

## Silver Line Phase II Reston-Herndon Area Bus Service Review



Fairfax County Department of Transportation

Community Outreach June 2020





# **Planning Process**







# Outreach





### **Market Survey**

- Fall 2018: 2,600 responses
- Gathered data on why residents do not ride buses
- Used to determine what measures could be used to attract nonriders and reconnect with lapsed riders

### **Onboard Survey**

- Spring Summer 2019: 2,550 responses
- Collected information on passengers' origins, destinations, preferences, and demographic characteristics
- Used for planning to increase ridership and improve the customer experience

### **Online Survey and Public Meetings**

- Conducted two rounds of online surveys: 1,400 responses
- Conducted three rounds of public meetings and outreach





County of Fairfax, Virginia

### What We Heard: Service Improvements







## Service Alternatives

Three service alternatives are<br/>being studied:Alternative 1 – Existing Service Plus<br/>Alternative 2 – Streamlined Service<br/>Alternative 3 – Area Wide Transformation

All alternatives would be initially developed as budget neutral, with no increase (+/-2%) in total revenue hours.



Develop Preferred Service Plan Includes elements of all alternatives Micro-transit options (Alternative Transit Study) Develop optional additional service recommendations





## **Alternative Comparison**















## Alternative Comparison

Criteria	Existing	Alternative 1	Alternative 2	Alternative 3	Preferred Plan
Transit Propensity Population (higher is better)	72,800	93,200	87,500	88,400	89,700
Frequency Factor (2.5 max; higher is better)	0.99	1.03	0.86	1.36	1.43
Span of Service Factor (2.5 max; higher is better)	1.87	1.71	2.00	1.78	1.93
Average Travel Time (in minutes; lower is better)	57	56	54	46	49
Key Locations (higher is better)	57	65	64	63	68





### County of Fairfax, Virginia

## Silver Line Phase Two Preferred Plan: Summary

- New connections and routes
  - Chantilly / Centreville to Dulles Corridor
  - Northern Virginia Community College (Loudoun Campus)
  - Sterling to Herndon
- Uses elements from all three alternatives
- Improves average frequency from 30 to 20 minutes
- Improves span of service
- Creates more direct connections
- Shortens travel time
- Increases access to transit dependent population and employment
- Maintains bus stop coverage at most locations
- Provides access to middle and high schools
- Budget neutral



This map can be found on the following Fairfax Connector web site:

https://www.fairfaxcounty.gov/connector/sites/connector/files/assets/documents/pdf /reston-herndon-review/preferred-plan-peak.pdf





### FAST FACTS: EXISTING SERVICE VS. PREFERRED PLAN



#### TRAVEL TIME BETWEEN KEY ORIGINS AND DESTINATIONS

ter-		EXISTING SERVICE	PREFERRED PLAN	PERCENT CHANGE
pho	Average Travel Time	57.3 Minutes	49.4 Minutes	-14%

#### POPULATION AND HOUSEHOLDS SERVED WITHIN A QUARTER-MILE OF SYSTEM

		EXISTING SERVICE	PREFERRED PLAN	PERCENT CHANGE
	Population	157,400	189,600	+20%
id <b>m</b> hi	Minority Population	79,000	98,200	+24%
<b></b>	Households	59,300	70,100	+18%
	Low-Income Households (At or Below \$50,000)	9,100	11,200	+23%

#### POPULATION AND JOBS SERVED WITHIN A QUARTER-MILE OF PEAK SERVICE

	FREQUENCY	EXISTING	EXISTING SERVICE		PREFERRED PLAN		PERCENT CHANGE	
		Population	Jobs	Population	Jobs	Population	Jobs	
	0-20 Minutes	71,900	65,600	114,100	96,700	+59%	+47%	
	21-30 Minutes	71,600	79,900	113,800	124,300	+59%	+56%	
	31+ Minutes	126,000	139,000	54,300	74,800	-57%	-46%	







