



**Arlington
Public
Schools**



Transportation Planning BAC

December 12, 2018

Current Planning Projects



- **Bus Planning**
 - General Education Service
 - Bus efficiency project – all levels
 - Yellow Bus vs ART (HS)
 - SPED Transportation
 - Workshop and plan development
 - **Staff TDM Program**
 - Short-term recommendations
-

APS Bus System Overview

- 189 vehicles
 - General education buses: 133
 - Special Education: 57
- **154 routes**
 - Covering 407 trips to schools
 - General education = 309
 - Special Education= 98
- **149 Drivers**
- ~2,500 bus stops (total)

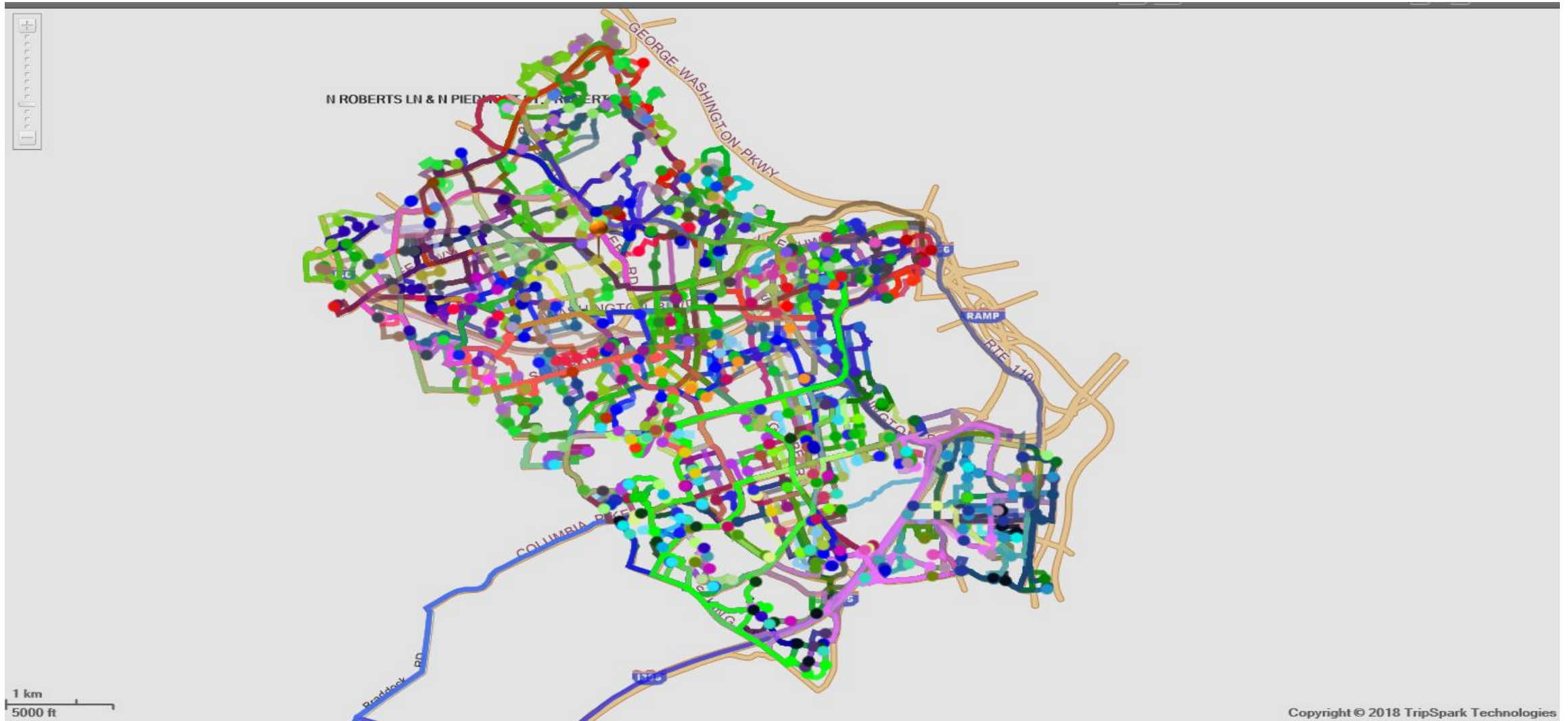


**Fall 2018 figures*

Visualizing 156 Routes



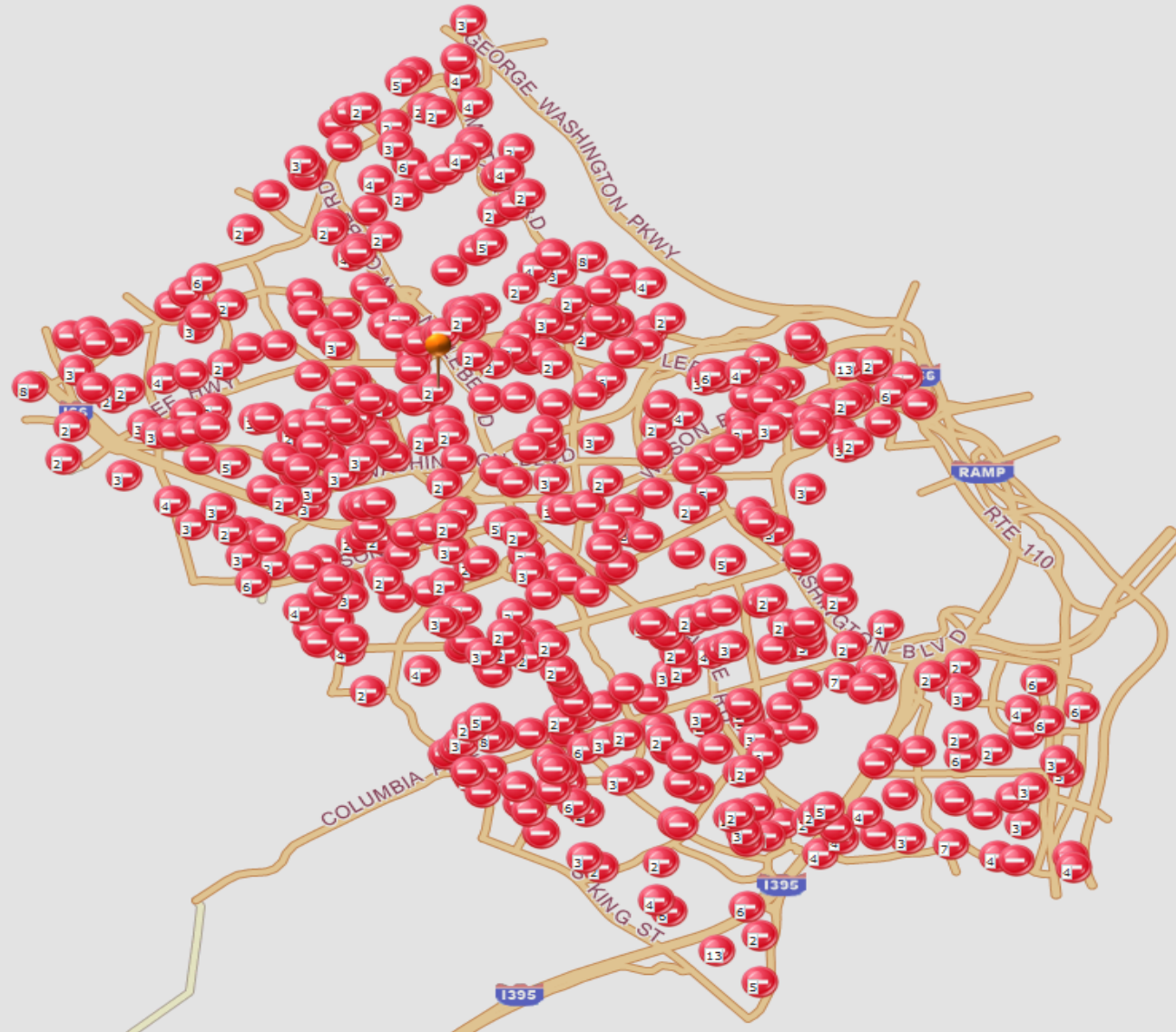
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~2,500 Bus Stops



