

ATTACHMENT J3

Barnes ANGB Water Distribution System

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J3 Barnes ANGB Water Distribution System

J3.1 Barnes ANGB Overview

Barnes ANGB is located at the Westfield-Barnes Municipal Airport, in western Massachusetts. The Base is located on 180 acres in two parcels of land leased from the City of Westfield, and has 49 buildings occupying a total of more than 304,238 square feet.

Barnes ANGB is the headquarters of the 104th Fighter Group, and currently employs approximately 330 full-time personnel during weekday shifts. In addition, the Base supports over 1,000 traditional part-time Air National Guard personnel.

The National Guard Bureau authorized the original unit that became the 131st Fighter Squadron in late 1946. The Squadron received its first aircraft, P-47 Thunderbolts, in 1947, when the Base was established at the northwest corner of the Westfield Municipal Airport. Conversion to Group status took place in 1956 with the formation of the 104th Fighter Group. In 1961, the 104th was called to active duty in France to support the Berlin Airlift for 1 year.

Over the years, several different types of aircraft have been assigned to the Base. The original P-47s were replaced with P-51 Mustangs in 1950. The 131st Fighter Squadron received its first jet, the F-94 Starfire, by 1954. It subsequently received F-86 Sabrejets in 1957, F-84 Thunderstreaks in 1964, F-100 Supersabres in 1971, and, in 1979, the A-10A Thunderbolt II aircraft that are still assigned to the Base today.

Projected future mission requirements have necessitated the renovation or demolition of older facilities and the construction of new facilities. The Barnes ANGB Capital Improvements Program (CIP) emphasizes consolidating existing facilities and maximizing their utilization as much as possible. Over the next 5 years, key projects planned for Barnes ANGB, if implemented, will increase the total square footage of buildings and facilities on Base by approximately 3 percent.

J3.2 Water Distribution System Description

J3.2.1 Water Distribution System Fixed Equipment Inventory

The Barnes ANGB water distribution system consists of all appurtenances physically connected to the distribution system from the point in which the distribution system enters the Installation and Government ownership currently starts to the point of demarcation, defined by the Right of Way. The system may include, but is not limited to, pipelines, valves, fire hydrants, storage facilities, exterior backflow devices, pumps, and meters. The actual inventory of items sold will be in the bill of sale at the time the system is transferred. The following description and inventory is included to provide the Contractor with 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 its 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 charge adjustments based on the accuracy of the following description and inventory.

Specifically excluded from the water distribution system privatization are:

- Approximately 150 linear feet of water distribution line owned by the City of Westfield on the west side of the base which connects to Building 028.
- Backflow preventers
- Irrigation systems

J3.2.1.1 Description

The City of Westfield supplies potable water to Barnes ANGB to satisfy potable, irrigation, and industrial requirements.

Water is supplied to the Base through three City-metered connections. The primary installation, west of runway 02/20, is where the 8-inch Barnes ANGB main connects to the City's 12-inch main near the intersection of Falcon Drive and Thunderstreak Road. A second connection serves the Munitions Complex . This connection is east of runway 02/20, via a 40 foot wide utility and roadway easement and is connected to the City main on Munitions Road. In addition Building 028 is metered separately by the City. The water distribution system consists of ductile iron, copper, and polyvinyl chloride (PVC) pipe that is owned by Barnes ANGB. The water lines are approximately three to six feet below grade. Tracer wire is not installed with the PVC pipe.

Local contractors, on an as-needed basis, perform maintenance of the Barnes ANGB's water system. The City owns, maintains, and reads the three water meters. The Base fire department flushes the fire hydrants. The City provides water treatment. No future major construction, maintenance, repair, or replacement projects are planned.

Barnes ANGB water system is currently near capacity.

J3.2.1.2 Inventory

Table 1 provides a general listing of the major water distribution system fixed assets for the Barnes ANGB water distribution system included in the sale.

TABLE 1
Fixed Inventory
Water Distribution System Barnes ANGB

Item	Size	Quantity	Unit	Approximate Year of Construction
Copper pipe	¾ -in.	310	LF	1955
	1-in.	130	LF	1955
	1¼ -in.	100	LF	1955
	2-in.	545	LF	1955

TABLE 1
Fixed Inventory
Water Distribution System Barnes ANGB

Item	Size	Quantity	Unit	Approximate Year of Construction
	3-in.	415	LF	1955
Ductile iron pipe	4-in.	160	LF	1996
	6-in.	3,072	LF	1992
	6-in.	610	LF	1995
	8-in.	8,962	LF	1996
	12-in.	1,660	LF	1996
PVC pipe	2-in.	350	LF	2002
Cast iron gate valve	1-in.	1	EA	1996
	2-in.	5	EA	1996
	2-in.	1	EA	2002
	3-in.	4	EA	1996
	4-in.	1	EA	1996
	6-in.	22	EA	1996
	8-in.	32	EA	1996
Meter Vault	10'x10'x6' (est.)	1	EA	1996
Meter	2-in.	1	EA	1996
Fire hydrants		38	EA	1996

Notes:

EA = each

in. = inch

LF = linear feet

PVC = polyvinyl chloride

J3.2.2 Water Distribution System Non-Fixed Equipment and Specialized Tools

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, vehicles, and tools prior to submitting a bid. Offerors shall make their own determination of the adequacy of all equipment, vehicles, and tools.