# **Transit Parameters**

Weekdays

- Morning peak hours: 5:00 to 9:00 A.M.
- Afternoon peak hours: 3:00 to 7:00 P.M.
- Peak frequency is 15 to 30 minutes
- Off-peak frequency is 20 to 60 minutes

Weekends

- Hours of service 6:00 A.M. to 9:00 P.M.
- Frequency is 20 to 60 minutes





# Sample Route Sheets







# **Route Profiles Summary**

Route profiles provide detailed information on each route:

- Map
- Days of service
- Hours of service
- Frequency
- Key locations served
- Schools and hospitals served
- Transfer opportunities at Metrorail and transit stations

Detailed information on the recommended routes is provided at the following link:

<u>https://www.fairfaxcounty.gov/connector/reston-herndon-bus-service-review-</u> <u>survey-preferred</u>





#### **ROUTE 553:** RESTON TOWN CENTER METRO TO HERNDON HIGH SCHOOL



	CLASS	Feeder			
EW	DIRECTIONS	Northbound/Southbound			
OVERVIE	VIA	Reston South Park & Ride, Viking Dr, Herndon Metro (South), Herndon Senior Center, Herndon Harbor House, Kingstream Dr			
	TRANSFERS AVAILABLE	Silver Line, 552, 574, 605, 901, 921, 924, 950, 951, 952, 954, RIBS1, RIBS2, RIBS3, RIBS4, RIBS5			
	IMPROVEMENT(S)	Provide New Connections			

			WEEKDAY		SATURDAY	SUNDAY
OF SERVICE	D ROUTE	SERVICE HOURS	6:00AM - 9:00AM   4:00PM - 7:00PM		No Service	No Service
LEVEL OF	PROPOSED   553	FREQUENCY	PEAK	20 mins	- No Service	No Service
		PREQUENCI	OFF-PEAK	No Service	NO SERVICE	







### ROUTE 921: HERNDON CIRCULATOR









### County of Fairfax, Virginia

#### **ROUTE 950:** RESTON TOWN CENTER METRO TO HERNDON METRO



OVERVIEW	CLASS	Local
	DIRECTIONS	Westbound/Eastbound
	VIA	Worldgate, Elden St, Reston Hospital Center
	TRANSFERS AVAILABLE	Silver Line, 552, 553, 558, 574, 605, 901, 921, 924, 951, 952, 954, 983, RIBS1, RIBS2, RIBS3, RIBS4, RIBS5
	IMPROVEMENT(S)	Increase Frequency

			WEEKDAY		SATURDAY	SUNDAY	
LEVEL OF SERVICE	D ROUTE	SERVICE HOURS	5:00AM - 1:00AM		6:00AM - 1:00AM	6:00AM - 1:00AM	
LEVEL	PROPOSED 950	ç I	PEAK	15 mins	20 mine	20 mine	
		PREQUENCY	OFF-PEAK	20 mins	20 mins	30 mins	





Department of Transportation



#### **ROUTE 952:** WIEHLE-RESTON EAST METRO TO PARK CENTER RD



OVERVIEW	CLASS	Feeder			
	DIRECTIONS	Westbound/Eastbound			
	VIA	Reston Town Center Metro (North), Herndon Metro (North), Worldgate, Innovation Center Metro (South), Dulles Discovery			
	TRANSFERS AVAILABLE	Silver Line, 507, 552, 553, 558, 574, 605, 901, 921, 924, 950, 951, 954, 983, RIBS1, RIBS2, RIBS3, RIBS4, RIBS5			
	IMPROVEMENT(S)	Increase Frequency, Provide New Connections			

			WEEKDAY		SATURDAY	SUNDAY
EL OF	) ROUTE 2	SERVICE HOURS	6:00AM - 9:00AM   4:00PM - 7:00PM		No Service	No Service
	PROPOSED 952	FREQUENCY	PEAK	20 mins	No Service	No Service
			OFF-PEAK	No Service		