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Bus Ridership

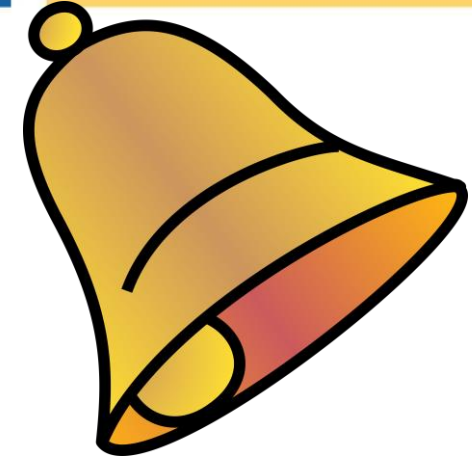


Students Eligible to be Transported in SY17-18

	Eligible	AM Actual	%	PM Actual	%
General Education	15,487	5,578	36.02%	5,561	35.91%
Special Education	718	407	56.89%	347	48.31%
Total	16,205	5,985	36.93%	5,908	36.46%

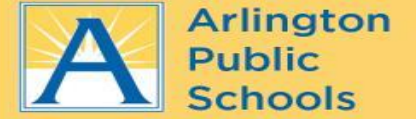
*Actual student count as required by the VDoE.
Count conducted from October 16 to October 20, 2017.
Collecting 2018 data this month.*

****2017-2018 School Year data**



- **Arrival**
