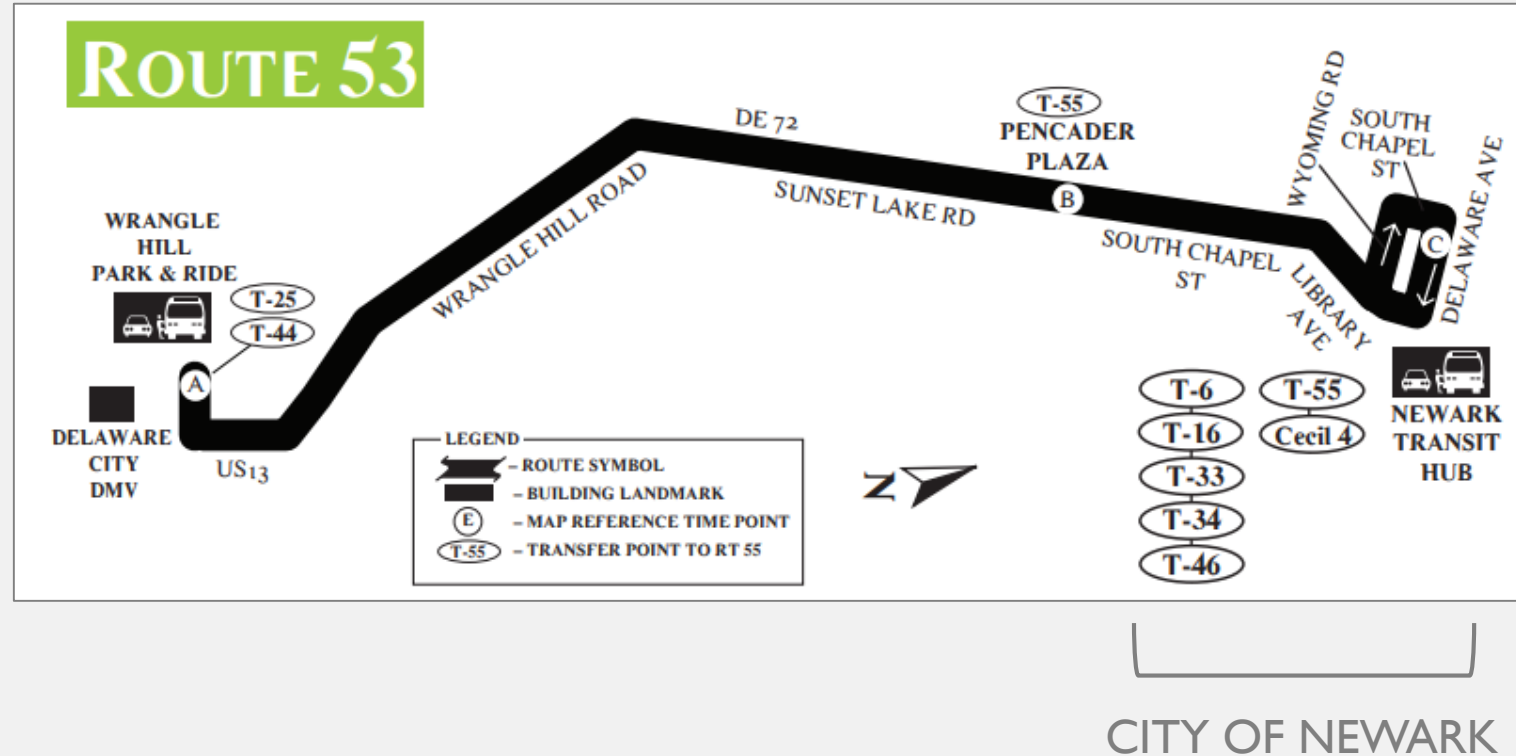
- Most popular stops in Newark area include the following:
 - Newark Transit Hub
 - DE-896 and US-4 Park-and-Ride Lot
- Average daily activity in Newark area is 182 boardings+alightings per day.



DART ROUTE 53 - DELAWARE CITY/ NEWARK

Annual Ridership (FY2018)	Passengers per Revenue Hour	Passengers per Mile	Average Daily Boardings
11,317	3.11	0.13	75

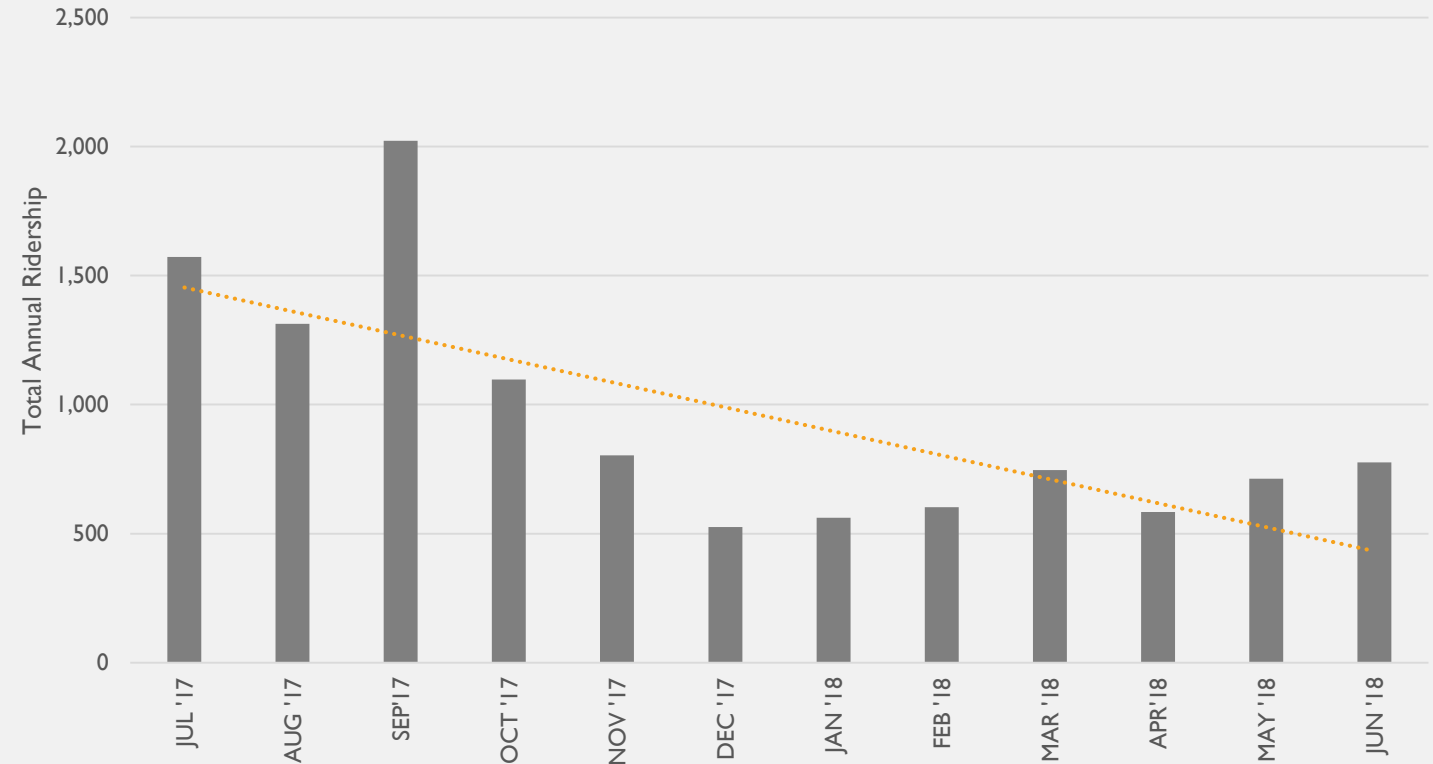
	One-Way Trips	Service Span	Peak Headway	Off-Peak Headway
Weekday	15(NB)/14(SB)	05:00–23:00	15	15
Saturday		NO SATURDAY SERVICE		
Sunday		NO SUNDAY SERVICE		



DART ROUTE 53 - DELAWARE CITY/ NEWARK

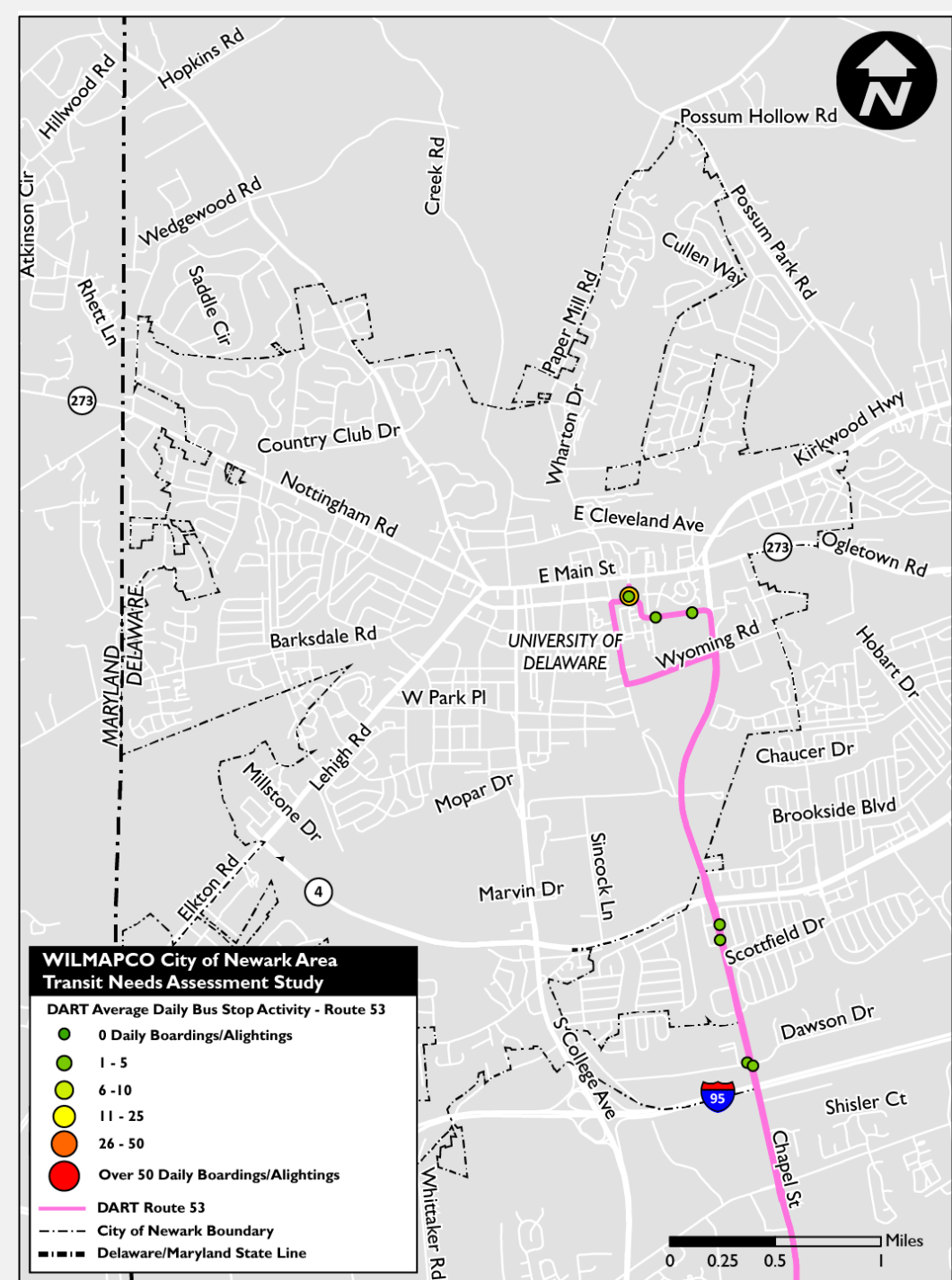
- Route operates between Newark (Newark Transit Hub) and St Georges (Wrangle Hill Park-and-Ride Lot)
- Operates commuter service at limited periods throughout the day (e.g. 5-7AM, 11-1PM, 2-5PM, etc.)
- DART Route 53 experienced the largest decreases in month-by-month ridership averaging around 1,750 trips per month in summer 2017 to fewer than 750 from October 2017 to the end of the fiscal year.

