

KANNAPOLIS



Fire Hydrant Use Policy



Date:

Revisions:

Fire Hydrant Use Policy

Section 1: Purpose of Hydrant Policy

Section 2: Definitions

Section 3: Fire Hydrant Use Requirements

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Section 1: Purpose of Hydrant Policy

It is the Policy of the City of Kannapolis, North Carolina that the opening and closing, tampering, connecting to, or withdrawal of water from any publicly owned or privately owned fire hydrant connected to the City water system is expressly prohibited, except with the terms of this Policy. Authorized withdrawal of water from any City fire hydrant defined above is strictly limited to the following persons and purposes:

- a) Fire fighting activities by personnel of the City of Kannapolis Fire Department, and by other Fire Department personnel through Mutual Aid Agreements that provide fire protection services within a jurisdiction served by City fire hydrants
- b) Fire fighting training activities by the City of Kannapolis Fire Department, or by other Fire Departments as approved by the Director of Public Works.
- c) Testing operations by personnel of the City of Kannapolis to establish the flow rate of water available from fire hydrants and to develop data needed for fire insurance or engineering evaluations on the effectiveness of the system.
- d) Water flushing and collection operations by personnel of the City of Kannapolis for improving or determining the quality of water in the System, or to minimize the possibility of any impurities remaining in the System from breaks, leaks or repairs
- e) Water withdrawal by personnel of the City of Kannapolis for any use deemed necessary by the Director of Public Works.
- f) Water withdrawal through a Construction Hydrant Meter approved by the Director of Public Works for a Construction Hydrant Meter Account Customer as defined in Section 4 of this Policy
- g) Water withdrawal through one of five designated City fire hydrants approved by the Director of Public Works for a permitted Fire Hydrant Use Account Customer as defined in Section 5 of this Policy
- h) Other uses only as expressly authorized in writing in advance by the Director of Public Works

Section 2: Definitions

For the purpose of this Fire Hydrant Use Policy, the following definitions shall apply:

- **Air Gap Separation** - An unobstructed vertical distance through the atmosphere between the lowest opening from any pipe supplying water from any source to a tank or other device and the flood level rim of the receptacle. An approved air gap separation shall be at least twice the diameter of the supply pipe. In no case shall the air gap separation be less than one inch.
- **Applicants** - Any person, firm, partnership, joint venture, association, corporation, group or organization applying for a Hydrant Use Permit.
- **Backflow Administrator** - City of Kannapolis Backflow Administrator or his/her designee
- **Backpressure** - Refers to a condition in which a pump, boiler, or other equipment produces a pressure greater than the water supply pressure
- **Backsiphonage** - Refers to a condition in which the pressure in the distribution system is less than atmospheric pressure, which allows contamination to enter a water system through a cross-connection.
- **Business Day** - Normal operating hours of the City of Kannapolis, excluding holidays
- **City Business License** - Required for any services provided within the City of Kannapolis and can be obtained at City Hall 246 Oak Avenue, Kannapolis, NC 28081, 704-920-4300
- **City Council** - City Council of Kannapolis, North Carolina.
- **City of Kannapolis** - Referred to as "City"
- **Construction Hydrant Meter** - Used to measure flow of water for construction or other temporary uses approved by Backflow Administrator
- **Customer** - Refers to any person or entity having an authorized system usage account with the City of Kannapolis
- **Customer Service Center** - City of Kannapolis Customer Service Center located at 234 Dale Earnhardt Boulevard, Kannapolis, NC 28081, 704-920-4399
- **Director of Public Works** - City of Kannapolis Director of Public Works or his/her designee
- **Public Works Department** - City of Kannapolis Public Works Operation Center located at 1401 Bethpage Road, Kannapolis, NC 28081, 704-920-4200
- **Reduced Pressure Detector Assembly**- An approved, properly functioning assembly containing two, independently acting check valves with a hydraulically operating, mechanical independent pressure differential relief valve located between the check valves and at the same time below the first check valve. The assembly must include properly located test cocks and tightly closing shut-off valves at each end of the assembly
- **Shall** - Is mandatory
- **System** - The City of Kannapolis water supply and distribution system.
- **Tanker** - A vehicle on which a tank is mounted to carry non-potable water for delivery

