

STANDARD FORMS AND NOTES
GOOCHLAND COUNTY, VIRGINIA
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COUNTY OF GOOCHLAND
DEPARTMENT OF PUBLIC UTILITIES
ENGINEERING REPORT

PROJECT _____
LOCATION _____ SPS (BASIN) N/A
USE _____ ACREAGE _____
EQUIVALENT POPULATION _____ POPULATION DENSITY _____
IS PROJECT PHASED YES NO (circle one)
IF YES, THEN OVERALL PLAN IS REQUIRED AND SHOULD BE ATTACHED.

SANITARY SEWER DESIGN:

DESIGN BASIS _____ SOURCE _____
NUMBER OF UNITS _____
AVERAGE DESIGN FLOW (ON-SITE) _____
OFF-SITE FLOW CONTRIBUTION (AVERAGE) _____
AVERAGE DESIGN FLOW (TOTAL) _____
PEAK FLOW _____ PEAKING FACTOR _____
DOWNSTREAM MH: SEWER SHEET N/A MANHOLE NUMBER N/A
ATTACH FLOW ANALYSIS CALCULATIONS
ATTACH SEWER DESIGN FORM (FORM F-4)
ATTACH SYSTEM LAYOUT MAP

WATER SYSTEM DESIGN:

DESIGN BASIS _____ SOURCE _____
NUMBER OF UNITS _____
AVERAGE DESIGN FLOW (ON-SITE) _____
ATTACH FLOW DEMAND ANALYSIS CALCULATIONS
ATTACH HYDRAULIC CALCULATIONS
ATTACH SYSTEM LAYOUT MAP

SEWAGE PUMPING STATIONS AND FORCE MAINS:

A MEETING WITH THE DPU DESIGN DIVISION IS REQUIRED TO DETERMINE THE REQUIREMENTS FOR ASSESSMENT OF THE SERVICE AREA AND SCOPE OF THIS ENGINEERING REPORT.

CERTIFICATION:

I HEREBY CERTIFY THAT THIS ENGINEERING REPORT AND ATTACHED CALCULATIONS HAVE BEEN PREPARED BY ME OR UNDER MY DIRECT SUPERVISION.

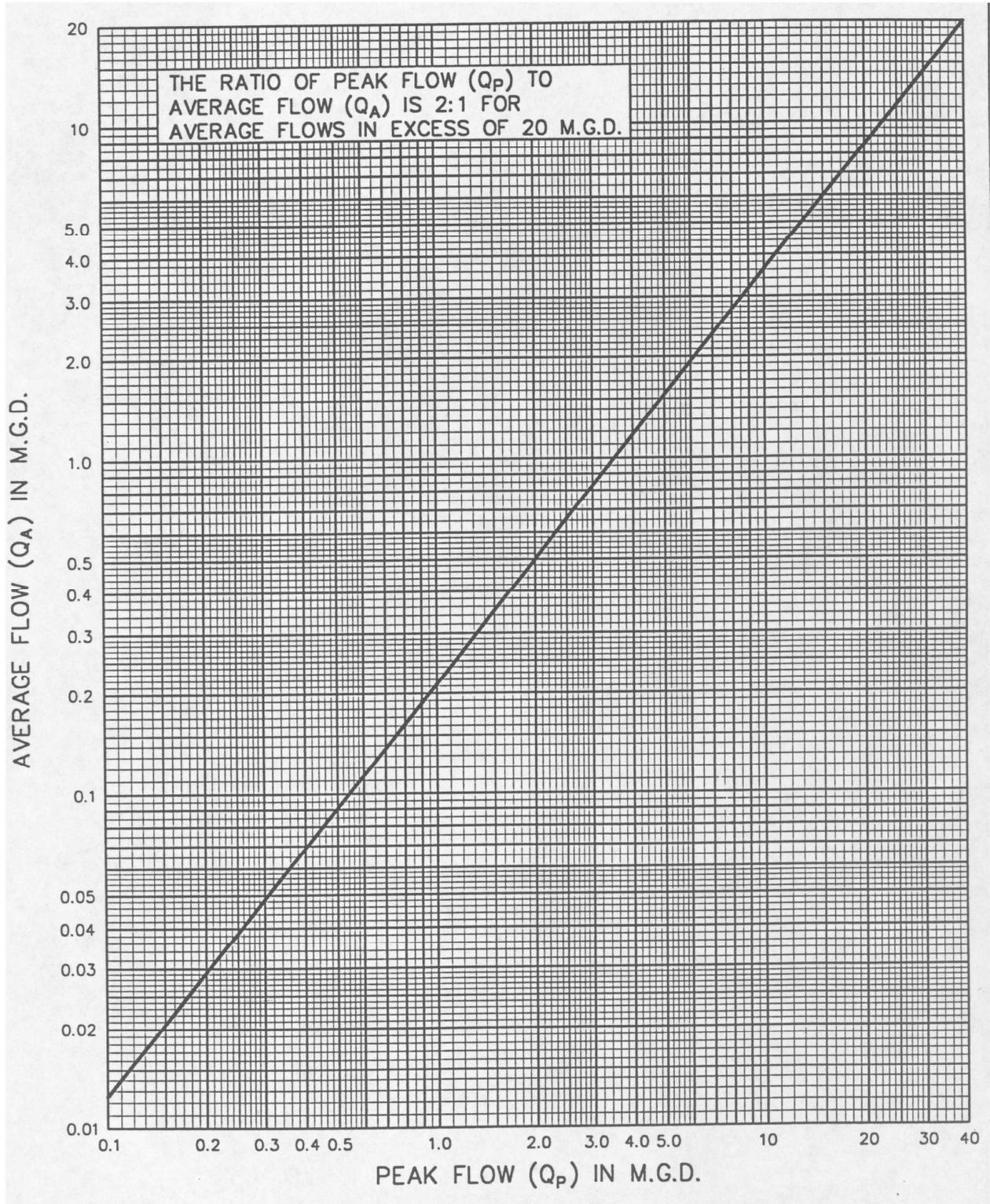
signature

certificate number

name typed or printed

date

COUNTY OF GOOCHLAND
DEPARTMENT OF PUBLIC UTILITIES



REVISIONS

CHART SHOWING
RELATION OF AVERAGE FLOW TO PEAK FLOW
FOR SANITARY SEWER DESIGN

FORM NO.

