Collegewide Central Plant and Distribution Systems

(P662001)

Category	Montgomery College	Date Last Modified	10/05/22
SubCategory	Higher Education	Administering Agency	Montgomery College
Planning Area	Countywide	Status	Preliminary Design Stage

EXPENDITURE SCHEDULE ($000s)

Cost Elements	Total	Thru FY22	Rem FY22	Total 6 Years	FY 23	FY 24	FY 25	FY 26	FY 27	FY 28	Beyond 6 Years
Planning, Design and Supervision	900	216	84	600	100	100	100	100	100	100	-
Construction	10,512	1,454	1,221	7,837	1,837	1,400	900	1,400	900	1,400	-
TOTAL EXPENDITURES	11,412	1,670	1,305	8,437	1,937	1,500	1,000	1,500	1,000	1,500	-

FUNDING SCHEDULE ($000s)

Funding Source	Total	Thru FY22	Rem FY22	Total 6 Years	FY 23	FY 24	FY 25	FY 26	FY 27	FY 28	Beyond 6 Years
G.O. Bonds	8,000	695	1,305	6,000	1,000	1,000	1,000	1,000	1,000	1,000	-
State Aid	3,412	975	-	2,437	937	500	-	500	-	500	-
TOTAL FUNDING SOURCES	11,412	1,670	1,305	8,437	1,937	1,500	1,000	1,500	1,000	1,500	-

APPROPRIATION AND EXPENDITURE DATA ($000s)

Appropriation FY 24 Request	1,500	Year First Appropriation	FY20
Cumulative Appropriation	4,912	Last FY's Cost Estimate	11,412
Expenditure / Encumbrances	1,685		
Unencumbered Balance	3,227		

PROJECT DESCRIPTION

This project provides for the design and construction of new and renovation and expansion of existing central heating and cooling plants on the College's three campuses as recommended in the College's campus utilities master plan (12/12, and 2/13). The plan for a campus central plant, and distribution systems was included in the campus facilities master plan update (6/18). The project includes installation of boilers and chillers with associated equipment, the provision of natural gas service, and the construction of a hot water and chilled water distribution piping system to new and existing campus buildings.

PROJECT JUSTIFICATION

This project implements the recommendations of the campus utilities master plan (12/12, and 2/13) and campus facilities master plan update (6/18). The campus' existing heating and cooling equipment is typically 20-30 years old and beyond its useful economic life. Due to the age of the equipment and increasing maintenance problems and costs, each campus is experiencing a significant increase in

mechanical system problems and heating/cooling outages. Based on a life cycle cost analysis, the installation of a central heating/cooling plant offers significant equipment replacement, energy and maintenance savings to the College.
Collegewide Utilities Master Plan (Pending 2021), Montgomery College 2025 Strategic Plan, Collegewide Facilities Master Plan Update (6/18), VFA Facilities Condition Assessment (12/13).

OTHER

FY23 Appropriation: $1,937,000; ($1,000,000 (G.O. Bonds) and $937,000 (State Aid)). FY24 Appropriation: $1,500,000; ($1,000,0000 (G.O. Bonds), and $500,000 (State Aid)). The need to provide new systems for heating and cooling campus buildings was articulated in the utilities master plan and satisfying this requirement is critical to new building construction and the planned renovation of the existing campus buildings.

DISCLOSURES

Montgomery College asserts that this project conforms to the requirement of relevant local plans, as required by the Maryland Economic Growth, Resource Protection and Planning Act.