DART Route 53 - Annual Ridership (FY 2018)



DART ROUTE 53 - DELAWARE CITY/ NEWARK

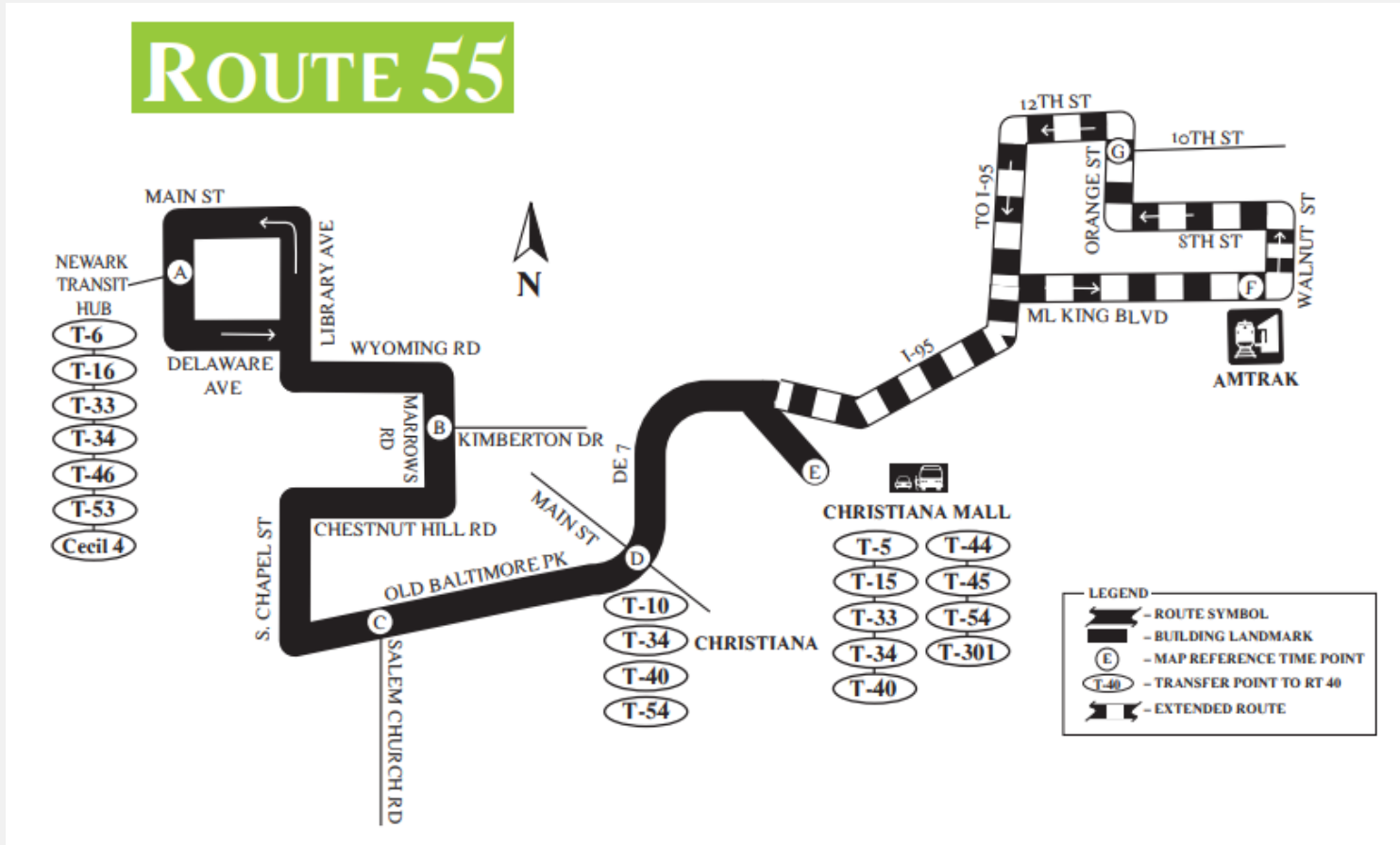
- Most popular stops in Newark area include the following:
 - Newark Transit Hub
- Average daily activity in Newark area is 32 boardings+alightings per day.



DART ROUTE 55 - OLD BALTIMORE PIKE

Annual Ridership (FY2018)	Passengers per Revenue Hour	Passengers per Mile	Average Daily Boardings
99,283	10.05	0.64	411

	One-Way Trips	Service Span	Peak Headway	Off-Peak Headway
Weekday	25	05:45–22:45	40	40
Saturday	12	06:30-20:30	60	60
Sunday		NO SUNDAY SERVICE		

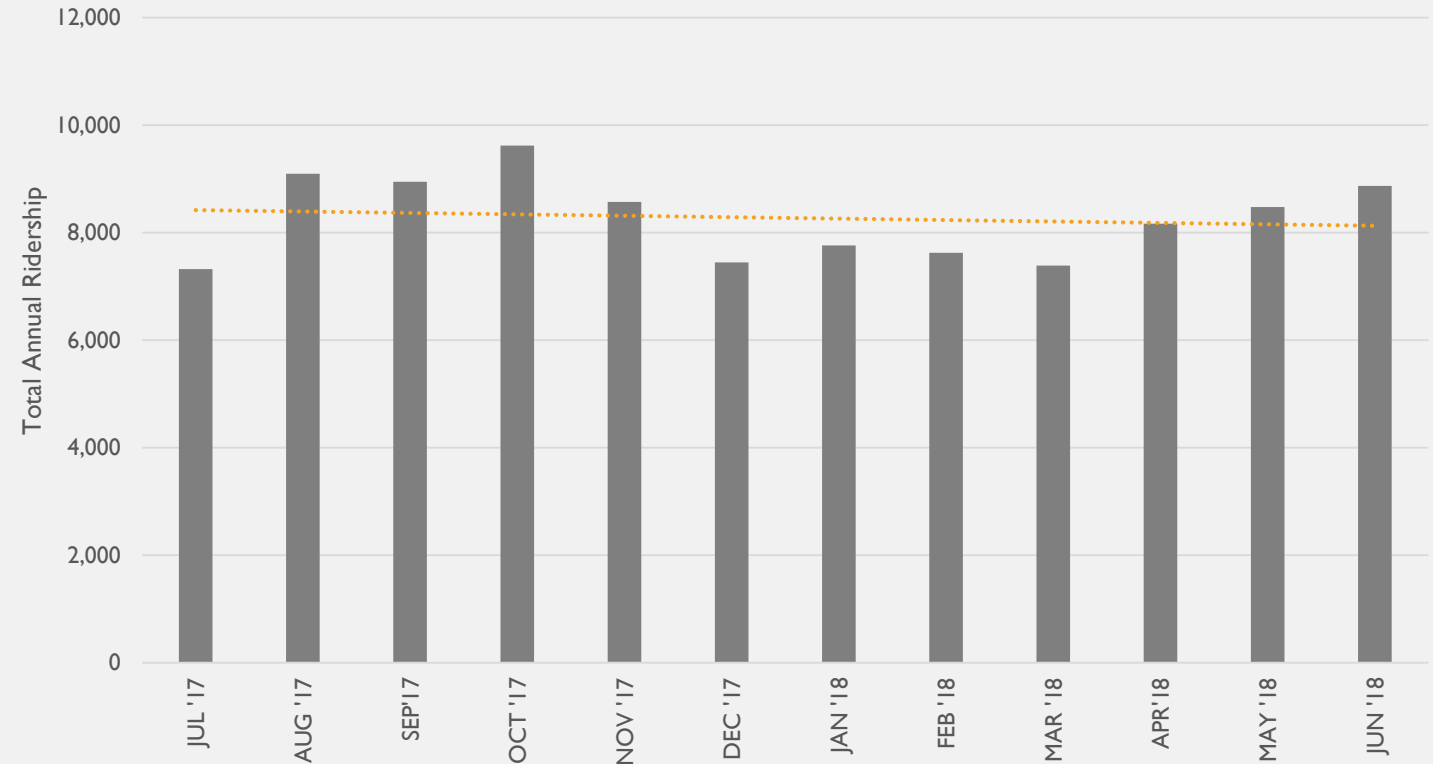


CITY OF NEWARK

DART ROUTE 55 - OLD BALTIMORE PIKE

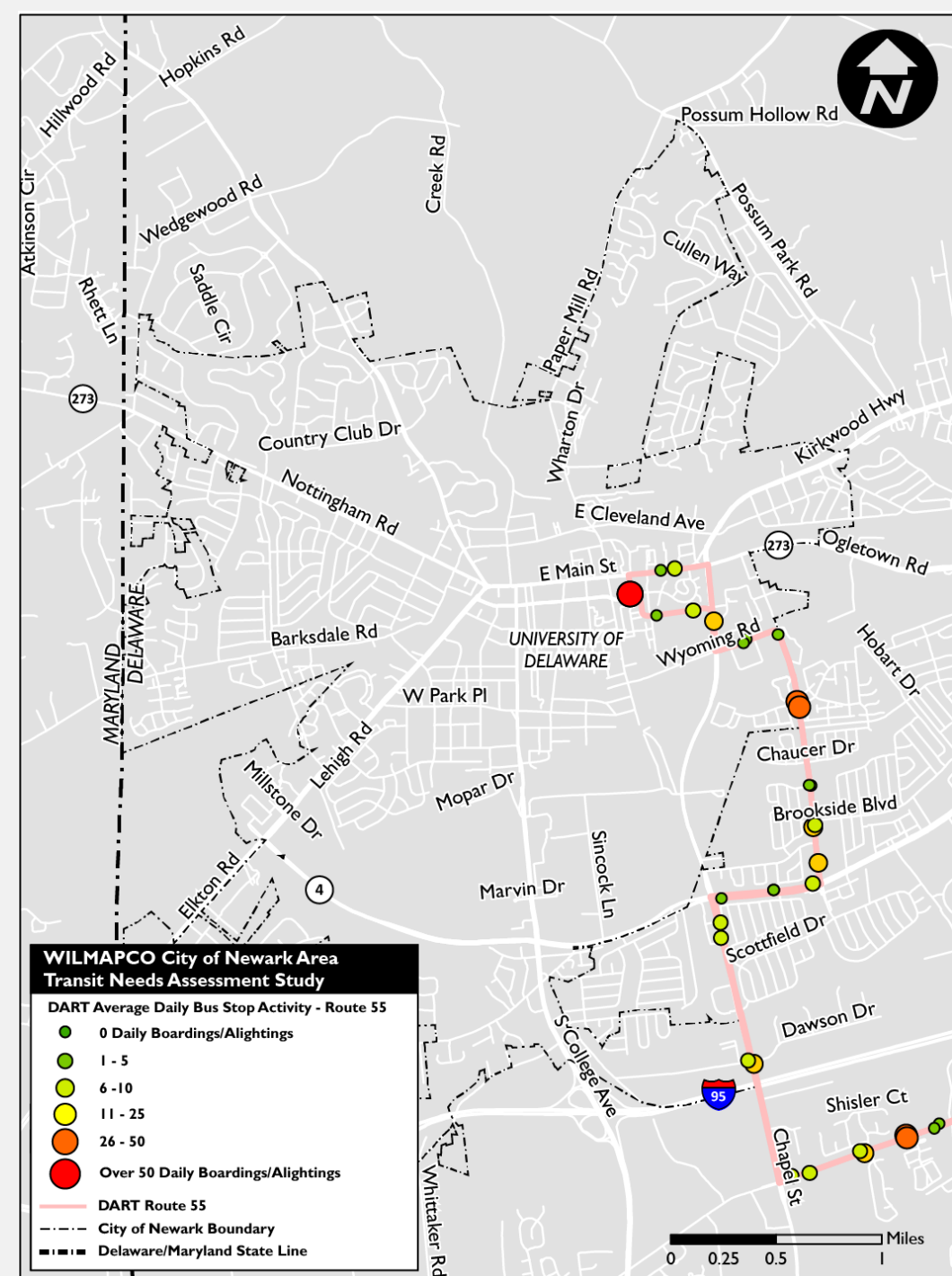
- Route operates between Newark (Newark Transit Hub) and Christiana (Christiana Mall) via the Old Baltimore Pike
- Operates limited all-day service on weekdays and Saturdays
- Ridership on DART Route 55 has remained stable throughout FY 2018, with route reporting monthly ridership in the 7,000 to 9,000 range.

DART Route 55 - Annual Ridership (FY 2018)



DART ROUTE 55 - OLD BALTIMORE PIKE

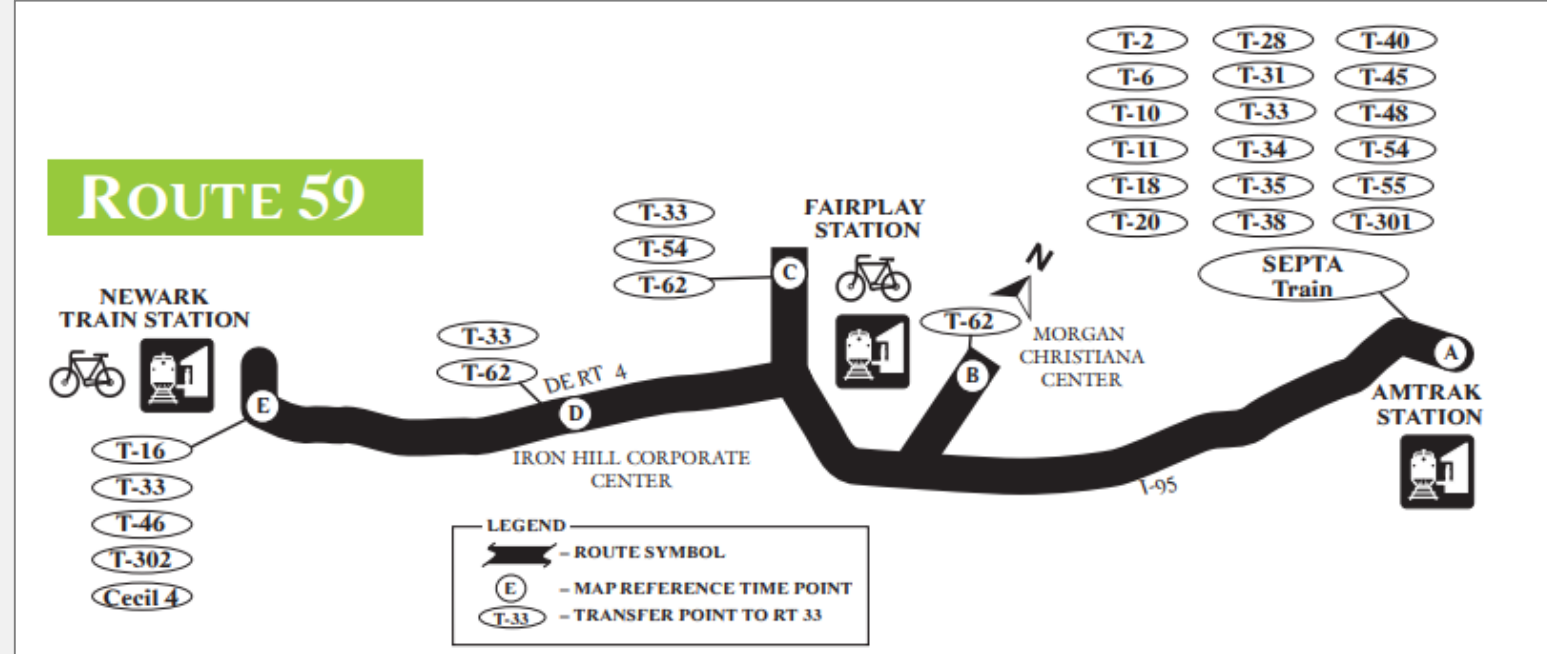
- Most popular stops in Newark area include the following:
 - Newark Transit Hub
 - Marrows Road and White Chapel Drive
 - The Iron Hills Apartments
- Average daily activity in Newark area is 452 boardings+alightings per day.