Section 3: Fire Hydrant Use Requirements

- a) Any customer requesting to withdraw water from a City fire hydrant shall have a valid City of Kannapolis Business License. The customer shall contact the City's Customer Service Center to set up either an account for a Construction Hydrant Meter to be installed on a specific fire hydrant or a Fire Hydrant Use Account to draw water from any of the 5 designated fire hydrants around the City. Fire Hydrant Use Accounts shall require an annual inspection and permit for each tank(er) withdrawing water from the System.

Section 4: Construction Hydrant Meter Accounts

- a) A refundable deposit shall be required for a construction hydrant meter in accordance with the City of Kannapolis Schedule of Rates and Fees. The deposit shall be refunded when the Construction Hydrant Meter is returned and it is determined that the meter has not been damaged. Any outstanding account balances shall be deducted from the deposit. The customer shall be responsible for all damages to a hydrant meter or a stolen meter. All repairs or replacement cost shall be deducted from the deposit.
- b) The Public Works Department shall contact the Construction Hydrant Meter Customer for the exact location required and install the hydrant meter. The Construction Hydrant Meter customers shall be responsible for providing and maintaining an approved RPZ on the hydrant meter.
- c) Any Construction Hydrant Meter found not having a properly maintained and approved RPZ, shall be in violation of Section 7 of this Policy.
- d) The Construction Hydrant Meter shall be read once a month and the water consumption shall be billed per 1,000 gallons at the current water use rate as established by the City Council.
- e) Any customer in arrears shall be considered in violation of Section 7 of this Policy and shall not be allowed to continue drawing water from the City's Construction Hydrant Meter until the account balance has been paid.

Section 5: Fire Hydrant Use Accounts

- a) The Fire Hydrant Use Account customers shall contact the Backflow Administrator at the Public Works Department to inspect that each tank(er) is equipped with an approved air gap or approved Reduced Pressure Detector Assembly and to have the permit sticker applied in the proper location on the tank(er).
- b) The annual permit fee per tank(er) shall be paid at the time a Hydrant Account is established and shall be renewed and inspected for compliance every year.
- c) Water consumption shall be billed per 1,000 gallons, at the current water use rate in accordance of City rate and fee schedules as established by the City Council.
- d) The customer shall be responsible for maintaining accurate consumption records. The Consumption Reports shall be received by the Customer Service Center by the 1st business day of every month. The monthly record shall be provided to the City regardless

of any consumption or not and shall be in violation of Section 7 of this Policy if not received

- e) Any vehicle filling from a construction hydrant shall have a valid City of Kannapolis issued Fire Hydrant Use Permit sticker
- f) Any tank(er) found withdrawing water from a City fire hydrant without a valid City-issued Fire Hydrant Use Permit and valid City Business License shall be in violation of Section 7 of this Policy
- g) The customer shall use only fire hydrants designated by the Director to withdraw water from the System. A map showing the locations of the designated fire hydrants within the City will be given with each Fire Hydrant Use Permit. Additional copies of the map may be obtained at the City's Customer Service Center or the Public Works Operation Center
- h) The customer has the responsibility of operating the designated City fire hydrants in a proper and safe manner to prevent damage to the hydrant and the City's water system Hydrants shall be opened and closed slowly and at no time shall any connections to a City fire hydrant be left unattended.
- i) The customer shall use an approved fire hydrant wrench only Pipe wrenches and adjustable wrenches or other unapproved devices used in the operation of a fire hydrant are strictly prohibited and in violation of Section 7 of this Policy
- j) All hoses shall be disconnected after each use and shall not remain attached to the hydrant.
- k) All nozzle caps shall be replaced after each use
- l) The customer shall be responsible for any damage associated with improper use of a City fire hydrant and shall pay for all repairs or shall be in violation of Section 7 of this Policy
- m) The customer shall be responsible for maintaining his/her backflow protection on each permitted tank(er) and to prevent contamination of the City's water system. The customer shall show proof the backflow assembly has been tested and is up to date
- n) In no instance shall the discharge end of the hose be inserted into the tank or laid on the ground where it could become submerged in any liquid.
- o) Any customer in arrears shall not be allowed to continue to draw water from the City's fire hydrants until the account balance has been paid and shall be considered in violation of Section 7 of this Policy

