AIRPORT ROAD EXTENSION, OLD LANDING ROAD TO SR24
&
OLD LANDING ROAD AND WARRINGTON ROAD
INTERSECTION IMPROVEMENTS

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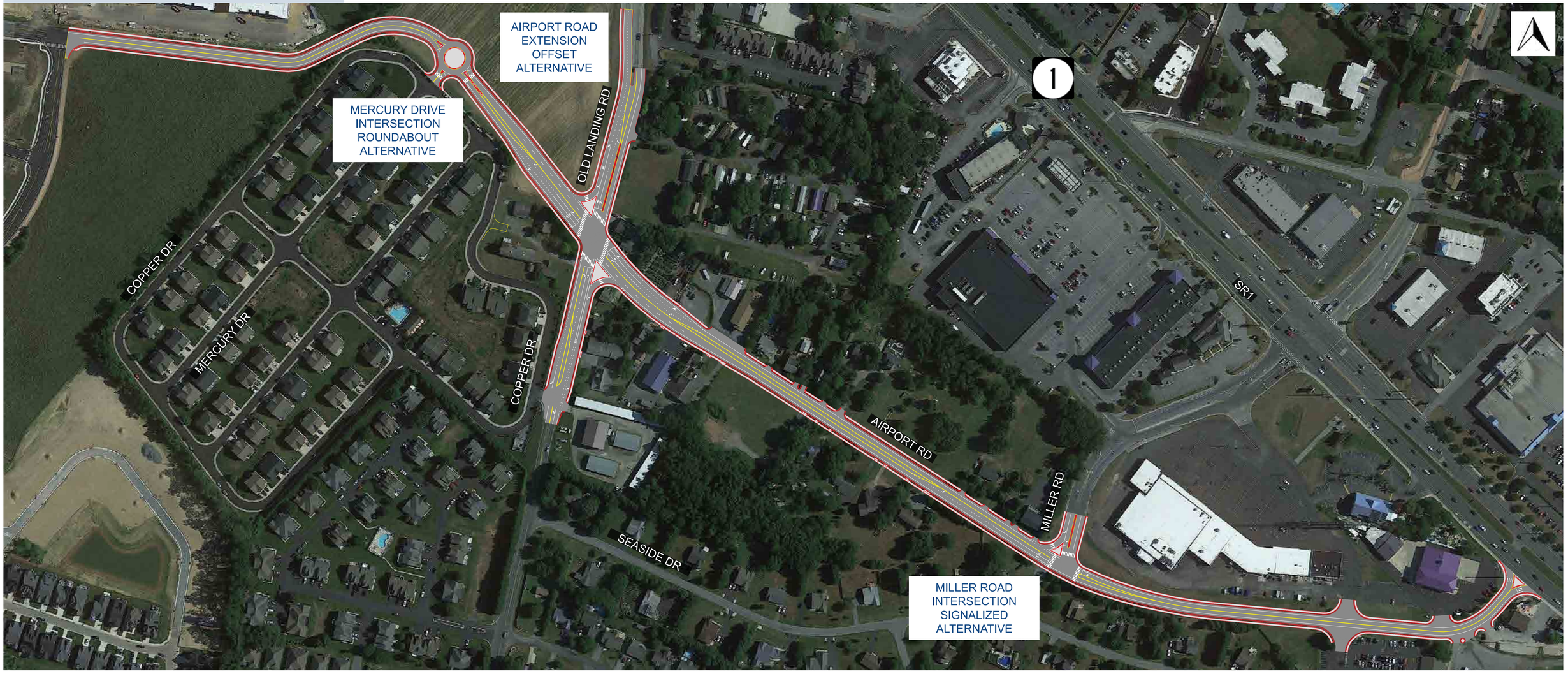
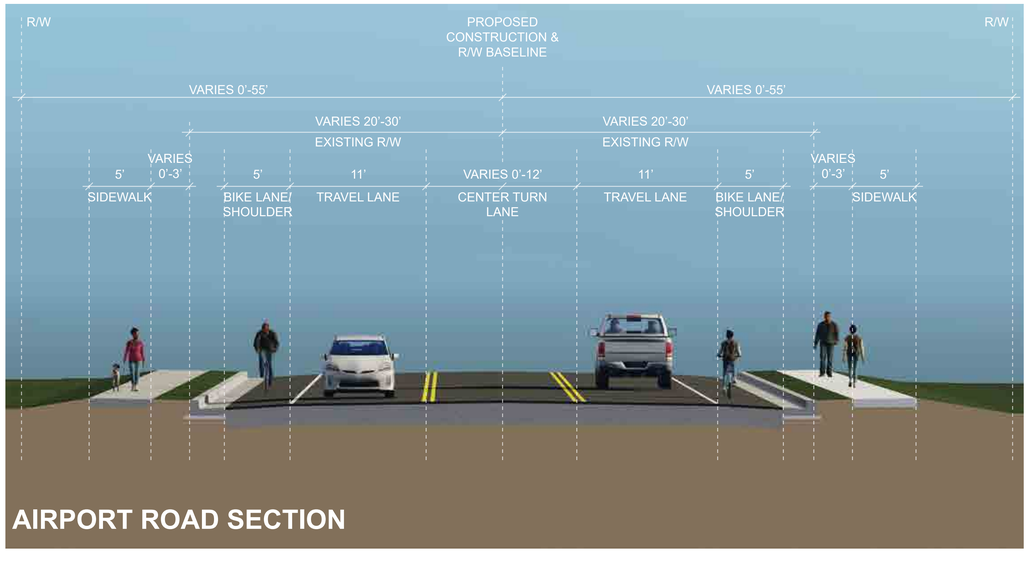
April 4, 2023