DART ROUTE 59 - NEWARK- WILMINGTON TRAIN CONNECTION

Annual Ridership (FY2018)	Passengers per Revenue Hour	Passengers per Mile	Average Daily Boardings
N/A	N/A	N/A	17

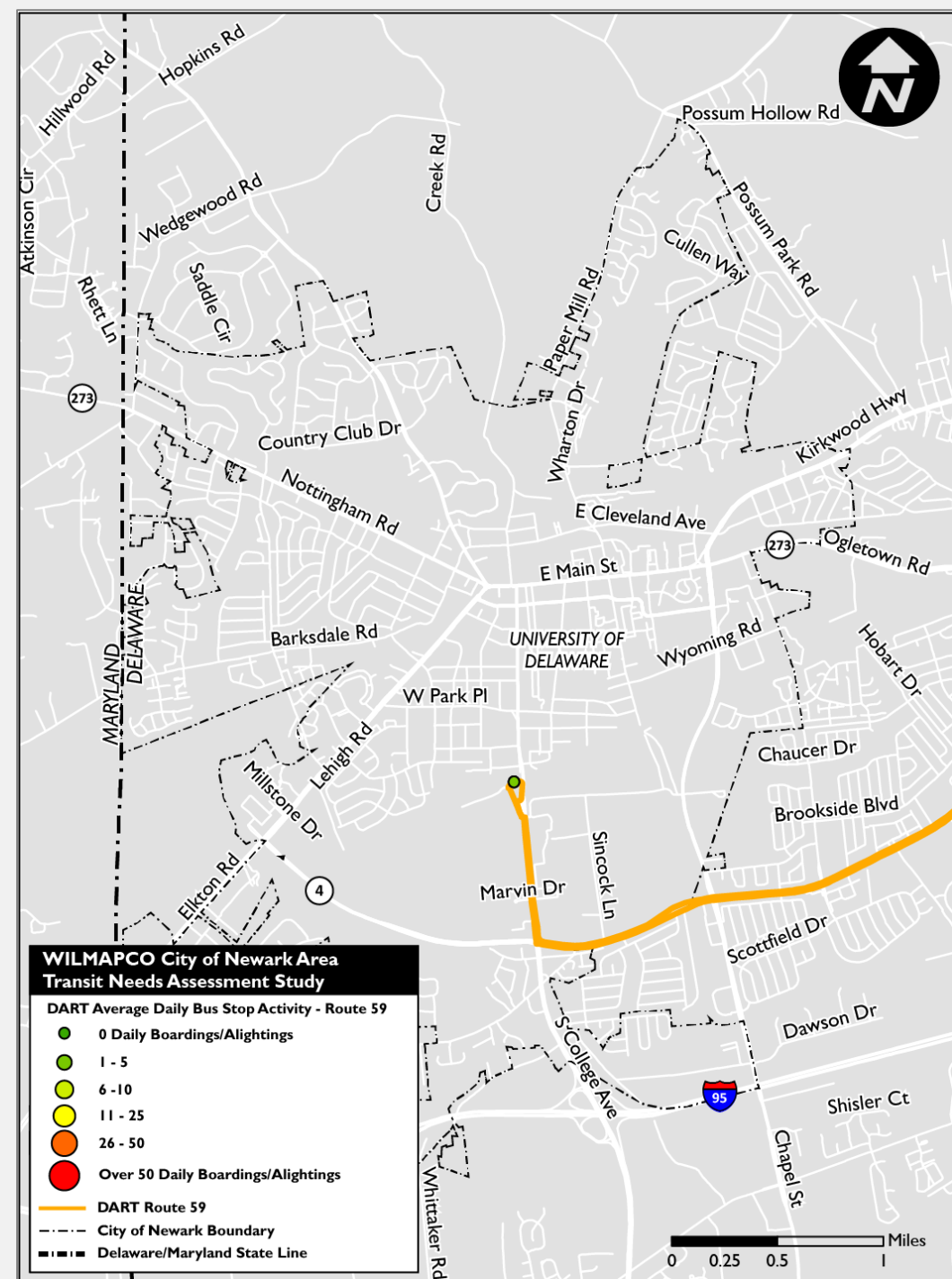
	One-Way Trips	Service Span	Peak Headway	Off-Peak Headway
Weekday	4(WB)/3(EB)	10:30–22:30	-	-
Saturday		NO SATURDAY SERVICE		
Sunday		NO SUNDAY SERVICE		



CITY OF NEWARK

DART ROUTE 59 - NEWARK- WILMINGTON TRAIN CONNECTION

- Route operates between Newark (Newark Transit Hub) and Wilmington (Amtrak/T-SEPTA Station).
- Operates limited service throughout the day on weekdays.
- Average daily activity in Newark area is 8 boardings+alightings per day.



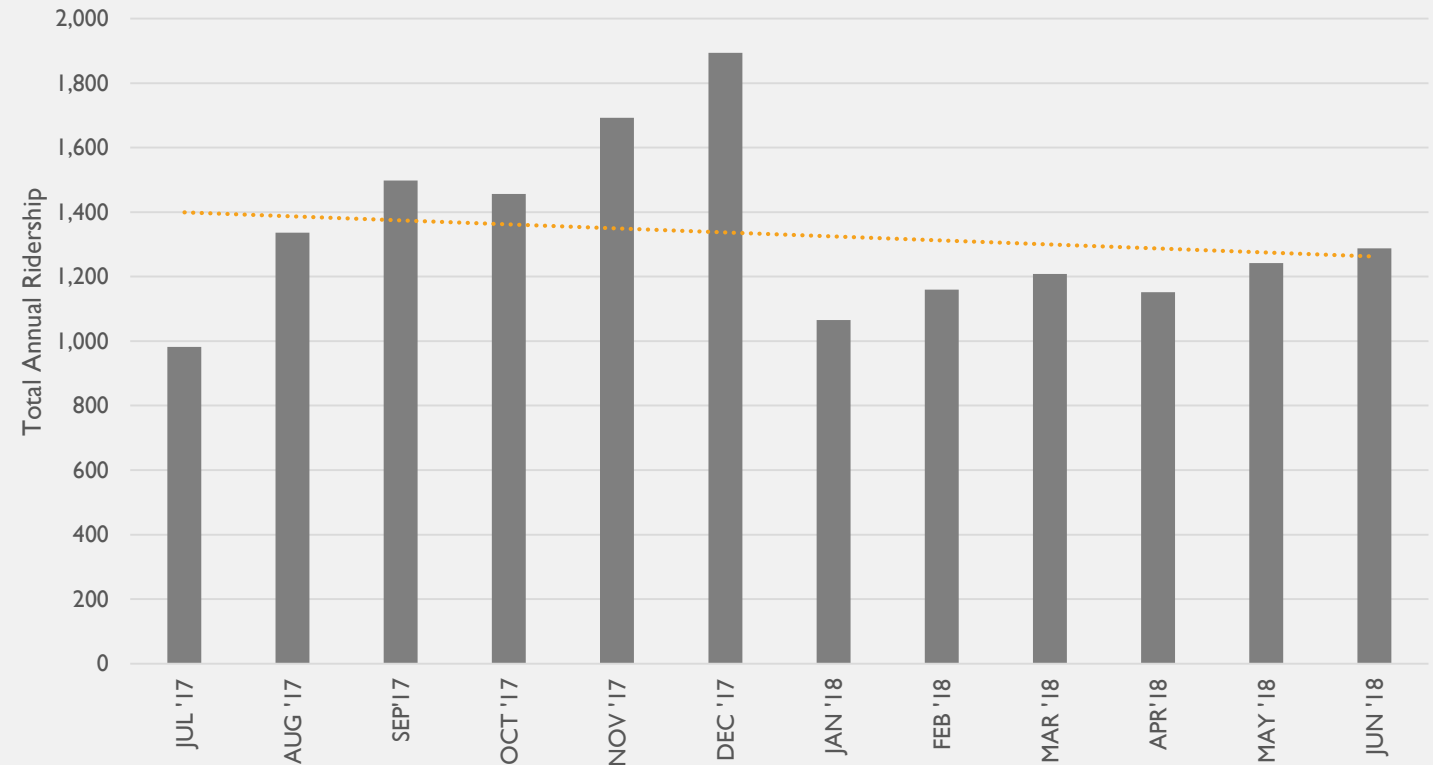
	One-Way Trips	Service Span	Peak Headway	Off-Peak Headway
Weekday	6	05:45–18:45	-	-
Saturday	NO SATURDAY SERVICE			
Sunday	NO SUNDAY SERVICE			



DART ROUTE 302 – INTERCOUNTY DOVER-NEWARK

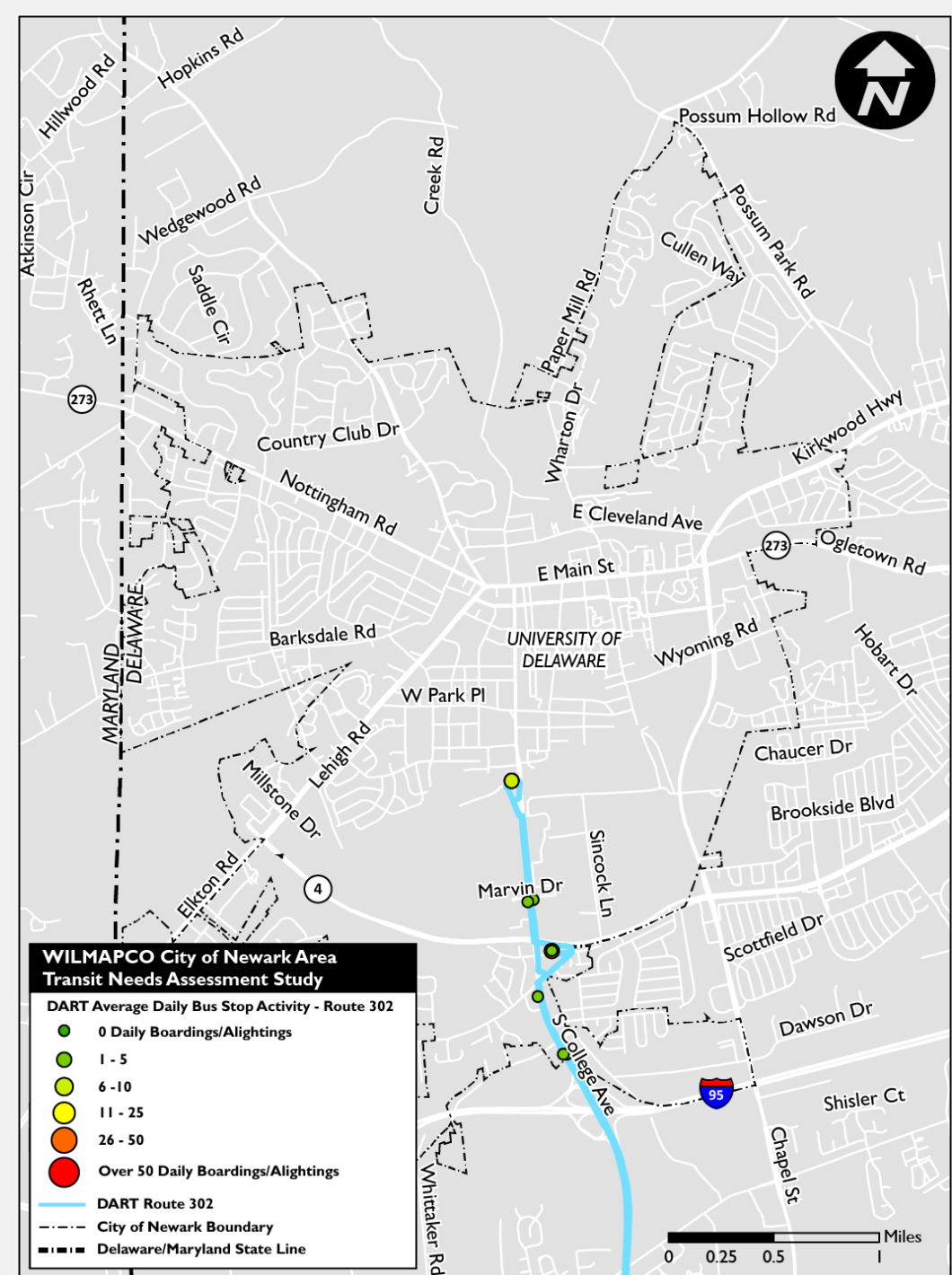
- Route operates between Newark (Newark Transit Hub) and Dover (Dover Transit Center) via Smyrna, Glasgow, and the Amazon Fulfillment Center in Middletown.
- Operates limited peak service and one midday trip on weekdays.
- Month-by-month ridership decreased over the fiscal year with peak ridership occurring in Summer and Fall 2017 and declining significantly in Winter and Spring 2018.

DART Route 302 - Annual Ridership (FY 2018)



DART ROUTE 302 – INTERCOUNTY DOVER-NEWARK

- Average daily activity in Newark area is 27 boardings+alightings per day.



