

HARFORD COUNTY

DEPARTMENT OF PUBLIC WORKS
DIVISION OF WATER AND SEWER



GENERAL RULES

AND

REGULATIONS

February 25, 2020

Department of Public Works
Division of Water and Sewer

**HARFORD COUNTY, MARYLAND
DEPARTMENT OF PUBLIC WORKS
DIVISION OF WATER & SEWER**

GENERAL RULES AND REGULATIONS

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**HARFORD COUNTY, MARYLAND
DEPARTMENT OF PUBLIC WORKS
DIVISION OF WATER & SEWER**

GENERAL RULES AND REGULATIONS

The following rules and regulations apply to the operation of the Division of Water and Sewer and are promulgated in accordance with Section 807 of the Harford County Charter.

PART 1 - REQUEST FOR SERVICE (INDIVIDUAL PROPERTY OWNER)

Requests for Water and/or Sewer Service for an individual property will be handled as follows:

- A. Division of Water and Sewer will determine which project will serve the property.
- B. An estimate will be made for the cost of installing the service connection.
- C. The property owner will be informed in writing of all estimated costs and charges involved in providing the service.
- D. When all charges and deposits are received in the Water and Sewer Accounting Section, a work order request will be prepared and the service will be installed.
- E. After installation of the service, the Division of Water and Sewer will forward a copy of the work order outlining actual time and material costs to the Water and Sewer Accounting Section who will either refund any excess deposits to the property owner or bill for any amount due.

PART 2 –COLLECTION AND DISTRIBUTION SYSTEM – Revised 10/04

I. Job Orders:

Job orders will be issued by the Division of Water and Sewer for all work to be performed that is subject to reimbursement such as, installation of water and/or sewer service connections, repairs to County-owned and developer-owned water and sewer facilities damaged by others such as: construction contractors, Baltimore Gas and Electric, and cable companies.

Job order costs will be computed as follows:

- A. Labor will be charged at the actual salary rate of \$60.00 per hour for those on the job site. This rate applies to all working hours, portal to portal from the Abingdon facility. This rate will be adjusted each fiscal year based on the percent change in the Consumer Price Index. Each fiscal year this labor rate will be adjusted to reflect the annual change of the “Consumer Price Index” for “All Urban Consumers” for the expenditure category “All Items Not Seasonally Adjusted”, and for all regions.
- B. Materials will be charged in the amount of the cost to the County.
- C. Equipment Hourly Charges (without operator):

EQUIPMENT	PER HOUR
Trouble Truck	\$75.00
Dumptruck	\$35.00
Pick-Up or Van	\$20.00
Backhoe	\$70.00
Jet Cleaner	\$60.00
Jet Vac	\$105.00
Air Compressor	\$18.00
Trash Pump	\$12.00
Generator	\$12.00
Pipe & Chain Saw	\$12.00
Arrow Board	\$18.00
Loader	\$60.00
Electric Sewer Rodder	\$12.00
Equipment Trailer	\$20.00
T.V. Camera	\$115.00
Jacking Machine	\$35.00
Tapping Machine	\$25.00
Tanker Truck –County	\$50.00
Tanker Truck – Contractor Rental	at cost
Emergency Truck	\$25.00
Lighting Equipment	\$16.00

Any equipment required and not specifically listed in the above chart will be charged at the cost of rental to Harford County plus 15%.

II. Sewer Blockages:

Harford County is responsible for correcting any sewer blockages that occur from the property line (clean out) out into the County system. The property owner is responsible for any blockages on his property. The Homeowner is responsible for the maintenance of the sewer line that runs from the property line (clean out) to the house. Any blockage in the homeowner's line and damages that result from a back-up which flows into the house, is also the responsibility of the homeowner.

III. Water Leaks:

Harford County is responsible for correcting any water leaks between the water main and the property line (curb stop or outside meter vault). The property owner is responsible for correcting any water leaks on the property owner's side of the curb stop or outside meter vault and in other areas on his property.

IV. Meter And Backflow Preventer Testing:

When a property owner alleges that his water meter/backflow preventer is functioning and/or reading improperly, and requests that it be tested, the following procedures will be followed:

- A. The meter will be removed and tested providing the property owner agrees to pay for testing. If the meter/backflow preventer is found to be reading properly, charges for meter testing/backflow preventer testing shall be charged to the property owner as shown in the table below or in accordance with the current Harford County Public Bid.
- B. If the meter/backflow preventer fails the test (more than 98.5% to 101.5% out of tolerance), the property owner will not be charged the test fee, and the meter will be repaired or replaced.

C. The property owner will be invited to witness the test.

<u>WATER METER TEST*</u>		
<u>SIZE</u>	<u>TYPE</u>	<u>COST*</u>
5/8" up to 3/4"		\$140.00
1"		\$170.00
1 – 1/2"		\$260.00
2"	MCT II, MVR, Disc	\$290.00
3"	MCT II, MVR, Disc, MFM-MCT II	\$350.00
4"	MCT II, MVR, MFM-MCT I/MVR	\$350.00
6"	MHR, MVR, MFM-MCT I/MVR	\$380.00
8"	MFM-MCT I/MVR	\$380.00
10"	MHR, MFM-MCT II/MVR	\$380.00
10" x 12"	MFM-MCT II/MVR	\$380.00

<u>BACKFLOW PREVENTER TEST*</u>		
<u>SIZE</u>	<u>TYPE</u>	<u>COST*</u>
3/4" up to 2"	DC or RP	\$120.00
2 1/2"	DC, DCDA, RP, or RPDA	\$150.00
3" up to 10"	DC, DCDA, RP, or RPDA	\$200.00

TYPE: DC = DOUBLE CHECK
 DCDA = DOUBLE CHECK DETECTOR ASSEMBLY
 RP = REDUCED PRESSURE
 RPDA = REDUCED PRESSURE DETECTOR ASSEMBLY

- NOTES: *. 1. Cost per test.
 2. If repairs/parts are needed, a second test is required.
 3. Parts at current list price will be added.

V. Water Service Lines vs. Meter Sizing:

The following water service lines and meter sizes will be used in the Harford County water system.

<u>Service Line</u>	<u>Meter Size</u>	<u>Maximum Flow Rate (GPM)</u>
3/4"	5/8"	25
1"	3/4"	35
1 1/2"	1"	50 or 70
2"	1 1/2", 2"	100, 160

VI. Illegal Connections into the Sanitary Sewer and/or Water System:

- A. No connection will be authorized in the Harford County sanitary system other than sanitary facilities that have received approval from the Division of Water and Sewer, have paid their appropriate connection charges and have been issued an approved plumbing permit. Unauthorized types of connections or discharges include, but are not limited to, sump pumps, down spouts, floor drains, French drains, etc. Under no circumstance shall any of these types of discharges be connected to a public sewer system. The connection of condensate drains into the public sanitary sewer system is highly discouraged and is not a recommended practice. The proposed connection of condensate drains into the public sanitary sewer system will be reviewed on a case by case basis and will only be allowed by the Division of Water and Sewer and Plumbing Department if the property owner can prove it to be an extreme hardship otherwise.
- B. If an illegal connection is found the property owner shall be responsible for all costs associated with proper disconnection of illegal types of discharges, proper reconnection of legal discharges and shall be required to pay any and all applicable connection fees, user fees and any penalty that may apply. These fees shall begin from the date that the illegal connection was originally made.

VII. Operating Fire Hydrants:

This section has been relocated to Part 17 Fire Hydrant Policies and Procedures, Section II E.

VIII. Filling of Tank Trucks

All tanker trucks using an issued or registered and approved temporary fire hydrant meter shall utilize the approved location for filling tankers. All tanker trucks must call ahead to the Harford County Government Water and Sewer Abingdon Maintenance Department to receive approval and location of filling site. The prevailing water Wholesale usage rate for tank filling shall be charged.

If a person and/or company is caught filling a tanker truck without prior approval for the Division of Water & Sewer then said person/company shall be responsible for an \$500 unauthorized use fee in accordance with Part 17 Fire Hydrant Policies and Procedures of these Rules and Regulations.

IX. Fire Booster Pump Operation and On-site Storage:

- A. Periodic testing of fire protection systems and filling of on-site storage tanks can create a substantial demand on the public water system and, therefore, shall be conducted only with County approval and coordination. A commercial water service or fire service customer, connected to the County water system, may not install, test or conduct periodic exercising of a private on-site fire storage and fire booster pump system unless he/she has complied with the following requirements.

1. If periodic (daily, weekly, monthly or yearly) testing of a fire system requires the use of water from Harford County, the customer shall submit the following information with the Commercial Application for the property:
 - a. Type of Test
 - b. Duration of Test (Time)
 - c. Required Flow Rate (in G.P.M.)
 - d. Total Water Required (Gallons)
 - e. Schedule for Testing
 - f. Plan for the Discharge/Disposal of Test Water
 - g. Indication of Automatic or Manual Operation
 2. Harford County shall review the Commercial Application and shall have the authority to approve the application, reject the application or request additional information or clarification. A fire storage or fire booster pump system shall not be installed and/or operated until the application is approved.
 3. Prior to conducting any testing or periodic exercising of a private on-site fire storage and fire booster pump system, the customer shall provide notice to the County at least 3 business days prior to the test or activity,. County reserves the right to:
 - a. Require rescheduling of the time or date of the test;
 - b. Modify the allowed flow rate during the test; and/or
 - c. Modify the duration of the test in event that existing water system parameters or operating conditions, in the opinion of the County, make testing inadvisable. Testing or exercising shall not proceed until the County approves the activity after receiving notice.
- B. Failure to comply with the above requirements will result in discontinuation of the fire line service and is punishable as a misdemeanor, subject to a fine of up to \$1,000 and/or confinement in the County Detention Center for up to six (6) months upon conviction.

PART 3 - ANNUAL WATER AND SEWER ASSESSMENTS – Revised 08/08

I. Methods/Types of Assessments

- A. Annual Assessments shall be levied to pay for all costs associated with water and sewer system construction, establishment and improvements, and the related debt service payments according to section 256-27 and 256-42.2 of the Harford County Code. In accordance with Chapter 256-28 it is the responsibility of the County Treasurer to review all project assessments at least biannually to ensure that all assessments will provide the requisite amount of money to defray the expenses of the capital improvements. Required readjustments to the annual amount, which are greater than the original County Council Established assessment amount, must be approved by the County Council for re-approval. Readjustments lower than the originally approved amount can be done automatically starting with the next billing cycle. The County Treasurer may determine that instead of lowering the annual assessment per year that it may be in the best interest to all concern to shorten the term in lieu of a smaller yearly payment.
- B. User benefit assessments are established within section 256-45.2 of the Harford County Code for the purpose of creating a fund to pay for the expansion, extension or reconstruction of the water and/or sewer system. Interest will be charged on past due assessment payments as per section 256.21 of the Harford County Code.

Assessment	Term	Discount	Interest
Benefit Assessments:			
Methods: Equal Benefit, Front Foot, Equal Unit, Equal Flow, or Assessed Valuation. All Benefit Assessments applicable to this section will strive to have a common termination date regardless of the date of connection for each independent project. Currently the following projects have varying end dates per the County Treasurers recommendation: Clearview Sewer, Bush Road Water and Bush Road Sewer. Check with the Treasury Department for paid off dates. (Sections 256-42.5 and 256.30 of the Harford County Code)	Varies 20-30 yrs	None	1.5%/mo. Starts Oct.
Basic Main: Properties connected by lines classified by the Director as Basic Mains will be charged an annual assessment Of \$1.00 per foot for water and \$1.30 per foot for sewer.	20 yrs	None	1.5%/mo. Starts Oct.
User Benefit Assessment Properties connected between 8/87 and 12/91 – \$35 water/ \$35 sewer per 5/8" equivalent connection Properties connected after 12/91 – \$70 water/ \$70 sewer per 5/8" equivalent connection	25 yrs	None	1.5%/mo. Starts Oct.
Whiteford Assessment Section 256-107 of the Code establishes the Whiteford sewer assessment. Payment may be made annually or quarterly. No prepayment is permitted. Equal Benefit (lot) method used. Start date of assessment was July 1, 2003.	30 yrs	None	1.5%/mo. 30 days from date of mailing
Fallston Assessment Section 256-30E of the Code establishes the Fallston Commercial Corridor sewer assessment. Assessed valuation method used. Start date of assessment was July 1, 1998	20 yrs	None	1.5%/mo. Starts Oct.

II. Exemptions from Assessment

- A. Property that is the site of a fire station and is owned or leased by a bonafide volunteer fire company is exempt from the payment of equal benefit assessments and equal unit assessments. The assessments will instead be paid to the Water and Sewer fund by the General Fund (Sections 256-30-D and F of the Harford County Code).
- B. Property that is the site of a fire station and is owned or leased by a volunteer fire company is exempt from the payment of front-foot benefit assessments (Section 256-30-C).
- C. Assessments for the Swan Creek Commercial Area of the County which apply to properties that are the site of a fire station owned or leased by a volunteer fire company will be paid to the Water and Sewer fund from the General Fund (Section 256-40-B of the Harford County Code).
- D. Assessments and connection fees for the Whiteford/Cardiff Sanitary Subdistrict which apply to properties that are the site of a fire station owned or leased by a volunteer fire company will be paid to the Water and Sewer fund from the general fund (Section 256-113 of the Harford County Code).

PART 4- BILLING AND COLLECTING – Revised 11/06

I. Water and Sewer Hook-Up Charges - Connection Charges, Surcharges, Water and Sewer System Development Fees, etc.

A. Types of Hook-Up Charges

1. General Charges

*	Water Area Charge (Bill 80-84)	\$ 650
*	Sewer Area Charge (Bill 80-84)	450
*	Water Surcharge (Bill 87-19)	450
*	Sewer Surcharge (Bill 87-19)	100
**	Joppatowne Water Area Charge (Bill 87-36)	1,100
**	Joppatowne Sewer Area Charge (Bill 92-18)	550
***	Water System Development Fee (Bill 91-36)	1,967
***	Sewer System Development Fee (Bill 91-36)	4,064

* Applies to all properties connecting to public water and/or sewer except those properties within the Joppatowne Sanitary Sub-district.

** Applies to all properties connecting to public water and/or sewer within the Joppatowne Sanitary Sub-district.

*** The System Development Fees apply to all properties connecting to public water and/or sewer, no matter what location, and increase six percent (6%) each July 1st in accordance with the Harford County Code. On July 1, 2007, the Water System Development Fee will be \$2085 and the Sewer System Development Fee will be \$4308 and so on.

2. Other Charges include, but are not necessarily limited to, surcharges, recoupment charges and policy statement charges listed and described in Part 18 herein. These charges are applied based on the location of the property connecting and are calculated at the rate of one (1) full charge per 5/8 inch equivalent residential unit. As new County charges, recoupments, surcharges are developed; they will also be calculated at the rate of one (1) full charge per 5/8 inch equivalent residential unit. A residential unit shall include, but not necessarily be limited to, each single family detached dwellings, mobile homes, semi-detached dwellings, town homes, townhouse condominiums, garden-style condominiums and garden-style apartment dwellings.

B. How Hook-Up Charges are Applied

1. All charges, including but not necessarily limited to those stated in A. above, are calculated and must be paid at the rate in effect at the time of connection. Except for residential customers, hook-up charges are based on fixture

count values of all plumbing and other water-using equipment connected to or proposed to be connected to a water line. Values are counted for rough-ins and no credits are granted for disconnected fixtures. Values are calculated as commercial when the fixture is available for use by employees only. Values are calculated as public when the fixture is available for use by people other than and/or in addition to employees. Fixture count values will be calculated in accordance with Table 4.1 and Table 4.2. One (1) charge (5/8 inch equivalent residential unit) is equal to 1-30 fixture count values; two (2) charges are equal to 31-60 fixture count values and so on.

2. Residential Properties – Domestic Demand Only

- a. Single Family Detached Dwellings, Townhouses, Townhouse Condominiums, Carriage Court Units, Mobile Homes and any other intended living dwelling shall be charged one (1) full set of all charges (General and Other) for each residential unit behind the County water meter/sewer service.
- b. Garden-Style Condominiums and Garden-Style Apartments, without onsite private fire hydrants (those with onsite private fire hydrants, in addition to Residential Charges, see Fire Flow Calculation below) have been determined to utilize ninety percent (90%) of a peak flow as it relates to a 5/8's equivalent (30 fixture count) residential unit. Therefore, these style units that pay (or have paid) Hook-Up Charges after January 1, 1994, shall be charged ninety percent (90%), rounded up to the next whole number, of one (1) full set of General Charges. All of the Other Charges, as described in A.2., shall continue to be charged at the rate of one (1) full charge per residential unit.

3. All uses other than Residential Domestic Demand (Commercial, Industrial, Mixed Office, Business, Retail, Fire Flow, Sprinkler systems in excess of 30 gpm, etc.)

Water Hookup charges for non-residential uses will be based on two (2) components. These components consist of the Domestic Peak flow and the Fire Demand flow. Sewer Hookup charges will be based on the domestic/production/processing peak flow capable of reaching the sewer system.

a. Domestic Flow Calculation – Shall be based on fixture count values and will be calculated utilizing Tables 4.1 and 4.2. One (1) area charge (equivalent unit) is equal to 1 – 30 fixture count values; two (2) area charges are equal to 31- 60 fixture count values and so on. All fixture values will be rounded up to the next whole number. No prorates will be granted. If fixture values are not known then they will be determined by the manufactures specification on the required peak gpm

of the water fixture. If no manufactures' specification is provided then the Division may utilize the meter size to determine the equivalent unit charge.

- (1) The Domestic flow rate shall be calculated based on fixture count values of all plumbing and other water-using equipment connected to or proposed to be connected to the domestic water line. In cases where specialty equipment exists (i.e. processing, manufacturing, or other equipment not listed on Table 4.1), the fixture value will correspond to the peak gallons per minute that the equipment utilizes as described in the manufacturers engineering information. Using the peak demand information, the County will utilize Table 4.2 and determine the corresponding number of fixture units served by the specialty equipment, add it into Table 4.1 in order to determine a total fixture value behind the domestic meter.
- (2) The domestic meter size shall correspond to the number of fixture values. In cases where the meter is intentionally oversized, the applicant will be charged for either the fixture count behind the meter or the lowest number of equivalent sets which the meter is able to serve, whichever is higher. For example, if the total fixture count behind the meter is 92, 4 sets of Charges would be required and a 1-inch meter would be sufficient; however, a 2-inch meter is requested, then 10 sets of Charges will be required to be paid instead of 4.
- (3) Fixture values are counted for rough-ins and no credits are granted for disconnected fixtures.
- (4) Fixture values are calculated as commercial when the fixture is available for use by employees only.
- (5) Fixture values are calculated as public when the fixture is available for use by people other than and/or in addition to employees.
- (6) Irrigation systems will be determined by the manufacturer's literature, the number of heads designed to operate simultaneously, and the gallons per minute flow rate delivered to each head. The maximum flow rate of the system will be correlated to Table 4.2 and the corresponding fixture value will be added to the total Domestic Peak flow to determine the total amount of Charges. If the irrigation system has a separate meter, then the corresponding fixture value will be rounded up to

the next whole number in determining the number of sets due.

- (7) The Domestic peak equivalent water sets will also determine the number of sewer charges, minus any hose bids which are located outside the building.

b. Fire Flow Calculation - Fire Flow peak demand will be derived from the total gallons per minute demand of any and all fire fighting equipment i.e., hose stations, pumps, fire hydrants, and/or sprinkler systems etc... For every 100 gpm of fire demand, one equivalent unit of water charges (no sewer charges will be assessed for fire flow demand, unless for some reason the fire equipment is plumbed to the sewer line) will be due. I.E. 1 – 100 gpm = 1 Charge, 101 – 200gpm = 2 charges, 201 – 300gpm = 3 charges, and so on. This calculation will be utilized whether the system is a closed, opened or combined system. Fire flow peak demand will determine the number of water charges to be assessed. Demand will be based on the maximum flow rate that the fire system can provide under a fire situation or a maximum of 500 gpm per each on-site, private fire hydrant plus the sprinkler systems, hose stations etc.; i.e. peak gpm the system is capable of delivering during normal flow condition of the County's system and the private on site fire system configuration. For example, a site as with two (2) private fire hydrants, sprinkler system design for 110 gpm, per building and a hose station design to deliver 250 gpm per building; total fire connection charge = $(2)500 \text{ gpm} + 110 \text{ gpm} + 250 \text{ gpm} = 1360 / 100 \text{ gpm} = 13.6$. This figure shall be rounded to 14 charged sets. All combined and open systems must be metered.

FIXTURE COUNT VALUES – Table 4.1

Commercial/Public		
Fixture		Value
Lavatory	(Commercial) (Public)	1 2
Water Closet	Commercial (Toilet w/tank)	4
	(Flush valve - no tank)	8
	Public (Toilet w/tank)	5
	(Flush valve - no tank)	10
Urinal	Commercial (Tank)	3
	(Wall)	4
	(Pedestal)	8
	Public (Tank)	5
	(Wall)	5
	(Pedestal)	10
Bidet	Commercial	3
	Public	4
Bath Tub	Commercial	3
	Public	4
Shower	Commercial	3
	Public	8
Hand Sink	Commercial	3
	Public	4
3-Compartment Sink	Commercial	3
	Public	4
2-Compartment Sink	Commercial	3
	Public	4
Mop Sink		3
Service Sink		3
Kitchen Sink	Commercial	3
	Public	4
Bar Sink		3
Pre-Rinse Dish Sink		3
Hair Sink		3
Bradley Sink		3

Laundry Tub	3
Washing Machine	6
Dish Washer (General) Commercial (Pots and Pans)	4 3
Steam Table	2
Garbage Disposal	3
Ice Machine	1
Coffee Maker	1
Ice Tea Maker	1
Soda Machine	1
Water Fountain Commercial Public	1 2
Hose Bib (outside - water charges only) (spigot that a 5/8" hose connects to)	4
Hose Bib (inside)	4
Other	

Line sizes to water-using fixtures shall be calculated at values of no less than those shown on the following chart. Values for line sizes larger than those listed below shall be calculated by the Division of Water and Sewer.

<u>Fixture</u>	<u>Value</u>
¼ Inch	1
⅜ Inch	2
½ Inch	4
¾ Inch	6
1 Inch	10
1 ¼ Inch	16
1 ½ Inch	24
1 ¾ Inch	32
2 Inch	42

Where fixture count cannot be determined or used, the County may base hook-up charges calculation on meter size or peak instantaneous flow in accordance with the following schedule:

**SCHEDULE OF PEAK DEMANDS, METER CAPACITIES
AND HOOK-UP CHARGES – Table 4.2**

Each Meter Connection

Peak Demand G.P.M.**	No. of Equivalent Fixture Units Served at Peak Demand**	# of Sets of Hook-Up Charges per Fixture Count or Peak Demand	Minimum Meter Size*
20	30	1	5/8"
30	60	2	3/4"
40	90	3	1"
50	120	4	1"
70	150	5	1"
75	180	6	1-1/2"
87	210	7	1-1/2"
100	240	8	1-1/2"
105	270	9	1-1/2"
110	300	10	2"
115	330	11	2"
120	360	12	2"
125	390	13	2"
130	420	14	2"
135	450	15	2"
140	480	16	2"
145	510	17	2"
150	540	18	2"
153	570	19	2"
160	600	20	2"
164	630	21	3"
(@ 4 gpm to 350)	(@ 30 F.U. to 2100)	(to 70)	3"
(@ 4 gpm to 650)	(@ 30 F.U. to 5250)	(to 175)	4"
(@ 2.5 gpm to 1300)	(@ 30 F.U. to 12000)	(to 400)	6"
2000	19,200	640	8"

* Meter sizes based upon AWWA maximum safe-operating capacities with normal pressure at meter.

** Peak Instantaneous Demand based upon diversity curves for gpm versus fixture units, American Standard, National Plumbing Code, American Society of Mechanical Engineers, 1955. (Values beyond 500 gpm obtained by geometric extension.)

NOTE: Hook-Up Charges are determined by entering the Schedule with the Customer's Fixture Unit Count or, if Fixture Unit Count is unavailable, by entering the schedule with the Customer's Peak Demand in terms of gpm; then, using that quantity if listed, or the next larger fixture count or gpm demand listed, follow across the Schedule to the number of Hook-Up Charges. Note that demands and Hook-Up Charges beyond 630 fixture units and 164 gpm continue to be listed in increments of 30 fixture units, 4 gpm, and 2.5 gpm.

C. Payment of Hook-Up Charges:

1. New Residential

If the proposed residential unit is to be located along water/sewer lines that are operational, the hook-up charges shall be paid before a Plumbing connection permit can be issued. If the water/sewer lines are not operational, however, the proper performance bond has been posted, the hook-up charges shall be paid before the building permit can be issued.

Two (2) day notice must be given to the New Connection Services Section before hook-up charges can be paid. When giving this notice, the following minimum information must be provided:

- a. Property owner(s) name
- b. Property address
- c. Lot number of property
- d. Subdivision
- e. Type of dwelling
- f. Name of contact person and telephone number
- g. Date, two (2) days or more after request, that the invoice is needed.

The New Connection Services Section and Water and Sewer Accounting shall prepare necessary calculations and paperwork and forward same to Water and Sewer Accounting. Payment shall be made at the Revenue Collections counter, 220 S. Main Street, 1st Floor.

2. Commercial

Refer to Part 19, Application for Commercial Water/Sewer and/or Fire Service.

3. Plumbing Permits for Remodeling, Expansions, Retrofits, etc.

At the time a plumbing permit is issued from Inspections, Licenses and Permits Department, for remodeling, expansion, retrofit, etc. to existing structures, a notice will be provided informing the applicant/owner that they must request a field audit to be conducted by the Division of Water and Sewer for the purpose of verifying fixture count values once the plumbing work is completed.

When the field audit is conducted utilizing the Fixture Count Value Chart described above, the resulting information will be reviewed along with any previously paid fees to determine, if any additional hook-up fees should be billed.

The New Connection Services Section shall prepare paperwork for hook-up charges owed and submit same to Water and Sewer Accounting. Water and Sewer Accounting will prepare invoice and bill the owner. Unpaid bills can result in water/sewer service turn-off (see Section III. Water and Sewer Usage Billing) or a lien placed against the property.

4. Financing of General Hook-Up Charges

General Hook-Up Charges, as defined in Part 1.A.1. herein, (connection charges, surcharges, and water system development charges) for existing residential units may be financed over a five (5) year period and the interest charges on any unpaid balance shall be the prime rate of interest as identified in the Wall Street Journal plus two (2%) per year. All charges other than the General Charges are not included in this payment option and must be paid in full at the time the initial Hook-Up Charges payment is made. Charges shall not be financed for Commercial/Industrial properties or new residential dwelling units.

II. Meter Installation Charges:

The following meter installation charges shall be collected when the area charges are paid.

<u>METER SIZE</u>	<u>CHARGE</u>
5/8"	\$284.00
3/4"	\$365.00
1"	\$395.00
1 1/2"	\$794.00
2"	\$960.00

Meters larger than 2" will be priced at the time the engineering estimates is made to include required fittings, etc.

III. Water and/or Sewer Usage Billing

A. Delinquent Bills and Service Turn-offs:

1. Bills become delinquent after thirty (30) calendar days from the billing date. A 5% late penalty is computed and charged based on the unpaid balance.
2. Within twenty (20) calendar days after the above thirty (30) days has elapsed, a past due notice will be mailed to the property owner giving an additional fourteen (14) days to settle the account. The turnoff date is printed on this notice. If the service address is different from the mailing address, a copy of the past due notice is sent to the property address.
3. Failure to receive a notice does not excuse the payment or charges. Should an account remain unpaid by the turnoff date that is on the past due notice, water service will be discontinued.
4. The fifty dollar (\$50.00) turnoff/service charge will be assessed if one or more of the following conditions apply:
 - a. The total amount due exceeds fifty dollars (\$50.00) with the exception of returned checks.

- b. The payment or confirmation number from a payment service was not received by 5:00 PM on the day prior to turn off.
 - c. The payment was left in the night drop box and collected by Revenue Collections on the day of turn off.
 - d. The turn off work order was generated by the system.
5. The past due amount must be paid before service is restored. The fifty dollar (\$50.00) turn off/service charge may be deferred until the next billing quarter.
 6. When water must be turned off at a facility serving food to the public, the Meter Section will notify the Health Department.

B. Responsibility of Property Owner

1. The owner of the property will be billed for water and sewer usage. Tenants are not billed. It is the responsibility of the owner to pay the bill as unpaid bills are a lien against the property and delinquencies will result in additional charges and tax sale.
2. The property owner must inform the Water and Sewer Accounting section of their change of address.
3. When the property owner requests that their water be turned off, a fifty dollar (\$50.00) turnoff service fee will be charged. This request must be made in writing and service will be turned off within 48 hours after receipt of notice.

C. Payment Schedules

1. The Office of Water and Sewer Accounting will work diligently with all customers in an effort to get bills paid without resorting to turning off service. This includes making reasonable payment plans based on the customer's credit history with the Water and Sewer Accounting section.
2. Payment plans will be granted to property owners who have experienced leaks and/or have extremely high water/sewer bills. Customers who do not follow the terms of the payment plan will be subject to turnoff of service and a fifty dollar (\$50.00) turnoff service fee. The entire amount past due will be collected before the service is restored.
3. If the customer defaults on the agreed payment terms, the payment plan is considered null and void and all outstanding charges and penalties will be due.

D. Restoration of Service and Meter Tampering

1. Tampering with a service, meter, curb stop and its appurtenances is not permitted and subject to a tampering fee of no more than \$300.00, as per Harford County Code Sec.256-20.D. All costs are the responsibility of the owner and the owner will also be charged for the water/sewer usage based on the last full average daily consumption.
2. The County reserves the right to charge for all costs associated with the turnoff of service.
3. Meter mechanics will not accept any payments. Customers whose service has been discontinued must pay delinquent bills at the Revenue Collections office located at 220 S. Main Street prior to 12:00 PM or call a confirmation number from a payment service to the Office of Water and Sewer Accounting to have service restored the same day. Bills paid after that time will have service restored on the next County business day (Monday through Friday, 7:00 AM to 3:00 PM). If the service has been off for more than twenty-four (24) hours, an appointment must be made with the meter section for restoration of service.

E. Special Meter Readings and Home Inspections

1. In cases where a special meter reading (other than the normal scheduled reading) is requested, a fee of fifty dollars (\$50.00) will be charged. A minimum twenty-four (24) notice is required for a special meter reading.
2. When a service has been turned off and a home inspection has been scheduled prior to a property settlement, a written request from the current property owner must be received in the Water and Sewer Accounting office. The future property owner, realtor or settlement officer must also take responsibility for any charges and damages that result from the service being turned on. A \$50.00 turn off service fee must be paid prior to the service being restored. Service will be left on for 72 hours.

F. Returned Checks

1. Customers presenting a check or electronic remittance to the County that is later returned for any reason will receive a letter from Water and Sewer Accounting allowing eight (8) days to redeem the dishonored check plus a returned check charge of twenty-five dollars (\$25.00); payment must be made by cash, money order or certified funds.
2. Customers who fail to make the payment within the specified time will have their service turned off and charged the fifty dollar (\$50.00) turnoff service charge plus the twenty-five dollar (\$25.00) returned check charge.
3. Payments must be made by cash, money order or certified funds for a period of twelve (12) months following the receipt of a returned check or electronic remittance.

4. In the event that service has been discontinued to a property and customer presents a check or electronic remittance to the County to have service restored that is later returned unpaid, service to that property will be turned off with no prior notice.
5. In the event that a check or electronic remittance is returned unpaid and the payment was made during the penalty period, service to the property may be turned off with no prior notice.

G. Water Leaks On Private Property

1. The Division of Water and Sewer shall turn-off water as soon as possible at the property line when obvious or visible leaks occur on private property. The customer will be notified and will be responsible for correcting the leak before service is restored. The Treasury Department will be advised of such leaks and no turn off /on service fees will be charged.
2. When a minor leak is detected, the Division of Water and Sewer personnel shall notify the customer of the problem and allow a period of three (3) days for taking action and/or for correcting the leak. After three (3) calendar days , the service will be discontinued and shall not be restored until the leak is repaired.

H. Adjustment of Water/Sewer Bills

1. No legitimate water/sewer bill will be abated. If a bill is in dispute at turn-off time, service will not be discontinued as long as payment is made equivalent to average bill of two preceding quarters. The Treasurer or designee will resolve such disputes after obtaining all pertinent information from the Division of Water & Sewer.
2. In the event of an inside water leak or break that produces a bill that is more that four (4) times the average quarterly bill for the preceding eight (8) quarters, an adjustment may be made to the bill upon submission by the customer and evidence that the leak or break has been repaired or otherwise resolved. Customers whose bills are less than four (4) times their average quarterly bill as defined above and customers with water only service are not eligible for an adjustment. Adjustments may only be granted by the Treasurer or his designee and only after an appropriate investigation has been conducted.
3. In the event of an underground leak or break, which produces a bill that is more than twice the average quarterly bill for the preceding eight (8) quarters, an adjustment may be made upon submission by the customer of evidence that the leak or break has been repaired. Acceptable evidence would be a copy of a licensed master plumber's bill that shows the repair has been made. Adjustments may only be granted by the Treasurer or his designee and only after appropriate investigation has been conducted. The customer will be charged the normal quarterly usage for the same time in the prior year. This type of adjustment is not available for high bills due to leaks or breaks from hoses, hose bibs, water faucets or sill-cocks.

4. In cases of malfunctioning meters or reading devices, an account may be billed or adjusted so that the customer is charged the average of the prior eight (8) quarters, if available, before the problem began.
5. It shall be the obligation of the customer to contact the Department of Public Works or the Treasury Department when seeking remedy under the above provisions. This must be done within six months or two quarters of the receipt of a bill.
6. Except in the event of a malfunctioning meter or remote reading device, an account that has been adjusted will not be eligible for a subsequent adjustment until after four (4) full quarters have elapsed.
7. In the event that an account has been under billed or over billed, Harford County may back bill for a period of three (3) years or refund for a three (3) year period.
8. No water and/or sewer credits will be issued for outdoor water use including but not limited to the watering of lawns or the filling of swimming pools and ponds.

I. Adjustment of Water and/or Sewer Bill for Meter Out of Calibration or Remote Indicator Different from Inside Meter

1. If a meter test shows that the meter is reading too high, reimbursement may be calculated by using the results of the test and for time period of a maximum of eight quarters to the same customer, e.g. if the test shows that the meter was reading 20% too high, a reimbursement of 20% of payments for the previous eight quarterly bills (maximum) shall be made. At least minimum payments may be required for all quarters.
2. If a remote indicator reading is lower than the inside meter reading, the customer may be billed for the difference for the extra water and/or sewer service used.
3. If a remote indicator reading is higher than the inside meter reading, the customer may receive a credit for the difference.

J. Usage Charges Prior to the Installation of a Meter

1. Beginning from the time that a connection is made for water and/or sewer, a ready-to-serve base rate charge will be billed to the property owner of record.
2. The ready-to-serve base rate will be the charge in effect at the time of the billing and is based upon the size of the meter to be installed on the water connection leading to the property.
3. The base charges will be billed on a quarterly basis until such time that a meter is set and/or the property is transferred.
4. All outstanding charges will be paid prior to the transfer of the property.

K. Estimated Bills

In the event a meter cannot be read for any reason, the billing will be based upon an estimated consumption. The estimated consumption is based upon prior consumption.

IV. Rental/Temporary or Privately Owned Construction Meters

- A. Other than fire companies and Harford County Water and Sewer Division employees, the only personnel authorized to operate and/or draw water from public fire hydrants are persons or entities who have obtained written permission, instruction and a meter from the Water and Sewer Division and who are using the meter in a fashion consistent with the permission and instruction.
- B. Meters may be privately owned or rented. Rental meters shall be obtained from the Division of Water and Sewer Maintenance facility located at 3111-A Philadelphia Road, Abingdon, MD 21009 (Phone: (410) 612-1612 or (410) 679-6148).
- C. All construction meters shall be taken to the Abingdon facility at least once each quarter for a reading and operational check. Quarterly checks will be during the months of February, May, August and November between the hours of 7:30 a.m. and 2:00 p.m. Monday thru Friday, except on holidays. The quarterly check takes approximately 15 minutes.
- D. The person or entity operating the meter is responsible for using the meter in the correct manner. The costs for any damages to a rented meter or to any hydrant or other public water facility as a result of misuse are the responsibility of the renter. The permit holder is responsible to notify the Water and Sewer Maintenance Facility immediately if any damage to County property has occurred.
- E. If meters are not to be used for an extended period of time, the meter must be taken to the Abingdon facility for a final reading and taken out of service. The meter must be re-registered when it is put back in service.
- F. The charges for rental/temporary meters are as follows:
 - Deposit
 - 1" meter - \$ 200.00
 - 3" meter - \$ 950.00
 - Rental
 - 1" meter - \$ 4.00 per day (\$360.00 per quarter)
 - 3" meter - \$ 10.00 per day (\$900.00 per quarter)
 - Water Consumption (there is no minimum usage requirement)
$$\frac{\# \text{ of gallons used}}{1000} \times \$2.54 \text{ plus the purchased water rate}^*$$

(*or prevailing rates as approved by the County Council)

G. Administration Fee

A twenty-five dollar (\$25.00) administrative fee shall be assessed in the quarterly bill.

H. Charge for unauthorized use - \$300.00

I. Charge for failure to appear for quarterly check -

1. Forfeiture of deposit
2. Return of meter
3. \$100.00 fee per quarter

J. Failure to comply with these procedures may result in the loss of the right to purchase water from Harford County.

V. Inspection Charges

All water and sewer construction shall be in accordance with the Harford County Standard Specifications for Water Mains and Sanitary Sewers. The base rate for the inspector's time is Fifty Dollars (\$50.00) per hour, Monday through Friday, 7:00 a.m. to 3:00 p.m. (portal to portal from the Water and Sewer Maintenance Facility).

PART 5 - FIRE HYDRANT RENTAL FEE – Revised 10/04

- I. Procedures for adding fire hydrants to public or private water systems.
 - A. Owners of properties that are not located within the corporate limits of the Town of Bel Air and that are served by Maryland American Water Company may petition the County for fire hydrant service. These procedures are established within section 256-15.D(1)-(5).
 - B. New developments and/or new construction within the Maryland-American Water Works service area but, reside out of the corporate limits of the Town of Bel Air may be allowed to install fire hydrant(s) on their proposed development provided that the property owner enters into a private fire hydrant agreement with Maryland-American Water Works and pays all up front and yearly costs for said fire hydrant(s) directly to Maryland-American Water Works.

- II. The following will govern the collection of fire hydrant rental fees from those property owners benefited by the placement of hydrants on Maryland-American Water Works' lines installed by the petition procedures method:

Properties*, improved or unimproved, benefited by the placement of hydrants on Maryland-American Water Works' lines, will pay a fee at least once a fiscal year or as the Treasurer may direct, equal to the amount computed by the following formula:

$$\frac{\text{annual rental charge per hydrant to County} \times \text{number of hydrants in area benefited} + 25\% \text{ admin. costs}}{\text{number of properties in area benefited}}$$

* Properties are hereby defined as "benefited" when they are within the 600' radius of a hydrant.

- III. In accordance with the County's Treasurer's memorandum of February 14, 1996, that determined that it is the opinion of the Law Department, as well as Treasury and Public Works, that Harford County only has authority to bill for fire hydrants in areas that petition the County for such hydrants in the manner prescribed in section 256-15 of the Code, therefore any fire hydrant billings without such authority will cease.

Currently the only subdivisions that were provided the process of the petition procedure are: Wakefield Meadows, Colonial Acres, Bynum Ridge and the Detention Center. All other fire hydrant billings will cease.

- IV. Existing fire hydrant(s) located inside of the corporate limits of the Town of Bel Air are the responsibility of the Town of Bel Air and the County will not be subject to Maryland-American Water Works fire hydrant rental fees.

- V. Any properties annexed into the corporate limits of the Town of Bel Air, which has an existing fire hydrant rental fee, will no longer be the responsibility of the County. The County will contact Maryland-American Water Works and the Town of Bel Air and have the fire hydrant rental fee removed from the County bill. Any monies collected in advance for that Fiscal-Year (FY) for fire hydrant rental fees are non-refundable.

PART 6 - CHARGES FOR REVIEWING PLANS

Outside agencies and/or individuals who submit plans to the County that are reviewed by the Division of Water and Sewer for comment and/or approval will be charged at the rate of \$41.00 per hour for the staff time spent on the review from conceptual to the end of the maintenance term and review shall include, but not be limited to, field visits, processing operationals, and other engineer staff time that may be required during construction.

The rate for recognized County Holidays, Saturdays, Sundays and Overtime is \$49.00.

PART 7 - LABORATORY TESTS

There are times when agencies or industrial users request that laboratory tests are made for them at the Sod Run Wastewater Treatment Plant Laboratory. The Sod Run Laboratory Supervisor will decide if the laboratory can handle the extra tests when requested.

The charges for these tests are as follows:

pH, per test	\$10.00
BOD, Per Test	25.00
Suspended Solids, Per Test	20.00
Fecal Coliform, Per Test	35.00
Total Coliform, Per Test	30.00
Other, Per Test	25.00 Minimum

* Customer will be charged County Lab Contractor Rate.

An industrial user shall pay the County \$250.00 for each self-monitoring test of the user's discharge(s) conducted by the County at the user's request. This fee covers monitoring for BOD, TP, TKN, TSS, pH, TPH and total oil and grease. Any other test the County is required to perform, in order to determine the compounds or parameters of a discharge shall be charged to the user at the cost to the County to perform the test or have an independent certified lab perform the test in accordance with EPA and MDE protocols.

PART 8 - BENEFIT ASSESSMENTS FOR PROPERTIES THAT HAVE BEEN EXEMPT FROM ASSESSMENT

In the case of properties that have been exempt from assessment such as church properties prior to January, 1978 and are no longer in an exempt status will be treated as a new assessment and will be assessed at the existing rate the same as if it were a new property.

In the case where a property is being assessed and it is divided into two or more properties, the new properties will be assessed under the procedures in existence at the time of the subdivision.

PART 9 - MISS UTILITY LOCATION MARKINGS PROCEDURES AND CHARGES

The Division of Water and Sewer, as a member of the State's Miss Utility Program will mark water and/or sewer main's that have been declared operational, but not yet accepted by the County. However, the lateral service lines to individual lots will not be marked unless the lots are graded in accordance with County requirements at the time the lines are declared operational and the County can effectively determine the location of the lines.

The existing State Statute allows the County to collect funds to offset expenses incurred for locations. By mandate of the Statute "Contractors" shall pay the fee for such location. Fees do not apply to an owner of a private residence who excavates entirely on the land upon which the private residence is situated.

Requests for Miss Utility Location Markings will be billed at the rate of \$37.00 per hour. This rates applies to regular working hours, Monday through Friday, 7:30 a.m. to 3:30 p.m. (portal to portal from the Abingdon Facility). A minimum of one (1) hour shall be charged for each location. After the first hour charge will accrual in thirty 30 minute intervals.

The rate for recognized County Holiday, Saturdays, Sundays and overtime is \$45.00 per hour.

PART 10 - OPERATION AND MAINTENANCE OF SEWAGE PUMPING STATIONS

During Operational Acceptance period, the developer is responsible for the costs to operate and maintain all facilities. In accordance with some Public Works Utility Agreements, certain developers shall pay for the costs to operate and maintain sewage and pumping stations for a period of five (5) years. Harford County shall operate the pumping stations and shall backcharge the developer for all costs as follows:

1. Station operations labor costs shall be \$39.00 per hour. The rate for County holidays, Saturdays, Sundays and overtime shall be \$47.00/hour.
2. The electric usage bill shall be reimbursed by the developer.
3. All costs for material, equipment or subcontractors shall be reimbursed at cost.
4. The County will attempt to have the developer handle any and all repairs needed on a non-emergency basis and/or where equipment is still under developer warranty. The developer will receive two notices to accomplish the task.
 - a. Verbal from the Chief of Operations or his designee, and if not accomplished in ten work days.
 - b. Written from the Deputy Director or his designee, and if not accomplished in five work days.
 - c. The County will take whatever action necessary to rectify the situation.
 - d. Prior developer approval or notice will not be required if action must be taken by the County to protect the public or County life, property or well being due to an emergency situation.
5. The developer could be held liable for any damages claimed by the County, State or Federal Government due to sewage overflows as a direct result of the developers failure to act on a verbal or written order defined in 4.a. and 4b. above.

PART 11 - MASTER WATER AND SEWER PLAN UPDATE

Harford County shall update the Master Water and Sewerage Plan twice a year, March and September, through the Harford County Council. The deadline for requests for changes to the Plan is February 1 and August 1 and must be submitted in writing. Requests for revisions at any time other than the scheduled semi-annual updates will require a processing fee of Two Thousand Dollars (\$2,000.00).

PART 12-

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PART 13 - CHARGES FOR MAINTENANCE SECTION INVOLVEMENT IN DEVELOPER CONSTRUCTION PROJECTS

The Maintenance Section of the Division of Water and Sewer performs services on Developer construction projects as follows:

- A. Perform testing of water and sewer lines in accordance with the Harford County Standard Specifications and Details for Water Mains and Sanitary Sewers.
- B. Conduct Operational Acceptance inspection.
- C. Prepare a punch list and conduct Final Acceptance inspection.
- D. All costs for material, equipment or subcontractors shall be reimbursed at cost.
- E. The County will attempt to have the developer handle any and all repairs needed on a non-emergency basis and/or where equipment is still under developer warranty. The developer will receive two (2) notices to accomplish the task.
 - 1. Verbal from the Chief of Operations or Chief of Facilities or his designee, and if not accomplished in ten work days.
 - 2. Written from the Deputy Director or his designee, and if not accomplished in five work days.
 - 3. The County will take whatever action necessary to rectify the situation.
 - 4. Prior developer approval or notice will not be required if action must be taken by the County to protect the public or County life, property or well being due to an emergency situation.
- F. The developer could be held liable for any damages claimed by the County, State or Federal Government due to sewage overflows as a direct result of the developers failure to act on a verbal or written order defined in 4. A. and B. above.

Harford County will backcharge the developer for work performed at the rate of \$35.00 per hour.

PART 14 - METER INSTALLATION

Part 4, Section 11 provides for a flat rate usage charge for the period between municipal connection and meter installation.

Before issuance of a Use and Occupancy Permit, the Division of Water and Sewer shall install the meter. When the Division of Water and Sewer has difficulties obtaining access for meter installation, a certified letter shall be forwarded to the occupant. The occupant shall be allowed fifteen (15) days from receipt of letter to arrange for meter installation. Failure to arrange for meter installation shall result in turn-off of service with turn-off and turn-on fees, as established in Part 4, Section 5.e.

PART 15 - ACCESS TO METERS

- A. All customers shall maintain adequate access to meters for reading purposes. Shrubbery shall be pruned to allow meter reading. Any new construction such as decks, porches, and garages shall not hinder meter access and meters shall be relocated if required. A charge of \$37.00 per hour shall be charged for meter relocation and \$45.00 per hour for overtime.

When access is inadequate, the Division of Water and Sewer shall notify the customer by certified mail. The customer shall have thirty (30) calendar days to correct the reason for inadequate access. Failure to correct the inadequate access will result in turn-off of service with turn-off and turn-on fees as established in Part 4, Section 4.e.

- B. Harford County retains ownership of all water/sewer meters. It may be necessary from time to time to gain access to a customer's property for the purpose of repairing, retrofitting, checking or rereading a water meter and or appurtenances. The meter department will work with the customer in trying to set up a mutually satisfactory time for this work. Should the customer fail to admit our meter department personnel on their property for this purpose, a certified letter will be mailed to the customer giving them fifteen (15) days to set up an appointment. Failure to do so will result in termination of water/sewer services.

