

# Walter Reed Army Medical Center: Main Campus Wastewater Collection System

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# **J05 Walter Reed Army Medical Center Wastewater Collection System**

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## **J05.1 Walter Reed Army Medical Center Overview**

The Main Campus of Walter Reed Army Medical Center (WRAMC) is located in northern Washington, D.C., at 7100 Georgia Ave. N.W., between Rock Creek Park and Georgia Avenue near the Maryland - District of Columbia boundary. WRAMC is staffed by about 600 physicians, 535 registered nurses, and 600 licensed practical nurses. The host command is the U.S. Army Medical Command. The WRAMC mission is multi-faceted, and includes:

- (1) provision of advanced and sub-specialty health care and services to soldiers, their families, and a large community of military retirees.
- (2) Medical education and training, which contribute to the Army medical department of tomorrow.
- (3) Medical research for our soldiers and patients, to strengthen the armed forces of the future

## **J05.2 Wastewater Collection System Description**

### **J05.2.1 Wastewater Collection System Fixed Equipment Inventory**

The Walter Reed Army Medical Center wastewater system consists of all appurtenance physically connected to the collection system from the point of demarcation defined by the real estate instruments to point in which the collection system exits the base (Section B). The system may include, but is not limited to, pipelines, manholes, lift stations, valves, controls, treatment plants, meters, etc. The following description and inventory is included to provide the Contractor a general understanding of the size and configuration of the distribution system. The Government makes no representation that the inventory is accurate. The Contractor shall base the proposal on site inspections, information in the technical library, other pertinent information, and to a lesser degree the following description and inventory. Under no circumstances shall the Contractor be entitled to any service cost adjustments based on the accuracy of the following description and inventory.

#### **J05.2.1.1 Wastewater Collection System Description**

The wastewater collection system at Walter Reed Army Medical Center (WRAMC) is a gravity flow system consisting of sewer collection pipes and manholes. There are no wastewater treatment facilities or lift stations on WRAMC.

The wastewater collection system on the Main Campus consists of approximately 16,520 feet of pipe, ranging in size from six to twenty-four inches, made up of terra cotta clay, vitrified clay, and concrete pipe. There are about 128 manholes.

A new Physical Fitness Building is currently under construction. Upon completion, water distribution and wastewater collection system load will increase, but additional

load quantity is uncertain. Completion is expected to occur after system transfer to the successful Offeror.

### J05.2.1.2 Inventory

**Table 1** provides a general listing of the major collection system fixed assets for the WRAMC Main Campus wastewater collection systems included in the purchase. The systems will be sold in a “as is, where is” condition without any warranty, representation, or obligation on the part of Government to make any alterations, repairs, or improvements. Ancillary equipment attached to, and necessary for, operating the system, though not specifically mentioned herein, is considered part of the purchased utility.

**TABLE 1**  
Fixed Inventory  
Wastewater Collection System Inventory WRAMC Main Campus

Item	Size (in.)	Quantity	Unit	Approximate Year of Construction
<b>SEWER PIPE</b>				
<b>Ductile iron</b>	6	263	lf	1993
	8	239	lf	1985
	12	142	lf	1985
	18	48	lf	1985
<b>Concrete</b>	8	229	lf	1974
	12	645	lf	1974
	15	760	lf	1974
<b>Vitrified clay</b>	6	118	lf	1974
	8	107	lf	>50 years old
	8	335	lf	1974
	8	150	lf	1985
	16	54	lf	1985
	18	243	lf	1985
<b>Terra cotta clay</b>	24	415	lf	1985
	6	2,469	lf	>50 years old
	6	98	lf	1985
	8	2,204	lf	>50 years old
	8	561	lf	1974

Item	Size (in.)	Quantity	Unit	Approximate Year of Construction
Terra cotta clay	8	88	lf	1985
	12	4,023	lf	>50 years old
	12	40	lf	1985
	15	134	lf	>50 years old
	16	38	lf	1965
	18	1,026	lf	>50 years old
	18	91	lf	1965
	18	508	lf	1974
	21	304	lf	1965
	24	408	lf	1974
<b>STANDARD SANITARY SEWER MANHOLES</b>	--	128	ea	Note 1

Note 1: Manholes installation dates range from early 1900's through mid-1990's.  
lf = linear feet  
ea = each

## J05.2.2 Wastewater Collection System Non-Fixed Equipment and Specialized Tools Inventory

**Table 2** lists other ancillary equipment (spare parts) and **Table 3** lists specialized vehicles and tools included in the purchase. Offerors shall field verify all equipment and tools prior to submitting a bid. Offerors shall make their own determination of the adequacy of all equipment and tools. The successful Contractor shall provide any and all equipment, vehicles, and tools, whether included in the purchase or not, to maintain a fully operating system under the terms of this contract.