DART ROUTE METRICS

Route	Total Annual Ridership
6	663,697
33	340,850
55	99,283
16	43,546
46	42,232
34	23,000
302	15,973
53	11,317

DART: 1,239,898

Route	Passengers per Revenue Hour
6	24.19
33	13.70
55	10.05
16	7.84
46	6.04
34	3.77
53	3.11
302	2.65

DART: 13.70

Route	Passengers per Revenue Mile
6	1.73
33	0.77
55	0.64
46	0.37
16	0.32
34	0.26
53	0.13
302	0.09

DART: 0.78

Route	Average Weekday Riders
6	2222.9
33	1186.8
55	355.0
16	170.8
46	148.6
34	90.2
302	62.6
53	44.4

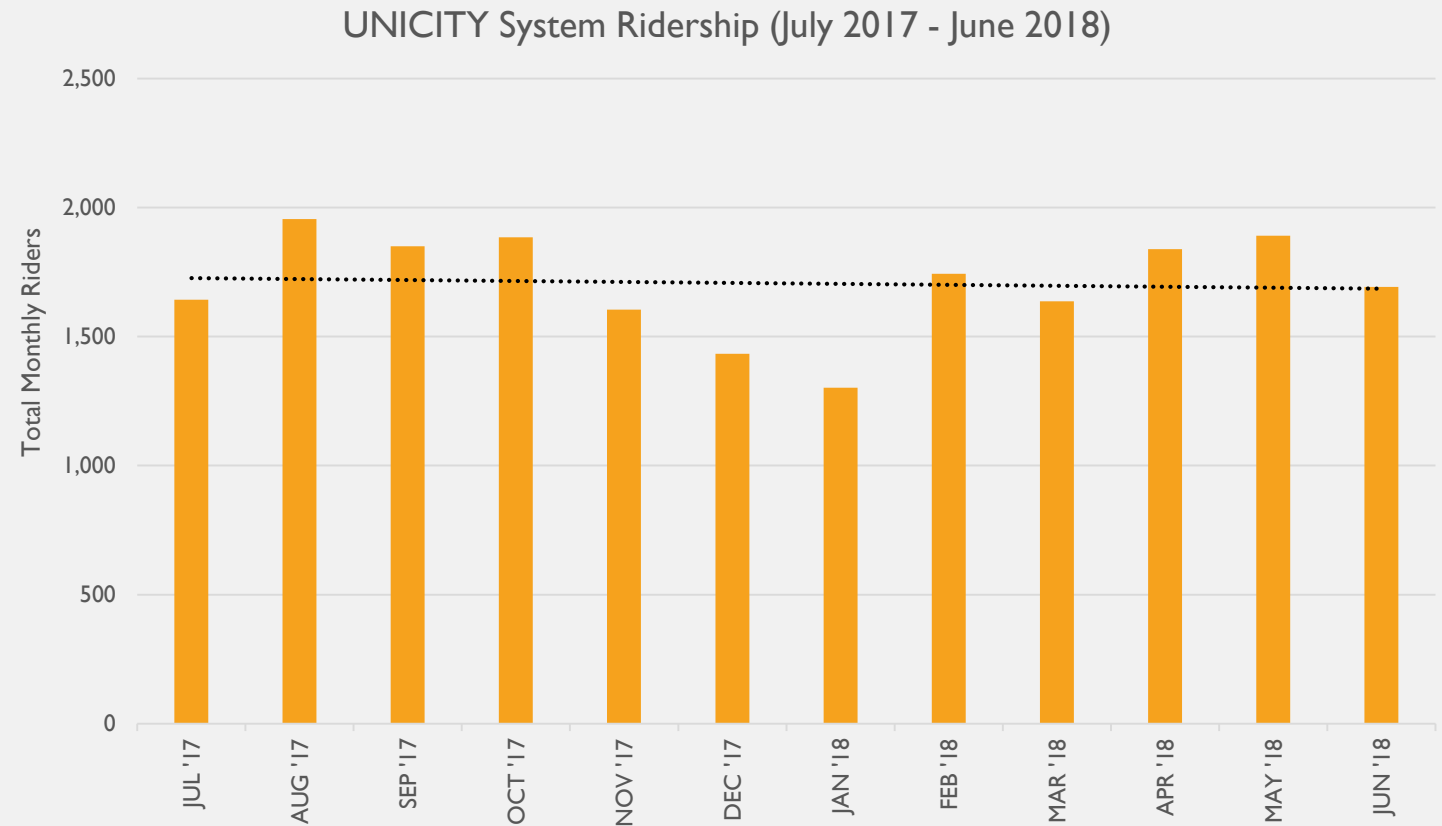
DART: 4,281.3

EXISTING OPERATIONAL ANALYSIS UNICITY SYSTEM

-
- Newark, Delaware**
- UNicity Bus Routes & Stops**
- See other side for timetable stop locations
- KEY**
- Route N1 (Green line)
 - Route N2 (Red line)
 - Route N3 (Orange line)
 - Bus Stops (Green and Red dots)
- Map Labels:**
- DELREM DR.
 - COUNTRY CLUB DR.
 - NEW LONDON RD.
 - W. MAIN ST.
 - RAHWAY DR.
 - BARKSDALE RD.
 - Abbotsford Ln.
 - CASHO MILL RD.
 - Studio Green
 - THORN LA.
 - MADISON DR.
 - CITY HILL
 - S. MAIN ST.
 - HILLSIDE RD.
 - 36 E. MAIN ST.
 - DELWARE AVE.
 - START P.M.
 - AMSTEL AVE.
 - KENT WAY
 - START A.M.
 - CHURCH RD.
 - Park-N-Shop
 - WEST PARK PLACE
 - DALLAS AVE.
 - WILLA RD.
 - LEWIS RD.
 - CHRISLER AVE.
 - SHORT LA.
 - Suburban Plaza
 - ELKTON RD.
 - CHRISTIANA PARKWAY.
 - Train Station
 - MARVIN DR.
 - Villa Belmont
 - Haslet Park
 - Pencader Plaza
 - S. COLLEGE AVE.
 - LIBRARY AVE.
 - S. CHAPEL ST.
 - AM. ONLY
 - Newark High School
 - Transit Hub
 - Main Towers
 - Newark Shopping Center
 - Pinebrook Apartments
 - PAPERWILL RD.
 - CLEVELAND AVE.
 - KIRKWOOD HWY.
 - WOODLAWN AVE.
 - OGLETOWN RD.
 - College Square
 - Senior Center/White Chapel/Fountainview
 - START A.M.
 - CARRINGTON WAY
 - ALBION DR.
 - OLD NEWARK RD.
 - MARROWS RD.
 - Chestnut Hill Plaza

UNICITY SYSTEM

- Ridership follows a seasonal pattern similar to DART's, ranging from fewer than 1,300 monthly trips in January to nearly 2,000 in August



UNICITY – ROUTE NI

Annual Ridership (07/17 – 06/18)	Passengers per Revenue Hour	Passengers per Mile	Average Daily Boardings
15,852	8.60	0.77	63

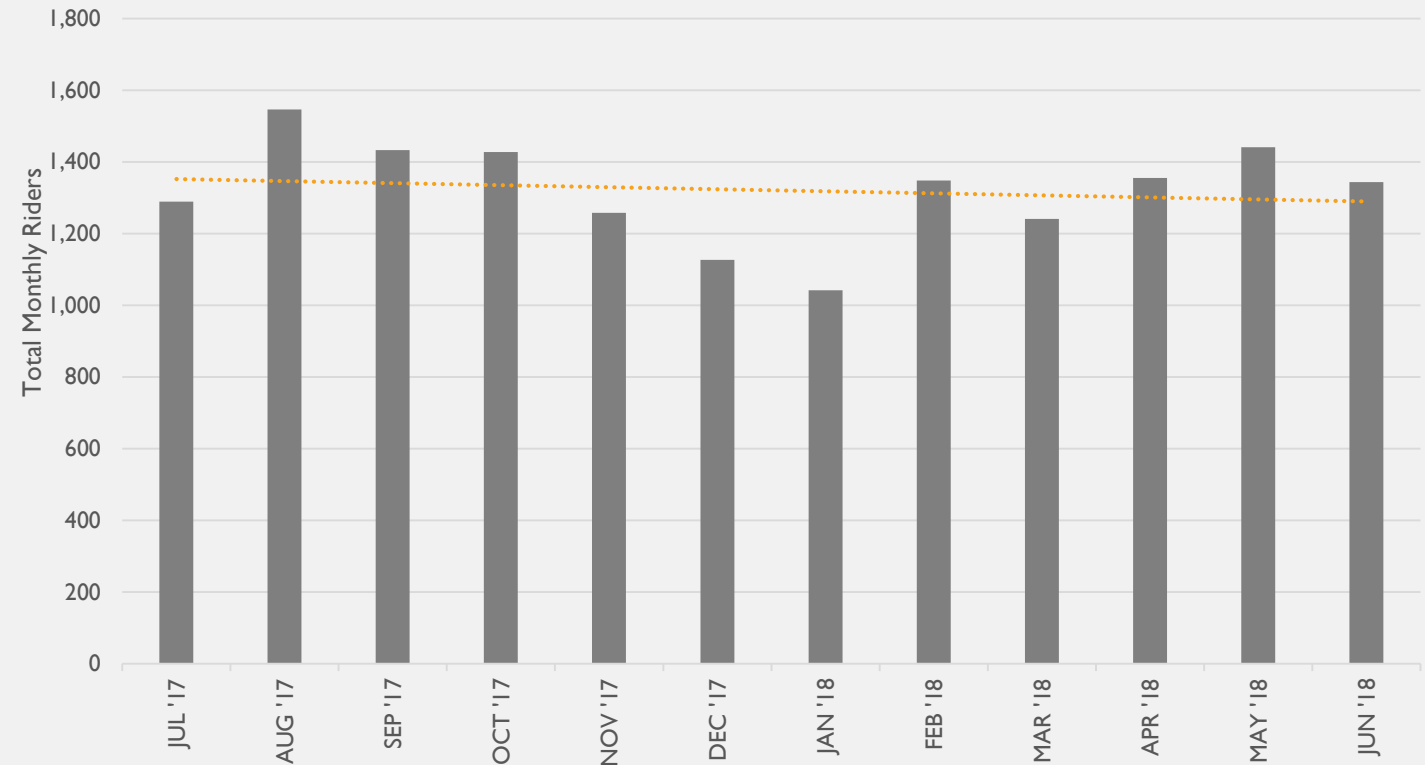
	Total Trips	Service Span	Peak Headway	Off-Peak Headway
Weekday	4.5	08:51 – 16:15	105	105
Saturday		NO SATURDAY SERVICE		
Sunday		NO SUNDAY SERVICE		



UNICITY – ROUTE NI

- NI's ridership by far the highest of the three UNICITY routes, representing more than 77% of the system's annual trips.
- Route NI shows a seasonal ridership pattern similar to that of the entire UNICITY system, with ridership highest in late Summer/early Fall and lowest in December and January

UNICITY Route NI Ridership (July 2017 - June 2018)



UNICITY – ROUTE N2

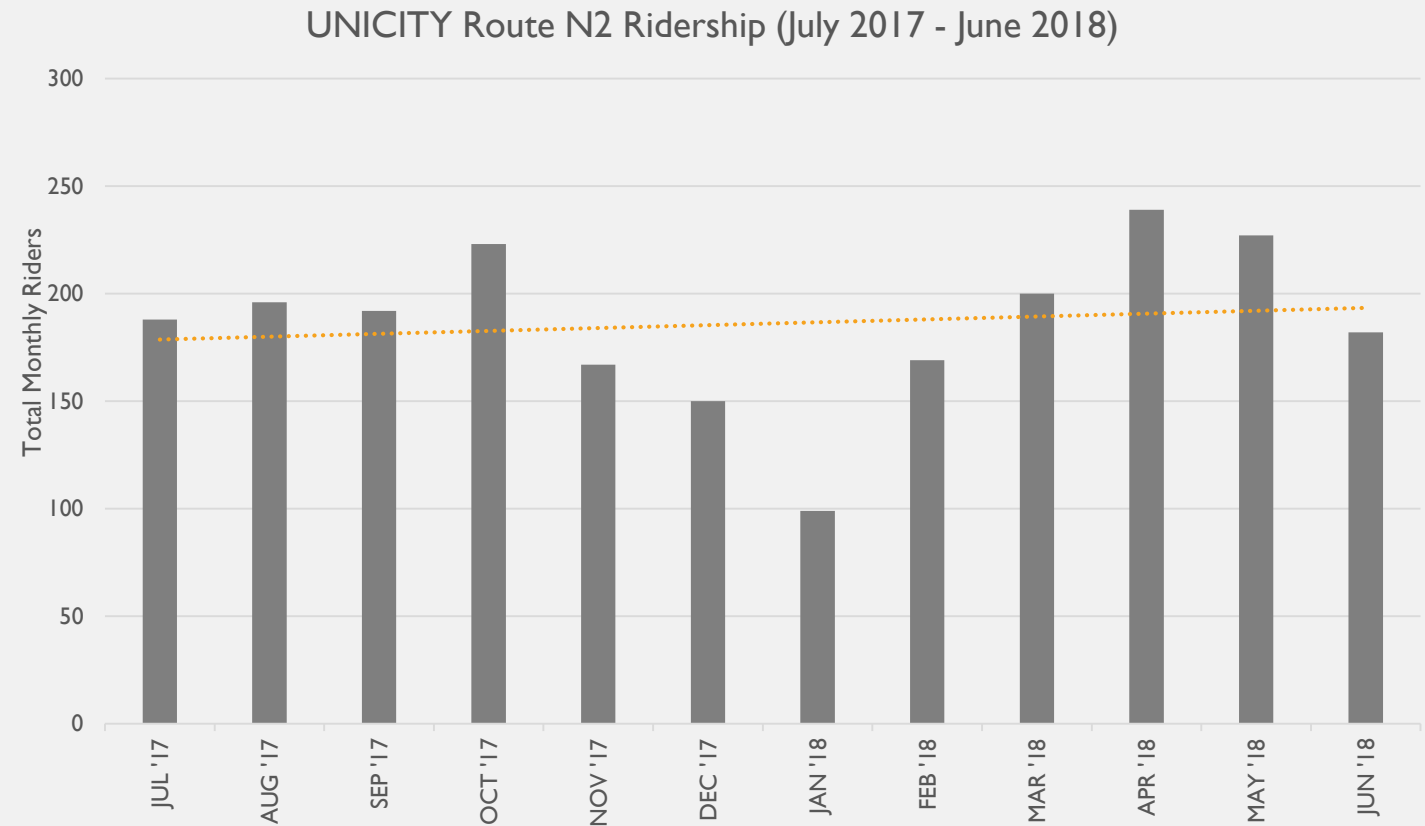
Annual Ridership (07/17 – 06/18)	Passengers per Revenue Hour	Passengers per Mile	Average Daily Boardings
2,232	3.32	0.42	9