AIRPORT ROAD EXTENSION, OLD LANDING ROAD TO SR24

ALTERNATIVE 1





AIRPORT ROAD SECTION

LEGEND

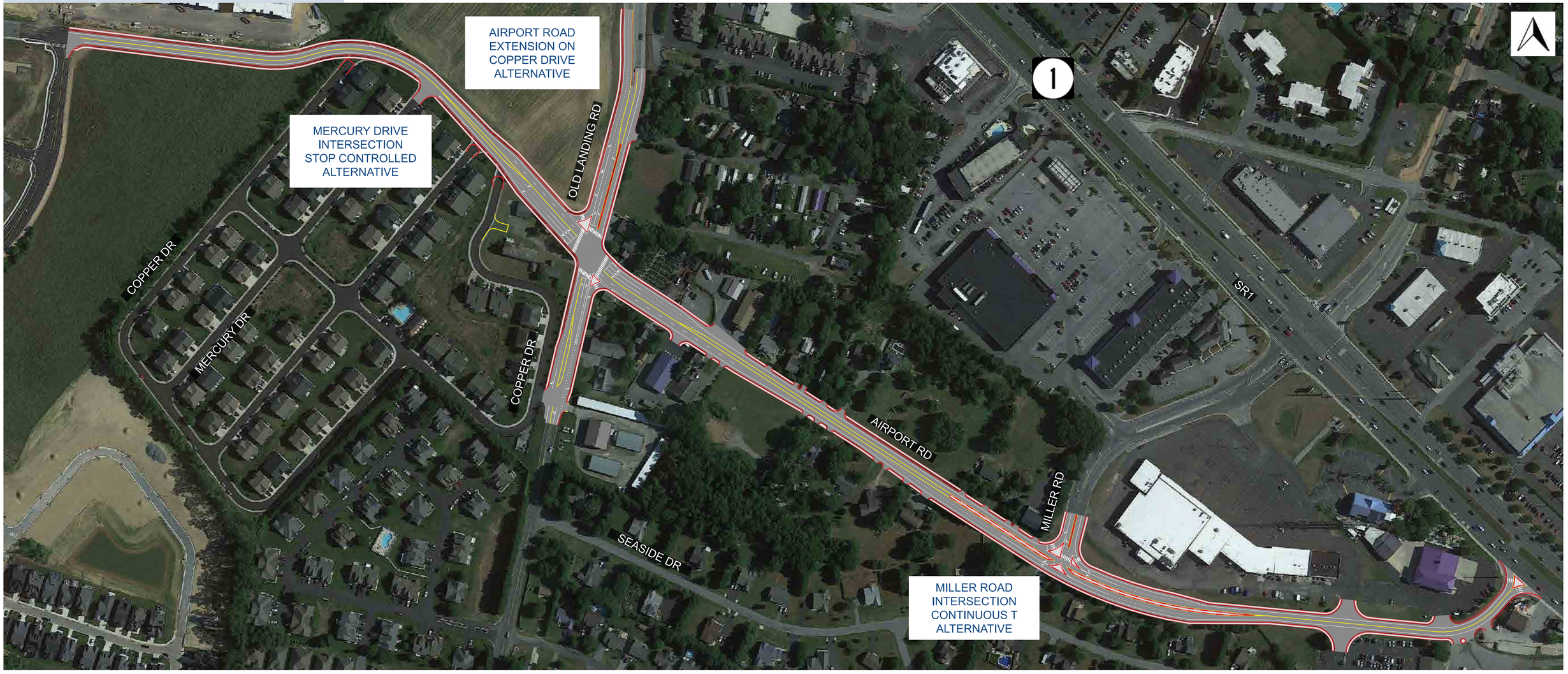
- Curb and Gutter
- Pavement
- Sidewalk

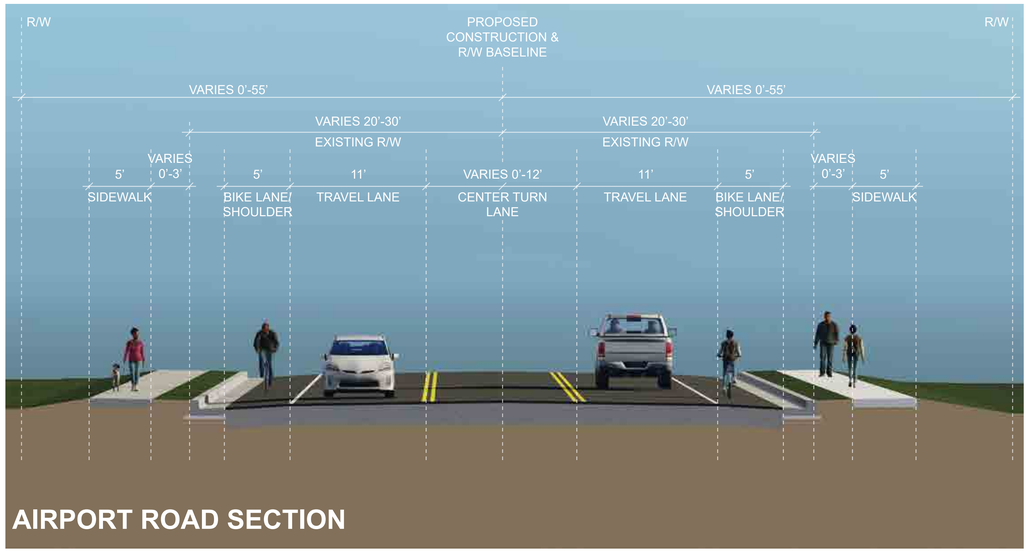
DELAWARE DEPARTMENT OF TRANSPORTATION