F-2

COUNTY OF GOOCHLAND
DEPARTMENT OF PUBLIC UTILITIES

OWNER: _____
DEED BOOK: _____ PAGE: _____
PARCEL NO. _____

PERMANENT EASEMENT _____ ACRES
CONSTRUCTION EASEMENT _____ ACRES

PLAT SHOWING THE LOCATION OF EASEMENTS FOR UTILITIES
TO BE ACQUIRED THROUGH THE PROPERTY OF _____

IN THE _____ MAGISTERIAL DISTRICT,
COUNTY OF GOOCHLAND, VIRGINIA.

SCALE: _____ DATE: _____

<p>ENGINEER (FIRM NAME) ENGINEER'S COMMISSION NO. _____</p>	<p>COUNTY PROJECT NO. _____ PLAT NUMBER _____ GPIN _____ SHEET _____ OF _____ RECORDED _____ P.B. _____ PAGE _____</p>
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Dimensions: 14" OR 27" (total height), 1.4" (top margin), 12.2" OR 25.2" (main height), 0.4" (bottom margin), 3.85" (width of each side), 8.5" (total width), 0.4" (right margin).

REVISIONS

EASEMENT PLAT LAYOUT

FORM NO.

F-3

DEPARTMENT OF PUBLIC UTILITIES
COUNTY OF GOOCHLAND, VIRGINIA

UTILITIES INFORMATION SHEET FOR LEGAL AGREEMENT
FOR COUNTY: _____ WATER _____ SEWER
(Please type or Print)

1. NAME OF PROJECT: _____
2. AGENT'S NAME: _____ Phone () _____
Address: _____ Zip _____
Fax # _____ Email _____
3. PROPERTY OWNER: _____ Phone () _____
Address: _____ Zip _____
4. ATTACH COPY OF DEED (DEED BOOK & PAGE NO. SHALL BE CLEARLY SHOWN)
5. PROPERTY IDENTIFICATION (AS SHOWN ON COUNTY TAX MAPS)

6. ENCLOSE SEVEN (7) COPIES OF THE PROPERTY BOUNDARY DRAWING, NO LARGER THAN 24" BY 16"
7. ACREAGE: _____ acres
8. IF ONLY A PART OF THE ACREAGE IN NO. 7 WILL BE DEVELOPED AT THIS TIME THEN _____ ACRES WILL BE DEVELOPED AS PHASE _____ OR SECTION _____.
9. MAGISTERIAL DISTRICT: _____
10. THE FOLLOWING WILL BE CONSTRUCTED:

RESIDENTIAL:

_____ Single Family: _____ # Subdivision Lots on _____ acres will be developed as follows: Lot No. _____ thru _____ inclusive, Block _____; Lot No. _____ thru _____ inclusive, Block _____; Lot No. _____ thru _____ inclusive, Block _____;	_____ Multi-Family: _____ Townhouse, # lots _____ _____ Condominium _____ # of structure _____ units per structure _____ Apartments _____ total units, _____ clubhouse
--	--

COMMERCIAL:

_____ Office, type _____ _____ Restaurant _____ Motel/Hotel _____ # rooms _____ restaurant _____ manager's apt.	_____ Hospital _____ # beds _____ Nursing homes _____ # beds _____ Dormitories _____ # beds _____ Other _____
--	--

INDUSTRIAL:

Describe the type of industry: _____

Will there be manufacturing? If so specify: _____

11. If this is a nursing home or dormitory include the following:
Is this a facility providing permanent housing for elderly or handicapped persons and operated by charitable, nonstock, nonprofit organizations which are exempted by section 501(c)(3) of the Internal Revenue Code? If so, provide a copy of that documentation and approval by the Internal Revenue Service.
_____ # dwelling units

12. **SIGNATURE PAGE INFORMATION:**
(Submit a copy of your signature page and notary clauses)

A. Specify the business type, (ex. corporation, limited partnership, general partnership, limited liability company) _____

B. State the names and titles of the legally authorized persons to sign the agreements below:

Name	Title
_____	_____
_____	_____

If corporation, state the attesting name and title	
Name	Title
_____	_____

C. This business was organized in the State of _____ .

D. Is this business authorized to do business in the State of Virginia? _____ Yes _____ No

13. **PLEASE MAIL THIS AGREEMENT TO THE ADDRESS BELOW:**

14. *I certify that the above information is true and correct.*
Signed: _____ (Owner/Agent) Date: _____

Faxed or emailed information sheets will not be accepted.
For questions please contact the County Engineer.
Submit completed application with the required attachments to:

Goochland County
Department of Public Utilities
P.O. Box 119
Goochland, VA 23063

**DEPARTMENT OF PUBLIC UTILITIES
COUNTY OF GOOCHLAND, VIRGINIA**

**Guidelines for Completing the
Utilities Information Sheet For Legal Agreement**

The County uses this Information Sheet to prepare the Water and Sewer Agreements for execution by the Owner and the County. When the Agreements are executed, the Clerk of the Court records them. The Agreements shall be executed before water and sanitary sewer construction plans will be approved.

Check or Circle County Water and/or Sewer to indicate desired connection to system.