 - 7:50 AM (5 MS)
 - 7:55 AM Career Ctr/Arlington Community HS
 - 8:00 AM (4 ES)
 - 8:19 AM (3 HS)
 - 8:25 AM (4 ES)
 - 9:00 AM (15 ES)
 - 9:15 AM Stratford
 - 9:24 AM H-B Woodlawn
- **Dismissal**
 - 2:24 PM (5 MS)
 - 2:41 PM (4 ES)
 - 3:01 PM (3 HS)
 - 3:06 PM (4 ES)
 - 3:10 PM CC/Arlington Community
 - 3:41 PM (15 ES)
 - 4:00PM Stratford
 - 4:06 PM H-B Woodlawn
- **Despite the complexity, APS has been able to achieve a 92% on-time morning arrival rate overall for ALL buses.**

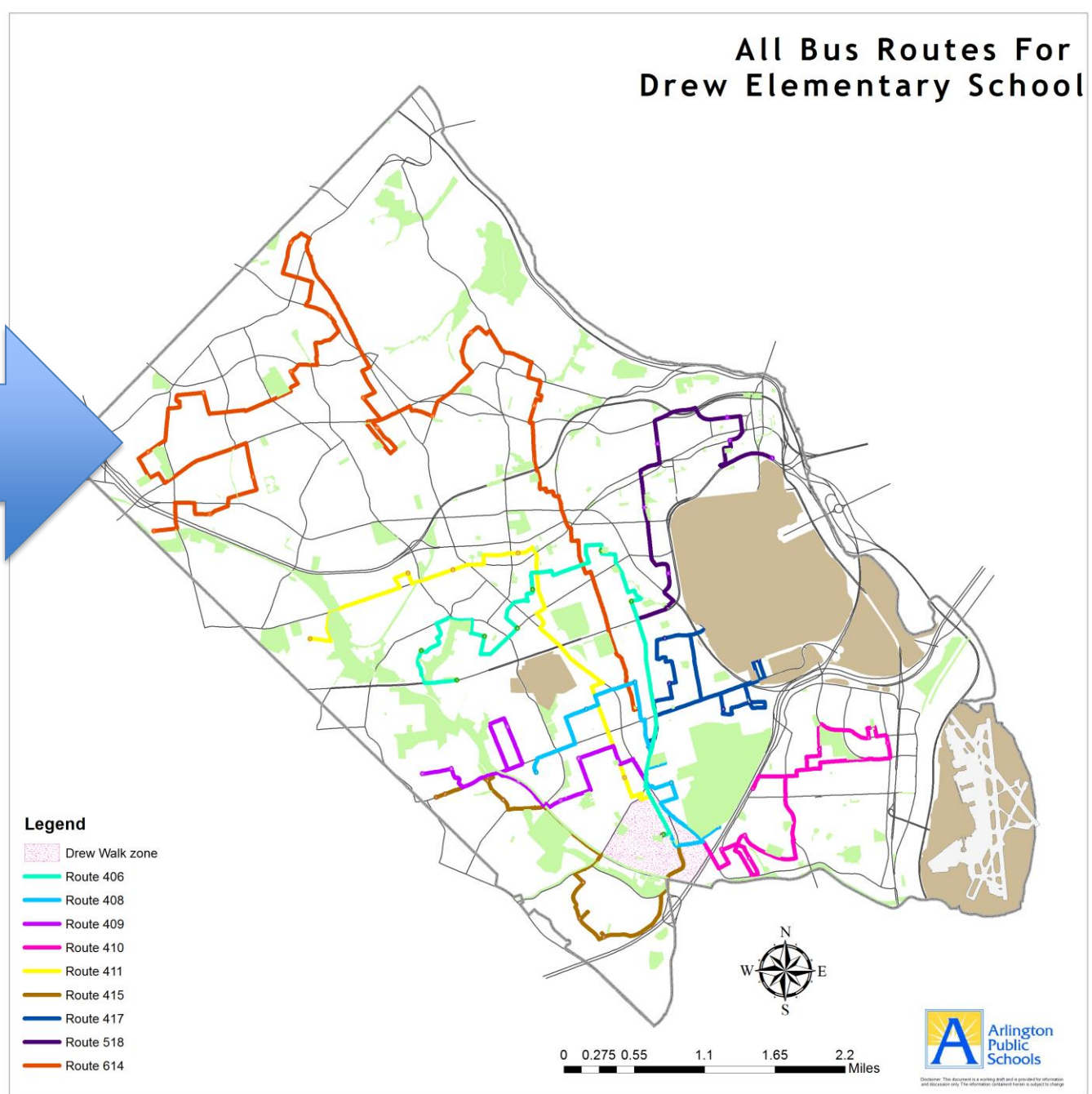
Productivity (General Ed)