AECOM

AIRPORT ROAD EXTENSION, OLD LANDING ROAD TO SR24

ALTERNATIVE 2





AIRPORT ROAD SECTION

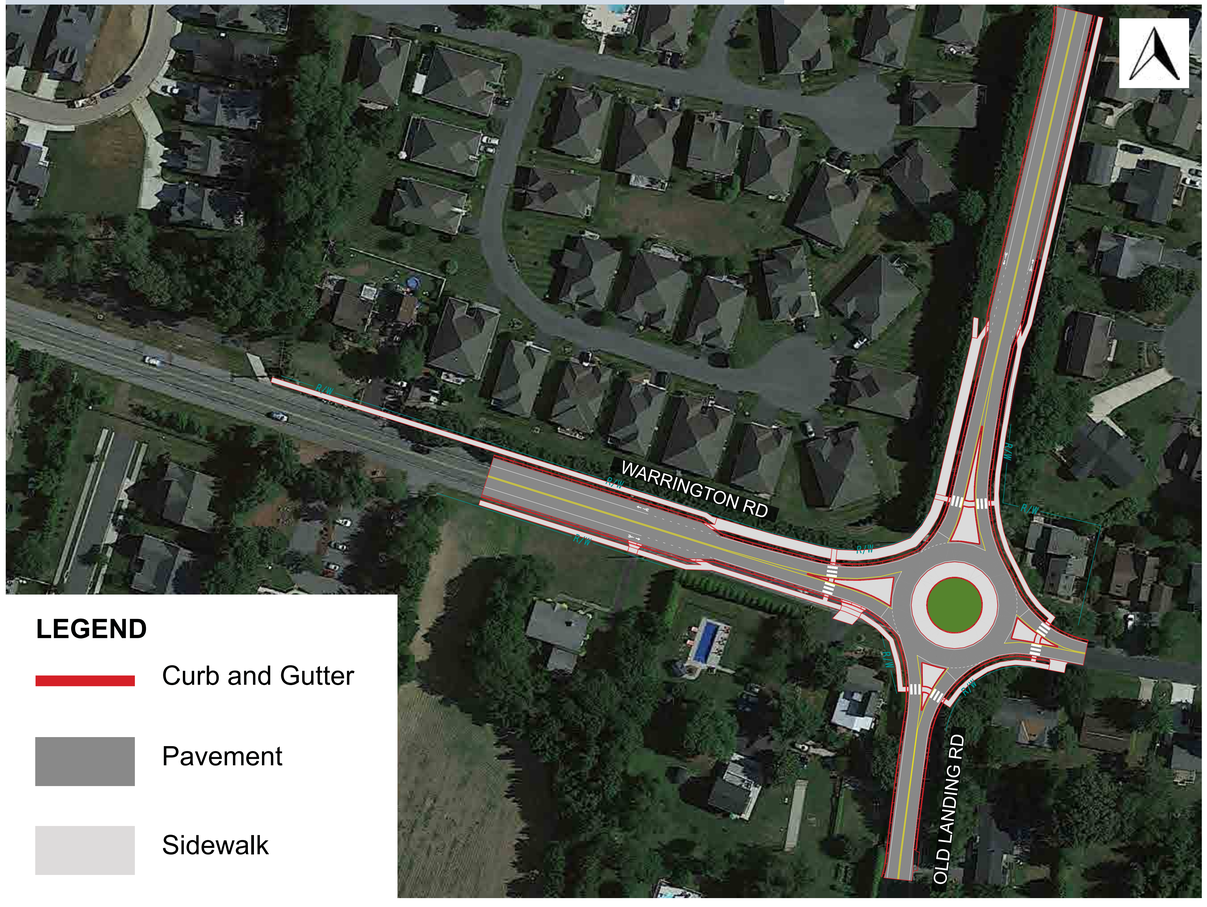
LEGEND

- Curb and Gutter
- Pavement
- Sidewalk

AECOM

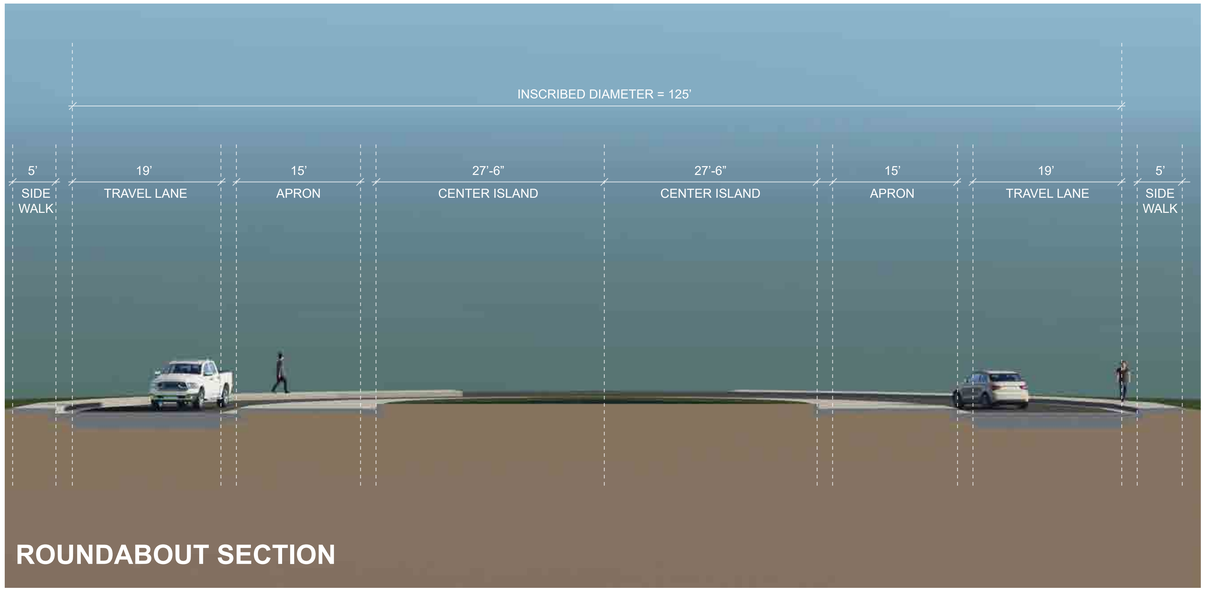