Section 6: Responsibilities of the City of Kannapolis

- a) The Director of Public Works shall be responsible for enforcing this Policy and to ensure that each customer that is withdrawing water from any of the designated City fire hydrants does so in accordance with this Policy and in a safe and responsible manner to prevent cross contamination.

Section 7: Violations

- a) A written notice shall be served in person or by Certified Mail to any Permit Holder found to be in violation of any part of this Policy

- b) Such notice will explain the violation and give the time period within which the violation must be corrected. The time period set forth shall not exceed 30 days after receipt of notice, unless specified in the notice. If the violation has been determined by the Director of Public Works to be imminent hazard, the customer shall be required to correct the violation immediately or risk having his/her permit revoked.
- c) Any customer connected to the City's System without backflow protection shall be considered illegal and to have an unprotected cross-connection between a private water system and the City's water system. Any such customer shall be considered in violation of this Policy and shall have their permit revoked and permit sticker removed. Violators shall then go through the permit process again and pay all the fees as if they were a new customer. A second violation shall result in a permanent revocation of their permit.
- d) In addition to any applicable charges for usage, a customer violating any part of this Policy shall be liable to the City for expenses incurred for investigating a violation and for the repair of any damage to the City of Kannapolis water system. At the City's discretion, the violator may be prosecuted under North Carolina State General Statute 12-151.1

Section 8: During Water Restrictions

- a) Tanker fill ups may be restricted or suspended at any time in order to protect the City's water supply. Permit holders shall be notified in writing of the current water restrictions and informed of their limitations.

Date

6/14/2010

Approval

Robert D. Frenschmeyer

5.5"