School level & #Total trips	Planned Productivity<50%	Actual Productivity(AM) <50%
ES (141)	20 trips (11 option)	55 trips (32 option)
MS (61)	3 trips (1 option)	9 trips (2 option)
HS (73)	10 trips	24 trips
HB (12)	1 trip	5 trips

Drew Experience

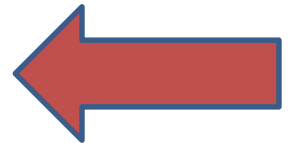
All Bus Routes For Drew Elementary School



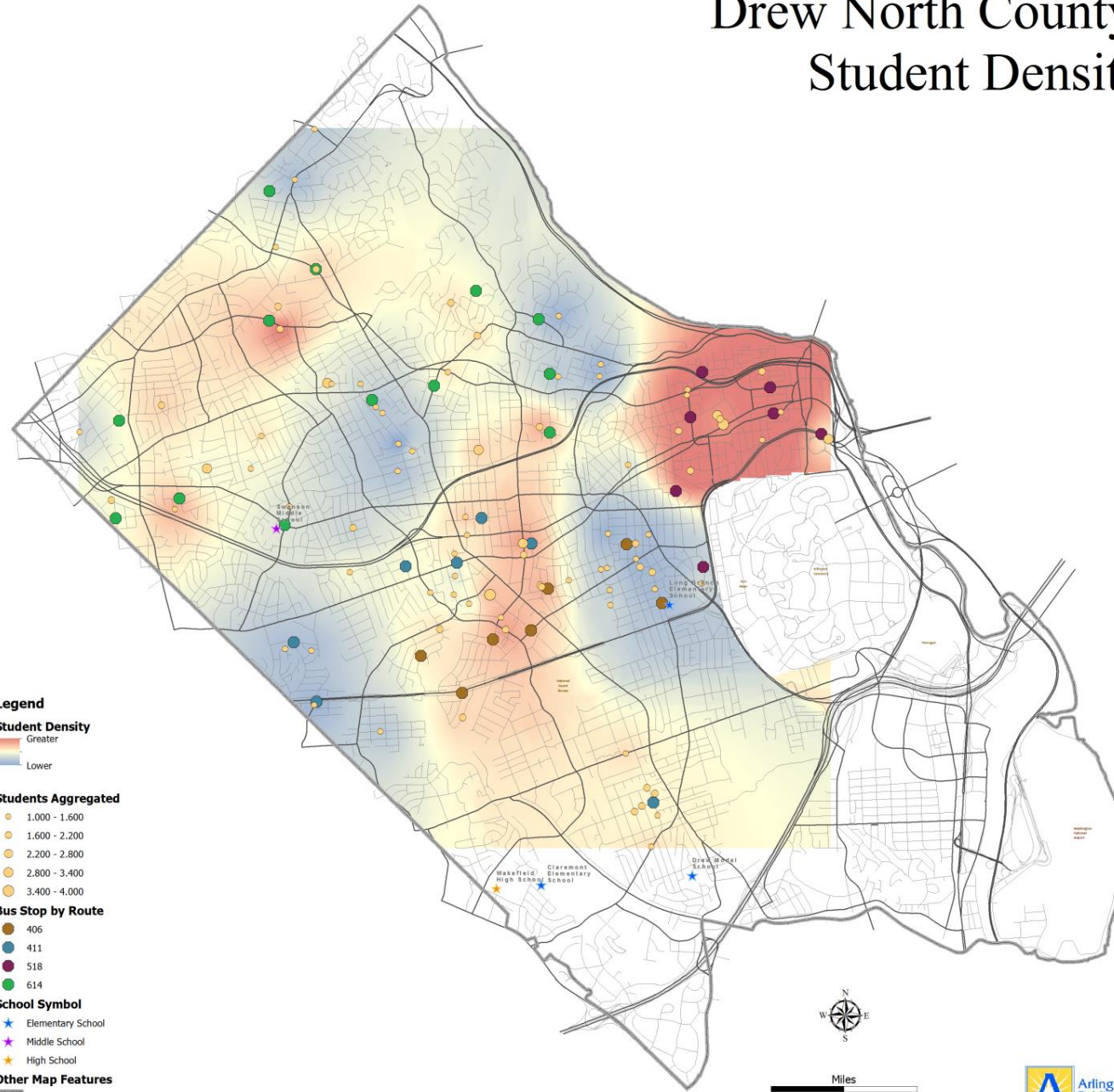
Current Drew No County Route Summary



	406	411	518	614
# Routes Prior	Abingdon, Wakefield	Claremont	Carlin Springs, Long Branch	Swanson
Launch location	Wakefield	Claremont	Long Branch	Swanson MS
Prior school Bell times	8:00 AM/8:19 AM	8:00 AM	8:00 AM/8:25 AM	7:50 AM
Drop-off time for prior school	7:31 AM/8:00AM	7:33 AM	7:15 AM/8:04 AM	7:20 AM
First pick-up time	8:20 AM	8:02 AM	8:24 AM	7:39:00 AM*
Scheduled arrival time	8:55 AM	8:46 AM	8:52 AM	8:45 AM
Scheduled Travel time	35 mins	44 mins	28 mins	1 hr 6 mins
No. Pick Up Stops	7	7	7	13
Total students assigned	31	26	25	47
Avg Assigned Students per stop	4.4	3.7	3.6	3.6
Avg No. Students riding	25	20	22	33