PART 16- SEPTIC TANK WASTE DISPOSAL

1. Septage - Any waste pumped from a septic tank or holding tank which contains wastewater from any person (County resident) other than an industrial user subject to the pretreatment requirements in Section 256-60.

Septage Discharge Permit - The permit a septage hauler must obtain before discharging septage to any wastewater treatment works.

Septage Hauler - Any person who hauls or transports septage that is discharged to a wastewater treatment works.

2. Each septage hauler shall pay an annual septage hauler fee by October 31 of each year. Upon payment of the septage hauler fee, submission of an application for a septage discharge permit which has been fully completed, submission of verification that all vehicles owned by a septage hauler and used for the transport of septage have passed the annual Harford County Health Department inspection, and upon compliance with all other laws, rules and regulations of the County and the State of Maryland, a septage hauler shall be issued a permit allowing him to discharge into a wastewater treatment works. Discharges shall be made only at such points approved for discharge pursuant to these rules and regulations. The permit shall run from November 1 of the year of issuance to October 31 of the following year.
3. Every vehicle used by a septage hauler to transport septage shall be inspected annually by the Harford County Health Department. A septage hauler must submit verification from the Harford County Health Department that each vehicle it uses to transport septage has passed this inspection. Identification tags shall be issued with each permit issued to a septage hauler for each vehicle which has passed the annual inspection of the Harford County Health Department. The identification tags shall be affixed to each vehicle discharging septage to a County-owned wastewater treatment works. Any vehicle which does not have the proper identification tags shall be refused permission to discharge at a wastewater treatment works. The identification tags shall be displayed on the vehicle.
4. No septage hauler shall discharge any septage into a wastewater treatment works unless the septage hauler has a valid septage discharge permit. The permit sticker shall be displayed on the windshield.
5. Unless provided by written notice to the contrary or of an additional acceptable discharge point, a septage hauler shall discharge septage only at the following receiving stations:

Sod Run Wastewater Plant

6. Each septage hauler shall prepare and submit a manifest form for each load of septage discharged to a wastewater treatment works. Manifest forms shall be obtained from:

Sod Run Wastewater
1212 Chelsea Road
Perryman, Maryland 21130

7. At a minimum, a manifest form shall identify the name and address of the origin/owner of any septage in a load; the truck discharging the septage and its capacity, the date of collection of the septage; the date of the discharge of the septage into a wastewater treatment works; the name of the driver of the truck who collected the load; the name of the driver of the truck when the load was discharged to the wastewater treatment works; and the signature of said drivers; and, if different, an authorized representative of the septage hauler.
8. A manifest form for each load of septage discharged shall be deposited at the Sod Run Wastewater Treatment Works Administration Building at the time each discharge is made.
9. A monthly treatment user charge bill shall be calculated from the manifest based on the quantity of septage discharged during the billing period. The quantity of discharge shall be determined by the capacity of the truck identified in the manifest. The bill shall be forwarded by the Harford County Treasurer to the hauler. Should the hauler decide to be charged for a partial load, the hauler may request Sod Run operations personnel to inspect the truck prior to discharge. The quantity in a partial load shall be estimated to the nearest 500 gallons by the Sod Run operations personnel based on his observations of the glass level indicating tube on the truck. The operator shall note the estimated amount of the discharge on the manifest and initial the manifest. The septage hauler is responsible for properly installing and maintaining the sight glass level indicating tube on each of his vehicles, and if there is any indication that the sight glass level indicating tube is not properly functioning, the hauler shall be charged for a full load.
10. Violation of the conditions of a septage discharge permit, failure to pay an outstanding bill, failure to submit a manifest for each load or partial load discharged, and any violation of County law shall result in termination of a septage discharge permit and the penalties established by Harford County Code Section 27-70. A fee of One Hundred Fifty Dollars (\$150.00) shall be charged to a hauler who discharges without a manifest.
11. The entrance gate to the Sod Run Wastewater Treatment Plant shall be open from 6:00 a.m. to 11:00 p.m. each day. For emergency discharges between 11:00 p.m. and 6:00 a.m., call 272-4647 to request gate opening. A septage hauler shall notify the Sod Run Wastewater Treatment staff at the Administration Building of any operational difficulties at a receiving station.
12. A septage hauler shall process septage from a holding tank as follows:
 - a. The septage hauler shall submit the name and address of the owner of the holding tank to the Sod Run Staff, or such other person as designed by the Division of Water & Sewer per written communication;
 - b. The septage hauler shall submit the verification of the Harford County Health Department requirement concerning the frequency of holding tank pumping;

- c. The septage hauler shall identify on the manifest form the name and address of the owner of the holding tank and shall note on the manifest the words "holding tank". Bills for loads from holding tanks shall be based on the current sewer usage fee, not the current septage charge fee.
13. A recreation vehicle may discharge at a septage discharge receiving station upon payment of a treatment fee of Three Dollars (\$3.00) at the Sod Run Wastewater Treatment Works Administration Building prior to discharge.
14. A septage hauler shall be prohibited from discharging septage exhibiting any of the characteristics defined in Article VIII of the County Code.
- a. Septage with pH less than 6.0 units (acids);
 - b. Septage with pH greater than 9.0 units (alkalies such as lye, caustic solutions);
 - c. Petroleum oils;
 - d. Flammable septage containing such items as gasoline, paint thinner, toluene, benzene or other volatile organic compounds;
 - e. Septage containing solids greater than one-half inch in diameter;
 - f. Septage containing rocks, stones, gravel and sand;
 - g. Toxic pollutants as the term is defined by the Environmental Protection Agency in the rules and regulations to the Clean Water Act found at 40 C.F.R. Section 401.15 and 40 C.F.R. Part 403, Appendix B.
15. If a septage hauler has any reason to believe that a load of septage contains any prohibited substances or any other substance, the hauler is prohibited from discharging pursuant to his permit or County law. The septage hauler shall notify:
- Ed Williams
Pretreatment Inspector
Sod Run Wastewater Treatment Plant
1212 Chelsea Road
Perryman, Maryland 21130
410-272-4647
16. Any load of septage hauler believes may contain any prohibited substance shall be inspected by Sod Run staff prior to discharge.

PART 17 - FIRE HYDRANT POLICIES AND PROCEDURES - Revised 02/04

- I. POLICY: It is the policy of Harford County Department of Public Works Division of Water and Sewer to cooperate with the Harford County Volunteer Fire and Emergency Medical Services (VFEMS) Association in the placement, use, etc. of fire hydrants. In accordance with this policy, the following criteria for fire hydrants is set forth and all previous policies applicable to fire hydrants established by the Department of Public Works shall be replaced and superseded by this policy.

- II. PROCEDURE:
 - A. General
 1. These Hydrant Policies and Procedures are to serve as a guide and standard for new installations and replacements of all private and public hydrants in Harford County.
 2. Hydrants shall be located where possible, in patterns approved by the Fire Chief or a duly authorized representative in his first due response area.

 - B. Review & Approval
 1. Any subdivision drawings submitted to the Development Advisory Committee shall include the nearest existing public fire hydrant locations. The VFEMS Association shall have a representative review and comment on this submittal through the Development Advisory Committee (DAC) process.
 2. When construction plans are received by the Division of Water and Sewer for review, a representative thereof will inform the VFEMS's appointed DAC representative that there are plans available for review. Within seven (7) working days after the Division of Water and Sewer has notified the assigned VFEMS DAC representative, he or his acting alternate shall review any and all fire hydrant locations. Two sets of plans will be available for pick-up at the Division of Water and Sewer Engineering office at 212 South Bond Street, Bel Air, Maryland (between the hours of 8:00 a.m. and 5:00 p.m. weekdays). The VFEMS DAC representative will review the drawings with the Fire Chief within the service area of the project. One set of the construction plans is to be returned for record at the Division of Water and Sewer office with all comments in writing and every sheet of that set signed and dated. If review is not completed by the VFEMS DAC representative or his acting alternate within seven (7) working days after notification by the Division of Water and Sewer, the review drawings will be noted as such and the Department of Public Works will make the final decision on the hydrant locations.

3. Any comments made by the VFEMS DAC representative or his acting alternate that are not acceptable to the Division of Water and Sewer or the Design Engineer shall be explained to the representative who has signed the review set of plans.
4. No water construction plans will be signed by the Deputy Director of the Division of Water and Sewer or by the Director of Public Works until proper notification has been made to an authorized representative of the Harford County VFEMS Association
5. Fire Hydrants and appurtenances shall be designed, furnished and installed in accordance with the Division of Water and Sewer Standard Specifications and Details, Design Guidelines and as indicated on the construction plans.

C. Fire Flow Criteria

The design engineer of the subdivision design drawings shall be responsible for verifying that hydrants within the subdivision meet the County's fire flow criteria outlined below:

1. 500 G.P.M. for detached single family residential uses or for institutional uses less than 4,000 square feet.
2. 1,000 G.P.M. for institutional uses between 4,000 and 12,000 square feet.
3. 1,500 G.P.M. for single family attached and multi-family residential uses and institutional uses between 12,000 and 40,000 square feet.
4. 1,500 G.P.M. for a use that is permitted in B1, B2, B3 or ORI zoning categories excluding residential uses.
5. 2,500 G.P.M. for a use that is permitted in the CI or GI zoning categories.

All fire hydrant flows outlined above shall be attained during a two-hour fire event with minimum 20 psi residual pressure and a concurrent maximum service day demand.

D. Testing and Maintenance

1. Fire hydrants shall be flushed, lubricated and checked for proper operations yearly by Harford County Division of Water and Sewer.
2. All hydrants being placed in service or taken out of service for any reason shall be reported to the EOC by phone immediately and documented via facsimile during working hours.

3. Out of service hydrants shall be marked with a red reflector ring at least 12 inches in diameter attached to the steamer connection.
4. Hydrants shall be painted with approved yellow paint and repainted as required.
5. A record of fire hydrant flow tests shall be kept by the Division of Water and Sewer.

E. Operation

1. The only personnel authorized to operate fire hydrants in the Harford County system and/or draw water from them are:
 - a. Members of the Harford County Division of Water and Sewer.
 - b. Members of fire companies when on official duty.
 - c. Persons or entities who meet all of the following criteria:
 - i. have obtained permission;
 - ii. have received instructions;
 - iii. have registered a construction meter with the Division of Water and Sewer; and
 - iv. are using the meter in a fashion consistent with the permission, the instructions and any applicable laws, rules and regulations.
2. A fee of \$500.00 shall be charged for unauthorized use.

F. Requirements of Local Fire Departments

1. Use correct wrench when operating fire hydrants.
2. Open and close fire hydrants slowly to prevent water hammer (pressure surges) in the lines.
3. Always operate hydrants in the full open position – DO NOT ATTEMPT TO THROTTLE A HYDRANT.
4. Check for drain-down from barrel after any fire hydrant closing.
 - a. Critical condition is when temperature is 32 degrees and lower.
 - b. Report any non-drain immediately at 410-612-1612 (or fax #410-612-1614).

5. Report any damage as soon as possible to Water and Sewer Maintenance Section, 410-612-1612.
6. There shall be no restrictions on the use of hydrants for emergency situations (which includes occasional non-scheduled testing of equipment); however, any time a public Harford County fire hydrant is used for a fire event, the following steps should be followed:
 - a. Notify the EOC with:
 - i. date
 - ii. location
 - iii. type of use
 - iv. time started
 - v. Time shut down
 - b. Fill-out completely, the Hydrant Use Log Form and return it to the Division of Water and Sewer Engineering Office at 212 S. Bond Street, 2nd Fl., Bel Air, Maryland.
7. Any time a public Harford County fire hydrant is to be used for a training exercise or testing equipment, the following steps should be followed:
 - a. Contact the Division of Water and Sewer Abingdon Water Treatment Plant at 410-638-3939 between the hours of 8:00 a.m. and 3:00 p.m. weekdays, at least 2 working days in advance of the proposed use to request approval of the location and date.
 - i. The County reserves the right to cancel the test at any time in the event of an unanticipated emergency or operating condition.
 - ii. In the event of a drought emergency, a training exercise will be performed only with a written waiver from the County's drought coordinator.
 - b. Notify the EOC with
 - i. date
 - ii. location
 - iii. type of use
 - iv. time started
 - v. time shut-down
 - c. Fill-out complete, the Hydrant Use Form and return it to the Division of Water and Sewer Engineering Office to the address or by e-mail as noted on the Form.

8. Report any un-metered, non-approved use of hydrants to the Water and Sewer Maintenance Section - 612-1612, such as:
 - a. Construction sites (plumbers, block layers, etc.)
 - b. Lawn care companies
 - c. Pool suppliers
 - d. Anyone other than local fire company

PART 18 RECOUPMENTS AND SURCHARGES

Index of Recoupments and Surcharges:

	<u>Project Number:</u>	<u>Date Established:</u>	<u>Page Number:</u>
1. Hazleton System Pumping Station and Sewer Main Recoupment		7/31/1985	18.1-1
2. Route 22 and Route 543 Water Recoupment	9096	8/6/1985	18.2-1
3. Cranberry Run Water Extension Recoupment	9103	2/19/1986	18.3-1
4. Edgewood Meadows Parallel Recoupment	6312	5/8/1986	18.4-1
5. Harford Square Pumping Station Recoupment	9127	5/8/1986	18.5-1
6. Bynum Run Interceptor Extension	9129	11/7/1986	18.6-1
7. Brentwood Park Offsite Water Extension Recoupment	9244	11/12/1986	18.7-1
8. Temple Hills Interceptor Recoupment	9172	11/12/1986	18.8-1
9. Vale Road Water Tank Surcharge	6451	11/12/1986	18.9-1
10. Fourth Zone Booster Station Surcharge	6475	2/23/1988	18.10-1
11. Winter's Run Interceptor and Country Walk Pumping Station Policy		1988	18.11-1
12. Bynum Run Interceptor Parallel	6387	1989	18.12-1
13. Hookers Mill Road Water Recoupment	9445	9/27/1989	18.13-1
14. Durham Manor Offsite Sewer Extension Recoupment	9530	5/8/1990	18.14-1
15. Plumtree Run Pumping Station Upgrade Surcharge	6483	9/4/1990	18.15-1
16. Cranberry Run Offsite Sewer Extension Recoupment	9680	4/29/1991	18.16-1
17. Edgewood II Interceptor Recoupment	9617	5/22/1991	18.17-1
18. Harford Estates Pumping Station Recoupment	9549	2/4/1992	18.18-1
19. Forest Lakes Offsite Water Extension Recoupment	9743	4/14/1992	18.19-1
20. Durham Manor Offsite Water Extension Recoupment	9529	7/27/1992	18.20-1
21. Joppa Magnolia Sewer Surcharge	6400	11/16/1992	18.21-1
22. Plumtree Estates II Pumping Station Recoupment	9580	2/19/1993	18.22-1
23. Oak Avenue Water Extension	9822	8/5/1993	18.23-1
24. Brentwood Park Pumping Station Upgrade Surcharge		2/1994	18.24-1
25. Johnson/Sewell Road Water Extension Recoupment		3/10/1995	18.25-1
26. Longmeadow II Offsite Sewer Extension Recoupment	9480	3/17/1995	18.26-1
27. Longmeadow II Water Extension Recoupment	9479	3/17/1995	18.27-1
28. Joppatowne Pumping Station No. 47 Ultimate Upgrade Recoupment		5/23/1995	18.28-1
29. Lohr's Orchard Offsite Sewer Extension Recoupment	9824	5/23/1995	18.29-1
30. Hickory Overlook Pumping Station Recoupment	9992	6/8/1995	18.30-1
31. Evergreen Heights Pumping Station Recoupment	9669	7/14/1995	18.31-1
32. Evergreen Heights Pumping Station Recoupment	9670	8/15/1995	18.32-1
33. Bynum Run Collector Sewer Policy		11/1995	18.33-1
34. Franz Property Water Extension Recoupment		10/2/1996	18.34-1
35. Church Creek Sewage Pumping Station Upgrade Policy		2/1/1997	18.35-1
36. Gray's Run Collector Sewer Policy		2/1/1997	18.36-1

Index of Recoupments and Surcharges:

	<u>Project Number:</u>	<u>Date Established:</u>	<u>Page Number:</u>
37. Rite Aid Route 22 and Route 543 Offsite Sewer Recoupment	19052	2/4/1997	18.37-1
38. Hickory Collector Section 1 Recoupment	9826	10/16/1997	18.38-1
39. Plumtree Collector Sewer Policy		12/1/1997	18.39-1
40. Hickory Collector Section 2 Recoupment	19173	4/14/1998	18.40-1
41. Joppa Area Sewer Offsite Utility Recoupment		7/28/1998	18.41-1
42. Towne Center Drive Pumping Station Improvements Recoupment	4134	3/12/1999	18.42-1
43. Leeswood Garth Parallel Sewer Policy		5/1/1999	18.43-1
44. Washington Avenue Pumping Station Recoupment	9835	5/19/1999	18.44-1
45. Hidden Stream Section 1 Recoupment	9631	1/19/2000	18.45-1
46. Ah-Ha Collector Sewer Relief Policy		4/2000	18.46-1
47. Edgewood Interceptor Sewer Extension Phase 1	19429	12/28/2001	18.47-1
48. Harford Square Collector Sewer Phase I Recoupment	19436	10/24/2002	18.48-1
49. Joppa-Magnolia Sewer Policy		6/3/2003	18.49-1
▪ Edgewood Interceptor Sewer Extension Phase III			18.49-3
▪ Foster Branch Collector Sewer Phase I			18.49-4
▪ Foster Branch Collector Sewer Phase II			18.49-6
50. Monmouth Meadows Phase 4 Sewer Recoupment	19457	11/17/2003	18.50-1
51. Old Trails Pumping Station Recoupment	19580	7/31/2006	18.51-1
52. Bear Cabin Branch Sewage Pumping Station Policy		10/05/2006	18.52-1
53. West Aberdeen Water and Sewer Policy		07/2007	18.53-1
54. Richardson's Legacy Phase 1 Sewer Replacement	19542	3/28/2011	18.54-1
55. Ring Factory Sewage Pumping Station Policy		3/28/2011	18.55-1
56. Beechtree Collector Sewer Section 1 Recoupment	19635	04/03/12	18.56-1
57. Frey's Road Low Pressure Sewer Recoupment	19645	04/12/12	18.57-1
58. West Aberdeen Interceptor Sewer Recoupment	19001	04/26/12	18.58-1
59. Bynum Ridge Collector Sewer Policy		11/15/2013	18.59-1
60. Magness Overlook Offsite Gravity Sewer Recoupment	19735	11/15/2014	18.60-1
61. Hickory Area Collector Sewer Policy		8/27/2018	18.61-1
62. Reckord Road Pumping Station Policy		7/15/2019	18.62-1

1. Hazleton System Pumping Station and Sewer Mains Recoupment (HZ1)
 - (PWUA date: 7/31/1985)
 - The term of the recoupment was established to continue until \$121,379.00 has been recovered.
 - This project is for the purchase of one of the on-site pumping stations and a portion of the sewer line that is located within the existing County right-of-way on the north side of U.S. Route 40 from Hazleton Systems, aka Harford System, Inc.
 - The recoupment charge to be paid by each owner/user, excluding the units developed by Hazleton Systems, who desires to be served by the pumping station and sewer mains shall be as follows:
 - Sewer service from the petitioned area shall pay a sum which will be determined by the following formula: \$140,729.00 multiplied by the fraction which results from the division of the number of equivalent units in the petitioned area plus 55.
 - A residential dwelling unit outside of the petitioned area shall pay \$200.00 per unit
 - A nonresidential connection outside of the petitioned area shall pay \$200.00 per number of sets of hook-up charges as calculated by PART 4 of the Rules & Regulations.
 - Aberdeen City Sewer customers, which flow to this pumping station shall pay the recoupment charge at the time of payment of the water hook-up charges are paid to the County. County customers will pay the recoupment charge at the time all other sewer hook-up charges are collected.

2. Route 22 and Route 543 Water Recoupment Project 9096 (RT1, RT2)
- (PWUA date: 8/6/1985)
 - The term of the recoupment was established to continue until \$238,400.00 or approximately 80% of the project cost has been recovered.
 - This project extended water service from a terminus on and along Route 22 to Fountain Green and East on Route 543 to the Foxborough Farms development.
 - The recoupment charge to be paid by each owner/user, excluding the units developed in the Foxborough Farms Development, who desires to be served by the water main shall be as follows:
 - A residential dwelling unit shall pay \$300.00 per unit
 - A nonresidential connection shall pay \$500.00 per number of sets of hook-up charges as calculated by PART 4 of the Rules & Regulations.
 - The recoupment charge shall be collected at the time all other hook-up charges are paid.

3. Cranberry Run Water Extension Recoupment Project 9103 (CR1)
- (PWUA date: 2/19/1986)
 - The term of the recoupment was established to continue until 67% of the project cost has been recovered as determined by the cost affidavit.
 - This water project was installed to serve the Cranberry Run Business Center and specific nearby parcels. The project consisted of approximately 1,700 feet of 12" water line beginning at the intersection of Perryman Road (Route 159) and Old Philadelphia Road (Route 7) extending East on Old Philadelphia Road.
 - The recoupment charge to be paid by each user, other than the Developer's property, who desires to be served by the water facilities constructed as described in the PWUA shall be as follows:
 - A residential dwelling unit shall pay \$120.00 per unit
 - A nonresidential connection shall pay \$120.00 per number of sets of hook-up charges as calculated by in PART 4 of the Rules & Regulations.
 - The recoupment charge shall be collected at the time all other hook-up charges are paid.

4. Edgewood Meadows Parallel Recoupment Project 6312 (EM1)
- (PWUA date: 5/8/1986)
 - The term of the recoupment was established to continue until \$74,635.00 or approximately 59% of the project cost has been recovered.
 - This project parallels an existing sewer interceptor from MD Rt. 24 along Winter's Run to Edgewood Meadows. This project consisted of approximately 1,925 feet of off-site sanitary sewer line.
 - The recoupment charge to be paid by each user, other than the Developer's property, who desires to be served by the sewer facilities constructed as described in the PWUA shall be as follows:
 - A residential dwelling unit shall pay \$143.00 per unit
 - A nonresidential connection shall pay \$143.00 per number of sets of hook-up charges as calculated by PART 4 of the Rules & Regulations.
 - The recoupment charge shall be collected at the time all other hook-up charges are paid.

5. Harford Square Pumping Station Recoupment Project 9127 (HS1)
- (PWUA date: 5/8/1986)
 - The term of the recoupment was established to continue until \$14,000.00 or approximately 20% of the project cost has been recovered.
 - The developer of the property known as Woodbridge Center was required to upgrade the existing Harford Square sewage pumping station to a capacity which will handle a minimum of two hundred seventy-nine dwelling units of Woodbridge Center, seventy additional dwelling units within the existing pumping station service area and maintain the existing flows currently being served by the pumping station.
 - The recoupment charge to be paid by each user other than the Developer's property who desires to be served by the pumping station constructed as described in the PWUA shall be as follows:
 - A residential dwelling unit shall pay \$200.00 per unit
 - A nonresidential connection shall pay \$200.00 per number of sets of hook-up charges as calculated by PART 4 of the Rules & Regulations.
 - The recoupment charge shall be collected at the time all other hook-up charges are paid.

6. Bynum Run Interceptor Extension Project 9129 (BI1, BI2, BI3, BI4)
- This Recoupment is closed as of 5/2002. The maximum recoupment amount was reached.

 - (Second Addendum PWUA date: 11/7/1986)
 - The term of the recoupment was established to continue until 60% of the project cost has been recovered as determined by the cost affidavit.
 - This project shall extend the Bynum Run Interceptor from its terminus near Bynum Run to a service area at the Route 24 and Route 23 intersection near Forest Hill.
 - The Second Addendum specified the recoupment charge to be paid by each user, other than the Developer's property, who desires to be served by the sewer facilities shall be as follows:
 - A residential dwelling unit shall pay \$450.00 per unit
 - A nonresidential connection shall pay \$3,000.00 per building connection.
 - All individual users shall pay the recoupment charge at the time all other hook-up charges are paid. All future development projects shall pay the recoupment charge in a lump sum for all lots to be developed under the applicable Public Works Utility Agreement(s).

 - (Third Addendum PWUA date: 4/23/1998)
 - The term of the recoupment was established to continue until the project cost has been recovered as established by the original cost affidavit.
 - The Third Addendum dated April 23, 1998 created an "Additional Recoupment Area". The recoupment charge to be paid by all properties within the Additional Recoupment Area as shown on Exhibit "D" from the Third Addendum shall be as follows:
 - A residential dwelling unit shall pay \$45.00 per unit
 - A nonresidential connection shall pay \$300.00 per building connection.
 - All individual users shall pay the recoupment charge at the time all other hook-up charges are paid. All future development projects shall pay the recoupment charge in a lump sum for all lots to be developed under the applicable Public Works Utility Agreement(s).

7. Brentwood Park Offsite Water Extension Recoupment Project 6244 (BP1)
- This Recoupment is closed as of 3/2001. The maximum recoupment amount was reached.
 - (PWUA date: 11/12/1986)
 - The term of the recoupment was established to continue until 70% of the project cost has been recovered as determined by the cost affidavit.
 - This project includes installation of a water line on Red Pump Road and sewer line on St. Francis Drive.
 - The recoupment charge to be paid by each user, excluding the units developed in the Brentwood Park Development and excluding the units developed in the Valewood Acres Development and excluding the units developed in the Vale Hills Development and excluding the units developed in the Durham Manor Development, who desires to be served by the sewer facilities constructed as described in the PWUA shall be as follows:
 - A residential dwelling unit shall pay \$47.00 per unit
 - A nonresidential connection shall pay \$47.00 per number of sets of hook-up charges as calculated by PART 4 of the Rules & Regulations.
 - The recoupment charge shall be collected at the time all other hook-up charges are paid.

8. Temple Hills Interceptor Recoupment Project 9172 (TH1)
- (PWUA date: 11/12/1986)
 - The term of the recoupment was established to continue until \$257,137.00 or approximately 92.5% of the project cost has been recovered.
 - This project includes the installation of a sewer line along Wheel Road from a point near Laurel Bush Road to the Bynum Run Interceptor.
 - The recoupment charge to be paid by each user, excluding the units developed in Temple Hills, who desires to be served by the sewer main shall be as follows:
 - A residential dwelling unit shall pay \$232.00 per unit
 - A nonresidential connection shall pay \$232.00 per number of sets of hook-up charges as calculated by PART 4 of the Rules & Regulations.
 - The recoupment charge shall be collected at the time all other hook-up charges are paid.

9. Vale Road Water Tank Surcharge Project 6415 (VR1)
- (established 11/12/1986)
 - The monies acquired from this surcharge shall be specifically used to off-set the County's capital cost of the construction of the water tank and water main.
 - This project constructed a .75 million gallon water tank on Vale Road near U.S. Rt. 1 Bypass and a 16-inch water line to provide adequate fire flows to future developments.
 - The surcharge shall be paid by each user who directly benefits from the construction of water tank located on Vale Road and is provided adequate fire flows as follows:
 - As of February 1, 2007 a residential dwelling unit shall pay \$425.00 per unit.
 - As of February 1, 2004 a nonresidential connection shall pay \$425.00 per number of sets of hook-up charges as calculated by PART 4 of the Rules & Regulations.
 - The surcharge shall be collected at the time all other hook-up charges are paid.
 - From November 12, 1986 through December 31, 1991 the amount of the surcharge shall be \$250.00 for each unit. Beginning January 1, 1992, in accordance with the General Rules and Regulations for the Division of Water and Sewer, as amended, this surcharge fluctuates yearly with the Engineering News Record Construction Index for the succeeding year measured. The adjusted surcharge will become effective on February 1st each year.

10. Fourth Zone Booster Station Surcharge Project 6475 (FZ1)
- (established 2/23/1988)
 - The monies acquired from this surcharge shall be used to off-set the capital cost of providing sufficient water flow to service properties within the “4th Hydraulic Zone”.
 - This project shall provide Fourth Zone service to various properties unable to obtain Third Zone service.
 - The surcharge shall be \$215.00 for each unit through December 31, 1992. Beginning January 1, 1993, in accordance with the General Rules and Regulations for the Division of Water and Sewer, as amended, this surcharge fluctuates yearly with the Engineering News Record Construction Index for the succeeding year measured. The adjusted surcharge will become effective on February 1st each year.
 - As of February 1, 200 a residential dwelling unit shall pay \$339.00 per unit.
 - As of February 1, 2004 a nonresidential connection shall pay \$339.00 per number of sets of hook-up charges as calculated by PART 4 of the Rules & Regulations.
 - The surcharge shall be collected at the time all other hook-up charges are paid.

11. Winter's Run Interceptor and Country Walk Pumping Station Policy (WR1, WR2, WR3, WR4, CW1)
- Policy (established 1988)

 - Section A: (PWUA date: 12/13/1988)
 - The term of the recoupment was established to continue until the project cost of \$660,000, as outlined in the Policy, has been reached.
 - Section A will build approximately 3,450 feet of the Winter's Run Interceptor from existing terminus at South Branch to North Branch.
 - The recoupment charge to be paid by each user, other than the Developer's property, who is identified in this Policy and is required to pay shall be as follows:
 - A residential dwelling unit shall pay \$205.00 per unit
 - A nonresidential connection shall pay \$205.00 per number of sets of hook-up charges as calculated by PART 4 of the Rules & Regulations.
 - All individual users shall pay the recoupment charge at the time all other hook-up charges are paid. All future development projects shall pay the recoupment charge in a lump sum for all lots to be developed under the applicable Public Works Utility Agreement(s).

 - Section B: (PWUA date: 11/17/1994)
 - The term of the recoupment was established to continue until the project cost of \$735,000 as outlined in the Policy has been reached.
 - Section B will build approximately 3,850 feet of the Winter's Run Interceptor from North Branch to Singer Road.
 - The recoupment charge to be paid by each user, other than the Developer's property, who is identified in this Policy and is required to pay shall be as follows:
 - A residential dwelling unit shall pay \$330.00 per unit
 - A nonresidential connection shall pay \$330.00 per number of sets of hook-up charges as calculated by PART 4 of the Rules & Regulations.
 - All individual users shall pay the recoupment charge at the time all other hook-up charges are paid. All future development projects shall pay the recoupment charge in a lump sum for all lots to be developed under the applicable Public Works Utility Agreement(s).

 - Section C: (PWUA date: 5/6/1998)
 - The term of the recoupment was established to continue until the project cost of \$230,000 as outlined in the Policy has been reached.
 - Section C will build approximately 1,200 feet of the Winter's Run Interceptor from Singer Road to the terminus of Winter's Run.
 - The recoupment charge to be paid by each user, other than the Developer's property, who is identified in this Policy and is required to pay shall be as follows:
 - A residential dwelling unit shall pay \$115.00 per unit
 - A nonresidential connection shall pay \$115.00 per number of sets

of hook-up charges as calculated by PART 4 of the Rules & Regulations.

- All individual users shall pay the recoupment charge at the time all other hook-up charges are paid. All future development projects shall pay the recoupment charge in a lump sum for all lots to be developed under the applicable Public Works Utility Agreement(s).
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- Section D: (PWUA date: 10/14/2004)
- The term of the surcharge was established to continue until the project cost of \$175,000 as outlined in the Policy has been reached.
- Section D will build approximately 3,100 feet of sewer main from Winter's Run terminus to Village of McLean.
- The surcharge charge to be paid by each user, who is identified in this Policy and is required to pay shall be as follows:
 - A residential dwelling unit shall pay \$90.00 per unit
 - A nonresidential connection shall pay \$90.00 per number of sets of hook-up charges as calculated by PART 4 of the Rules & Regulations.
- All individual users shall pay the surcharge charge at the time all other hook-up charges are paid. All future development projects shall pay the surcharge charge in a lump sum for all lots to be developed under the applicable Public Works Utility Agreement(s).
- Country Walk Pumping Station: (PWUA date: 10/2/1992)
- The term of the recoupment was established to continue until the project cost of \$590,000 as outlined in the Policy has been reached.
- This work includes conversion of the Country Walk Pumping Station, force main and gravity connection to Village of McLean and a gravity sewer line from the Bel Air South Pumping Station.
- The recoupment charge to be paid by each user, other than the Developer's property, who is identified in this Policy and is required to pay shall be as follows:
 - A residential dwelling unit shall pay \$480.00 per unit
 - A nonresidential connection shall pay \$480.00 per number of sets of hook-up charges as calculated by PART 4 of the Rules & Regulations.
- All individual users shall pay the recoupment charge at the time all other hook-up charges are paid. All future development projects shall pay the recoupment charge in a lump sum for all lots to be developed under the applicable Public Works Utility Agreement(s).

The Winter's Run Interceptor is shown on the drawing following this description. The following proposed subdivisions shall utilize this interceptor:

- | | | |
|----|---------------------|-----------------------|
| 1. | Constant Friendship | (approx. 1,000 units) |
| 2. | Village of McLean | (approx. 1,000 units) |
| 3. | Swanke Property | (approx. 200 units) |

4. Violet McLean Property (approx. 200 units)
5. Country Walk (approx. 563 units)
6. Proposed Future School (approx. 30 units)

The Country Walk (565 units) and Violet McLean (200 units and approximately 200 units of Village of McLean shall be served through the Country Walk Pumping Station located on Village of McLean's Property. This location is required to allow Village of McLean's 200 units to be served by the pumping station by gravity flow (i.e. without a second pumping station). The station shall be built by Country Walk. The Country Walk pumping station shall also provide for the abandonment of the Bel Air South pumping station and shall provide capacity for the following subdivisions:

1. Gardens of Bel Air South (452 units)
2. Evergreen Farms (160 units)
3. White Property (33 units)
4. Valley View (44 units)

The size of the interceptor, various other sewer lines and the Country Walk Pumping Station shall be for the units estimated above in accordance with Harford County Design Guidelines.

The facilities shall be entirely developer financed with the exception of some County contribution for the abandonment of the Bel Air South Pumping Station.

The estimated costs of the various facilities are as follows:

1. Section A, Winter's Run Interceptor from existing terminus at South Branch to North Branch - \$660, 000.
2. Section B, Winter's Run Interceptor from North Branch to Singer Road - \$735,000.
3. Section C, Winter's Run Interceptor from Singer Road to terminus - \$230,000.
4. Section D, sewer line from Winter's Run Terminus to Village of McLean - \$175,000.
5. Country Walk Pumping Station
 - a. Pumping Station (including conversion) \$305,000
 - b. Force Main and Gravity connection to Village of McLean 100,000
 - c. Gravity Sewer Line from Bel Air South 225,000

\$630,000

County contribution for
Bel Air South -40,000

\$590,000

Various recoupments/surcharges shall be established for the various facilities as follows:

1. Section A shall have 3232 units connected. Therefore, recoupment/surcharge is \$660,000 - 3232 equals \$205 per unit.
2. Section B shall have 2232 units connected. Therefore, recoupment/surcharge is \$735,000 - 2232 equals \$330 per unit.
3. Section C shall have 2032 units connected. Therefore, recoupment/surcharge is \$115.
4. Section D shall have 2032 units connected. Therefore, recoupment/surcharge is \$90 per unit.
5. Country Walk Pumping Station shall have 1232 units connected. Therefore, recoupment/surcharge is \$590,000 - 1232 equals \$480 per unit.

The Country Walk development shall be allowed a pump-over through Bel Air South to the Bynum Run Interceptor until the Winter's Run Interceptor is constructed. Any costs associated with the temporary pump over (i.e. temporary force main) shall be borne by the developer with no recoupment. Additionally, the developer shall escrow \$130,000 to construct the force main and gravity sewer (\$100,000) and convert the pumps (\$30,000). The conversion shall be accomplished by the Country Walk Developer.

Country Walk shall then be allowed to proceed with development before construction of the Winter's Run Interceptor. They shall pay Winter's Run surcharges for each portion or section of the development for all lots within that section. Upon completion of the Winter's Run Interceptor, the Country Walk Developer shall immediately pay for its entire contribution to the Winter's Run Interceptor and shall convert the pumping station to the Winter's Run Interceptor.

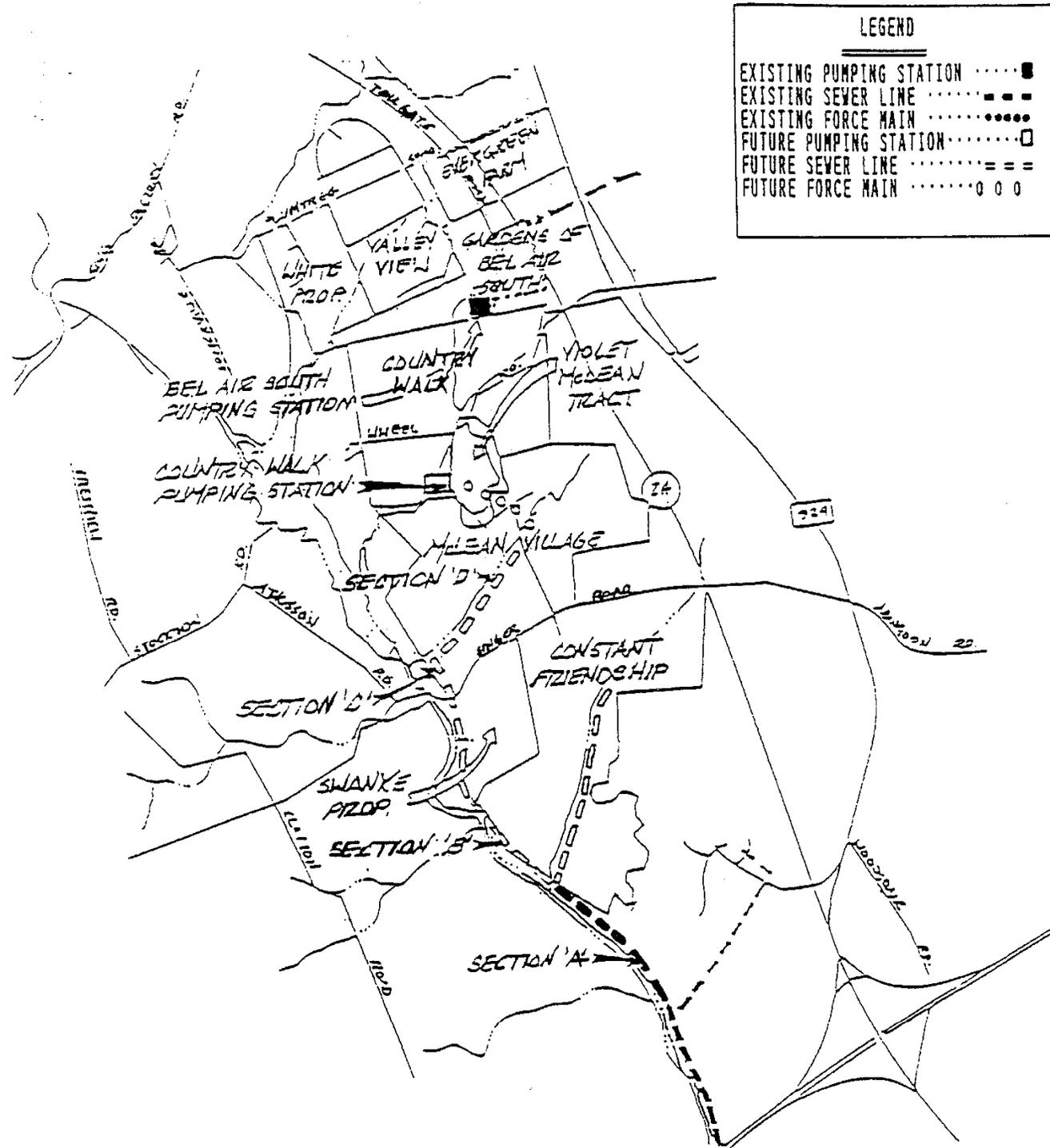
Other developments (i.e. portion of Village of McLean, Swanke Tract, Violet McLean Tract, Valley View, Evergreen Farm and White Property) shall pay their entire development surcharges/recoupment at time of connection.

Anticipated surcharge/recoupment to be paid by each developer is shown on the table following this description.

Decisions by different developers shall determine the sequence of construction and funding arrangement. In general, the following guidelines for surcharges/recoupments shall be used:

1. A developer or combination of developers shall up front construction of one more of the various facilities.

2. Whenever any other development first connects to Harford County sewer, they shall pay their full development surcharge/recoupment, i.e. surcharge/ recoupment for all lots. The exception is Country Walk which shall pay the surcharge for lots in any section and pays full surcharge for Winter's Run immediately after it is completed.
3. The surcharges/recoupments are best and final estimates and shall be used for Public Works Agreements with all developments. No adjustments shall be made for actual costs either above or below estimated costs. Also, no adjustment shall be made for inflation over the years to follow.
4. The surcharges/recoupments shall be established into the Rules and Regulations of the Division of Water and Sewer.
5. Any developer shall pay the surcharge/recoupment for actual units connected. The units in this policy statement for the various developments are estimates only



LEGEND	
EXISTING PUMPING STATION■
EXISTING SEWER LINE- - -
EXISTING FORCE MAIN●●●●
FUTURE PUMPING STATION□
FUTURE SEWER LINE= = =
FUTURE FORCE MAINo o o

WINTER'S RUN INTERCEPTOR

FACILITY AND COST	UNITS SERVED	SURCHARGE RECOUPMENT	CONSTANT FRIENDSHIP 1000 UNITS	VILLAGE OF MCLEAN 1000 UNITS	SWANKE PROPERTY 200 UNITS	VIOLET MCLEAN 200 UNITS	COUNTRY WALK 565 UNITS	FUTURE SCHOOL 30 UNITS	EVERGREEN FARM 160 UNITS	WHITE PROPERTY 33 UNITS	VALLEY VIEW 44 UNITS
SECTION A 3450 FT. WINTER'S RUN INTERCEPTOR \$660,000	3232	\$205	\$205,000	\$205,000	\$41,000	\$41,000	\$115,825	\$6,150	\$32,800	\$6,755	\$9,020
SECTION B 3850 FT. WINTER'S RUN INTERCEPTOR \$735,000	2232	\$330	\$0	\$330,000	\$66,000	\$66,000	\$186,450	\$9,900	\$52,800	\$10,830	\$14,520
SECTION C 1200 FT. WINTER'S RUN INTERCEPTOR \$230,000	2032	\$115	\$0	\$115,000	\$0	\$23,000	\$64,975	\$3,450	\$18,400	\$3,735	\$5,050
SECTION D 3100 FT. TO VILLAGE OF MCLEAN \$175,000	2032	\$90	\$0	\$90,000	\$0	\$18,000	\$50,850	\$2,700	\$14,400	\$2,970	\$3,960
COUNTRY WALK PUMPING STATION INCLUDING FORCE MAIN & GRAVITY LINE FROM BEL AIR SOUTH \$630,000-\$40,000 = \$590,000	1232	\$480	\$0	(200 UNITS) \$96,000	\$0	\$96,000	\$271,200	\$14,400	\$76,800	\$15,840	\$21,120
	TOTAL COST		\$205,000	\$836,000	\$107,00	\$244,000	\$689,300	\$36,600	\$195,200	\$40,130	\$53,670
	TOTAL SURCHARGE RECOUPMENT				\$535/Unit	\$1220/Unit	\$740/Unit	\$1220/Unit	\$1220/Unit	\$1220/Unit	\$1220/Unit

12. Bynum Run Interceptor Parallel Project 6387 (B15)

- This Surcharge is closed as of 5/2002.

- (established 1981)
- The term of this surcharge was established to continue until the project cost for the parallel line has been recovered, at which time the surcharge shall cease.
- This project shall parallel the existing Bynum Run Interceptor from Del Haven to the Harford County Detention Center.
- The surcharge paid by each user whose sewage flows through this portion of the Bynum Run Interceptor shall be as follows:
 - A residential dwelling unit shall pay \$250.00 per unit
 - A nonresidential connection shall pay \$250.00 per number of sets of hook-up charges as calculated by PART 4 of the Rules & Regulations.
- The surcharge shall be collected at the time all other hook-up charges are paid.
- From December 1, 1981 through December 31, 1987 the amount of the surcharge shall be \$250.00 for each unit. Beginning January 1, 1988, in accordance with the General Rules and Regulations for the Division of Water and Sewer, as amended, the surcharge shall fluctuate yearly with the Engineering News Record Construction Index for the succeeding year measured. The adjusted surcharge will become effective on February 1st each year.

13. Hookers Mill Road Water Recoupment Project 9445 (HM1)

- This Recoupment is closed as of 11/29/1998. The recoupment term expired.
- (PWUA date: 9/5/1995)
- The term of recoupment was established to be 10 years from November 29, 1988 or until \$17,850.00 or approximately 10% of the project cost has been recovered, whichever is first.
- This project constructed approximately 3,500 feet of 12 inch water main on Hookers Mill Road East from Abingdon Road.
- The recoupment charge to be paid by each user, excluding the units developed in the Village of Bynum Run Section I, Village of Bynum Run Section II, Bynum Run Estates and Bynum Overlook developments, who desires to be served by the water facilities constructed as described in the PWUA shall be as follows:
 - A residential dwelling unit shall pay \$350.00 per unit
 - A nonresidential connection shall pay \$350.00 per number of sets of hook-up charges as calculated by PART 4 of the Rules & Regulations.
- The recoupment charge shall be collected at the time all other hook-up charges are paid.

14. Durham Manor Offsite Sewer Extension Recoupment Project 9530 (DM1)
- (PWUA date: 5/8/1990)
 - The term of the recoupment was established to continue until 75% of the project cost has been recovered as determined by cost affidavit.
 - This project was constructed to serve the Durham Manor development and specific neighboring properties. The project consisted of approximately 1,100' of 12" and 15" gravity sewer line along Red Pump Road.
 - The recoupment charge to be paid by each user, excluding the units developed in the Durham Manor Development, who desires to be served by the sewer facilities constructed as described in the PWUA shall be as follows:
 - A residential dwelling unit shall pay \$115.00 per unit
 - A nonresidential connection shall pay \$115.00 per number of sets of hook-up charges as calculated by PART 4 of the Rules & Regulations.
 - The recoupment charge shall be collected at the time all other hook-up charges are paid.

15. Plumtree Run Pumping Station Upgrade Project 6483 (PR1)
- (established 9/4/1990)
 - The term of this surcharge was established to continue until the project cost for the Plumtree Run Sewage Pump Station has been recovered, at which time the surcharge shall cease.
 - The Plumtree Run Sewage Pump Station is part of the Bynum Run sewage system presently serving a portion of the Town of Bel Air and Harford County along the MD Rt. 24 corridor, immediately South of the limits, bounded by Rt. 24. This project will upgrade the existing pump station capacity from an average of 2.14 million gallons per day to 8.056 mgd.
 - The surcharge to be paid by each user who desires to be served by the Plumtree Run Sewage Pump Station shall be as follows:
 - A residential dwelling unit shall pay \$800.00 per unit
 - A nonresidential connection shall pay \$800.00 per number of sets of hook-up charges as calculated by PART 4 of the Rules & Regulations.
 - The surcharge shall be collected at the time all other hook-up charges are paid.

16. Cranberry Run Offsite Sewer Extension Recoupment Project 9680 (CR2)
- (PWUA date: 4/29/1991)
 - The term of the recoupment was established to continue until \$217,515.00 or approximately 59% of the project cost has been recovered.
 - This sewer extension was installed to serve The Clorox project and the surrounding drainage area excluding those bordering the Aberdeen City limits.
 - The recoupment charge to be paid by each user, excluding the properties owned by the Clorox Company, who desires to be served by the sewer facilities constructed as described in the PWUA shall be as follows:
 - A residential dwelling unit shall pay \$255.00 per unit
 - A nonresidential connection shall pay \$255.00 per number of sets of hook-up charges as calculated by PART 4 of the Rules & Regulations.
 - The recoupment charge shall be collected at the time all other hook-up charges are paid.