	Total Trips	Service Span	Peak Headway	Off-Peak Headway
Weekday	2 (1AM/1PM)	07:20 - 07:59 17:12 - 17:54	-	-
Saturday		NO SATURDAY SERVICE		
Sunday		NO SUNDAY SERVICE		



UNICITY – ROUTE N2

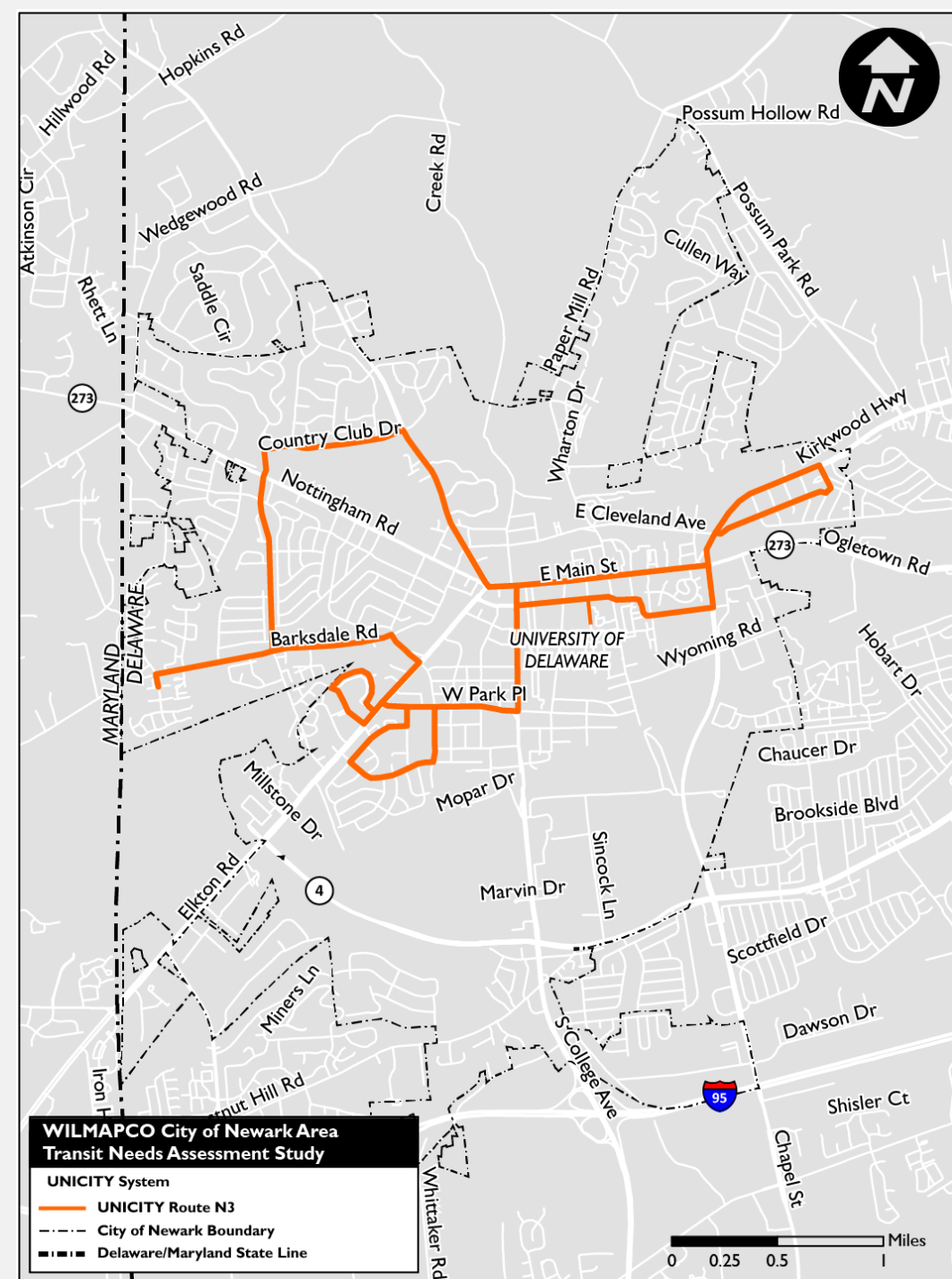
- Route N2 shows a slightly different and more pronounced seasonal variation compared to the DART and other UNICITY routes. Ridership peaks in April and May, and is less than half the typical level in January



UNICITY – ROUTE N3

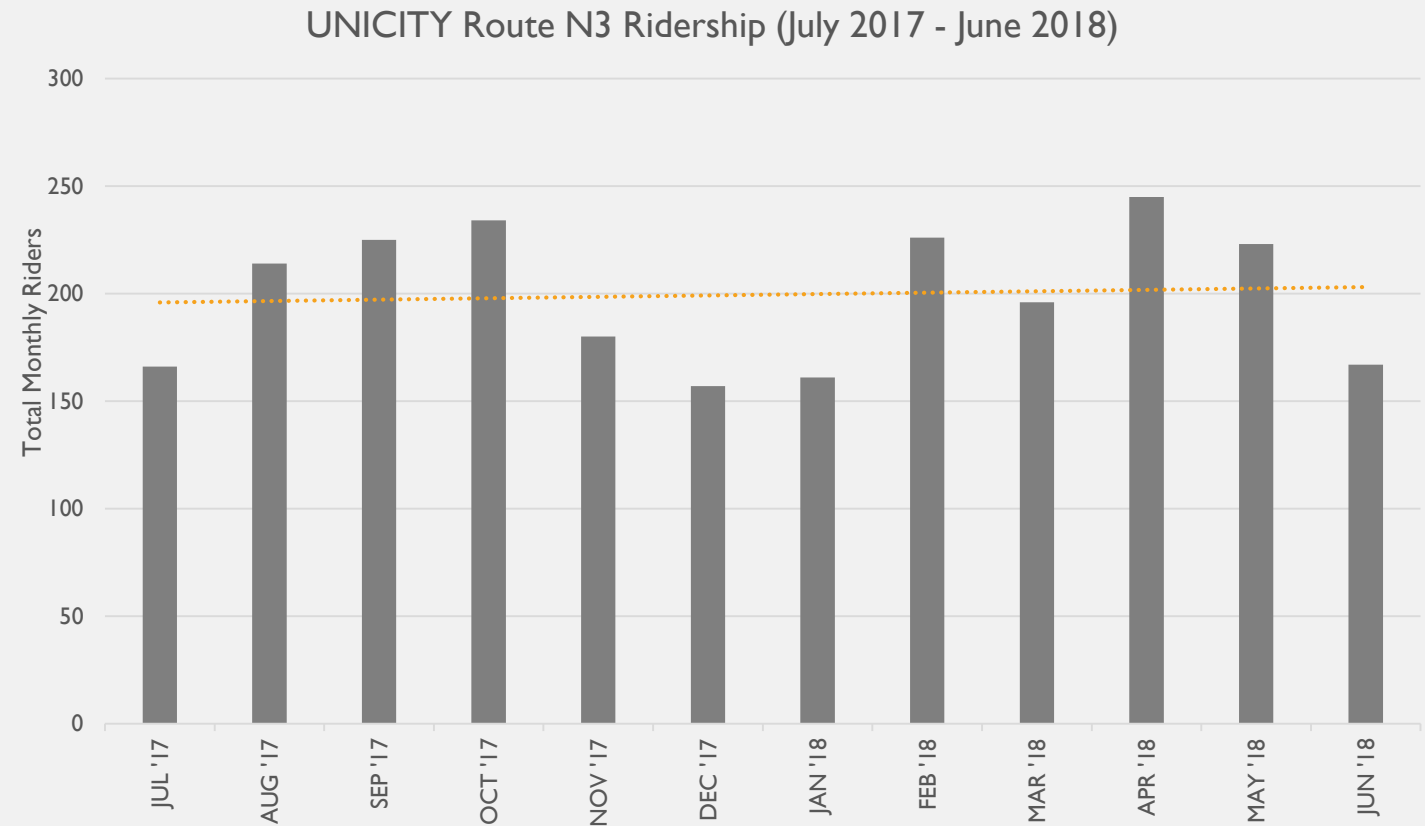
Annual Ridership (07/17 – 06/18)	Passengers per Revenue Hour	Passengers per Mile	Average Daily Boardings
2,394	1.92	0.17	10

	Total Trips	Service Span	Peak Headway	Off-Peak Headway
Weekday	4 (2AM/2PM)	06:47 - 08:51 16:32 - 18:03	35	10
Saturday		NO SATURDAY SERVICE		
Sunday		NO SUNDAY SERVICE		



UNICITY – ROUTE N3

- Route N3 is similar to N2 in its annual ridership pattern, peaking in Spring and bottoming out in December and January



UNICITY ROUTE METRICS

Route	Total Annual Ridership
N1	15,852
N3	2,394
N2	2,232
UNICITY: 67,137	

Route	Passengers per Revenue Hour
N1	8.60
N2	3.32
N3	1.92
UNICITY: 5.45	

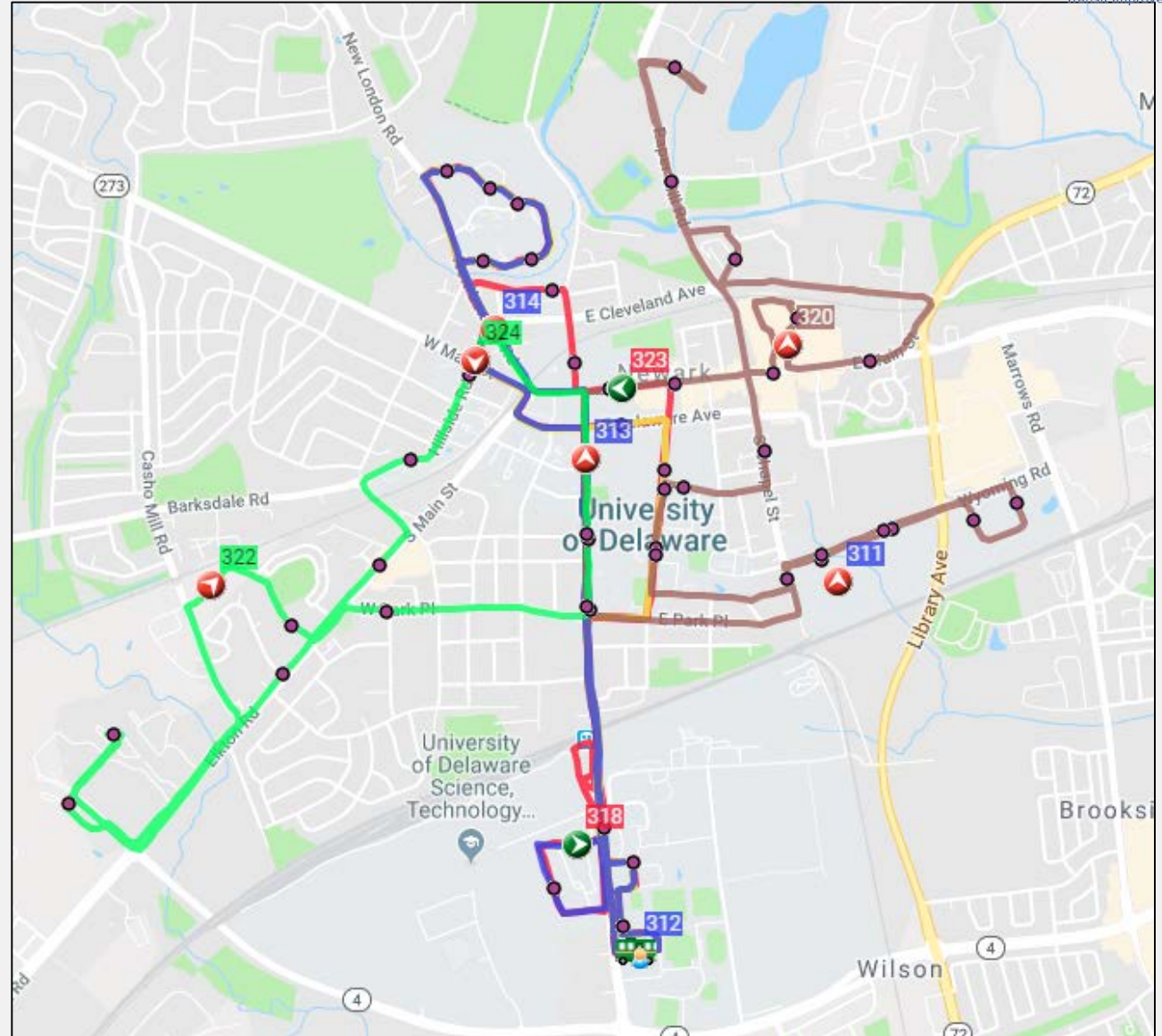
Route	Passengers per Revenue Mile
N1	0.66
N2	0.42
N3	0.17
UNICITY: 0.48	