1. The **NAME OF PROJECT** is the title shown on the water and sanitary sewer utility plan.
2. **AGENT'S NAME** is the contact person completing the information sheet and who will be contacted when additional information is needed. The Agent's telephone number, address, zip code, facsimile number and email address shall be included.
3. **PROPERTY OWNER** is (are) the name(s) of the property Owner(s) as shown in the Deed (of Trust). **Enclose copy of Deed (of Trust)**. Include **Phone Number** (Complete Telephone Number of Property Owner); **Address & Zip Code** (Complete mailing address of the Property Owner where County will send the executed agreement).
4. **Attach** a copy of the **DEED (of Trust) with this completed Information Sheet** that clearly shows the Deed Book and Page Number
5. **PROPERTY IDENTIFICATION** shall be the identification number shown on the Goochland County Tax Map for the property included in the Deed of Trust.
6. **ENCLOSE 7 COPIES OF PROPERTY BOUNDARY DRAWING.** This is a map or plat of the property to be included in the Agreement and shall clearly show the acreage, distances, bearings, reference to an intersection, and north arrow. This drawing shall include the required information but does not need to be surveyed or recorded. This drawing will be attached to and recorded with the agreements and shall be no larger than 16 inches by 24 inches.
7. This is the **ACREAGE** to be included in the agreement. If the Owner plans to develop the property in pieces/sections/phases, then the total acreage of the parcel(s) is shown in this item.
8. **IF ONLY A PART OF THE OVERALL ACREAGE SHOWN IN ITEM 7 IS TO BE DEVELOPED AT THIS TIME THEN** (Indicate the actual acreage for which service is to be provided at this time). **ACRES WILL BE DEVELOPED AS PHASE** (Show the phase designation) or **SECTION** (or the section designation).
9. **MAGISTERIAL DISTRICTS** (the district where the property is located.)
10. Provide information on how the site will be developed.
 - a) For residential projects include the required information for either single family or multi-family type construction.
 - b) For commercial projects indicate the type of development proposed. For nursing homes or dormitories, complete item 11 on the Information Sheet.
 - c) For industrial projects describe the type of industry and specify any manufacturing processes to be located at this facility.

11. If a nursing home or dormitory is proposed and if Section 501(c)(3) of the Internal Revenue Code is applicable then provide a copy of the documentation and approval from the Internal Revenue Service.
12. The appropriate signatures and notary clauses are required for execution of the Agreement. Either complete Item 12 or submit a copy of your signature page and notary clauses. Failure to submit complete or correct information will result in delays in completing and executing the required Water and Sewer Agreements. An executed Agreement is required before Water and Sewer Plans can be approved for construction.
13. The County will mail the Water and Sewer Agreements to the address indicated. The individual signing this certification is the person who will be contacted if additional information is needed. Indicate whether it is the "Owner" or "Agent" who is submitting this Information Sheet.

Helpful Hints

1. If there is a need to erase, cross out, or add any information to a preprinted form, the persons who sign the document must also initial each change on all documents.
2. If a church, all trustees for the church must sign and signatures be notarized.
3. If a corporation, two corporate officers of that corporation are required to sign and signatures be notarized.

Submit the completed application with the required attachments to:
Goochland County
Department of Public Utilities
P.O. Box 119
Goochland, VA 23063

Faxed or emailed information sheets and attachments will not be accepted.

For questions about this information sheet please contact the County Engineer.

**COUNTY OF GOOCHLAND
DEPARTMENT OF PUBLIC UTILITIES
REVIEW CHECKLIST FOR WATER AND SEWER PLANS**

Project Title

- ___ 1. Virginia registered engineer's stamp, signature, and date. (See Sections 14-37 and 14-127 of Goochland County Code).
- ___ 2. Engineering Report including a System Layout Map has been submitted. (Not required for minor extensions as defined by Paragraph 1.1.2.D).
- ___ 3. Water System is designed to provide adequate domestic service and fire protection to owner's property. _____" diameter line is required to adequately serve this project in accord with County Standards.
 - a. Average Domestic Design Flow _____
 - b. Peak Hour Domestic Flow _____
 - c. Design Fire Flow _____
 - d. Total Design Peak Flow _____
 - e. Residual Pressure at Total Design Peak Flow (last hydrant) _____
- ___ 4. Sanitary Sewer Service area map is submitted with plans. Sanitary Sewer Analysis is shown on sewer shed map. _____" diameter line is required to adequately serve this project in accordance with County Standards.
 - a. Average Design Flow _____
 - b. Equivalent Residential Units _____
- N/A 5. Information Sheet for Preparation of Water and Sewer Agreements has been submitted.
- ___ 6. Application for Discharge is submitted for non-residential projects. Plan includes location and details for grease trap, monitoring manhole or other devices required by County Standards.
- ___ 7. This is a phased project. Overall water and sewer plans have been submitted for approval with fire hydrants and valve locations shown.
- ___ 8. Plan and profile sheets are on 24"x36" paper. Drawing organization and format comply with Paragraph 1.2.
- ___ 9. A Cover Sheet is provided that includes the Owner/Developer name and address, project vicinity map, and Standard Water and Sewer Notes.
- ___ 10. The sewer plans include stationing, pipe size, material, bearings, direction of flow, deflection angles, grade and distance between centerline of manholes. Benchmarks are shown every 500 feet.
- ___ 11. Domestic water meter calculations are shown on plans where applicable in accord with AWWA Manual M-22.
- ___ 12. ISO Fire Flow computations are shown on plans (where applicable).
- ___ 13. All sanitary sewers are profiled. Crossings with other utilities are shown and conflicts are resolved.
- ___ 14. All water mains 8" and larger are profiled. Where water mains of any size cross other utilities, these crossings are profiled, and the means for crossing and resolving any conflicts are clearly shown.
- ___ 15. Any and all existing sewer and water connections to the property are shown on the plans.
- ___ 16. All proposed water and sewer lines connect to existing water and sewer lines that have been previously accepted by the County for operations and maintenance.
- ___ 17. All off-site easements necessary for the completion of this project have been acquired, recorded and their Deed Book and Page references are shown on the plans.
- ___ 18. A list of approximate Materials Quantities to be used and the latest Material Notes are shown on the plans.
- ___ 19. A Backflow Prevention Device is provided on domestic and fire service connections in accordance with Part II, Article 3 of the Commonwealth of Virginia, State Board of Health Waterworks Regulations and the County Standards.
- ___ 20. Plans comply with all applicable Local, State and Federal regulations including County and State erosion control ordinances and application has been made for all required permits.