JAN

2010

2011

2012

2013

JUL

KANNAPOLIS

AUG

FEB



SEP

MAR

**HYDRANT
USE PERMIT**

OCT

APR

1001

NOV

MAY

JUN

2014

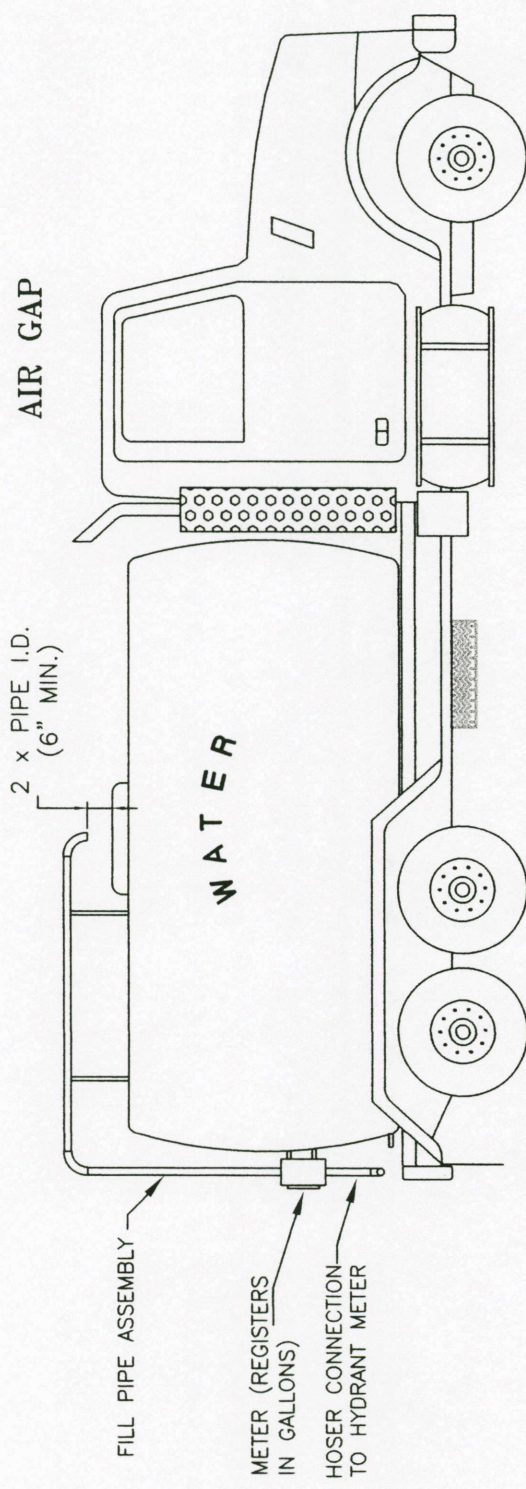
2015

2016

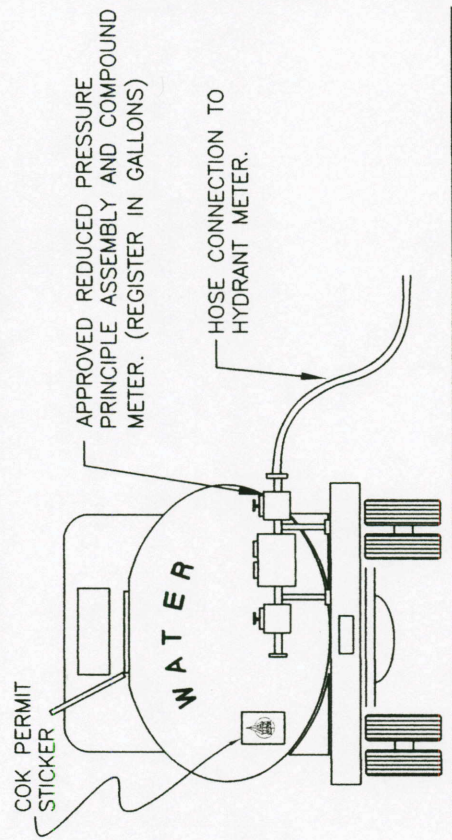
2017

DEC

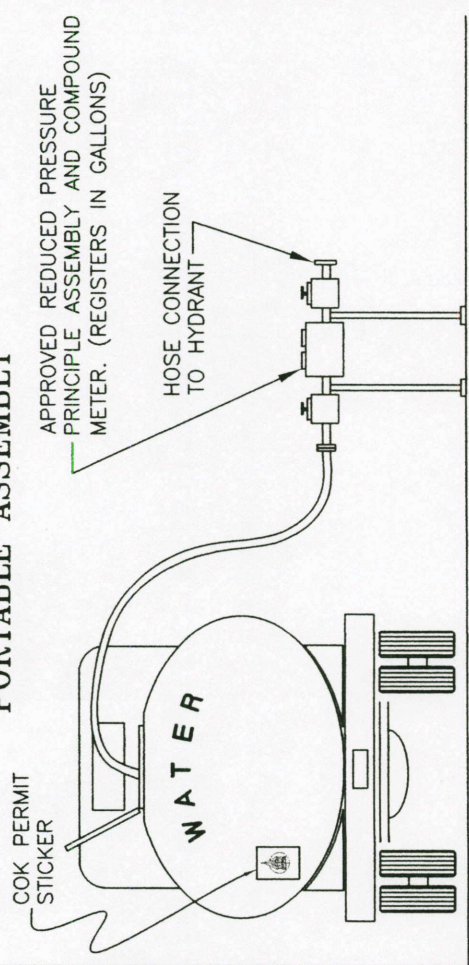
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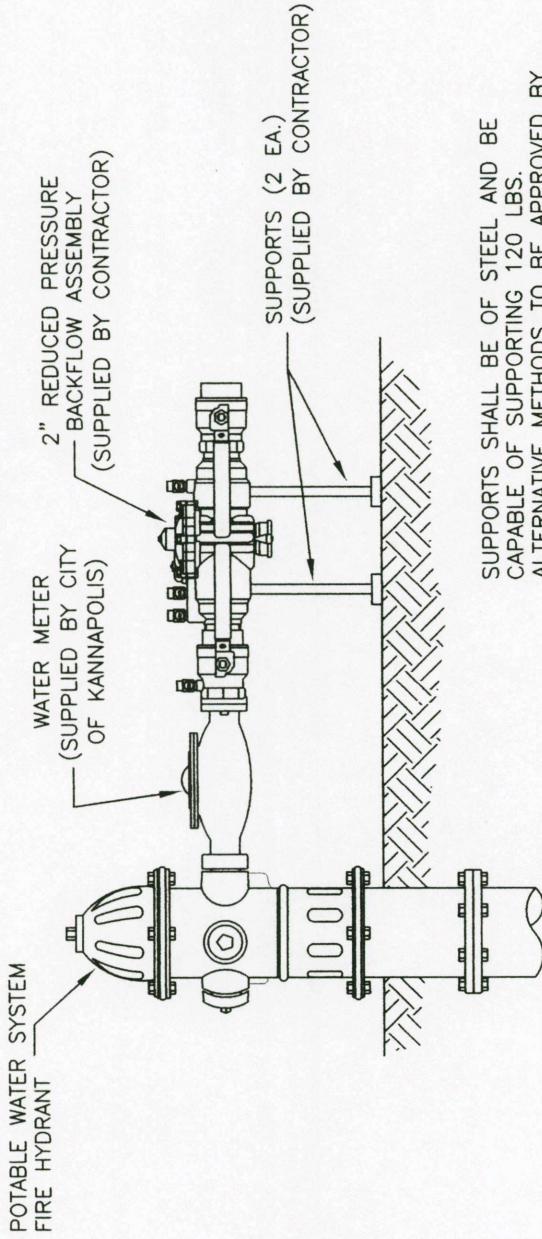
TRUCK MOUNTED ASSEMBLY



PORTABLE ASSEMBLY



MINIMUM PROTECTION FOR FILLING TANKER TRUCK



SUPPORTS SHALL BE OF STEEL AND BE CAPABLE OF SUPPORTING 120 LBS. ALTERNATIVE METHODS TO BE APPROVED BY CITY OF KANNAPOLIS BACKFLOW ADMINISTRATOR.

GENERAL NOTES

1. CONTACT CITY OF KANNAPOLIS FOR LATEST LIST OF APPROVED BACKFLOW PREVENTION ASSEMBLIES AND TESTERS.
2. THE CONTRACTOR MUST INSTALL A REDUCED PRESSURE PRINCIPLE BACKFLOW PREVENTION ASSEMBLY (RP) IMMEDIATELY AFTER THE HYDRANT METER IS SET.
3. BACKFLOW ASSEMBLIES MUST BE TESTED BY A CERTIFIED TESTER PRIOR TO USE.
4. PRIOR TO USE AN INSPECTION BY THE CITY IS REQUIRED FOR ALL HYDRANT METER BACKFLOW PREVENTION ASSEMBLIES.
5. EACH TIME THE HYDRANT METER BACKFLOW PREVENTION ASSEMBLY IS RELOCATED IT MUST BE TESTED.
6. THE CONTRACTOR WILL BE BILLED TO REPLACE AND INSTALL ANY PARTS NOT RETURNED WITH HYDRANT METER.
7. HYDRANT, BACKFLOW ASSEMBLY, AND METER SHALL BE ADEQUATELY INSULATED TO PREVENT FREEZING.