OLD LANDING ROAD AND WARRINGTON ROAD INTERSECTION IMPROVEMENTS

ROUNDABOUT ALTERNATIVE



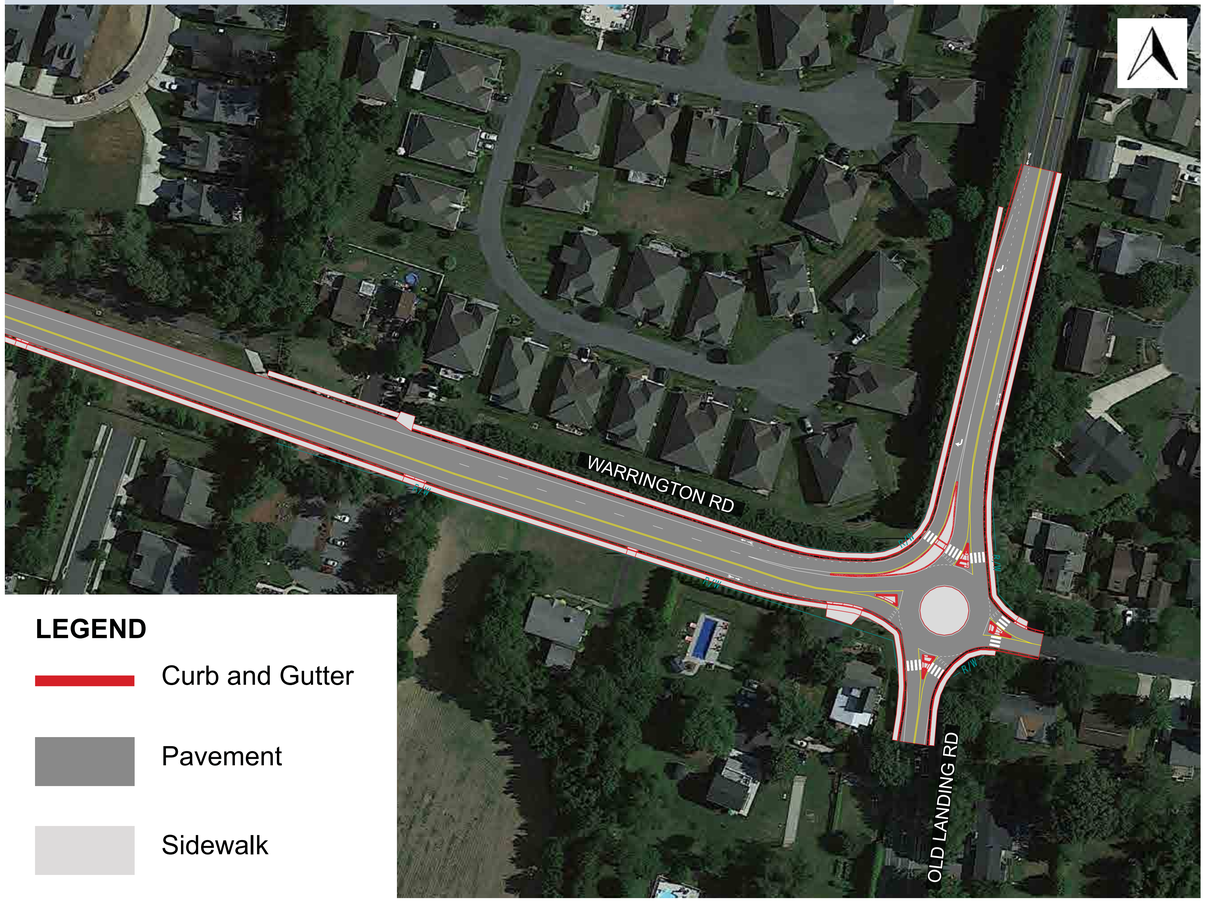
LEGEND

- Curb and Gutter
- Pavement
- Sidewalk



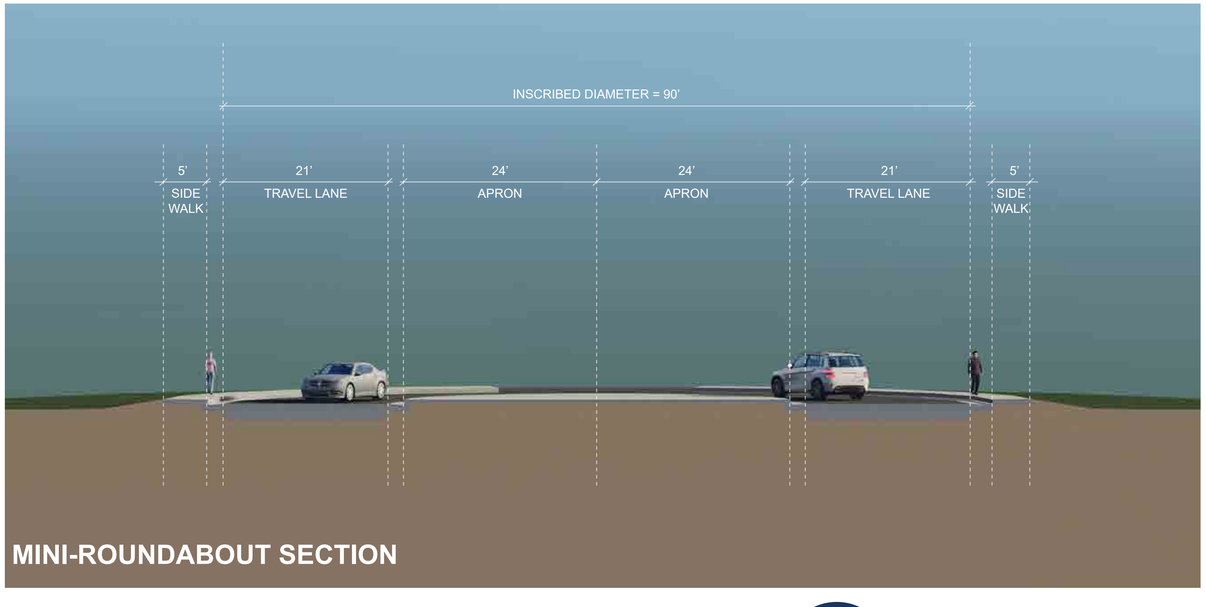
ROUNDABOUT SECTION

MINI-ROUNDABOUT ALTERNATIVE