I have reviewed this Checklist for accuracy and hereby certify that the water and/or sewer plans as submitted have been designed in accord with the latest County Standards, Waterworks Regulations and Sewerage Regulations (whichever is more restrictive). The plans have been reviewed for completeness and accuracy and are herewith submitted for approval.

P.E.
Signature

Certificate Number

Named Typed or Printed

Date

**COUNTY OF GOOCHLAND
DEPARTMENT OF PUBLIC UTILITIES
DOMESTIC METER SIZING FORM**

Project Name: _____
 Address: _____
 Parcel No.: _____ or _____
 Subdivision: _____ Lot No. _____ Blk. No. _____
 Type of Occupancy: _____

Fixture	Fixture Value 35 psi	No. of Fixtures	=	Fixture Value
Bathub	8	x	_____	_____
Bedpan Washers	10	x	_____	_____
Combination Sink and Tray	3	x	_____	_____
Dental Unit	1	x	_____	_____
Dental Lavatory	2	x	_____	_____
Drinking Fountain - Cooler	1	x	_____	_____
- Public	2	x	_____	_____
Kitchen Sink - 1/2" Connection	3	x	_____	_____
- 3/4" Connection	7	x	_____	_____
Lavatory - 3/8" Connection	2	x	_____	_____
- 1/2" Connection	4	x	_____	_____
Laundry Tray - 1/2" Connection	3	x	_____	_____
- 3/4" Connection	7	x	_____	_____
Shower Head (Shower Only)	4	x	_____	_____
Service Sink - 1/2" Connection	3	x	_____	_____
- 3/4" Connection	7	x	_____	_____
Urinal - Pedestal Flush Valve	35	x	_____	_____
- Wall Flush Valve	12	x	_____	_____
- Trough (2 Ft. Unit)	2	x	_____	_____
Wash Sink (Each Set of Faucets)	4	x	_____	_____
Water Closet - Flush Valve	35	x	_____	_____
- Tank Type	3	x	_____	_____
Dishwasher - 1/2" Connection	4	x	_____	_____
- 3/4" Connection	10	x	_____	_____
Washing Machine - 1/2" Connection	5	x	_____	_____
- 3/4" Connection	12	x	_____	_____
- 1" Connection	25	x	_____	_____
Hose Connection (Wash Down) - 1/2"	6	x	_____	_____
- 3/4"	10	x	_____	_____
Combined Fixture Value Total				_____
Maximum Demand				_____ GPM
Meter Size				_____

I certify that the above information is true and correct.

Signature: _____

**COUNTY OF GOOCHLAND
DEPARTMENT OF PUBLIC UTILITIES
FIRE FLOW ESTIMATE FORM**

ISO (Insurance Service Office) Method of Calculating NFF (Needed Fire Flow)

ENGINEER: _____ DATE: _____

PROJECT NAME: _____ CALC. BY: _____

TYPE OF CONSTRUCTION: _____

GROUND FLOOR AREA = _____ Class of Construction Coef. = F : _____
of Stories _____

Total Floor Area = A_i (effective area): _____

FIRE AREA CONSIDERED

Construction Factor $C_i = 18(F)(A_i)^{0.5}$ $C_i =$ _____
(ROUNDED TO THE NEAREST 250 GPM)

TYPE OF OCCUPANCY: _____

(Worst Case) Occupancy Factor = O_i : _____

EXPOSURE (X) AND COMMUNICATION (P):

$X_1 + P_1 =$ _____ $X_4 + P_4 =$ _____
 $X_2 + P_2 =$ _____ $X_5 + P_5 =$ _____
 $X_3 + P_3 =$ _____ $X_6 + P_6 =$ _____

$$(X+P)_i = 1.0 + \sum_{(i=1)}^n (X_i + P_i) =$$

[Max. $(X + P)_i = 1.75$]
(n = NUMBER OF SIDES OF SUBJECT BUILDING)

NEEDED FIRE FLOW

$NFF = (C_i)(O_i)(X+P)_i$ $NFF =$ _____

Automatic Sprinklers (Yes _____ No _____) Reduction Factor _____% x NFF = _____

TOTAL: _____

Required Fire Flow – Rounded (gpm) _____
(if < 2500, nearest 250)
(if > 2500, nearest 500)

* Fire Hydrants Required: _____

I CERTIFY THAT THE ABOVE INFORMATION IS TRUE AND CORRECT.

SIGNATURE: _____ **P.E.**

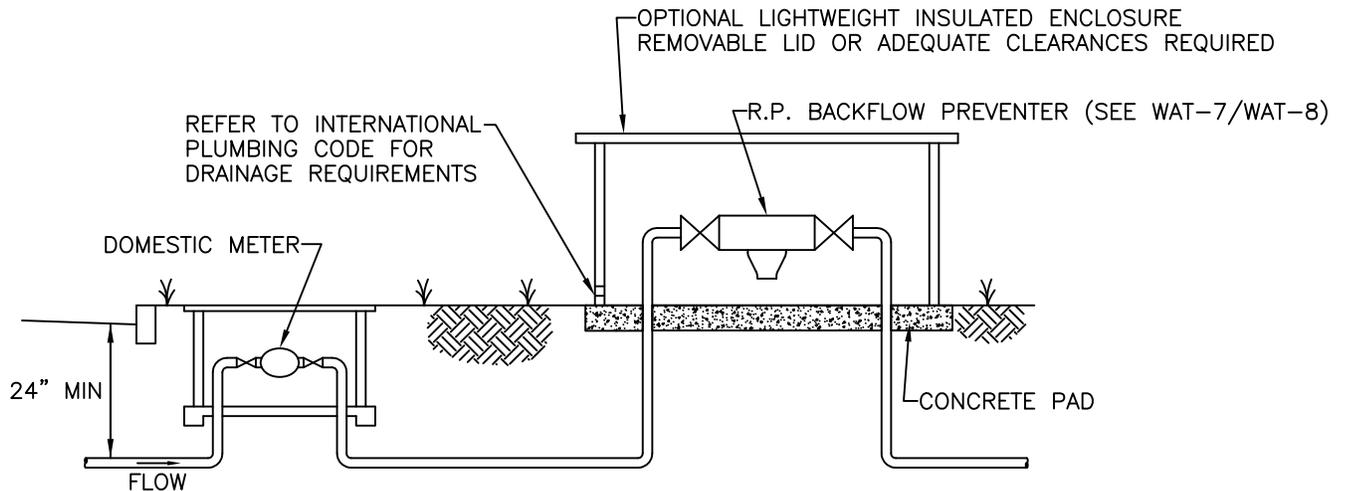
* COMMERCIAL AREA REQUIRES 350 FEET MAXIMUM HOSE LAY.