Drew North County Student Density



Legend

Student Density



Students Aggregated



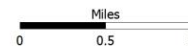
Bus Stop by Route



School Symbol



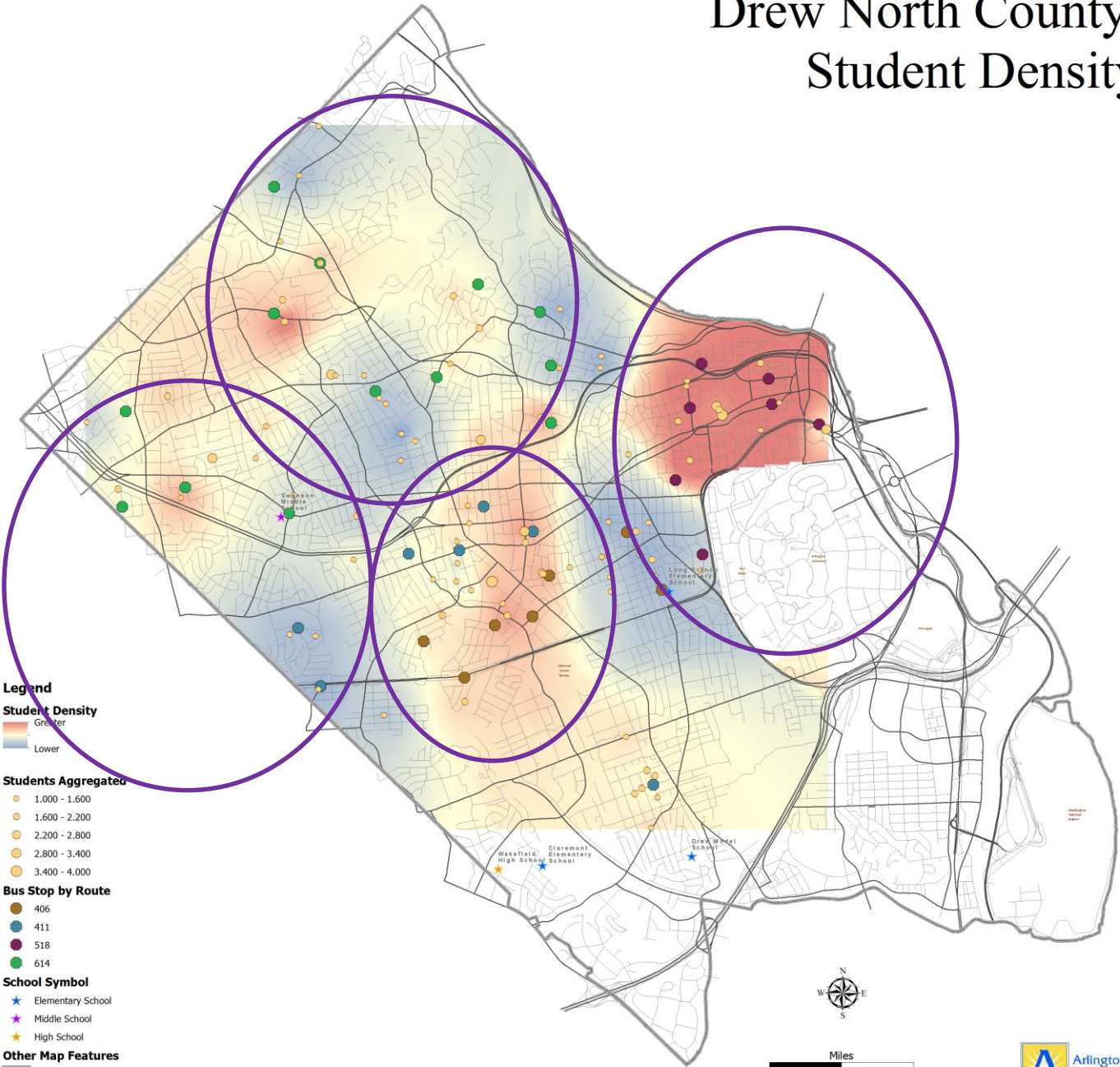
Other Map Features



Drew North County Student Density



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Legend

Student Density
█ Greater
█ Lower

Students Aggregated

- 1,000 - 1,600
- 1,600 - 2,200
- 2,200 - 2,800
- 2,800 - 3,400
- 3,400 - 4,000

Bus Stop by Route

- 406
- 411
- 518
- 614

School Symbol

- ★ Elementary School
- ★ Middle School
- ★ High School

Other Map Features

- ▭ Arlington County Boundary



Additional Ideas for Reducing Travel Time

- Consolidate Stops
- Allow families to choose any stop (on any route) to have their child formally assigned*

** any deviations follow same practice as now (note from parent about change)*

Summer School Consolidated Bus Stop Pilot – MS & HS

- **Two summer school sites: MS @ Kenmore; HS @ Wakefield**
 - about 1,500 students eligible for bus (1,130 HS; 380 MS)
- **MS** = 14 routes; 29 stops; avg # stops per route = 2 (range 1-3)
 - Avg students/stop = 13
- **HS** = 23 Gen Ed routes; 42 stops; avg # stops per route = 2 (range 1-5)
 - Avg students/stop = 28
- **Travel time** minimized due to limited stops
 - Longest HS route from Falls Church* to Wakefield w/ 5 stops @ 45 mins
- **Parent survey** (77 responses)
 - For those who did not take the bus:
 - **none** said it was because the ride was too long.
 - 2 of 15 said it was because the stop was too far
 - Most students walked to the stop, some were driven, some biked



