



MEDIAN BARRIER

Description: After a string of cross-median crashes on limited access highways, DelDOT performed a statewide median barrier assessment for controlled-access highways. DelDOT initiated an effort to install median barrier as a strategy to reduce roadway departures outlined in the Strategic Highway Safety plan. DelDOT currently has installed 95 miles of median barrier on the 119 mile limited access highway network. An additional 24 miles of limited access highways need median barrier coverage. This SOGR sheet is intended to track DelDOT's progress toward achieving 100% coverage of limited access highway medians.

Annual Budget: The annual budget for median barrier installation is about \$2 million statewide. Repairs and general maintenance of the systems are managed by the Division of Maintenance and Operations, and barrier installations are typically done as standalone projects administered by the Division of Transportation Solutions. The average cost for a high-tension cable barrier system is \$800,000 per mile.

Unit cost comparison of barrier types:

Barrier Type	Cost Ratio
Concrete	15
Steel W-beam	6
HTCB	1

Asset Valuation: To be evaluated.

STATE OF GOOD REPAIR

Currently, DelDOT defines a State of Good Repair for Median Barriers as coverage of the median of limited access highways (i.e., if Median Barrier is present, the section is considered to be in a State of Good Repair).

TARGETS AND MEASURES

Measures:

- % of Limited Access Highways with Median Barrier
- % of Limited Access Highways without Median Barrier

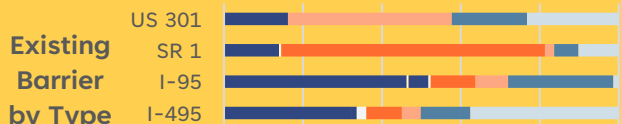
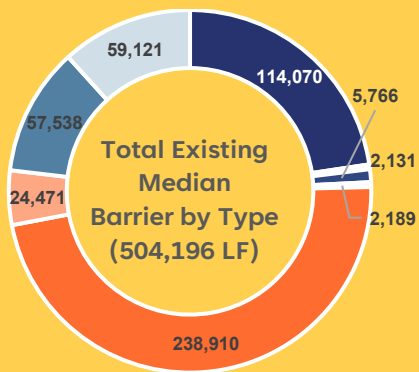
Targets:

- 100% of limited access highway with Median Barrier
- i.e., 0 Linear Feet of Gaps in Median Barrier

INVENTORY & CONDITION

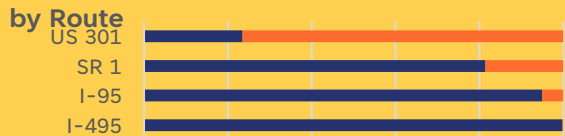
The inventory of existing median barrier includes approximately 95 miles (over 504,000 linear feet) of different barrier types. The first set of charts shows the existing median barrier inventory broken out by barrier type and the limited access highway route where barrier is located. The second set of charts identifies the gaps in median barrier and the percentage of each limited access highway route that needs median barrier coverage. All distances are in linear feet.

0% 20% 40% 60% 80% 100%

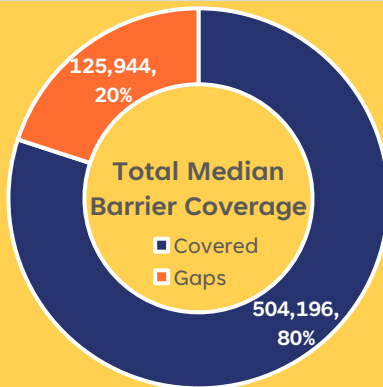


	I-495	I-95	SR 1	US 301
Concrete	17860	47524	46471	2215
Concrete + Type 1		542	1589	
Earth Berm	650	5116		
Earth Berm + Type 1	1359	614	217	
HTCB	4951	11655	222303	
Type 1 One Dir	2628	8492	7662	5689
Type 1 Two Dir	6896	27405	20622	2616
Type 3	20697	1389	33853	3181

Coverage 0% 20% 40% 60% 80% 100%



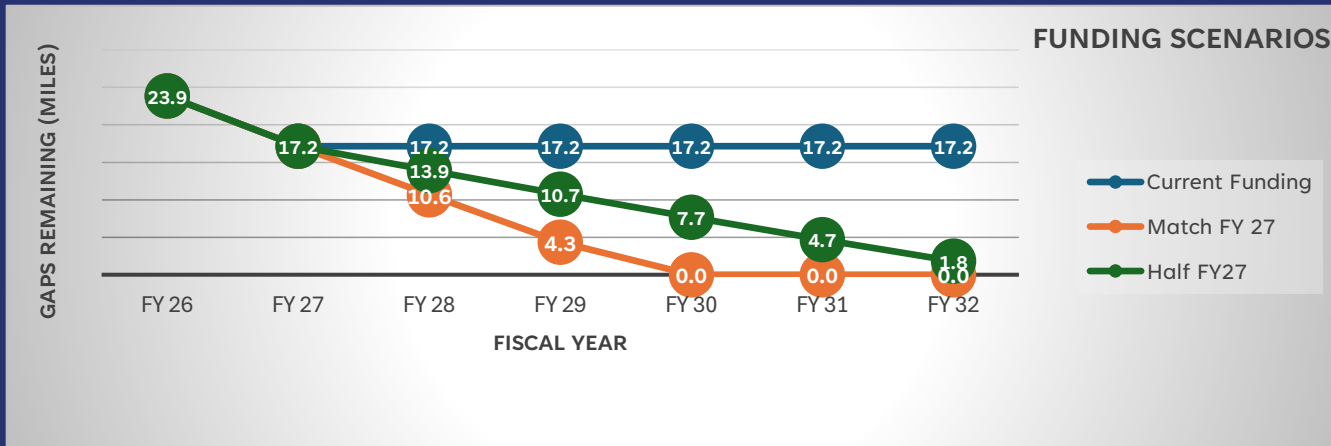
	I-495	I-95	SR 1	US 301
Covered	55,042	102,737	332,717	13,700
Gaps	95	5,356	75,837	44,656