References: NFF calculation procedure described in AWWA M-31, ISO's 1980 Commercial Fire Rating Schedule and ISO's 1980 Fire Suppression Rating Schedule.

**COUNTY OF GOOCHLAND
DEPARTMENT OF PUBLIC UTILITIES
WATER AND SEWER NOTES**

1. All construction, materials and installation shall conform to the latest edition of Standards, Department of Public Utilities, Goochland County, Virginia.
2. Contractor shall be responsible for notifying the County Engineer and scheduling a pre-construction meeting at least 48 hours prior to starting any work on this project. All work shall be subject to inspection. The contractor shall obtain all necessary permits.
3. The contractor shall include in applicable bid price, the cost of locating and uncovering all sewer manholes and valve boxes after surface treatment of roads and to adjust them to the final road grades, if necessary. The contractor shall also be responsible for cleaning out sewer mains for final inspection, if necessary.
4. Contractor shall verify location and elevation of all underground utilities. The location of existing utilities across or along the line of the proposed work is not necessarily shown on the plans and where shown is only approximately correct. The contractor shall, on his own initiative and at no extra cost, locate all underground lines and structures as necessary. No claims for damages or extra compensation shall accrue to the contractor from the presence of such pipe obstructions or from any delay due to removal or rearrangement of the same. The contractor shall be responsible for any damage to underground structures.
5. Contractor shall call "Miss Utility" toll free at 1-800-552-7001 prior to construction.
6. Datum for all elevations shown is National Geodetic Survey.
7. Minimum cover over top of water pipe shall be 3.50 feet.
8. Service saddles must be used on all water connections to PVC mains.
9. Fire hydrants shall be installed in accordance with Standard Drawing D-200.
10. Engineer shall certify that unpaved streets are to subgrade prior to Contractor installing water system. Curb and gutter, if required, shall be installed prior to acceptance of water system by County.
11. No structures or planting of trees shall be permitted in utility easements.
12. Vandalproof covers shall be used on all manholes in easements. Watertight covers shall be used in flood plains. The manhole covers shall be in accordance with Standard Drawings D-111 and D-112.
13. Final Acceptance by County shall not be made until all work shown on approved utility plans is completed including paving, grading and all required adjustments.
14. A Wetlands Permit may be required from the U.S. Army Corps of Engineers for this project. For information concerning such requirement, contact the Corps at (804) 462-5382.
15. The Department will inspect all water and sanitary sewer mains, connections and appurtenances thereto, as shown on the approved utility plans, located within dedicated easements and/or Public Rights-of-Way. All other lines to be installed on site to serve roof drainage, water supply and sanitary sewers shall be approved by the Department of Building Inspections prior to installation and shall be inspected by Building Inspections before covering.
16. Concurrent inspections by Building Inspections and County Engineer will be performed for the following: Mainline backflow preventers; monitoring manholes; grease traps; exclusion meters; irrigation meters. County Engineer will inspect to ensure that the proper type facility, as shown on the approved utility plans, has been installed and tested in accordance with DPU Standards.

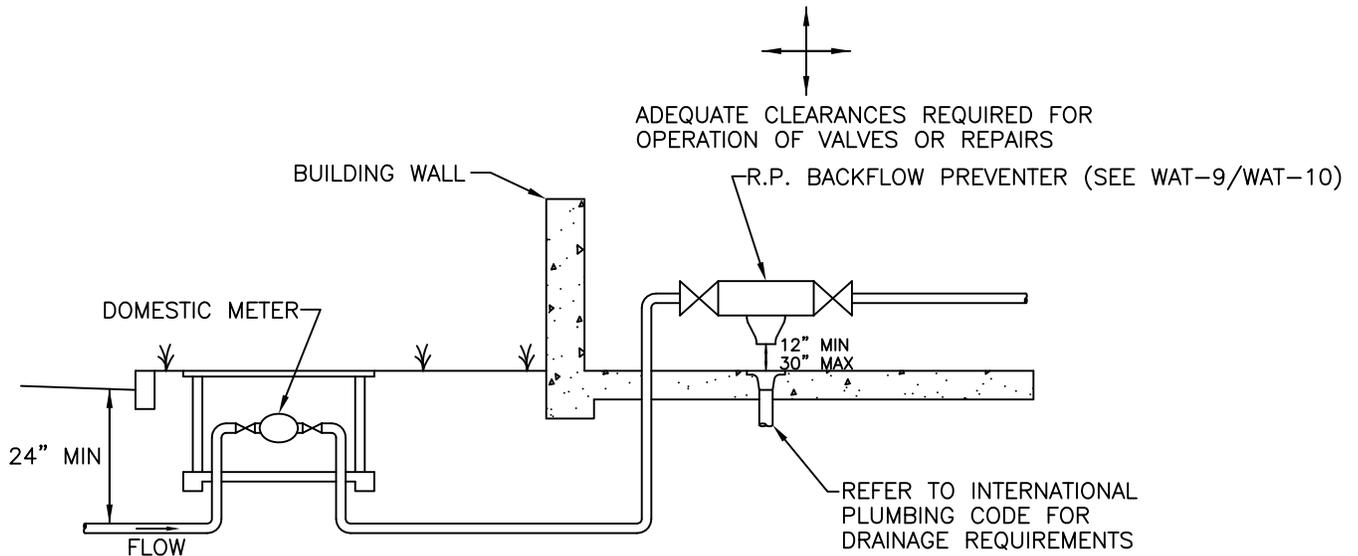
TYPICAL OUTSIDE INSTALLATION
REDUCED PRESSURE BACKFLOW PREVENTER
MAIN LINE DEVICE WITH DOMESTIC METER