17. Edgewood II Interceptor Recoupment Project 9617 (EI1, EI4, EI5)

- (Second Addendum PWUA date: 8/30/2004)
- The term of the recoupment was established to be 20 years or until \$853,374.00 or approximately 82% of the project cost from the Second Addendum has been recovered.
- This project shall extend sewer services parallel with Railroad Avenue to the Greater Harford Industrial Park which lies between Maryland Route 24 and Magnolia Road, South of Trimble Road.
- The recoupment charge to be paid by each user, excluding the Development known as Greater Harford Industrial Park, who desires to be served by the sewer facilities constructed as described in the original PWUA shall be as follows:
 - A residential dwelling unit shall pay \$1,730.00 per unit
 - A nonresidential connection shall pay \$1,730.00 per number of sets of hook-up charges as calculated by PART 4 of the Rules & Regulations.
 - Except for the development known as “Trimble Woods” shall pay a recoupment charge of \$292.00 per residential unit.
- The recoupment charge shall be collected at the time all other hook-up charges are paid.

18. Harford Estates Pumping Station Recoupment Project 9549 (HE1)

- (PWUA date: 2/4/1992)
- The term of the recoupment was established to continue until \$527,773.00 or approximately 50% of the project cost has been recovered as determined by the cost affidavit. In addition, the developer shall receive up to a maximum of two-thirds of the actual cost for design and construction of a soundproofing system for the pumping station, said two-thirds not to exceed \$40,000.00.
- The developer of the residential community known as Durham Manor was required to abandon and replace the existing facilities with a new and more efficient pumping station for which the drainage area was Harford Estates, Forest Lakes, and Durham Manor located off of Bernadette Drive and Cabin Branch Creek.
- The recoupment charge to be paid by each user, excluding the Development of Durham Manor, who desires to be served by the sewer pump station constructed as described in the PWUA shall be as follows:
 - A residential dwelling unit shall pay \$858.00 per unit
 - A nonresidential connection shall pay \$858.00 per number of sets of hook-up charges as calculated by PART 4 of the Rules & Regulations.
- The recoupment charge shall be collected at the time all other hook-up charges are paid.

19. Forest Lakes Offsite Water Extension Recoupment Project 9743 (FL1)
- (PWUA date: 4/14/1992)
 - The term of the recoupment was established to continue until \$30,576.00 or approximately 39% of the project cost has been recovered.
 - This project provides a water line along Rock spring Road (Maryland Route 24) and provides availability of water service to more than 400 units other than the developer's project.
 - The recoupment charge to be paid by each user, excluding the Development of Forest Lakes, who desires to be served by the water facilities shall be as follows:
 - A residential dwelling unit shall pay \$108.00 per unit
 - A nonresidential connection shall pay \$108.00 per number of sets of hook-up charges as calculated by PART 4 of the Rules & Regulations.
 - The recoupment charge shall be collected at the time all other hook-up charges are paid.

20. Durham Manor Offsite Water Project 9529 (DM2)

- (First Addendum PWUA date: 7/27/1992)
- The term of the recoupment was established to continue until \$11,270.00 or approximately 19.6% of the project cost has been recovered.
- This project provides fire flow to the Durham Manor development and specific nearby parcels. The water line consists of approximately 1,020 □ feet of 12" line along Maryland Route 24 starting at Red Pump Road.
- The recoupment charge to be paid by each user, excluding the units developed in the Durham Manor Development, who desires to be served by the water facilities constructed as described in the First Addendum PWUA shall be as follows:
 - A residential dwelling unit shall pay \$335.00 per unit
 - A nonresidential connection shall pay \$335.00 per number of sets of hook-up charges as calculated by PART 4 of the Rules & Regulations.
- The recoupment charge shall be collected at the time all other hook-up charges are paid.

21. Joppa Magnolia Sewer Surcharge Project 6400 (JM1/JM2)

- (established 11/16/1992)
- This surcharge was established by legislation, Harford County Code Section 256-45.3, for every sewer connection which utilizes facilities constructed by Sewer Capital Project 6400.
- For purposes of determining whether the surcharge shall apply, a property shall be deemed to utilize facilities constructed by Sewer Capital Project 6400 if it is part of or in total, one of the shaded properties depicted on Exhibit A.
- The surcharge to be paid by each user who desires to be served by Sewer Capital Project 6400 shall be as follows:
 - A residential dwelling unit shall pay \$3,325.00 per unit
 - A nonresidential connection shall pay \$6,000.00 per number of sets of hook-up charges as calculated by PART 4 of the Rules & Regulations.
- The surcharge shall be collected at the time all other hook-up charges are paid.



22. Plumtree Estates II Pumping Station Recoupment Project 9580 (PE1)

- (PWUA date: 2/19/1993)
- The term of recoupment was established to continue until \$79,277.25 or approximately 57% of the project cost has been recovered.
- The developer of Plumtree Estates II was required to design and construct a pumping station to serve 45 existing units in the Valley View and Plumtree Estates II Developments. This project is located off of Royal Fern Court in Plumtree Estates II Development.
- The recoupment charge to be paid by each user, excluding the units developed in Plumtree Estates II, who desires to be served by the pumping station as described in the PWUA shall be as follows:
 - A residential dwelling unit shall pay \$1,687.00 per unit
 - A nonresidential connection shall pay \$1,687.00 per number of sets of hook-up charges as calculated by PART 4 of the Rules & Regulations.
- The recoupment charge shall be collected at the time all other hook-up charges are paid.

23. Oak Avenue Water Extension Project 9822 (OA1)

- This Recoupment is closed as of 8/5/2003. The term of the recoupment expired.
- (PWUA date: 8/5/1993)
- The term of recoupment was established to be 10 years or until 55% of the project cost has been recovered as determined by the cost affidavit, whichever is first.
- The developer of a parcel of land located on Pulaski Highway for retail/service use was required to design and construct a water main and appurtenances, etc. extending approximately One Hundred and Eighty-Six linear feet (186 lf) bore and jack under Maryland Route 40.
- The recoupment charge to be paid by each user, excluding the units developed in the development Lands of Harold Beavers, who desires to be served by the water facilities constructed as described in the PWUA shall be as follows:
 - A residential dwelling unit shall pay \$1,551.00 per unit
 - A nonresidential connection shall pay \$1,551.00 per number of sets of hook-up charges as calculated by PART 4 of the Rules & Regulations.
- The recoupment charge shall be collected at the time all other hook-up charges are paid.

24. Brentwood Park Pumping Station Upgrade Surcharge (BP2)

- (established 2/1994)
- The purpose of this Surcharge is to provide funding to upgrade the safe-pumping capacity of the existing facility as necessary to meet the demands of the ultimate build-out within the sewer shed. It is anticipated that this work would be completed when Parcel 330 on Tax Map 40 (property known as the Graybeal parcel) is developed.
- The work shall include, but is not necessarily limited to, the following:
 - Remove existing pumps and replace with new pumps.
 - Modify suction and discharge to suit new pumps.
 - Remove existing generator, underground fuel tank and associated piping and wiring.
 - Modify existing base slab and install new generator and automatic transfer switch.
 - Install new main breaker, line breakers, and wiring as necessary.
 - Clean and restore station including painting of inside of pump chamber, floor, new piping and pumps.
- The surcharge to be paid by each user who desires to be served by the Brentwood Park Pumping Station shall be as follows:
 - A residential dwelling unit shall pay \$690.00 per unit
 - A nonresidential connection shall pay \$690.00 per number of sets of hook-up charges as calculated by PART 4 of the Rules & Regulations.
- The surcharge shall be collected at the time all other hook-up charges are paid.

Calculation for Surcharge Amount:

The basic estimate for the work is:	\$108,091.00
Engineering, Administration and Inflation = 20% of basic estimate:	<u>\$21,618.20</u>
Total estimated cost of project:	\$129,709.20
Total estimated number of future units within the sewer shed =	188
Cost per residential unit = \$129,709.20 divided by 188 equals	\$689.94
	say \$690.00

25. Johnson/Sewell Road Water Extension Recoupment (JS1)

- This Recoupment is closed as of 3/10/2005. The term of the recoupment expired.
- (PWUA date: 3/10/1995)
- The term of the recoupment was established to be 10 years or until \$731.00 or approximately 75% of the project cost has been recovered, whichever is first.
- The Owners of 3805 Sewell Road entered into a Public Works Utility Agreement (PWUA) with the County to extend a public water main so that their property could be adequately served by the public water system.
- The recoupment charge to be paid by each user, excluding the units developed on Parcel 138, who desires to be served by the subject water line as described in the PWUA shall be as follows:
 - A residential dwelling unit shall pay \$121.00 per unit
 - A nonresidential connection shall pay \$121.00 per number of sets of hook-up charges as calculated by PART 4 of the Rules & Regulations.
- The recoupment charge shall be collected at the time all other hook-up charges are paid.

26. Longmeadow II Offsite Sewer Extension Recoupment Project 9480 (LM2)

- This Recoupment is closed as of 3/17/2005. The term of the recoupment expired.
- (Addendum date: 3/17/1995)
- The term of the recoupment was established to be 10 years or until \$21,543.00 or approximately 72% of the project cost as outlined in the Addendum has been recovered, whichever is first.
- The developer of the residential community known as Longmeadow II was required to design and construct a sewer main and appurtenances, etc. extending approximately Four Hundred and Sixty linear feet (460 lf) from the Longmeadow I Subdivision.
- The recoupment charge to be paid by each user, excluding the units developed in Longmeadow II Development, who desires to be served by the sewer facilities constructed as described in the PWUA shall be as follows:
 - A residential dwelling unit shall pay \$501.00 per unit
 - A nonresidential connection shall pay \$501.00 per number of sets of hook-up charges as calculated by PART 4 of the Rules & Regulations.
- The recoupment charge shall be collected at the time all other hook-up charges are paid.

27. Longmeadow II Water Extension Recoupment Project 9479 (LM1)

- This Recoupment is closed as of 3/17/2005. The term of the recoupment expired.
- (Addendum date: 3/17/1995)
- The term of the recoupment was established to be 10 years or until \$11,140.00 or approximately 60% of the project cost as outlined in the Addendum has been recovered, whichever is first.
- The developer of the residential community known as Longmeadow II was required to design and construct a water main and appurtenances, etc. extending approximately Six Hundred and Three linear feet (603 lf) along Henderson Road.
- The recoupment charge to be paid by each user, excluding the units developed in Longmeadow II Development, who desires to be served by the water facilities constructed as described in the PWUA shall be as follows:
 - A residential dwelling unit shall pay \$452.00 per unit
 - A nonresidential connection shall pay \$452.00 per number of sets of hook-up charges as calculated by PART 4 of the Rules & Regulations.
- The recoupment charge shall be collected at the time all other hook-up charges are paid.

28. Joppatowne Pumping Station No. 47 Ultimate Upgrade Recoupment (JP1)

- (PWUA date: 5/23/1995)
- The term of the recoupment was established to be 20 years or until \$223,230.00 or approximately 55.4% of the project cost as outlined in the PWUA has been recovered, whichever is first.
- The developer of the community of Lohr's Orchard was required to replace and rehabilitate the existing Joppatowne Sanitary Subdistrict Sewage Pumping Station Number 47 with associated force mains and gravity sewers to allow the pumping station to transmit sewage from the Lohr's Orchard Development as well as other Developments and adjoining parcels in the sewage drainage shed as described in the Public Works Utility Agreement (PWUA) executed on May 23, 1995 between Harford County and Joppatowne Farms Limited Partnership.
- The recoupment charge to be paid by each user, excluding those units developed in the Lohr's Orchard Development and excluding properties served by County sewer as of the date of the PWUA, who desires to be served by the pumping station and force main shall be as follows:
 - A residential dwelling unit shall pay \$809.00 per unit, except as otherwise noted in the PWUA.
 - A nonresidential connection shall pay \$809.00 per number of sets of hook-up charges as calculated by PART 4 of the Rules & Regulations.
- The recoupment charge shall be collected at the time all other hook-up charges are paid.

29. Lohr's Orchard Offsite Sewer Extension Recoupment Project 9824 (LO1)
- (PWUA date: 5/23/1995)
 - The term of the recoupment was established to be 20 years or until \$24,070.00 or approximately 100% of the project cost as outlined in the PWUA has been recovered, whichever is first.
 - The developer of the residential community known as Lohr's Orchard designed and constructed Five Hundred and Seventy-Seven linear feet (577 lf), more or less, of eight inch (8") gravity sanitary sewer from the near corner of lots 34 and 35 to manhole 50 located on the north side of Trimble Road as shown on contract 9824.
 - The recoupment charge to be paid by each user who desires to be served by the sewer facilities constructed as described in the PWUA shall be as
 - A residential dwelling unit shall pay \$395.00 per unit
 - A nonresidential connection shall pay \$395.00 per number of sets of hook-up charges as calculated by PART 4 of the Rules & Regulations.
 - The recoupment charge shall be collected at the time all other hook-up charges are paid.

30. Hickory Overlook Pumping Station Recoupment Project 9992 (HO1)
- This Recoupment is closed as of 6/8/2005. The term of the recoupment expired.
 - (PWUA date: 6/8/1995)
 - The term of the recoupment was established to be 10 years or until 56% of the project cost has been recovered as determined by the cost affidavit, whichever is first.
 - The developer of the community of Hickory Overlook was required to design and construct a sewage pumping station, force main and gravity sewer running along Route 1 to the Upper Bynum Parallel as shown on contract 9992.
 - The recoupment charge to be paid by each user, excluding those units developed in the Hickory Overlook Development, who desires to be served
 - A residential dwelling unit shall pay \$1,050.00 per unit
 - A nonresidential connection shall pay \$1,050.00 per number of sets of hook-up charges as calculated by PART 4 of the Rules & Regulations.
 - The recoupment charge shall be collected at the time all other hook-up charges are paid.

31. Evergreen Heights Pumping Station Recoupment Project 9669 (EH1)
- This Recoupment is closed as of 7/14/2005. The term of the recoupment expired.

 - (PWUA date: 7/14/1995)
 - The term of the recoupment was established to be 10 years or until \$73,440.00 or approximately 30% of the project cost has been recovered, whichever is first.
 - The developer of the community of Barrington was required to design and construct a sewage pumping station to serve an area located between two existing sewerage system service areas.
 - The recoupment charge to be paid by each user, excluding those units developed in the Barrington Development, who desires to be served by the pumping station shall be as follows:
 - A residential dwelling unit shall pay \$1,224.00 per unit
 - A nonresidential connection shall pay \$1,224.00 per number of sets of hook-up charges as calculated by PART 4 of the Rules & Regulations.
 - The recoupment charge shall be collected at the time all other hook-up charges are paid.

32. Evergreen Heights Pumping Station Recoupment Project 9670 (EH2)
- This Recoupment is closed as of 8/15/2005. The term of the recoupment expired.
 - (PWUA date: 8/15/1995)
 - The term of the recoupment was established to be 10 years or until the project cost of \$25,087.00 as outlined in the PWUA has been recovered, whichever is first.
 - The developer of the Plumtree Station Office Building was required to contribute to the design and construct a sewage pumping station and force main to serve an area located between two existing sewerage system service areas.
 - The recoupment charge to be paid by each user, excluding those units developed in the Plumtree Station Office Building, who desires to be served by the pumping station shall be as follows:
 - A residential dwelling unit shall pay \$133.00 per unit
 - A nonresidential connection shall pay \$133.00 per number of sets of hook-up charges as calculated by PART 4 of the Rules & Regulations.
 - The recoupment charge shall be collected at the time all other hook-up charges are paid.

33. Bynum Run Collector Sewer Policy (BC1, BC2, BC3, BC4, BC5)
- (Policy established 11/1995)

The purpose of this policy statement is to identify what improvements are required to the Bynum Run Collector Sewer, to determine when they are required and to allocate the costs associated with them. The limits of the collector sewer which are covered by this document are from Sewer System Capacity (SSCAP) Model Manhole 200 to Manhole 223, as shown on Harford County Contract Numbers 4002, 4012, and 6010, as shown on Exhibit A.

The SSCAP, when applied according to the Adequate Public Facilities section of the County Code, indicates that relief is needed in almost every run of sewer from Manhole 200 to 223. Certain sections of the sewer line, however, have more capacity than others. Therefore, timing of the required improvements is critical to the orderly build-out of the sewer shed.

It is the intent of this policy to have all of the remaining potential connections that will utilize the sewers to be paralleled contribute an equal share of the cost of the improvements based upon a dollar amount per equivalent flow unit. Any connections made to the sewer system after six months of the effective date of this policy, whose sewage will flow through the lines described by this policy, will be required to pay the appropriate recoupment/surcharge as outlined herein. The only exception shall be that petitions approved prior to the effective date of this policy shall not be subject to the recoupments of the policy. The term of the recoupment agreements shall be twenty (20) years or until the project cost, as estimated in Exhibit "B", has been recovered and forwarded to the developer by Harford County, whichever is first. The project costs, as determined by Exhibit B, and the surcharge/recoupment cost per unit are fixed by this policy and are the basis for the recoupment computations contained in Exhibit C. The amount of contribution or recoupment available to reimburse the developer who constructs each section is dependent upon the actual number of units connected.

Upon the certification of a developer that it is unable to acquire the right-of-way necessary for the construction of the requisite parallel sewer by way of negotiation, and subject to legislative approval, Harford County will acquire the right-of-way pursuant to its power of eminent domain. If the developer elects to have Harford County acquire the aforementioned right-of-way, then he shall forfeit to Harford County the right to recoup the \$25,000 easement acquisition cost as identified in Exhibit E.

The required work has been broken down into three parallel sewer projects as identified on the recoupment chart and is more particularly described below. The known proposed subdivisions affected by the policy are listed separately in the calculations of the units for the parallel sewer projects.

Section 1:

Parallel Sewer from Manhole Runs 223 to 218A

- This Recoupment is closed as of 2/5/2004. The maximum recoupment amount was reached.
- (PWUA Section 1 date: 5/15/1997)
- Term of the recoupment was established to be 20 years or until the project cost of \$285,887.00 as outlined in the Policy has been recovered, whichever is first.
- This section required a parallel sewer from Manhole runs 223 to 218A of the Upper Upper Bynum Run Interceptor.
- The recoupment charge to be paid by each user who desires to be served by the sewer facilities constructed as described in the Policy shall be as follows:
 - A residential dwelling unit shall pay \$265.00 per unit
 - A nonresidential connection shall pay \$265.00 per number of sets of hook-up charges as calculated by PART 4 of the Rules & Regulations.
- The recoupment charge shall be collected at the time all other hook-up charges are paid.

Castle Blaney	103
Spenceola Phase II	332
Kleins (Deer Spring)	210
Forest Hill Business Park, Section 3 and 4	148
Unconnected Units in Background Flow (See Exhibit E)	404
Other Properties Benefited Within the Development Envelope (See Exhibit C, Note #3) (See Exhibit D)	<u>592</u>
Total	1789 Units

There are 550 equivalent units remaining in the present reserve capacity of the manhole runs listed above. The 404 equivalent units that are in background flow in accordance with the Adequate Public Facilities requirements are not included in the 550 equivalent units remaining in the present reserve capacity of the sewers. The development of the 404 equivalent units will not reduce the 550 units in the present reserve capacity of the sewer. The section of parallel sewer described above is intended to be built by the developer of the Castle Blaney Subdivision at no cost to the County. The design of the sewer shall be performed at the same time as the on-site utility design. The cost of an alignment study, preparation of record or easement plats, and the design of this section of sewer may be reimbursed from funds collected pursuant to this policy after substantial completion of each activity. The construction of the parallel sewer shall be performed concurrent with the utility work for the second section of the Castle Blaney Subdivision. If the County receives a request from one of the above listed property

owners for a PWUA that would include the 550th unit and the developer of Castle Blaney has not posted the performance bond for the construction of the parallel sewer, the requested agreement shall include the provisions for the design, construction and bonding of the same parallel sewer. In any case, no more than 550 units may connect before the parallel sewer is completed and made operational in writing by the County.

Six months after the effective date of this policy, the owners of every lot which will eventually transmit sewage through this parallel sewer system shall pay recoupment charges at the time all other hookup charges are paid to the County.

The cost of the above described project, as well as the surcharge/recoupment amount for each unit which is benefited by this project, can be found on Table 1 of this policy statement.

Section 2:

Parallel Sewer from Manhole Runs 218A to 216 and

- (PWUA Section 2 date: 5/6/1999)
- Term of the recoupment was established to be 20 years or until the project cost of \$224,497.00 as outlined in the Policy has been recovered, whichever is first.
- This section required a parallel sewer from Manhole runs 218A to 216 of the Upper Upper Bynum Run Interceptor.
- The recoupment charge to be paid by each user who desires to be served by the sewer facilities constructed as described in the Policy shall be as follows:
 - A residential dwelling unit shall pay \$192.00 per unit
 - A nonresidential connection shall pay \$192.00 per number of sets of hook-up charges as calculated by PART 4 of the Rules & Regulations.
- The recoupment charge shall be collected at the time all other hook-up charges are paid.

Marshall Drive Diversion Sewer

- (PWUA Marshall Drive Diversion Sewer date: 3/18/1997)
- Term of the recoupment was established to be 20 years or until the project cost of \$27,414.00 as outlined in the Policy has been recovered, whichever is first.
- This section is the Marshall Drive Diversion Sewer.
- The recoupment charge to be paid by each user who desires to be served by the sewer facilities constructed as described in the Policy shall be as follows:
 - A residential dwelling unit shall pay \$23.00 per unit
 - A nonresidential connection shall pay \$23.00 per number of sets of hook-up charges as calculated by PART 4 of the Rules & Regulations.
- The recoupment charge shall be collected at the time all other hook-up charges

are paid.

Units from Paragraph 1. above	1789
Unconnected Units in Background Flow	<u>103</u>
(See Exhibit E) Total	1892 units

There are 350 equivalent units remaining in the present reserve capacity of the manhole runs listed above. The 103 equivalent units that are in background flow in accordance with the Adequate Public Facilities requirements are not included in the 350 equivalent units remaining in the present reserve capacity of the sewers. The development of the 103 equivalent units will not reduce the 350 units in the present reserve capacity of the sewers. The construction of the Marshall Drive Diversion Sewer will add the equivalent of an additional 170 equivalent units to the available capacity of this section of sewer. Therefore, when the diversion sewer has been constructed, there will be total reserve capacity of 520 equivalent units.

All of the flow from Spenceola Farms, Phase I, will be diverted through the Marshall Drive Diversion Sewer, with the exception of Section 4, which shall connect to the sanitary sewer system at the intersection of Bynum Road and Bynum Ridge Road. The Marshall Drive Diversion Sewer is intended to be designed and constructed by the developer of Phase I of the Spenceola subdivision. Construction of the diversion sewer must commence with the utility work which will serve the 100th unit within Spenceola Phase I, Sections 2 and 3. In any case, no more than 350 units may be constructed until the Marshall Drive Diversion Sewer has been constructed and declared operational, in writing, by the County.

The design and construction of the parallel sewer from Manholes 218A to 216 is intended to be performed by the developer of Spenceola Farms, Phase II Subdivision concurrent with the construction of the on-site utilities required to serve the 150th unit. The cost of an alignment study, preparation of record or easement plats, and the design of this section of sewer may be reimbursed from funds collected pursuant to this policy after substantial completion of each activity. In any case, no more than 520 new units may flow through the existing sewer between Manhole 218A and 216 until both the diversion sewer and the above described parallel has been completed.

Six months after the effective date of this policy, the owners of every lot which will eventually transmit sewage through this parallel sewer system shall pay recoupment charges at the time all other hookup charges are paid to the County.

The cost of the above described project, as well as the surcharge/recoupment amount for each unit which is benefited by this project can be found on Table 1 of this policy statement.

Section 3:

Parallel Sewer from Manhole Runs 208 to 206 and 205 to 200

- This Surcharge is closed as of 5/17/2007.
- This section required a parallel sewer from Manhole runs 208 to 206 and Manhole Runs 205 to 200 of the Upper Upper Bynum Run Interceptor.
- The Surcharge to be paid by each user who desires to be served by the sewer facilities constructed as described in the Policy shall be as follows:

- A residential dwelling unit shall pay \$393.00 per unit
- A nonresidential connection shall pay \$393.00 per number of sets of hook-up charges as calculated by PART 4 of the Rules & Regulations.
- The surcharge shall be collected at the time all other hook-up charges are paid.

All units from Paragraphs 1. and 2. above	1892	
Spenceola Phase I, Sections 2 and 3	230	
Spenceola Phase I, Section 4	172	
Other Properties Benefited Within the Development Envelope (See Exhibit C, Note #3) (See Exhibit D)	<u>90</u>	
Total		2384 Units

There are 608 equivalent units remaining in the present reserve capacity of the manhole runs listed above. The sections of parallel sewer described above shall be built by the developer of the Deer Spring Subdivision, Forest Hill Business Center Sections 3 and 4, or Spenceola Phase II. To avoid delays resulting from a need for permit approvals and easement acquisition, it is recommended that a preliminary alignment study and design of the parallel sewer, to include plats and permit applications, be initiated at the earliest opportunity. If the County has collected \$30,000 in recoupment charges applicable to Section 3 of the Bynum Run Collector Sewer Parallel, then the design of Section 3 must be performed concurrent with the first section of on-site drawings that will provide service to no more than 65 units of the aforementioned three proposed subdivisions. If the design of the first section of not more than 65 units of the aforementioned subdivision has progressed without the concurrent design of Section 3 of the Bynum Run Collector Sewer Parallel, then the Public Works Utility Agreement for the next section of any of the aforementioned subdivisions will include a requirement that the design will be completed concurrent with the design of the on-site utilities. The monies collected to fund the design and construction of Section 3 may be used to reimburse the developer(s) after each of the following project activities have been completed:

1. Alignment study - including alternatives
2. Record and easement plat preparation
3. Engineering drawings - including but not limited to design drawings and all required permit applications.

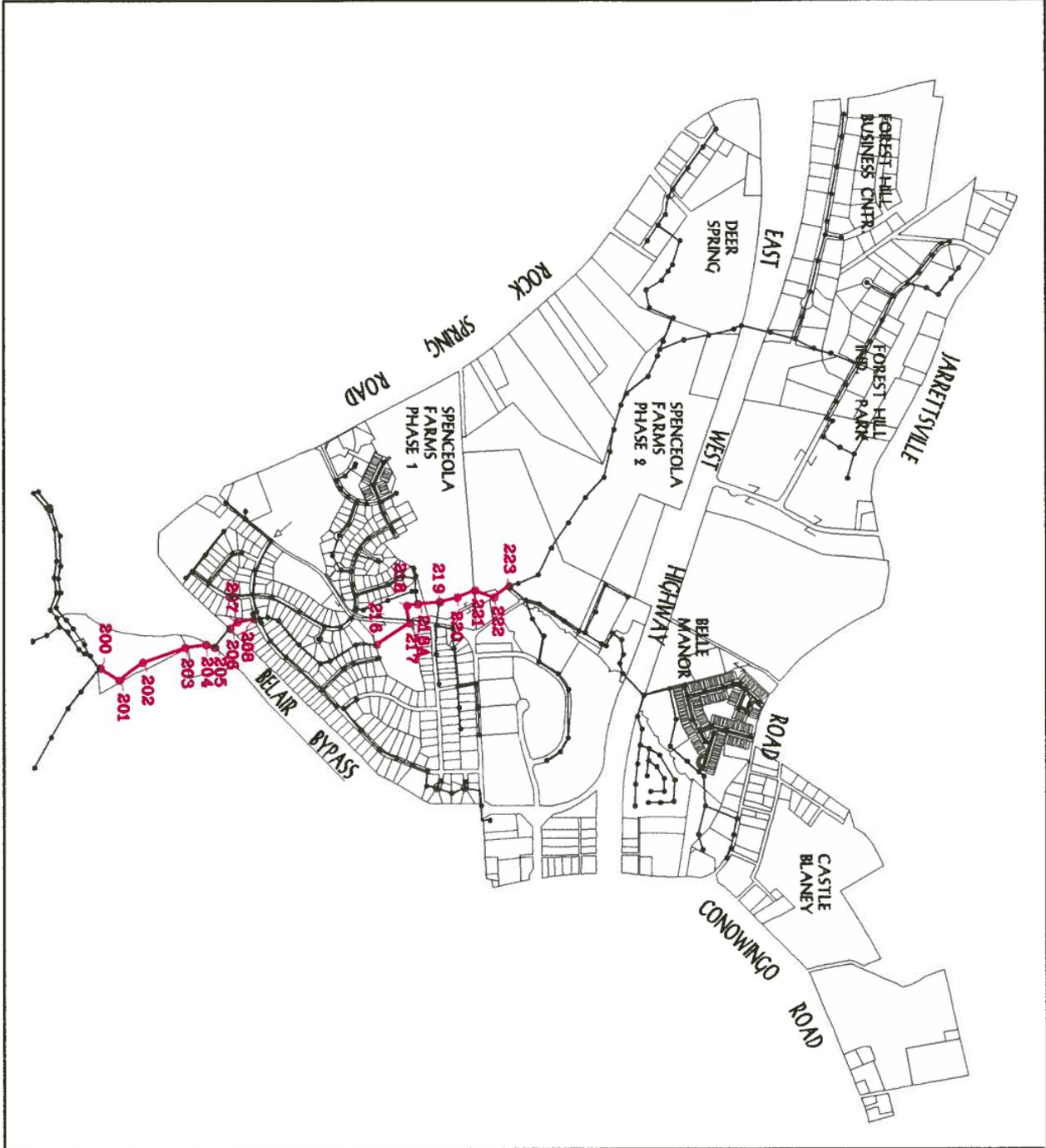
After the final alignment of the parallel sewer has been approved by the County and the developer(s) has been reimbursed for the work, subsequent changes in the alignment, for any reason, shall be at the sole cost of the developer(s).

The County will execute a Public Works Utility Agreement for the developments of Castle Blaney, Spenceola Farms Phase 1, Section 3 and part of Section 2, and an additional 150 units without requiring construction of the parallel sewer from Manhole 208 to 206 and 205 to 200. The capacity of 230 units allocated to Spenceola Phase 1, Sections 2 and 3 through Section III of the Bynum Run Collector Sewer Parallel may be transferred to Spenceola Phase 1, Section 4, subject to the consent of Harford County. The Public Works Utility Agreement

which includes the 151st unit beyond the subdivisions specifically noted above shall include a provision which requires construction of this section of parallel sewer concurrent with the construction of the on-site water and sewer facilities. The County will not approve utility drawings which serve the 151st unit beyond the subdivisions specifically noted above, until every permit necessary for the construction of the parallel sewers, as well as all required drainage and utility easements have been acquired. In any case, when the Public Works Utility Agreement which would include the 500th new equivalent unit which will flow through these lines is written, it must include provisions for the design, construction and posting of a performance bond for the parallel sewers listed above. Construction of the parallel sewers must begin with the construction of the utilities which will serve the 550th new equivalent unit. The sewers must be completed before the utilities which will serve the 608th equivalent unit is made operational.

Six months after the effective date of this policy, the owners of every lot which will eventually transmit sewage through this parallel sewer system shall pay recoupment charges at the time all other hookup charges are paid to the County.

The cost of the above described project, as well as the surcharge/recoupment amount for each unit which is benefited by this project can be found on Table 1 of this policy statement.



HARFORD COUNTY , MD

DEPARTMENT OF
PUBLIC WORKS
DIVISION OF
WATER AND SEWER

EXBIHT "A"

BYNUM RUN
COLLECTOR SEWER POLICY STATEMENT

Exhibit B

Cost Estimate for Upper, Upper Bynum Run Interceptor

Item	Description	Quantity	Unit	Unit Cost	Total Cost
MH 218 - MH 216:					
1.	Engineering	455	mn hrs	60.00	\$27,300.00
2.	Easement Acquisition	1	ls	25,000.00	\$25,000.00
3.	Sewer (12" C-905 PVC)				
	-clearing & grubbing	1	ac	5,000.00	\$3,627.18
	-pipe	783	lf	32.00	\$25,056.00
	-manholes	34	vlf	200.00	\$6,800.00
	-junction chamber	1	ea	1,800.00	\$1,800.00
	-mat construction	0	ls	0.00	\$0.00
4.	Other				
	-8" pipe	0	lf	30.00	\$0.00
	-paving repair	0	sy	50.00	\$0.00
	-traffic control	0	ls	2,000.00	\$0.00
	-abandon/plug manhole	0	ls	1,200.00	\$0.00
	-manhole/channel work	0	ls	1,400.00	\$0.00
5.	Sediment Control	1	ls	14,000.00	\$14,000.00
6.	Dewatering	1	ls	9,000.00	\$9,000.00
7.	General Conditions inc. O & P	1	ls	7,233.98	\$7,230.00
8.	Wetlands/Tree Bill Mitigation	1	ac	50,000.00	\$72,543.62
9.	Construction Contingency (10%)			6,751.32	\$6,750.00
	Subtotal:				\$199,106.80
	Contract Administration (2.5%)			4,977.67	\$4,980.00
	Subtotal:				\$204,086.80
	Project Contingency (10%)			20,408.68	\$20,410.00
	TOTAL:				\$224,496.80
Assumptions:					
	1. No abandonment of existing line				
	2. No additional off-site mitigation required				
	3. Mat construction not required				
	4. No Construction Management (management by Developer)				
	5. Construction by Developer or his forces				
	6. No select backfill (bedding only)				
	7. No jack & bore of Bynum Road				
	8. No waterline relocation included				

Exhibit B

Cost Estimate for Upper, Upper Bynum Run Interceptor

Item	Description	Quantity	Unit	Unit Cost	Total Cost
Marshall Drive Diversion:					
1.	Engineering	84	mn hrs	60.00	\$5,040.00
2.	Easement Acquisition	0	lf	5.00	\$0.00
3.	Sewer (12" C-905 PVC)				
	-clearing & grubbing	0	ac	5,000.00	\$0.00
	-pipe	0	lf	32.00	\$0.00
	-manholes	0	vlf	200.00	\$0.00
	-junction chamber	0	ea	1,800.00	\$0.00
	-mat construction	0	ls	0.00	\$0.00
4.	Other				
	-8" pipe	120	lf	30.00	\$3,600.00
	-paving repair	89	sy	50.00	\$4,444.00
	-traffic control	1	ls	2,000.00	\$2,000.00
	-abandon/plug manhole	1	ls	1,200.00	\$1,200.00
	-manhole/channel work	1	ls	1,400.00	\$1,400.00
5.	Sediment Control	1	ls	2,000.00	\$2,000.00
6.	Dewatering	1	ls	1,000.00	\$1,000.00
7.	General Conditions inc. O & P	1	ls	1,877.28	\$1,880.00
8.	Wetlands/Tree Bill Mitigation	0	ac	50,000.00	\$0.00
9.	Construction Contingency (10%)			1,752.40	\$1,750.00
	Subtotal:				\$24,314.00
	Contract Administration (2.5%)			607.85	\$610.00
	Subtotal:				\$24,924.00
	Project Contingency (10%)			2,492.40	\$2,490.00
	TOTAL:				\$27,414.00
Assumptions:					
	1. No abandonment of existing line				
	2. No additional off-site mitigation required				
	3. Mat construction not required				
	4. No Construction Management (management by Developer)				
	5. Construction by Developer or his forces				
	6. No select backfill (bedding only)				
	7. No jack & bore of Bynum Road				
	8. No waterline relocation included				

Exhibit B

Cost Estimate for Upper, Upper Bynum Run Interceptor

Item	Description	Quantity	Unit	Unit Cost	Total Cost
MH 223 - MH 218A:					
1.	Engineering	653	mn hrs	60.00	\$39,180.00
2.	Easement Acquisition	1	ls	25,000.00	\$25,000.00
3.	Sewer (12" C-905 PVC)				
	-clearing & grubbing	1	ac	4,000.00	\$3,746.56
	-pipe	1,017	lf	32.00	\$32,544.00
	-manholes	48	vlf	200.00	\$9,600.00
	-junction chamber	1	ea	1,800.00	\$1,800.00
	-mat construction	0	ls	0.00	\$0.00
4.	Other		ls		\$0.00
5.	Sediment Control	1	ls	18,000.00	\$18,000.00
6.	Dewatering	1	ls	12,000.00	\$12,000.00
7.	General Conditions inc. O & P	1	ls	9,322.87	\$9,322.87
8.	Wetlands/Tree Bill Mitigation	2	ac	50,000.00	\$93,663.91
9.	Construction Contingency (10%)			8,701.34	\$8,700.00
	Subtotal:				\$253,557.34
	Contract Administration (2.5%)			6,338.93	\$6,340.00
	Subtotal:				\$259,897.34
	Project Contingency (10%)			25,989.73	\$25,990.00
	TOTAL:				\$285,887.34
Assumptions:					
	1. No abandonment of existing line				
	2. No additional off-site mitigation required				
	3. Mat construction not required				
	4. No Construction Management (management by Developer)				
	5. Construction by Developer or his forces				
	6. No select backfill (bedding only)				

Exhibit B

Cost Estimate for Upper, Upper Bynum Run Interceptor

Item	Description	Quantity	Unit	Unit Cost	Total Cost
MH 208 - MH 206 & MH 205 - MH 200:					
1.	Engineering	703	mn hrs	60.00	\$42,180.00
2.	Easement Acquisition	1	ls	25,000.00	\$25,000.00
3.	Sewer (12" C-905 PVC)				
	-clearing & grubbing	1	ac	7,500.00	\$10,812.67
	-pipe	1,569	lf	49.00	\$76,881.00
	-manholes	53	vlf	200.00	\$10,600.00
	-junction chamber	1	ea	3,500.00	\$3,500.00
	-mat construction	1	ls	50,000.00	\$50,000.00
	-stream crossing	1	ls	50,000.00	\$50,000.00
4.	Sewer (12" C-905 PVC)				
	-pipe	412	lf	32.00	\$13,184.00
	-manholes	30	vlf	200.00	\$6,000.00
5.	Sediment Control	1	ls	25,000.00	\$25,000.00
6.	Dewatering	1	ls	15,000.00	\$15,000.00
7.	General Conditions inc. O & P	1	ls	31,317.32	\$31,320.00
8.	Wetlands/Tree Bill Mitigation	3	ac	50,000.00	\$145,087.24
9.	Construction Contingency (10%)		ac	29,229.77	\$29,230.00
	Subtotal:				\$533,794.91
	Contract Administration (2.5%)			13,344.87	\$13,340.00
	Subtotal:				\$547,134.91
	Project Contingency (10%)			54,713.49	\$54,710.00
	TOTAL:				\$601,884.91
Assumptions:					
1.	Assume abandonment of existing line and installation of larger line required between MH 205 & MH 200				
2.	Off-site mitigation included nearby				
3.	Mat construction required between MH 205 & MH 200				

Rev. 01/15/95
07/10/95
07/25/95

EXHIBIT C
Calculation of Recoupment/Surcharge Amount

Section 1
Manhole Runs 223 to 218A

Cost = \$285,887.34
Units Benefited = $(103 + 332 + 210 + 148 + 404)(.9) = 1,077$ Units
Cost Per Unit = \$265.00

Section 2
Manhole Runs 218A to 216 and Marshall Drive Diversion Sewer

Cost = \$224,496.80
Units Benefited = $(103)(.9) + 1,077 = 1,170$ Units
Cost Per Unit = \$192.00

Marshall Drive Diversion Sewer

Cost = \$27,414.00
Units Benefited = $(103)(.9) + 1,077 = 1,170$ Units
Cost Per Unit = \$23.00

Section 3
Manhole Runs 208 to 206 and 205 to 200

Cost = \$601,844.91
Units Benefited = $1,170 + (230 + 172)(.9) = 1,532$ Units
Cost Per Unit = \$393.00

- NOTE:1) After the Upper Bynum Parallel Sewer surcharge of \$342/equivalent unit is expired, units affected by Section 3 of this policy shall continue to pay the \$342/equivalent unit surcharge until Section 3 is paid off. \$735/equivalent unit will be the surcharge amount for the units affected by Section 3 after the Upper Bynum Parallel Sewer surcharge is eliminated. If the \$342/equivalent unit surcharge is increased, then the final surcharge amount shall be adjusted accordingly.
- 2) It is estimated that 10% of the calculated "units benefited" would be constructed during the six-month grace period allowed by this policy. Therefore, in the calculation for "units benefited" shown above, a factor of .9 is used to reflect the reduction of units.
- 3) "Other Properties Benefited" have not been included in computations of the recoupment/surcharge amounts above. However, any such units will be required to pay the recoupments/surcharges applicable to those sections which benefit the unit when connected to the Bynum Run Collector Sewer.

**EXHIBIT D
UNDEVELOPED WHICH ARE NOT CONNECTED AS OF THE
EFFECTIVE DATE OF THIS POLICY**

ENTERS MH#	AREA	TAX MAP & PARCEL #	APPROVAL	ACREAGE	UNITS
202	HA. CO. DETENTION CENTER EXPANSION	TAX MAP 40 – P.68	SITE PLAN (8/25/94)	16.5	25 EQU
208	SPENCEOLA FARMS PH.1, SECT. 4	TAX MAP 40 – P/O P.113	CONCEPT	13.1	172 MULF
208	SPENCEOLA FARMS P/O PHASE 1	TAX MAP 40 – P/O P.113	PRELIMINARY (3/23/93)	87.3	68 SF 84 COND 73 TH 5 EQU-POOL
223	CASTLE BLANEY	TAX MAP 34 – P.27 TAX MAP 41 – P.459, P.460 & P.634	PRELIMINARY (9/16/94)	39.6	103 SF
228	SPENCEOLA FARMS PHASE 2 (DICK PROP.)	TAX MAP 40 – P.219 & P.349	PRELIMINARY (9/16/94)	90.0	58 SF 180 COND 89 TH 5 EQU-POOL
236	DEER SPRING (KLEINS PROP.)	TAX MAP 40 – P.154, P.231, P.136 & P.50	APPROVED CONCEPT	47.47	210 TH
242	FOREST HILL BUS. PARK SECT. 3&4	TAX MAP 33 – P.421	FUTURE	37.0	148 EQU
242	EXISTING PARCELS ALONG JARRETTSVILLE RD.	TAX MAP 33 – P.64, P.180, P.320 P.291, P.365 & P.413	FUTURE	10.0	40 EQU
242	EXISTING PARCELS ALONG JARRETTSVILLE RD.	TAX MAP 33 – P.331, P.175 & P.367	FUTURE	6.0	24 EQU

**EXHIBIT D
UNDEVELOPED WHICH ARE NOT CONNECTED AS OF THE
EFFECTIVE DATE OF THIS POLICY**

ENTERS MH#	AREA	TAX MAP & PARCEL #	APPROVAL	ACREAGE	UNITS
208	HOPKINS PROP.	TAX MAP 40 – P.66		5.4	20 EQU
209	EX. PARCEL HOMES IN BYNUM RIDGE DEVELOPMENT	TAX MAP 41 – P.506: LOTS 11, 12, 14, 14A, 15, 16, 17, 18, 19, 20 & 21 TAX MAP 40 – P.233: LOTS 64, 63, 62, 61, 60, 59, 26, 25, 24, 23, 22, 22A & 21A	FUTURE	24.0	24 SF
209	EX. PARCEL HOMES ACROSS FROM THE ROLLER RINK	TAX MAP 41 – P.531, P.27, P.28, P.29, P.30, P.31, P.32, P.33, P.34, P.22, P.23, P.24, P.25, P.208, P.36, P.37, P.35, P.555, P.381, P.508 & P.233	FUTURE	22.0	21 SF
221	EX. PARCEL HOMES ALONG BYNUM ROAD	TAX MAP 40 – P.16, P.140, P.58 & P.207	FUTURE	6.7	28 EQU
223	BELLE MANOR SINGLE FAMILY HOMES	TAX MAP 40 – P.54 & P.257	FUTURE	5.0	2 SF
223	EX. PARCEL HOMES ALONG RTE. 1	TAX MAP 41 – P.236, P.307, P.6 & P.7	FUTURE	5.0	4 SF
223	EX. PARCEL HOMES ALONG NORTH-SIDE OF JARRETTSVILLE RD.	TAX MAP 41 – P.176, P.2, P.565, P.363, P.578, P.478, P.3, P.658, P.197, P.129, P.191 & P.593: LOTS 1,2,3, 4, 16, 7, 11, 15 & 25	FUTURE	22.0	21 SF

**EXHIBIT D
UNDEVELOPED WHICH ARE NOT CONNECTED AS OF THE
EFFECTIVE DATE OF THIS POLICY**

ENTERS MH#	AREA	TAX MAP & PARCEL #	APPROVAL	ACREAGE	UNITS
	FUTURE		FLows		
223	EX. PARCEL HOMES ALONG SOUTH-SIDE OF JARRETTSVILLE RD.	TAX MAP 41 – P.539, P.540 & P.546	FUTURE	3.0	3 SF
223	WAWA & BOB'S DELI	TAX MAP 34 – P.32 & P.34	FUTURE	3.0	12 EQU
223	HA. CO. BUILDING	TAX MAP 34 – P.226 & P.224	FUTURE	5.0	20 EQU
223	EX. BUILDINGS AT INTERSECTION OF RTE. 543 & RTE. 1	TAX MAP 34 – P.106, P.30, P.31, P.35, & P.213	FUTURE	5.0	20 EQU
223	HICKORY ELEMENTARY SCHOOL	TAX MAP 34 – P.28	FUTURE	26.7	54 EQU
223	FOREST HILL FARM INCORP.	TAX MAP 40 – P.53	FUTURE	52.5	210 EQU
226	BLAKE PROP.	TAX MAP 40 – P.57	FUTURE	41.0	143 EQU
230	EX. PARCEL HOMES ALONG ROCKS SPRING ROAD	TAX MAP 40 – P.60, P.61, P.32, P.62, & P.63	FUTURE	36.6	5 SF
233	EX. PARCEL HOMES ALONG ROCKS SPRING ROAD	TAX MAP 40 – P.51, P.152, P.134, P.59, P.123, & P.124	FUTURE	28.9	6 SF

**EXHIBIT E
EXISTING SUBDIVIDED PROPEORTIES WHICH ARE NOT CONNECTED AS OF THE
EFFECTIVE DATE OF THIS POLICY.**

ENTERS MH#	AREA OR OWNER & ADDRESS	TAX MAP & PARCEL #	ACREAGE	UNITS
208	Spenceola Farms Sect.1 p/o Sec. 2 (Contract #9803/04)	TAX MAP 40 - P.411	-	49 sf 6 th 48 condo
223	Greater Harford Ind. Park (Contract #9450)	TAX MAP 40 - P. 382	38.0	152 equ
223	Melrose Lane Townhouses (Contract #9270)	TAX MAP 40 - P. 378	-	19 th
223	Belle Manor Townhouses (Contract #9665/66)	TAX MAP 40 - P. 244	-	54 th
223	Belle Manor Single Family	Tax Map 40 - P. 55	-	6 sf
236	B. Myers 2011 Rock Spring Rd.	TAX MAP 40 -P.375-5A	0.5	2 equ
236	Ralph Klein No Address	TAX MAP 40 - P.375-6	1.0	4 equ
236	Rock Spring Prof. 2007 Rock Spring Rd.	TAX MAP 40 - P.381-7	0.75	3 equ
236	Ralph Klein 2003 Klein Plaza Dr.	TAX MAP 40 - P.381-8	1.3	5 equ
236	Ralph Klein 5 Maurice	TAX MAP 40 -P.377-15	1.9	7 equ
236	Klein Family Dev. No Address	TAX MAP 40 -P.387-17	7.6	30 equ
236	Ralph Klein 2 Myers Dr.	TAX MAP 40 - P.275-2	1.5	6 equ

18.33-16

EXHIBIT E
EXISTING SUBDIVIDED PROPEORTIES WHICH ARE NOT CONNECTED AS OF THE
EFFECTIVE DATE OF THIS POLICY.