Route	Average Weekday Riders
N1	63.4
N3	9.6
N2	8.9
UNICITY: 81.9	

EXISTING OPERATIONAL ANALYSIS UNIVERSITY OF DELAWARE SYSTEM

UNIVERSITY OF DELAWARE SYSTEM

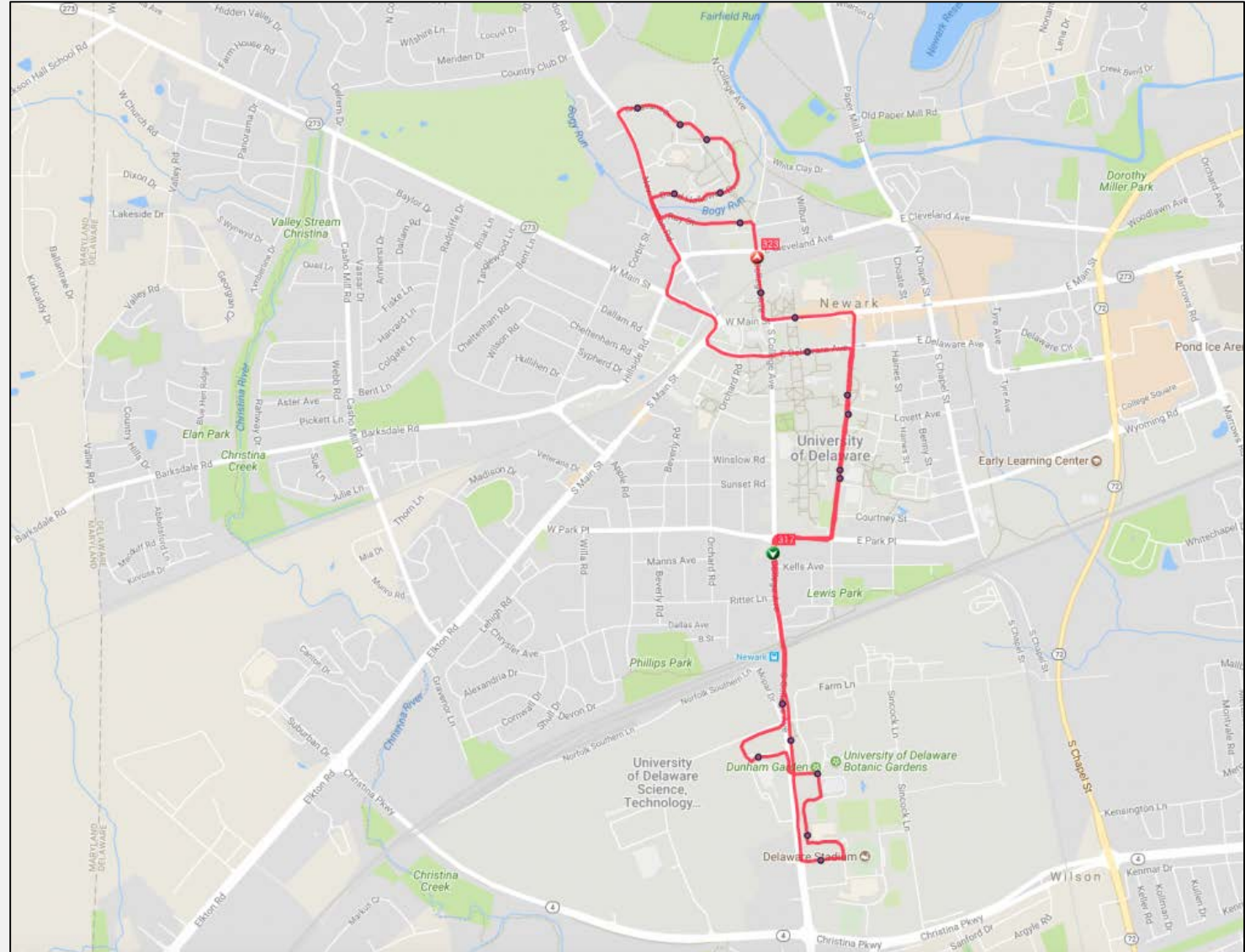
- The University of Delaware operates five main fixed-route bus routes for students, faculty, and staff around the university campus and important student-oriented destinations in Newark.
- They also offer numerous other shuttles and specialized services throughout the year including college football shuttles, commencement services, etc.
- Service is offered all from 5AM to midnight Monday through Thursdays, 5AM to 2:30AM on Fridays, noon to 2:30AM on Saturdays, and noon to midnight on Sundays.
- Limited services are provided during the summer term, school breaks, and holidays.



UD SYSTEM – NORTH/SOUTH ACADEMY

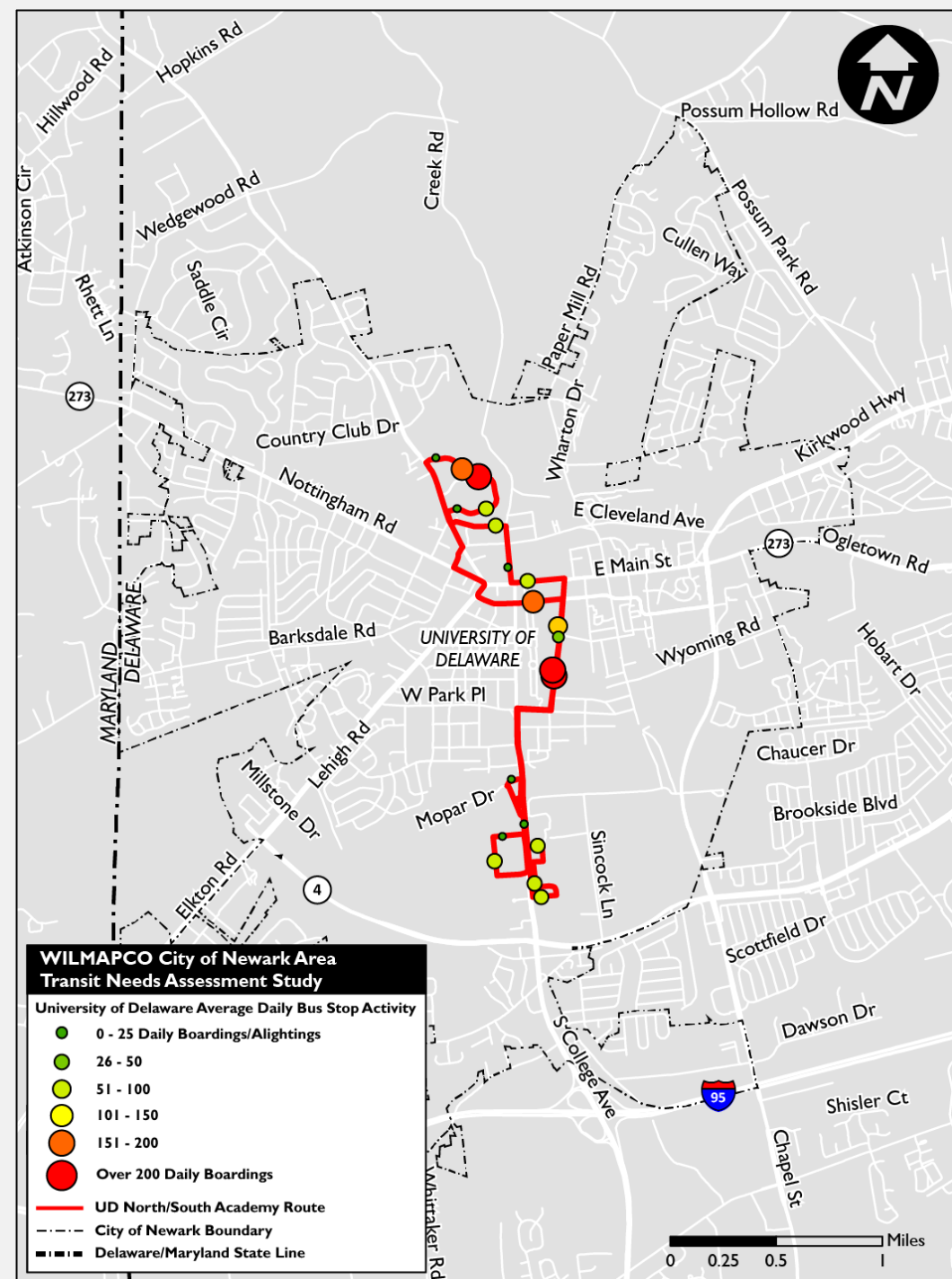
Annual Ridership (2017-2018)	Passengers per Revenue Hour	Passengers per Mile	Average Daily Boardings
193,621	-	-	-

	Trips	Service Span	Day Headway	Evening Headway
Weekday	41/46(Fri)	07:00 – 23:18 07:00 – 02:38 (Fri)	20	40
Saturday	22	12:02 – 02:38	40	40
Sunday	17	12:02 – 23:18	40	40



UD SYSTEM – NORTH/SOUTH ACADEMY

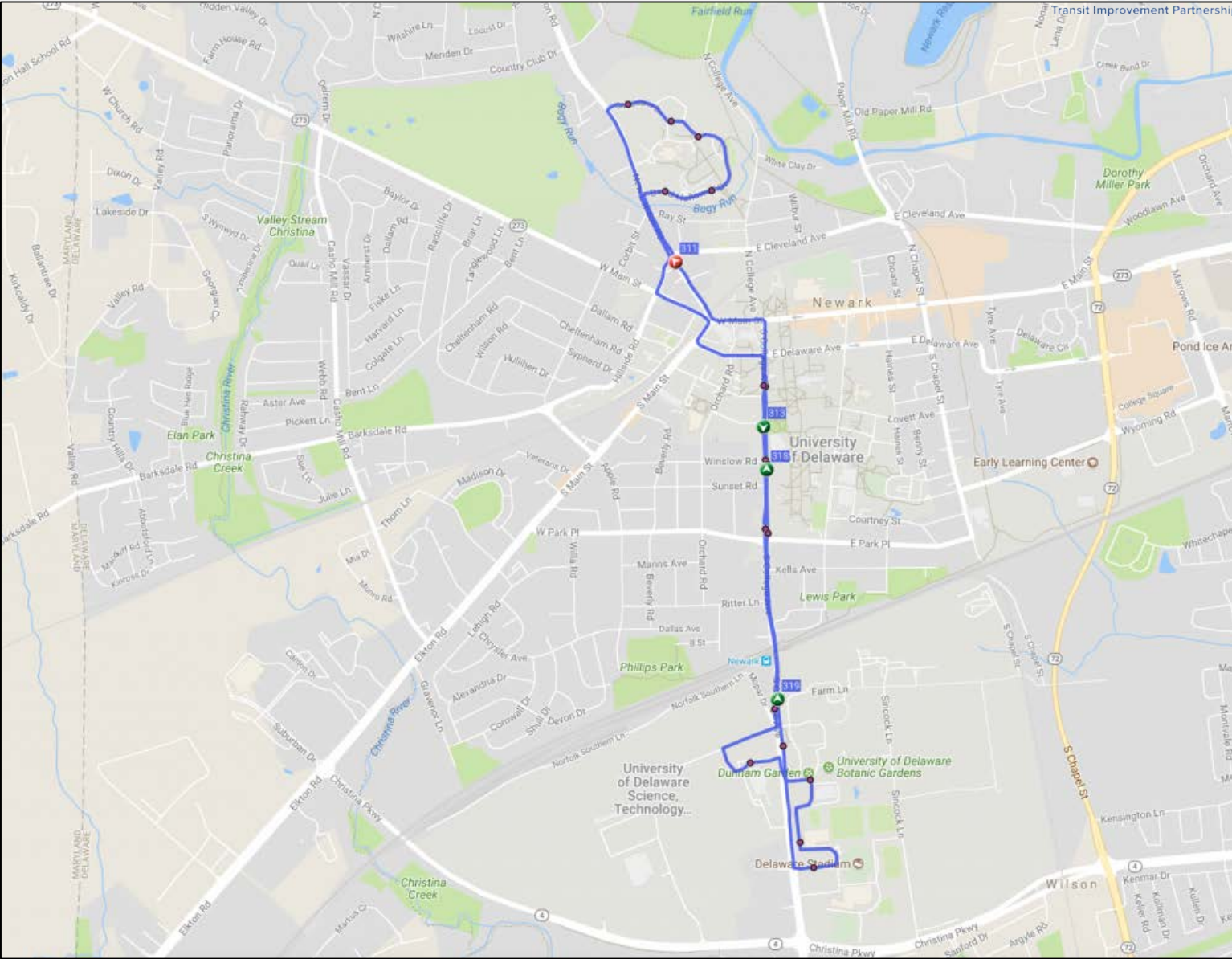
- Route operates between north, central, and south campuses along Academy Street and College Avenue
- Operates frequent service during day and limited service on evenings and weekends
- Route does not operate when system operates summer/holiday schedule
- Most popular stops in include the following:
 - Perkins Student Center
 - Academy Street Dining Hall
 - George Reed Hall
 - Christiana Commons



UD SYSTEM – NORTH/SOUTH COLLEGE

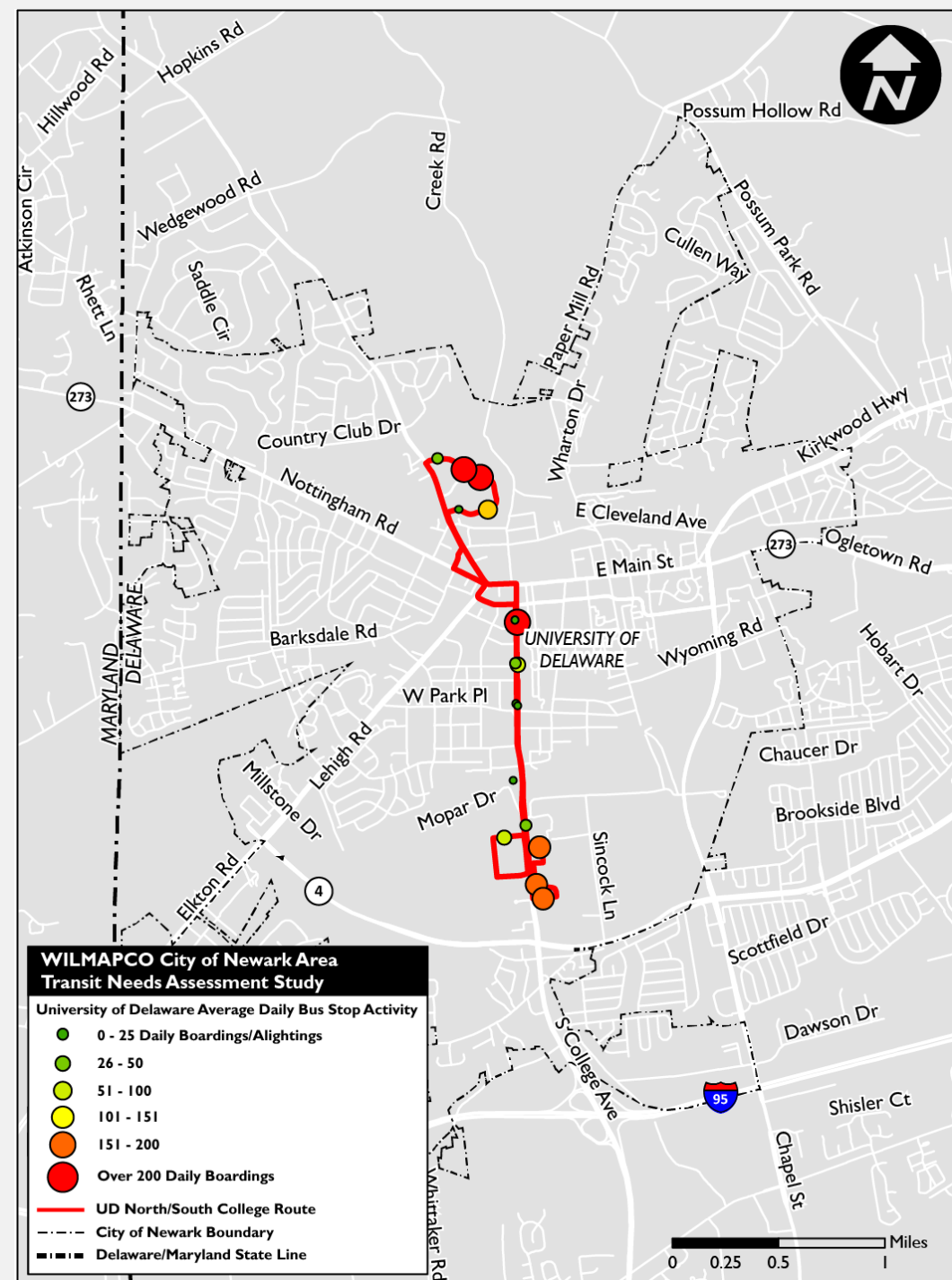
Annual Ridership (2017-2018)	Passengers per Revenue Hour	Passengers per Mile	Average Daily Boardings
462,174	-	-	-