LEGEND

- Curb and Gutter
- Pavement
- Sidewalk



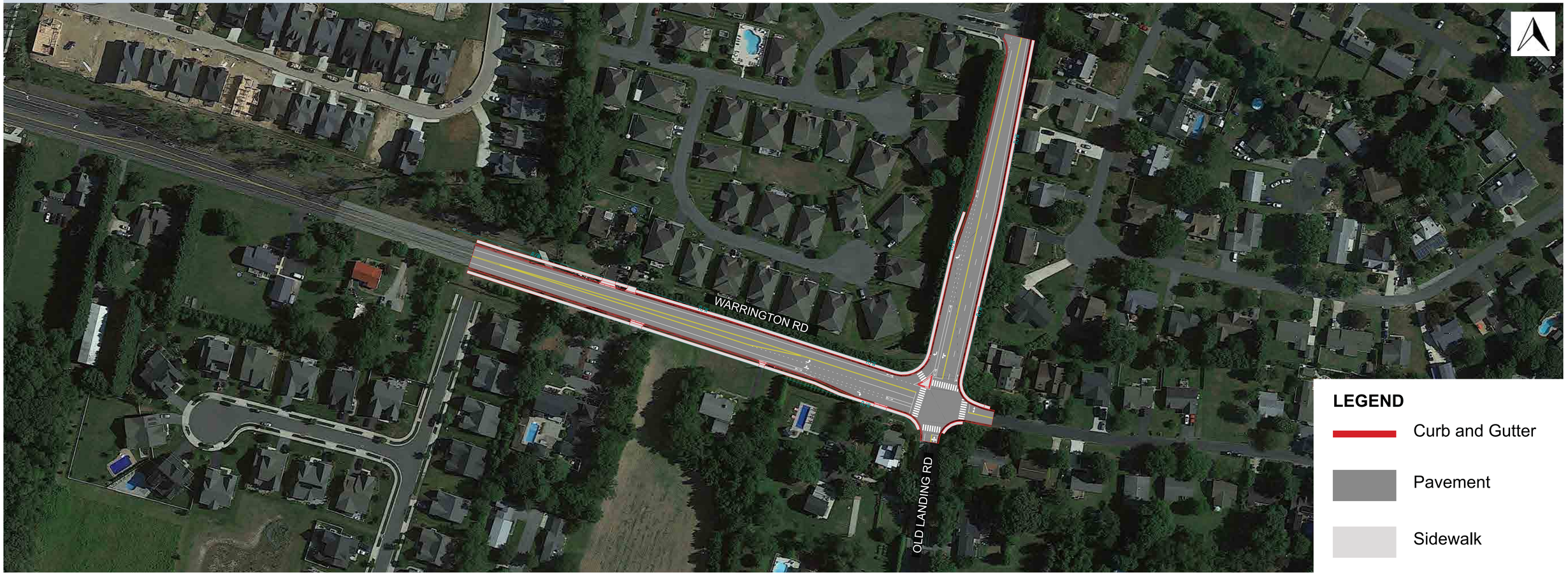
MINI-ROUNDABOUT SECTION

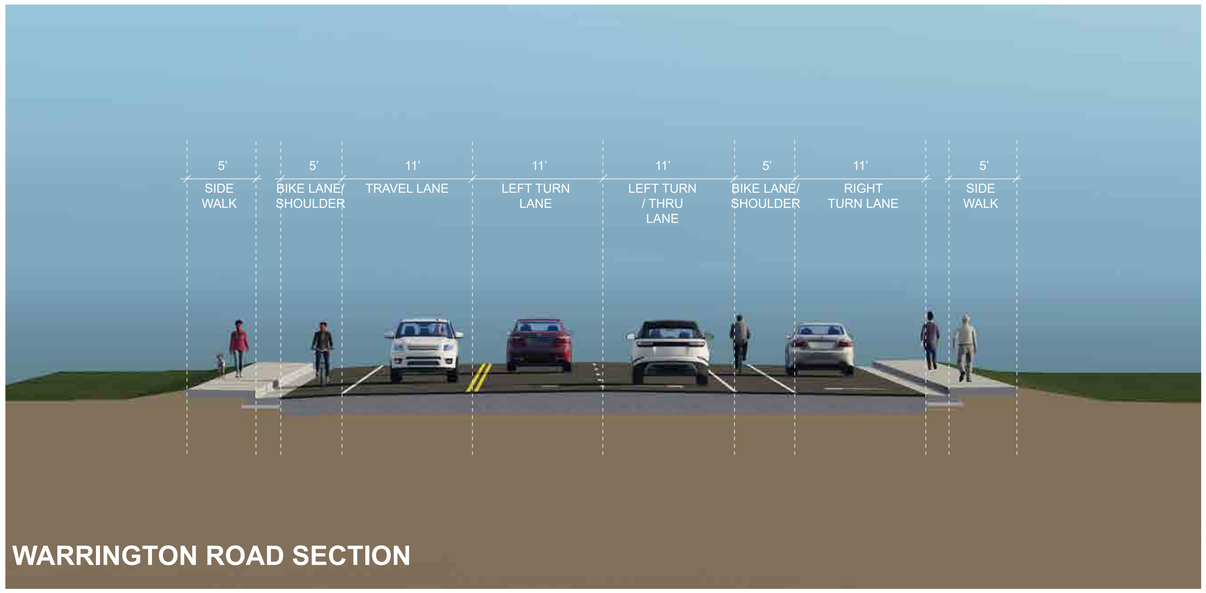
DELAWARE DEPARTMENT OF TRANSPORTATION

AECOM

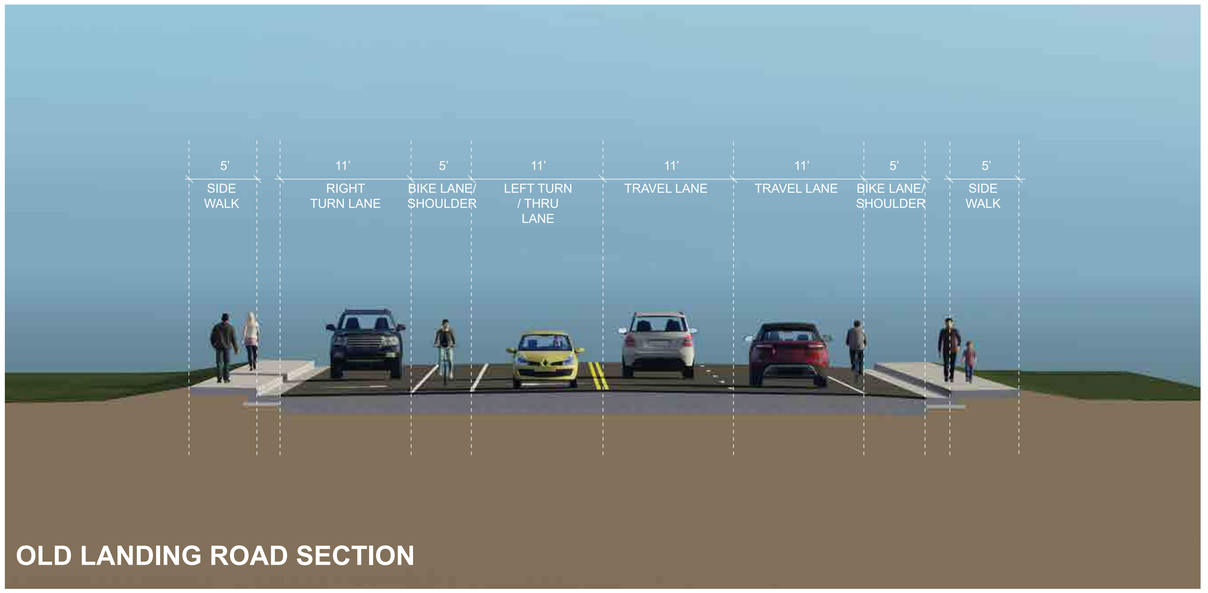