ENTERS MH#	AREA OR OWNER & ADDRESS	TAX MAP & PARCEL #	ACREAGE	UNITS
242	Fray, Shahin 9 Newport Dr.	TAX MAP 40 - P.348-5	0.95	3 equ
242	Fortunato 2 Newport Dr.	TAX MAP 40 -P.348-57	0.9	3 equ
242	Ravizian 7 Newport Dr.	TAX MAP 40 - P.348-4	0.97	3 equ
242	Kleins Farm Dev. 21 Newport Dr.	TAX MAP 40 -P.241-12	1.6	6 equ
242	N. Bekber 11 Newport Dr.	TAX MAP 40 - P.241-7	2.3	9 equ
242	O'Neil Holding Co. 19-A Newport Dr.	TAX MAP 40 - P.241-11A	1.1	4 equ
242	Klein's Corp. 16 Newport Dr.	TAX MAP 40 -P.241-24	1.5	6 equ
242	Ted Cypull Jr. 12 Newport Dr.	TAX MAP 40 -P.241-52	0.76	3 equ
242	W. Thomas 14 Newport Dr.	TAX MAP 40 -P.241-51	1.0	4 equ
242	Sednick Chavis 8 Newport Dr.	TAX MAP 40 -P.241-54	1.8	7 equ
242	Forest Hill Bus. Center Newport Dr.	TAX MAP 40 - P.387-B	2.7	10 equ
243	F.H.I.A.P. Inc. No Address	TAX MAP 33 - P.56	3.6	14 equ
243	Robert Brown 2300 Industry Court	TAX MAP 33 - P.58-N	-	1 equ

18.33-17

**EXHIBIT E
EXISTING SUBDIVIDED PROPEORTIES WHICH ARE NOT CONNECTED AS OF THE
EFFECTIVE DATE OF THIS POLICY.**

ENTERS MH#	AREA OR OWNER & ADDRESS	TAX MAP & PARCEL #	ACREAGE	UNITS
243	Peter Burian 2302 Industry Court	TAX MAP 33 - P.58-O	-	2 equ
243	F.H.I.A.P., Inc. 106 Industry Lane	TAX MAP 33 - P.328	-	2 equ
243	E. Jones 114 Industry Lane	TAX MAP 33 - P.53	0.9	3 equ
243	M. Lynch 121 Industry Lane	TAX MAP 33 - P.362-U	3.5	14 equ
243	Chas. Benfield NS Industry Lane	TAX MAP 33 - P.377 T-2	1.7	6 equ
243	Canterbury Pntrshp. SS Industry Lane	TAX MAP 33 - P.394	1.0	4 equ
243	Chas. Benfield NS Industry Lane	TAX MAP 33 - P.325	1.0	4 equ
243	Chas. Benfield NS Industry Lane	TAX MAP 33 - P.393	2.0	8 equ

18.33-18

TABLE 1

Facility and Cost (SSCAP MH #'s)	Units Benefited (Exhibits D and E)	Pipe Size	Length of Sewer	Project Cost (Exhibit B)**	Surcharge/Recoupment Amount \$/Eq. Unit**	Castle Blaney (103 Units)	Deer Spring (210 Units)	Forest Hill Bus. Ctr. Sec. 3 & 4 (148 Units)	Spenceola Ph. I Sec. 3 and Part of Sec. 2 (230 Units)	Spenceola Ph. II (332 Units)	Spenceola Ph. I Sec. 4 (172 Units)	Unconnected Units in Background Flow (See Policy)
Section 1 Parallel Sewer MH 218A-223	1,077	12"	1017'	285,887.34	265.00	24,645.00	50,085.00	35,245.00	--	79,235.00	--	96,460.00
Section 2 Parallel Sewer MH 216-218A	1,170	12"	783'	224,496.80	192.00	17,856.00	36,288.00	25,536.00	--	57,408.00	--	87,552.00
Marshall Drive Diversion Sewer	1,170	8"	120'	27,414.00	23.00	2,139.00	4,347.00	3,059.00	-	6,877.00	-	10,488.00
Section 3 Replacement Sewer MH 200-205 and Parallel Sewer MH 206-208	1,532	18" and 12"	1569' and 412'	601,844.91	393.00 *(735.00)	36,549.00 (68,355.00)	74,277.00 (138,915.00)	52,269.00 (97,755.00)	81,351.00 (152,145.00)	117,507.00 (219,765.00)	60,915.00 (113,925.00)	179,208.00 (335,160.00)

NOTE:

Number of units per development are estimated.

The total amounts to be paid by each subdivision are estimates and will vary, dependent upon the actual number of units connected.

* The recoupment/surcharge amounts shown in parentheses will be collected for Section 3 after the Upper Bynum Parallel Sewer surcharge of \$342.00/equivalent unit has been paid off.

** These costs are fixed by this policy.

34. Franz Property Water Extension Recoupment (FP1)
- (PWUA date: 10/2/1996)
 - The term of the recoupment was established to continue until 50% of the project cost has been recovered as determined by the cost affidavit.
 - The Owners of 294 Wakely Terrace entered into a Public Works Utility Agreement (PWUA) with the County to extend a public water main to serve a small portion of Wakely Terrace.
 - The recoupment charge to be paid by the owner of Parcel 221, if said property connects to the line constructed under the PWUA, is \$5,500.00.
 - The recoupment charge shall be collected at the time all other hook-up charges are paid.

35. Church Creek Sewage Pumping Station Upgrade Policy (CC4)

- (originally established 1987, revised 2/1/1997, revised 4/8/2008)
- The existing Church Creek Sewage Pump Station shall be replaced with a new 15.5 mgd pumping station as a County capital project. A new replacement 36-inch gravity sewer between the pumping station and Route 40 will also be included under this policy as well as approximately 1,500 lf of replacement forcemain. A sewer line replacement project parallel to Route 40, from Manhole 10 to Manhole 19 (Contract No. 3003), as well as approximately 2,800 lf of a future parallel forcemain along Stockhams Lane will not be included under this surcharge, for which a future capital budget will be developed.
- The surcharge to be paid by each user who desires to be served by the Church Creek Sewage Pump Station shall be as follows:
 - A residential dwelling unit shall pay \$889 per unit.
 - A non-residential connection shall pay \$889 per number of sets of hook-up charges as calculated by PART 4 of the Rules & Regulations.
- The surcharge shall be collected at the time all other hook-up charges are paid.

This policy supersedes the previously adopted Church Creek Sewage Pump Station Upgrade Policy which became effective February 1, 1997. The purpose of this revision is to account for two changes. First, the projected number of equivalent dwelling units (EDU's) has increased since Land Use Plan densities were used in comparison to current zoning densities from the 1997 policy. This change in the projected number of EDU's within the drainage area increased the capacity of the proposed pumping station. Secondly, this policy reflects current project costs. As of the effective date of this policy, the County expects to be awarding the construction contract within six months, depending on the progress of easement acquisition. The proposed improvements to be funded under this policy include the provision of additional capacity to the sewage collection system between the sewage pump station and the intersection of Mitchell Lane and U.S. Route 40, a new sewage pumping station to replace the existing pump station, and approximately 1,500 lf of force main replacement.

In accordance with the Adequate Public Facilities section of the County Code, the capacity of the above facilities shall be upgraded to accommodate future development within the Church Creek Pump Station service area identified in Exhibit A, in accordance with the 2004 Land Use Plan. The existing 5.5 mgd sewage pumping station shall be replaced with a new 15.5 mgd pumping station as a County capital project. Funding shall be provided by the surcharge and County funds. The County funds are based on a proportionate share of the replacement costs of a 4.32 mgd pumping station to the total 15.5 mgd station costs as shown on Exhibit B.

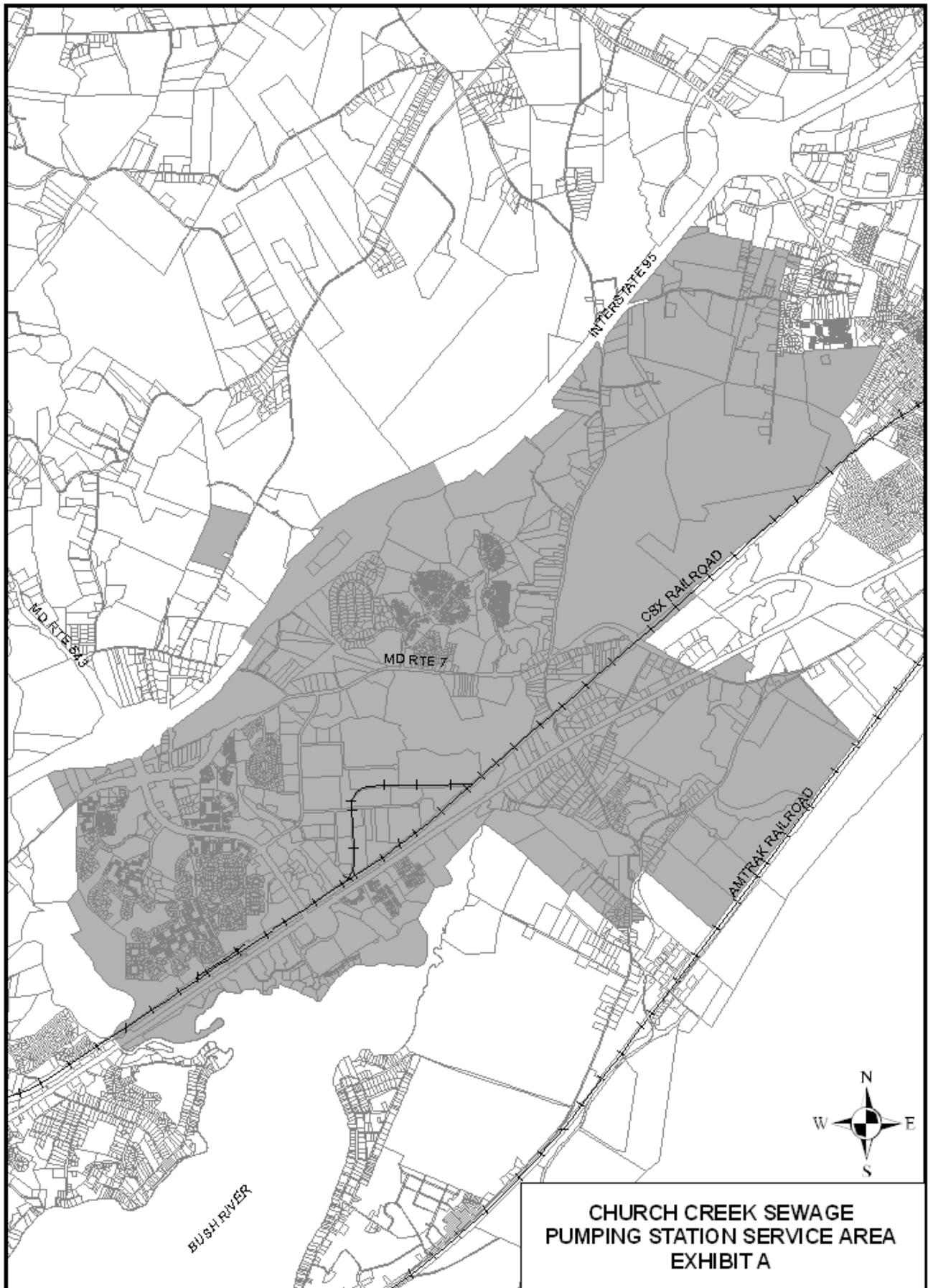
At the time of the adoption of the 1987 and 1997 policies, the capacity of the Church Creek Pump Station was 4.32 mgd. It was the intent of the 1997 policy to recoup the costs associated with the additional capacity required for ultimate growth within the development envelope. It should be noted that in the late 1990's the County performed a minor upgrade to the Church Creek Pump Station to expand its capacity to 5.5 mgd. This upgrade was funded by the County's system development fees in an effort to allow more time for the accrual of surcharges to fund and initiate the design of the proposed project. Exhibit B

presents the calculation of the surcharge which reflects the difference in project costs between a 4.32 mgd and a 15.5 mgd pumping station.

It is the intent of this policy to have all of the remaining potential connections that will utilize the Church Creek Sewage Pumping Station contribute an equal share of the cost of the improvements based on a dollar amount per EDU. Apartments, condominiums and trailer/mobile homes shall be considered as one equivalent dwelling unit. For the purposes of determining the surcharge for this policy, the remaining potential connections is comprised of the total number of EDU's with approved Concept Plans, Preliminary Plans and Site Plans (as of 01/21/08) and fifty (50) percent of all other potential connections within the Church Creek Pump Station service area as calculated from the densities presented in the 2004 Land Use Plan.

Any connections made to the sewer system after the effective date of this policy whose sewage will flow into the Church Creek Pump Station will be required to pay the revised surcharge as described herein. The surcharge shall be paid on a unit-by-unit basis at the time all other hook-up charges are paid.

This surcharge will remain in effect until all of the recoupable money, as shown in Exhibit B, is collected by the County.



**CHURCH CREEK SEWAGE
PUMPING STATION SERVICE AREA
EXHIBIT A**

**CHURCH CREEK SEWAGE PUMP STATION UPGRADE POLICY - EXHIBIT B
CALCULATION OF SURCHARGE**

1997 Pump Station Capacity	4.32 mgd	
Required Ultimate Capacity	15.5 mgd	
 <u>2008 Cost of a 4.32 mgd Pump Station</u>		
Design	\$350,000	
Administration and Inspection	\$280,000	
Construction	<u>\$2,900,000</u>	
Subtotal	\$3,530,000	
10% Contingency	<u>\$353,000</u>	
Total	\$3,883,000	
 <u>2008 Cost of a 15.5 mgd Pump Station</u>		
Design	\$860,000	
Administration and Inspection	\$350,000	
Construction	<u>\$8,000,000</u>	
Subtotal	\$9,210,000	
10% Contingency	<u>\$921,000</u>	
Total	\$10,131,000	
Difference in Costs of Pump Stations	\$6,248,000	
Less Surcharges Collected	<u>\$752,071</u>	
Amount to be Financed	\$5,495,929	
Bond Interest Rate	4.25%	
Term of Bond, yrs	20	
Bond Variient Factor	1.5044	
Total Cost (Amount to be Recouped)	\$8,268,076	
 <u>Breakdown of EDU's</u>		
Potential Additional EDU's within Drainage Area Per 2004 Land Use Plan:		17,130
Less EDU's with Approved Preliminary Plans and Site Plans:		<u>1,461</u>
Net Difference		15,669
 <u>Basis of EDU's for Surcharge</u>		
EDU's with Approved Preliminary and Site Plans		1,461
50% of Remaining Potential EDU's within Drainage Area		<u>7,835</u>
Total		9,296
 <u>Surcharge Calculation</u>		
Total Cost	\$8,268,076	
EDU's	9,296	
Surcharge	\$889	

36. Gray's Run Collector Sewer Policy (GR1, GR2, GR3, GR4, GR5)

- (established 2/1/1997)
- It is the intent of this policy to have all of the remaining potential connections that will utilize the sewers constructed as a result of this policy contribute an equal share of the cost of the improvements based upon a dollar amount for each equivalent flow unit.
- The term of the recoupment agreements shall be twenty (20) years or until the recoupment from the applicable number of equivalent units for each section has been recovered and forwarded to the developer by Harford County, whichever is first.

The purpose of this policy statement is to identify what improvements are required to the Gray's Run Collector Sewer, to determine when they are required and to allocate the costs associated with them. The limits of the collector sewer are from a proposed parallel sewer located along Route 40 which will be constructed by the Riverside South 40 subdivision through the Gray's Run stream valley to Route 7. Exhibit B shows the general location of the existing and the proposed sewers, and the properties benefited by their construction.

The Sewer System Capacity Model (SSCAP), when applied according to the Adequate Public Facilities section of the County Code, indicates that relief is needed in many of the runs of sewer beginning at SSCAP Manhole 1 to Manhole 16. Additionally, the sewer lines between Manhole 5 and Manhole 10 are in poor condition and have experienced blockages in the past resulting in sewage overflows. This is compounded by the fact that the aforementioned section of sewer is located entirely within a wetland area, which makes routine maintenance impossible.

It is the intent of this policy to have all of the remaining potential connections that will utilize the sewers constructed as a result of this policy contribute an equal share of the cost of the improvements based upon a dollar amount for each equivalent flow unit. Apartments, condominiums and trailer/mobile homes shall be considered as one equivalent flow unit for the purpose of paying the recoupments or surcharges established by this policy. The term of the recoupment agreements shall be twenty (20) years or until the recoupment from the applicable number of equivalent units for each section has been recovered and forwarded to the developer by Harford County, whichever is first. The project costs as shown in Exhibit A are fixed by this policy with the exception of Section 4. The surcharge/recoupment costs per unit will increase by the current prime interest rate on January 1st each year and will become effective on February 1st each year beginning February 1, 1998. The amount of contribution or recoupment available to reimburse the developer who constructs the required sewers is dependent upon the actual number of units connected.

A surcharge is an amount of money paid per equivalent flow unit for a project that is not yet completely financed or has not yet been constructed. A recoupment is defined as an amount of money paid per equivalent flow unit for a project that has already been financed or constructed by another party.

The required work has been broken down into four sewer projects as identified on the recoupment chart shown in Exhibit A. These four projects are described below:

Section 1

- (PWUA date: 10/14/2003)
- The term of the recoupment was established to be 20 years or until the project cost of \$670,597.00 as outlined in the Policy has been recovered, whichever is first.
- The first section of the Gray's Run Collector Sewer will extend from the sewer along Route 40 to Manhole H.
- The recoupment charge to be paid by each user who desires to be served by the sewer facilities constructed as described in the Policy shall be as follows:
 - A residential dwelling unit shall pay \$335.00 per unit
 - A nonresidential connection shall pay \$335.00 per number of sets of hook-up charges as calculated by PART 4 of the Rules & Regulations.
- The recoupment charge shall be collected at the time all other hook-up charges are paid.

The first section of the Gray's Run Collector Sewer will extend from the sewer along Route 40 to Manhole H. The sewer shall be 24 inches in diameter based upon the required design capacity of the sewer. This section of sewer shall be designed and constructed prior to or concurrent with the first Phase of Village of Gray's Run subdivision. The builder of this section of sewer is entitled to receive recoupment charges from 1,962 equivalent units. Every unit which will flow through the sewer between Manholes 29 & H that connects after the effective date of this policy and flows through this sewer must either pay the surcharge or the recoupment charge for the work that is a part of this section. This charge is to be paid at the time all other Hook-Up Charges are paid.

Section 2

- (PWUA date: 10/14/2003)
- The term of the recoupment was established to be 20 years or until the project cost of \$201,907.00 as outlined in the Policy has been recovered, whichever is first.
- The second section of the Gray's Run Collector Sewer will extend from Manhole H to Manhole O.
- The recoupment charge to be paid by each user who desires to be served by the sewer facilities constructed as described in the Policy shall be as follows:
 - A residential dwelling unit shall pay \$115.00 per unit
 - A nonresidential connection shall pay \$115.00 per number of sets of hook-up charges as calculated by PART 4 of the Rules & Regulations.
- The recoupment charge shall be collected at the time all other hook-up charges are paid.

The second section of the Gray's Run Collector Sewer will extend from Manhole

H to Manhole O. The sewer shall be 21 inches in diameter based upon the required design capacity of the sewer. This section shall be designed and constructed by either Phase V of the Village of Gray's Run, the residential development of the Seward Property, or the second phase of the Hollywood subdivision whichever is developed first. The builder of this section of sewer is entitled to receive recoupment charges from 1,662 equivalent units. Every unit which will flow through the sewer between Manholes H&O that connects after effective date of this policy and flows through this sewer must either pay the surcharge or the recoupment charge for the work that is a part of this section. This charge is to be paid at the time all other Hook-Up Charges are paid.

Section 3

- (PWUA date: 10/14/2003)
- The term of the recoupment was established to be 20 years or until the project cost of \$117,683.00 as outlined in the Policy has been recovered, whichever is first.
- The third section of the Gray's Run Collector Sewer will extend from Manhole O to Manhole U.
- The recoupment charge to be paid by each user who desires to be served by the sewer facilities constructed as described in the Policy shall be as follows:
 - A residential dwelling unit shall pay \$87.00 per unit
 - A nonresidential connection shall pay \$87.00 per number of sets of hook-up charges as calculated by PART 4 of the Rules & Regulations.
- The recoupment charge shall be collected at the time all other hook-up charges are paid.

The third section of the Gray's Run Collector Sewer will extend from Manhole O to Manhole U. The sewer shall be 12 inches in diameter based upon the required design capacity of the sewer. This section shall be designed and constructed by the first section of the Village of Gray's Run which requires this sewer or the second phase of the Holly Wood subdivision whichever is developed first. The builder of this section of sewer is entitled to receive the recoupment charges from 1,350 equivalent units. Every unit which will flow through the sewer between Manholes O & U that connects after the effective date of this policy must either pay the surcharge or the recoupment charge for the work that is a part of this section. This charge is to be paid at the time all other Hook-Up Charges are paid.

Section 4

- The fourth section is a sewer which connects the existing Gray's Run Collector Sewer to the Gray's Run Collector Replacement Sewer. It is located between SSCAP Manhole 10 and Manhole O.
- The surcharge to be paid by each user who desires to be served by the sewer facilities constructed as described in the Policy shall be as follows:

- A residential dwelling unit shall pay \$456.00 per unit
- A nonresidential connection shall pay \$456.00 per number of sets of hook-up charges as calculated by PART 4 of the Rules & Regulations.
- The surcharge shall be collected at the time all other hook-up charges are paid.

The fourth section is a sewer which connects the existing Gray's Run Collector Sewer to the Gray's Run Collector Replacement Sewer. It is located between SSCAP Manhole 10 and Manhole O. The sewer shall be 18 inches in diameter based upon the required design capacity of the sewer. This section of sewer shall be designed and permitted by the developer of the Seward Industrial Property. The design of this section of sewer shall be performed concurrent with the construction of the utilities which will provide service to the Seward Industrial Property. The design must be completed before operational approval will be granted for the sewer line, which will serve the Industrial Property. The developer of the Seward Industrial Property will post their share of the project costs at the time all other hook-up charges are paid for the first connection into the Industrial Center. This money shall be given in the form of cash or check to Harford County to guarantee the construction of this section of sewer. The amount is shown in Exhibit A. After the project has been designed and permitted by the developer of the Industrially Zoned portion of the Seward Property, \$20,000 will be returned to the developer. The remaining money will be held in escrow until the project is required to be constructed. The developer of the first phase of the Holly Wood subdivision shall post their share of the project costs for this sewer in the form of cash or check to Harford County at the time all other hook-up charges are paid for the first connection in Phase 1. This money will also be held in the aforementioned escrow account until the project is required to be constructed. Section 4 may be constructed by either Harford County or any of the developers, which will eventually require this sewer. Whoever constructs the sewer shall be entitled to utilize any of the money set aside for the construction of Section 4 of this policy as identified in Exhibit A. If the construction cost for Section 4 is less than the amount shown in Exhibit A, then the difference will be refunded to the developers of Holly Woods Phase I and the Seward Industrial Property in an amount proportional to the number of equivalent units identified in Exhibit A. If the cost of the project exceeds the amount identified in Exhibit A, then the entity who builds this section of sewer is entitled to receive all future recoupment payments for this section until the project cost has been recovered. After the project cost has been recovered, the remaining recoupment payments will be divided proportionately between the developer of Holly Woods Phase I and the Seward Industrial Property until the amount contributed by these two parties has been recovered. Every equivalent unit except for those in Holly Woods, Phase I and the Seward Industrial Property which will flow through SSCAP Manhole 10 that connects after the effective date of this policy, must either pay the per unit surcharge or recoupment charge for the work that is a part of this section. This charge is to be paid at the time all other Hook-Up Charges are paid.

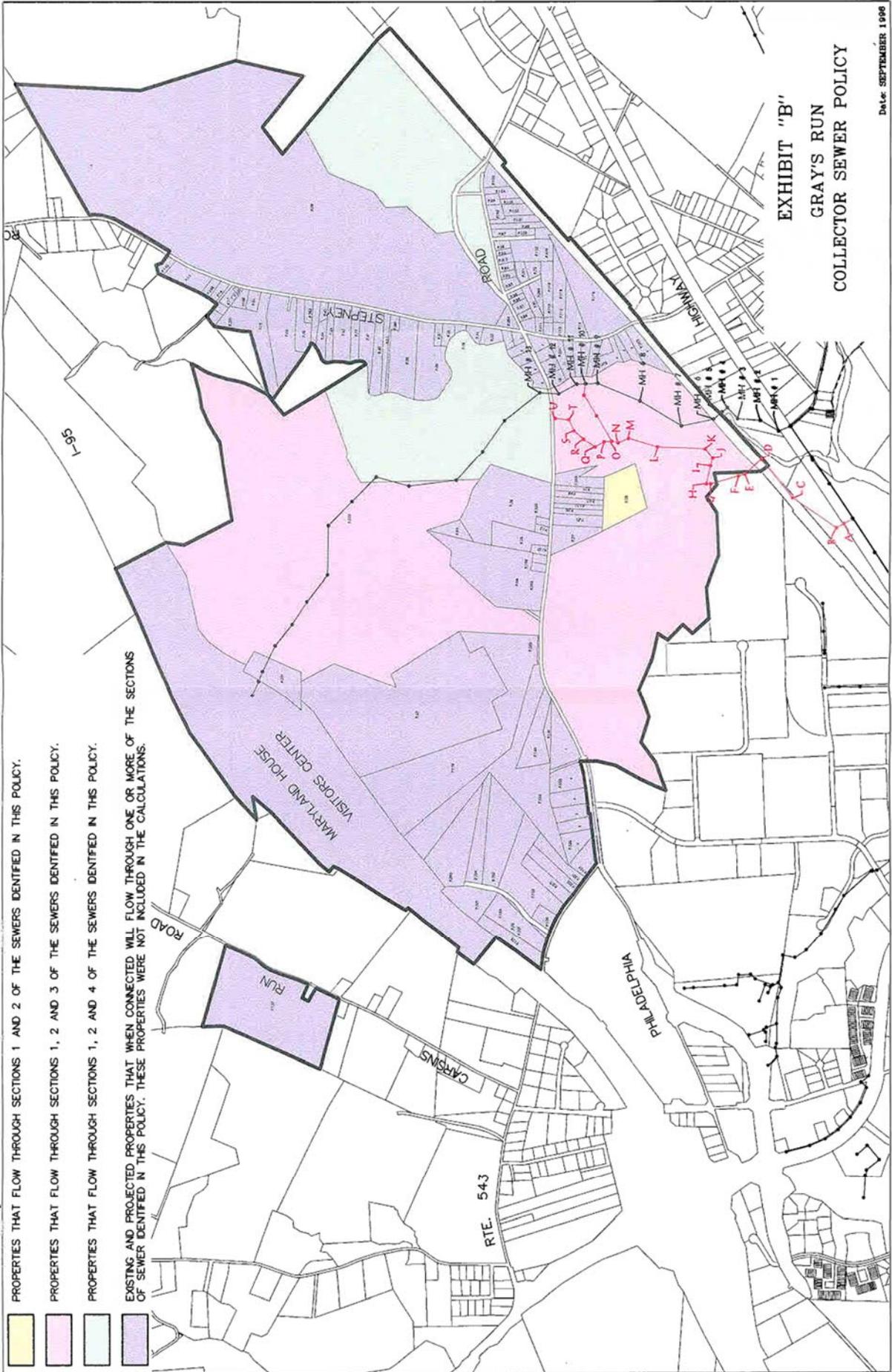
Effective Date of Policy February 1, 1997

EXHIBIT A

Sewer Facility to be Constructed	Units Benefited (Exhibit B) ***	Pipe Size	Length of Sewer	Project Cost (Exhibit C)	County Participation **	Surcharge/Recoupment Amount \$/Eq. Unit	Village of Gray's Run	Holly Woods	Seward Property (GI Zone)
Section 1 Ex. MH 29 to MH H	1962	24"	2043'	\$670,597	\$14,300	\$335.00	350 Units \$117,250	1482 Units \$496,470	130 Units \$43,550
Section 2 MH H to MH O	1662	21"	1557'	\$201,907	\$10,900	\$115.00	50 Units \$5,750	1482 Units \$170,430	130 Units 14,950
Section 3 MH O to MH U	1350	12"	1008'	\$117,683	--	\$87.00	37 Units \$3,219	1313 Units \$114,231	--
Section 4 MH O to Ex. MH 10	299	18"	660'	\$141,745	\$5,355 ***	\$456.00	--	169 Units \$77,064	130 Units \$59,280*

- Note: The number of units per development is estimated.
 The total amounts to be paid by each subdivision are estimates and will vary, dependent upon the actual number of units and when they are connected. The surcharge/recoupment amount will increase by the current prime interest rate on January 1st each year and the new rate will become effective on February 1st each year.
- * This amount will be reduced by \$20,000 when the project has been designed and permitted by the developer of the Industrially Zoned portion of the Seward Property.
 - ** These dollar amounts reflect cost to increase the sewer lines by one size to handle the redirected flows of the existing sewer.
 - *** All of the properties within the boundary line shown in exhibit B are benefited by the sewer construction outlined in this policy. However, for the purpose of calculating the surcharge/recoupment amount, only the units anticipated to be developed by the three subdivisions listed in this exhibit were used.
 - **** County Engineering, inspection fees and contract administration costs will not be applied towards this project.

18.36-5



- PROPERTIES THAT FLOW THROUGH SECTIONS 1 AND 2 OF THE SEWERS IDENTIFIED IN THIS POLICY.
- PROPERTIES THAT FLOW THROUGH SECTIONS 1, 2 AND 3 OF THE SEWERS IDENTIFIED IN THIS POLICY.
- PROPERTIES THAT FLOW THROUGH SECTIONS 1, 2 AND 4 OF THE SEWERS IDENTIFIED IN THIS POLICY.
- EXISTING AND PROJECTED PROPERTIES THAT WHEN CONNECTED WILL FLOW THROUGH ONE OR MORE OF THE SECTIONS OF SEWER IDENTIFIED IN THIS POLICY. THESE PROPERTIES WERE NOT INCLUDED IN THE CALCULATIONS.

EXHIBIT "B"
GRAY'S RUN
COLLECTOR SEWER POLICY

Date: SEPTEMBER 1998

EXHIBIT C

Calculation of Project Costs

Section 1	2043' - 24" dia. (DIP)	=	\$ 608,877
	Engineering, Inspection and As-Built Fees	=	<u>61,720</u>
	Total	=	\$ 670,597
Section 2	1557' - 21" dia. (DIP)	=	\$ 162,807
	Engineering, Inspection and As-Built Fees	=	<u>39,100</u>
	Total	=	\$ 201,907
Section 3	1008' - 12" dia. (PVC)	=	\$ 85,883
	Engineering, Inspection and As-Built Fees	=	<u>31,800</u>
	Total	=	\$ 117,683
Section 4	660' - 18" dia. Construction Price based upon Contractor's Bids	=	\$ 52,800
	Special Conditions Mat Construction @ \$75/ft.	=	49,500
	Engineering Fees	=	<u>20,000</u>
	Sub-Total	=	\$ 122,300
	Adjustment for construction in 5 years @ 3% per year Inflation - 122,300 x 1.159	=	\$ 141,745
	Total	=	\$ 141,745

37. Rite Aid Route 22 and Route 543 Offsite Sewer Recoupment Project 19052
(RT1, RT2, RT3)

- This Recoupment is closed as of 2/4/2007. The term of the recoupment expired.
- (PWUA date: 2/4/1997)
- The term of the recoupment was established to be 10 years or until 98% of the project cost has been recovered as determined by the cost affidavit, whichever is first.
- The developer is leasing a parcel of land, Parcel 213, which it is developing for commercial use known as Rite Aid is required to design and construct a sewer main extending along the east side of Route 543 and along the north side of Route 22 and connecting into an existing manhole at Hillside Drive.
- The recoupment charge to be paid by each user, excluding the units developed on the commercial property being leased (Parcel 213), who desires to be served by the sewer facilities constructed as described in the PWUA shall be as follows:
 - A residential dwelling unit shall pay \$1,121.00 per unit.
 - A nonresidential connection shall pay \$1,121.00 per number of sets of hook-up charges as calculated by PART 4 of the Rules & Regulations.
- The recoupment charge shall be collected at the time all other hook-up charges are paid.

38. Hickory Collector Section 1 Recoupment Project 9826 (HC1)

- (PWUA date: 10/16/1997)
- The term of the recoupment was established to be 20 years or until 61% of the project cost has been recovered as determined by the cost affidavit, whichever is first.
- The developer of the residential community known as Tuchahoe Farms was required to design and construct a sewer main and appurtenances, etc. from a point north of Maryland Route 23 at the outfall of the Tuchahoe Farms project and connect to the existing Bynum Run Interceptor Contract 9129 as shown on sewer contract 9826.
- The recoupment charge to be paid by each user, excluding the units developed in Tuchahoe Farms, excluding properties served by County sewer as of the date of the PWUA and excluding those units in the Castle Blaney development, who desires to be served by the sewer facilities constructed as described in the PWUA shall be as follows:
 - A residential dwelling unit shall pay \$269.00 per unit
 - A nonresidential connection shall pay \$269.00 per number of sets of hook-up charges as calculated by PART 4 of the Rules & Regulations.
- The recoupment charge shall be collected at the time all other hook-up charges are paid.

39. Plumtree Collector Sewer Policy (PC1, PC2, PC3)

- (established 12/1/1997)
- (revised 10/01)
- Approximately 1,200 feet of existing 18-inch diameter sewer will be replaced with 21-inch diameter sewer by means of pipe bursting. Additionally, approximately 500 feet of existing 18-inch diameter sewer will be paralleled with 21-inch diameter sewer.
- The surcharge to be paid by each user who desires to be served by the sewer facilities constructed as described in the Policy shall be as follows:
 - A residential dwelling unit shall pay \$2,320.00 per unit
 - A nonresidential connection shall pay \$2,320.00 per number of sets of hook-up charges as calculated by PART 4 of the Rules & Regulations.
 - Except for the development known as “Valley Oaks West” which shall pay a recoupment charge of \$1,600.00 per residential unit.
- The surcharge shall be collected at the time all other hook-up charges are paid.
- Properties within the Fallston Sanitary Subdistrict and any existing properties within the current limits of the Town of Bel Air, as October 2001, are not subject to this policy.

The following Plumtree Collector Sewer Policy revises the previous policy dated August 2001 and December 1997. The purpose of this revision is to change the policy from a project funded, designed and built by the development community to a project funded by the development community and designed and built by Harford County as a capital project.

Analysis of the drainage area that is served by the Plumtree Collector Sewer has determined that the properties which will generate sewage and which will flow through the collector sewer will cause a portion of the collector sewer to be over its rated capacity. Therefore, it has been determined the most feasible alternative is to construct a combination of pipe-bursting and parallel sewer to provide the additional capacity necessary to serve those properties whose sewage will flow through the collector sewer. The purpose of this policy is to identify the extent of the improvements, to determine when they are required, to determine the costs associated with the improvements and the method of recovering the costs.

The existing collector sewer that is projected to be over capacity is between manholes numbered 2 through 9 as identified in the Sewer System Capacity Analysis Program (SSCAP). Approximately 1,200 feet of existing 18-inch diameter sewer will be replaced with 21-inch diameter sewer by means of pipe bursting. Additionally, approximately 500 feet of existing 18-inch diameter sewer will be paralleled with 21-inch diameter sewer. Exhibit C shows the location of the existing sewer. Exhibit A identifies major undeveloped properties whose sewage will flow through the Plumtree Collector Sewer. These properties were evaluated for the purpose of determining a surcharge amount. Any property whose sewage will flow through this portion of the collector sewer will be responsible for the surcharge associated with this policy. Properties within the Fallston Sanitary Subdistrict and any existing properties within the current limits of the Town of Bel Air, as of the effective date of this policy, are not subject to

this policy. Any additional properties which are added to the Fallston Sanitary Subdistrict after the effective date of this policy will be subject to the surcharge. If the Sullivan Property (Parcel 247, Tax I.D. No. 03064565) or Cameron Properties (Parcels 103 and 117, Tax I.D. Nos. 03033503 and 03033481) or any portions thereof as shown in Exhibit A annex into the limits of the Town of Bel Air after the effective date of this policy, and the sewage generation will flow through the Plumtree Collector Sewer, then these properties or portions thereof will also be responsible for the surcharge amount set forth in this policy.

The design and construction of the parallel sewer and pipe bursting will be performed by Harford County. As of the date of this policy, Harford County has determined that the existing sewer can accept approximately 540 additional equivalent units before the sewer reaches its capacity. Therefore, Harford County intends to construct the proposed improvements when 440 additional equivalent units have connected.

The estimated project costs and development of the associated recoupment is presented in Exhibit B. The developer of the Valley Oaks West subdivision will contribute towards the easement acquisition and design costs. Additionally, all lots within the Valley Oaks West subdivision shall be responsible for a \$1,600 surcharge in accordance with the Public Works Utility Agreement. All other connections which flow through the Plumtree Collector Sewer, other than the Valley Oaks West subdivision, shall pay the \$2,320 surcharge amount per equivalent unit. All surcharge fees collected as part of the Plumtree Collector Sewer Policy shall be utilized by the Harford County Division of Water and Sewer to fund the improvements to the sewer system. Design and construction of the improvements will be performed by Harford County as a capital improvement project subject to the approval of the Harford County Council.

Furthermore, it is the purpose of this policy to have the potential connections whose sewage will flow through the collector sewer, contribute their proportionate share of the project costs based upon the number of equivalent flow units generated by the development of the properties. Apartments, condominiums and trailer/mobile homes shall be considered as one equivalent flow unit for the purpose of paying the recoupment established by this policy.

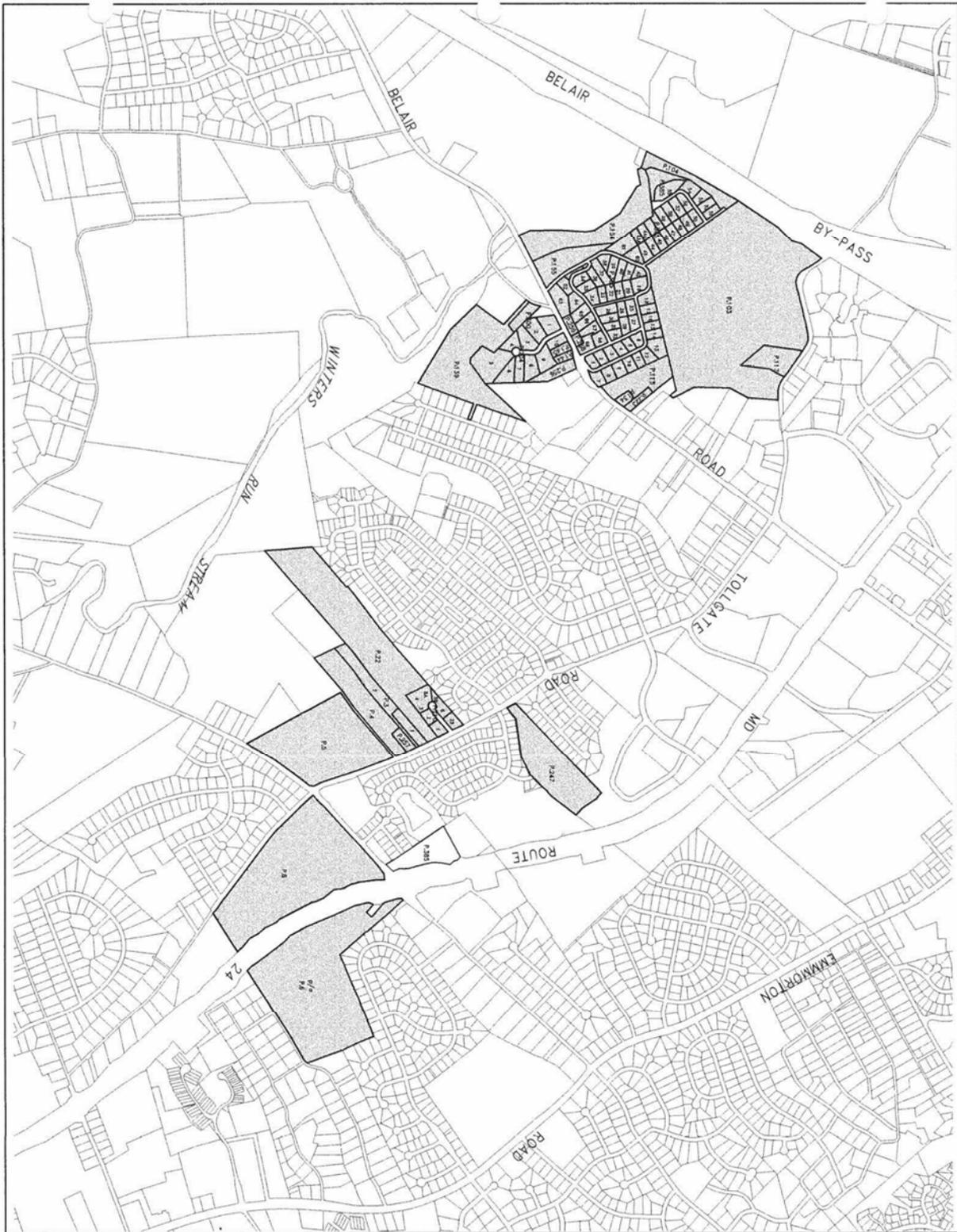


EXHIBIT "A"

PLUMTREE COLLECTOR SEWER POLICY

HARFORD COUNTY GOVERNMENT
 DIVISION OF WATER AND SEWER
 101 SOUTH MAIN STREET
 BEL AIR, MD. 21014

DATE: 10/1/00

EXHIBIT B CALCULATION OF SURCHARGE

PROJECT COST ESTIMATE

Part 1 - Redesign

Pipe Bursting Plans and Specs
Revise Record Plats

Part 2 - Easement Acquisition

Right of Way Agent

Part 3 - Project Management

Project Manager (Contract Management
of Design and Construction, and Procurement)

Part 4 - Construction

Traffic Control
21" HDPE Gravity Sewer
4' Dia. Manholes
Pipe Bursting
By-Pass Pumping
21" PVC Gravity sewer
Doghouse MH in E. Ring Factory
8" Gravity Sewer
Lawn Restoration

Part 5 - Inspection

Inspections
Subtotal

Part 6 - Easement Compensation

For the purpose of establishing a surcharge amount, the following properties are assumed to connect to public sewer within the next 10 years:

Property
East Valley Oaks, P. 6
Magness Property, P. 4
Richardson Property, P. 3
Magness Property, P. 3, lots 1&2
Kaharas Property
Fox Bow Addition, P. 139
Cameron Property, P. 117& 103
Sullivan Property, P. 247

Unit	Quantity	Unit Price	Total
LS	1	\$50,000.00	\$50,000.00
EA	2	\$2,000.00	\$4,000.00
EA	14	\$1,500.00	\$21,000.00
LS	1	\$55,000.00	\$55,000.00
LS	1	\$5,000.00	\$5,000.00
LF	1160	\$120.00	\$139,200.00
VLF	40	\$150.00	\$6,000.00
LF	1160	\$225.00	\$261,000.00
LF	1160	\$15.00	\$17,400.00
LF	530	\$50.00	\$26,500.00
EA	1	\$4,000.00	\$4,000.00
LF	1	\$70.00	\$5,600.00
LS	1	\$20,000.00	\$20,000.00
Subtotal			\$484,700.00
Mobilization			\$14,541.00
Subtotal			\$499,241.00
LS	1	\$24,962.05	\$24,962.05
Project Subtotal			\$654,203.05
28% Contingency			\$130,840.61
Subtotal			\$785,043.66
Multiplier to inflate all costs at 4% for 10 years			1.48
Inflated Costs			\$1,161,865
Easement Compensation			\$100,000.00
Project Total			\$1,261,865
Less Valley Oaks West Contribution (per PWUA)		\$	100,000
Less Amount of Recouped Funds To-date		\$	33,600
Less Amount yet to be recouped from Valley Oaks West (73 x \$1600)		\$	116,800
Total Recoupable Amount			\$1,011,465
LA	57		
LA	12		
LA	42		
LA	9		
LA	43		
LA	4		
LA	240		
EXHIBIT 'C'	29		
Total	436		



HARFORD COUNTY, MD
DEPARTMENT OF PUBLIC WORKS

\$1,011,465 / 436 Eq. Units = \$2,320 per equivalent unit

PLUMTREE COLLECTOR SEWER POLICY

40. Hickory Collector Section 2 Recoupment Project 919173 (HC2)

- (PWUA date: 4/14/1998)
- The term of the recoupment was established to be 20 years or until 56% of the project cost has been recovered as determined by the cost affidavit, whichever is first.
- The developer of the residential community known as Castle Blaney was required to design and construct a sewer main and appurtenances, etc. from existing sewer contract 9649 running parallel along Maryland Route 23 for approximately one thousand and twenty seven linear feet (1,027 lf) and terminating at manhole 7 of contract 9826.
- The recoupment charge to be paid by each user, excluding the units developed in Castle Blaney and excluding properties served by County sewer as of the date of the PWUA, who desires to be served by the sewer facilities constructed as described in the PWUA shall be as follows:
 - A residential dwelling unit shall pay \$443.00 per unit.
 - A nonresidential connection shall pay \$443.00 per number of sets of hook-up charges as calculated by PART 4 of the Rules & Regulations.
- The recoupment charge shall be collected at the time all other hook-up charges are paid.

41. Joppa Area Sewer Offsite Utility Recoupment (JA1, JA2, JA3)

- Also known as “Gunpowder Offsite Sewer Recoupment”
- (PWUA date: 7/28/1998)
- The term of the recoupment was established to be 20 years or until the project cost of \$4,201,859.00 as outlined in the PWUA has been recovered, whichever is first.
- The developer of the community of Gunpowder was willing to advance the initial cost and expense to construct a sewage pumping station, force main and gravity sewer for connection to the Winter’s Run Interceptor.
- The recoupment charge to be paid by each user who desires to be served by or through the sewer facilities and, even if the property connects to public sewer facilities other than those described, shall be as follows: as identified in Legislative Bill No. 98-25 enacted to add new Article X, Joppa Area Sanitary Subdistrict, to Chapter 256, Water and Sewers, of Harford County Code, as amended; to establish a new sanitary Subdistrict (sewer only), to establish recoupment charges for properties within the Subdistrict and to create parameters for the calculation and payment of recoupment charges.
 - An existing residential dwelling unit, which is existing or for which a building permit had been issued as of July 28, 1998, shall pay \$1,167.00 per unit.
 - A future residential dwelling unit, for which a building permit is issued after the date of July 28, 1998, shall pay \$ 2,332.00 per unit.
 - A nonresidential connection shall pay \$16,171.00 per acre. The County is required by legislation to collect the Joppa Area Sanitary Recoupment charge based on the entire acreage of the parcel listed in the deed which was recorded in the Harford County Courthouse as of September 21, 1998.
- The recoupment charge shall be collected at the time all other hook-up charges are paid.

42. Towne Center Drive Pumping Station Improvements Recoupment Project 4134 (TC1, TC2)

- (PWUA date: 3/12/1999)
- The term of the recoupment was established to be 10 years or until the project cost of \$12,774.00 as outlined in the PWUA has been recovered, whichever is first.
- The developer of the community of Taylor's Point was required to improve the existing sewage pumping station and install a two inch water hydrant as shown on contract 4134.
- The recoupment charge to be paid by each user, excluding those units developed in the Taylor's Point development, who will utilize the improvements constructed pursuant to the PWUA shall be as follows:
 - A residential dwelling unit shall pay \$2,339.00 per unit.
 - A nonresidential connection shall pay \$2,339.00 per number of sets of hook-up charges as calculated by PART 4 of the Rules & Regulations.
- The recoupment charge shall be collected at the time all other hook-up charges are paid.

