



The Wastewater Treatment Plant at 130 Essex St.

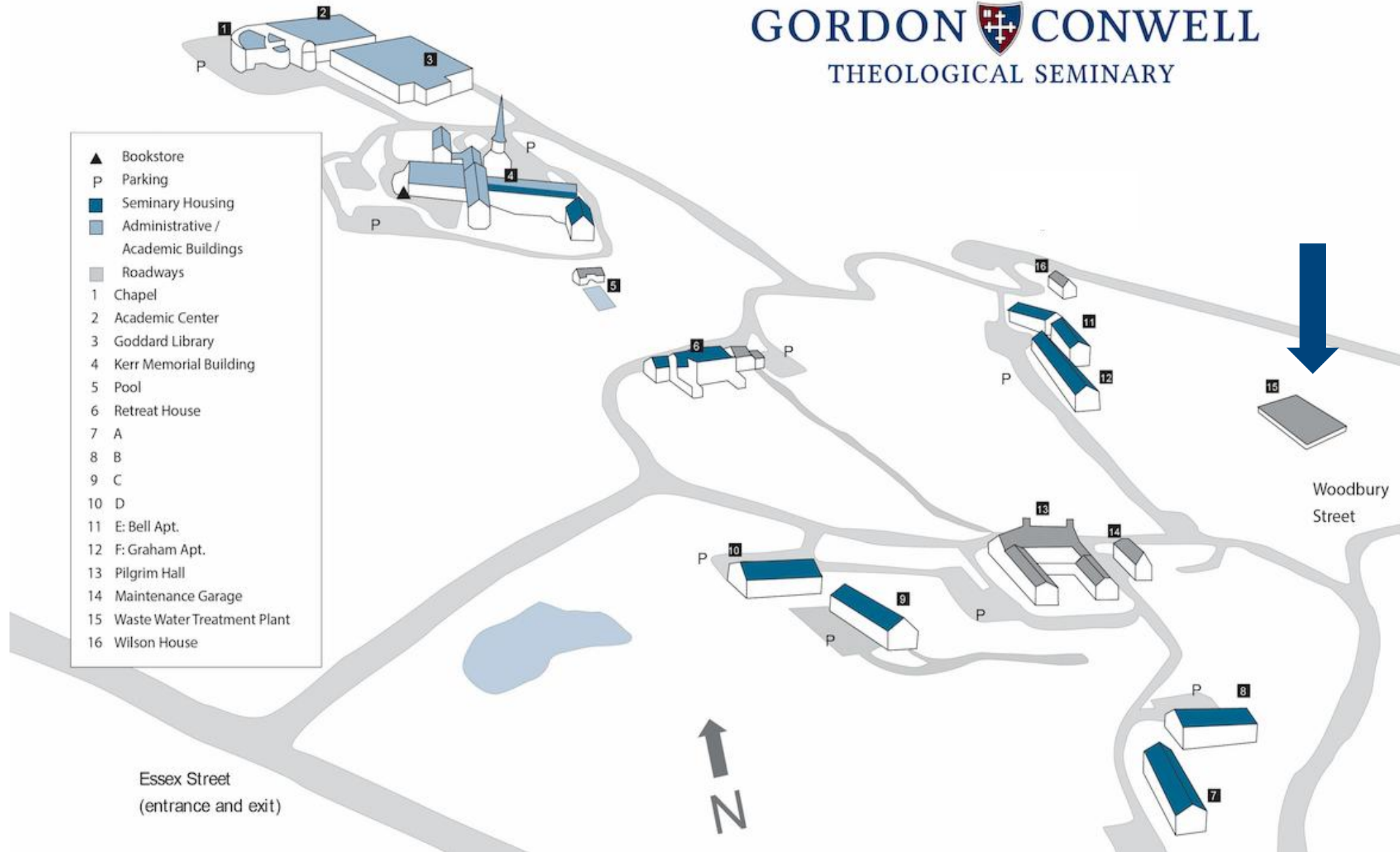
GORDON  CONWELL
THEOLOGICAL SEMINARY

How does Gordon-Conwell deal with wastewater?

- Hamilton does not have a sewer system and, instead, generally relies on on-site wastewater treatment systems (cesspools and septic systems).
- Gordon-Conwell, however, has its own package-treatment plant to handle all of its wastewater: the Wastewater Facility.
- It has been fully-functioning since 1978 with all necessary upgrades.

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How does the Wastewater Facility work?

- The Wastewater Facility on campus protects local water quality by treating all campus sewage before discharge to groundwater.
- Effluent is treated below ground with a gravity-fed sewer and pumps.



How is the Wastewater Facility approved and regulated?

Massachusetts Department of Environmental Protection (MassDEP) operates the Groundwater Discharge Program.

- MassDEP approved the Wastewater Facility design accordance with their 314 CMR 5.00 and 310 CMR 15.00 (Title 5) design standards for on-site and private wastewater treatment facilities.
- The system is regulated under Groundwater Discharge Permit (GWDP 19-5), which sets limits for effluent parameters including flow, BOD, TSS, nitrate-N, total nitrogen, and oil & grease.



Is the Wastewater Facility inspected regularly?

- Gordon-Conwell has a contract with an independent engineering firm specializing in wastewater treatment design, operation, and compliance in Massachusetts, Martinage Engineering Associations (Martinage Engineering). They provide technical oversight, laboratory testing, and reporting to MassDEP.
- Martinage engineers are on site **every weekday for approximately two to three hours**, inspecting equipment, testing water quality, and ensuring proper operation.

MEA



MassDEP

Commonwealth of Massachusetts
Department of Environmental Protection

Is the Wastewater Facility inspected regularly?

- Martinage Engineering provides *monthly* reports on behalf of Gordon-Conwell with MassDEP and the Town of Hamilton Board of Health.
- In addition, MassDEP inspects the Wastewater Facility annually.
- Gordon-Conwell has fully-complied with the MassDEP capital reserve escrow and immediate repairs escrow requirements.



Is there 24/7 monitoring of the Facility?

- Gordon-Conwell personnel check the plant 6 times a day and keep updated logs, during day and evening shifts. If any issues arise, they contact Martinage Engineering.
- Gordon-Conwell has a team on call 24/7 and backup systems in place to address any unexpected situations.



Are there any recent upgrades?

Recent upgrades include:

- Installation of a **new roof** and **structural re-shoring** for long-term stability
- **Replacement of the former greenhouse enclosure** with a **fully enclosed structure**, minimizing sound and odor
- **Relocation of exterior aeration fans** from the rear (neighbor-facing) side to a lateral position to reduce sound transmission
- **Exterior painting in a natural green tone** to blend with the surroundings. A major upgrade in 2008 introduced the FAST Denite System for filtration



Are there any recent upgrades?

- **Replacement of fans** to improve internal ventilation and odor control
- **New lighting** inside the facility for safety and maintenance access
- **Planting of 20 new trees**
- **Installation of new fencing** to create a visual buffer along the road and property line



Who will manage the Wastewater Facility?

- Gordon-Conwell will continue to manage the Wastewater Facility after the sale of the apartments.
- Gordon-Conwell personnel check the plant 6 times a day and keep updated logs, during day and evening shifts. If any issues arise, they contact Martinage Engineering.
- The new owners are contractually obligated to contribute financially to all necessary ongoing maintenance and capital expenditures.