	Trips	Service Span	Day Headway	Evening Headway
Weekday	81	07:00 – 23:23	7-10	30
Saturday	NO SATURDAY SERVICE			
Sunday	NO SUNDAY SERVICE			



UD SYSTEM – NORTH/SOUTH COLLEGE

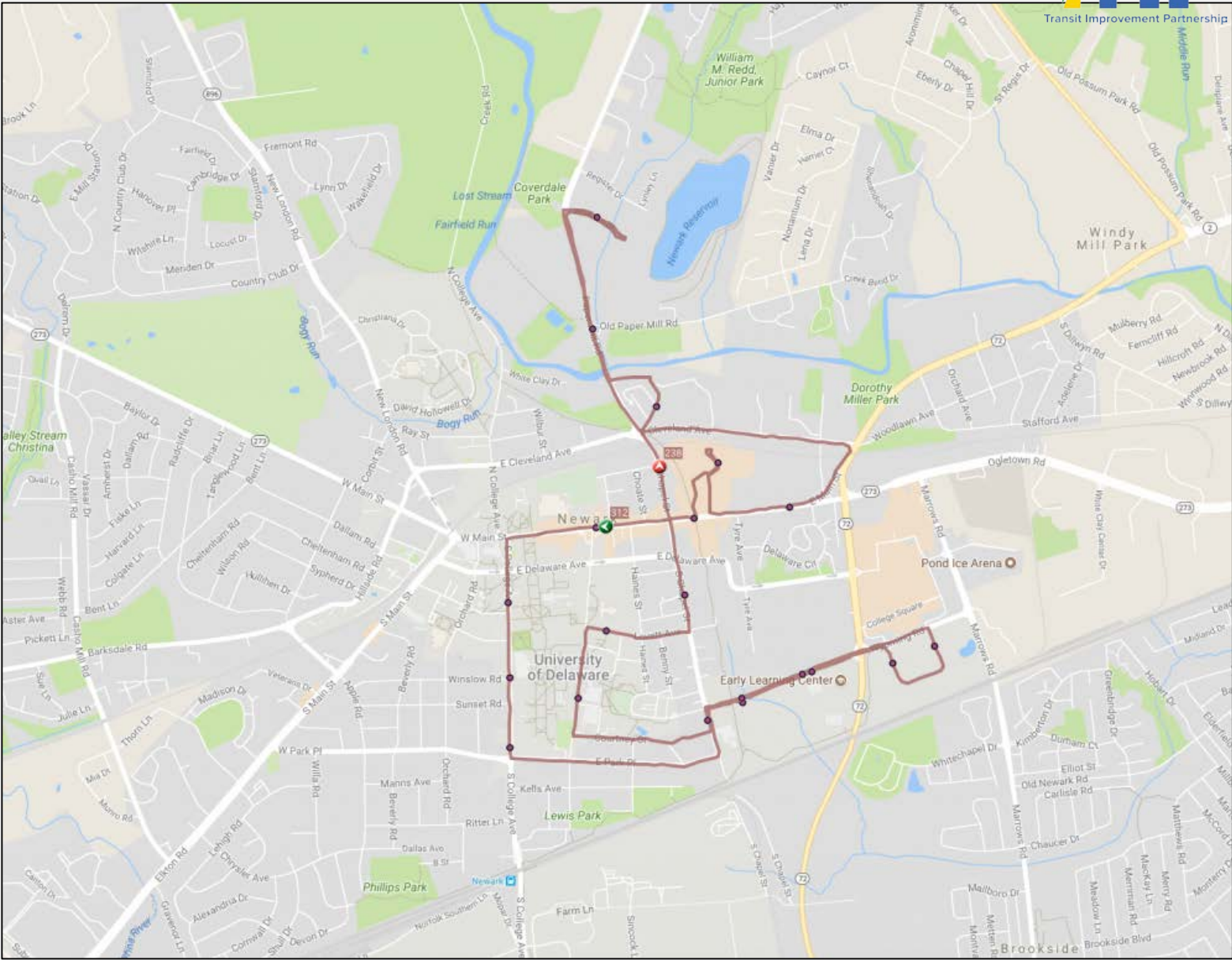
- Route operates between north, central, and south campuses along College Avenue
- Operates frequent service during day and regular service during evenings
- Route operates on holidays/summer/winter periods on weekdays and weekends
- Most popular stops in include the following:
 - Smith Hall
 - George Reed Hall
 - Christiana Commons
 - Ice Arena/Townsend
 - Field House (Front Door and Shelter)



UD SYSTEM – EAST LOOP

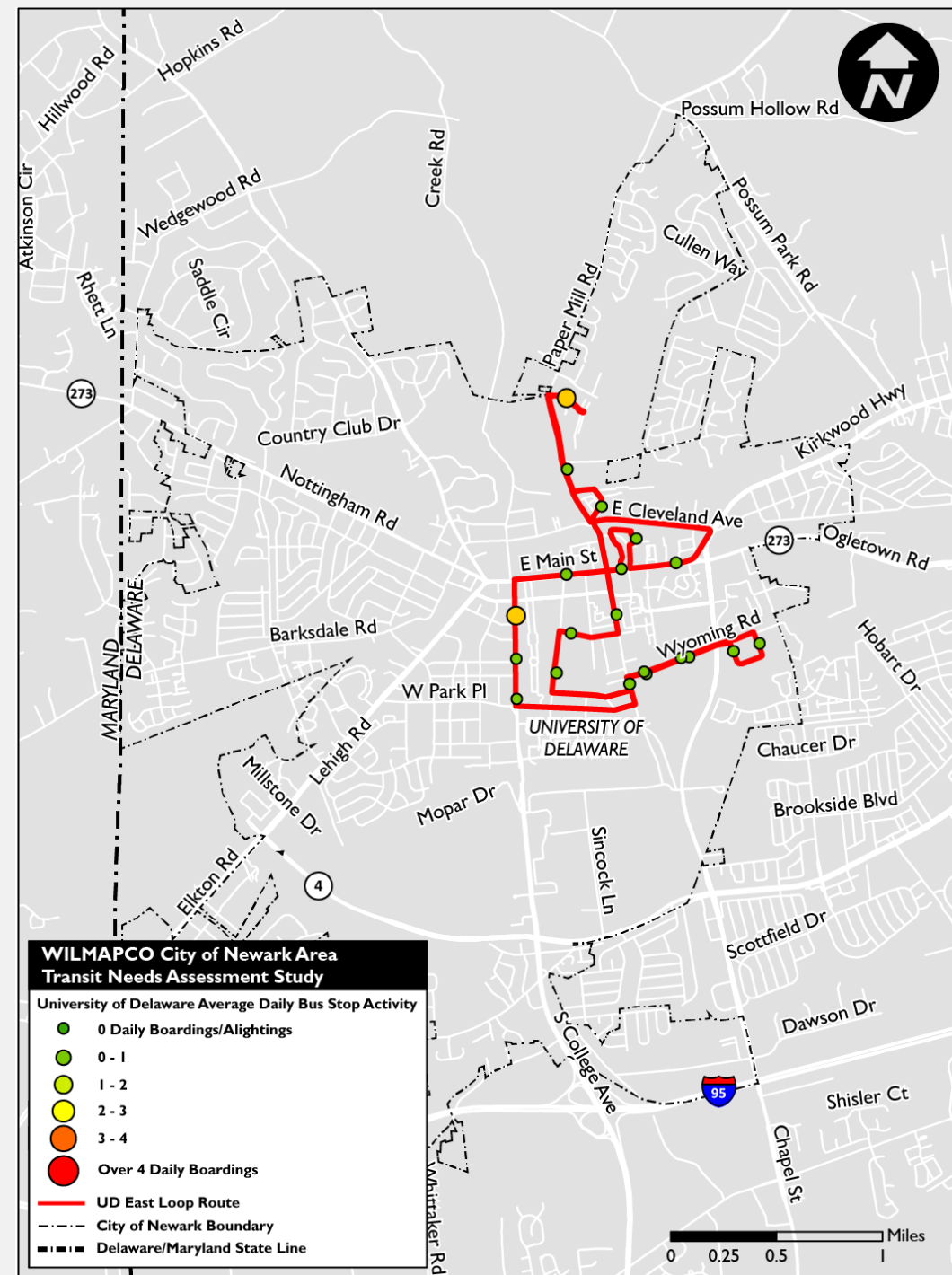
Annual Ridership (2017-2018)	Passengers per Revenue Hour	Passengers per Mile	Average Daily Boardings
2,093	-	-	-

	Trips	Service Span	Day Headway	Evening Headway
Weekday	35/39(Fri)	06:55 – 23:20 06:55 – 02:30 (Fri)	20-25	45
Saturday	19	12:05 – 02:20	45	45
Sunday	15	12:05 – 23:20	45	45



UD SYSTEM – EAST LOOP

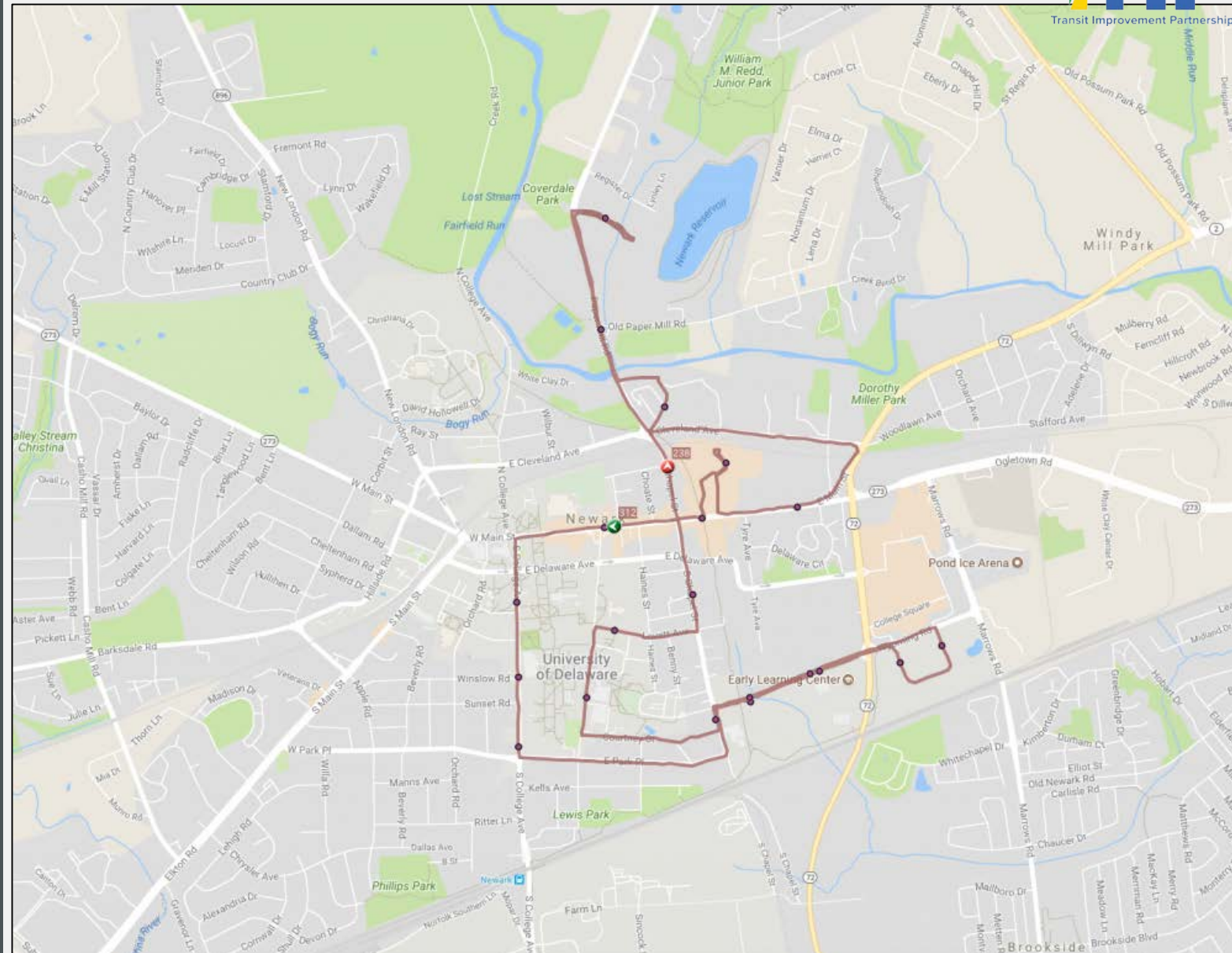
- Route operates between campus, downtown Newark, and Delaware Technology Park
- Operates regular service on weekdays and limited service during evenings and weekends
- Route operates on holidays/summer/winter periods on weekdays and weekends
- Most popular stops in include the following:
 - Smith Hall
 - The Pinebrook Apartments