#### **RIBS2:** RESTON TOWN CENTER TRANSIT STATION TO HERNDON METRO



OVERVIEW	CLASS	RIBS
	DIRECTIONS	Westbound/Eastbound
	VIA	Wiehle-Reston East Metro (North), South Lakes Village Center, South Lakes HS, Hunters Woods
	TRANSFERS AVAILABLE	Silver Line, 507, 552, 553, 558, 574, 605, 901, 921, 924, 950, 951, 952, 954, RIBS1, RIBS3, RIBS4, RIBS5
	IMPROVEMENT(S)	Increase Frequency, Provide New Connections

			WEEKDAY		SATURDAY	SUNDAY	
LEVEL OF SERVICE	D ROUTE S2	SERVICE HOURS	5:00AM - 12:00AM		6:00AM - 12:00AM	6:00AM - 12:00AM	
LEVEL	PROPOSE RIB		PEAK	20 mins	- 30 mins	20 mins	
		PREQUENCY	OFF-PEAK	30 mins	SUMINS	30 mins	







## **Preferred Plan Route Details**

Route	Peak Frequency (minutes)	Off-Peak Frequency (minutes)	Weekend Service	Weekday Hours of Service	Improvement
507	25	25	No	5:00 A.M. to 7:00 P.M.	No major change
552	20	-	No	Peak hours	Increase connectivity
553	20	-	No	Peak hours	Increase connectivity
558	20	60	Yes	5:00 A.M. to 9:00 P.M.	Increase connectivity
574	30	45	Yes	5:00 A.M. to 9:00 P.M.	Shorten travel time
599	25	-	No	Peak hours	No major change
605	30	45	Yes	5:00 A.M. to 9:00 P.M.	Increase frequency and shorten travel time
615	30	45	Yes	7:00 A.M. to 9:30 P.M.	Replace portion of 605





## Preferred Plan Route Details

Route	Peak Frequency (minutes)	Off-Peak Frequency (minutes)	Weekend Service	Weekday Span of Service	Improvement
901	30	60	Yes	5:00 A.M. to 9:00 P.M.	New route, increase connectivity
921	40	40	Yes	7:00 A.M. to 7:00 P.M.	New route, improve linkage
924	20	60	Yes	5:00 A.M. to 10:00 P.M.	Extension
950	15	20	Yes	5:00 A.M. to 1:00 A.M.	Increase frequency
951	20	-	No	Peak hours	Extension, increase frequency
952	20	-	No	Peak hours	Increase connectivity and frequency
954	30	60	Yes	5:00 A.M. to 9:00 P.M.	New route, increase connectivity
983	30	45	Yes	7:00 A.M. to 7:00 P.M.	Increase connectivity





## Preferred Plan Route Details

Route	Peak Frequency (minutes)	Off-Peak Frequency (minutes)	Weekend Service	Weekday Span of Service	Improvement
RIBS 1 (501)	25	25	Yes	5:00 A.M. to 12:00 A.M.	Increase frequency
RIBS 2 (502)	20	30	Yes	5:00 A.M. to 12:00 A.M.	Increase connectivity and frequency
RIBS 3 (503)	25	25	Yes	5:00 A.M. to 12:00 A.M.	Increase frequency
RIBS 4 (504)	20	40	Yes	5:00 A.M. to 11:00 P.M.	Increase connectivity and frequency
RIBS 5 (505)	45	45	Yes	5:00 A.M. to 11:00 P.M.	Increase connectivity

Based on the comments received online, the following routes are under further evaluation:

557	40	-	Νο	Peak hours	Increase connectivity
981	-	60	Yes	6:00 P.M. to 11:00 P.M.	Increase connectivity





# **Next Steps**







## Providing Feedback

- Public comments due by 5 P.M. on Friday, July 17, 2020
- Ways to provide comments:
  - Take the on-line survey at:
    - <u>https://www.fairfaxcounty.gov/connector/reston-herndon-bus-</u> service-review-survey-preferred
  - E-mail <u>fairfaxconnector@fairfaxcounty.gov</u>
  - Call 703-339-7200, TTY 703-339-1608