OLD LANDING ROAD AND WARRINGTON ROAD INTERSECTION IMPROVEMENTS

TRAFFIC SIGNAL ALTERNATIVE





WARRINGTON ROAD SECTION

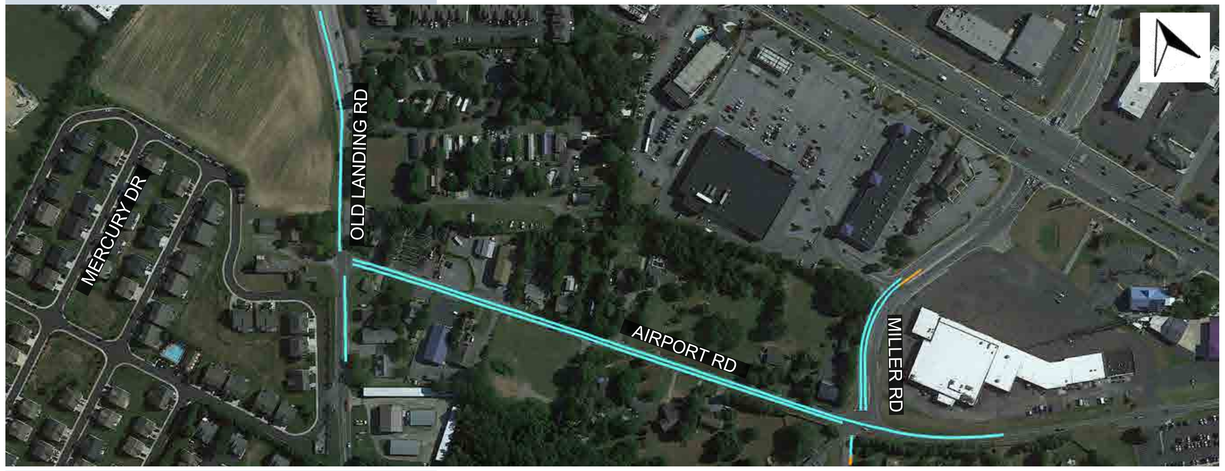


OLD LANDING ROAD SECTION

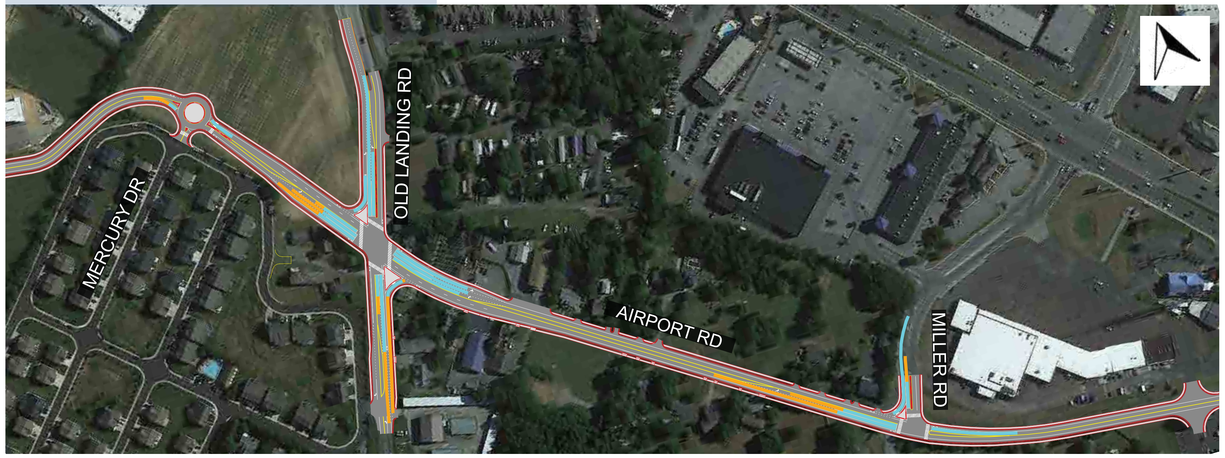
AECOM