**REDUCED PRESSURE PRINCIPLE
BACKFLOW PREVENTION ASSEMBLY FOR
HYDRANT METERS**



DATE: 21 April 10

W-BF-06

CITY OF KANNAPOLIS, NORTH CAROLINA

SCHEDULE OF RATES, FEES AND CHARGES FOR WATER AND SEWER SERVICE

WATER RATES

	<u>INSIDE CITY</u>	<u>OUTSIDE CITY</u>
Individual water service (less than 2 inch) (note 1)		
* per 1,000 gallons	\$ 5 40	\$ 6 48
* base monthly charge (Note 2)	3 30	3 96
* monthly rate for unmetered service - residential only	41 10	49 32
Private Water Systems (more than one user)		
* per 1,000 gallons based on master meter	5 40	6 48
* base monthly charge per user as determined by number of dwelling units or commercial spaces on site, occupied or vacant	3 30	3 96
Fire Line Service		
* monthly service rate (2 inch)	41 10	49 32

SEWER RATES

Individual Sewer Service		
* per 1,000 gallons water use	5 30	5 30
* base monthly charge	3 80	3 80
* monthly rate for unmetered service - residential only	40 90	40 90
Private Sewer Systems (more than one user)		
* per 1 000 gallons based on master water meter	5 30	5 30
* base monthly charge per user as determined by number of dwelling units or commercial spaces on site, occupied or vacant (Note 2)	3 80	3 80

(Note 1) Water rates for customers with 2 inch meter or larger shall pay inside City rates

(Note 2) All City customers will pay the base charge in addition to the per 1 000 gallon charge Master metered customers will pay the base charge times the number of units served in addition to the per 1,000 gallon charge Residential water customer using metered service for irrigation purposes only shall not (during periods when level II or higher water restrictions are in effect) be billed a minimum bill for zero (-0-) usage

CITY OF KANNAPOLIS, NORTH CAROLINA

SCHEDULE OF RATES, FEES AND CHARGES FOR WATER AND SEWER SERVICE

WATER TAP and CONNECTION FEES

	<u>INSIDE CITY</u>	<u>OUTSIDE CITY</u>
Individual Water Tap Fees		
* 3/4" service (installation by City)	\$ 800 *	\$ 800 *
* 1" service (installation by City)	800 *	800 *
* 1 1/2" service (installation by City)	1,200 *	1,200 *
* 2" service (installation by City)	1,200 *	1,200 *
* Larger than 2" (installation by customer or City)	ALL COST BORNE BY CUSTOMER	ALL COST BORNE BY CUSTOMER
 Fireline Service Tap		
* All sizes (installation by customer)	ALL COST BORNE BY CUSTOMER	ALL COST BORNE BY CUSTOMER
 Tap on of New Water Main to Existing		
* Any size (installation by by customer)	ALL COST BORNE BY CUSTOMER	ALL COST BORNE BY CUSTOMER

Individual Water connection fees These fees were derived from meter factors as developed in the American Water Works As Standards Manual

(See Note a)

Water meter size

* 3/4" service	\$ 1,200	\$ 1,200
* 1" service	3,000	3,000
* 1 1/2" service	6,000	6,000
* 2" service	9,600	9,600
* 3" service	18,000	18,000
* 4" service	30,000	30,000
* 6" service	60,000	60,000
* 8" service	96,000	96,000
* 10" service	138,000	138,000

Note a - (1) Tap fee and connection fee shall be per lot or per unit to be served

(2) Master metered developments shall pay a connection fee for each lot or individual unit served or fee for meter size w
ever is greater

(3) Connection fee due from residential developers shall be paid before final plat approval (Tap fees are waived where
developer has installed water systems in accordance with City Ordinance

(4) Connection fee is due from commercial and industrial developers before zoning permits can be issued by the City

(5) Connection fee for residential customers where a tap fee is also due shall be paid before tap is installed by City

(6) Residential and commercial developers who have preliminary plats approved by the City before December 18, 2000
exempted from paying the connection fee

