

ATTACHMENT J3

# Andrews AFB Wastewater System

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# J3 Andrews AFB Wastewater System

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## J3.1 Andrews AFB Overview

Andrews AFB is located in Prince George's County, Maryland approximately 5 miles southeast of Washington, D.C. Andrews AFB exists as an active military installation so the 89<sup>th</sup> Airlift Wing (AW) can provide worldwide airlift and logistical support for the President of the United States, and other key members of the government. The 89<sup>th</sup> AW also operates and maintains the base. The major tenants of the base include the following:

- Federal Aviation Administration
- 459<sup>th</sup> Airlift Wing (Air Force Reserve)
- 113<sup>th</sup> Fighter Wing, District of Columbia Air National Guard
- The Air National Guard Readiness Center
- Naval Air Facility
- Marine Aircraft Group 49, Detachment A
- DET 302, Air Force Office of Special Investigations
- 317<sup>th</sup> USAF Recruiting Squadron

**Main Base** - Andrews AFB main base occupies approximately 4,346 acres. The base is a major employer in the county. It has been built up continuously since 1945 and currently includes approximately 457 air force buildings comprising approximately 5,188,000 Square Feet (SF), 41 non-Air Force buildings comprising approximately 762,000 SF, and 686 military family housing buildings comprising approximately 3,003,000 SF. The Air Force building total includes 7 dormitory buildings (299,000 SF), 34 visitor and temporary lodging buildings (189,000 SF), 2 dining halls (25,000 SF), 14 hangars (1,057,000), and 400 other miscellaneous buildings. There are no programmed major demolition programs or construction programs that would significantly change the base facility makeup or utility consumption other than the recent Fiscal Year 2003 project to demolish the 53 housing buildings on the eastern side of the runway. These demolished housing unit laterals are not included in the contract. The mains will remain and are included in this contract.

**Brandywine Receiver Site** - The Brandywine site is located about 5-miles south of the main base. It occupies approximately 1653 acres of land and has been in use since 1955. The receiver facility and the AFSATCOM operations building are the only facilities that are routinely occupied on this site.

**Davidsonville Transmitter Site** - The Davidsonville site is located approximately 20 miles east of Washington D.C. It occupies approximately 852 acres of land and has been in use since 1955. The transmitter facility is the only facility that is routinely occupied on this site.

## **J3.2 Wastewater System Description**

### **J3.2.1 Wastewater System Fixed Equipment Inventory**

The Andrews wastewater system consists of all appurtenances physically connected to the collection system from the point of demarcation defined by the Right-of-Way instrument (RFP Attachment J41, Exhibit 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. It is estimated that the average depth of burial for the Asbestos pipe, cast iron pipe, and PVC pipe is 4 feet deep for pipe sizes 6 inches and less, and 8 feet deep for pipe sizes 8 inches and larger. It is estimated that the average depth of burial for Vitreous Clay Pipe (VCP) is 12 feet deep. It is also estimated that 20% of all the piping lies beneath 6-inch thick pavements.

Specifically excluded from the wastewater collection system privatization are:

- Oil/Water Separators
- Grease Traps
- Storm Sewers

#### **J3.2.1.1 Main Base Description**

The Washington Suburban Sanitary Commission (WSSC) provides wastewater treatment for all sanitary wastes generated at Andrews AFB. It has collection lines that run along State Route 4 near the northeast section of the base and along State Route 337 and 5 near the northwest section of the base. The wastewater from the entire east side of the base is collected through a system of gravity pipe and force mains to a 12-inch gravity main that connects with a 12-inch WSSC line near Dower House Road at State Route 4. Three guard posts (Buildings 1564, 3681, and 4502) on the main base discharge to septic tanks which must be bypassed by a project as identified in Table 6 of this document. The Septic tanks and all points down line including the leach fields are not included in the contract as identified in the Right-of-Way document.

The west side of the base feeds through a collection system of gravity pipe and force mains to a 21-inch gravity main that connects with a 21-inch WSSC line at the property line near the hospital. The wastewater collection system includes pipe, lift stations and force mains installed beginning in the 1940's and continuing with additions up through 2002. The system includes approximately 264,000 linear feet of pipe ranging in size from 2-inch force mains to 21-inch gravity pipes; 90 lift station pumps; and over 2,000 service laterals from facilities and family housing units. It is estimated that the depth of burial for the asbestos,

cast iron, and PVC pipe is an average of 4 feet deep for pipe sizes up to and including 6" and an average of 8 feet deep for pipe sizes 8 inches and greater. The estimated average depth of all vitreous clay (VC) pipe is assumed to be 12 feet. It is also estimated that 20% of all the piping lies beneath six inch thick pavements.