PROCEDURE FOR DOMESTIC METERS
WHEN BACKFLOW PREVENTION IS REQUIRED

1. Submit plans to County Engineer sealed and signed by a Professional Engineer for approval.
2. Apply for a plumbing permit from County of Goochland, Department of Building Inspections.
3. Install piping and backflow preventer, including brass male test cock adapters – (4) straight hose adapter fittings, 1/4" SAE 45 flare tube x 1/4" NPT, for connection to test device. Backflow prevention devices will be installed at the water service connection after the domestic meter. Refer to approved DPU plans for typical installation details. No tap-ins will be permitted for any purpose between meter and backflow device.
4. Meter box and yoke in accordance with County of Goochland DPU Standards to be installed by the Contractor. The domestic meter will be installed by the County of Goochland DPU.
5. Call Building Inspections at 556-5815 for inspection of the backflow preventer. Inspection and approval is required before the domestic meter is installed.
6. Call Building Inspections at 556-5815 for inspection of all piping and plumbing work downstream of the domestic meter.
7. Owner to pay basic connection fee at the Department of Public Utilities Office. Fee must be paid for domestic meter before the meter can be installed.
8. Freeze protection is required. Recommended options are: a lightweight, insulated enclosure or installation of heat tape. All methods of freeze protection must allow accessibility to device for testing and repairs.
9. The Backflow Prevention Assembly's shutoff valves shall be the ones approved by the manufacturer for that Backflow Prevention Assembly.

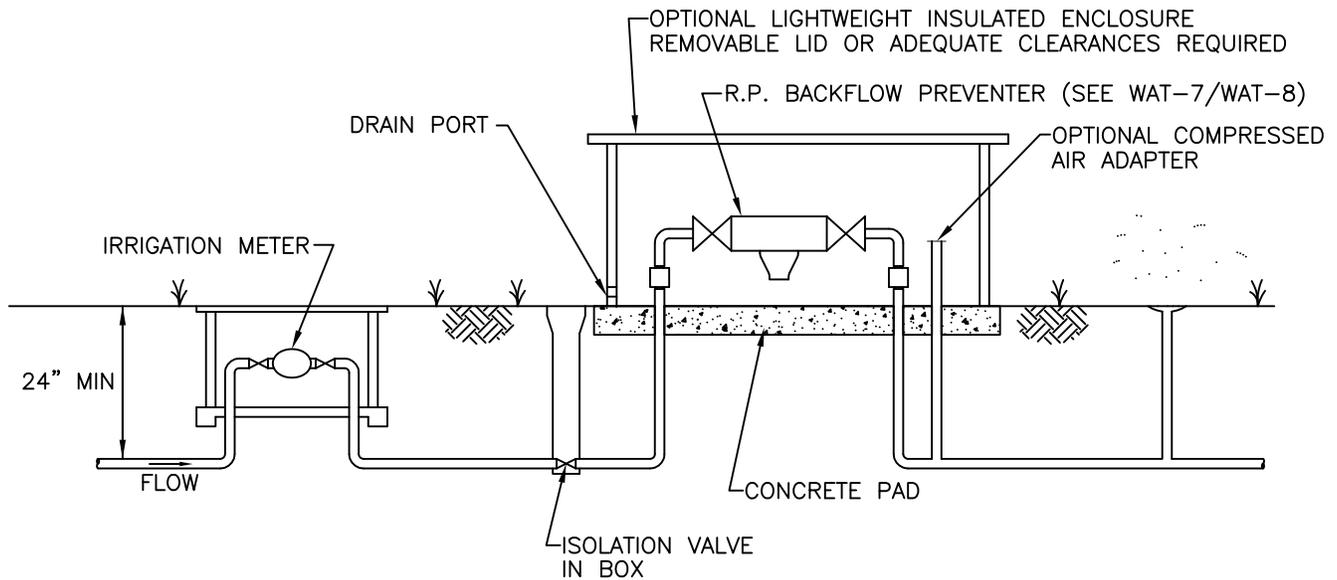
TYPICAL IN-BUILDING INSTALLATION
REDUCED PRESSURE BACKFLOW PREVENTER
MAIN LINE DEVICE WITH DOMESTIC METER



PROCEDURE FOR DOMESTIC METERS
WHEN BACKFLOW PREVENTION IS REQUIRED

1. Submit plans to County Engineer sealed and signed by a Professional Engineer for approval.
2. Apply for a plumbing permit from County of Goochland, Department of Building Inspections.
3. Install piping and backflow preventer, including brass male test cock adapters – (4) straight hose adapter fittings, 1/4" SAE 45 flare tube x 1/4" NPT, for connection to test device. Backflow prevention devices will be installed at the water service connection after the domestic meter. Refer to approved DPU plans for typical installation details. No tap-ins will be permitted for any purpose between meter and backflow device.
4. Meter box and yoke in accordance with County of Goochland DPU Standards to be installed by the Contractor. The domestic meter will be installed by the County of Goochland DPU.
5. Call Building Inspections at 556-5815 for inspection of the backflow preventer. Inspection and approval is required before the domestic meter is installed.
6. Call Building Inspections at 556-5815 for inspection of all piping and plumbing work downstream of the domestic meter.
7. Owner to pay basic connection fee at the Department of Public Utilities Office. Fee must be paid for domestic meter before the meter can be installed.
8. The Backflow Prevention Assembly's shutoff valves shall be the ones approved by the manufacturer for that Backflow Prevention Assembly.
9. Reduced Pressure Zone backflow preventer shall have a minimum clearance of 24" from wall to test cock adapters and all other clearances shall be a minimum of 12".

