

Charlotte/Douglas IAP Wastewater Collection System

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J4 Charlotte/Douglas IAP Wastewater Collection System

J4.1 Charlotte/Douglas IAP Overview

Charlotte/Douglas International Airport (IAP) is located six miles west of Charlotte, NC and is home to the 145th Airlift Wing. The base is located on the east side of the airport on a 79 acre parcel of highly developed land. There are a total of 41 buildings; 2 administrative, 3 services, and 36 industrial, amounting to approximately 330,000 square feet. The base has no residential or transient housing facilities. Action is now pending to acquire an additional 24 acres from the City of Charlotte for future expansion. Day-to-day activities are managed by 312 full-time personnel. This increases to 1350 personnel during the unit training drills conducted one weekend each month. The base also has two geographically separated units (GSU); Badin Air Guard Station (AGS), and Stanly County Airport Regional Training Center that are located approximately 60 miles northeast of Charlotte ANGB. The GSUs are not part of this solicitation. Projected future mission requirements and a steady increase in the base population have necessitated the construction of new facilities and the renovation or demolition of older facilities. A base supply warehouse (34,700 SF) is planned for construction in 2001.

J4.2 Wastewater Collection System Description

J4.2.1 Wastewater Collection System Fixed Equipment Inventory

The Charlotte/Douglas IAP 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, and pumps. 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, Leach Fields
- ?? Pre-Treatment Systems

J4.2.1.1 Description

Charlotte/Douglas IAP base wastewater collection system consists of wastewater gravity piping, force main piping, and is aided by one internal lift station on the base. The system consists of

approximately 4000 linear feet of PVC piping, 800 linear feet of cast iron piping, 100 linear feet of ductile iron piping, and 4900 linear feet of vitrified clay pipe. Pipe diameters range from 2 to 12 inches. Pipes are buried between 3 and 8 feet deep with an average depth of 4 feet. No marking tape or tracer wire was used. There are 32 brick and 17 precast concrete manholes 6 to 8 feet in depth. The City of Charlotte provides wastewater treatment. Base personnel indicate the current capacity is adequate and sufficient to meet the planned expansion of base facilities.

J4.2.1.2 Inventory

Table 1 provides a general listing of the major Wastewater Collection System fixed assets for the Charlotte/Douglas IAP Wastewater Collection System included in the sale.

TABLE 1
Fixed Inventory
Wastewater Utility System Charlotte/Douglas IAP

Item	Size (in.)	Quantity	Unit	Approximate Year of Construction
PVC Pipe				
	2	525	LF	1988
	4	2016	LF	1988
	6	1145	LF	1992
PVC Pipe (Force Main)	2	320	LF	1992
Cast Iron Pipe				
	4	430	LF	1973
	5	80	LF	1960
	6	170	LF	1993
	12	165	LF	1960
Ductile Iron Pipe				
	8	85	LF	1984
Vitrified Clay Pipe				
	6	225	LF	1986
	8	4665	LF	1968
Standard Sanitary Sewer Manhole				
	Depth (ft)			
Brick	6	2	EA	1956
Brick	6	4	EA	1957
Brick	6	4	EA	1958
Brick	6	4	EA	1959
Brick	6	4	EA	1960
Brick	8	2	EA	1956

Item	Size (in.)	Quantity	Unit	Approximate Year of Construction
Brick	8	4	EA	1957
Brick	8	3	EA	1958
Brick	8	3	EA	1959
Brick	8	2	EA	1960
Precast	6	1	EA	1974
Precast	6	3	EA	1977
Precast	6	2	EA	1982
Precast	6	3	EA	1984
Precast	6	2	EA	1986
Precast	8	2	EA	1984
Precast	8	2	EA	1986
Precast	8	2	EA	1993
Wastewater Lift Station		1	EA	1992
Submersible Pump, 3.5 hp, 2500 gpm	NA	1	EA	1992

Notes:

PVC = Polyvinyl Chloride

LF = Linear Feet

EA = Each

In = inches

Ft = feet

J4.2.2 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 Charlotte/Douglas IAP

Qty	Item	Make/Model	Description	Remarks
None				

TABLE 3
Specialized Vehicles and Tools
Wastewater Collection System Charlotte/Douglas IAP

Description	Quantity	Location	Maker
None			

J4.2.3 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 Charlotte/Douglas IAP

Qty	Item Description	Remarks
1	Wastewater Utility System Maps (electronic copy)	AutoCAD Release Version 14

J4.3 Specific Service Requirements

The service requirements for the Charlotte/Douglas IAP Wastewater Collection System are as defined in the Section C Description/Specifications/Work Statement.

J4.4 Current Service Arrangement

- ?? Provider Name: City of Charlotte
- ?? Average Annual Usage: 1,780,000 gallons in 2000
- ?? Maximum Monthly Use: 400,000 gallons
- ?? Minimum Monthly Use: 100,000 gallons
- ?? Wastewater charges are calculated as 1.5 times the water consumption

J4.5 Secondary Metering

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 J6.6 below.

TABLE 6
 New Secondary Meters
 Water Distribution System Charlotte/Douglas IAP

Meter Location	Meter Description
None	

J4.6 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.

J4.7 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

J4.8 Service Area

IAW Paragraph C.4 Service Area, the service area is defined as all areas within the Charlotte/Douglas IAP boundaries.

J4.9 Off-Installation Sites

No off-installation sites are included in the sale of the Charlotte/Douglas IAP Wastewater Collection System.

J4.10 Specific Transition Requirements

IAW Paragraph C.13 Transition Plan, **Table 5** provides a listing of service connections and disconnections required upon transfer.

TABLE 5
 Service Connections and Disconnections
 Wastewater Collection System Charlotte/Douglas IAP

Location	Description
None	

J4.11 Government Recognized System Deficiencies

Table 6 provides a listing of system improvements that the Government has planned. The Government recognizes these improvement projects as representing current deficiencies associated with the Charlotte/Douglas IAP 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 Renewals and Replacements Plan process and will be recovered through Schedule L-3. Renewal and replacement projects will be recovered through Sub-CLIN AB.

TABLE 6
 System Deficiencies
 Wastewater Collection System Charlotte/Douglas IAP

Project Location	Project Description
None	