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ART Bus Integration Project



Systems Comparison



- **APS**

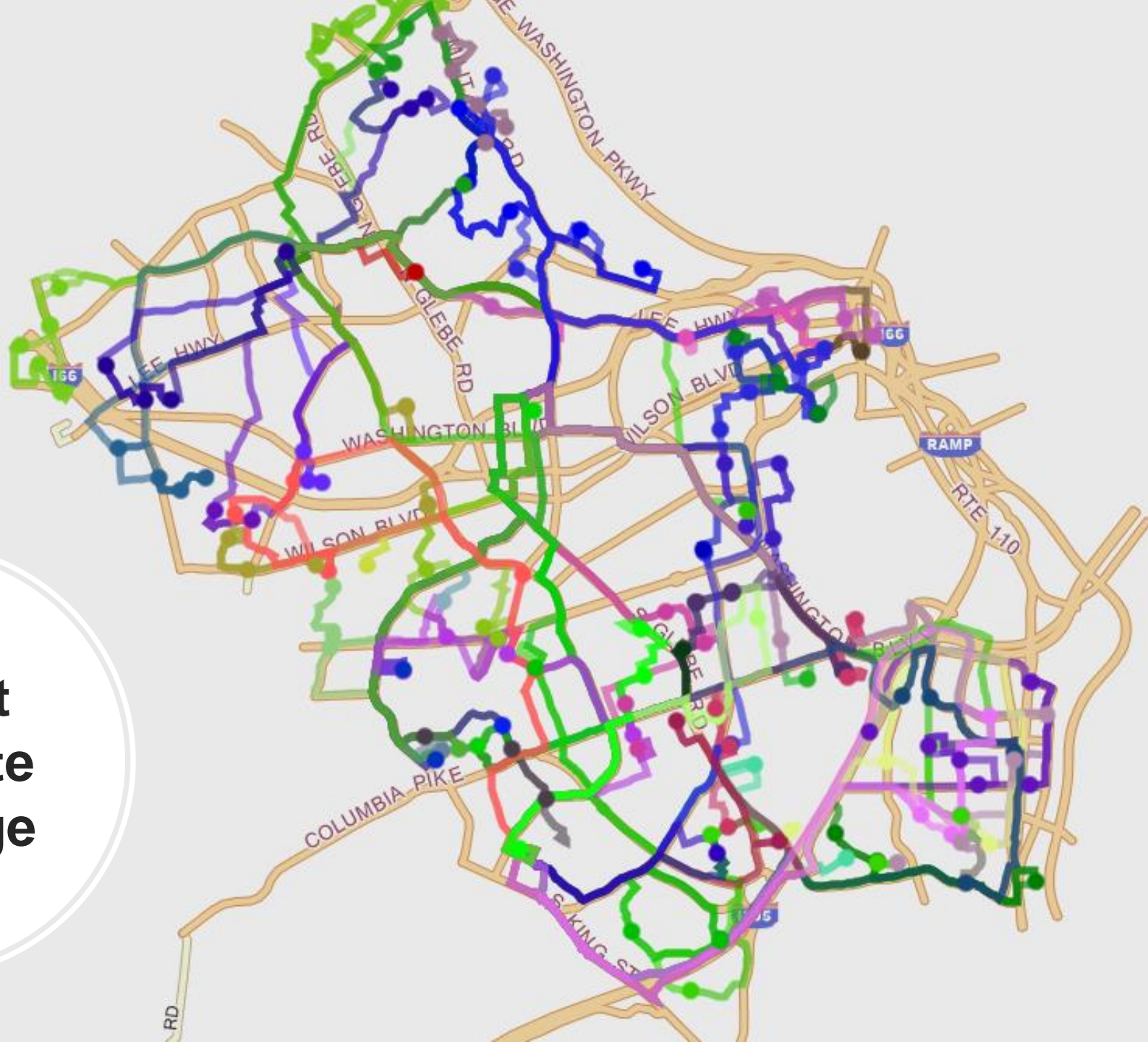
- **Fleet:** 189 Buses
 - 133 Gen Ed
 - 56 SPED
- **Routes:** 154
 - serving 407 runs for ES, MS & HS and SPED
- **Stops:** ~2,500 stops
- **Ridership (Gen Ed):**
 - Eligible ~ 15,500
 - Actual ~ 5,500