**TABLE 2**  
Spare Parts  
Wastewater Collection System WRAMC Main Campus

Qty	Item	Make/Model	Description	Remarks
	None Identified			

**TABLE 3**  
Specialized Equipment and Vehicles  
Wastewater Collection System WRAMC Main Campus

Description	Quantity	Location	Maker
None Identified			

### J05.2.3 Wastewater System Manuals, Drawings, and Records Inventory

Table 4 lists the manuals, drawings, and records that will be transferred with the system.

**TABLE 4**  
Manuals, Drawings, and Records  
Wastewater Collection System WRAMC Main Campus

Qty	Item	Description	Remarks
Miscellaneous Manuals, Drawings, and Records, which are included in the Technical Library			

## J05.3 Specific Service Requirements

The service requirements for the Walter Reed Army Medical Center Main Campus wastewater collection system are as defined in Section C, *Description/Specifications/Work Statement*.

## J05.4 Current Service Arrangement

The Government of the District of Columbia provides wastewater treatment for WRAMC Main Campus. There are no separate meters for measuring wastewater, but instead the potable water meter readings are used, and sewage is billed at 100% of the potable water provided. The potable water meters at WRAMC have not been read since FY95, and all current billings are based on estimates, based on the FY95 meter readings. The meter readings were performed on a quarterly basis. Based on the FY95 quarterly meter readings, the FY98 sewage flow is estimated to be approximately 0.7 million gallons per day (MGD) maximum and 213 million gallons (MG) per year.

As required by this contract, the Contractor shall demonstrate the ability to meet and shall establish the requirements to provide wastewater service to WRAMC.

## J05.5 Secondary Metering

The Base may require secondary meters for internal billings of their reimbursable customers, utility usage management, and other monitoring purposes. The Contractor shall assume full ownership and responsibility for existing and future secondary meters IAW Paragraph C.3.

### J05.5.1 Existing Secondary Meters

**Table 5** provides a listing of the existing (at the time of contract award) secondary meters that will be transferred to the Contractor. The Contractor shall provide meter readings once a month for all secondary meters IAW Paragraph C.3 and J05.6 below.

**TABLE 5**  
Existing Secondary Meters  
Wastewater Collection System WRAMC Main Campus

Meter Location	Meter Description
None identified	

### J05.5.2 Required New Secondary Meters

The Contractor shall install and calibrate new secondary meters as listed in Table 6. New secondary meters shall be installed IAW Paragraph C.13, Transition Plan. After installation, the Contractor shall maintain and read these meters IAW Paragraphs C.3 and J05.6 below.

**TABLE 6**  
New Secondary Meters  
Wastewater Collection System WRAMC Main Campus

Meter Location	Meter Description
None Identified	

## J05.6 Submittals

The Contractor shall provide the Government monthly submittals for the following:

1. Invoice (IAW G.2). The Contractor's monthly invoice shall be presented in a format proposed by the Contractor and accepted by the Contracting Officer. Invoices shall be submitted by the 25<sup>th</sup> of each month for the previous month. Invoices shall be submitted to the person identified at time of contract award.

2. **Outage Report.** The Contractor’s monthly outage report will be prepared in the format proposed by the Contractor and accepted by the Contracting Officer. Outage reports shall be submitted by the 25<sup>th</sup> of each month for the previous month. Outage reports shall be submitted to the person identified at time of contract award.
3. **Meter Reading Report.** The monthly meter reading report shall show the current and previous month readings for all identified secondary meters. The Contractor’s monthly meter reading report will be prepared in the format proposed by the Contractor and accepted by the Contracting Officer. Meter reading reports shall be submitted by the 15<sup>th</sup> of each month for the previous month. Meter reading reports shall be submitted to the person identified at time of contract award.

## **J05.7 Infiltration and Inflow (I&I) Projects**

IAW C.3, Utility Service Requirement, the following projects have been implemented by the Government for managing and monitoring I&I.

None

## **J05.8 Service Area**

IAW Paragraph C.4, Service Area, the service area is defined as all areas within the WRAMC Main Campus boundaries.