TABLE 2
Spare Parts
Water Distribution System Barnes ANGB

Qty	Item	Description	Make/Model	Remarks
There are no spare parts included with the system to be privatized.				

TABLE 3
Specialized Vehicles and Tools
Water Distribution System Barnes ANGB

Qty	Description	Location	Maker
There are no specialized vehicles or tools included with the system to be privatized.			

J3.2.3 Water Distribution System Manuals, Drawings, and Records

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

TABLE 4
Manuals, Drawings, and Records
Water Distribution System Barnes ANGB

Qty	Item	Description	Remarks
2 ea	Drawings	Utility Plans/Water System	Located in the Engineering Office
7 ea	Drawings	Repair/Alter Water Distribution System	Located in the Engineering Office
1 box	Project Files	Upgrade Water Distribution System	Located in Box 154, Building 1 Archives

J3.3 Specific Service Requirements

The water utility system at Barnes ANGB is currently classified by the Massachusetts Department of Environmental Protection (DEP) as a distribution system and does not require a DEP water supply system permit. The DEP has indicated that the new owner of the water utility system would be required to notify the DEP of a change in ownership, and may be required to obtain transfer of ownership approval or amend an existing permit to include the distribution system, depending on the specifics of the sale. The DEP has also indicated that the regulatory approval process for a transfer of ownership of a water utility system takes approximately one month.

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

- The Contractor shall enter into a Memorandum of Understanding with the Barnes ANGB Fire Department for fire protection of all facilities included in the purchase of the utility. The Memorandum of Understanding shall be completed during the transition period and a copy provided to the Contracting officer.
- The Contractor shall abide by Barnes ANGB fire protection requirements. The utility system purchased by the Contractor includes a meter vault facility. This facility may or may not include fire alarm systems. Where required by federal, state or local regulations, the Contractor shall maintain the fire alarm system for all facilities owned and operated by the Contractor. The Contractor shall permit Fire Department personnel access to their facilities to perform fire inspections and emergency response.

J3.4 Current Service Arrangement

Barnes ANGB currently acquires water from the City of Westfield.

Barnes ANGB annual water consumption for FY 2002 was approximately 3,500 kGal, averaging 300 kGal per month and 10 kGal per day.

J3.5 Secondary Metering

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 for all secondary meters IAW Paragraph C.3 and J3.6 below.

TABLE 5
Existing Secondary Meters
Water Distribution System Barnes ANGB

Meter Location	Meter Description (Type)
NCO Club	2-in. Meter

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
Water Distribution System Barnes ANGB

Meter Location	Meter Description
There are no new secondary meters required for the system to be privatized.	

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:

Name: 104 FW/CE
Address: 175 Falcon Drive
 Westfield, MA 01085-1482

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 25th of each month for the previous month. Outage reports shall be submitted to:

Name: 104 FW/CE
Address: 175 Falcon Drive
 Westfield, MA 01085-1482

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 15th of each month for the previous month. Meter reading reports shall be submitted to:

Name: 104 FW/CE
Address: 175 Falcon Drive
 Westfield, MA 01085-1482

J3.7 Water Conservation Projects

IAW Paragraph C.3, Utility Service Requirement, the following projects have been implemented by the Government for conservation purposes.

- There are no water conservation projects associated with the system to be privatized.

J3.8 Service Area

IAW Paragraph C.4, Service Area, the service area is defined as all areas within the Barnes ANGB boundaries.

J3.9 Off-Installation Sites

No off-installation sites are included in the sale of the Barnes ANGB water distribution system.

J3.10 Specific Transition Requirements

IAW Paragraph C.13, Transition Plan, **Table 7** provides a listing of service connections and disconnections required upon transfer.

TABLE 7
Service Connections and Disconnections
Water Distribution System Barnes ANGB

Location	Description
There are no service connections or disconnections for the system to be privatized.	

J3.11 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 Barnes ANGB water distribution 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
Water Distribution System Barnes ANGB

Project Location	Project Description
There are no government-recognized deficiencies for the system to be privatized.	