



# SUSSEX COUNTY ENGINEERING PLAN SUBMISSION FORM

Project Name: \_\_\_\_\_ Date: \_\_\_\_\_

Project Description: \_\_\_\_\_

Location: \_\_\_\_\_

Number of Building Lots/Units: \_\_\_\_\_

Total Feet of Forcemain: \_\_\_\_\_

Commercial Units: \_\_\_\_\_

District: \_\_\_\_\_ Map: \_\_\_\_\_ Parcel: \_\_\_\_\_

Review Fee Amount: (Roads) \$ \_\_\_\_\_ (Sanitary Sewer and/or Water) \$ \_\_\_\_\_  
*(Separate checks for Roads and Sewer are required)*

Planning & Zoning Development Approval:

Subdivision No.: \_\_\_\_\_

RPC, Change of Zone Ordinance No.: \_\_\_\_\_

Conditional Use Ordinance No.: \_\_\_\_\_

Commercial Site Plan: \_\_\_\_\_

Zoning Designation: \_\_\_\_\_

Approval Date: \_\_\_\_\_

Approval Date: \_\_\_\_\_

Approval Date: \_\_\_\_\_

ie; AR-1, MR, HR

Ownership:

Sewer: Public \_\_\_\_\_ Private \_\_\_\_\_

Water: Public \_\_\_\_\_ Private \_\_\_\_\_

Roads: Public \_\_\_\_\_ Private \_\_\_\_\_

Developer's Name: \_\_\_\_\_

Contact Name: \_\_\_\_\_

Address: \_\_\_\_\_

City: \_\_\_\_\_ State: \_\_\_\_\_ Zip Code \_\_\_\_\_

Phone Number: \_\_\_\_\_ Fax Number: \_\_\_\_\_

Design Firm: \_\_\_\_\_

Contact Name: \_\_\_\_\_

Contact Phone Number: \_\_\_\_\_

Please be advised, for all developments with onsite community sanitary sewer treatment and disposal systems, a copy of the DNREC Permit verifying capacity for the number of units proposed will be required.

Other:

\_\_\_\_\_

# **PLAN REVIEW FEE SCHEDULE**

**(EFFECTIVE JULY 1, 2005 → DECEMBER 31, 2011)**

## **CHAPTER 99 – SUBDIVISION**

FLAT FEE	<u>\$2,000.00</u>
PER UNIT FEE	<u>\$42.00 EA</u>

Note: These fees include two (2) reviews of the submitted plans. If additional reviews are required an additional fee of \$20.00 per unit will be charged.

## **ORDINANCE 38 OR 657**

### **SEWER AND WATER**

#### **SEWER**

1. FLAT FEE	\$500.00
2. PER UNIT FEE	\$20.00 EA
3. PUMPING STATION WITH UP TO 1000 FEET OF FORCE MAIN (EACH)	\$2,500.00 EA
4. FORCE MAIN IN EXCESS OF 1000 FEET	\$150.00 PER 1000 FEET EA*

\*NOTE: This fee is not prorated i.e. 2247 LF Force main costs \$300.

It calculates as: 0' to 1000' = \$0; 1000' to 2000' = \$150; 2000' to 2247' = \$150 → \$300.00 Total

#### **WATER SUSSEX COUNTY WATER DISTRICTS ONLY**

1. FLAT FEE	\$500.00
2. PER UNIT FEE	\$20.00 EA

Note: These fees include two (2) reviews of the submitted Sewer and Water plans. Additional reviews will be at 60 percent of the above fees.

#### **ONSITE WASTEWATER TREATMENT AND DISPOSAL**

1. To be announced at a later date.

## **PLAN REVISIONS**

There will be a fee of \$1,000.00 for each revision after County's approval of the plans.