## **J05.9 Off-Installation Sites**

The Walter Reed Army Medical Center D.C. Forest Glen Annex is located in Silver Spring, Maryland.

## **J05.10 Specific Transition Requirements**

IAW Paragraph C.13, Transition Plan, **Table 7** lists service connections and disconnections required upon transfer of the WRAMC wastewater collection system.

**TABLE 7**  
Service Connections and Disconnections  
Wastewater Collection System WRAMC Main Campus

<b>Location</b>	<b>Description</b>
None Identified	

## **J05.11 Government Recognized System Deficiencies**

**Table 8** provides a listing of system improvements that the government has planned. The government recognizes these improvement projects as representing current deficiencies

associated with the Walter Reed Army Medical Center Main Campus wastewater collection system. If the utility system is sold, the government will not accomplish these planned improvements. The contractor shall make a determination as to its actual need to accomplish and the timing of any and all such planned improvements. Capital upgrade projects shall be proposed through the capital upgrades and renewal and replacement plan process and will be recovered through schedule L-3. Renewal and replacement projects will be recovered through sub-clin ac.

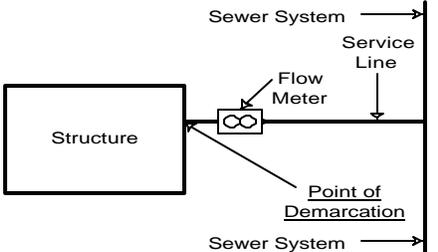
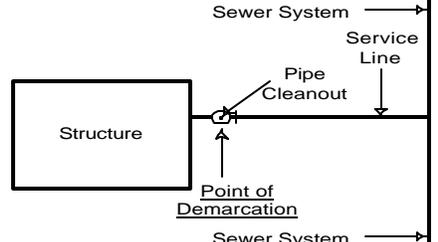
**TABLE 8**  
System Deficiencies  
Wastewater Collection System WRAMC Main Campus

Project Location	Project Description
None Identified	

## J05.12 Wastewater Collection System Points of Demarcation

The point of demarcation is defined as the point on the wastewater collection pipe where ownership changes from the Grantee to the building owner. This point of demarcation will typically be at the point the utility enters a building structure. **Table 9** identifies the type and general location of the point of demarcation with respect to the building for each scenario. **Table 10** lists anomalous points of demarcation that do not fit any of the scenarios of Table 9. **Table 11** includes any parcels of land that the Grantee will need to be granted exclusive use under the right-of-way.

**TABLE 9**  
Points of Demarcation  
Wastewater Collection System WRAMC Main Campus

Point of Demarcation	Applicable Scenario	Sketch
Point where the service line enters the structure	Sewer system flow meter is located on the service line entering the structure.	 <p>The sketch shows a rectangular box labeled 'Structure' on the left. A horizontal line representing the 'Service Line' enters the structure from the right. On this line, there is a circular symbol with an infinity-like symbol inside, labeled 'Flow Meter'. An arrow points from the text 'Point of Demarcation' to this flow meter. To the right of the structure, the line continues as the 'Sewer System', indicated by arrows pointing right. A vertical line on the far right represents the 'Service Line' boundary.</p>
Point of demarcation is the cleanout device. if within 10' of the building perimeter	No flow meter exists and a sewer system cleanout is located within 10 feet of the building perimeter on the service line.	 <p>The sketch shows a rectangular box labeled 'Structure' on the left. A horizontal line representing the 'Service Line' enters the structure from the right. On this line, there is a circular symbol with a cross inside, labeled 'Pipe Cleanout'. An arrow points from the text 'Point of Demarcation' to this cleanout. To the right of the structure, the line continues as the 'Sewer System', indicated by arrows pointing right. A vertical line on the far right represents the 'Service Line' boundary.</p>

Point of Demarcation	Applicable Scenario	Sketch
Point where the service line enters the structure  <i>Note: A new cleanout device should be installed within 10' of building during any stoppage or maintenance action. This will then become the new point of demarcation.</i>	No flow meter or cleanout exists on the service line entering the structure.	

**TABLE 10**  
 Anomalous Points of Demarcation  
 Wastewater Collection System WRAMC Main Campus

Building No.	Point of Demarcation Description
None	

**TABLE 11**  
 Plants  
 Wastewater Collection System WRAMC Main Campus

Description	Facility Number	State Coordinates	Other Information
None			