

Takoma Park Central Plant -- No. 016600

Category **Montgomery College**
 Agency **Montgomery College**
 Planning Area **Takoma Park**
 Relocation Impact **None.**

Date Last Modified
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 Required Adequate Public Facility

January 9, 2006
 20-18 (03 App)
 NO

EXPENDITURE SCHEDULE (\$000)

Cost Element	Total	Thru FY05	Est. FY06	Total 6 Years	FY07	FY08	FY09	FY10	FY11	FY12	Beyond 6 Years
Planning, Design and Supervision	345	343	2	0	0	0	0	0	0	0	0
Land											
Site Improvements and Utilities	6,363	3,242	2,081	1,040	1,040	0	0	0	0	0	0
Construction											
Other											
Total	6,708	3,585	2,083	1,040	1,040	0	0	0	0	0	0

FUNDING SCHEDULE (\$000)

G.O. Bonds	3,354	1,793	1,041	520	520	0	0	0	0	0	0
State Aid	3,354	1,792	1,042	520	520	0	0	0	0	0	0

ANNUAL OPERATING BUDGET IMPACT (\$000)

Maintenance				-32	-8	-8	-8	-8	0	0	0
Energy				-80	-20	-20	-20	-20	0	0	0
Program-Staff				-32	-8	-8	-8	-8	0	0	0
Program-Other				-200	-50	-50	-50	-50	0	0	0
Offset Revenue				0	0	0	0	0	0	0	0
Net Impact				-344	-86	-86	-86	-86	0	0	0

DESCRIPTION

This project provides for the design and construction of a central heating and cooling plant on the Takoma Park Campus as recommended in the College's campus utilities master plan (10/91). The plan for a Campus central plant was further developed in the Campus facilities master plan (1/98) where it was recommended that the plant be located in the planned Student Services Center on the north end of the existing Campus. This project is integrated into the overall planning and coordination for the Campus expansion project. 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 cold water distribution piping system to eleven existing campus buildings.

JUSTIFICATION

This project implements the recommendations of the campus utilities master plan (10/91) and campus facilities master plan (2/98). 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, the 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.

Plans and Studies

Takoma Park Campus Utilities Master Plan (10/91); Takoma Park Campus Facilities Master Plan (2/98); Program Justification and Description Report for Students Services Ctr (3/27/98); and Takoma Park Campus Central Plant & Dist. System (8/15/99).

STATUS

Design phase. The Takoma Park central plant project implements a portion of the Campus' utilities master plan. 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 the planned renovation of the existing campus buildings. The planning for the central plant project was integrated into the plan for the Takoma Park Campus expansion with the September 1999 submission of the Part I/II facility program for the project to the State. The State approved the project program in July 2000. The College awarded an engineering design contract for this project in December 2001 and the central plant design is being coordinated with the design of the Student Services Center as part of the Campus expansion project. The facilities program for the project has been revised to reflect the relocation of the Cultural Arts Center and the concomitant decision to not extend the piping distribution system over the WMATA/CSX tracks to the College's Georgia Avenue expansion site. The revised program reflects a total cost reduction of \$846,000, which includes a reconciliation of the state and county funding amounts for design and construction administration (\$280,000), and a reduction in the pipe distribution system (\$566,000). The final phase of the project will extend a heating and cooling pipe distribution system throughout the east campus.

OTHER

State share of project based on anticipated eligible costs. Design fees above approximately 7% of estimated construction costs may not be eligible for State reimbursement.

Fund Sources: G.O. Bonds and State Aid.

APPROPRIATION AND EXPENDITURE DATA

Date First Appropriation	FY01	(\$000)
Initial Cost Estimate		5,204
First Cost Estimate		
Current Scope	FY05	5,668
Last FY's Cost Estimate		5,668
Present Cost Estimate		6,708
Appropriation Request	FY07	0
Appropriation Req. Est.	FY08	0
Supplemental		
Appropriation Request	FY06	0
Transfer		0
Cumulative Appropriation		5,668
Expenditures/		
Encumbrances		3,578
Unencumbered Balance		2,090
Partial Closeout Thru	FY04	0
New Partial Closeout	FY05	0
Total Partial Closeout		0

COORDINATION

Takoma Park Campus Expansion (#996662)
 Takoma Park/Silver Spring Campus building renovations.

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

MAP