43. Leeswood Garth Parallel Sewer Policy (LG1)

- (established 5/1/1999, revised 6/2001)
- (PWUA date: 4/20/1999, for design of a portion of off-site sewer)
- All of the fees collected by Harford County shall be reimbursed to the developer of the Hickory Village Center until the design cost has been paid in full. All surcharge fees collected thereafter shall be used by the Harford County Division of Water and Sewer to fund the improvements to the sewer system.
- The majority of the existing collector sewer that is over capacity lies within the streets of the Leeswood Garth subdivision. It is not practical to construct a parallel sewer within the streets of the subdivision. Therefore, the most feasible location for the parallel sewer is within the open-space area parallel to Route 543 at the rear of existing lots in the Leeswood Garth subdivision.
- The surcharge to be paid by each user who will contribute sewage flow through the existing inadequate sewer lines or the Leeswood Garth Parallel Sewer shall be as follows:
 - A residential dwelling unit shall pay \$3,601.00 per unit.
 - A nonresidential connection shall pay \$3,601.00 per number of sets of hook-up charges as calculated by PART 4 of the Rules & Regulations.
- The recoupment/surcharge charge shall be collected at the time all other hook-up charges are paid.
- Properties within the subdivisions of Vineyard Oaks and Vineyard Oaks North are not subject to this policy.

Analysis of the drainage area that is served by the Leeswood Garth Sewer has determined that the development of the remaining parcels within the drainage area will cause the collector sewer which traverses the Leeswood Garth subdivision to be over its rated capacity. Therefore, a parallel sewer must be constructed to provide additional capacity to serve the remainder of the drainage area. The purpose of this policy statement is to identify the extent of improvements that are required to the existing sewer, to determine when they are required, the costs associated with them and the method for recovering those costs.

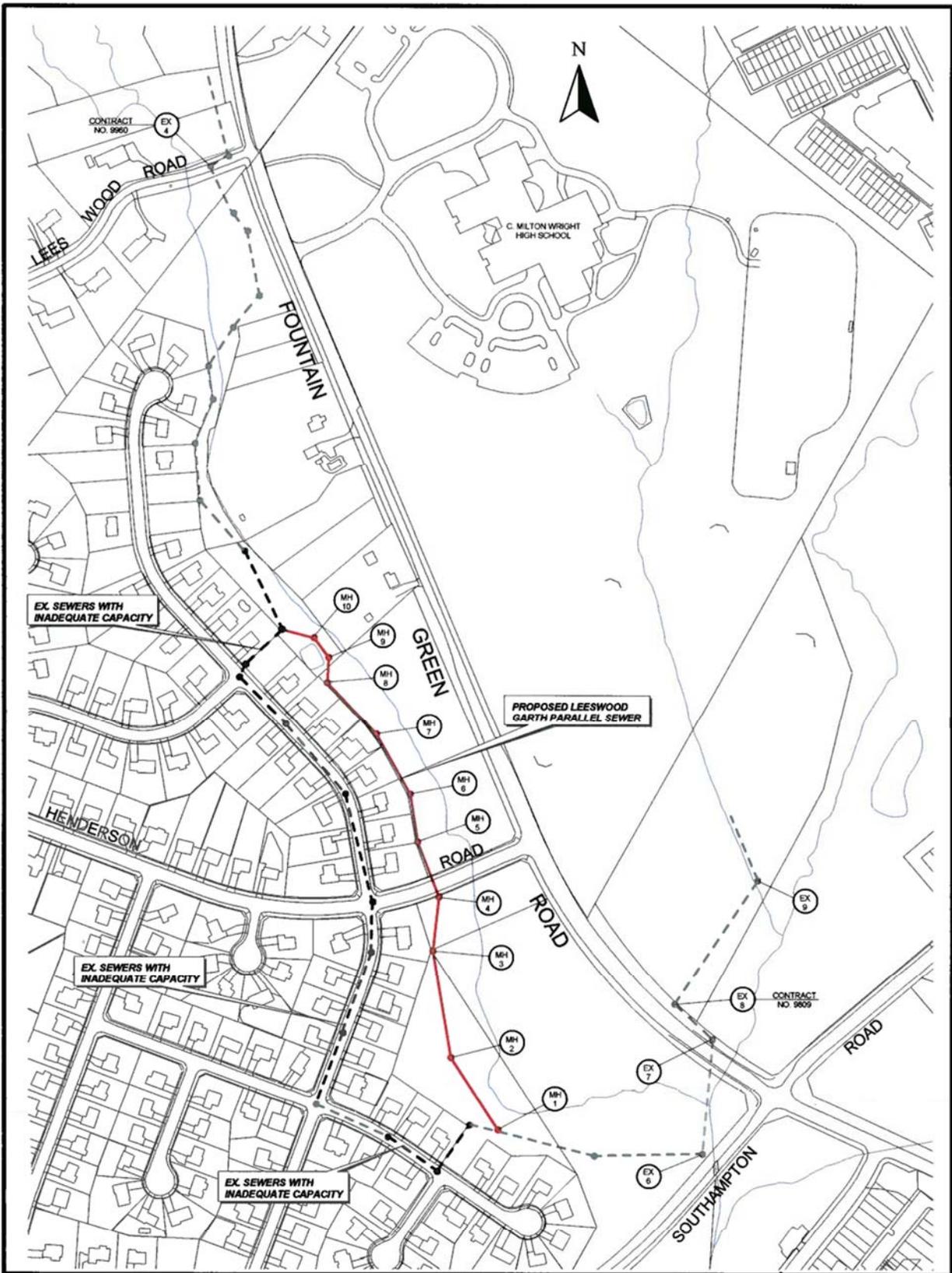
The majority of the existing collector sewer that is over capacity lies within the streets of the Leeswood Garth subdivision. It is not practical to construct a parallel sewer within the streets of the subdivision. Therefore, the most feasible location for the parallel sewer is within the open-space area parallel to Route 543 at the rear of existing lots in the Leeswood Garth subdivision. Exhibit A shows the location of the sewer which is over capacity as well as the location of the parallel sewer. Exhibit B shows the intended limits of the surcharge/recoupment area for this policy. Any connection which will flow through this portion of the line will be subject to the costs associated with this project's policy.

The design of the parallel sewer will be performed by the developer of the Hickory Village Center subdivision concurrent with the development of the second undeveloped lot within that subdivision if it has not been previously

designed by another party. The design portion of the project shall include preparing the construction drawings and any required easement plats as well as obtaining Maryland Department of the Environment Construction permits, approved Sediment and Erosion Control drawings and Army Corps of Engineers permits and any other applicable permits required for construction. The developer of Hickory Village Center shall submit a bond or letter of credit for the aforementioned work to Harford County along with an executed contract with an engineering firm, to have this work performed. A Notice to Proceed for the engineering contract, as well as the bond or letter of credit, must be submitted to Harford County before the building permit for the proposed use on the second undeveloped lot can be released. The developer of the Hickory Village Center shall be eligible to recoup the cost of engineering for the aforementioned sewer line. All of the fees collected by Harford County shall be reimbursed to the developer of the Hickory Village Center until the design cost has been paid in full. All surcharge fees collected thereafter shall be used by the Harford County Division of Water and Sewer to fund the improvements to the sewer system. Construction of the parallel sewer will be performed by Harford County as a capital improvement project subject to the approval of the Harford County Council.

Construction of the parallel sewer shall be performed by Harford County. However, if development of any lot within the drainage area will cause the flows within the Leeswood Garth Sewer to exceed its peak capacity, prior to the parallel being made operational, then those lots can not be connected to the sewer and must wait until the parallel is completed.

It is the intent of this policy to have the remaining connections other than those in the Vineyard Oaks and Vineyard Oaks North Subdivision which will flow through the existing inadequate sewer lines or the proposed parallel sewer constructed as a result of this policy, contribute an equal share of the cost of the improvements based upon a dollar amount for each equivalent flow unit. Apartments, condominiums and trailer/mobile homes shall be considered as one equivalent flow unit for the purpose of paying the surcharge established by this policy. A surcharge is an amount of money paid per equivalent flow unit for a project that is not yet completely financed or has not yet been constructed. The term of the surcharge agreement shall continue indefinitely or until such time that the parallel system is at capacity. Harford County shall retain all surcharge money above and beyond the fees owed to the developer of Hickory Village Center for the actual design as fixed in Exhibit C. The project costs are shown in Exhibit C. Any properties which will contribute sewage flow through the existing inadequate sewer lines of the Leeswood Garth Parallel Sewer, with the exception of the subdivisions of Vineyard Oaks and Vineyard Oaks North, shall pay the per equivalent unit amount shown in Exhibit D at the time that all other hook-up charges are paid.



HARFORD COUNTY GOVERNMENT
 DIVISION OF WATER AND SEWER
 101 SOUTH MAIN STREET
 BEL AIR, MARYLAND 21014
 (410)638-4811

EXHIBIT "A"
 LEESWOOD GARTH
 PARALLEL SEWER

SCALE: NONE
 DRAWN BY: CBG
 DATE: MAY. 15, 2001
 FILE: d:\arcproj\dwf\cmw\mp.apr



HARFORD COUNTY GOVERNMENT
 DIVISION OF WATER AND SEWER
 101 SOUTH MAIN STREET
 BEL AIR, MARYLAND 21014
 (410) 638-330

EXHIBIT "B"
**LEESWOOD GARTH PARALLEL SEWER PROJECT
 SURCHARGE / RECOUPMENT AREA**

SCALE: NONE
 DRAWN BY: CBG
 DATE: MAR. 23, 1999
 FILE: d:\arcproj\dwt\cmwimp.apr

EXHIBIT "C"
Construction Cost Estimate for the Leeswood Garth Parallel Sewer

Limit of Work: Ex SMH 5 (Contract #9960) to Ex SMH 8 (Contract #2809) &
 Ex SMH 7 to SMH 8 (Contract #2809)

Item	Description	Quantity	Unit	Unit Cost	Total Cost
1.	Sewer (8" C-905 PVC)				
	-clearing & grubbing	0.2	AC	5,000.00	1,000.00
	-pipe	2905	LF	30.00	87,150.00
	-manholes	195	VLF	200.00	39,000.00
2.	Other				
	-20" steel sleeve/jacking	60	LF	300.00	18,000.00
	-paving repair	80	SY	50.00	4,000.00
	-traffic control	1	LS	2,000.00	2,000.00
	-manhole/channel work	3	LS	1,400.00	4,200.00
	-existing utility pole bracing	11	EA	500.00	5,500.00
3.	Rehabilitate existing off-site manholes (Contract #6099)	4	LS	1,400.00	5,600.00
4.	Sediment Control	1	LS	5,000.00	5,000.00
5.	Dewatering	4	LS	1,000.00	4,000.00
6.	General Conditions incl. O & P	1	LS	1,800.00	<u>1,800.00</u>
	SUBTOTAL				\$177,250.00
	Construction Contingency(10%)			17,725.00	<u>17,725.00</u>
	SUBTOTAL				\$194,975.00
	Contract Administration (2.5%)			4,874.00	<u>4,874.00</u>
	SUBTOTAL				\$199,849.00
	Project Contingency (10%)			19,985.00	<u>19,985.00</u>
	Total Estimated Construction Cost =				\$219,834.00
	Debt Service Factor* =				1.744
	Construction Cost with Debt Service =				\$383,390.00
	Engineering Cost =				\$20,000.00
	Total Project Cost =				\$403,390.00

*Based on 6% over 20 years

Exhibit "D"
Calculation of the Surcharge/Recoupment Amount

<u>Subdivision/Parcel No.</u>	<u>Eq. Units</u>
Ex. Parcels south of Wyndemede (p. 616 Lots 1-6, 329, 327, 214) □ 8 ac.	9
Parcel 335 - Barber property	4
Ex. Parcels along Route 543 at Wyndemede (p. 321, 322, 323, 324, 325, 326)	6
Ex. Parcels above Hickory By-pass (p. 318, 319, 414)	4
Parcel 8 □9 ac.	5
Parcel 29 (Tamberino's) (.77 ac.)	3
Parcel 33 (Village Video) (.45 ac.)	2
Parcel 138 (Citgo) (1.0 ac.)	2
Parcel 386 Lots 1 & 2 (1.45 ac.)	4
Parcel 278 (1.25 ac.)	5
Parcels 620, 633 (1.66 ac.)	5
Parcel 82 (Board of Education) (6.8 ac.)	6
Parcel 9 Wyndemede - 13 Lots (46.1 ac)	39
Parcels 366, 367 (Harford County) 78 persons x 15 gal/person/day	4.33
Parcel 185 (Hickory Village Center)	14
Total Eq. Units 112	

Cost per Eq. Unit = \$403,390/112 = \$3,601.69 say \$3,601

44. Washington Avenue Pumping Station Recoupment Project 9835
(WA1, WA2, WA3)

- (PWUA date: 5/19/1999)
- The term of the recoupment was established to be 20 years or until \$318,054.00 or approximately 59% of the project cost as outlined in the PWUA has been recovered, whichever is first.
- The developer of the community of Long Bar Harbor, Section V, was two inch water hydrant as shown on contract 4134.
- The recoupment charge to be paid by each user, excluding those units developed in Long Bar Harbor, Section V, who desires to be served by the sewer facilities constructed pursuant to the PWUA shall be as follows:
 - A residential dwelling unit shall pay \$1,738.00⁽¹⁾ per unit.
 - A nonresidential connection shall pay \$1,738.00⁽¹⁾ per number of sets of hook-up charges as calculated by PART 4 of the Rules & Regulations.
- The recoupment charge shall be collected at the time all other hook-up charges are paid.
- Actual total project cost for the purpose of recoupment may not exceed the estimated cost. If the actual total project cost is determined by the County to be less, the recoupable amount to be paid to the developer and per-unit recoupment charge for connections will be adjusted by the County accordingly.

⁽¹⁾ The per-unit recoupment charge was recalculated from documentation submitted by the developer in the cost affidavit.

45. Hidden Stream Section 1 Recoupment Project 9631 (HS2)

- (PWUA date: 1/19/2000)
- The term of the recoupment was established to be 20 years or until \$113,400.00 or approximately 43% of the project cost has been recovered, whichever is first.
- The developer of the residential community known as Hidden Stream, Section 1 entered into an agreement with the County to receive reimbursement from applicable users of the Two Thousand One Hundred and Fifty-Eight linear feet (2,158 lf) of twelve inch (12") sewer main from manhole #5 to the existing interceptor as shown on contract 9631.
- The recoupment charge to be paid by each user, excluding the units developed in the Hidden Stream Development, who desires to be served by the sewer facilities constructed as described in the PWUA shall be as follows:
 - A residential dwelling unit shall pay \$378.00 per unit
 - A nonresidential connection shall pay \$378.00 per number of sets of hook-up charges as calculated by PART 4 of the Rules & Regulations.
- The recoupment charge shall be collected at the time all other hook-up charges are paid.

46. Ah-ha Collector Sewer Relief Policy (AH1)

- (established 4/2000)
- The section of sewer with inadequate capacity is approximately 1,950 linear feet beginning at the Winter's Run Pumping Station and extending northward to manhole number 6 near the West Shore Townhouse Community as shown on Contract Number 5015. It is located within an environmentally sensitive area.
- The surcharge to be paid by each user who will contribute sewage flow through the existing inadequate sewer lines or the replacement sewer shall be as follows:
 - A residential dwelling unit shall pay \$1,517.00 per unit.
 - A nonresidential connection shall pay \$1,517.00 per number of sets of hook-up charges as calculated by PART 4 of the Rules & Regulations.
- The surcharge shall be collected at the time all other hook-up charges are paid.
- Properties owned by Art Builders in accordance with the Harford County Council Resolution 1-77 adopted January 4, 1977, are not subject to this policy.

Using the criteria established in the Adequate Public Facilities Ordinance of the Harford County Code, it has been determined that a portion of the Ah-ha Collector Sewer does not have adequate capacity to handle the anticipated sewage flows which will be generated by the build-out of the sewage drainage area. Therefore, this policy has been written to establish surcharge/recoupment fees to cover the projected cost of a Harford County managed construction project, which will provide the appropriate improvements to achieve the required relief. The section of sewer with inadequate capacity is approximately 1,950 linear feet beginning at the Winter's Run Pumping Station and extending northward to manhole number 6 near the West Shore Townhouse Community as shown on Contract Number 5015. It is located within an environmentally sensitive area. An engineering study was performed to determine the best method of accomplishing an ultimate sewer capacity solution. After evaluating several alternatives, it was concluded that pipe bursting would be the preferred method of construction when considering both the cost and environmental impact factors. For the purpose of this policy, the cost estimate to determine the surcharge amount is based upon the recommended alternative in the engineering report. Prior to construction, the County will evaluate different alternatives to determine if the recommended solution is still applicable.

It is the intent of this policy to have the potential connections contribute their proportionate share of the construction costs of the capacity relief project based upon the number of equivalent flow units generated by the development of the properties. Apartments, condominiums and trailer/mobile homes shall be considered as one equivalent flow unit for the purpose of paying the surcharge/recoupment amount established by this policy. Exhibit A shows the general limits of the surcharge/recoupment area of this policy. It is the intent of this policy to have any new units connecting to the sewer system which flow through the existing inadequate sewer lines contribute their proportionate share of the project except for new connections made to the sewer system by Art

Builders in accordance with the Harford County Council Resolution 1-77 adopted January 4, 1977. Except as noted above, any connections made to the sewer system whose sewage will flow through the replacement sewer shall be responsible for paying the surcharge/recoupment amount as stated in this policy at the time all other hook-up charges are paid to the County. The cost of the above described project, as well as the calculation of the surcharge/recoupment amount can be found in Exhibit B.

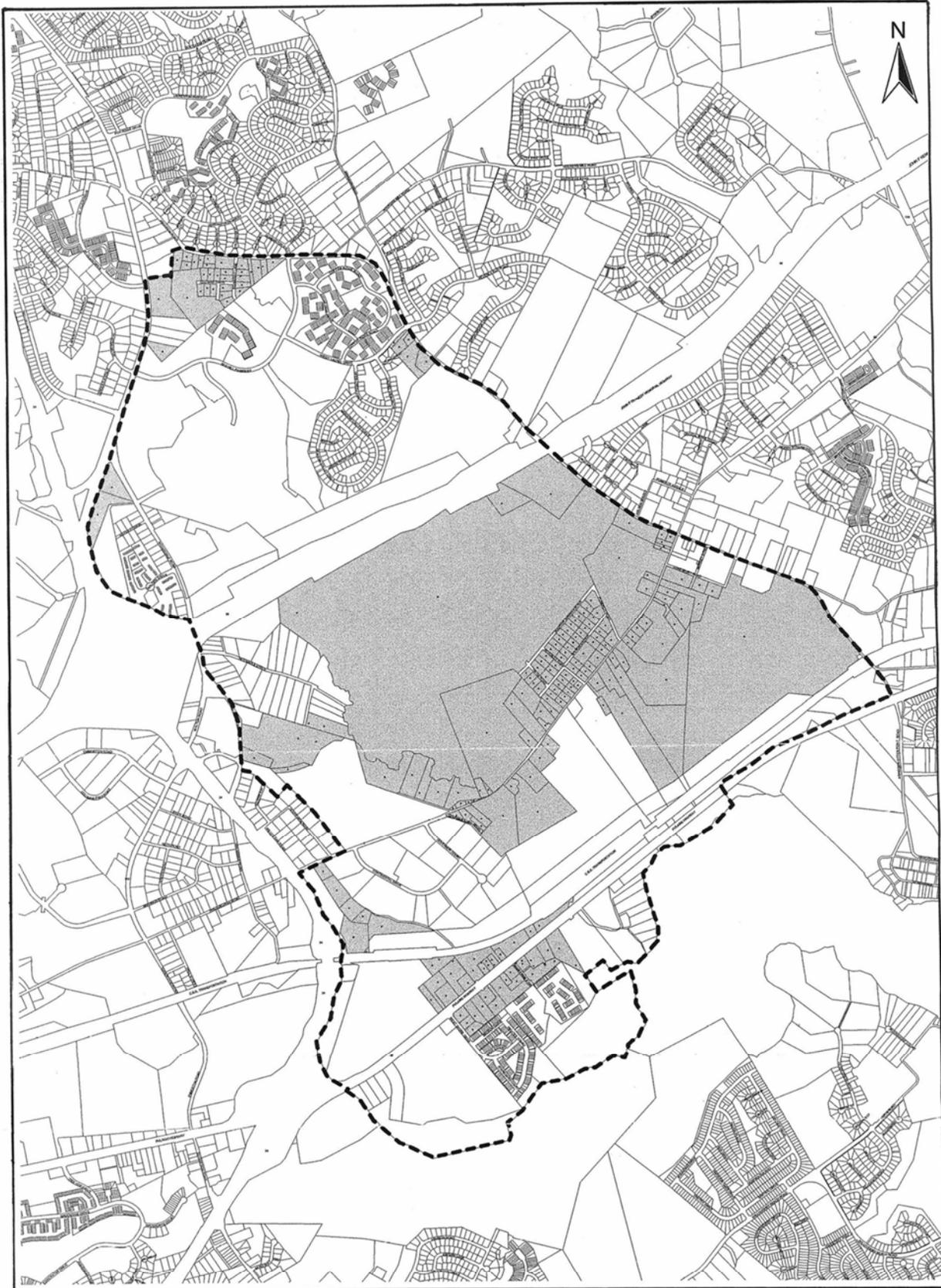


EXHIBIT "A"
AH-HA COLLECTOR SEWER
RELIEF POLICY

LEGEND

-  PROPERTIES WHICH WERE USED TO CALCULATE THE RECOUPMENT/SURCHARGE AMOUNT
-  GENERAL LIMITS OF THE RECOUPMENT/SURCHARGE AREA

SCALE: NONE
 DRAWN BY: CBG
 DATE: APRIL 05, 2000
 FILE: d:\arcproj\dwhaha.apr

EXHIBIT B

Calculation of Estimated Construction Costs

Work Description	Quantity	Unit	Unit Cost	Price
Pipe Bursting	1,950	LF	\$308.00	\$600,600.00
Bypass Pumping	1	LS	\$170,000.00	\$170,000.00
Land Acquisition	1	LS	\$100,000.00	\$100,000.00
Rehab. Exist. Manholes	6	EA	\$9,200.00	\$55,200.00
Concrete Encase Crossings	60	CY	\$500.00	\$30,000.00
Subtotal				\$955,800.00
20% Contingencies				\$191,160.00
Engineering/Easement Plats/Soil Borings				\$70,000.00
County Project Management Cost				\$25,000.00
Total				\$1,241,960.00
Inflation factor, 3% for 10 years =				1.344
Project Cost with inflation =				\$1,669,194.00
Assume 50% of the project cost is collected in 10 years				\$834,597.00
Remaining amount to be financed				\$834,597.00
Debt Service Factor =				x1.743691*
Project cost to be financed with Debt Service =				\$1,455,279.00
TOTAL PROJECT COST				\$2,289,876.00

*Based on 6% over 20 years

Calculation of Surcharge Amount

Number of equivalent units benefited = 1,509**

\$2,289,876.00) 1,509 eq. units = \$1,517.48 use \$1,517/eq. Unit

**All of the properties within the bold outline shown on Exhibit A are benefited by the sewer construction outlined in this policy. However, for the purpose of calculating the surcharge/recoupment amount, only the units in the dark gray shaded area were used.

47. Edgewood Interceptor Sewer Extension Phase 1 Project 19429 (EI2)

- (established 12/28/2001)
- This policy establishes a recoupment to recover the funds expended by Harford County in accordance with section 256-6D.(3) of the Harford County Code. The term of the recoupment agreement shall be twenty (20) years.
- The project consists of the design and construction of a minimum of 3,040 linear feet of thirty (30) inch diameter gravity sewer. The sewer project begins at the existing terminus of the Edgewood Interceptor. However, it is the intent of this policy to construct a sewer across the property owned by Potts and Callahan as far as the available funding will allow.
- The recoupment charge to be paid by each user whose sewage will flow through the interceptor sewer shall be as follows:
 - A residential dwelling unit shall pay \$1,836.00 per unit.
 - A nonresidential connection shall pay \$1,836.00 per number of sets of hook-up charges as calculated by PART 4 of the Rules & Regulations.
- The recoupment charge shall be collected at the time all other hook-up charges are paid.
- Properties known as the GAP property, “Greater Harford Industrial Park”, are not subject to this recoupment.

This policy identifies the limits of the construction of Phase 1 of the Edgewood Interceptor Sewer, the mechanism for funding the project and who is responsible for its design and construction. The project consists of the design and construction of a minimum of 3,040 linear feet of thirty (30) inch diameter gravity sewer. Exhibit A identifies the location of the proposed sewer line. The sewer project begins at the existing terminus of the Edgewood Interceptor. However, it is the intent of this policy to construct a sewer across the property owned by Potts and Callahan as far as the available funding will allow. This portion of the sewer is shown dashed in the attached exhibit.

The developer of the Potts and Callahan property is responsible for the cost and preparation of plans, specifications, obtaining all necessary permits, and acquiring all necessary drainage and utility easements for the construction of the sewer. The construction of the project shall be performed by the developer of the Potts and Callahan property in accordance with an executed Public Works Utility Agreement.

The extension of the Edgewood Interceptor Sewer is a project that will be funded by the developer of the Potts and Callahan property (Tax Map 65, Parcel 382), the General Fund of Harford County and the Division of Water and Sewer. The estimated cost of the construction of the sewer project is \$900,000. Funding for the project is broken down as follows. \$300,000 for the project will be provided by the developer of the Potts and Callahan property. Harford County will contribute a total of \$600,000 towards the project: \$400,000 will be provided through the Economic Development office contingent upon them obtaining a DBED loan to provide adequate infrastructure improvements to serve the Joppa-Edgewood sewer shed; \$80,000 will be provided by the Division of Water and Sewer to offset the increase in pipe size to allow the future growth of the service area; \$120,000 will be provided by the Division of Water and Sewer for the existing sewage flow that will eventually come from the

abandonment of the Harford Square pumping station. All of the funding that is being provided by various Harford County offices is contingent upon obtaining approval from the Harford County Council.

Funding for this project shall be expended in the following manner. The developer's \$300,000 shall be the first funds expended, followed by the \$400,000 DBED Loan and finally the \$200,000 from the Water and Sewer Fund. Any unspent money will remain within the Water and Sewer Fund. If the project total is less than \$700,000, then the General Fund will retain the unspent balance.

The developer of the Potts and Callahan property shall obtain bids for the sewer line construction from a minimum of three (3) qualified utility contractors. All bids for the sewer line construction shall be separate from any other bids for other on-site work not related to the sewer construction. The Harford County Division of Water and Sewer shall review the bids and approve the lowest responsive and responsible bidder. Harford County has the right to reject any or all bids, or a portion thereof, if, in the County's judgment, the bids are unreasonable.

In the event that the project cost is less than \$900,000 after bids are received, this policy will be revised to amend the project limits to construct the maximum amount of 30-inch diameter sewer that can be built for \$900,000. The \$900,000 shall be used only for the construction of the interceptor sewer and excludes the costs of preparing plans and specifications, obtaining permits, easement acquisition and any inspection services. These costs are the responsibility of the developer above and beyond their \$300,000 contribution. In the event that the sewer project costs for the 3,040 linear feet of 30" diameter gravity sewer exceeds \$900,000, the additional funds to construct the sewer will be provided by the developer. The calculation of the recoupment amount is shown below. With exception of the GAP property, the owner of any property whose sewage will flow through the interceptor sewer shall contribute a proportionate share of the recoupable project costs based upon the number of equivalent flow units generated by the development of the properties. The GAP shall not pay recoupment charges since they are providing easements across their property to allow construction of the sewer.

This policy establishes a recoupment to recover the funds expended by Harford County in accordance with section 256-6D.(3) of the Harford County Code. Apartment, condominiums and trailer/mobile homes shall be considered as one equivalent flow unit for the purpose of paying the recoupment established by this policy. The recoupment amount shall be paid on a lot by lot basis at the time that all other hook-up charges are paid. The term of the recoupment agreement shall be twenty (20) years.

Recoupable Costs

DBED Loan	\$400,000
Increased pipe size to allow for future development	<u>\$ 80,000</u>
Subtotal	\$480,000

Bond Variant Factor (20 yr @ 4.36%) = 1.5189276

Total recoupable projects costs = \$729,085.25

Properties benefited

No. of Eq. Units

Oak Grove/Stancills	211
Magnolia Mobile Home Park	35
Hanson Farm @ 70% utilized	71
Magnolia Road Associates Property	31
Magnolia Road Petition Area	<u>49</u>
	397 units

Calculation of Recoupment

$$\$729,085 \div 397 = \$1,836.49 \text{ use } \$1,836$$

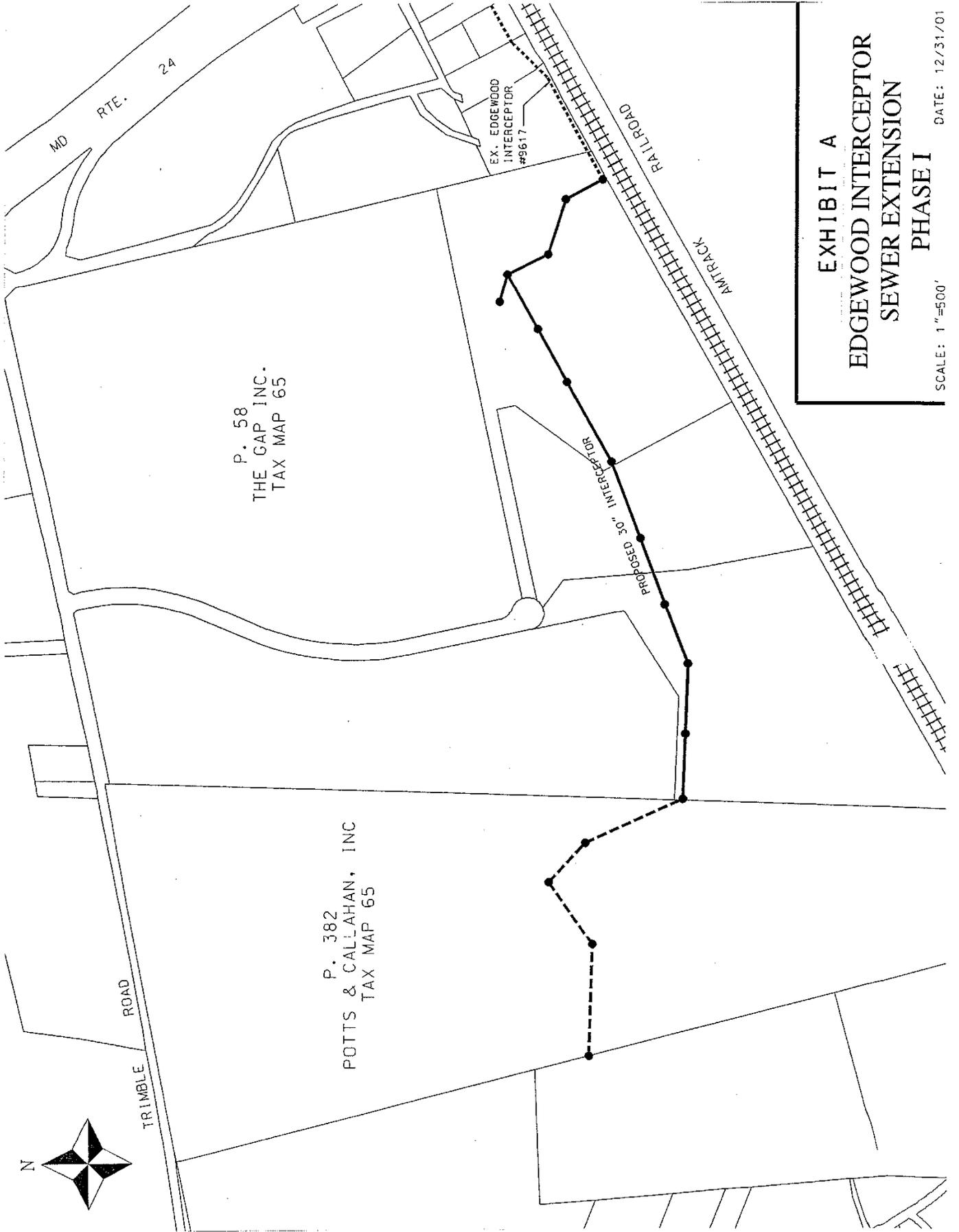


EXHIBIT A
 EDGEWOOD INTERCEPTOR
 SEWER EXTENSION
 PHASE I

SCALE: 1"=500'
 DATE: 12/31/01

48. Harford Square Collector Sewer Phase 1 Recoupment Project 19436 (HS3)
- (PWUA date: 10/24/2002)
 - The term of the recoupment was established to be 20 years or until the project cost of \$27,980.00 as outlined in the PWUA has been recovered and determined by the cost affidavit, whichever is first.
 - The developer of the commercial property known as Oldcastle (previously known as Strescon Industries, Inc.) was required to construct the Harford Square Collector Sewer Phase 1 at a larger size and greater depth, as required by the County.
 - The recoupment charge to be paid by each user, excluding those units developed on the property known as Oldcastle (previously known as Strescon Industries, Inc.), who desires to be served by the sewer facilities constructed as described in the PWUA shall be as follows:
 - A residential dwelling unit shall pay \$78.00 per unit.
 - A nonresidential connection shall pay \$78.00 per number of sets of hook-up charges as calculated by PART 4 of the Rules & Regulations.
 - The recoupment charge shall be collected at the time all other hook-up charges are paid.

49. Joppa-Magnolia Sewer Policy (EI3, FB1, FB2)

- Policy established 6/3/2003 (amended 5/14/2010)
- It is the intent of this policy to have all of the remaining potential connections that will eventually have sewage flowing through these sections of sewer facilities constructed as a result of this policy contribute an equal share of the cost of the improvements based upon a dollar amount for each equivalent flow unit.
- The term of the recoupment agreements shall be twenty (20) years from the date that the project is declared operational in writing by the County or until the recoupment project cost has been recovered and forwarded to the developer by Harford County, whichever is first.
- The recoupment charge amount shall be paid for each section or operational break of a subdivision in a lump sum payment prior to receiving operational approval of that section or operational break. With the exception of the charges for the Edgewood Interceptor Extension Phase III, subdivisions of 20 lots or less shall pay the recoupment charge on a lot by lot basis at the time all other hook-up charges are paid.

The purpose of the Joppa-Magnolia Sewer Policy is to develop a plan and associated funding mechanisms to extend a regional sewage collection system through the Joppa-Magnolia area of Harford County. The area is planned to be served by the extension of the Edgewood Interceptor Sewer approximately 4,050 feet westward from its existing ending point near the western property boundary of Old Castle Precast Inc.. A regional sewage pumping station located near Trimble Road at the Copenhaver Park will pump sewage from the Foster Branch drainage area into the proposed terminus of the aforementioned Edgewood Interceptor Sewer near the Magnolia Middle School. A collector sewer will extend northward along Foster Branch, providing service to all of the properties in the drainage area. The collector sewer will eventually be extended to Route 40, allowing the Pine Road Pumping Station to be abandoned. Exhibit A shows the general location of the existing and the proposed sewers, and the properties benefited by their construction. The design, permitting, easement acquisition and construction of the Edgewood Interceptor Sewer Extension Phase III as well as the Foster Branch Collector Sewer is intended to be performed by the developers of subdivisions within the Foster Branch drainage area. The design, permitting and construction of the Foster Branch Sewage Pumping Station and force main will be performed by Harford County. (Construction of the Edgewood Interceptor Sewer Extension Phase III was completed in 2008.)

Any project that is located within the sewer contract 6400 service area or is required to pay the fees associated with County capital project 6400 shall not pay the surcharges or recoupments created by this policy. The County shall determine which projects are located in the project 6400 service area. The general boundary of sewer project 6400 service area is shown as Exhibit B.

If the County determines that there is capacity remaining in the sewer system, residential subdivisions of five lots or less and commercial site plans with five equivalent units or less that are not within the contract 6400 service area whose

sewage will flow into the contract 6400 service area will be permitted to connect into the sewer system. These connections shall pay the fees associated with the Joppa-Magnolia service area when they connect to the public sewer.

It is the intent of this policy to have all of the remaining potential connections that will eventually utilize the sewers constructed as a result of this policy contribute a proportionate share of the cost of the improvements based upon a dollar amount for each equivalent flow unit. Apartments, condominiums and trailer/mobile homes shall be considered as one equivalent flow unit for the purpose of paying the recoupments or surcharges established by this policy. The project costs are shown in Exhibits C through E and are fixed by this policy. The amount of contribution or recoupment available to reimburse the developer who constructs the required sewers is dependent upon the actual number of units connected.

A surcharge is an amount of money paid per equivalent flow unit for a project that is not yet completely financed or has not yet been constructed. A recoupment is defined as an amount of money paid per equivalent flow unit for a project that has already been financed or constructed by another party.

The required work has been broken down into four sewer projects as identified in Exhibit A. These four projects are described below:

Edgewood Interceptor Sewer Extension Phase III (completed in 2008)

- The Edgewood Interceptor Sewer Extension Phase III will consist of approximately 1,350' of 24" diameter pipe at 0.13% minimum slope and 2,700' of 15" diameter pipe at 1.7% minimum slope.
- The surcharge to be paid by each user which will eventually have sewage flowing through this section of sewer facilities constructed as described in the Policy shall be as follows:
 - A residential dwelling unit shall pay \$1,902.00 per unit
 - A nonresidential connection shall pay \$1,902.00 per number of sets of hook-up charges as calculated by PART 4 of the Rules & Regulations.

The Edgewood Interceptor Sewer Extension Phase III will consist of approximately 1,350' of 24" diameter pipe at 0.13% minimum slope and 2,700' of 15" diameter pipe at 1.7% minimum slope. It is intended to be constructed by the first developer of any of the properties north of Trimble Road along Foster Branch with the exception of the Stancill/Oak Grove subdivision. The developer who constructs this sewer is entitled to receive a recoupment of the estimated project cost, as stated in Exhibit C, minus his proportionate share of the cost of the project. The lots that are created by the person or entity that builds this sewer shall not be subject to the Edgewood Interceptor Sewer Extension Phase III recoupment charge. The term of the recoupment agreements shall be twenty (20) years or until the recoupable project cost has been recovered and forwarded to the developer by Harford County, whichever is first. Every unit (except for those who pay the project 6400 charges) which will eventually have sewage flowing through this section of sewer must either pay the surcharge or the recoupment charge for this sewer project unless already connected to the

public sewer system prior to the effective date of this policy. The surcharge shall be paid on a lot by lot basis at the time all other hook-up charges are paid until the sewer extension is completed. After the sewer extension has been completed, the recoupment charge amount shall be paid for each section or operational break of a subdivision in a lump sum payment prior to issuance of the first building permit in that section or operational break. The amount of the surcharge/recoupment is calculated in Exhibit C.

Foster Branch Sewage Pumping Station and Force Main (completed in 2010)

- This pumping station will be sized and located to provide service to the Foster Branch drainage area. Approximately 2,220 feet of 12" diameter force main will connect the pumping station to an existing dry section of force main that was constructed in Trimble Road, allowing it to discharge into the Edgewood Interceptor Sewer.
- This project has been constructed by Harford County as a capital project.
- There are no surcharges or recoupments associated with this project.

Foster Branch Collector Sewer Phase I

- The Foster Branch Collector Sewer Phase I project will provide gravity sewer service to the Foster Branch drainage area including the Stancill/Oak Grove subdivision.
- The sanitary sewers described by this policy may be constructed in multiple segments as shown on Exhibit A. Recoupment agreements will be executed with the developer(s) to recover the construction cost in accordance with this policy. The developer's lots shall not pay the surcharge/recoupment towards the phase(s) that he constructs.
- The surcharge to be paid by each user which will eventually have sewage flowing through the facilities constructed as part of Phase I of the Policy shall be as follows:

Phase 1A	\$140 per unit
Phase 1B	\$1,891 per unit
Phase 1C	\$430 per unit

- A residential dwelling unit shall pay one charge per unit for each section of the sewer it utilizes.
- Likewise, a nonresidential connection shall pay one charge per set of hook-up charges, calculated as described by PART 4 of the Rules & Regulations.

The amount of the surcharge/recoupment is calculated in Exhibit D.

- After each phase of the sewer extension has been completed, the recoupment charge amount shall be paid for each section or operational break of a subdivision in a lump sum payment prior to receiving operational approval of that section or operational break. Subdivisions of 20 lots or less shall pay the recoupment charge on a lot by lot basis at the time all other hook-up charges are paid.

- The term of the recoupment agreements shall be twenty (20) years from the date that the project is declared operational in writing by the County or until the recoupable project cost has been recovered and forwarded to the developer by Harford County, whichever is first.
- The Dembytown Sewer Petition area is within the boundaries of this policy. Any property that has paid the Dembytown Sewer Petition assessment (Contract No. 6384) shall be allowed one sewer connection without paying the Foster Branch Collector Sewer charges. Since the Dembytown Sewer Petition area is at capacity, any additional lots created shall pay the Foster Branch Collector Sewer charges.
- The developer of the Stancill/Oak Grove subdivision may construct a sewage pumping station to facilitate the development of the subdivision if Phase 1B of the Foster Branch Collector Sewer is not built or under construction. If the station is constructed, Phase 1C of the Foster Branch Collector Sewer shall be designed and constructed concurrently as a dry sewer. The developer shall be responsible for the abandonment of the sewage pumping station. It's abandonment shall be guaranteed in the following manner:

At the time the Public Works Utility Agreement for the Stancill/Oak Grove subdivision pumping station is executed, the developer shall post a cash bond for the work necessary to abandon the sewage pumping station and connect it to the downstream gravity sewer. The amount of the cash bond shall be \$50,000 and may be adjusted annually by the County until the work begins. The County shall hold these funds in an escrow account until the Foster Branch Collector Sewer Phase 1C has been constructed and declared operational in writing by the County, thereby allowing the previously described work to commence. At this time, the developer of the Stancill/Oak Grove subdivision shall perform the work secured by the cash bond. The developer shall have 60 days to begin the design work. The construction of the gravity sewer and the abandonment of the sewage pumping station shall occur immediately after approval of the utility plans and the appropriate permits have been obtained. If in the opinion of Harford County, either of these work items have not proceeded in accordance with this policy, the County may take the funds and complete the project. The construction of the sewage pumping station does not relieve the lots in Stancill/Oak Grove subdivision from paying the surcharge/recoupment fees created by this policy.

Foster Branch Collector Sewer Phase II

- The Foster Branch Collector Sewer Phase II project will connect to Phase I and continue northward along Foster Branch towards the Pine road Sewage Pumping Station providing capacity for development. The project also includes the abandonment of the Pine Road Sewage Pumping Station.
- The sanitary sewers described by this policy may be constructed in multiple

segments as required by development. The maximum surcharge for the entire length of the Foster Branch Collector Sewer Phase II and for the abandonment of the Pine Road Sewage Pumping Station is \$3,921 per equivalent dwelling unit. The amount of the surcharge/recoupment is calculated in Exhibit E. The surcharge/recoupment amount will be broken down into smaller amounts according to the length and/or cost of the project constructed by each developer. The County shall determine the appropriate method of calculating the surcharge/recoupment for each segment. In no case shall the total surcharge amount for Phase II exceed \$3,921.00. The developer's lots shall not pay the surcharge/recoupment towards the phase(s) the he constructs.

- The Developer of the Stancill/Oak Grove subdivision shall construct Phase IIA of the Foster Branch Collector Sewer concurrent with the on-site sewers within the development. The Developer shall be eligible to receive a recoupment for the cost of the collector sewer in accordance with this policy.
- The surcharge to be paid by each user which will eventually have sewage flowing through this section of sewer facilities constructed as described in the Policy shall be as follows:
 - A residential dwelling unit shall pay one charge per unit for each section of the sewer it utilizes
 - Likewise, a nonresidential connection shall pay one charge per set of hook-up charges, calculated as described by PART 4 of the Rules & Regulations.
- After each phase of the sewer extension has been completed, the recoupment charge amount shall be paid for each section or operational break of a subdivision in a lump sum payment prior to issuance of the first building permit in that section or operational break. Subdivisions of 20 lots or less shall pay the surcharge/recoupment charge on a lot by lot basis at the time all other hook-up charges are paid.

Pumping Station No. 47 which is located on Joppa Farm Road receives sewage from its natural drainage area in Joppatowne. Currently this pumping station has the ability to pump in two directions through two separate force mains with a smaller pump directing flow to the Joppatowne WWTP and larger pumps pumping towards the Pine Road pumping station. This design was intended to allow future flows from the drainage area to be pumped away from the Joppatowne WWTP and discharged into the Pine Road pumping station for transmission to the Sod Run WWTP. Since this concept was first placed into practice, the capacity of the Joppatowne WWTP has been increased, allowing more sewage to be treated at the plant. It is the intention of the county to operate Pumping Station No. 47 in such a manner that the current and future sewage flows from its drainage area are pumped to the Joppatowne WWTP instead of the Pine Road SPS. This will allow any existing available capacity at the Pine Road station to be utilized by those properties that can flow by gravity into the sewers constructed by contract number 6400.

With the change in the operations of Pumping Station No. 47, the Pine Road Sewage Pumping Station will have an additional limited amount of capacity for new connections; however it may reach capacity before the contributory service area is fully developed. This policy addresses the projected capacity limitation through the construction of specific infrastructure, two major components of which are completed; the Foster Brach Sewage Pumping Station and the Edgewood Interceptor Phase III. The other major components of the plan, the Foster Branch Collector Sewer and the abandonment of the Pine Road Sewage Pumping Station will be constructed as development proceeds within the sewershed. Once constructed, sufficient capacity will be available for the sewershed, however the timing of this construction (by developers) is undetermined. This portion of the policy addresses how development within the service area will be allowed to continue until the safe capacity at the Pine Road station is reached. The County will continue to escrow any recoupment charges paid in accordance with the policy until the project is required to be constructed. If, in the opinion of the County, the Pine Road Sewage Pumping Station reaches capacity before it can be abandoned and the Foster Branch Collector Sewer constructed, the next developer who desires to connect to this system shall construct the required improvements as part of his project.

Using the analysis criteria described in the Adequate Public Facilities Ordinance for determining adequate capacity, the Clayton Collector Sewer does not have any capacity for new development without further improvements to the system. The County has determined that the best way to provide additional capacity in the Clayton Collector Sewer is to eliminate the flow from the force main of the Pine Road sewage Pumping Station. This can only be accomplished by eliminating the Pine Road Sewage Pumping Station and completing the construction of the Foster Brach Collector Sewer. Therefore, as a condition of development of any property that is both north of the CSX railroad and east of Mountain Road with greater than five residential units or five equivalent commercial units, the design, permitting, easement acquisition and construction of any unbuilt portion of the Foster Branch Collector Sewer and the abandonment of the Pine Road Pumping Station will be required. The redirection of the Pine Road Sewage Pumping Station flow will create more capacity in the Clayton Collector Sewer, allowing the affected area to continue to develop. These projects shall be completed concurrent with on-site facilities which will serve the development. The properties north of the CSX railroad and east of Mountain Road shall also pay all of the fees associated with the Joppa-Magnolia Sewer Policy although they do not flow through the Foster Brach Collector Sewer System since they are benefited by the projects described in the policy.

