

BURLINGTON IAP (ANG) Wastewater Collection System

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J12 BURLINGTON IAP (ANG)

Wastewater Collection System

J12.1 BURLINGTON IAP (ANG) Overview

Burlington IAP (ANG) is located inside the city limits of Burlington, Vermont. Burlington is approximately 45 miles northwest of Montpelier, which is the capital of Vermont. The Vermont ANG host unit is the 158th Fighter Group. The base is 223 acres in size, which is leased land from the City of Burlington. There are a total of 40 facilities on base, 19 industrial, 18 administrative and 3 services with no family housing. Current base population is approximately 400 personnel during non-drill duty days and increases to approximately 1000 personnel on a drill duty weekend that occurs once per month.

Future expansion plans (not yet finalized) include the demolition of three structures and construction of two maintenance facilities. It is anticipated that there will be a net gain of approximately 30,000 square feet in facilities.

J12.2 Wastewater Collection System Description

J12.2.1 Wastewater Collection System Fixed Equipment Inventory

The BURLINGTON IAP (ANG) wastewater collection system consists of all appurtenances physically connected to the collection system from the point of demarcation defined by the Right of Way. The system may include, but is not limited to, pipelines, manholes, lift stations, valves, controls, treatment plants, 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 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 wastewater collection system privatization are:

- Oil Water Separators
- Grease Traps
- Septic tanks and leach fields

J12.2.1.1 Description

The Burlington IAP (ANG) wastewater collection system has a combination of gravity and forced sanitary sewer mains with approximately 13 brick and 24 pre-cast concrete manholes and four lift stations. The gravity sewers are constructed of vitrified clay piping (approximately 1,645 LF), PVC (approximately 6,600 LF), and cast iron piping (approximately 542 LF) which is 1.5 inches to 10

inches in diameter. The forced main sewers are constructed of PVC (approximately 2,121 LF), and cast iron pipe (approximately 1,410 LF) which is 1.5 inches to 6 inches in diameter. The dates of construction range from 1952 to 1999. Manholes are adequately spaced with a depth range of four to eight feet. The system has a 6 inch force main exiting the base.

J12.2.1.2 Inventory

Table 1 provides a general listing of the major wastewater collection system fixed assets for the BURLINGTON IAP (ANG) wastewater collection system included in the sale.

TABLE 1
Fixed Inventory
Wastewater Utility System BURLINGTON IAP (ANG)

Item	Size (in.)	Quantity	Unit	Approximate Year of Construction
PIPING				
PVC Pipe	4"	400	LF	1995
PVC Pipe	4"	630	LF	1985
PVC Pipe	4"	91	LF	1978
PVC Pipe	6"	1325	LF	1996
PVC Pipe	6"	971	LF	1993
PVC Pipe	6"	560	LF	1992
PVC Pipe	8"	225	LF	1997
PVC Pipe	8"	285	LF	1992
PVC Force Main	1.5"	432	LF	1992
PVC Force Main	1.5"	834	LF	1987
PVC Force Main	4"	855	LF	1995
Vitrified Clay Pipe	6"	116	LF	1957
Vitrified Clay Pipe	6"	54	LF	1952
Vitrified Clay Pipe	8"	345	LF	1973
Vitrified Clay Pipe	8"	790	LF	1957
Vitrified Clay Pipe	10"	340	LF	1953
Cast Iron Pipe	4"	130	LF	1985
Cast Iron Pipe	4"	75	LF	1978
Cast Iron Pipe	6"	72	LF	1982
Cast Iron Pipe	8"	265	LF	1982

Item	Size (in.)	Quantity	Unit	Approximate Year of Construction
Cast iron force main	6"	1410	LF	1973
Cement Asbestos Pipe	8"	860	LF	1973
Standard Sanitary Sewer Manholes				
Brick Construction	4'	1	EA	1957
Brick Construction	6'	2	EA	1957
Brick Construction	7'	10	EA	1957
Pre-Cast Concrete	6'	2	EA	1996
Pre-Cast Concrete	6'	4	EA	1995
Pre-Cast Concrete	6'	4	EA	1992
Pre-Cast Concrete	7'	1	EA	1999
Pre-Cast Concrete	7'	1	EA	1997
Pre-Cast Concrete	7'	5	EA	1993
Pre-Cast Concrete	7'	1	EA	1986
Pre-Cast Concrete	7'	1	EA	1982
Pre-Cast Concrete	8'	1	EA	1999
Pre-Cast Concrete	8'	1	EA	1997
Pre-Cast Concrete	8'	3	EA	1973
Wastewater Lift/Pump Station				
(2) 15hp 200 gpm pumps, (2ea: 7'dia. wetwells)	14' deep	1	EA	1973
(2) 2hp 25 gpm pumps, (1 ea: 6' wetwell)	7'x7'x8'	1	EA	1992
(2) 2 hp 85 gpm pumps	7'x7'x8'	1	EA	1995
(2) 2 hp 25 gpm pumps	7'x7'x8'	1	EA	1987
Secondary Meter, Magnaflow, Inlet/Outlet diameter 6", 200 gpm		1	EA	1973

Notes:

PVC = Polyvinyl Chloride

LF = Linear Feet

EA = Each

Gpm = Gallons per Minute

J12.2.2 Wastewater Collection 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
Wastewater Collection System BURLINGTON IAP (ANG)

Qty	Item	Make/Model	Description	Remarks
None				

TABLE 3
Specialized Vehicles and Tools
Wastewater Collection System BURLINGTON IAP (ANG)

Description	Quantity	Location	Maker
None			

J12.2.3 Wastewater Collection 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
Wastewater Collection System BURLINGTON IAP (ANG)

Qty	Item	Description	Remarks
1	1	Utility System Maps (electronic copy)	AutoCAD Version 2000

J12.3 Specific Service Requirements

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

J12.4 Current Service Arrangement

Provider Name: Champlain Valley Water District

Annual Amount Generated: 49,200 cubic feet or 368,016 gallons

Quarterly fluctuations:

- Low - 5,850 cubic feet or 43,758 gallons/quarter
- High - 17,500 cubic feet or 130,900 gallons/quarter
- Wastewater is billed based on water consumption

J12.5 Secondary Metering

TABLE 5

Existing Secondary Meters

Wastewater Collection System *Burlington IAP (ANG)*

Meter Location	Meter Description
In the manhole adjacent to the lift station	3 Phase, Kilowatt Hour

J12.6 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 person identified at time of contract 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 person identified at time of contract award.
3. Infiltration and Inflow Report. If required by Paragraph C.3, the Contractor shall submit an 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 person identified at time of contract award.

J12.7 Infiltration and Inflow (I&I) Projects

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

None

J12.8 Service Area

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

J12.9 Off-Installation Sites

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

J12.10 Specific Transition Requirements

IAW Paragraph C.13, Transition Plan, **Table 6** provides a listing of service connections and disconnections required upon transfer.

TABLE 6

Service Connections and Disconnections
Wastewater Collection System BURLINGTON IAP (ANG)

Location	Description
Manhole adjacent to lift station	Repair existing secondary wastewater meter

J12.11 Government Recognized System Deficiencies

Table 7 provides a listing of system improvements that the Government has planned. The Government recognizes these improvement projects as representing current deficiencies associated with the BURLINGTON IAP (ANG) 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 AB.

TABLE 7
System Deficiencies
Wastewater Collection System BURLINGTON IAP (ANG)

Project Location	Project Description
Bldg 319 (EOD Bldg)	Replace 200 feet of 4" PVC wastewater pipe which connects Bldg-319 to a manhole approximately 200 feet away