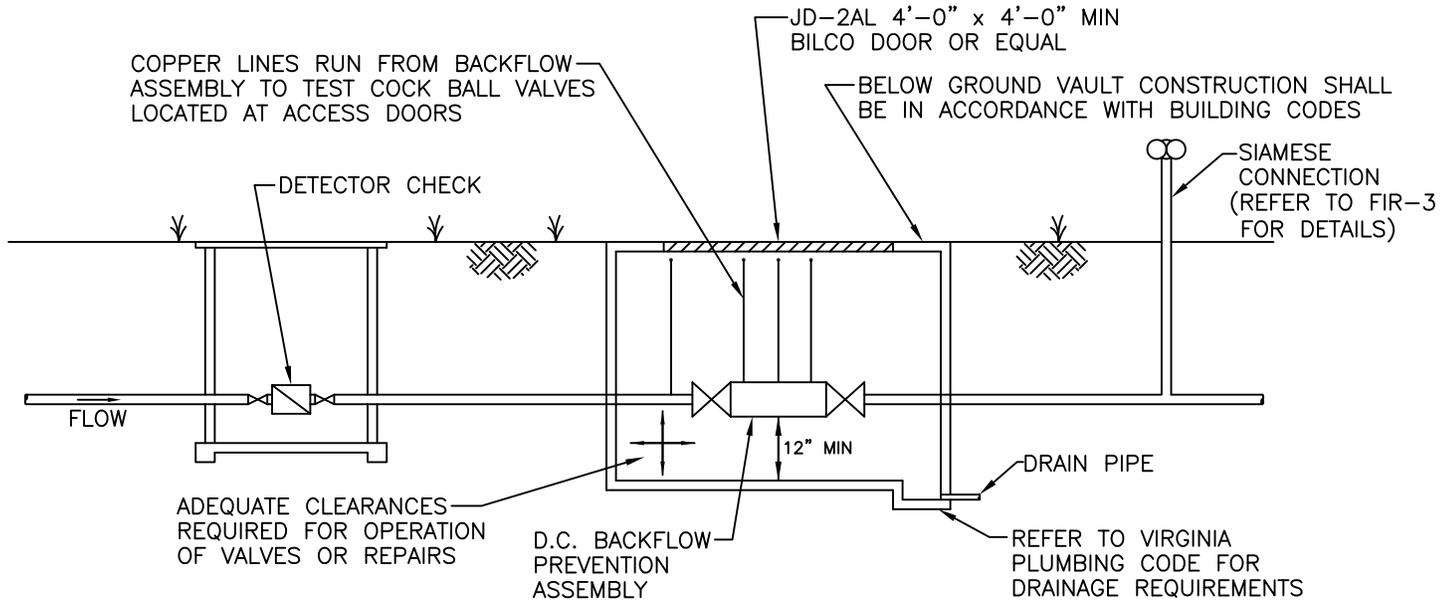
TYPICAL INSTALLATION
REDUCED PRESSURE BACKFLOW PREVENTER
IRRIGATION SYSTEM WITH IRRIGATION METER



PROCEDURE FOR IRRIGATION METERS
WHEN BACKFLOW PREVENTION IS REQUIRED

1. Submit plans to County Engineer sealed and signed by a Professional Engineer for approval.
2. Apply for a plumbing permit from County of Goochland, Department of Building Inspections.
3. Install piping and backflow preventer, including brass male test cock adapters – (4) straight hose adapter fittings, 1/4" SAE 45 flare tube x 1/4" NPT, for connection to test device. Backflow prevention devices will be installed at the water service connection after the domestic meter. Refer to approved DPU plans for typical installation details. No tap-ins will be permitted for any purpose between meter and backflow device.
4. Meter box and yoke in accordance with County of Goochland DPU Standards to be installed by the Contractor. The domestic meter will be installed by the County of Goochland DPU.
5. Call Building Inspections at 556-5815 for inspection of the backflow preventer. Inspection and approval is required before the domestic meter is installed.
6. Call Building Inspections at 556-5815 for inspection of all piping and plumbing work downstream of the domestic meter.
7. Owner to pay basic connection fee at the Department of Public Utilities Office. Fee must be paid for domestic meter before the meter can be installed.
8. Freeze protection is required. Recommended options are: a lightweight, insulated enclosure or installation of heat tape. All methods of freeze protection must allow accessibility to device for testing and repairs.
9. The optional compressed air adapter shall be installed downstream of the Reduced Pressure Zone Backflow Preventer, if provided.
10. The Backflow Prevention Assembly's shutoff valves shall be the ones approved by the manufacturer for that Backflow Prevention Assembly.

TYPICAL INSTALLATION
DOUBLE CHECK BACKFLOW PREVENTION ASSEMBLY
LOW HAZARD FIRE SYSTEM WITH DETECTOR CHECK



PROCEDURE FOR FIRE SYSTEMS
WHEN BACKFLOW PREVENTION IS REQUIRED

1. Submit plans to County Engineer sealed and signed by a Professional Engineer for approval.
2. Apply for a plumbing permit from County of Goochland, Department of Building Inspections.
3. Install piping and backflow preventer, including brass male test cock adapters – (4) straight hose adapter fittings, 1/4" SAE 45 flare tube x 1/4" NPT, for connection to test device. Backflow prevention devices will be installed at the water service connection after the domestic meter. Refer to approved DPU plans for typical installation details. No tap-ins will be permitted for any purpose between meter and backflow device.
4. Call Building Inspections at 556-5815 for inspection of the backflow preventer.
5. All fire system Backflow Prevention requirements shall be met before the domestic meter will be installed.
6. Call Building Inspections at 556-5815 for inspection from the detector check through the internal fire system.
7. Owner to pay basic connection fee at the Department of Public Utilities Office.
8. The Backflow Prevention Assembly's shutoff valves shall be the ones approved by the manufacturer for that Backflow Prevention Assembly. Also, the shutoff valves shall meet fire code standards.
9. As an option, the Contractor may install the siamese connection in the same vault as the Double Check Backflow Prevention Assembly and extend the siamese riser through the top of the vault.

