



Dense Wave Division Multiplexing Replacement

(P342504)

Category	General Government	Date Last Modified	12/29/25
SubCategory	Technology Services	Administering Agency	Technology Services
Planning Area	Countywide	Status	Final Design Stage

EXPENDITURE SCHEDULE (\$000s)

Cost Elements	Total	Thru FY25	Est FY26	Total 6 Years	FY 27	FY 28	FY 29	FY 30	FY 31	FY 32	Beyond 6 Years
Construction	2,221	2,096	125	-	-	-	-	-	-	-	-
TOTAL EXPENDITURES	2,221	2,096	125	-	-	-	-	-	-	-	-

FUNDING SCHEDULE (\$000s)

Funding Source	Total	Thru FY25	Est FY26	Total 6 Years	FY 27	FY 28	FY 29	FY 30	FY 31	FY 32	Beyond 6 Years
Contributions	121	121	-	-	-	-	-	-	-	-	-
Current Revenue: General	2,100	1,975	125	-	-	-	-	-	-	-	-
TOTAL FUNDING SOURCES	2,221	2,096	125	-	-	-	-	-	-	-	-

APPROPRIATION AND EXPENDITURE DATA (\$000s)

Appropriation FY 27 Request	-	Year First Appropriation	FY25
Appropriation FY 28 Request	-	Last FY's Cost Estimate	2,221
Cumulative Appropriation	2,221		
Expenditure / Encumbrances	2,221		
Unencumbered Balance	-		

PROJECT DESCRIPTION

The Dense-Wave-Division Multiplexing (DWDM) project supports the replacement of aging equipment that form the backbone of the County's FiberNet optical broadband network. The existing DWDM infrastructure has reached the end of its useful life and is nearing end-of-support from the manufacturer, increasing the risk of service disruptions and limiting the ability to scale or maintain the network.

ESTIMATED SCHEDULE

In FY25, TEBS initiated procurement and began phased replacement of DWDM equipment across all 20 FiberNet hub sites. Installation and integration activities will continue through FY26.

PROJECT JUSTIFICATION

The DWDM network is critical to County operations, supporting public safety communications, 911 center traffic, WSSC Water, Montgomery College, and other essential services. The urgency of this replacement has increased due to the sale of Garage 2 to United Therapeutics, which necessitates the relocation of a key FiberNet hub. United Therapeutics will contribute funding to cover the cost of replacing DWDM equipment currently located at Garage 2.

COORDINATION

Department of Technology and Enterprise Business Solutions (TEBS), Department of Transportation, Department of General Services.