The developer(s), who constructs the sewer(s) and/or abandons the Pine Road Sewage Pumping Station, shall be entitled to receive a recoupment of the estimated project cost, as stated in Exhibit E. If sewage from the developer's subdivision/project will flow through the sewer line that he constructs, his proportionate share of the project shall be subtracted from the recoupable amount. The lots that are created by the person or entity that builds this sewer shall not be subject to the recoupment charges for the phase(s) of sewer that he constructed. The term of the recoupment agreements shall be twenty (20)

years or until the recoupable project cost has been recovered and forwarded to the developer by Harford County, whichever is first. Every unit which will eventually have sewage flowing through this section of sewer must either pay the surcharge or the recoupment charge for this sewer project. The surcharge shall be paid on a lot by lot basis at the time all other hook-up charges are paid until the sewer extension is completed. After the sewer extension has been completed, the recoupment charge amount shall be paid for each section or operational break of a subdivision in a lump sum payment prior to issuance of the first building permit in that section or operational break. The amount of the surcharge/recoupment is calculated in Exhibit E.



EXHIBIT "B"

SEWER PROJECT 6400
SERVICE AREA

Date: JUNE 2003

EXHIBIT C

**EDGEWOOD INTERCEPTOR SEWER EXTENSION - Phase III
Old Castle Property to Magnolia Middle School(1,350 LF 24" Sewer @ 0.13%
and 2,700 LF 15" Sewer @ 1.7%)**

	Unit	Quantity	Unit Price	Total
Part 1 - Design, Easement Acquisition and Project Management	LS	1	\$217,400.00	\$217,400.00
Part 2 - Construction				
Traffic Control	LS	1	\$5,000.00	\$5,000.00
15" Sewer	LF	2700	\$60.00	\$162,000.00
24" Sewer	LF	1350	\$75.00	\$101,250.00
4' Dia. Manholes	VLF	190	\$150.00	\$28,500.00
5' Dia. Manholes	VLF	220	\$350.00	\$77,000.00
Miscellaneous Restoration	LS	1	\$35,000.00	\$35,000.00
Connect Magnolia Mid. School to Interceptor	LS	1	\$25,000.00	\$25,000.00
				Subtotal
				\$433,750.00
				Mobilization
				\$13,012.50
				Subtotal
				\$446,762.50
Part 3 - Inspection				
Inspections @ 5%	LS	1	\$22,338.13	\$22,338.13
Subtotal				
				Project Subtotal
				\$686,500.63
				20% Contingency
				\$137,300.13
				Project Total
				\$823,800.75
				Bond Variant Factor at 5% for 20 years
				x1.6048
				Total Project Cost
				\$1,322,035
				100% Projected New Connections
				1,390
				Surcharge/Recoupment per Equivalent Dwelling Unit(EDU) at 50% buildout
				\$1,902

EXHIBIT D

FOSTER BRANCH COLLECTOR SEWER PHASE I

Foster Branch PS to Stancill/Oak Grove Subdivision (5,600 LF 15 - 18" Sewer @ 0.5%)

	Unit	Quantity	Unit Price	Total
Part 1 - Design, Easement Acquisition, and Project Management	LS	1	\$304,400.00	\$304,400.00
Part 2 - Construction				
Traffic Control	LS	1	\$0.00	\$0.00
15" - 18" Sewer	LF	5600	\$70.00	\$392,000.00
4' Dia. Manholes	VLF	290	\$150.00	\$43,500.00
Miscellaneous Restoration	LS	1	\$40,000.00	\$40,000.00
				Subtotal
				\$475,500.00
				Mobilization
				\$14,265.00
				Subtotal
				\$489,765.00
Part 3 - Inspection				
Inspections	LS	1	\$24,488.25	\$24,488.25
Subtotal				
				Project Subtotal
				\$818,653.25
				20% Contingency
				\$163,730.65
				Project Total
				\$982,383.90

Calculation of Surcharge:

Bond Variant Factor at 5% for 20 years	1.6048
Total Recoupable Amount \$982,383.90 x 1.6048	\$1,710,416.46
100% Project New Connections	1,390
Projected Connections at 50% Buildout	695
Cost per Equivalent Dwelling Unit (EDU) at 50% buildout	\$2,461.00

Breakdown of Cost per EDU for each part of Phase I

<u>Sewer Section</u>	<u>Length</u>	<u>% of total length *</u>	<u>Recoupable Cost **</u>	<u>Charge per EDU***</u>
Phase 1A	461	5.68	\$97,152.00	\$140.00
Phase 1B	3,054	76.83	\$1,314,113.00	\$1,891.00
Phase 1C	2,085	17.49	\$299,152.00	\$430.00

*Based upon estimate of probable cost by Comer Const. dated 6/4/09.

**Based on total project cost of \$1,710,416.46.

***Units created by the developer that constructs the phase shall not pay this charge.

****This is the maximum dollar amount per unit that can be collected for this phase.

EXHIBIT E

FOSTER BRANCH COLLECTOR SEWER PHASE II

Stancill/OakGrove Subdivision to Pine Road PS(3,050 LF 12" Sewer @1.4%)

	Unit	Quantity	Unit Price	Total
Part 1 - Design, Easement Acquisition, and Project Management	LS	1	\$210,200.00	\$210,200.00
Part 2 - Construction				
Traffic Control	LS	1	\$5,000.00	\$5,000.00
12" Sewer	LF	3050	\$60.00	\$183,000.00
Abandon Pine Road PS	LS	1	\$70,000.00	\$70,000.00
4' Dia. Manholes	VLF	150	\$150.00	\$22,500.00
Miscellaneous Restoration	LS	1	\$20,000.00	\$20,000.00
	Subtotal			\$300,500.00
	Mobilization			\$9,015.00
	Subtotal			\$309,515.00
Part 5 - Inspection				
Inspections @5%	LS	1	\$15,475.75	\$15,475.75
Subtotal				
	Project Subtotal			\$535,190.75
	20% Contingency			<u>\$107,038.15</u>
	Project Total			\$642,228.90

Assume Project will be constructed in 10 years	
Inflated Project Costs at Est. Time of Construction (4% @ 10 years)	1.48
Total Inflated Project Cost	\$950,498.77

Bond Variant Factor at 5% for 20 years	<u>x1.6048</u>
Total Project Cost	\$1,525,360.43

Cumulative Projected Flow	1.63 mgd
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100% Projected New Connections	778
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Surcharge/Recoupment per Equivalent Dwelling Unit at 50% buildout	\$3,921
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50. Monmouth Meadows Phase 4 Sewer Recoupment Project 19457 (MM1)
- (PWUA date: 11/17/2003)
 - Term of the recoupment was established to be 20 years or until the project cost of \$36,884.00 as outlined in the Agreement has been recovered, whichever is first.
 - The Developer was required to design and construct a portion of the on-site sewer facilities within the development of Monmouth Meadows Phase 4 at a larger size and greater depths to serve the adjoining property known as the "Graham Property" with gravity sewer.
 - The recoupment charge to be paid by the developer of the property known as "Emily Bayless Graham" (Tax Map: 56, Parcel: 101) a 115.30 acre parcel shall be \$36,884.00. The developer of the "Graham Property" will be required to pay the total recoupment amount in a lump sum payment prior to the issuance of the first building permit of that development.
 - The recoupment charge shall be collected at the time all other hook-up charges are paid.

51. Old Trails Pumping Station Recoupment Project 19580 (OT1)
- (PWUA date: 7/31/2006)
 - Term of the recoupment was established to be 20 years or until the project cost of \$244,860.60, as outlined in the Agreement, has been recovered, whichever is first.
 - The Developer of the community of Old Trails was required to design and construct a sewage pumping station, force main and gravity sewer running within the development of Old Trails as shown on contract 19580.
 - The recoupment charge to be paid by each user, excluding those units developed in the Old Trails development, who desires to be served
 - A residential dwelling unit shall pay \$3,601.00 per unit
 - A nonresidential connection shall pay \$3,601.00 per number of sets of hook-up charges as calculated by PART 4 of the Rules & Regulations.
 - The recoupment charge shall be collected at the time all other hook-up charges are paid.

52. Bear Cabin Branch Sewage Pumping Station Policy (BB1)

- (Policy established 10/5/2006)
- It is the intent of this policy to have all of the remaining potential connections that will eventually have sewage flowing through these sections of sewer facilities constructed as a result of this policy contribute an equal share of the cost of the improvements based upon a dollar amount for each equivalent flow unit.
- The term of the recoupment agreements shall be twenty (20) years or until the recoupment project cost has been recovered and forwarded to the developer by Harford County, whichever is first.
- The recoupment charge amount shall be paid for each section or operational break of a subdivision in a lump sum payment prior to issuance of the first building permit in that section or operational break.

Introduction

There are several parcels located within the Bear Cabin Branch drainage area that have development potential, however, due to the lack of capacity in the County sewage collection system, these properties cannot subdivide until the adequacy limitations are resolved. These properties are located within close proximity to several existing sewage pumping stations that have no remaining capacity in them. Therefore, construction of a new regional sewage pumping station will be required to allow development of any additional parcels. The new regional pumping station, here after known as the Bear Cabin Branch Sewage Pumping Station (BCBSPS), will allow for the abandonment of three existing sewage pump stations that are currently at capacity. These stations are Parliament Ridge, Cedarwood and Harford Estates. The remaining undeveloped parcels would need to utilize either the Parliament Ridge or Cedarwood pumping stations; therefore, it shall be the developer's responsibility to provide the capacity for these stations in the new regional station. The Harford Estates pumping station is not needed for these parcels to subdivide, however, the new station shall be capable of handling the Harford Estates flows and the County will be responsible for funding the increase in size of the station to handle those flows.

Due to the location of the BCBSPS, it is intended that the developer of tax map 40 parcel 41, also known as the Blake property, will be responsible for the design and construction of the Bear Cabin Branch Sewage Pumping Station. The service area for the new regional sewage pumping station is shown in Exhibit A. Construction of the regional pumping station will also allow sewer service to be provided for the remaining un-served properties that are within the Bear Cabin Branch sewer shed as shown on the exhibit. These properties are highlighted in pink and brown on Exhibit A.

Purpose

The purpose of the Bear Cabin Branch Sewage Pumping Station Policy is to outline a scope of work for the project, to assign responsibility for each of the work items identified and to establish a recoupment amount for all new connections that will flow to the BCBSPS. The project consists of a new 3.4 mgd regional sewage pumping station, a 16 inch diameter force main and an 18 inch gravity sewer between the proposed pumping station and the existing

gravity sewer line near the intersection of Red Pump Road and Route 24. There is also approximately 1300 linear feet of 12 inch diameter gravity sewer which must be constructed parallel to an existing sewer near the southbound Route 24 ramp to the U.S. Route 1 Bypass. This 12 inch gravity sewer parallel is necessary to provide adequate sewer capacity for the remaining properties in the drainage area. It shall be designed and constructed by the developer of the Blake property. Harford County will not be responsible for any portion of the cost of the parallel sewer line.

It is also the intent of this policy to identify the responsible parties for the abandonment of the three existing pump stations. The developer of the properties identified as Area 1 on Exhibit A shall abandon the Parliament Ridge Sewage Pumping Station as part of the utility work for the development. The abandonment of the Cedarwood Sewage Pumping Station shall be performed by the developer of the properties identified as Area 2 on Exhibit A. Harford County will be responsible for the abandonment of the Harford Estates Pump Station.

Recoupment

The development that constructs the Bear Cabin Branch Sewage Pump Station is entitled to receive a recoupment. A recoupment is an amount of money paid per equivalent flow unit to a developer who constructs excess capacity, at the County request, in a facility for the express purpose of serving additional future customers beyond the developer's subdivision. Exhibit B shows the estimated cost of the project for the purpose of establishing the percentage breakdown of the costs between the County and the Developer. The methodology for calculating the recoupment amount is also shown in Exhibit B. The amount of contribution or recoupment available to reimburse the developer who constructs the required sewers is dependent upon the actual number of units connected. Properties shown in green, yellow or blue shall not pay the recoupment. Additionally, any lots created within Tax Map 40 Parcel 41 shall not pay the recoupment. Any other properties whose sewage will flow through the pumping station as well as those shown in brown shall pay the recoupment. Properties that are required to pay a recoupment shall pay the entire recoupment amount for all lots that are created in a lump sum payment prior to receiving operational approval of the utilities for their project. Lot by lot payment of the recoupment fees will not be allowed.

Each apartment, condominium and trailer/mobile home shall be considered as one equivalent flow unit for the purpose of paying the recoupments established by this policy. The term of the recoupment agreement shall be twenty (20) years from the date of execution of the Public Works Utility Agreement or until the recoupment from the applicable number of equivalent units for each section has been recovered and forwarded to the developer by Harford County, whichever is first.

The project costs, as shown on Exhibit B, are subject to a one time adjustment to account for the actual design and construction costs as specified in the County Contribution section. All costs for the pumping station and force main are to be kept separate and apart from any other work within the development. The County has the right to audit the Developer's, Engineer's and Contractor's

accounts for the pumping station and force main projects. All invoices concerning the pumping station and force main shall be certified by a Certified Public Accountant for accuracy. The final paid invoice shall be submitted to the County within 90 days of operational approval. The computation of the final amount of the project will be calculated at that time. After 90 days, no other costs or invoices will be paid by the County.

Special Requirements

Since the funding of this project will be partially provided by the Division of Water and Sewer, Harford County will write the Engineering Scope of Services and pre-qualify prospective engineers and construction contractors for the pumping station project prior to the solicitation of cost proposals from design engineers and construction bids from the contractors. Harford County and the developer of the Blake property will mutually agree on the final selection of the Design Engineer, Contractor and bid prices. A minimum of three quotes shall be obtained by the developer for the design and construction of the pumping station.

The developer of the Blake property shall design the sanitary sewers which serve the property in a manner that will allow the abandonment of the Harford Estates, Parliament Ridge and Cedarwood pumping stations. The Blake Property shall construct its gravity sewers to the closest point of all three existing sewer pump stations. This closest point must eliminate the need to construct sewer extensions within the lots of the Blake Property subdivision. A study shall be performed by the Developer's Engineer and provided to Harford County presenting the alignments of the sewers required to abandon the aforementioned pumping stations and verifying that the sewer depths are sufficient to allow their abandonment. The developer must then provide sufficient permanent easement along with a construction easement to the terminus of its property at the time of the recordation of the plat for the subdivision.

There is a section of dry sewer that crosses Red Pump Road in the vicinity of the Parliament Ridge Sewage Pumping Station. The sewers that serve the Blake Property shall be designed and constructed so that the connection to the dry sewer is completed with the development of the subdivision. Prior to beginning the design of the pumping station, the developer's engineer shall submit alternative pump station locations with cost estimates reflecting construction costs for review and approval by Harford County. This evaluation is necessary because of the existence of several possible pump station locations, some of which may substantially reduce or increase the construction costs. These costs shall reflect the necessary depth of gravity sewer, depth of the pumping station, and pumping station access. The final pumping station location, depth and cost estimate shall be acceptable to Harford County and the developer before proceeding with the design.

County Contributions

In addition to any recoupment collected, Harford County shall be responsible for reimbursing the developer who constructs the Bear Cabin Branch Sewage Pumping Station for the capacity that is being provided to allow the

abandonment of the Harford Estates Sewage Pumping Station. The Division of Water and Sewer will also be reimbursing the developer for 15.5% of the actual cost of the on-site 16-inch force main (Item 3 on Exhibit B) resulting from the addition of the Harford Estates Pumping Station drainage area flow. Additionally, the Division of Water and Sewer will reimburse the developer for the actual cost of the incremental difference of pipe material needed for the larger diameter sewer line through the Blake Property subdivision from the vicinity of the existing Harford Estates pumping station to the new Bear Cabin Branch pumping station. The developer shall have the contractor submit actual invoices from the sewer pipe supplier for the costs of an 8-inch sewer verses the size installed to determine the difference in material costs.

After the project has been completed and declared operational, the project costs for items 1, 3 and 4 shown in Exhibit B will be adjusted to reflect the actual design costs, the actual construction costs and actual inspection costs. The aforementioned cost items will be adjusted either upwards or downwards in accordance with cost affidavits supplied by the engineers and contractors. Harford County reimbursement to the developer is contingent on the approval of the Harford County Council for sufficient appropriation and funding authority. Harford County will request additional appropriation and funds during the Fiscal Year 2007-2008 budget sessions. If, after the project costs have been adjusted as noted above, and the adjusted County contribution exceeds the appropriations, additional appropriations will be requested for the following fiscal year budget with reimbursement following funding allocation.

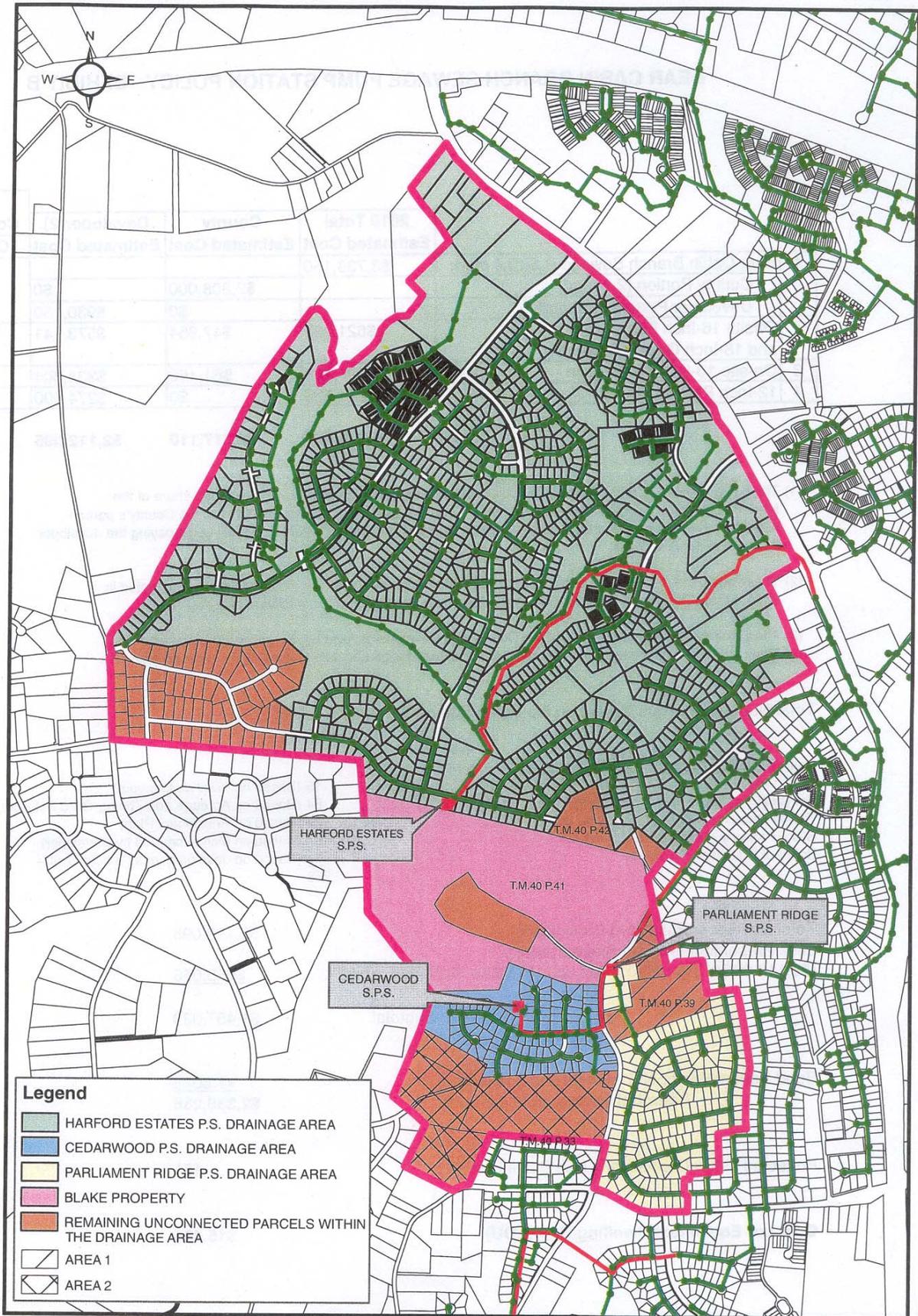
As the design and construction of the pump station progresses, the developer shall submit detailed invoices to the County for review and approval. The County shall be responsible for 75.1% of the cost of the design and construction of the pumping station (Item 1 on Exhibit B). Harford County will reimburse the developer for the County's responsible share of the costs minus the \$573,141 that the county has already expended on the developer's behalf for the construction of the 16 inch force main and 18 inch gravity sewer in Red Pump Road. Reimbursement of the developer will not occur until a Public Works Utility Agreement is fully executed and funding is approved by the Harford County Council.

The County has already funded and constructed an offsite 16 inch force main and an 18 inch gravity sewer for this project in advance of the Red Pump Road Improvement project. This part of the project was undertaken early to save money on the cost of construction work and to avoid costly repairs of the new road.

Timing/Permit Approvals

Since the development of any new subdivisions in Exhibit A are contingent upon the completion of the BCBSPS, additional units within the drainage area may not be permitted to connect into the Cedarwood or the Parliament Ridge sewage pumping stations. No undeveloped lots and/or parcels of property, or any on site sewer contracts shall be allowed to be declared operational, nor allowed to connect to a public sewer system until the BCBSPS has been declared operational. In addition, no building permits will be issued in the drainage area until the County is confident that the BCBSPS will become

operational within three (3) months of the request. Model homes may receive a building permit when, in the opinion of Harford County, the pump station is within five (5) months of becoming operational. In either case, all required bonds must be posted by the developer prior to the issuance of any building permits. Absolutely no occupancy permits will be issued until the station and all the gravity lines are operational, both to the station and downstream of the station. Pump outs will not be allowed.



**BEAR CABIN BRANCH SEWAGE PUMPING STATION SERVICE AREA
EXHIBIT "A"**

SEPTEMBER 27, 2006

BEAR CABIN BRANCH SEWAGE PUMP STATION POLICY - EXHIBIT B

ALL COSTS FINALED 11.1.12

		2010 2012 Total		County	Developer (2)	Percent Project Cost Responsibility (3)	
		Estimated Cost	Final Cost			Estimated Cost	Final Cost
1	Bear Cabin Branch Sewage P.S. (3.4 mgd)	\$2,728,150				75.1	24.9, plus \$13739 delay expense
		\$3,171,628					
	County Portion (2.4 mgd)			\$2,808,000			
				\$2,371,574	0		
	Developer Portion (1.0 mgd)			0	\$930,150		
				0	\$800,054		
2	Offsite 16-inch Force Main and 18-inch Gravity Sewer (1)	\$621,095		\$47,954	\$573,141	Fixed Costs	
3	On-site 16-inch Force Main	\$295,460		\$61,156	\$324,204	15.5	84.5
		\$208,634		\$32,338	\$176,296		
4	12-inch Parallel Sewer	\$274,500			\$274,500	0.0	100.0
		\$365,655		0	\$365,655		
Total		\$5,029,295		\$2,917,110	\$2,112,095		
FINALED 11.1.12		\$4,367,012		\$2,451,866	\$1,915,146		

(1) The costs for item 2 are fixed since the project has already been completed. The County's share of the invoices submitted from the developer for items 1 and 3 shall be waived until \$573,141 of the County's portion of the invoices has been accrued. After achieving this accrued amount, the County will begin paying the developer its share of items 1 and 3.

(2) These costs are not intended to include a section of dry gravity sewer that Harford County constructed in 2004, across Red Pump Road for the future abandonment of the Parliament Ridge pumping station

(3) The percentage cost share between the County and Developer is fixed by this policy. The costs for line items 1, 3 and 4 will be adjusted according to the actual design and construction costs of the project.

Total Number of Properties within the Pump Station Service Area ~~345~~ 366

Projected Likely Connections within 20 years

Red Pump Condominiums (Tax Map 40, Parcel 42)	15 (Based on townhouse layout)
Graybeal Property (Tax Map 40, Parcel 33)	84 (Based on Acreage and Zoning @ 3.5 DU/Acre)
Tucker Property (Tax Map 40, Parcel 39)	22 24 (Based on Preliminary Plan)
Blake Property (Tax Map 40, Parcel 41)	107 129 (Based on plan submitted by Developer)
Board of Education Properties	30 27 (Based on development as a school site)
	258 279

Total Developer Estimated Project Cost	\$2,112,095
Less Proportionate share Blake Property	\$1,915,146
(\$2,112,095 ÷ 345 units) x 107 units in Blake Property	\$655,056
(\$1,915,146 ÷ 366 units) x 129 units in Blake Property	\$675,010
Subtotal	\$1,457,039
Projection subtotal	\$1,240,136
Bond Variant Factor at 5% for 20 years (fixed)	x 1.6048
Potential Recoupable Amount	\$2,338,256
Final Potential Recoupable Amount	\$1,990,170
Projected Likely Connections less Blake Property	151
Projected Likely Connections less Blake Property	150
Cost per Equivalent Dwelling Unit (EDU)	\$15,435.00
FINAL Cost per Equivalent Dwelling Unit (EDU)	\$13,268

Present Worth Calculation for Graybeal Property

Original Estimated Payment	Upfront Cost	FINAL	Upfront Cost
Subtotal	\$1,457,039		Subtotal \$1,240,136
Projected Likely Connections less Blake Property			
Property	151		Projected Likely Connections less Blake Property 150
Present Worth Cost per Equivalent Dwelling Unit (EDU)	\$9,649		Present Worth Cost per Equivalent Dwelling Unit (EDU) \$8,268
Graybeal Property EDU	x 84		Graybeal Property EDU x 84
	\$810,516		\$649,512

53. West Aberdeen Water and Sewer Policy

- (Policy established 05/15/2008)
- It is the intent of this policy to notify potential developers in this area that they will be required to construct the regional water and sewer facilities.

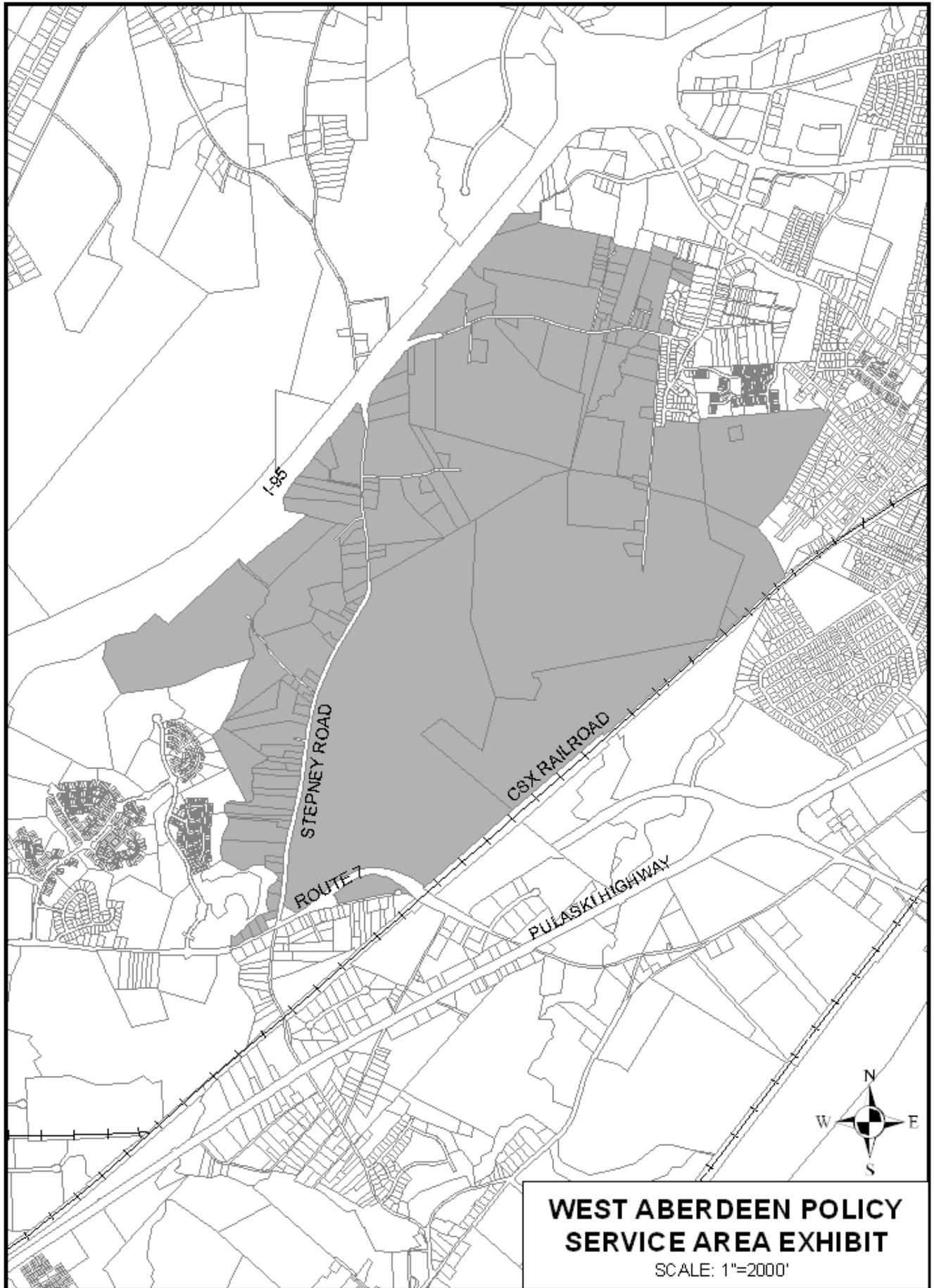
The West Aberdeen area of the county is generally bordered by Interstate 95, the City of Aberdeen, the CSX Railroad, Route 7 and the Hollywoods subdivision. It is shown on the exhibit following this page. The water and wastewater capacity for this area is planned into Abingdon Water Treatment Plant and the Sod Run Wastewater Treatment Plant. Sewage from this region will drain to the Gray's Run Collector Sewer which flows to the Church Creek Sewage Pumping Station. Harford County will be responsible for the upgrade of the Church Creek Sewage Pumping Station with funding in accordance with the policy which is already established in the Rules and Regulations of the Division of Water and Sewer.

The properties within the service area will be served by developer-constructed water and sewer facilities that must be designed to serve the entire service area. The general alignment of the sewer system is shown on the Service Area Map in the Harford County Water and Sewer Master Plan. A single sewage pumping station is planned to assist in providing sewer service to a portion of the area that cannot obtain gravity service otherwise. The size and final alignment of the sewer mains shall be reviewed and approved by the Division of Water and Sewer before any Preliminary Plans for development in the area may be approved.

Water service for the West Aberdeen area of the County will be provided by the Harford County water system. This area will be served by the county water system regardless of whether or not the properties are annexed into the City of Aberdeen. A portion of this region must be served by a regional water booster station with a hydro pneumatic tank. The remainder of the region shall have its water system configured so that redundant feed is provided into the region. Groups of more than 100 lots may not be created unless there is an acceptable plan to provide a redundant source of County water to the units.

Developers in this region will be required to construct the planned regional water and sewer facilities when they coincide with the facilities that are necessary to service their project. As plans are developed, Harford County will enter into recoupment/surcharge agreements with any developer who constructs a water or sewer facility that is larger than the minimum requirement to service only his development. These agreements will be adopted through modifications of these Rules and Regulations.

This policy is established in accordance with the Water and Sewer Master Plan. Any facility changes will also require revisions to the Master Plan.



54. Richardson's Legacy Phase 1 Sewer Recoupment Project 19542 (RL1)
- (PWUA date: 11/01/2010)
 - Term of the recoupment was established to be 20 years or until the project cost of \$491,568.00 as outlined in the Agreement has been recovered, whichever is first.
 - The Developer was required to design and construct a portion of the on-site and off-site sewer facilities at a larger size to serve as an outfall sewer for a future County owned sewage pumping station.
 - The recoupment charge to be paid by each user, excluding those units developed in the Richardson's Legacy development, who desires to be served shall be as follows:
 - A residential dwelling unit shall pay \$1,254.00 per unit
 - A nonresidential connection shall pay \$1,254.00 per number of sets of hook-up charges as calculated by Part 4 of the Rules & Regulations.
 - The recoupment charge shall be collected at the time all other hook-up charges are paid for eligible properties not requiring a Public Works Utility Agreement. Properties which require a Public Works Utility Agreement to develop will be required to pay the total recoupment amount in a lump sum prior to the issuance of the first building permit for all lots in an approved section or operational break

55. Ring Factory Sewage Pumping Station Policy- Projects 19250 and 19735 (RF1)
• (Policy established 03/28/2011)(amended 09/2016)

The purpose of this policy is to develop a plan and associated funding mechanisms to extend public sewer to an area southwest of the Town of Bel Air as shown in Exhibit A. The service area is within the boundary of the 2004 Land Use Plan and is anticipated to be served with public water and sewer facilities. The extension of public sewer consists of a new 1.3 mgd regional sewage pumping station and a 10 inch diameter force main that will discharge into a proposed 12 inch diameter gravity sewer in the Richardson's Legacy Subdivision.

The proposed pumping station will be constructed to serve the remaining properties within the service area and provide capacity for the eventual abandonment of the existing Fairwind Farms sewage pumping station by the County. In order to serve the entire service area with gravity sewer and only one sewage pumping station, the facility shall be located on Tax Map 56, parcel 294, also known as the Magness property. This pumping station will be designed and constructed concurrent with the first section of the subdivision of the Magness Property. Temporary sewage pumping stations or pressure sewers will not be allowed within the service area.

The developer that designs and constructs the Ring Factory Sewage Pumping Station is entitled to receive a recoupment in accordance with Chapter 256 of the Harford County Code. A recoupment is an amount of money paid per equivalent flow unit to a developer who constructs excess capacity, at the County's request, in a facility for the express purpose of serving additional future customers beyond the developer's subdivision. Exhibit B presents the estimated cost of the project for the purpose of establishing the percentage breakdown of the costs between the County and the Developer. The methodology for calculating the recoupment amount is also shown in Exhibit B. The amount of contribution or recoupment available to reimburse the developer who constructs the required facilities is dependent upon the actual number of units connected. Any property whose sewage will flow through the pumping station shall pay the recoupment. Any lots within the drainage area that obtain gravity sewer service without utilizing the pumping station shall not pay the recoupment charge. Additionally, lots created by the development associated with this project shall not pay the recoupment charge. Existing Harford County sewer customers shall not pay the recoupment. Any property that is subdivided is required to pay a recoupment and shall pay the entire recoupment amount for all lots that are created within the subdivision except for any lot that was an existing Harford County sewer customer prior to the subdivision. The payment shall be made in a lump sum prior to receiving operational approval of the first section of utilities for the project or prior to approval of the first building permit, whichever comes first. Lot by lot payment of the recoupment fees will not be allowed. All other connection fees shall be paid prior to approval of a building permit.

Each apartment, condominium and trailer/mobile home shall be considered as one equivalent flow unit for the purpose of paying the recoupment establish by this policy. The term of the recoupment agreement shall be twenty (20) years from the date of execution of the Public Works Utility Agreement or until the recoupment amount has been recovered and forwarded to the developer by Harford County, whichever is first.

The proposed force main is planned to connect to a gravity sewer that will be constructed as part of the Richardson's Legacy subdivision. A separate recoupment agreement has been created to allow the person who constructs the gravity sewer to recover a portion of the construction cost. In the event that the aforementioned

gravity sewer does not have a valid Public Works Utility Agreement for its construction, another party may design and construct the necessary gravity sewer in a configuration and location approved by the Division of Water and Sewer. The pumping station and force main will not be declared operational prior to the aforementioned gravity sewer being declared operational.

Subsequent to the adoption of the policy, the alignment of the force main was changed to accommodate the phasing of the development in which the station was being constructed. There is a separate recoupment for the outfall sewer to which the force main discharges. It is described in the Magness Overlook Offsite Gravity Sewer Recoupment policy.

The estimated project costs for the construction of the Ring Factory Sewage Pumping Station as shown on Exhibit B were subject to a one-time adjustment to account for the actual construction costs. After the project was completed and declared operational, the estimated project costs were adjusted to reflect the actual construction costs. Cost affidavits were supplied by the engineers and contractors for the aforementioned work items. The affidavits were submitted to the County by the developer within 90 days of operational approval. These documents were reviewed by the County and approved. The project cost was adjusted upwards as a result of the actual construction costs and the cost per equivalent dwelling unit was adjusted accordingly. No adjustments shall be made for any lots which have already paid the recoupment. The final project costs and recoupment calculations are shown on Exhibit C.

In addition to any recoupment collected, Harford County shall be responsible for reimbursing the developer who constructs the Ring Factory Sewage Pumping Station and force main for the capacity that is being provided to allow the abandonment of the Fairwind Farms Sewage Pumping Station. The percentage of the County's reimbursement is established by this policy. It is calculated in Exhibit B. The actual amount of the County's contribution was determined after the final project costs were calculated. Payment by the County to the Developer may only occur after a Public Works Utility Agreement is executed for the Fairwind Farms Sewage Pumping Station Bypass Sewer, the construction contract is signed and a performance bond is posted for the work. Harford County's reimbursement to the developer is contingent on the approval of the Harford County Council for sufficient appropriation and funding authority.

No undeveloped lots and/or parcels of property, or any on site sewer contracts whose sewage will flow into the Ring Factory Sewage Pumping Station shall be allowed to be declared operational or allowed to connect to a public sewer system until the subject pumping station has been declared operational. In addition, no building permits will be issued in the drainage area until the County is confident that the Ring Factory Sewage Pumping Station, its force main and the off-site gravity sewer will become operational within three (3) months of the request. Model homes may receive a building permit when, in the opinion of Harford County, the pump station is within five (5) months of becoming operational. In either case, all required bonds must be posted by the developer prior to the issuance of any building permits. Absolutely no occupancy permits will be issued until the station and all the gravity lines are operational, both to the station and downstream of the station. Pump outs will not be allowed.

**Ring Factory Sewage Pumping Station Service Area
Exhibit "A" – Sheet 2 of 2**

<u>Parcel No.</u>	<u>Name</u>	<u>Acreage</u>	<u>Zoning</u>	<u>Eq. Units</u>
710 lot			R1	1
710 lot 5A			R1	1
710 lot 4			R1	1
710 lot 3			R1	1
710 lot 2			R1	1
710 lot 1			R1	1
22	Appletree Orchard	24.18	R1	*32
3 lot1	Padgett Property	1.28	R1	2
3 lot 2	Marshall Property	3.82	R1	4
257			R1	1
162	Morse Property	4.26	R1	3
(4,8,294 526,594,604)	Magness Exemption (Magness Overlook and Magness Farms)	124.7	R1 & R2	*301
207	O'Connell Property (TWS Tollgate)	7.38	R2	*21
345			R1	1
163			R1	1
348			R1	1
316			R1	1
333			R1	1
472 lots 1-13	Multiple Lots in Camelot		R1	13
473 lots 27-36	Multiple Lots in Camelot		R1	10
58 and p/o 264	O'Connell Property (Somerset Hill)	12.5	R1	*33
p/o 9	Crocker Property	2.57	R1	4
155			R1	1
154			R1	1
150			R1	1
153			R1	1
199	Frey Property	3.8	R1	2
151	Klein Property	6.7	R1	4
221	Rogers Property	4.17	R1	2
306	Gingher Property	3.42	R1	2
149	Mills Property	3.18	R1	3
p/o 295	Magness Property (Kathleen)	40	R1	72
Total Unserved Units in the Drainage Area				524
*Projected Connections in 20 Years				387

Note: This sheet is from the original policy and is provided for reference purposes. It was unchanged after construction.

**Ring Factory Sewage Pumping Station and Force Main
Estimated Project Costs
Exhibit "B" – Sheet 1 of 2**

Cost Estimate For Pumping Station Without Fairwind Farms Flows

Use Cokesbury Manor P.S. prices including 1235' of 6" f.m. costs from 2003 inflated to 2010 (4.16% for 7 years) plus 2115' of additional f.m. at \$61.87/ft. and an Air Release Valve (ARV).

$\$500,226 \times 1.33$ (infl. factor) = \$665,301 $\$61.87 \times 2115'$ = \$130,855 \$10,000 for ARV

Inflate total to year 2015 (3% for 5 years) = $\$665,301 + \$130,855 + \$10,000 =$
 $\$806,156 \times 1.159 =$ **\$934,335**

Cost Estimate For Pumping Station With Fairwind Farms Flows

Use Reckord Road P.S. prices from 1997 inflated to 2010 using ENR Construction Cost Index (3.3% for 13 years) and add 3350' of 10" f.m. and ARV costs.

$\$641,642 \times 1.526$ (infl. factor) = \$979,146 $\$80.00 \times 3350'$ = \$268,000 \$10,000 for ARV

Inflate total to year 2015 (3% for 5 years) = $\$979,146 + \$268,000 + \$10,000 =$
 $\$1,257,146 \times 1.159 =$ **\$1,457,032**

Note: This sheet is from the original policy and is provided for reference purposes. It was unchanged after construction.

**Ring Factory Regional Sewage Pumping Station and Force Main
Estimated Project Costs
Exhibit "B"– Sheet 2 of 2**

<u>Task</u>	<u>Units</u>	<u>Qty</u>	<u>Unit Price</u>	<u>Cost</u>
1.3 mgd Sewage Pumping Station (includes flow from Fairwind Farms SPS)				\$ 979,146.00
Force Main (10" Dia.)	LF	3350	\$ 80.00	\$ 268,000.00
Air Release Valve and Vault	EA	1	\$ 10,000.00	\$ 10,000.00
			Total Project Cost	\$1,257,146.00

Inflate Costs to 2015 (3% for 5 years) x1.159

Total Future Project Cost = \$1,457,032.00

0.657 mgd Sewage Pumping Station including 1235' of 6" dia. Force main (excludes flow from Fairwind Farms SPS)				\$ 665,301.00
Force Main (6" Dia.)	LF	2115	\$ 61.87	\$ 130,855.00
Air Release Valve & Vault	EA	1	\$ 10,000.00	\$ 10,000.00
			Total Project Cost	\$ 806,159.00

Inflate Costs to 2015 (3% for 5 years) x1.159

Total Future Project Cost = \$934,335.00

Estimated county cost equals difference in cost between the two projects

\$1,457,032.00 - \$934,335.00 = \$522,697.00

Therefore the County percentage of cost = **\$522,697 ÷ \$1,457,032 = 35.9%**

Estimated Cost Per Equivalent Dwelling Unit

Projected Connections in 20 Years = 392

Cost Per Equivalent Dwelling Unit = \$934,335 / 392 = \$2383.51

Magness Property Developer Cost Responsibility = \$2384 x 300 =

Potential Recoupable Cost from Other Properties Served = \$2384 x 92 =

Say \$2384

\$715,200.00

\$219,328.00

Note: The costs on this sheet are subject to change in accordance with the policy.

**Ring Factory Sewage Pumping Station and Force Main
Final Project Costs and Recoupment Calculation
Exhibit "C"**

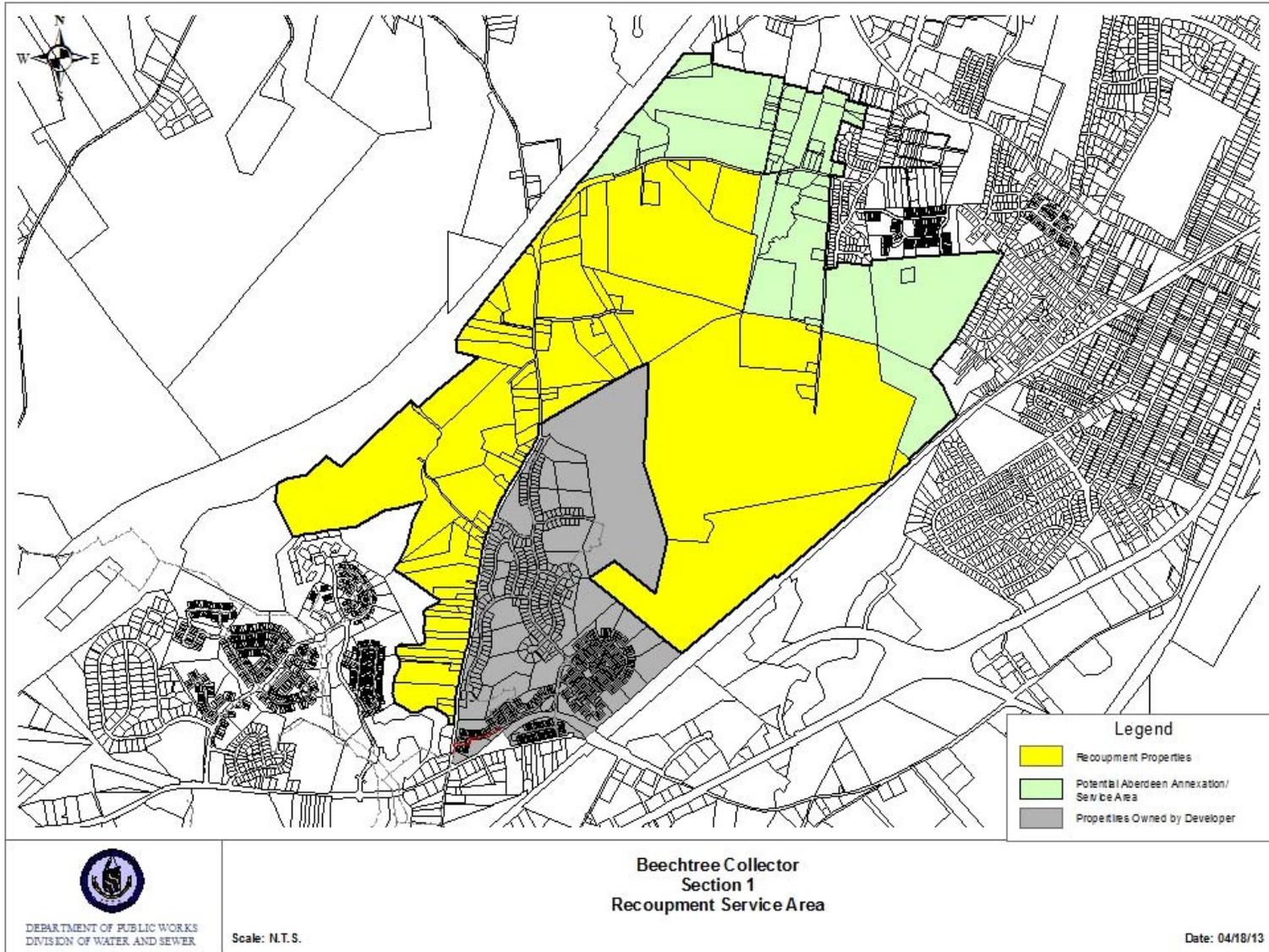
Final Recoupable Cost of the Ring Factory Sewage Pumping Station and Force Main Contracts 19250 and 19735 =	\$3,160,457 ¹
Final Costs Eligible for County Reimbursement =	\$3,058,708 ²
County Portion of the Project Cost (35.9% of the eligible project cost) =	-\$1,098,076

Calculation of Cost per Equivalent Dwelling Unit

Recoupable Project Costs including the Developer's Share =	\$2,062,381
Projected connections in 20 years including the Developers =	387
Cost per Equivalent Dwelling Unit = \$2,062,381 / 387 = \$5,329.15	Say \$5,329
Magness Property Developer Cost Responsibility = \$5,329 x 301 =	\$1,604,029
Potential Recoupable Cost to be paid by Other Properties Served =	\$2,062,381 - \$1,604,029 = \$458,352

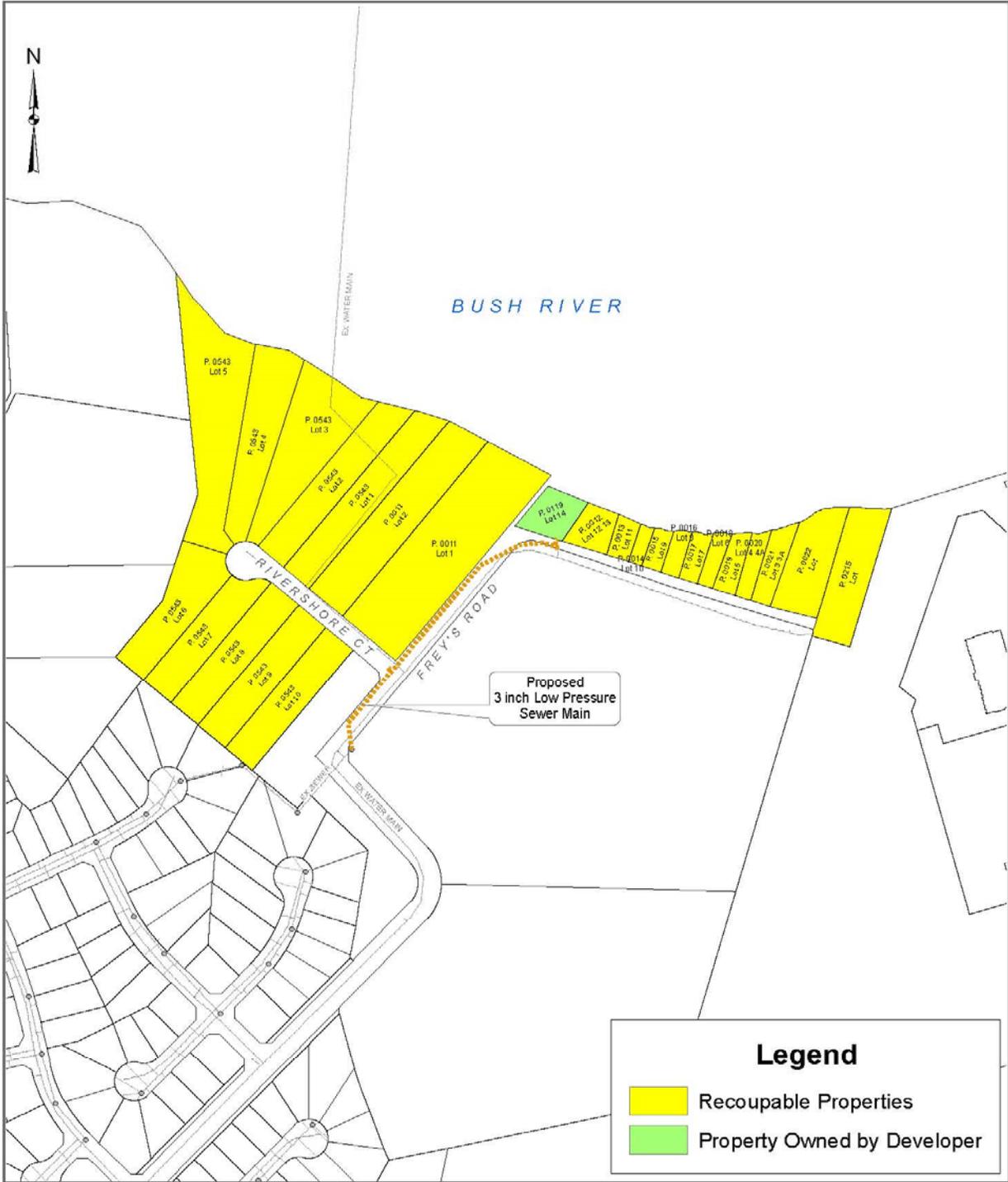
- Notes: 1. See the final cost summary in the project file for additional information.*
- 2. The difference between \$3,160,457 and \$3,058,708 are costs that are not reimbursable by the County, but are included in the recoupment calculation and may be recouped by the Developer. The costs are for the offsite gravity sewer in Contract 19735 and are described in the Magness Overlook Gravity Sewer Recoupment-(MO1).*

56. Beechtree Collector Sewer Section 1 Recoupment 19635 (BE1)
- (PWUA date: 06/08/2010; Amended 04/03/12)
 - Term of the recoupment was established to be 20 years or until the project cost of \$64,245.00 as outlined in the amended Agreement has been recovered, whichever is first. The cost is fixed by the amended Agreement.
 - The Developer was required to design and construct a portion of the on-site gravity sewer mains at a larger size as required by the County.
 - The recoupment charge to be paid by each user, excluding properties in the Beechtree Estates subdivision regardless of ownership at the time of connection, who desires to be served shall be as follows:
 - A residential dwelling unit shall pay \$92.00 per unit
 - A nonresidential connection shall pay \$92.00 per number of sets of hook-up charges as calculated by PART 5 of the Rules & Regulations.
 - The recoupment charge shall be collected at the time all other hook-up charges are paid for eligible properties as shown on the following exhibit. Properties which require Public Works Utility Agreements to develop will be required to pay the total recoupment amount for the development in a lump sum prior to issuance of the first building permit of that development.