AIRPORT ROAD EXTENSION, OLD LANDING ROAD TO SR24 (DESIGN YEAR 2045)

NO-BUILD



ALTERNATIVE 1



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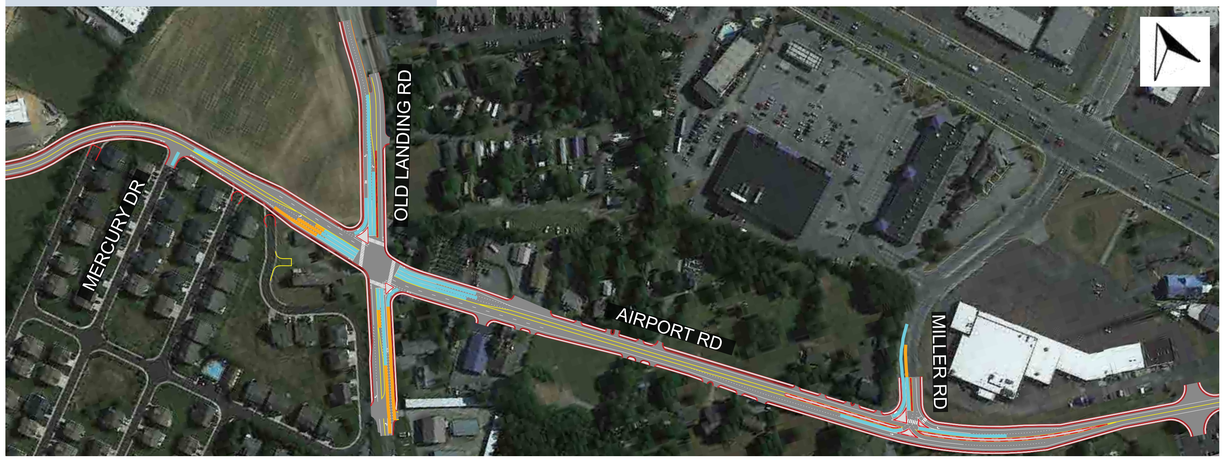


LEGEND

Queue Length AM Peak Hour

Queue Length PM Peak Hour

AVERAGE VEHICLE DELAY (IN SECONDS)

