

ATTACHMENT J3

Birmingham IAP (ANG), AL Wastewater System

Table of Contentsi

Birmingham IAP (ANG), AL Wastewater System	1
J3.1 Birmingham IAP (ANG), AL Overview	1
J3.2 Wastewater System Description	1
J3.3 Requirements and Standards	4
J3.4 Current Service Arrangement	4
J3.5 Secondary Metering	5
J3.6 Monthly Submittals	5
J3.7 Infiltration and Inflow (I&I) Projects	5
J3.8 Service Area	5
J3.9 Off-Installation Sites	5
J3.9 Off-Installation Sites	Error! Bookmark not defined.

List of Tables

Fixed Inventory	3
Spare Parts	4
Specialized Vehicles and Tools	4
Manuals and Records	4
Service Connections and Disconnections	6
System Improvement Projects	6

Birmingham IAP (ANG), AL Wastewater System

J3.1 Birmingham IAP (ANG), AL Overview

The 117th Air Refueling Wing, Alabama Air National Guard, is located at the Birmingham International Airport. The airport is located to the north and east of downtown Birmingham near the intersection of interstates I-20 and I-59. Originally subdivided by city streets, the ANG station was recently consolidated into a contiguous site by combining three separate real estate parcels into one.

With its roots in the formation of the Birmingham Flying Club, the unit was first federally recognized as the 135th Observation Squadron, Alabama Air National Guard. Renamed the 106th Observation Squadron in 1928, the unit flew and surveyed air mail routes in Alabama. In 1938, the unit moved to Birmingham International Airport. Called to active duty in 1940, the unit designation was changed to 106th Bombardment Squadron and was involved in the Second World War until its end. In 1951, the squadron was again called to active duty for 21 months during the Korean conflict. The unit was reverted to ANG status and became part of the 117th Tactical Reconnaissance Wing. The 117th was called to support the mission during the Berlin crisis in 1961.

In 1990 the unit was deployed to the Middle East in support of both Desert Shield and Desert Storm. Flying RF-4C aircraft, the 117th provided long-range photo reconnaissance along the Kuwait-Iraq border. The 117th returned to Birmingham after successfully completing the mission in December 1990.

In September 1994, the 117th Air Refueling Wing and 106th Air Refueling Squadron was formed and equipped with KC-135 tanker aircraft. Simultaneously, a major revision outlined in the Base Master Plan was initiated to complete improvements in the infrastructure to support the new mission, to unify the existing real estate holdings into one contiguous environ and to implement facility improvements and additions necessary to support the mission. The Master Plan recommendations included the relocation of a city thoroughfare, consolidation of three real estate parcels and the completion of almost \$64 million in facility improvements and construction. To date, all but one of the recommended projects are complete, and it is in the final stages of design.

Birmingham IAP (ANG) consists of approximately 147 acres and essential facilities to support the mission of the 117th ARW and its assigned units. A lease between the Federal Government and The Armory Commission of Alabama, dated 22 January 1961, currently with four Supplemental Agreements, established the initial boundaries and conveyed the lands and buildings for the purpose of military aviation. A Lease Amendment between the Birmingham Airport Authority and the Commission in 1988 established the real estate relationship between the airport authority and the Armory Commission. The lease term expires in the year 2036 but shall continue year to year without notice unless terminated by the Commission.

Prior to 1996, the base was bisected by two city streets - East Lake Blvd and Shelby Blvd. As a part of the Master Plan update, East Lake Blvd was rerouted around the base perimeter, Shelby Blvd was transferred to the ANG with a lease amendment, and the individual land parcels were consolidated

into one tract of land. This consolidation greatly improved internal traffic circulation, security and unit operations. Prior to the road relocation, this area was in a municipal environment with the utilities routed along the city street easements and rights of way. Sewer and water mains are presently along the main street thoroughfare and each facility or small group of facilities are connected to the mains by branch connections or laterals. Individual water meters are installed to meter usage at one or multiple buildings on the base.

The 117th ARW occupies 101 facilities including offices, mission support structures, maintenance hangars, POL storage and refueling station and a Joint Hospital. The Wing currently has 9 authorized KC-135 Stratotankers. The current compliment of personnel is 275, including military and civilian employees. This expands to 1,243 personnel for UTA weekends and during activation.

The Alabama Army National Guard (ARNG) has facilities and units co-located on the base. These facilities provide for aircraft hangar and maintenance, the 109th Evacuation Hospital and OMS storage facility. The 109th Evac Hospital also supports ARNG/ANG weekend drill activities and unit activations. In addition, the Federal Aviation Administration has two radar sites within the confines of the base.

The Federal Aviation Administration and the ARNG facilities and units are not included as part of this evaluation.

J3.2 Wastewater System Description

J3.2.1 Wastewater System Fixed Equipment Inventory

The Birmingham IAP (ANG), AL 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.

J3.2.1.1 Description

The Birmingham IAP (ANG) sanitary wastewater system is a gravity collection system having a main sewer line with two branch networks. Originally installed by a local municipality, the main sewer line transits the base under what was previously a city street. The ANG was permitted connections and laterals as buildings were acquired or included in the inventory of base facilities. In the 1994 Master Plan, this city street was transferred along with the Real Estate to the ANG to consolidate numerous land holdings into one contiguous parcel. The construction of sewer line extensions to support the new facilities was completed under this plan. The gravity sewers are a continuation and the upper reach of an existing sewer network that ultimately discharges unmetered to the Jefferson County Environmental Services treatment facilities. The daily average flow (based on 85% capture of water consumption) is 16,000 gallons per day.