UD SYSTEM – WEST LOOP

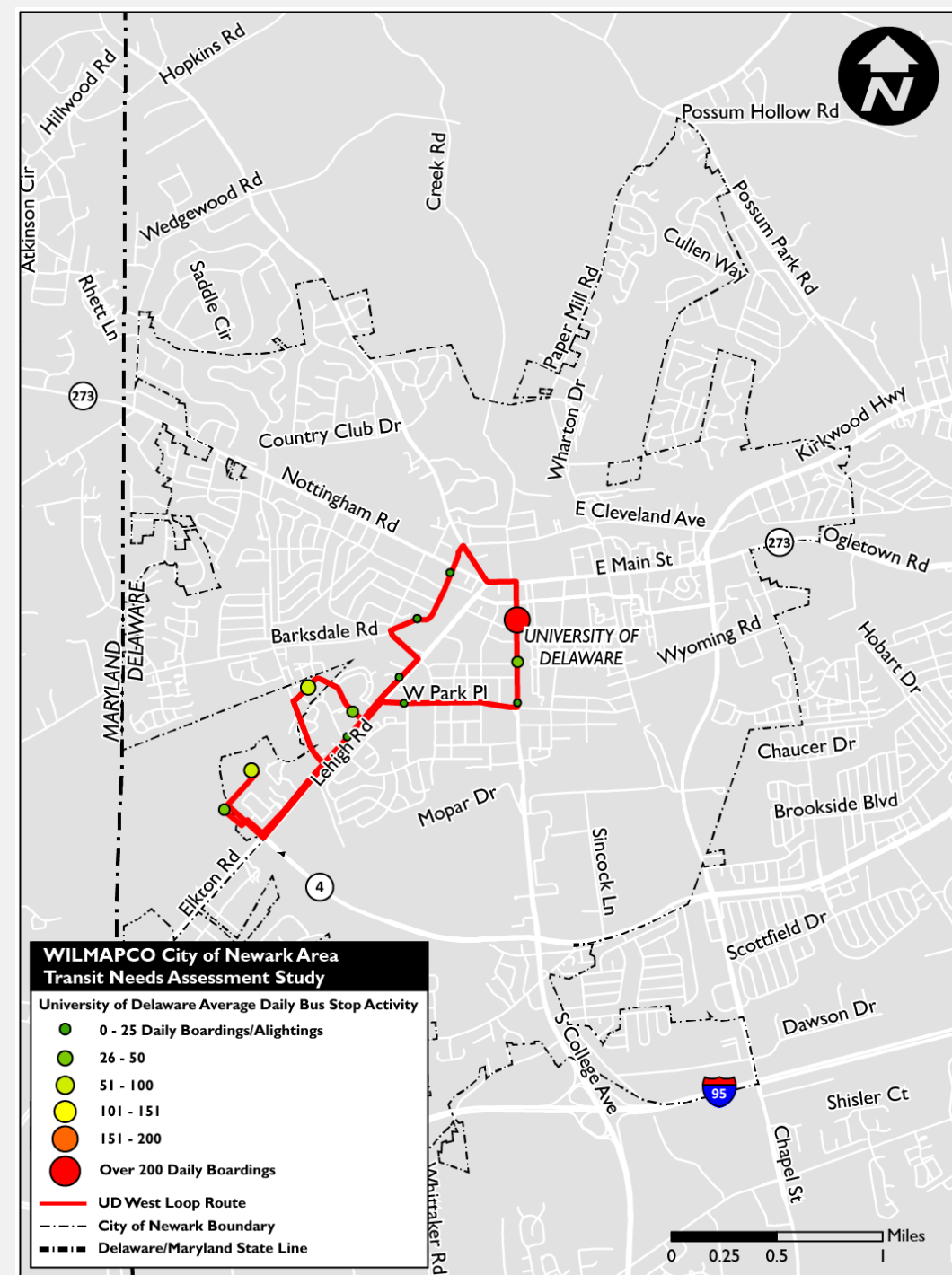
Annual Ridership (2017-2018)	Passengers per Revenue Hour	Passengers per Mile	Average Daily Boardings
107,325	-	-	-

	Trips	Service Span	Day Headway	Evening Headway
Weekday	63/69(Fri)	07:00 – 23:04 07:00 – 02:34 (Fri)	10-20	30
Saturday	29	12:04 – 02:34	30	30
Sunday	24	12:04 – 00:04	30	30



UD SYSTEM – WEST LOOP

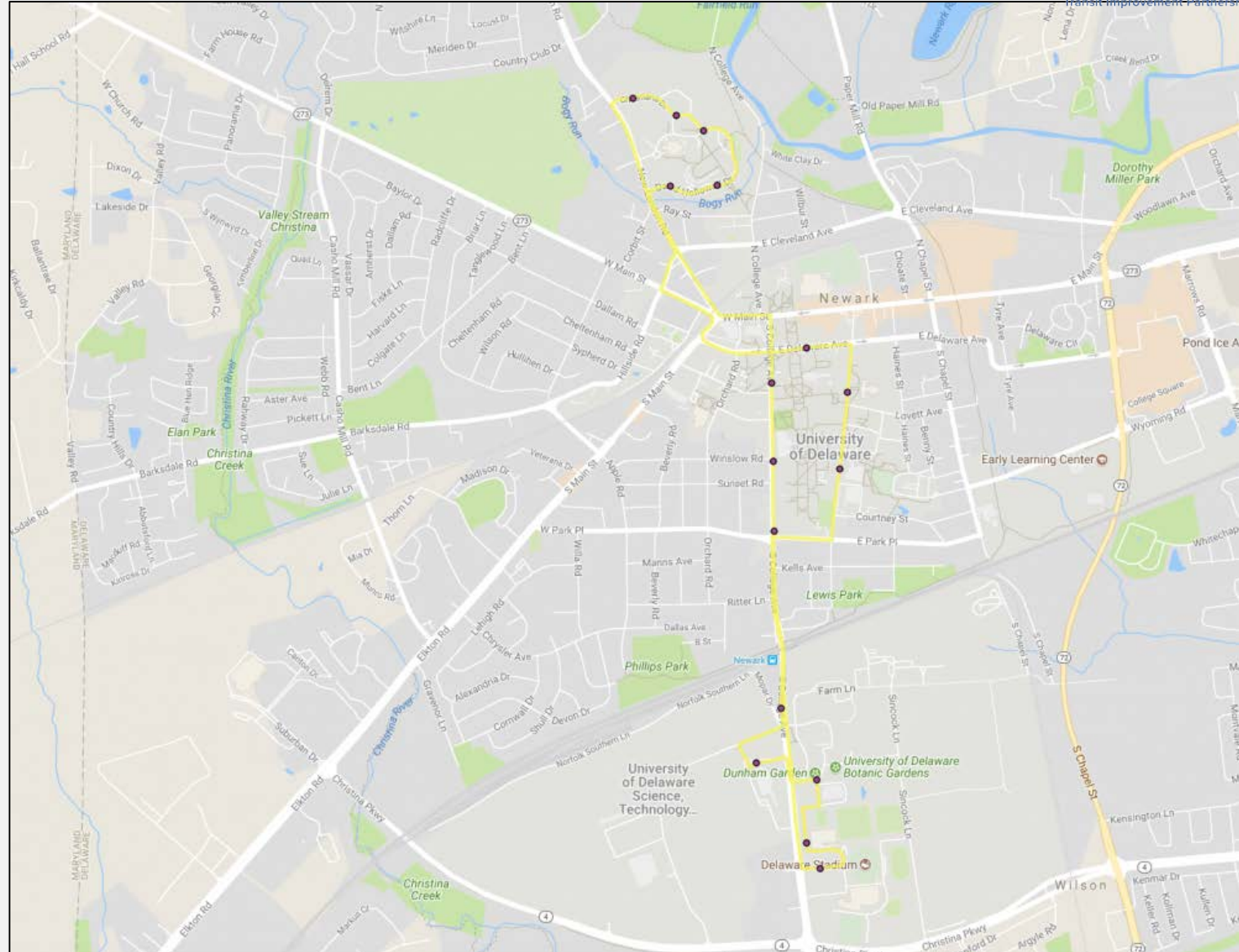
- Route operates between campus, and west/southwest Newark
- Operates frequent service on weekdays and regular service during evenings and weekends
- Route operates on holidays/summer/winter periods on weekdays and weekends
- Most popular stops in include the following:
 - Smith Hall
 - Retreat North apartments
 - Thorn Lane apartments



UD SYSTEM – EARLY BIRD

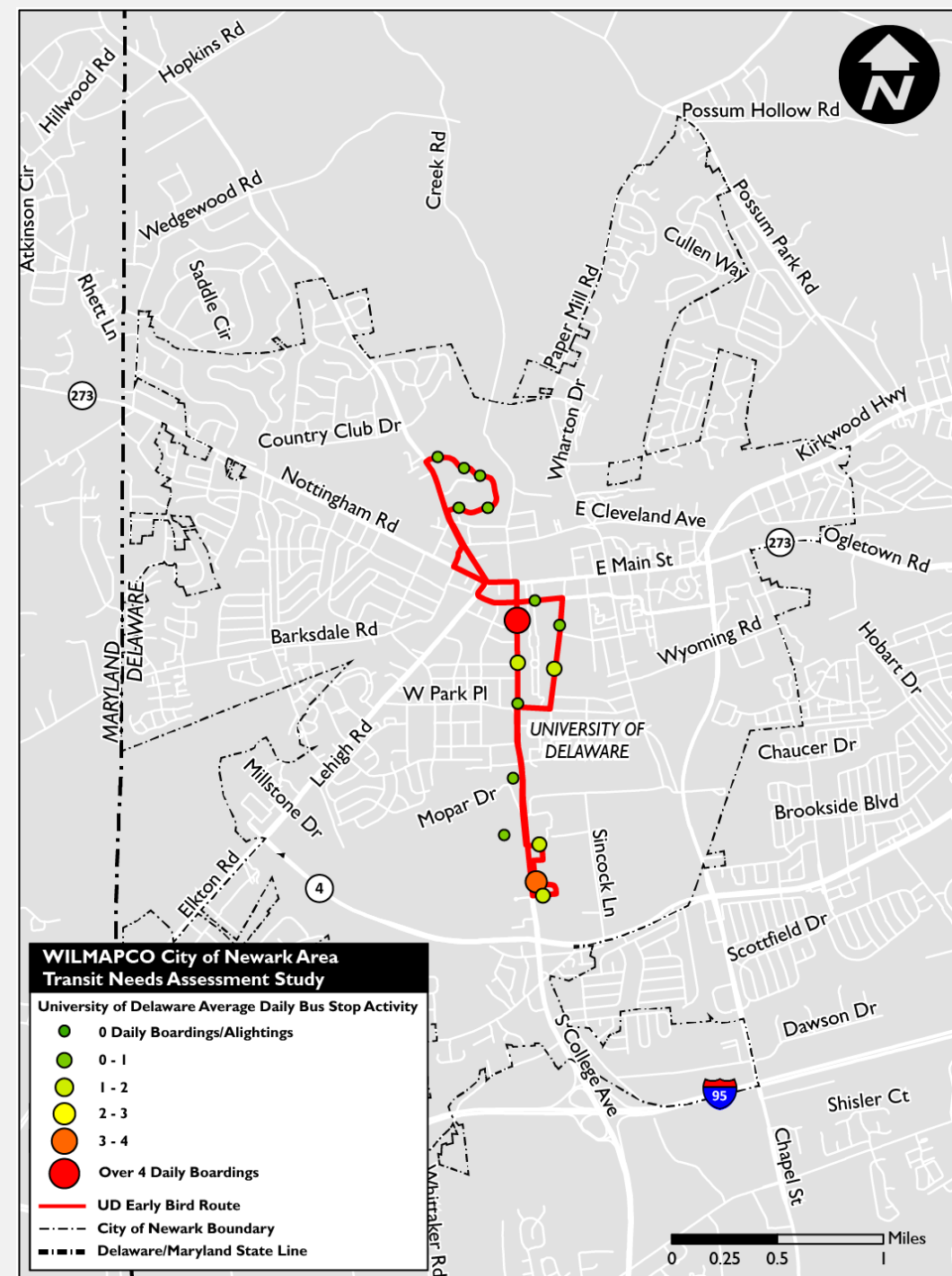
Annual Ridership (2017-2018)	Passengers per Revenue Hour	Passengers per Mile	Average Daily Boardings
5,589	-	-	-

	Trips	Service Span	Day Headway	Evening Headway
Weekday	4	04:50 –06:58	30	-
Saturday	NO SATURDAY SERVICE			
Sunday	NO SUNDAY SERVICE			



UD SYSTEM – EARLY BIRD

- Route operates between north, central, and south campuses along Academy Street and College Avenue
- Operates regular service on early weekday mornings only
- Most popular stops in include the following:
 - Smith Hall
 - Field House (Main Entrance)



TRANSIT OPERATIONS PRELIMINARY FINDINGS

- Ridership decreases between December and February across most services with increases in ridership outside of winter including the summer period when most students are not in school.
- Frequent service all-day to both Christiana and Wilmington currently provided by DART
- No schedule coordination between transit agencies but frequent service exists on both DART and UD services
- Lack of clock-faced headways on Cecil Transit, UNICITY, and UD evening services could be confusing for riders
- Large loops and frequent diversions on all UNICITY routes create very long travel times for riders
- UNICITY is the only real intra-Newark transit service for non-student Newark residents

PUBLIC OUTREACH

PUBLIC OUTREACH

- Purpose and format
- Potential date

NEXT STEPS