(7) Commercial and industrial developers who are not required to obtain plat approval shall be exempted from paying th
fee if zoning permits have been issued by the City prior to December 18 2000 (Manufactured home parks and multi-
apartment complexes are included as commercial developers)

(8) All applicable fees must be paid before receiving City water service

CITY OF KANNAPOLIS, NORTH CAROLINA

SCHEDULE OF RATES, FEES AND CHARGES FOR WATER AND SEWER SERVICE

SEWER TAP and CONNECTION FEES

Individual Sewer Service Tap

* 4" service (installation by City) (includes any size pumped by customer)	\$ 1,200	\$ 1,200
<hr/>	<hr/>	<hr/>
* 6" or Larger or where utility incasement may be required (installation by customer or City)	ALL COST BORNE BY CUSTOMER	ALL COST BORNE BY CUSTOMER
<hr/>	<hr/>	<hr/>
Tap on of New Sewer Line to Existing		
* Any size (installation by customer)	ALL COST BORNE BY CUSTOMER	ALL COST BORNE BY CUSTOMER
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Individual Sewer connection fees These fees were derived from meter factors as developed in the American Water Works Association Standards Manual

(See Note b)

Water meter size

* 3/4" service	\$ 650	\$ 650
* 1" service	1,625	1,625
* 1 1/2" service	3,250	3,250
* 2" service	5,200	5,200
* 3" service	9,750	9,750
* 4" service	16,250	16,250
* 6" service	32,500	32,500
* 8" service	52,000	52,000
* 10" service	74,750	74,750

- Note a - (1) Tap fee and connection fee shall be per lot or per unit to be served
 (2) Master metered developments shall pay a connection fee for each lot or individual unit served or fee for meter size whichever is greater
 (3) Connection fee due from residential developers shall be paid before final plat approval (Tap fees are waived where developer has installed sewer systems in accordance with City Ordinance)
 (4) Connection fee is due from commercial and industrial developers at the time of application for service
 (5) Connection fee for residential customers where a tap fee is also due shall be paid before tap is installed by City
 (6) Residential and commercial developers who have preliminary plats approved by the City before December 18, 2000 exempted from paying the connection fee
 (7) Commercial and industrial developers who are not required to obtain plat approval shall be exempted from paying the fee if zoning permits have been issued by the City prior to December 18, 2000 (Manufactured home parks and multi-unit apartment complexes are included as commercial developers)
 (8) All applicable fees must be paid before receiving City sewer service