**COUNTY OF GOOCHLAND
DEPARTMENT OF PUBLIC UTILITIES
EROSION CONTROL NOTES**

1. It shall be the Developer's responsibility to inspect all erosion control devices periodically and after every erodable rainfall. Any necessary repairs or cleanup to maintain the effectiveness of the erosion control devices shall be made immediately.
2. No disturbed area will be denuded for more than 30 calendar days.
3. All erosion and siltation measures are to be placed prior to or as the first step in clearing and grading.
4. All storm and sanitary sewer lines not in streets are to be mulched and seeded immediately after backfill. No more than five hundred feet are to be open at one time.
5. Electric power, telephone, and gas supply trenches are to be compacted, seeded and mulched immediately after backfill.
6. All temporary earth berms, diversions, and silt dams are to be mulched and seeded for vegetative cover immediately after grading. Straw or hay mulch is required. The same applies to all soil stockpiles on site as well as soil (intentionally) transported from the project site.
7. During construction, all storm sewer inlets will be protected by silt traps, maintained and modified as required by construction progress.
8. Any disturbed area not paved, sodded, or built upon by November 1st, is to be seeded on that date with oats, abruzzi, rye or equivalent and mulched with hay or straw mulch. Modify as applicable depending on proposed time of construction.
9. Temporary seeding will be applied within seven days to denuded areas that may not be at final grade, but will remain dormant (undisturbed) for longer than thirty days. For temporary seeding use fifty percent of all the recommended rates of fertilizer and lime, and full amounts of seed and mulch required for regular seeding.
10. All erosion control devices must be installed and maintained in accordance with the latest edition of the Virginia Erosion and Sediment Control Handbook.
11. If during construction, additional erosion control devices are found necessary, they shall be installed as directed by the County Engineer.

**COUNTY OF GOOCHLAND
DEPARTMENT OF PUBLIC UTILITIES**

Notification of Intent to Discharge to Sanitary Sewer

The following information is required with the submission of Utility Plans for a Plan of Development and/or Building Permit. It is intended to provide additional information to expedite the review and approval of construction drawings. **Accurate and complete information is required.**

General Information			
Project Name:			
Street Address:			
Mailing Address:			
Contact Person:		Telephone:	
Title:		e-mail:	
Existing Discharge:	(✓One) YES ___ NO ___	Account #	
Discharge to Begin:	(Give Approximate Date)		
SIC CODE(S) or NAICS CODE(S):	Standard Industrial Classification Code, or North American Industry Classification Code, where known: N/A		

Describe the Specific Nature of the Business or Reason for Altering Existing Discharge
Will the Discharge be from Restrooms Only? (✓One) YES ___ NO ___

**IF THE DISCHARGE IS FROM RESTROOMS ONLY, STOP HERE AND SIGN FORM
OTHERWISE CONTINUE WITH PAGE TWO**

I certify that the information provided is true and represents, to the best of my knowledge, the information requested. I also acknowledge that I am qualified to make this certification.

Name	Title	Date
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**COUNTY OF GOOCHLAND
DEPARTMENT OF PUBLIC UTILITIES**

Notification of Intent to Discharge to Sanitary Sewer

Describe the Process(es) that will Result in the Discharge of Non-Domestic Wastewater

List All Chemicals/Pollutants that may be, or have the potential to be, in the proposed Discharge

Describe any Wastewater Pretreatment Methods/Facilities/Devices to be used
Examples: Grease Traps or Interceptors, Oil/Water Separators, Neutralization Tanks, Chemical Precipitation

	Existing Discharge (GPD)	Proposed Discharge (GPD)
Restrooms (Domestic)		
Non-Domestic		
Cooling Tower		

I certify that the information provided is true and represents, to the best of my knowledge, the information requested. I also acknowledge that I am qualified to make this certification.

Name	Title	Date
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Guidance and Instructions for Completing NOI Form

The purpose of the Notice of Intent form is to provide information to the County regarding the nature of wastes that may be discharged into the sanitary sewer. All commercial and industrial customers connected to the sanitary sewer are subject to the local discharge limitations established in Section 14-125 of the County Code. Additionally, a surcharge for strong wastes may be applied to the customer's water/sewer bill. By knowing the nature of the wastes during the design phase, problems with violations of the code and excessive strong waste charges can be reduced.

The following information is provided with the intent of facilitating the completion of the Notice of Intent form. Complete and accurate information will minimize any delays in the plan approval process.

1. Project Name should be consistent with the name shown on the construction drawings or Building Permit application under review.
2. Street Address refers to the actual location of the project in Goochland County.
3. Existing Discharge/Account # refers to an existing water/sewer account used for billing. If the proposed discharge is an addition to a master metered account, please include that account number.
4. SIC codes, or Standard Industrial Classification codes, are 4-digit codes established by the Office of Management and Budget. They have now been replaced by the 6-digit NAICS Codes, or North American Industry Classification System. If you know your SIC code, or your NAICS code, and most industries are aware of them, provide it at the location specified, otherwise, leave it blank.
5. The section asking for the Specific Nature of the Business is very important. Knowing the nature of the business will facilitate the determination of potential impact on the sewer. Single references to "retail," "manufacturing," or "service company" should be avoided. Instead, describe the business as "convenience store and carwash," "Office/warehouse space for future tenants," "fast food restaurant," or "office building with cafeteria."
6. If the project will result in a discharge from restrooms only, such as an office building without a cafeteria or retail sales store, so indicate, sign the form and return it to the County. Otherwise, complete page two. The form will be returned if incomplete, therefore, all spaces that are "not applicable" should be marked "N/A."
7. Page two of the NOI form is to be completed where there will be a discharge of wastewater **other than from restrooms**. Service stations with oil/water separators, car washes, restaurants, water purification companies with resin generation facilities, chemical mixing or printing companies are just a few examples of businesses that generate wastes other than restroom wastes.

If you have any questions pertaining to the completion of this form please contact the County Engineer.