Intersection	Movement	No-Build		Alternative 1		Alternative 2	
		AM Peak Hour	PM Peak Hour	AM Peak Hour	PM Peak Hour	AM Peak Hour	PM Peak Hour
Airport Rd & Old Landing Rd*	Airport Rd EB			44.1	39.8		
	Airport Rd WB	22.6	246.2	35.4	42.4		
	Old Landing Rd NB	FREE	FREE	19.5	27.9		
	Old Landing Rd SB	43.9	578.8	15.2	33.6		
Airport Rd & Miller Rd**	Airport Rd EB	8.8	3.9	16.3	15.4	40.3	22.4
	Airport Rd WB	0.2	0.1	6.8	33.1	47.9	42.3
	Miller Rd SB	362.5	27.8	26.9	14.0	29.9	13.6
Airport Rd & Mercury Dr	Airport Rd EB			9.0	5.6	0.0	0.0
	Airport Rd WB			6.0	7.9	9.3	8.2
	Mercury Dr NB			6.1	4.4	15.1	10.9

*Analysis of offset intersection (no roadway realignment) at Airport Rd & Old Landing Rd resulted in significant intersection failure or significant right-of-way takes to achieve acceptable delays

**Analysis of single lane roundabout at Airport Rd & Miller Rd resulted in intersection failure

OLD LANDING RD & WARRINGTON RD INTERSECTION IMPROVEMENTS (DESIGN YEAR 2045)

NO-BUILD

AVERAGE VEHICLE DELAY (IN SECONDS)

Movement	No-Build		Alternative 1 Roundabout		Alternative 2 Mini Roundabout		Alternative 3 Traffic Signal 1		Alternative 4 Traffic Signal 2	
	AM Peak Hour	PM Peak Hour	AM Peak Hour	PM Peak Hour	AM Peak Hour	PM Peak Hour	AM Peak Hour	PM Peak Hour	AM Peak Hour	PM Peak Hour
Warrington Rd EB Left	151.0	80.1	9.8	14.7	9.8	14.7	45.1	36.1	66.8	110.4
Warrington Rd EB Thru	11.3	16.6							9.2	13.0
Warrington Rd EB Right							0.0	48.5	9.7	14.4
Strawberry Way WB	12.9	15.6	9.0	6.6	9.0	6.6	54.8	55.1	32.7	32.3
Old Landing Rd NB	63.7	29.0	18.1	9.1	18.1	9.1	13.8	20.2	71.6	40.1
Old Landing Rd SB Right	21.1	440.3	5.8	26.8	4.6	10.7	0.0	32.3	26.0	108.4
Old Landing Rd SB Thru/Left					4.1	5.7	9.4	13.6	23.3	21.5

LEGEND

Queue Length AM Peak Hour

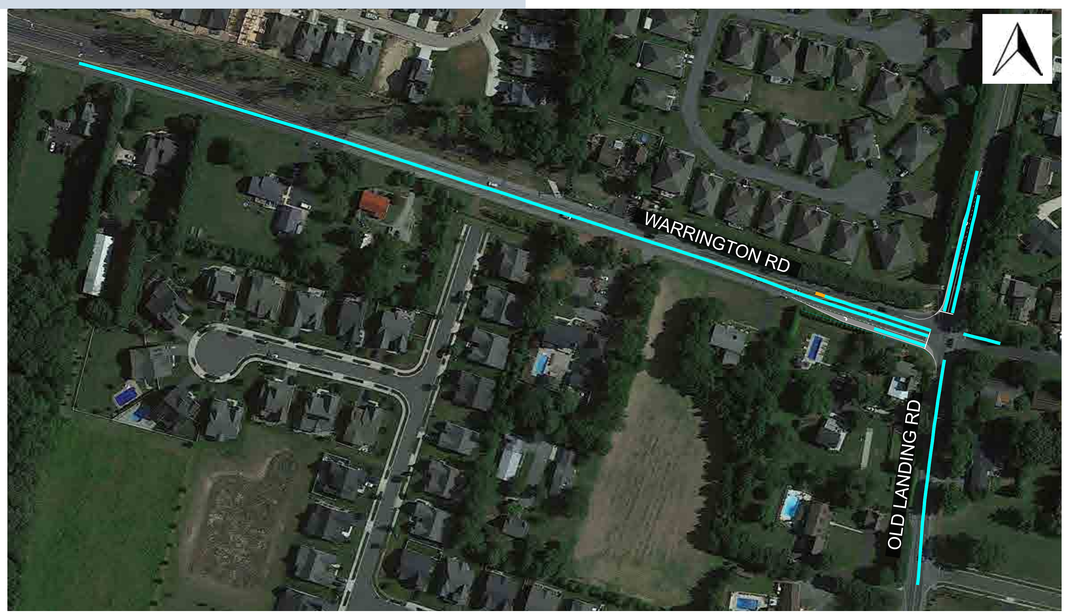
Queue Length PM Peak Hour

ALTERNATIVE 1: ROUNDABOUT

ALTERNATIVE 2: MINI-ROUNDABOUT

ALTERNATIVE 3: TRAFFIC SIGNAL

ALTERNATIVE 4: MODIFIED TRAFFIC SIGNAL*



Airport Rd Ext project reduces Warrington Rd peak hour volumes by 40 - 70 vehicles (Henlopen TID)

* Alternative 4 matches the existing intersection configuration with the addition of a right-turn lane on southbound Old Landing Road and a separate right-turn lane on eastbound Warrington Road. This has been evaluated per recommendations made by the Old Landing Road Coalition.

AECOM

Thank you!

Please return the Comment Forms by May 2, 2023.

Stay updated on the project progress by going to:
deldot.gov/projects

April 4, 2023