Adopted June 28, 2005

## CONSTRUCTION PLAN REQUIREMENTS

**Construction plan sets shall include, but are not limited to, the following:**

CHECK BOX

- 1. A total of three (3) complete sets of plans are to be submitted.
- 2. Preliminary Site Plan or Record Plat approval letter.
- 3. Time extension approval letter.
- 4. Conditional use Ordinance with conditions and stipulations.
- 5. Change of zone Ordinance with conditions and stipulations.
- 6. An approved Sewer Concept Plan or a Letter indicating one is not needed in each set of the construction plans.
- 7. A plan Cover / Title Sheet with an index of the sheets included in the plans.
- 8. A Phase Identification Plan.
- 9. A copy of the approved preliminary Site Plan, Master Plan or Record Plat stamped, signed and dated by Planning and Zoning in each set of the design plans.
- 10. Private Road Construction Plans, Profiles, and Details. Include details for all structures related to regulated improvements such as but not limited to; bridges, retaining walls, etc.
- 11. Include within the construction plans, improvements required by the Planning and Zoning Commission or Sussex County Council approvals; i.e. sidewalks, streetlighting and landscaping.
- 12. The DEL DOT Entrance Plan.
- 13. The State Fire Marshall's Office Plan.
- 14. The Stormwater Management Plan and the Erosion and Sediment Control Plan with two (2) copies of the Stormwater Management Report and calculations.
- 15. Sanitary Sewer and/or Central Water System Plans, Profiles, Details and Specifications.
- 16. Other Utility Plans including but not limited to; Water, Gas, etc.
- 17. Wastewater Treatment and Disposal Design.
- 18. Engineers Wastewater Treatment and Disposal Design Report.
- 19. Wastewater Treatment Hydraulic Profile.

**GRAVITY SEWERS**

**Design Information:**

Type of pipe: \_\_\_\_\_

Length: \_\_\_\_\_ ft. Diameter: \_\_\_\_\_ in.

Number of Manholes: \_\_\_\_\_ Maximum distance between manholes? \_\_\_\_\_

Minimum slope provided: \_\_\_\_\_ ft/ft. Minimum velocity provided: \_\_\_\_\_ ft/sec.

Minimum ground cover for pipe provided \_\_\_\_\_ ft.

**Design flow:**

Average Daily Flow: \_\_\_\_\_ gallons/day

Peak Design Flow: \_\_\_\_\_ gallons/day

Capacity \_\_\_\_\_ gallons/day

Joint Specifications: \_\_\_\_\_

Are drop type manholes provided? \_\_\_\_\_

Will minimum ten-foot (10) horizontal and eighteen inch (18) vertical separation from water lines be maintained? \_\_\_\_\_

Jack & Bores (Number, Length): \_\_\_\_\_

\_\_\_\_\_

Stream crossings: \_\_\_\_\_

Other Comments:

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

**PUMP STATIONS & FORCE MAINS**

(If more than one station is being proposed, please complete the following for each station and forcemain)

Station Number: \_\_\_\_\_

Station Capacity:

Design Flow: \_\_\_\_\_ gallons/day

Average Flow: \_\_\_\_\_ gallons/day

Peak Flow: \_\_\_\_\_ gallons/day

Non-clog or Grinder Pumps: \_\_\_\_\_

Design Considerations for Pump Station:

Can peak flow be accommodated if largest unit fails? \_\_\_\_\_

Are check valves provided on the discharge line? \_\_\_\_\_

If not, explain alternative procedure

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

Are gate valves provided on the discharge line? \_\_\_\_\_

Is ventilation provided in wet well? \_\_\_\_\_

Is an alarm system included? \_\_\_\_\_

Is an alternate source of power provided? \_\_\_\_\_

List other provisions included for emergency operations?

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

Physical Conditions:

Height of influent above pump (suction head): \_\_\_\_\_ ft.

Height of pump effluent above pump (discharge head): \_\_\_\_\_ ft.

Friction loss: \_\_\_\_\_ ft.

Pump capacity: \_\_\_\_\_ gal/min.

Head Characteristics:

Static head: \_\_\_\_\_ ft.

Total head: \_\_\_\_\_ ft.

Horsepower Characteristics:

Required motor horsepower \_\_\_\_\_ hp.

Design Considerations for Force Main:

Directional Drill or Open Cut? \_\_\_\_\_

Pipe Material: \_\_\_\_\_

Hazen-Williams "C" factor used for design \_\_\_\_\_

Diameter: \_\_\_\_\_ in. Total Length: \_\_\_\_\_ ft.

Velocity at design average flow \_\_\_\_\_ ft/sec.

Are air relief valves specified? \_\_\_\_\_

Minimum ground cover for pipe provided? \_\_\_\_\_

Are drop type manholes provided? \_\_\_\_\_

Will minimum ten-foot (10) horizontal and eighteen-inch (18) vertical separation from water lines be maintained? \_\_\_\_\_

Type of joint specified? \_\_\_\_\_

Other Comments:

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