Clarksburg Area Stage 3 Water Main, Part 4

A. Identification and Coding Information		
Agency Number	Project Number	Update Code
W - 000046.24	113800	Change

PDF Date	October 1, 2019
Date Revised	

Pressure Zones	Brink HG760A
Drainage Basins	
Planning Areas	Clarksburg & Vicinity PA 13

B. Expenditure Schedule (000's)

Cost Elements	Total	Thru FY'19	Estimate FY'20	Total 6 Years	Year 1 FY'21	Year 2 FY'22	Year 3 FY'23	Year 4 FY'24	Year 5 FY'25	Year 6 FY'26	Beyond 6 Years
Planning, Design & Supervision	542	480	32	30	30						
Land											
Construction	3,879	3,318	210	351	351						
Other	94		36	58	58						
Total	**4,515**	**3,798**	**278**	**439**	**439**						

C. Funding Schedule (000's)

Contributions/Other	4,515	3,798	278	439	439						

D. Description & Justification

DESCRIPTION

This project provides for the design and construction of 3,580 feet of 24-inch diameter water main along Brink Road and Route 355 and 2,920 feet of 24-inch diameter water main along West Old Baltimore Road.

JUSTIFICATION

This water main is planned to serve the area designated as "Stage 3" in the Clarksburg Master Plan and Hyattstown Special Study Area, approved and adopted in June 1994.
General Plan and M-NCP&PC Round 6 growth forecasts.

COST CHANGE

Cost and schedule updated based upon information provided by the developer.

OTHER

The project scope has remained the same. Expenditure and schedule projections shown in Block B are based on information provided by the developer. Design and construction of this project will be performed by the developer under System Extension Permits. The estimated completion date is developer dependent. No WSSC rate supported debt will be used for this project.

COORDINATION

Coordinating Agencies: Maryland State Highway Administration; Maryland-National Capital Park & Planning Commission; Montgomery County Government
Coordinating Projects: W - 000046.15 - Clarksburg Elevated Water Storage Facility; W - 000046.25 - Clarksburg Area Stage 3 Water Main, Part 5

E. Annual Operating Budget Impact (000's)		FY of Impact
Staff & Other		
Maintenance	$192	
Debt Service		
Total Cost	$192	
Impact on Water and Sewer Rate		

F. Approval and Expenditure Data (000's)

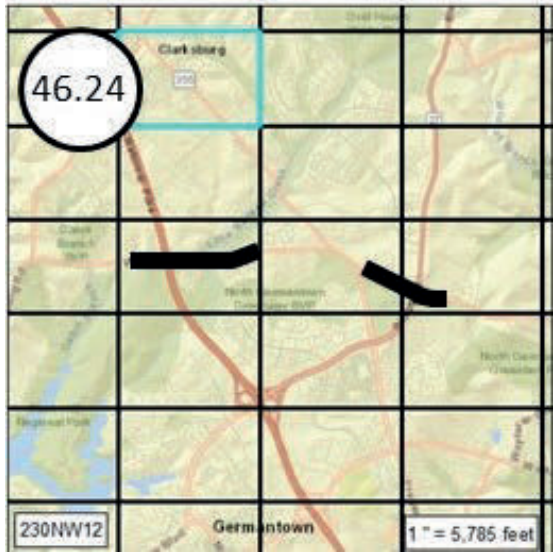
Date First in Program	FY 11
Date First Approved	FY 97
Initial Cost Estimate	1,954
Cost Estimate Last FY	4,088
Present Cost Estimate	4,515
Approved Request Last FY	271
Total Expense & Encumbrances	3,798
Approval Request Year 1	439

G. Status Information

Land Status	Not Applicable
Project Phase	Construction
Percent Complete	75 %
Estimated Completion Date	Developer Dependent

Growth	100%
System Improvement	
Environmental Regulation	
Population Served	
Capacity	