The installation has been notified by WSSC that there is significant inflow and infiltration in the system due to increased flow during rainy weather.

There is no cathodic protection and no tracer wires on the collection system.

### **J3.2.1.2 Brandywine Receiver Site System Description**

The wastewater collection system consists of approximately 4,100 linear feet of 4-inch, 6-inch and 8-inch pipe, and two small lift stations. A treatment system was replaced in 2003 by installation of a force main extending to a WSSC collection main at the edge of the property. The new main will be in place in 2003 before the system is privatized. Once the new connection to WSSC is in service, the Government will demolish the treatment facility. Therefore, the ownership and operation of the former treatment system is not included in the contract. The operations building of the SATCOM Area discharges to a septic tank and leach field. The Septic tank and all points down line including the leach field are not included in the contract as is identified in the Right-of-Way document.

It is estimated that the pipe depth of burial is an average of 4 feet deep. It is also estimated that 20% of all the piping lies beneath six inch thick pavements.

There is no cathodic protection and no tracer wires on the collection system.

### **J3.2.1.3 Davidsonville Transmitter Site**

The wastewater collection, treatment and disposal system consists of approximately 650 linear feet of 4-inch and 6-inch pipe, a batch treatment system, and discharge pipe to a nearby leach field. The site has a new package plant treatment system installed in 2003 that is designed to treat up to 5,000 gallons per day. Ownership and operation of this treatment system is included in the contract.

It is estimated that the pipe depth of burial is an average of 4 feet deep for pipe sizes at this site. It is also estimated that 20% of all the piping lies beneath six inch thick pavements.

There is no cathodic protection and no tracer wires on the collection system.

### **J3.2.1.2 Inventory**

**Table 1-A** provides a general listing of the major wastewater system fixed assets for the Andrews AFB wastewater system included in the purchase

**Table 1-B** provides a general listing of the major wastewater system fixed assets for the Brandywine Receiver Site wastewater system included in the purchase.

**Table 1-C** provides a general listing of the major wastewater system fixed assets for the Davidsonville Transmitter Site wastewater system included in the purchase.

**TABLE 1-A**  
Fixed Inventory-Main Base  
*Wastewater System Andrews AFB - Main Base*

<b>Item</b>	<b>Size</b>	<b>Quantity</b>	<b>Unit</b>	<b>Approximate Year of Construction</b>
Asbestos Cement Pipe	2 inch	1410	LF	1970
Asbestos Cement Pipe	4 inch	3,710	LF	1945
Asbestos Cement Pipe	4 inch	9,710	LF	1955
Asbestos Cement Pipe	4 inch	3,930	LF	1965
Asbestos Cement Pipe	6 inch	2,520	LF	1945
Asbestos Cement Pipe	6 inch	1,000	LF	1955
Asbestos Cement Pipe	6 inch	670	LF	1965
Asbestos Cement Pipe	6 inch	720	LF	1970
Asbestos Cement Pipe	8 inch	25,140	LF	1965
Asbestos Cement Pipe	8 inch	2,940	LF	1970
Asbestos Cement Pipe	10 inch	2,340	LF	1965
Cast Iron Pipe	3 inch	470	LF	1975
Cast Iron Pipe	4 inch	500	LF	1945
Cast Iron Pipe	4 inch	400	LF	1965
Cast Iron Pipe	4 inch	150	LF	1975
Cast Iron Pipe	6 inch	1,980	LF	1965
Cast Iron Pipe	6 inch	910	LF	1975
Cast Iron Pipe	10 inch	4,060	LF	1945
Cast Iron Pipe	10 inch	2,030	LF	1955
Cast Iron Pipe	10 inch	1,155	LF	1975
Cast Iron Pipe	12 inch	3,090	LF	1945
Cast Iron Pipe	12 inch	3,470	LF	1955
Cast Iron Pipe	15 inch	1,890	LF	1945
Cast Iron Pipe	15 inch	1,120	LF	1955
Cast Iron Pipe	21 inch	855	LF	1945
Cast Iron Pipe	21 inch	1,120	LF	1955
PVC Pipe	3 inch	320	LF	1985
PVC Pipe	3 inch	410	LF	1995
PVC Pipe	6 Inch	940	LF	1985