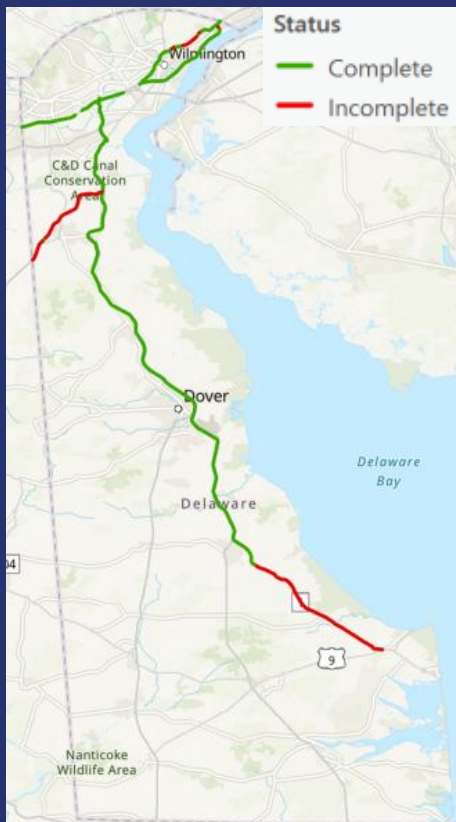


PERFORMANCE PROJECTIONS

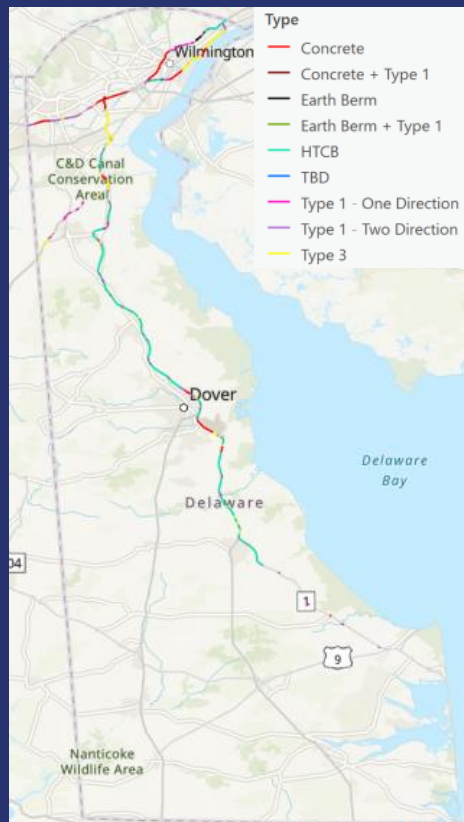
All limited access highway median barrier gaps can be filled by Fiscal Year 2030 if projects are completed on schedule and funding is available. Fiscal Year (FY) 2027 budgeted approximately \$4.7M for SR1 from SR30 to SR16. The current authorized funding for FY2028-FY2032 is \$0M.



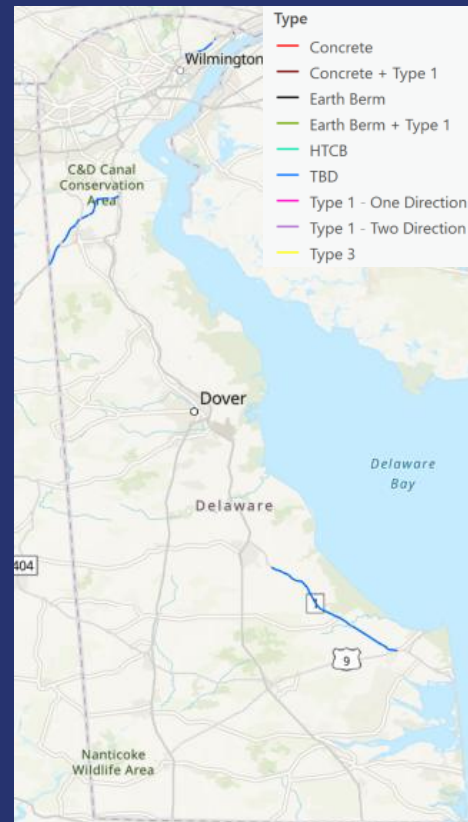
Median Barrier – Current Status



Complete Barrier – Existing Types



Barrier Gaps – Planned Types



POTENTIAL RISKS

Traffic Impact: Barriers reduce the risk of cross median crashes. Risks of these events increase when barriers are not in place.

Funding and Scheduling: Gaps will not be able to be filled without sufficient funding and projects being completed on time.