H. Map



Clarksburg Area Stage 3 Water Main, Part 5

A. Identification and Coding Information		
Agency Number	Project Number	Update Code
W - 000046.25	163801	Change

PDF Date	October 1, 2019
Date Revised	

Pressure Zones	Brink HG760A
Drainage Basins	
Planning Areas	Clarksburg & Vicinity PA 13

B. Expenditure Schedule (000's)

Cost Elements	Total	Thru FY'19	Estimate FY'20	Total 6 Years	Year 1 FY'21	Year 2 FY'22	Year 3 FY'23	Year 4 FY'24	Year 5 FY'25	Year 6 FY'26	Beyond 6 Years
Planning, Design & Supervision	220	215	5								
Land											
Construction	2,280	235	1,690	355	355						
Other	345		292	53	53						
Total	**2,845**	**450**	**1,987**	**408**	**408**						

C. Funding Schedule (000's)

Contributions/Other	2,845	450	1,987	408	408						

D. Description & Justification

DESCRIPTION

This project provides for the design and construction of 2,700 feet of 24-inch diameter water main along Route 355 and West Old Baltimore Road.

JUSTIFICATION

This water main is planned to serve the area designated as "Stage 3" in the Clarksburg Master Plan and Hyattstown Special Study Area, approved and adopted in June, 1994.
General Plan and M-NCPPC Round 6 growth forecasts.

COST CHANGE

Not applicable.

OTHER

The project scope has remained the same. Pending area road projects had resulted in the need to accelerate portions of the 24-inch water project separate from project W-46.24. The project will be completed by the developer under a System Extension permit and in conjunction with Montgomery County and Maryland State Highway Administration road projects. No WSSC rate supported debt will be used for this project.

COORDINATION

Coordinating Agencies: Maryland State Highway Administration; Maryland-National Capital Park & Planning Commission; Montgomery County Department of Public Works and Transportation; Montgomery County Government
Coordinating Projects: W - 000046.24 - Clarksburg Area Stage 3 Water Main, Part 4

E. Annual Operating Budget Impact (000's)		FY of Impact
Staff & Other		
Maintenance	$80	
Debt Service		
Total Cost	$80	
Impact on Water and Sewer Rate		

F. Approval and Expenditure Data (000's)

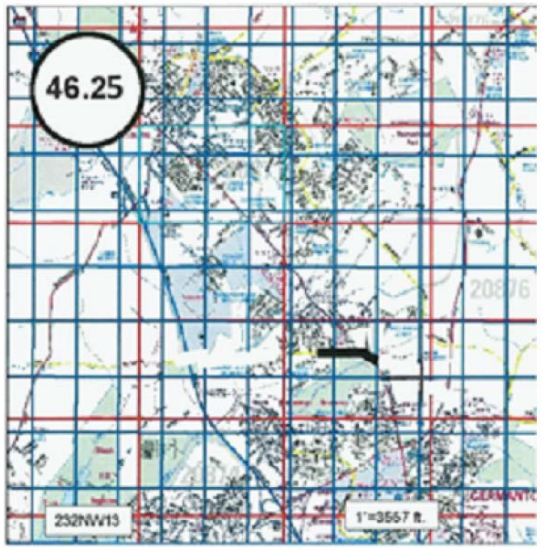
Date First in Program	FY 16
Date First Approved	FY 97
Initial Cost Estimate	1,624
Cost Estimate Last FY	2,712
Present Cost Estimate	2,845
Approved Request Last FY	397
Total Expense & Encumbrances	450
Approval Request Year 1	408

G. Status Information

Land Status	Not Applicable
Project Phase	Construction
Percent Complete	70 %
Estimated Completion Date	Developer Dependent

Growth	100%
System Improvement	
Environmental Regulation	
Population Served	
Capacity	