Item	Size	Quantity	Unit	Approximate Year of Construction
PVC Pipe	6 inch	1,880	LF	1995
PVC Pipe	8 inch	1,040	LF	1985
PVC Pipe	8 inch	3,620	LF	1995
PVC Pipe	10 inch	200	LF	1995
Vitrified Clay Pipe	4 inch	4,565	LF	1945
Vitrified Clay Pipe	4 inch	770	LF	1955
Vitrified Clay Pipe	4 inch	15,750	LF	1965
Vitrified Clay Pipe	4 inch	31,655	LF	1975
Vitrified Clay Pipe	6 inch	6,056	LF	1945
Vitrified Clay Pipe	6 inch	7,028	LF	1955
Vitrified Clay Pipe	6 inch	10,556	LF	1965
Vitrified Clay Pipe	6 inch	4,636	LF	1975
Vitrified Clay Pipe	6 inch	1,130	LF	1985
Vitrified Clay Pipe	8 inch	19,330	LF	1945
Vitrified Clay Pipe	8 inch	12,730	LF	1955
Vitrified Clay Pipe	8 inch	5,500	LF	1965
Vitrified Clay Pipe	8 inch	0	LF	1975
Manhole	5 foot dia, 12 feet deep	35	EA	1955
Manhole	5 foot dia, 12 feet deep	59	EA	1965
Manhole	5 foot dia, 12 feet deep	73	EA	1975
Manhole	5 foot dia, 12 feet deep	5	EA	1995
Manhole	4 foot dia, 6 feet deep	123	EA	1945
Manhole	4 foot dia, 6 feet deep	81	EA	1955
Manhole	4 foot dia, 6 feet deep	138	EA	1965
Manhole	4 foot dia, 6 feet deep	11	EA	1985
Manhole	4 foot dia, 6 feet deep	13	EA	1995

Item	Size	Quantity	Unit	Approximate Year of Construction
Lift Station Wet and Dry Well Under Ground (U/G) Structures	50K GPD	5	EA	1975
Lift Station Pumps and Controls	50K GPD	4	EA	1975
Lift Station Pumps and Controls (Located at the FAA Tower)	50K GPD	1	EA	2002
Lift Station Wet Well (U/G) Structures (Medium)	150K GPD	4	EA	1955
Lift Station Pumps and Controls	150K GPD	2	EA	1955
Lift Station Pumps and Controls (Spokane and Bldg 3158)	150K GPD	2	EA	2002
Lift Station Wet Well (U/G) Structures (Medium)	150K GPD	25	EA	1965
Lift Station Pumps and Controls	150K GPD	24	EA	1965
Lift Station Pumps and Controls (Building 3158)	150K GPD	1	EA	2002
Lift Station Buildings (Masonry Construction) (at Facility 1209, 3056, and 4027)	150K GPD	3	EA	1975
Lift Station Wet Well (U/G) Structures (Medium)	150K GPD	26	EA	1975
Lift Station Pumps and Controls	150K GPD	26	EA	1975
Lift Station Wet Well (U/G) Structures (Medium)	150K GPD	20	EA	1985
Lift Station Pumps and Controls	150K GPD	19	EA	1985
Lift Station Pumps and Controls (OSI Building 4864)	150K GPD	1	EA	2002
Lift Station Wet Well (U/G) Structures (Medium)	150K GPD	4	EA	1995
Lift Station Pumps and Controls	150K GPD	4	EA	1995
Lift Station Wet Well (U/G) Structures (Large) (includes Yuma, Beach Road, Golf Course, Michigan, Atlanta, Tyler)	500K GPD	6	EA	1965
Lift Station Pumps and Controls (Yuma)	500K GPD	1	EA	1995