57. Frey's Road Low Pressure Sewer Recoupment Project 19645 (FR1)

- (PWUA date: 04/12/2012)
- Term of the recoupment was established to be 20 years or until the project cost of \$51,116.00 as outlined in the Agreement has been recovered, whichever is first.
- The Developer was required to design and construct a low pressure sewer main at a larger size as required by the County.
- The recoupment charge to be paid by each user, excluding the property owned by the Developer, who desires to be served shall be as follows:
 - A residential dwelling unit shall pay \$3,932.00 per unit
 - A nonresidential connection shall pay \$3,932.00 per number of sets of hook-up charges as calculated by PART 5 of the Rules & Regulations.
- The recoupment charge shall be collected at the time all other hook-up charges are paid for eligible properties as shown on the following Exhibit A from the Agreement.
- Within thirty (30) days of project completion, the Developer shall submit calculations of all funds expended for the County's review. The County will adjust the per unit cost based upon the cost review. Total project cost may not exceed the estimated cost by more than ten percent (10%).



Legend

- Recoupable Properties
- Property Owned by Developer



DEPARTMENT OF PUBLIC WORKS
DIVISION OF WATER AND SEWER

EXHIBIT "A"
Frey's Road
Low Pressure Sewer
Sewer Contract No. 19645

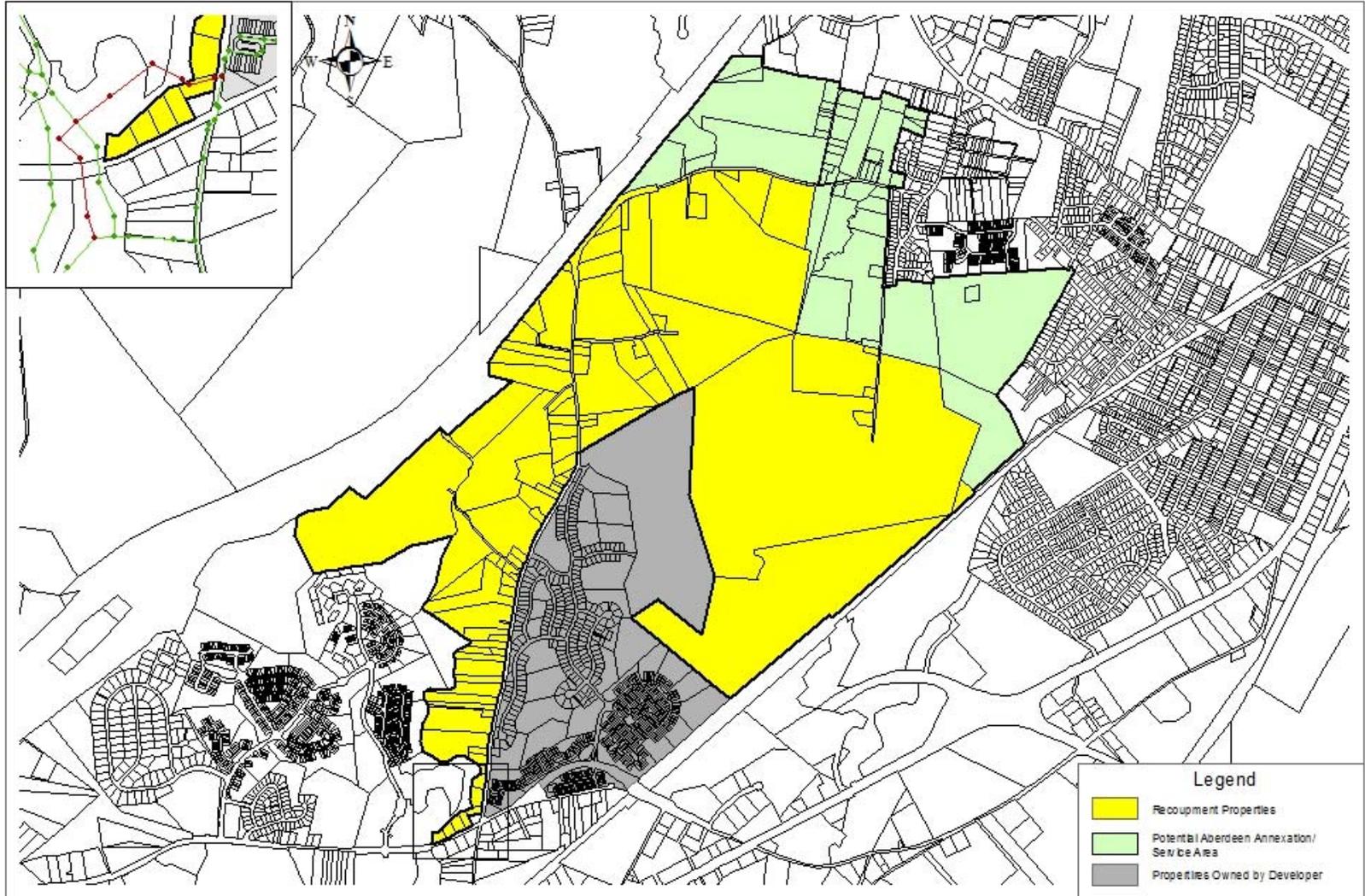
Scale: N.T.S.

Print Date: 10/6/2011

File: E19645

58. West Aberdeen Interceptor Sewer Recoupment Project 19001 (WA4)

- (PWUA date: 04/26/2012)
- Term of the recoupment was established to be 20 years or until the project cost of \$445,891.00 as outlined in the Agreement has been recovered, whichever is first. The cost is fixed by the Agreement.
- The Developer is required to design and construct an interceptor sewer in accordance with the West Aberdeen Interceptor Sewer Policy. The construction is required prior to the issuance of the (243rd) building permit within the Beechtree development.
- The recoupment charge to be paid by each user, excluding those units developed in the Beechtree subdivision, who desires to be served shall be as follows:
 - A residential dwelling unit shall pay \$640.00 per unit
 - A nonresidential connection shall pay \$640.00 per number of sets of hook-up charges as calculated by PART 5 of the Rules & Regulations.
- The recoupment charge shall be collected at the time all other hook-up charges are paid for eligible properties not requiring a Public Works Utility Agreement as shown on the following exhibit. Properties which require Public Works Utility Agreements to develop will be required to pay the total recoupment amount for the development in a lump sum prior to issuance of the first building permit of that development.



Scale: N.T.S.

West Aberdeen Interceptor Sewer Recoupment Service Area

Legend	
	Recoupment Properties
	Potential Aberdeen Annexation/ Service Area
	Properties Owned by Developer

Date: 04/18/13

59. Bynum Ridge Collector Sewer Policy (BRC1, BRC2)
- (Policy established 11/15/2013, amended 5/24/2017, amended 7/15/2019)

This policy was originally established on November 15, 2013 to address inadequate capacity in the Bynum Ridge Collector Sewer. Initially the project was to be constructed in two phases; however during the design of the project, the County decided that it would be best to construct the sewer as a single phase to minimize the disruption of the community. To facilitate this change, Harford County negotiated with the Developer to construct Phase Two concurrent with Phase One. The County will reimburse the Developer for one hundred percent of Phase Two. The recoupable portion of Phase Two will be returned to the County as a surcharge. This policy also establishes the surcharge.

Analysis of the drainage area that is served by the Bynum Ridge Collector Sewer has revealed that the remaining undeveloped or underdeveloped properties which will generate sewage and flow through the collector sewer will cause a portion of the collector sewer to be over its rated capacity. It has been determined that the most feasible alternative for providing additional capacity is to construct a replacement sewer to serve those properties whose sewage will flow through the collector sewer. The purpose of this policy is to identify the extent of the improvements and to determine the costs associated with the improvements and the method of recovering the costs.

The existing collector sewer that is projected to be over capacity is shown on Harford County Sewer Contract 6010. It consists of the first six runs of sewer which are located at the rear of lots 13 through 33 in the Bynum Ridge subdivision. Approximately 1,630 feet of existing 12-inch diameter sewer through the Bynum Ridge subdivision will be replaced with 15-inch diameter sewer. Exhibit "A" shows the location of the existing sewers which must be replaced. Exhibit "B" identifies the projected limits of the recoupment area for this policy. The properties in this area were evaluated for future development potential for the purpose of determining a recoupment amount.

The replacement sewer project will be broken down into two phases for the purpose of establishing the cost responsibilities for the Developer and Harford County. The design for the entire project will be performed as part of Phase One. The revised record plats containing the new easements required for both phases will also be prepared as part of Phase One. The replacement sewer in Phase One is anticipated to provide for an additional twenty years of growth in the drainage area. It will consist of approximately 835 feet of 15" diameter main. The surcharge/recoupment amount is calculated in Exhibit C. Phase Two consists of approximately 795 feet of 15" diameter main.

The existing sewer line was constructed of vitrified clay pipe in 1967. The expected useful life of this type of pipe is one hundred years. Video assessment of the pipe has shown that accelerated pipe decay has reduced the life of the pipe to eighty years. Due to the unforeseen pipe decay, the County is willing to contribute towards the replacement cost of a sewer line the same size in an amount proportionate to the life of the sewer that has been expended. This percentage has been estimated at 60%. The estimated project costs and development of the associated surcharge/recoupment for both phases is presented in Exhibit "C". The

remaining 40% of the cost in Phase One shall be borne by a developer within the collector sewer service area. A portion of the private share of the costs shall be recoupable as detailed elsewhere in this policy. The remaining 40% share of the cost in Phase Two shall be recoupable by the County as a surcharge to the connection charges.

Drainage and Utility and Access easements are critical to this project moving forward. Construction drawings and record plats may not be approved until the appropriate easements have been obtained. The County will assist the developer who constructs the replacement sewer by contacting affected property owners to obtain any easements necessary to complete the project. The developer who designs the sewer shall identify the location of said easements and prepare the necessary documents. The County will not be held liable for the timeliness or inability to obtain the easements.

The developer that constructs the replacement sewer shall solicit a minimum of three (3) bids using an approved Harford County bid form for the Bynum Ridge Collector Sewer Replacement. The bids must be based on approved contract drawings and specifications which must be prepared by the developer desiring to perform the work. All bids must be submitted to Harford County in the original sealed envelope from the contractors. Bids shall be solicited only from contractors who have been approved by the Harford County Division of Water and Sewer to perform the work. Any subcontractor to the contractor involved in the construction must also be approved by the County. The lowest responsive and responsible contractor shall be agreed upon by all parties. The contractor may not assign the contract or subcontract the work in an amount greater than fifty percent of the project. A performance bond shall be required for the developer's portion of the project prior to beginning work on Phase One.

It is the purpose of this policy to have the undeveloped and underdeveloped properties whose sewage will flow through the portion of the collector sewer that is shown on Exhibit "A" contribute their proportionate share of the project costs based upon the number of equivalent dwelling units generated by the development of the properties. The developer that designs and constructs the Bynum Ridge Collector Sewer Replacement is entitled to receive a recoupment for Phase One in accordance with Chapter 256 of the Harford County Code. A recoupment is an amount of money per equivalent dwelling unit collected by the County and subsequently paid to the developer who constructs excess capacity, with the County's approval, in a facility for the express purpose of serving additional future customers beyond the developer's subdivision. Each apartment, condominium and trailer/mobile home shall be considered as one equivalent dwelling unit for the purpose of paying the recoupment/surcharge established by this policy.

Likewise, Harford County will collect a surcharge to recover a portion of the costs associated with the construction of Phase Two. The term of the recoupment agreement for Phase One shall be twenty (20) years from the date of the execution of a Public Works Utility Agreement for the work or until the recoupment amount has been recovered and forwarded to the developer by Harford County, whichever is first. The recoupment charge and the County surcharge instituted by this policy shall be collected at the time that all other hook-up charges are paid.

The developer must own property within the collector sewer drainage area. The developer may be a Limited Liability Company (LLC). The members of any LLC that constructs the sewer must own property in the sewer service area. Lots created by the developer who constructs Phase One of the replacement sewer shall not pay the recoupment charge. Since the County is reimbursing the developer for the entire cost of Phase Two, the Development shall be responsible for paying the surcharge for Phase Two. The property(ies) owned by the developer shall be identified in the Public Works Utility Agreement that will be executed to construct the replacement sewer. The amount of recoupment available to reimburse the developer who constructs the required facilities is dependent upon the actual number of units connected. Any lots within the drainage area that connect to the sewer system via gravity sewer service without utilizing the sewers constructed as a result of this policy shall not pay the recoupment charge. Additionally, existing Harford County sewer customers shall not pay the recoupment unless their property is further developed or additional fixture units are added, requiring additional hook-up charges to be assessed.

The estimated construction costs for the construction of both phases of the Bynum Ridge Collector Sewer as shown on Exhibit "C" are subject to a one-time adjustment to account for the actual construction costs. After the project has been completed and declared operational, the estimated itemized costs will be adjusted to reflect the actual construction costs. Cost affidavits based on the bid form shall be supplied by the developer that builds the sewer line for the costs related to construction. The affidavits shall be submitted to the County by the developer within 60 days of operational approval. These documents will be reviewed by the County and when approved, the project cost will be adjusted either upwards or downwards. The cost per equivalent dwelling unit will be adjusted accordingly. No adjustments shall be made for any properties which have already paid the recoupment.

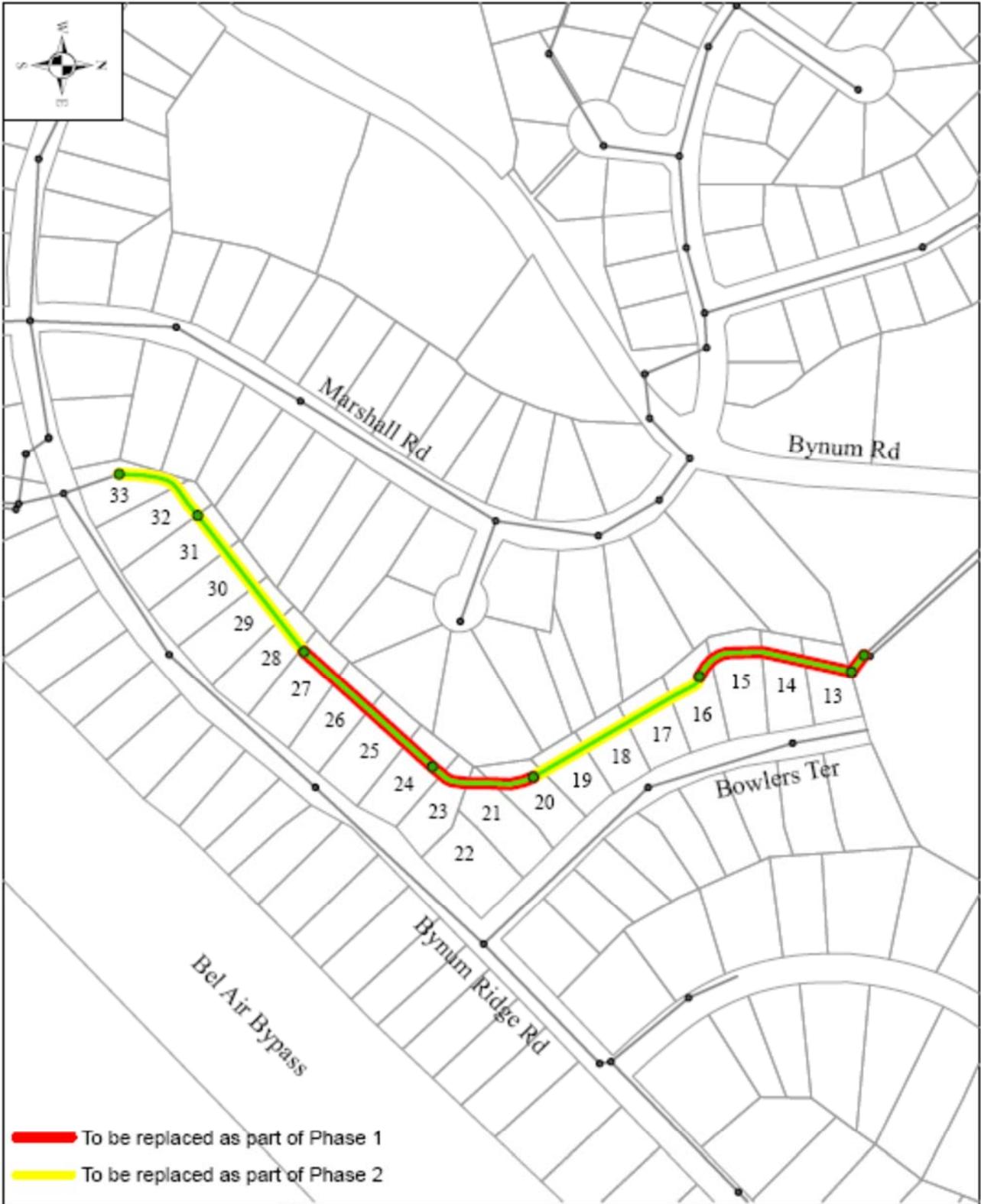
In addition to any recoupment collected, Harford County shall be responsible for reimbursing the developer who constructs the Bynum Ridge Collector Sewer Replacement for 60% of certain portions of the Phase One project costs. The County is also responsible for reimbursing the developer for 100% of the Phase Two project costs expended by the developer. The percentage of the County's reimbursement is established by this policy. Exhibit "C" presents the estimated cost of the project for the purpose of determining the methodology for calculating the County's share of the project as well as the recoupment/surcharge amounts per equivalent unit.

The actual amount of the County's contribution will be determined after the final project cost has been calculated. Payment by the County to the entity may only occur after the replacement sewer has been constructed and declared operational by the County. Harford County's reimbursement to the developer is contingent upon compliance with all laws governing the Harford County Department of Procurement and Treasury as well as the approval of the Harford County Council for sufficient appropriation and funding authority. If County funding for Phase Two is not available, then the Developer may proceed with only the construction of Phase One.

No undeveloped lots and/or parcels of property, or any public sewer contracts

whose sewage will flow through the Bynum Ridge Collector Sewer Replacement shall be allowed to be declared operational or allowed to connect to a public sewer system until the subject sewer line has been declared operational.

Building permits will only be issued in the drainage area after the County is confident that the Bynum Ridge Collector Sewer Replacement is actively under construction and will become operational within one hundred twenty (120) days of the building permit approval unless the peak discharge rate from the property is not increased from current levels. Connection permits can be issued after the replacement sewer has been made operational. Pump outs will not be allowed.



█ To be replaced as part of Phase 1
█ To be replaced as part of Phase 2

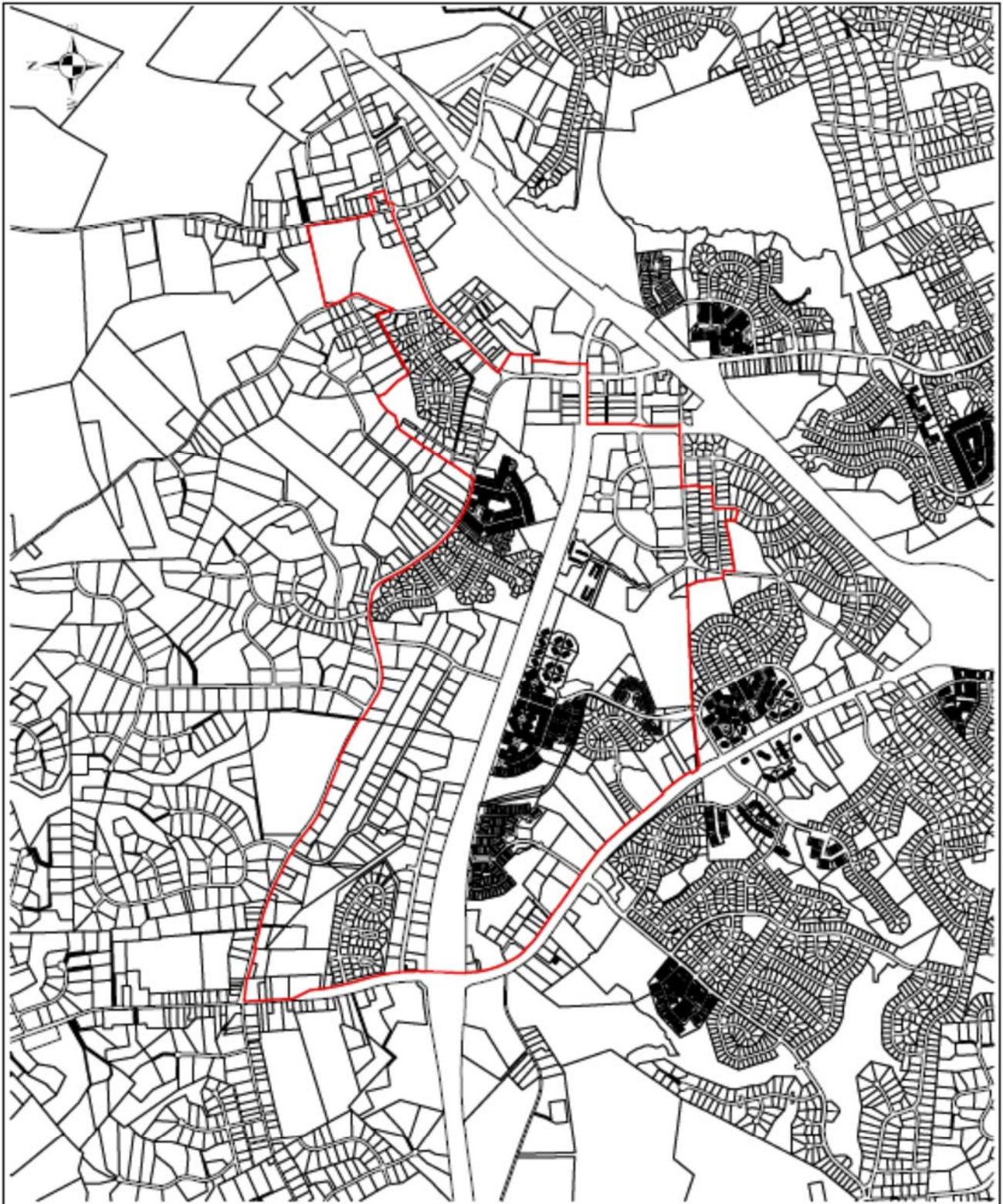


DEPARTMENT OF PUBLIC WORKS
 DIVISION OF WATER AND SEWER

EXHIBIT "A"

Bynum Ridge Collector Sewer Replacement

Scale: N.T.S. Print Date: 07/29/13



DEPARTMENT OF PUBLIC WORKS
DIVISION OF WATER AND SEWER

EXHIBIT "B"

**Recoupment Service Area Map of the
Bynum Ridge Collector Sewer**

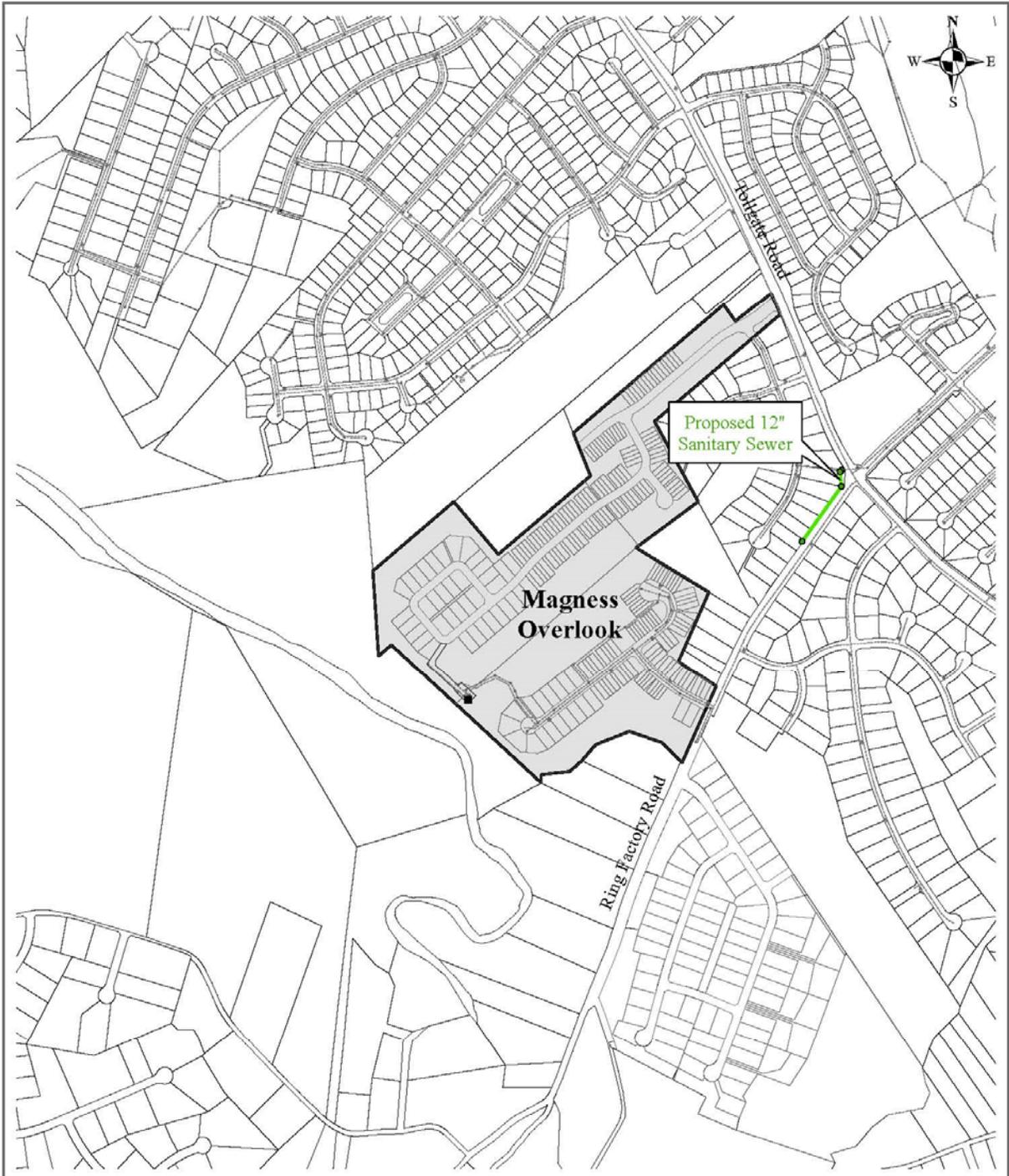
Scale: 1" = 2000'

Print Date: 02/07/13

Recoupment Calculations for the Bynum					
Ridge Sewer Replacement (Ph 1)					
Exhibit "C"					
Description	Unit	Unit Cost	Quantity	Estimated Cost	Final Cost
Design and Engineer Services	LS	\$37,919.46	1	\$50,000.00	\$37,919.46
Engineer Post Bid Services		\$12,457.10	51.2%		\$6,378.04
Esmnt. Payments & Supplemental Agreement made by the County	LS	\$5,614.00	10	\$4,399.00	\$5,614.00
Supplemental Agreements by Dev.	LS	\$69,700.00	10	\$21,350.00	\$69,700.00
15" Sewer Replacement *	LS	\$494,851.00	51.2%	\$275,118.08	\$253,363.71
Lawn Restoration	LS	\$6,282.00	70%		\$4,397.40
Credit to Decrease Pipe size from 15" to 12" *	LS	-\$6,800.00	51.2%	-\$2,892.80	-\$3,481.60
Subtotal				\$347,974.28	\$373,891.01
Contingency		\$31,357.99	51.2%	\$69,594.86	\$16,055.29
Construction SubTotal				\$417,569.14	\$389,946.30
Maintenance Bond		not req'd	2.5%	\$10,439.23	\$0.00
Harford County Inspections		\$25,519.00	51.2%	\$27,141.99	\$13,065.73
Soils Inspections		\$13,384.13	51.2%		\$6,852.67
NPDES Monitoring		\$8,301.70	51.2%		\$4,250.47
MDE Permit		\$103.00	51.2%		\$52.74
Project Cost for 12" Replacement Sewer				\$455,150.36	\$414,167.91
County's Contribution**			60.0%	\$273,090.22	\$248,500.74
Developer's Share of 12" Sewer Construction			40.0%	\$186,235.84	\$165,667.16
Cost to Increase Sewer from 12" to 15"		\$6,800.00	51.2%	\$2,892.80	\$3,481.60
Subtotal of Developer's Costs				\$189,128.64	\$169,148.76
Performance Bond		\$3,964.00		\$4,728.22	\$3,964.00
Developers Contribution				\$193,856.86	\$173,112.76
Projected EDU's Remaining			420		
Anticipated connections in 20 years			115		
Cost per EDU				\$1,685.71	\$1,505.33
Recoupment Amout Per EDU			Use	\$1,686.00	\$1,505.00
Developer's Proportionate Share of the Cost = 25 EDU's x \$1505.00 =				\$42,150.00	\$37,625.00
Total Amount of Developer's Recoupment= Remaining EDU's (90) x \$1505.00 =				\$151,740.00	\$135,450.00
* 51.2% is the percentage of the length of Phase One to the overall project based upon the pipe lengths described in the policy					
** Does not include cost to upsize sewer					
					7/9/2019

Surcharge Calculations for the Bynum					
Ridge Sewer Replacement (Ph 2)					
Exhibit "C"					
Description	Unit	Unit Cost	Quantity	Estimated Cost	Final Cost
Engineer Post Bid Services	LS	\$12,457.10	48.8%		\$6,079.06
Easement Direct Payments	LS		9	\$3,057.00	\$3,021.00
Supplemental Agreements	LS	\$88,800.00	9	\$37,400.00	\$88,800.00
15" Sewer Replacement *	LS	\$494,851.00	48.8%	\$262,221.92	\$241,487.29
Lawn Restoration	LS	\$6,282.00	30.0%		\$1,884.60
PODS Containers	LS	\$2,154.00			\$2,154.00
Credit to Decrease Pipe size from 15" to 12" *	LS	-\$6,800.00	48.8%	-\$2,757.20	-\$3,318.40
Subtotal				\$299,921.72	\$340,107.55
Contingency		\$31,357.99	48.8%	\$59,984.34	\$15,302.70
Rock		\$6,855.00			\$6,855.00
Construction Total				\$359,906.06	\$362,265.25
Maintenance Bond		not req'd	2.5%	\$8,997.65	\$0.00
Harford County Inspections		\$25,519.00	48.8%	\$23,393.89	\$12,453.27
Soils Inspections		\$13,384.13	48.8%		\$6,531.46
NPDES Monitoring		\$8,301.70	48.8%		\$4,051.23
MDE Permit		\$103.00	48.8%		\$50.26
Project Cost for 12" Replacement Sewer				\$392,297.60	\$385,351.47
County's Contribution**			60.0%	\$235,378.56	\$231,210.88
County's Recoupable Share of 12" Sewer Construction			40.0%	\$156,919.04	\$154,140.59
Cost to Increase Sewer from 12" to 15"		\$6,800.00	48.8%	\$2,757.20	\$3,318.40
Total Amount of County Surcharge				\$159,676.24	\$157,458.99
Projected EDU's Remaining			420		
Anticipated connections in 40 years			230		
Cost per EDU				\$694.24	\$684.60
County Surcharge Per EDU			Use	\$694.00	\$685.00
* 48.8% is the percentage of the length of Phase Two to the overall project based upon the pipe lengths described in the policy					
** Does not include cost to upsize sewer					
					7/9/2019

60. Magness Overlook Offsite Gravity Sewer Recoupment (MO1)
- Contract No. 19735 (PWUA date: 11/15/2014, amended 02/26/2015, amended 11/28/2016)
 - Exhibit “A” shows the location of the sewer main subject to the recoupment.
 - The term of the recoupment was established to be 20 years or until the recoupable portion of the project cost of \$41,427 as shown on Exhibit “B” has been recovered, whichever is first.
 - The Developer was required to construct an off-site gravity sewer to which the force main discharges at a larger size to serve as an outfall sewer for the Ring Factory Sewage Pumping Station.
 - The recoupment charge to be paid by each user, excluding those properties that are already Harford County sewer customers and those units developed in the Magness Overlook or Magness Farms development, who desires to be served shall be as follows:
 - A residential dwelling unit shall pay \$482.00 per unit
 - A nonresidential connection shall pay \$482.00 per number of sets of hook-up charges as calculated by PART 4 of the Rules & Regulations.
 - The recoupment charge shall be collected at the time all other hook-up charges are paid.



DEPARTMENT OF PUBLIC WORKS
DIVISION OF WATER AND SEWER

EXHIBIT "A"

**Magness Overlook Off-site Gravity Sewer Main
Contract No. 19735**

Scale: N.T.S.

Print Date: 05/05/16

**Magness Overlook
 Offsite Gravity Sewer Main Recoupment (MO1)
 Contract No. 19735
 Exhibit "B"**

Easement Acquisition	\$37,368
Rock Excavation in Gravity Sewer Trench	\$48,365
Swap Unsuitable w/Suitable Material in Gravity Sewer Trench	\$39,973
Gravity Sewer Mains from Force Main to Existing Sewer Manhole (12"-502 LF)	\$94,878
48" Manhole (11 VLF)	\$ 2,728
60" Manhole (68 VLF)	\$20,808
Tie into Existing Sewer	\$40,336
Test Pits	\$ 1,475
Traffic Control	\$ 2,925
Sediment Control and Restoration	\$ 2,110
Total Construction Cost	\$290,966
 County Reimbursement (35.9% of Total Construction Cost)	 \$104,457
Recoupable Construction Cost Including Developer's Share	\$186,509

Summary of Lots to Connect in Twenty Years

Magness Farms and Magness Overlook	301
Apple Tree Orchard	32
TWS Tollgate	21
Somerset Hill	<u>33</u>
	387

Estimated Cost Per Equivalent Dwelling Unit

Projected Connections in 20 years (including the Developer's 301 lots in Magness Farms and Magness Overlook) =	387
Cost Per Equivalent Dwelling Unit = \$186,509 ÷ 387 = \$481.94	Say \$482.00
Magness Property Developer Cost Responsibility = \$482 x 301 =	\$145,082
 Potential Recoupable Amount to be paid by Other Properties Served =	
\$186,509 - \$145,082 =	\$41,427

61. Hickory Area Collector Sewer Policy (HAC1)

- (Policy established 8/29/2018, amended 9/19/2019, amended 2/25/2020)

The sewer mains that are now identified as the Hickory Area Collector Sewer were originally constructed during the development of various subdivisions as growth occurred in the drainage basin. As such, the collector sewer consists of multiple Harford County sewer contracts. The collector sewer begins at the Bynum Run Interceptor at Southampton Road and continues in a northward direction through the Hampton Ridge, Vineyard Oaks and Wyndemede subdivisions. The sewer terminates in Hickory, near the intersection of Route 543 and the U.S. Route 1 Bypass.

The majority of the future sewage flow in the collector sewer is anticipated to be generated by the development of the properties proximate to the Route 543/U.S. Route 1 Bypass intersection. As a result of additional proposed development in this area, an Adequate Public Facilities analysis was performed on the collector sewer. This analysis has revealed that the remaining undeveloped or underdeveloped properties that will generate sewage and flow through the collector sewer will cause sections of the collector sewer to exceed their rated capacity. The service area for this policy is shown on Exhibit A. It has been determined that the most feasible alternative for providing additional capacity for the service area is to construct replacement sewers for those sections of sewer. The purpose of this policy is to identify the extent of the improvements and to identify the costs associated with the improvements, along with the method of recovering those costs.

This policy is unique because there are multiple sections of sewer main that must be replaced to address the requirements of the Adequate Public Facilities ordinance and these sections of sewer main will be constructed at different times as they are required. The replacement sewer project will be broken down into multiple contracts and constructed by the Division of Water and Sewer as County capital projects. Exhibits B1 and B2 show the alignment of the existing collector sewer and the location of the sewer sections identified for replacement. They will be constructed when necessary to provide capacity for development. Since each section of replacement sewer will be constructed when needed, the surcharge/recoupment for the sections will be distributed across all of the remaining undeveloped and underdeveloped parcels. The estimated project costs for each section and the development of the associated surcharge/recoupment amounts for the required improvements is presented in Exhibit C. This policy may be modified in the future to ensure that the County can recover the funds required to construct the improvements.

This policy solves the capacity restrictions of the collector sewer through construction of various sections via capital projects under control of the County, and provides a mechanism for funding the sections. Therefore, once the County formally adopts this policy, the collector sewer described in this policy shall be considered adequate when analyzing the parcels within the current service area (shown on Exhibit A) for compliance with the Adequate Public Facilities ordinance.

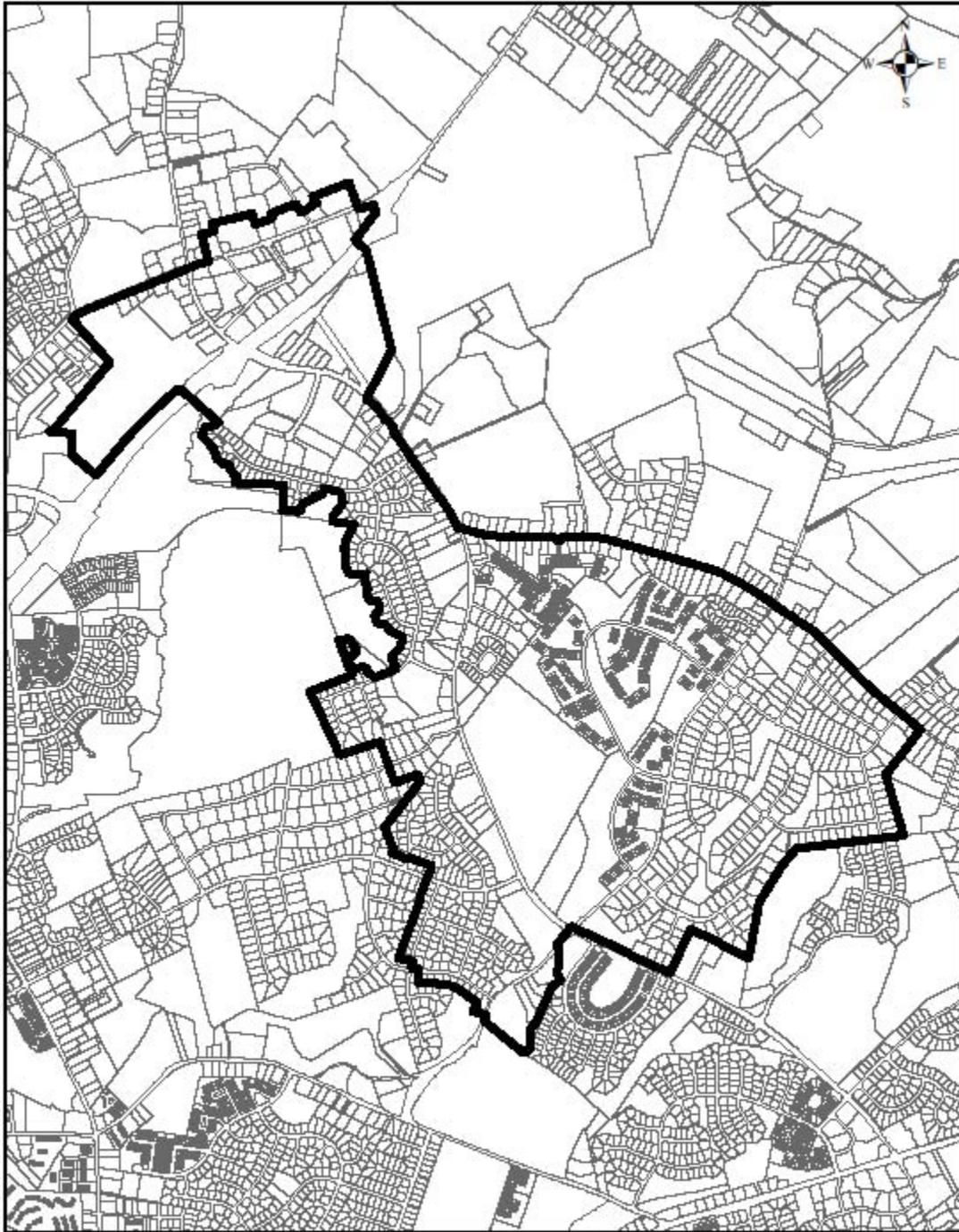
The undeveloped and underdeveloped properties within the service area whose sewage will flow through any portion of the collector sewer that is shown in Exhibits

B1 and B2 shall pay the surcharge/recoupment shown on Exhibit C based upon the number of equivalent dwelling units generated by the development of the properties. If any parcel develops at a density significantly higher than projected by this policy, the surcharge will be adjusted using the larger number of equivalent dwelling units. The adjustment would occur after the County has approved the Preliminary or Site Plan for development of the parcel and before the connection charges are paid. To accomplish this change, the policy will be revised through the public hearing process as described in Section 807 of the County Charter, adjusting the surcharge accordingly.

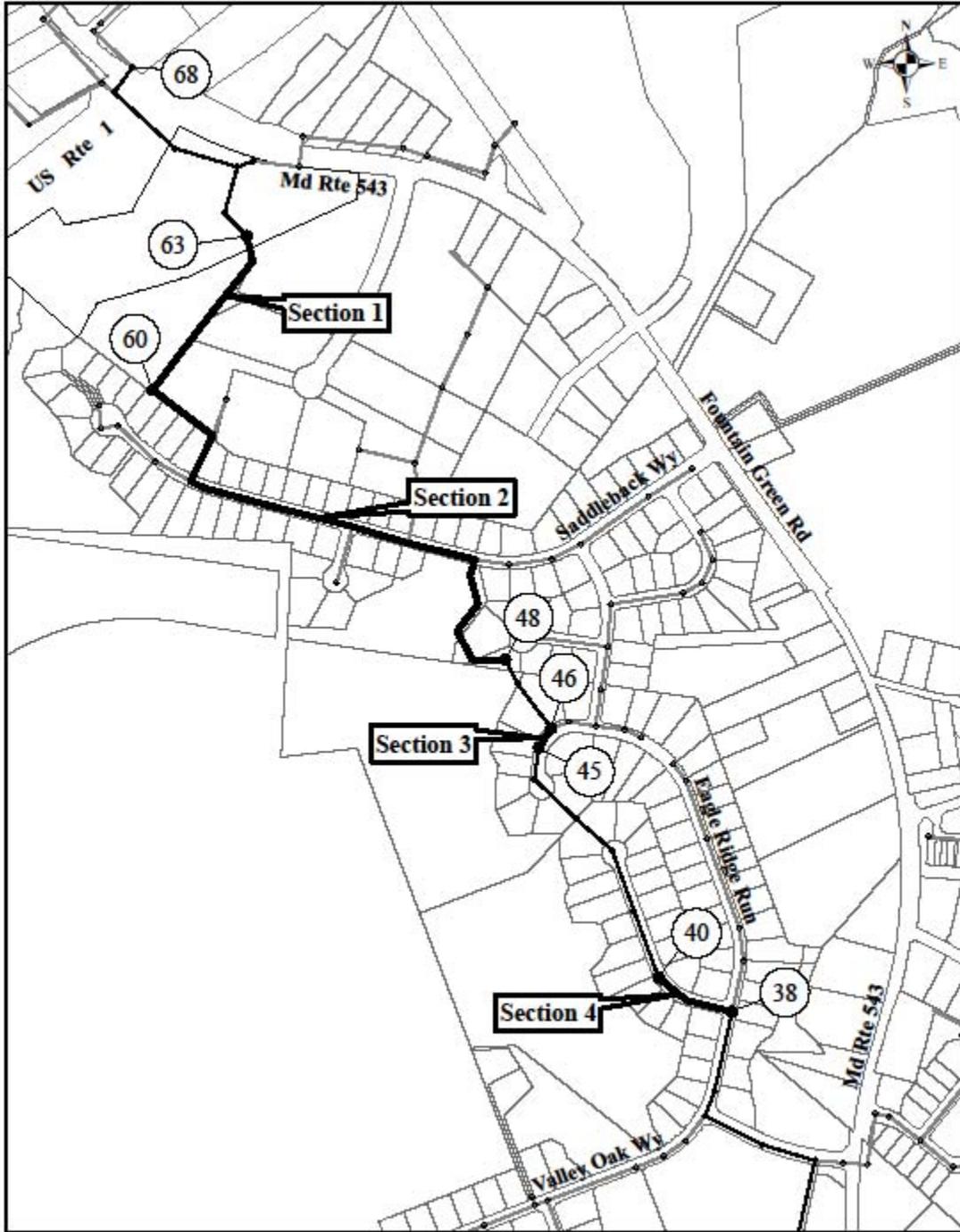
The project costs are subject to adjustment after construction of a section to account for the actual costs of design, construction and financing. After each section has been constructed and declared operational, the estimated project costs will be adjusted to reflect the actual costs. The cost per equivalent dwelling unit will also be adjusted accordingly through the public hearing process. No additional surcharge/recoupment payments will be required from any properties for Equivalent Dwelling Units already paid. Likewise, if the per unit cost is decreased after a section is constructed, the County will not refund the difference between the cost already paid for any Equivalent Dwelling Unit and the new, lower cost. Existing Harford County sewer customers shall not pay the surcharge/recoupment charges unless their property is further developed or additional fixture units are added, requiring additional hook-up charges to be assessed.