H. Map



Brink Zone Reliability Improvements

A. Identification and Coding Information		
Agency Number	Project Number	Update Code
W - 000090.04	143800	Change

PDF Date	October 1, 2019
Date Revised	

Pressure Zones	Brink HG760A; Cedar Heights HG836A; Clarksburg HG740B;
Drainage Basins	
Planning Areas	Gaithersburg & Vicinity PA 20

B. Expenditure Schedule (000's)

Cost Elements	Total	Thru FY'19	Estimate FY'20	Total 6 Years	Year 1 FY'21	Year 2 FY'22	Year 3 FY'23	Year 4 FY'24	Year 5 FY'25	Year 6 FY'26	Beyond 6 Years
Planning, Design & Supervision	1,767	1,337	396	34	34						
Land											
Construction	13,641	6,229	6,883	529	529						
Other	784		728	56	56						
Total	**16,192**	**7,566**	**8,007**	**619**	**619**						

C. Funding Schedule (000's)

WSSC Bonds	16,192	7,566	8,007	619	619						

D. Description & Justification

DESCRIPTION

This project provides for the planning, design, and construction of a new water pumping station and pipeline to increase reliability and redundancy to the Montgomery County High Zone water transmission system.

JUSTIFICATION

The Neelsville Water Pumping Station is the sole delivery of water from the Montgomery County High Zone (HG660) through a single 24-inch diameter PCCP Water Transmission Main that crosses 2 miles to the Brink Elevated Tank (HG760). The new pumping station will effectively deliver water to the Brink Elevated Tank and, in turn, the Cedar Heights (HG836), Damascus (HG960), and dependent pressure zones.
Business Case Evaluation: Brink Reliability Assessment, Black & Veatch (June 2013).

COST CHANGE

Not applicable.

OTHER

The project scope has remained the same. Expenditure and schedule projections shown in Block B are based upon actual bid.

COORDINATION

Coordinating Agencies: Maryland Department of the Environment; Maryland-National Capital Park & Planning Commission; Montgomery County Department of Environmental Protection; Montgomery County Government
Coordinating Projects: Not Applicable

E. Annual Operating Budget Impact (000's)		FY of Impact
Staff & Other		
Maintenance		
Debt Service	$1,053	22
Total Cost	$1,053	22
Impact on Water and Sewer Rate		

F. Approval and Expenditure Data (000's)

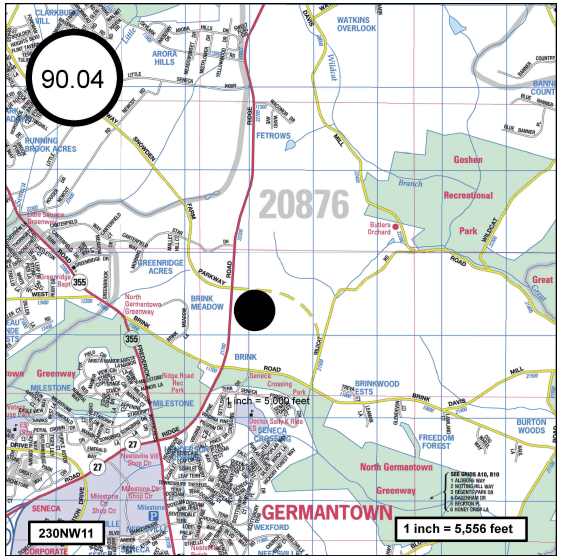
Date First in Program	FY 14
Date First Approved	FY 14
Initial Cost Estimate	345
Cost Estimate Last FY	16,700
Present Cost Estimate	16,192
Approved Request Last FY	6,085
Total Expense & Encumbrances	7,566
Approval Request Year 1	619

G. Status Information

Land Status	Not Applicable
Project Phase	Construction
Percent Complete	45 %
Estimated Completion Date	August 2020

Growth	
System Improvement	100%
Environmental Regulation	
Population Served	
Capacity	13 MGD