Item	Size	Quantity	Unit	Approximate Year of Construction
Lift Station Pumps and Controls (Beach Road and Michigan)	500K GPD	2	EA	1999
Lift Station Pumps and Controls (Golf Course, Atlanta, and Tyler)	500K GPD	3	EA	2002
<b>Main Base Housing Areas</b>				
Vitrified Clay Pipe	8 inch	9,530	LF	1945
Cast Iron Pipe	15 inch	2,800	LF	1945
Cast Iron Pipe	18-inch	320	LF	1945
Vitrified Clay Pipe	4 inch	560	LF	1975
Vitrified Clay Pipe	6 inch	2,125	LF	1975
Vitrified Clay Pipe	8 inch	29,325	LF	1975
Cast Iron Pipe	10 inch	3,625	LF	1975
Cast Iron Pipe	12 inch	850	LF	1975
PVC Pipe	4-inch	1,000	LF	1985
PVC Pipe	6 Inch	2,000	LF	1985
PVC Pipe	8-inch	6,750	LF	1985
Manhole	5 foot dia, 12 feet deep	53	EA	1945
Manhole	4 foot dia, 6 feet deep	170	EA	1975
Manhole	5 foot dia, 12 feet deep	5	EA	1985

Notes:  
PVC = Polyvinyl Chloride  
LF = Linear Feet  
SF = Square Feet  
EA = Each  
GPD = Gallons Per Day  
DIA = Diameter

**TABLE 1-B**  
Fixed Inventory-Brandywine  
Wastewater System Andrews AFB- for Brandywine Receiver Site

Item	Size	Quantity	Unit	Approximate Year of Construction
PVC Pipe	8 inch	2050	LF	2003
Cast Iron Pipe (Force Main)	4 inch	1700	LF	2003

Item	Size	Quantity	Unit	Approximate Year of Construction
Vitrified Clay Pipe	6 inch	380	LF	1955
Manhole	4-foot dia, 6 feet deep	8	EA	1995
Manhole, Valve and Meter Vault	5-foot dia, 6 feet deep	1	EA	1995
Lift Station Structure, Bldg # 6	33 SF	1	EA	1955
Lift Station Sub-Structure	500 GPD	1	EA	1955
Lift Station Pumps and Controls	500 GPD	1	EA	1985
Lift Station Pumps and Controls	500 GPD	1	EA	1995

Notes:  
 PVC = Polyvinyl Chloride  
 LF = Linear Feet  
 SF = Square Feet  
 EA = Each  
 GPD = Gallons Per Day  
 DIA = Diameter

**TABLE 1-C**  
 Fixed Inventory-Davidsonville  
*Wastewater System Andrews AFB - Davidsonville Transmitter Site*

Item	Size	Quantity	Unit	Approximate Year of Construction
Vitrified Clay Pipe	4 inch	100	LF	1955
Vitrified Clay Pipe	6 inch	550	LF	1955
Manhole	4 foot dia, 6 feet deep	5	EA	1955
Waste Treatment & Disposal Facility, Bldg # 8	364 SF	1	EA	1995
Waste Treatment & Disposal - Package Plant, Bldg # 8	5,000 GPD	1	EA	2003

Notes:  
 PVC = Polyvinyl Chloride  
 LF = Linear Feet  
 SF = Square Feet  
 EA = Each  
 GPD = Gallons Per Day  
 DIA = Diameter

### **J3.2.2 Wastewater System Non-Fixed Equipment and Specialized Tools Inventory**

**Table 2** lists the 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 his bid. Offerors shall make his own determination of the adequacy of all equipment and tools. The successful Contractor shall provide any and all equipment 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 System Andrews AFB*

Qty	Item	Make/Model	Description	Remarks
None				

**TABLE 3**  
Specialized Vehicles and Tools  
*Wastewater System Andrews AFB*

Description	Quantity	Location	Maker
None			

### J3.2.3 Wastewater Manuals, Drawings, and Records Inventory

Table 4 lists the manuals, drawings, and records that will be transferred with the system (e.g. plant records, flow studies, pipe inspections, pipe capacity studies, etc.).