The sewer system is composed of concrete and vitreous clay pipe (VCP) that varies in size from 4" to 12". The majority of the main trunk system was constructed in 1938. Some additions were

constructed to support the new facilities in the approved Master Plan of 1994. Individual facilities are connected by 4” diameter laterals to the sewer main. The branch sewer lines are 8” VCP, which intercept the main sewer at a series of manholes. The sewer size increases ultimately to 12” diameter prior to exiting the base property.

Two short sections of sewer in the upper ends of the network support the Army National Guard and Federal Aviation Administration facilities co-located on the base. These sections are included in the system inventory.

The overall system inventory is approximately 12,400 linear feet of sewer pipe with 61 manholes. There are 5 oil/water separators that are maintained by the unit through maintenance service contracts and not included in the evaluation. Inspections and system condition reports are limited to repair events. Breaks or repairs are confined to accidental damages or the result of digging operations. Historically, only one sewer break has occurred since transfer of the real estate under the Master Plan. In 1997, a 500-foot section was cleaned, video inspected and repaired as a result of sand infiltration caused by a sewer break during construction.

J3.2.1.2 Inventory

Table 1 provides a general listing of the major wastewater system fixed assets for the Birmingham IAP (ANG), AL wastewater system included in the purchase. The system will be sold in a “as is, where is” condition without any warrant, representation, or obligation on the part of the Government to many any alterations, repairs, or improvements. All ancillary equipment attached to and necessary for operating the system, though not specifically mentioned here-in, is considered part of the purchased utility.

TABLE 1
 Fixed Inventory
 Wastewater Utility System Birmingham IAP (ANG), AL

QTY	UNIT	DESCRIPTION	AGE
1,740	LF	Drage & sewage pipg.,vc,C-2000,premium jt,8" diam	1
340	LF	Drage & sewage pipg.,vc,C-2000,premium jt,8" diam	25
1,000	LF	Drage & sewage pipg.,vc,C-2000,premium jt,10"diam	1
840	LF	Drage & sewage pipg,vc,C-2000,premium jt,12"diam	1
2,490	LF	Wtr distr pipg,ductile iron cl 250,mech jt,6" diam	49
640	LF	Wtr distr pipg.,ductile iron cl 250,mech jt,8"diam	45
1,742	LF	Wtr distr pipg.,ductile iron cl 250,mech jt,10"diam	44
570	LF	Wtr distr pipg,ductile iron cl 250,mech jt,12"diam	44
2,350	LF	Drage and sewage piping,,PVC,plain,4" diam	44
670	LF	Wtr distr pipg.,ductile iron cl 250,mech jt,4"diam	1
18	EA	Manhole/catch basin, concrete, precast,4' ID riser,8' deep	15
21	EA	Manhole/catch basin, concrete, precast,4' ID riser,8' deep	50
9	EA	Manhole/catch basin, concrete, precast,4' ID riser,8' deep	69
11	EA	Manhole/catch basin, concrete, precast,4' ID riser,8' deep	74
2	EA	Manhole/catch basin, concrete, precast,4' ID riser,8' deep	33

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 Birmingham IAP (ANG), AL

Qty	Item	Make/Model	Description	Remarks
NONE				

TABLE 3
 Specialized Vehicles and Tools
Wastewater System Birmingham IAP (ANG), AL

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 Birmingham IAP (ANG), AL

Qty	Item	Description	Remarks
			Records are property of Jefferson County and may not be available for this effort

J3.3 Requirements and Standards

The service requirements and standards for the Birmingham IAP (ANG), AL wastewater collection system are as defined in the Section C, *Description/Specifications/Work Statement*.

J3.4 Current Service Arrangement

Birmingham IAP (ANG) purchases its sewer service and treatment from Jefferson County Environmental Service. The cost of treatment service is included at a pre-established rate based on water consumption and included in the water billing. The daily average flow (based on 85% capture of water consumption) is 16,000 gallons per day.

The rates and terms and conditions are established by a Board that is appointed by County officials.

J3.5 Secondary Metering

There are currently no requirements for secondary metering of wastewater included in this contract. Any future wastewater secondary metering requested by the Government will be IAW C.3, Future Secondary Meters.

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 25th of each month for the previous month. Invoices shall be submitted to the address to be identified at time of award.
2. Outage Report. The Contractor's monthly outage report (blockage and overflow information) will be prepared in the format proposed by the Contractor and accepted by the Contracting Officer. Outage reports shall be submitted by the 25th of each month for the previous month. Outage reports shall be submitted to the address to be identified at time of award.
3. Infiltration and Inflow Report. If required by Clause C.3, the Contractor shall submit a Infiltration and Inflow report in a format proposed by the Contractor and accepted by the Contracting Officer. System efficiency reports shall be submitted by the 25th of each month for the previous month. System efficiency reports shall be submitted to the address to be identified at time of award.

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

IAW C.3, Utility Service Requirement, the Government has NOT implemented any projects for managing and monitoring I&I, but this is an on-going effort by Jefferson County.

J3.8 Service Area

IAW Clause C.4, Service Area, the service area is defined as all areas within the Birmingham IAP (ANG), AL boundaries.

J3.9 Off-Installation Sites

No off-installation sites are included in the sale of the Birmingham IAP (ANG), AL wastewater collection system.

J3.9 Off-Installation Sites

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 Birmingham IAP (ANG), AL wastewater collection system.

TABLE 5
Service Connections and Disconnections
Wastewater System Birmingham IAP (ANG), AL

Location	Description
NONE	

TABLE 6
System Improvement Projects
Wastewater System Birmingham IAP (ANG), AL

Project Location	Project Description
NONE	