The surcharge/recoupment for the Hickory Area Collector Sewer is determined to be \$6,523 per Equivalent Dwelling Unit. This fee is currently based on calendar year 2018 construction cost. Since the actual section construction periods are undetermined at this time, the surcharge/recoupment will be adjusted annually to account for cost escalation. Each year a "cost index" will be applied to the surcharge/recoupment to account for the escalation. The index will be based on the annual percent change of the Construction Cost Index (CCI) as published in the "Engineering News-Record". The annual index will be based on the twelve-month average for each year. Starting in 2020 an annual cost escalation will be applied to the surcharge/recoupment based on the index for the previous year (2019 for the first escalation). Collection of the escalated surcharge/recoupment fee shall be applied at the beginning of the upcoming fiscal year starting July 1st (July 1st, 2020 for the first escalation). A surcharge is an amount of money paid per equivalent unit for a project that is not yet completely financed or has not yet been constructed. A recoupment is defined as an amount of money paid per equivalent unit for a project that has already been financed or constructed by another party.

Each apartment, condominium or mobile home shall be considered as one equivalent dwelling unit for paying the surcharge/recoupment established by this policy. Single-family homes and townhouses shall pay the surcharge/recoupment on a lot by lot basis. Apartments may pay the surcharge/recoupment building by building, using the number of units in each building to calculate the total amount due. The surcharge/ recoupment shall continue until the County has recovered the costs for every section of replacement sewer. The charges instituted by this policy shall be collected at the time that all other hook-up charges are paid. No additional surcharge/recoupment payments will be required for Equivalent Dwelling Units already paid.

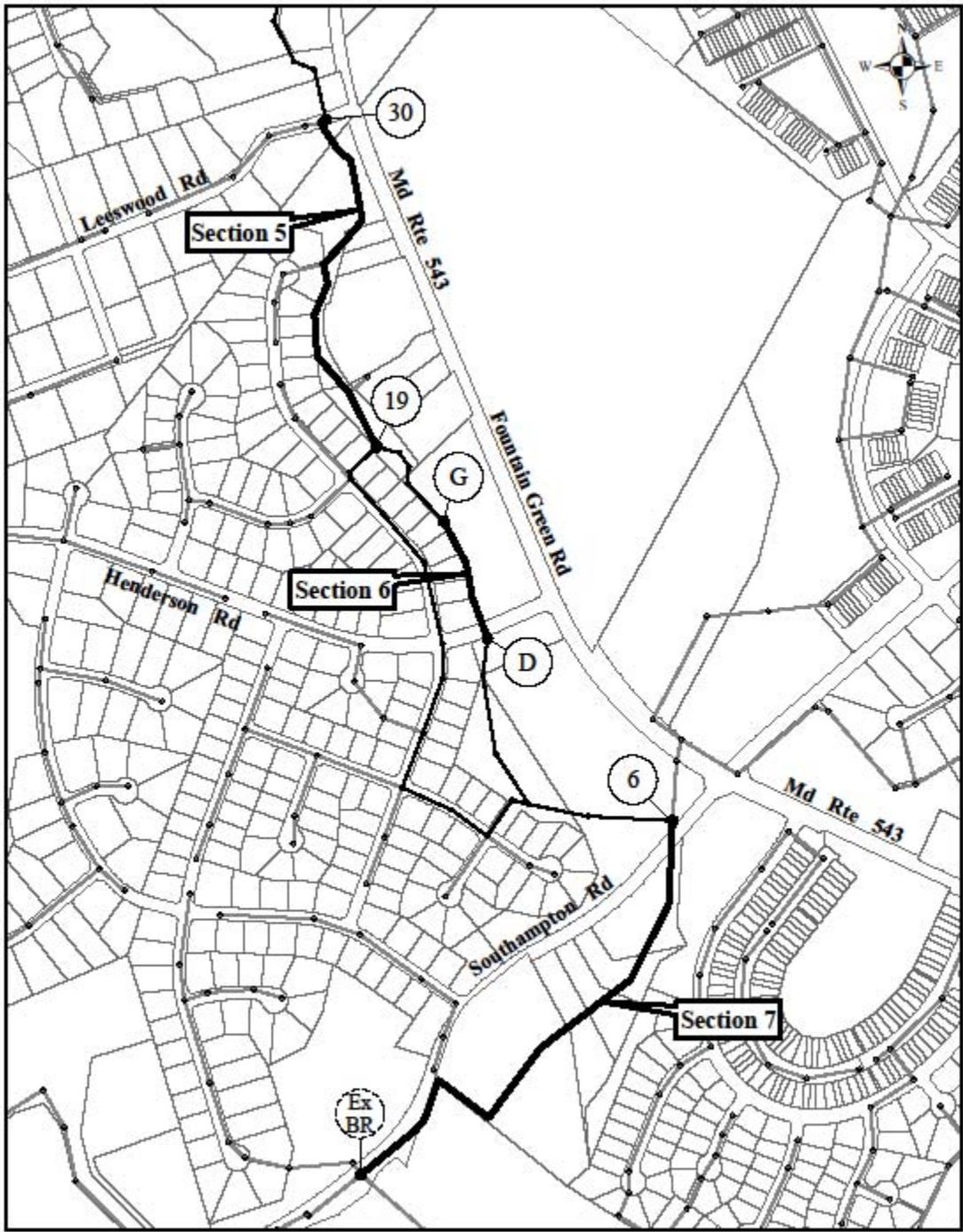


Hickory Collector Sewer Service Area
Exhibit A



Hickory Collector Sewer
Exhibit B1

Amended 9/19/19



Hickory Collector Sewer
Exhibit B2

Exhibit C

Section 1 -		
MH 60 to MH 63	737 feet	
Engineer's Estimate for the Project Cost of 12" Replacement Sewer		\$451,300.00
Section 2 -		
MH 48 to MH 60	2,224 feet	
Engineer's Estimate for the Project Cost of 12" Replacement Sewer		\$2,396,000.00
Section 3 -		
MH 45 to MH 46	91 feet	
Engineer's Estimate for the Project Cost of 12" Replacement Sewer		\$243,000.00
Section 4 -		
MH 38 to MH 40	324 feet	
Engineer's Estimate for the Project Cost of 12" Replacement Sewer		\$343,000.00
Section 5 -		
MH 19 to MH 30	1473 feet	
Engineer's Estimate for the Project Cost of 12" Replacement Sewer		\$686,000.00
Section 6 -		
MH D to MH G	485 feet	
Engineer's Estimate for the Project Cost of 12" Replacement Sewer		\$251,000.00
Section 7 -		
Bynum Interceptor to MH 6	2158 feet	
Engineer's Estimate for the Project Cost of 18" Replacement Sewer		\$1,057,000.00
Total Project Cost for all sections =		\$5,427,300
Total Number of Future Connections	832	
Cost per Equivalent Dwelling Unit =		\$6,523.20
	Use	\$6,523

Amended 2/25/2020

62. Reckord Road Pumping Station Policy (RRP)

- (Policy established 7/15/2019)

In 2017, an engineer was hired by the Division of Water and Sewer to evaluate the capacity of the sanitary sewers in the Fallston commercial corridor. At the conclusion of the yearlong study, they finalized a report that provided recommendations for improving the sewer system to allow the buildout of the sewer service area. The report concluded that the elimination of the Fallston Sanitary Subdistrict (FSSD) and the addition of property into the sewer service area as part of Harford Next requires improvements to the Reckord Road Sewage Pumping Station to allow full buildout of the service area. The properties that were outside the FSSD and are affected by this policy are shown on Exhibit A.

The purpose of this policy is to establish a surcharge to recover the costs associated with constructing the improvements necessary to have the sewage pumping station comply with the Adequate Public Facilities Ordinance. A surcharge is an amount of money paid per equivalent unit for a project that is not yet completely financed or has not yet been constructed. Any properties that are highlighted on Exhibit A shall be responsible for paying their proportionate share of the cost of upgrading the Record Road Sewage Pumping Station. The improvements will be constructed by the County when necessary to provide capacity for development.

This policy solves the capacity restriction of the sewage pumping station through planned construction of improvements to the station. Therefore, once the County formally adopts this policy, the Reckord Road Sewage Pumping Station shall be considered adequate when analyzing the parcels within the service area (shown on Exhibit A) for compliance with the Adequate Public Facilities ordinance.

The estimated cost of the improvements to the Reckord Road Sewage Pumping Station is \$582,138. The breakdown of this cost can be found in Appendix Q of the Fallston Sanitary Subdistrict Sewer Capacity Study by Whitman Requardt and Associates dated March 2019. There are 224 projected connections from the properties shown on Exhibit A, resulting in a surcharge per equivalent unit of \$2,599. The highlighted properties shown on Exhibit A shall pay the surcharge based upon the number of equivalent dwelling units generated by the development of the properties.

This surcharge is based on calendar year 2018 construction costs. Since the time at which the construction will take place is undetermined, the surcharge will be adjusted annually to account for cost escalation. Each year a "cost index" will be applied to the surcharge to account for the escalation. The index will be based on the annual percent change of the Construction Cost Index (CCI) as published in the "Engineering News-Record". The annual index will be based on the twelve-month average for each year. Starting in 2020 an annual cost escalation will be applied to the surcharge based on the index for the previous year (2019 for the first escalation). Collection of the escalated surcharge fee shall be applied at the beginning of the upcoming fiscal year starting July 1st (July 1st, 2020 for the first escalation).

Each apartment, condominium or mobile home shall be considered as one equivalent dwelling unit for paying the surcharge established by this policy. Single-family homes and townhouses shall pay the surcharge on a lot by lot basis. Apartments shall pay the surcharge building by building, using the number of units in each building to calculate the total amount due. The surcharge shall continue until the County has recovered the cost for the improvements to the Reckord Road Sewage Pumping Station. The charges instituted by this policy shall be collected at the time that all other hook-up charges are paid.



Reckord Road Policy
Exhibit A

PART 19 - APPLICATION FOR COMMERCIAL WATER/SEWER OR FIRE SERVICE

An application for Commercial Water/Sewer and/or Fire Service shall be submitted to the New Connection Services Section of the Division of Water and Sewer. The application package will be provided, upon request, by the New Connection Services Section and will include the following:

- A. Application form
- B. Fixture Count Value Form
- C. Industrial User Survey

The Business/Property Owner(s) shall submit with the application the following:

- A. One (1) set mechanical/plumbing drawings with all interior and exterior fixtures, including specialized water-using equipment, clearly shown.
- B. Detailed drawings of fire service including pipes, valves, hydrants, tanks, openings, sprinklers or other fixtures (minimum scale of 1" = 20').
- C. On-site water and sewer drawings (minimum scale of 1" = 20')
- D. Completed Fixture Count Value Form.
- E. Copy of site plan approved by Harford County Department of Planning and Zoning if applicable to this project.
- F. Completed Industrial Waste Management Survey Form.

Any application package that is submitted that is determined by the County to be incomplete will be rejected and returned.

Harford County will review and comment on site drawings. One (1) mark-up will be returned to the Engineer, as designated on the application form, for corrections. When drawing is corrected, Engineer must resubmit to the New Connection Services Section four (4) copies of the corrected drawing along with the mark-up.

If the Business/Property Owner(s) request(s) that the service be installed by Harford County, excluding fire service, the County can prepare an Engineer's Estimate for the work. The Business/Property Owner(s) must agree to pay for the estimated costs, hook-up charges and meter installation charges before the service is installed by County staff. After the service is installed, actual costs will be calculated. Any over-payment will be reimbursed to the Business/Property Owner(s) by the County. The Business/Property Owner(s) must agree to pay for any costs incurred by the County over and above the original Engineer's Estimate.

If the Business/Property Owner(s) request(s) the service be installed by its (their) contractor, as designated in the application, the process will be as follows:

- A. Hook-Up charges must be paid in full. Payment of hook-up charges at this time may be deferred until the time of application for plumbing permit by posting a Performance Bond or Irrevocable Letter of Credit in a form acceptable to Harford County in the full estimated amount of the cost of construction. Said estimate shall be bonded in the same manner as that for Developer projects (see Part 22).
- B. The contractor will be responsible for contacting the Water and Sewer Chief Inspector a minimum of twenty-four (24) hours before starting work. The work will be accomplished under the inspection of the Division of Water and Sewer.

NOTE: NO WORK SHALL COMMENCE UNTIL THE HOOK-UP CHARGES ARE PAID AND THE APPLICATION IS APPROVED

- C. The Business/Property Owner(s) must agree to reimburse County for all inspection costs incurred by the County.

Meter vaults shall be installed in an area dedicated as County easement. The Business/Property Owner(s) shall prepare the easement documents. The vaults shall be dedicated to Harford County, and the County shall be responsible for maintenance of the vault(s) and appurtenances after final acceptance by County of the facilities installed under this application. The Business/Property Owner(s) agree(s) to reimburse Harford County for any maintenance work required during the first year of operation after date of acceptance.

Business/Property Owner(s) must assure that all fire service fixtures will be closed and sealed and used only in the event of a fire.

The Business/Property Owner(s) must agree that Harford County shall not be considered in any manner an insurer of the serviced property or persons and shall hold harmless the County from any and all claims for damages for any alleged injury to property or person by reason of fire, water, failure to supply water or pressure inspection or for any other related matter arising from the providing of the applied for services.

The Business/Property Owner(s) must agree that the staff of the Division of Water and Sewer shall have the right to enter the premises of the Business/Property Owner(s) at any reasonable time for the purpose of making such inspections to assure proper use of fire service fixtures, to verify actual fixture count values after construction is complete and to verify installation of water and/or sewer connection(s) and appurtenances.

The Business/Property Owner(s) will be responsible for notifying the Water and Sewer Chief Inspector a minimum of seventy-two (72) hours prior to the request for a Use and Occupancy Permit. If additional plumbing fixtures have been installed since issuance of a building permit, the adjusted water and sewer hook-up charges must be paid prior to issuance of Use and Occupancy Permit by County.

Business/Property Owner(s) must agree to obtain approval from Harford County for any modifications made at any time to the fire service and fixtures.

The Business/Property Owner(s) must agree to pay any charges for fire service as adopted by Harford County Council and to pay any fees established in these Rules and Regulations or the Division of Water and Sewer for violation of the above stipulations.

Harford County maintains the right to discontinue fire service upon written notice given fifteen (15) days in advance for violation of any of the above stipulations herein stated.

PART 20 - WATER LEAKS ON PRIVATE PROPERTY IN FRONT OF WATER METER (INSIDE)

1. The Division of Water and Sewer shall immediately discontinue service at the property line in case of large leaks. The customer and/or owner shall be responsible to correct the leak before service is restored. No turn-off or turn-on fee shall be charged.
2. For minor leaks, the Division shall notify the customer and/or owner of the problem and allow a period of three (3) calendar days for correcting the leak. After three (3) calendar days, the service may be discontinued and shall not be restored until the leak is repaired. The turn-off/turn-on fee in effect shall also be paid by the customer before service is restored.

PART 21 - WATER CONSERVATION POLICY

The following policy may be imposed immediately by the Director of Public Works in case of a drought or an emergency. If imposed, the Department will notify its customers through the local media. Any notice or user fee imposed for violation of this policy during the first thirty (30) days may be waived at the discretion of the Director.

No watering of lawns with unattended lawn watering devices shall be allowed for Harford County water customers.

All other outdoor use of water (hand-held devices only) are permissible and shall have no restrictions.

1. First violation shall be subject to a warning notice.
2. Second and subsequent violations shall be subject to a Fifty Dollar (\$50.00) user fee for each calendar day and each sprinkler device. This fee shall be subject to a lien on the property if unpaid.
3. All violations shall be verified by Harford County Employees.

This policy affects Harford County water customers and does not include customers of the City of Havre de Grace, the City of Aberdeen, the Maryland-American Water System, Greenridge Utilities or other private water systems or private wells.

PART 22 - DEVELOPER'S PROJECT PROCEDURES

A. Letter of Authorization

The Developer is responsible for submitting a completed Letter of Authorization form to the Department of Public Works concurrent with the initial submittal of any documents to the County for review. The Letter obligates the Developer to assume the financial responsibility of any charges for County staff time in the review and approval of said documents. These documents include, but are not limited to concept plans, preliminary plans, site plans, water and sewer construction drawings and administrative charges such as preparation of Public Works Utility Agreements, processing of bonds and/or letters of credit, project acceptances, etc.

B. Public Works Utility Agreement (PWUA)

1. It is the Developer's responsibility to notify Water and Sewer Administration, in writing, when the PWUA will be required.
2.
 - a. Prior to the execution of a Public Works Utility Agreement, the system shall be tested for adequate capacity. Said test shall be dependent upon the expected completion date of funded capital projects.
 - b. Tests for adequate capacity and subsequent preliminary plan or PWUA approval does not constitute a commitment of capacity. The County does not guarantee to provide any water and sewer pumping, transmission and treatment capacity that is beyond the capacity of the existing pumping, transmission and treatment facilities at the time actual connections are desired.
 - c. The issuance of building permits shall be dependent upon adequate capacity of the existing system at the time of issuance.
3. The PWUA may be prepared at the time of construction drawing approval. Note that final plats must be recorded prior to the issuance of any permits.
4. Documentation of ownership is required as an Exhibit to the PWUA in the form of a Title Certificate, Title Insurance Policy or Attorney Opinion Letter or a recorded deed.
5. The PWUA shall be written in accordance with approved water and sewer construction drawings which may contain one or more operational breaks.

6. Construction of a subsequent section or phase of a development will be initiated only after twenty-five percent (25%) of the lateral facilities in the current phase have been constructed, and after the PWUA has been executed for the subsequent phase.
7. The Developer shall have nine (9) months following the date of execution of the PWUA in which to commence construction of the lateral facilities for which the Agreement is written. In the event the Developer fails to commence construction of the lateral facilities or, if after having commenced construction of the lateral facilities, Developer stops construction of the facilities pursuant to the PWUA for a period in excess of six (6) months, then the Department of Public Works may declare this Agreement null and void and of no further force and effect.

C. Construction, Operational and Use and Occupancy

1. The Developer shall be responsible for obtaining State Health Department Construction Permits, when required. Water Resources Permits or other government permits as required by law, shall be obtained by the Developer and delivered to Harford County prior to start of construction.
2. The Developer is responsible for providing Harford County with certified as built drawings on original mylars using the following procedures:
 - a. Prior to the time of the pre-construction conference, the Division of Water and Sewer will receive the original mylar drawings from the engineer. Construction of the project will not begin until these drawings are in the County's possession.
 - b. Immediately after the construction of the section for which an operational will be requested is complete, the Developer or his agent shall request that the original mylars be transmitted from the Division of Water and Sewer engineering offices to the Developer's engineer. The engineer or surveyor shall field locate, using horizontal and vertical control, all valves, hydrants, curb stops, meter vaults, manholes, lampholes, cleanouts, and any other water and sewer appurtenances that were installed as part of the contract.
 - c. The engineer or surveyor must then incorporate the engineer's field located and certified as-built information onto the original mylar drawings as well as add the lot addresses and return them to the County for review and approval by the County. All work required to provide the as-built information onto the drawings shall be performed by the engineering company that designed the project or the engineer or surveyor that performed the construction stakeout and signed by the licensed professional

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responsible for the preparation of the as-built drawings. Completion of the as-built survey and subsequent drawing amendments must be in accordance with the as-built requirements in Part 25, Water and Sewer Design Guidelines, Section VII. A third party can perform this work only with the written approval of the Director of Public Works. This is the exception, not the rule. The as-built drawing submittal must be accompanied by a digital copy of the water and sewer features surveyed. The format shall be comma delimited digital ASCII files with the following information: Point Name, Northing, Easting, Elevation and Code. This information shall be submitted from all surveyors and engineers which utilize electronic survey equipment.

- d. The Operational Certificate for the project will not be approved by the Division of Water and Sewer until all of the work mentioned above has been completed.
 - e. The County will make every effort to review, comment and/or accept the As-Built Certified drawings within five (5) working days after receipt from the Developer.
3. An Operational inspection will be granted when (1) all facilities are constructed in accordance with pre-determined Operational Breaks pursuant to approved construction drawings and the PWUA and (2) the base course of paving for roadways and parking lots which contain water and/or sewer facilities has been installed. No Operationals other than those noted on approved drawings will be given.
 4. Immediately prior to issuance of the Operational Certificate, (that is a pre-designated and pre-approved Operational Break) a Project Cost Affidavit shall be submitted by Owner/Developer to the County along with an actual quantities breakdown of all facilities actually installed. A performance security in an amount equal to fifteen percent (15%) of the one hundred fifteen percent (115%) of project cost will be submitted at this time to cover any punch list items in anticipation of project acceptance and for operation and maintenance problems that may occur while under the responsibility of the Owner/Developer. Total project cost at the time of Operational shall include all actual cost for all excavation, material, equipment, labor, soil stabilization, sub-surface rock removal, etc.
 5. Should the Developer fail to correct operation or maintenance problems during the Operational Acceptance period, or should the Developer fail to request Final Acceptance, the County may complete the work and bill any costs against the Developer. The County reserves the right to utilize any securities which have been posted on the project to recover any costs.

6. It is the responsibility of the Developer to request, in writing, the final inspection by the County to allow release of any securities held on the project.
7. The Developer is ultimately responsible for providing facilities which comply with County standards. This includes the mains and all service connections to the property, including cleanouts, curb stops, meter vaults, grinder pumps and hydro pneumatic booster tanks. Recognizing that the construction of buildings frequently results in modification or damage to the water and/or sewer service connections by the builder or building permittee, or their agents, an inspection of the water and sewer services is required prior to issuing any Use and Occupancy permits. The following requirements are applicable to the water and sewer Use and Occupancy inspection.
 - a. It is the permittee/builder's responsibility to call the Water and Sewer Division, Abingdon Maintenance Facility, to request a Use and Occupancy inspection. A forty-eight (48) hour notification is required. Permittee/builder is responsible to assure water and/or sewer service connections meet current standards prior to requesting a Use and Occupancy inspection appointment. For the sewer service cleanout at property line, the stack or wye branch connection shall be visible from the cleanout opening and all obvious visible problems corrected. If, upon the visual inspection, the pipe appears to be distorted or deflected, there are alternative inspections that the permittee/builder can perform. The alternative inspections must comply with the September 24, 1992 Memorandum from the Chief of Plumbing Services, which is incorporated herein by reference.
 - b. Information which must be provided with a Use and Occupancy inspection request includes, as a minimum: a permit number; a builders lot number; an address; a subdivision; a builders' name; a telephone number; and cross street reference.
 - c. When the inspection is performed, it is strongly recommended that the permittee/builder have a representative available to witness the inspection. The result of the inspection will be recorded by the water and sewer staff, to be left with the permittee/builder representative or attached to a window on the property.
 - d. Permittee/builder must call when reinspection is needed, and a forty-eight (48) hour notification is again required.
 - e. If a permittee/builder Type I Use and Occupancy has not been resolved within time limits specified by the County (one to thirty days), no additional Use and Occupancy permits will be issued to that builder until outstanding Type I deficiencies are resolved.

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Exception to the time frame requirement may apply only to Type I approvals issued for winter seeding and grading. A Type I that is on hold due to winter seeding and/or grading must be resolved by May 1.

- f. Initial Use and Occupancy inspection is provided at no cost to permittee/builder. All re-inspections will be billed at the rate of \$60 per hour; the time billed shall include staff time, portal to portal, and a minimum of one-half hour per re-inspection will be billed.
- g. Water meter must be set before the issuance of a Use and Occupancy permit.

D. Procedures for Posting Water/Sewer Securities

Harford County Code authorizes the release of building permits prior to completion of construction of water and sewer facilities in a development provided that a security has been posted. The Developer is required to post security in the amount of one hundred and fifteen percent (115%) of the amount of the contract by and between the Developer and the contractor that will perform the work (said contract to describe a complete scope of work including all utility grading costs, installation, material, excavation, equipment, labor, soil stabilization, seeding and mulching, known sub-surface rock removal, etc), guaranteeing the completion of the construction of the water and/or sewer facilities required to provide services to the improvements to which the building permit applies and for the amount of hook-up charges, as determined by the County. Security shall be in the form of a Cash Performance Bond, a Performance Bond issued by an acceptable insurance company or an irrevocable letter of credit, as applicable and acceptable to the County. The Developer, along with the security, shall provide a written guarantee to Harford County by the contractor to complete the work, in the event the Developer defaults on it's obligations under the Public Works Utility Agreement, for the amount of the contract between the Developer and the contractor. The following procedure shall be used:

1. The Developer shall make a written request to the Division of Water and Sewer to post security. The request shall include a copy of the contract by and between the contractor and the Developer. The request shall also specifically detail the construction contract number, street names and lots involved and operational break(s), if applicable.
2. The Division of Water and Sewer shall review the request, and the required security amount shall be confirmed by the Division of Water and Sewer in writing.
3. The Developer shall submit the security and the guarantee to the Division of Water and Sewer for review and acceptance.

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4. Request for reduction of the security for facilities installed and tested, including services, shall be made by the Developer, in writing to Water and Sewer Bureau of Construction Management with a copy to the Director of Public Works and a copy to Water and Sewer Administration. The request shall include a breakdown of quantities of work completed including footage and sizes of various pipes, manholes, valves, hydrants and pumping facilities, etc. and contingency items. The request shall also specifically detail the construction contract number, street names and lots that may be involved and operational break(s), if applicable.
5. The County may process one (1) reduction of the performance security during construction at fifty percent (50%) completion of the construction of facilities upon receiving verification from the Bureau of Construction Management.
6. Upon Operational Certificate for pre-designated and pre-approved Operational Breaks, the existing performance security may be reduced to fifteen percent (15%) of one hundred fifteen percent (115%) of the actual total cost. If there is no existing performance security, performance security shall be submitted, again in the amount of fifteen percent (15%) of one hundred fifteen percent (115%) of the actual total cost.
7. The County may process one (1) reduction of the security posted to guarantee the payment of hook-up charges when fifty percent (50%) of those charges have been paid. This request for reduction shall be made in writing by the Developer to the Division of Water and Sewer and shall include the addresses and lot numbers for which the hook-up charges have been paid.
8. For projects that had pre-construction conference before July 1, 1993 and did not provide pre-designated and pre-approved breaks and for projects that were under construction before July 1, 1993 and did not provide pre-designated and pre-approved operational breaks, maintenance security shall be submitted by Developer to County when applying for final acceptance in the amount of ten percent (10%) of the actual total cost of the project for a term of one (1) year from date of acceptance. Total project cost shall include all actual cost for all excavation, material, equipment, labor, soil stabilization, sub-surface rock removal, etc. If repairs are determined by County to be done by Developer prior to the end on one (1) year maintenance term and those repairs are not completed by the end of the one (1) year maintenance term, said maintenance bond or letter of credit can be renewed by County accordingly.

E. Project/Final Acceptance

1. For all projects that had pre-construction conferences and/or for projects that began construction prior to July 1, 1993 and did not provide for pre-designated and pre-approved Operational Breaks, substantial completion shall be determined by the County and shall include: ninety-five percent (95%) completion of residential units within residential subdivisions; the completion of all but twelve (12) residential units within a residential subdivision, whichever is determined to be applicable by the County; completion of non-residential construction on ninety percent (90%) of the acreage of non-residential subdivision; and completion of non-residential construction on all but one (1) lot or five (5) acres in a non-residential subdivision. No building permits beyond the ninety-five percent (95%) build-out will be issued until project acceptance has been completed, signed and submitted, along with the maintenance security, to County by Developer.

2. For residential projects that had pre-construction conference after July 1, 1993 and projects that began construction after July 1, 1993 that provided pre-designated and pre-approved Operational Breaks, the following Project Acceptance Procedure applies:

A Project Acceptance shall be processed at the time of Operational Certificate for each Operational Break with the intent to have Project Acceptance completed within ninety (90) days of the date of Operational Certificate; however, operation and maintenance responsibility shall be borne by the Developer until:

- a. For residential projects, construction must be ninety-five percent (95%) complete within the Operational break and one (1) year has passed since the date of Operational Certificate, whichever is later, and (b) and (c) below have also been satisfied.

For non-residential projects, construction must be at ninety percent (90%) of the acreage or all but one (1) lot or five (5) acres, and (b) and (c) below have also been satisfied.

- b. Developer has requested final inspection in writing, and has completed all punch list items detailed during that inspection, and the County has verified, in writing, that the punch list is satisfactorily complete. A County punch list is valid for only ninety (90) days. The Developer must complete final punch list work within ninety (90) days of receipt. If Developer fails to complete the punch list work, the County may re-inspect and re-issue an updated punch list.

- c. Roadways within the limits of the project being accepted have had the final surface applied.
- d. Pumping stations constructed by a Developer in accordance with a Public Works Utility Agreement shall be dedicated to the County through Project Acceptance within ninety (90) days of the date of Operational Certificate with no outstanding punch list items. The Developer shall have posted an operational bond, to be held for a minimum period of five years, from the time of project acceptance. The Developer shall be responsible for the cost of operation and maintenance of the facility for five (5) years from the date of Project Acceptance except when the station has been built for double or more than the capacity required for Developer's project. In this instance, Developer shall be responsible for the cost of operation and maintenance of the facility until Developer's project is one hundred percent (100%) built-out (at the time of the last Use and Occupancy Permit) or five (5) years from the date the Project Acceptance is fully executed, whichever is sooner.

PART 23 - WASTEWATER TREATMENT WORKS – Revised 02/04

The following requirements may be in addition to, or in association with, Harford County Code Section 256 and/or the specific Industrial Discharge Permit issued by the County to an industrial user. County Code and the Permit supercede any potential conflicting requirements in this Section.

I. Fees and Billing.

- A. Each industrial user, as defined in County Code, shall be assessed a yearly industrial user charge in the amount specified pursuant to Harford County Code §§ 157-23A and 256-72. A discharge permit shall not be issued or renewed until the fee is paid.
- B. Initial Permit Fee. A user shall pay a fee of One Hundred Fifty Dollars (\$150.00) for the processing of any new permit request pursuant to Section 256-72.
- C. For requested laboratory monitoring requirements, the industrial user will comply with fees established in Section 7 of these Regulations.

II. Local Limits.

- A. No discharge by an industrial user or a commercial user shall contain any of the following substances in a concentration greater than that permitted by the below Local Limits and requirements defined below:

1. Local Limits for Sod Run Wastewater Treatment Works, Joppatowne Wastewater Treatment Works and Spring Meadows Wastewater Treatment Works.

<u>Parameter</u>	<u>Max. Concentration Expressed in mg/L*</u>
1. Total Arsenic	3.74
2. Total Cyanide	2.76
3. Total Lead	7.05
4. Total Mercury	0.009
5. Total Chromium	6.70
6. Total Copper	3.07
7. Total Cadmium	2.86
8. Total Nickel	6.35
9. Total Silver	0.24
10. Total Zinc	7.37
11. Total Toxic Organics**	2.13
12. pH	6.0 min., 9.0 max.

*All values are expressed in mg/L which are milligrams per liter or parts per million unless otherwise noted. Concentrations specified in ug/L are micrograms per liter or parts per billion.

**TTO is defined as the sum of the concentrations of the toxic organic compounds shown on the Harford County DPW Local Limits Total Toxic Organics List. This list will exclude all pesticides/PCB's which are prohibited. Prohibited shall mean that these compounds cannot be detected in the users discharge using MDE and County analysis protocol.

These limitations are for all Industrial Users, as defined in County Code.

III. Required Laboratory Analysis Protocol for Specific Pollutants

- A. The industrial user will comply with the following requirements for analysis.

**LOCAL LIMITS
REFERENCE DATA SHEET
TEST METHODS AND DETECTION LIMITS**

<u>PARAMETER</u>	MINIMUM PRACTICAL DETECTION LEVEL, <u>(ug/L)</u>	STANDARD METHOD ^{1,2,3} <u>#</u>
METALS/INORGANICS₄		
Aluminum	5	304(FAA)
Tin	20	304(GFAA)
Arsenic	2	303E(HGAA)
Beryllium	5	200.7(ICP) ₅
Cadmium	0.5	304(GFAA)
Chromium (total)	5	304(GFAA)
Chromium +6 (dissolved)	10	303B(CFAA)
Copper	2	304(GFAA)
Cyanide	20	412D (MDS)
Lead	5	304(GFAA)
Mercury	0.5	303F(CVAAM)
Nickel	5	304(GFAA)
Selenium	2	303e(HGAA)
Silver	1	304(GFAA)
Thallium	5	304(GFAA)
Zinc	5	304(GFAA)

**LOCAL LIMITS
LIST OF PROHIBITED COMPOUNDS**

<u>PARAMETER</u>	MINIMUM PRACTICAL DETECTION LEVEL ₃ (ug/L)	STANDARD METHOD _{1,2,3} #
PESTICIDES		
Aldrin	0.05	608 (GC)
Alpha-BHC	0.05	608 (GC)
Beta-BHC	0.05	608 (GC)
Delta-BHC	0.05	608 (GC)
Lindane/g-BHC	0.05	608 (GC)
Chlordane (sum of cis & trans)	0.05	608 (GC)
4,4' - DDD	0.1	608 (GC)
4,4' - DDE	0.1	608 (GC)
4,4' - DDT	0.1	608 (GC)
Dieldrin	0.1	608 (GC)
a-Endosulfan	0.1	608 (GC)
b-Endosulfan	0.1	608 (GC)
Endosulfan S04	0.1	608 (GC)
Endrin	0.1	608 (GC)
Endrin Aldehyde	0.1	608 (GC)
Heptachlor	0.05	608 (GC)
Heptachlor Epox	0.05	608 (GC)
Toxaphene	1.0	608 (GC)
PCB/AROCHLORS		
PCB1016	0.5	608 (GC)
PCB1221	0.5	608 (GC)
PCB1232	0.5	608 (GC)
PCB1242	0.5	608 (GC)
PCB1248	0.5	608 (GC)
PCB1254	1.0	608 (GC)
PCB1260	1.0	608 (GC)

These compounds are not to be detected using the methods and detection limits assigned per Maryland Department of the Environment.

**LOCAL LIMITS
TOTAL TOXIC ORGANICS LIST
PAGE 1 of 4**

<u>PARAMETER</u>	MINIMUM PRACTICAL DETECTION LEVEL ₃ (ug/L)	STANDARD METHOD _{1,2,3} #
SEMIVOLATILES		
Acrolein	5	603 (GC)
Acrylonitrile	5	603 (GC)
Benzene	5	624/1624 (GC-MS)
Bromoform (Tribromomethane)	5	624/1624 (GC-MS)
Carbon Tetrachloride	5	624/1624 (GC-MS)
Chlorobenzene	5	624/1624 (GC-MS)
Chlorodibromomethane	5	624/1624 (GC-MS)
Chloroethane	10	624/1624 (GC-MS)
Chloroform (Trichloromethane)	5	624/1624 (GC-MS)
DCA, 1,1-	5	624/1624 (GC-MS)
DCA, 1,2-	5	624/1624 (GC-MS)
DCE, 1,1-	5	624/1624 (GC-MS)
DCE, 1,2-	5	624/1624 (GC-MS)
Dichlorobromomethane	5	624/1624 (GC-MS)
Dichloropropane, 1,2-	5	624/1624 (GC-MS)
Dichloropropene, 1,3- (cis)	5	624/1624 (GC-MS)
Dichloropropene, 1,3 (trans)	5	624/1624 (GC-MS)
Ether, 2-Chloroethyl Vinyl	10	624/1624 (GC-MS)
Ethylbenzene	5	624/1624 (GC-MS)
Methyl Bromide (Bromomethane)	10	624/1624 (GC-MS)
Methyl Chloride (chloromethane)	10	624/1624 (GC-MS)
Methylene Chloride (dichloromethane)	5	624/1624 (GC-MS)
TeCE	5	624/1624 (GC-MS)
TCA, 1,1,1-	5	624/1624 (GC-MS)
TCA, 1,1,2-	5	624/1624 (GC-MS)
TCE	5	624/1624 (GC-MS)
TeCA, 1,1,2,2-	5	624/1624 (GC-MS)
Toluene	5	624/1624 (GC-MS)
Vinyl Chloride	10	624/1624 (GC-MS)

**LOCAL LIMITS
TOTAL TOXIC ORGANICS LIST
PAGE 2 of 4**

<u>PARAMETER</u>	MINIMUM PRACTICAL DETECTION LEVEL ₃ (ug/L)	STANDARD METHOD _{1,2,3} #
SEMIVOLATILES		
Acenaphthene	10	625/1625 (GC-MS)
Acenaphthylene	10	625/1625 (GC-MS)
Anthracene	10	625/1625 (GC-MS)
Benzidine	10	605 followed by 625/1625 (HPLC/GC-
MS)		
Benzidine, 3,3-Dichloro-	20	625/1625 (GC-MS)
Benzofluoranthene, 3,4- (=b)	10	625/1625 (GC-MS)
Bis (2-chloroethoxy) Methane	10	625/1625 (GC-MS)
B(a)A	10	625/1625 (GC-MS)
B(a)P	10	625/1625 (GC-MS)
B(g,h,i) Perylene	10	625/1625 (GC-MS)
B(k) Fluoranthene (=11,12)	10	625/1625 (GC-MS)
Chloronaphthalene, 2-	10	625/1625 (GC-MS)
Chrysene	10	625/1625 (GC-MS)
DCB, 1,2-	10	625/1625 (GC-MS)
DCB, 1,3-	10	625/1625 (GC-MS)
DCB, 1,4-	10	625/1625 (GC-MS)
Dibenzo (a,h) Anthracene	10	625/1625 (GC-MS)
Diphenylhydrazine, 1,2-	10	625/1625 (GC-MS)
Ether, 4-Bromophenyl Phenyl	10	625/1625 (GC-MS)
Ether, 4-Chlorophenyl Phenyl	10	625/1625 (GC-MS)
Ether, Bis (2-Chloroethyl)	10	625/1625 (GC-MS)
Ether, Bis (2-Chloroisopropyl)	10	625/1625 (GC-MS)
Fluoranthene	10	625/1625 (GC-MS)
Fluorene	10	625/1625 (GC-MS)
HCA	10	625/1625 (GC-MS)
HCB	10	625/1625 (GC-MS)
Hexachlorobutadiene	10	625/1625 (GC-MS)
Hexachlorocyclopentadiene	10	625/1625 (GC-MS)
Indeno (1,2,3-c,d) Pyrene	10	625/1625 (GC-MS)
Isophorone	10	625/1625 (GC-MS)
Napthalene	10	625/1625 (GC-MS)
Nitrobenzene	10	625/1625 (GC-MS)
N-Nitrosodimethylamine	10	625/1625 (GC-MS)
N-Nitrosodiphenylamine	10	625/1625 (GC-MS)

**LOCAL LIMITS
TOTAL TOXIC ORGANICS LIST
PAGE 3 of 4**

<u>PARAMETER</u>	MINIMUM PRACTICAL DETECTION LEVEL ₃ (ug/L)	STANDARD METHOD _{1,2,3} #
N-Nitrosodi-N-Propylamine	10	625/1625 (GC-MS)
Phenanthrene	10	625/1625 (GC-MS)
Phenol	10	625/1625 (GC-MS)
Phenol, 2,4,6-Trichloro	10	625/1625 (GC-MS)
Phenol, 2,4-Dichloro-	10	625/1625 (GC-MS)
Phenol, 2,4-Dimethyl-	10	625/1625 (GC-MS)
Phenol, 2,4-Dinitro-	50	625/1625 (GC-MS)
Phenol, 2-Chloro-	10	625/1625 (GC-MS)
Phenol, 2-Nitro-	10	625/1625 (GC-MS)
Phenol, 4,6-Dinitro-2-Methyl	50	625/1625 (GC-MS)
Phenol, 4-Chloro-3-Methyl-	10	625/1625 (GC-MS)
Phenol, 4-Nitro-	50	625/1625 (GC-MS)
Phenol, Pentachloro-	50	625/1625 (GC-MS)
Phthalate, Butyl Benzyl	10	625/1625 (GC-MS)
Phthalate, DEH (bis-2-ethyl hexyl)	10	625/1625 (GC-MS)
Phthalate, Dibutyl	10	625/1625 (GC-MS)
Phthalate, Diethyl	10	625/1625 (GC-MS)
Phthalate, Dimethyl	10	625/1625 (GC-MS)
Phthalate, Dioctyl	10	625/1625 (GC-MS)
Pyrene	10	625/1625 (GC-MS)
TCB, 1,2,4-	10	625/1625 (GC-MS)
Toluene, 2,4-Dinitro-	10	625/1625 (GC-MS)
Toluene, 2,6-Dinitro	10	625/1625 (GC-MS)

NOTES AND ACRONYMNS FOR ALL SECTIONS PGS. 23-4 THROUGH 23-8:

1. Other methods achieving a detection level at least as sensitive as the one listed here are acceptable, provided they have been approved, for the analyte in questions, in 40 CFR, part 136.
2. Less sensitive screening methods can be used. However, if the pollutant is not detected, more sensitive methods must be employed if required for the specific local limit.

(NOTES CONTINUE NEXT PAGE)

3. If proper methodology is used, as specified above, and interferences decrease sensitivity, documentation must be provided.
4. Performance of the methods identified below must be preceded by acid digestion procedure.
5. EPA method referenced in Appendix C, CFR 40, part 136.

GFAA = Graphite Furnace Atomic Absorption

HGAA = Hydride Atomic Absorption

CVAAM = Cold Vapor Atomic Absorption

ICP = Inductively Coupled Plasma

CEAA = Chelation, Extraction Atomic Absorption

GC = Gas Chromatography

MS = Mass Spectrometry

MDS = Manual Distillation followed by Spectrophotometric

III. Person to Notify.

- A. In the event of a slug discharge or a discharge which bypasses a user's pretreatment system or a discharge which violates the prohibitions of the County Code, the user shall immediately notify the following persons:

Robert Clarke, Operations Manager
or Wayne Ludwig, Chief of Operations
Division of Water and Sewer
1212 Chelsea Road
Perryman, Maryland 21130
410-273-5617

If a hazardous compound is in the discharge, notification of 9-1-1 is also required.

- B. All spill prevention plans shall be submitted for review and approval to:

"Same as III. A."

- C. Any person who maintains a toxic pollutant which may through mistake, inadvertence or otherwise wind up in a discharge to a wastewater treatment works shall maintain employee signs or placards in all areas in which a leak, spill or discharge of the toxic pollutant may occur which contain, at a minimum, the following information:

1. Material safety data sheet
2. Proper disposal or re-use procedure
3. Steps to contain, control and report leak, spill or discharge.
4. List and phone numbers of contact personnel.
5. Contact procedures for Water and Sewer Division if spill goes to sanitary sewer.

- D. In the event of a spill or discharge of [these substances] which is entered or will be discharged to any wastewater drain, immediately notify the following person:

"Same as III A."

If a hazardous compound is in the discharge, notification to 9-1-1 is also required.

PART 24 - WATER AND SEWER PETITION PROCEDURES

1. Property owners requesting County water and/or sewer service must submit a signed petition form.
2. Once the petition has been received this Department determines the total area which could be served and the percentage of signatures obtained within that area.
3.
 - A) If the petition contains the majority of property owners within the proposed service area, the engineering staff will complete a preliminary study to determine the feasibility and the estimated cost of providing the utility service.
 - B) If the petition does not contain the majority of property owners within the proposed service area, the property owners will be notified and asked to obtain additional signatures. Further action will be held pending the receipt of additional signatures (Once they have been received, the process will continue as follows).
4. A packet of information containing a map of the proposed service area, a fact sheet with the preliminary estimated cost and annual assessment, and a ballot will be sent certified mail to each property owner. (The ballot shall include a statement that obligates all property owners to pay for all costs associated with the project upon authorization).
5. A community meeting will be scheduled with the property owners involved to explain all aspects of the project and answer any questions the owners might have.
6. Once the certified ballots have been tallied:
 - A) If the majority of property owners are opposed to the project for whatever reason, this Department will contact the Health Department for their recommendation (Harford County Code, Section 256.6C). If the Health Department completes a survey of the area, and recommends the area be served due to public health considerations this Department may proceed with the petition. If the Health Department does not complete a survey of the area, the property owners will be notified and the project file will be closed until such time that the property owners request it to be reopened.
 - B) If the majority of property owners are in favor of the project and still want the utility, a formal public hearing will be scheduled before the County Council.
7. When a petition will be brought before the County Council at a public hearing. The County Council will be requested to consider one or more of the following actions as may be appropriate;
 - A) Approval of the petition.
 - B) Transfer of funding and appropriation to create a capital project.
 - C) Revision of the Water and Sewer Master Plan.

8. If they find the petition in order, during the legislation session they will vote to authorize the funding and construction for the project. The property owners will then be notified as to when construction will begin.
9. Council authorization of funding will be based upon the preliminary estimate by engineering staff. The estimated project cost will be updated when project design is nearing completion. If the estimated project cost exceeds available funding prior to award of construction contracts, the contracts shall not be awarded unless the County Council approves a fund transfer for supplemental funding. This Department will notify all affected property owners of associated revised costs.
10. If the County Council does not find the petition in order, during the legislative session they will vote to not authorize the funding for the project. The property owners will then be notified as to the outcome and the file will be closed.

PART 25 - WATER AND SEWER DESIGN GUIDELINES – Revised 05/06

The Water and Sewer Design Guidelines of Harford County, Maryland are incorporated into the General Rules and Regulations as of January 29, 1992.

PART 26 - WATER & SEWER SPECIFICATIONS & DETAILS

The current Water & Sewer Specifications and Details of Harford County, Maryland are incorporated into the Rules and Regulations as of January 29, 1992.

PART 27 – APPROVED LIST OF SUPPLIERS AND MATERIALS FOR WATER AND SEWER CONSTRUCTION

The current Approved List of Suppliers and Materials for Water and Sewer Construction of Harford County, Maryland are incorporated into the Rules and Regulations as of January 29, 1992.

PART 28 – APPROVED CERTIFICATION FOR CONTRACTORS/VENDORS

The current Approved Certification for Contractors/Vendors of Harford County, Maryland is incorporated into the Rules and Regulations as of November 10, 2014.