**TABLE 4**  
Manuals and Records  
*Wastewater System Andrews AFB*

Qty	Item	Description	Remarks
1 Set	Drawings	Wastewater System, Andrews AFB (Untitled)	1"=50' Sheets 1-113
1 Set	Drawings	Sanitary Sewage System, Andrews AFB	Tab G – 2, 2 Sheets
1 Set	Drawings	Off Base Site, Sanitary Sewage System (Brandywine Receiver Site)	Tab G – 2, sheet 1 of 3
1 Set	Drawings	Off Base Sites Layout, Sanitary Sewage System (Davidsonville Transmitter Site)	Tab G – 2, sheet 2 of 3
1 Set	Permits	Plant Operations and NPDES Permits, Brandywine Receiver Site	Historic permits. Permits will not be required at time of Privatization since the treatment facility will be taken out of service by the Government.
1 Set	Permits	Plant Operations and NPDES Permits, Davidsonville Transmitter Site	Current permits at the time of solicitation
1 Set	Manuals	Treatment Plant Operation Manual	For Davidsonville Remote Site Treatment Plant
1 Set	Manuals	Lift Station manuals for 8 Lift Stations refurbished in 2002.	See Table 1A for location of Lift Stations refurbished in 2002.

### **J3.3 Requirements and Standards**

The service requirements and standards for the Andrews AFB wastewater collection system are as defined in the Section C, *Description/Specifications/Work Statement*. The following standards are specific to the Andrews AFB wastewater collection system and are in addition to those found in Section C. If there is a conflict between standards described below and Section C, the standards listed below take precedence over those found in Section C.

**Permits:** Each of the off-installation sites has had NPDES permits for past operations, however, due to the Brandywine treatment facility demolition, only the Davidsonville Site will require NPDES permits. The operator of the Davidsonville treatment system must be licensed by the State of Maryland. As required by this contract, the Contractor shall demonstrate the ability to meet and shall establish the requirements to provide wastewater service to Andrews AFB. It is the intent of this contract for the Contractor to obtain all permits and licenses necessary to provide wastewater service to Andrews AFB and all off-installation sites.

**Road Cuts:** Road cuts for the purpose of installing new lines or expanding existing lines are not permitted on the following streets without the prior written approval of the Base Civil Engineer: Arnold Ave, Alabama Ave, Arkansas Ave, Atlanta Ave, Brookley Ave, Colorado Ave, C Street, D Street, F Street, Fetchet Ave, First Street, Menoher Drive, Patrick Ave, Perimeter Rd, San Antonio Blvd, Tuskegee Drive, and Virginia Ave (with the exception of emergency repairs due to line breaks/leaks). Road cuts made on any other street must follow 89th Civil Engineer Squadron guidelines for repairs.

**Excavations:** Any pit opened for the purpose of repair, replacement or installation of lines must be closed within 24 hours of repair, replacement or installation completion. All disturbed grounds must be completely restored within 5 working days to include sodding, seeding or hydroseeding, as appropriate for the area disturbed, which will be determined by the contracting officer.

**Security Requirements:** The contractor shall conform to all Base Regulations and directives that pertain to security, safety, traffic, fire and personnel clearances. To obtain passes for all work on Andrews AFB, the contractor shall submit the following information on each employee no later than 10 working days before expected arrival on base to 89 CES/CEOD at (301) 981-7416: a. Full Name of Individual; b. Social Security Number; c. Company Name; d. Driver's License Info (State and number); e. Vehicle State and Tag Number; f. Project individual is working. Contractor personnel will then have to report to the Visitor's Center, Bldg 1840, to obtain passes. Passes are good for up to one year.

**Special Security Restrictions:** The contractor shall perform and report the results of criminal history and background checks on any employee prior to working on Andrews AFB. The employees shall report to Maryland State Police for a State Criminal Records Check (SCRC) and a fingerprint check. Once the state check is complete and the findings are reported to the contracting officer, the contracting officer will complete the required paperwork for the contractor to receive access to the installation. These checks shall be at the contractor's expense.

**Controlled Area Access:** Specific facilities and areas on the installation have restricted access. Prior coordination with facility or security manager is required to schedule access.

**Driving on Flightline:** Prior to operating a vehicle on the flightline, the contractor shall complete flightline driver's training and pass the flightline driver's test, which will be provided and administered by the government.

**Marking Utilities:** Contractor shall establish procedures to mark utilities to support excavation work. For non-emergency requests, contractor shall complete all markings no later than 24 hours prior to planned excavation. For emergency requests, contractor shall complete all markings within 1 hour of request.