H. Map



White Oak Water Mains Augmentation

A. Identification and Coding Information		
Agency Number	Project Number	Update Code
W - 000113.20	382001	Change

PDF Date	October 1, 2019
Date Revised	

Pressure Zones	Montgomery Main 495A
Drainage Basins	
Planning Areas	Fairland-Beltsville (PG) PA 61; Langley Park & Vicinity PA 65

B. Expenditure Schedule (000's)

Cost Elements	Total	Thru FY'19	Estimate FY'20	Total 6 Years	Year 1 FY'21	Year 2 FY'22	Year 3 FY'23	Year 4 FY'24	Year 5 FY'25	Year 6 FY'26	Beyond 6 Years
Planning, Design & Supervision	823		309	514	309	103	51	51			
Land											
Construction	3,500			3,500		180	1,930	1,390			
Other	647		46	601	46	42	297	216			
Total	**4,970**		**355**	**4,615**	**355**	**325**	**2,278**	**1,657**			

C. Funding Schedule (000's)

SDC	4,970		355	4,615	355	325	2,278	1,657			

D. Description & Justification

DESCRIPTION

This project provides for the planning, design, and construction required for the replacement of 7,650 feet of 4-inch to 20-inch diameter water main along Cherry Hill Road, Gracefield Road, and Powder Mill Road/Perimeter Road to serve three planned projects in the White Oak area: Washington Adventist Hospital, VIVA Global LifeSci Village, and Food & Drug Administration White Oak Master Plan.

JUSTIFICATION

The existing mains in these areas will be upsized to provide adequate capacity to serve domestic and fire flow needs for the three new developments. The mains will also provide additional looping and redundancy to the 495A Pressure Zone.
MWCOG Round 8.0 growth forecasts; WSSC Memorandum dated November 21, 2017; Capital Needs Process Validation #122 submitted December 4, 2017.

COST CHANGE

Not applicable.

OTHER

The schedule and expenditures shown in Block B above are preliminary planning level estimates and are expected to change once the project moves into design.

COORDINATION

Coordinating Agencies: Maryland Department of the Environment; Maryland State Highway Administration; Maryland-National Capital Park & Planning Commission; Montgomery County Government; Prince George's County Government
Coordinating Projects: Not Applicable

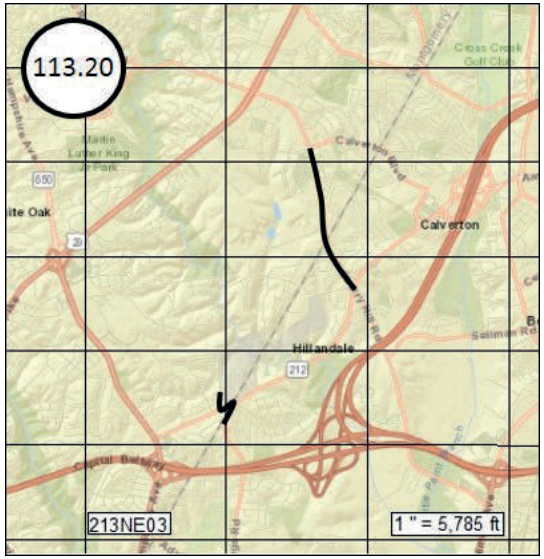
E. Annual Operating Budget Impact (000's)		FY of Impact
Staff & Other		
Maintenance	$226	25
Debt Service		
Total Cost	$226	25
Impact on Water and Sewer Rate		

F. Approval and Expenditure Data (000's)

Date First in Program	FY 20
Date First Approved	FY 20
Initial Cost Estimate	4,380
Cost Estimate Last FY	4,830
Present Cost Estimate	4,970
Approved Request Last FY	345
Total Expense & Encumbrances	
Approval Request Year 1	355

G. Status Information

Land Status	Not Applicable
Project Phase	Planning
Percent Complete	10 %
Estimated Completion Date	April 2024

Growth	100%
System Improvement	
Environmental Regulation	
Population Served	
Capacity	

H. Map