CITY OF KANNAPOLIS, NORTH CAROLINA
SCHEDULE OF RATES, FEES AND CHARGES FOR WATER AND SEWER SERVICE

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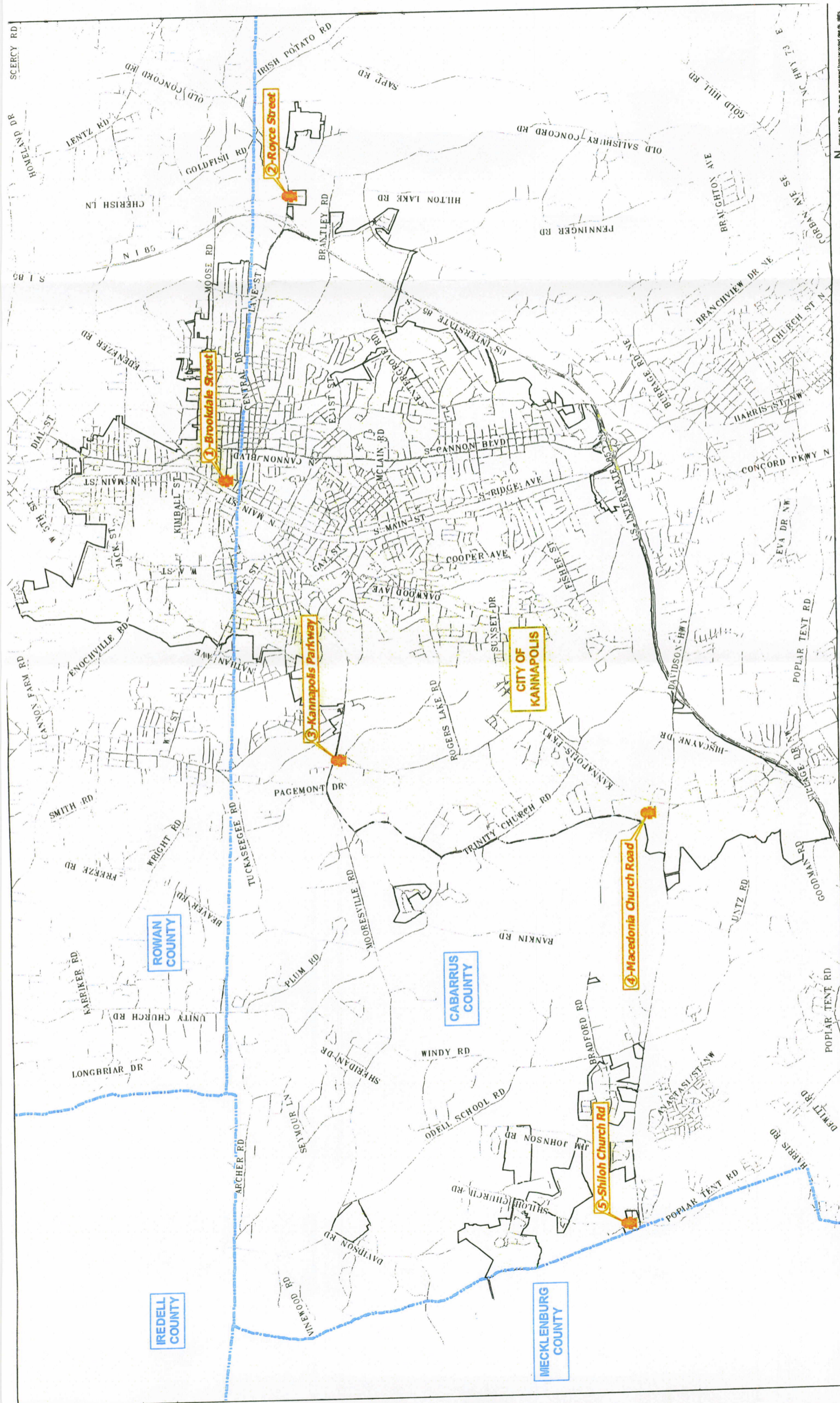
SERVICE FEES AND DEPOSITS

<u>Service Reconnection</u>	<u>\$ 20</u>	<u>\$ 20</u>
Service Deposit: (Non Property Owners) * Water or sewer or water and sewer	\$ 50	\$ 50
<u>Returned Checks</u> * each	<u>\$ 25</u>	<u>\$ 25</u>

HYDRANT METER FEES

<u>Construction Hydrant Meter (refundable)</u>	<u>\$ 750</u>	<u>\$ 750</u>
<u>Fire Hydrant Use Account (refundable)</u>	\$ 250	\$ 250
<u>Annual Hydrant Use Permit fee- per vehicle</u>	<u>\$ 25</u>	<u>\$ 25</u>


EFFECTIVE DATE July 1, 2006 for all bills rendered
on or after that date



DISCLAIMER: This map is prepared from recorded deeds, plats, maps, surveys, plans, etc. and other public records and is not intended to be used as a legal instrument. It is provided for informational purposes only and should not be used for any legal or financial transaction. The City of Kannapolis is not responsible for any errors or omissions on this map. As such, the accuracy, completeness, or reliability of this data is not guaranteed. Furthermore, AMEC assumes no liability whatsoever associated with the use or misuse of such data.



CITY OF KANNAPOLIS HYDRANT OBSERVATION INDEX



 ally williams, clemen & king, inc.
 CONSULTING ENGINEERS
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 KANNAPOLIS, NC 28086
 PG. 001 OF 06
 10/28/2011