### J3.4 Current Service Arrangement

The wastewater collection and disposal systems vary between the main base and the two off-site locations. All wastewater from the main base is collected and fed into the WSSC system of collection pipes for treatment and discharge by WSSC. The Davidsonville Transmitter site has a collection, treatment, and disposal systems. The Brandywine Site had a treatment system that is being replaced in 2003 with a new wastewater main that will discharge into a WSSC collection main. This work will be complete prior to the Contract Start Date. After the new main is put in service, the Government will demolish the Brandywine treatment facility. The annual discharge of wastewater in Fiscal Year 2002 was 292,401 KGAL. The maximum monthly consumption was 49,896 KGAL in March 2002 and the minimum monthly consumption was 14,637 KGAL in November 2001.

### J3.5 Secondary Metering

There are currently no requirements for secondary metering. However, the Base may in the future require secondary meters for internal billings of their reimbursable customers, utility usage management, and conservation monitoring. The Contractor shall assume full ownership and responsibility for existing and future secondary meters IAW Paragraph C.3. No metering plan included with this system.

#### J3.5.1 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 J3.6 below.

**TABLE 5**  
Existing Secondary Meters  
Wastewater System Andrews AFB

Meter Location	Meter Description
None	

### J3.5.2 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 J3.6 below.

**TABLE 6**  
New Secondary Meters  
Wastewater System Andrews AFB

Meter Location	Meter Description
None	

### J3.6 Monthly 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:

*Name:* Contracting Officer  
*Address:* 89th Contracting Squadron  
1419 Menoher Drive  
Andrews AFB, MD 20762-6500  
*Phone number:* (301) 981-6509

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:

*Name:* Deputy Chief of Operations  
*Address:* 89 CES/CEOD  
3465 North Carolina Avenue  
Andrews AFB, MD 20762-6500  
*Phone number:* (301) 981-7416

3. Meter Reading Report. The monthly meter reading report shall show the current and previous month readings for all 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:

*Name:* Deputy Chief of Operations  
*Address:* 89 CES/CEOD  
3465 North Carolina Avenue

Andrews AFB, MD 20762-6500

Phone number: (301) 981-7416

### J3.7 Infiltration and Inflow (I&I) Projects

IAW C.3, Utility Service Requirement, no projects have been implemented by the Government for managing I&I. The Government has funded a project to investigate I&I; however, no results are anticipated prior to proposal evaluation.

### J3.8 Service Area

IAW Paragraph C.4, Service Area, the service area is defined as all areas within the boundaries of Andrews AFB, as well as the remotely located Brandywine Receiver Site, and the Davidsonville Transmitter Site.

### J3.9 Off-Installation Sites

The off-installation sites described as Brandywine Receiver Site and Davidsonville Transmitter Site are included in the sale of the Andrews AFB water distribution system. Specific information on these sites is included in the above sections.

### J3.10 Specific Transition Requirements

IAW Clause C.13, Transition Plan, **Table 5** lists service connections and disconnections required upon transfer, and **Table 6** lists the improvement projects required upon transfer of the Andrews AFB wastewater collection system.

**TABLE 5**  
Service Connections and Disconnections  
Wastewater System Andrews AFB

Location	Description
None	

### J3.11 Government Recognized System Deficiencies

**Table 6** provides a listing of system improvements that the Government has planned for in the near future. The Government recognizes these improvement projects as current deficiencies associated with the Andrews AFB water distribution system. The Contractor shall make a determination as to the actual need and timing of any and all proposed projects. Capital upgrade projects shall be proposed through the Capital Upgrades and Renewal and Replacement Plan process and will be recovered through Sub-CLIN 0003AB. Renewal and Replacement projects will be recovered through Sub-CLIN 0003AC.

**TABLE 6**  
System Improvement Projects  
*Wastewater System Andrews AFB*

<b>Project Location</b>	<b>Project Description</b>
Andrews AFB	Septic Tank Bypass at Gate Guard Post at the West Gate, Bldg 1564. The system is expected to require installation of a lift pump and approximately 1300 linear feet of force main.
Andrews AFB	Septic Tank Bypass at Gate Guard Post at the North Gate, Bldg 3681. The system is expected to require installation of a lift pump and approximately 410 linear feet of force main.
Andrews AFB	Septic Tank Bypass at Gate Guard Post at the Virginia Gate, Bldg 4502. The system is expected to require installation of a lift pump and approximately 1150 linear feet of force main.