- **ART**

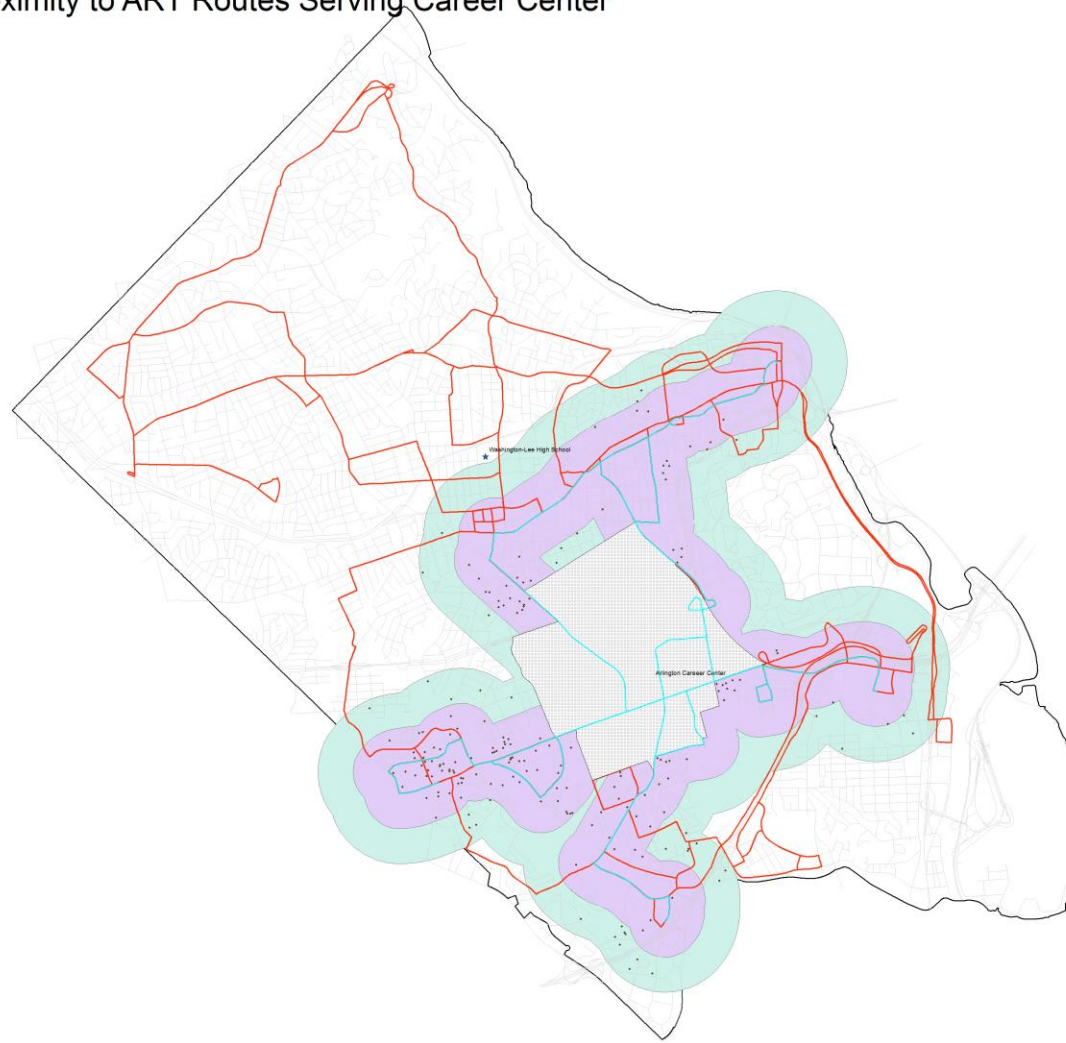
- **Fleet:** 68 buses (46 for peak service; 19 spares)
- **Routes:** 15
- **Stops:** ~650 stops (about 1,100 with Metrobus)
- **Span of service** = *varies by route, but generally around 5:30 am to midnight*
- **Avg Weekday Frequency** = 10-30 mins(peak); 15 - 60 (off peak)



**Current
HS Route
Coverage**



Potential Rider Proximity to ART Routes Serving Career Center





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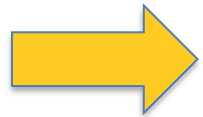
Special Ed Transportation



Ridership

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****2017-2018 School Year data**

Areas to address

- Coordination b/t SPED Office and Transportation
- Obtaining Opt-out information
- Communications

Internal Audit Project Recommendations

- Compare new school construction costs in Arlington to comparable school districts.
 - Review **Student Transportation required by IEP or Federal law**. Analyze current costs and research opportunities to increase resource efficiency and effectiveness.
 - Review **Financial Controls at the Schools** over onsite receipt collection, deposit processing and check disbursement.
 - **Activity Fees**: Analyze fees required to participate in school activities & identify all funding sources.
-



TDM Program



TDM Areas to address



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- Financial contribution
 - Eligibility
 - Program Duration
 - Monitoring
 - Sustainability
-