

CHAPTER 4 EXISTING AND PROPOSED FLOOD PROTECTION PROJECTS, AND STORMWATER COLLECTION SYSTEMS

Existing Stormwater and Flood Protection Facilities

Information concerning existing stormwater collection systems, stream improvement, and flood protection projects located in the Chatham Run watershed are incomplete and can best be described in narrative form.

Several localized stormwater collection systems are in place in the Chatham Run watershed. The Crestmont Development in Dunnstable Township is served by a series of 12- and 15-inch corrugated metal pipes (CMPs) and grassed swales. Drainage from this development flows to both Chatham Run mainstem and Little Plum Run. Other localized stormwater collection systems in Dunnstable Township include a series of 12- and 15-inch CMPs and grassed swales in the Sagamore Hills Development (partially located in Pine Creek Township); a series of 15-inch CMPs and drop inlets at the intersection of Park Avenue and State Route 1008; and numerous grassed swales, drop inlets, and culverts under township and state roads.

Several localized stormwater collection systems are in place in Pine Creek Township (including the Village of Woolrich). A series of drop inlets and 15-inch CMPs drain Park Avenue and discharge directly to Chatham Run mainstem. Woolrich Woolen Mills drains paved parking areas directly to Chatham Run mainstem. Other municipal-owned, localized stormwater collection systems are present in Pine Creek Township.

No stormwater collection systems were identified in Gallagher or Woodward Townships, other than roadside ditches and culverts under township and state roads.

Based on information from the Clinton County Conservation District, no major flood protection projects have been completed, or are proposed in the Chatham Run watershed at the time of this report. However, one project of undetermined size, which involved relocating Chatham Run in Woolrich, was completed in 1935. A flood protection study of Chatham Run in Dunnstable and Pine Creek Townships was completed by PA DEP in 1977 in response to flood-related damages to thirteen (13) homes between Park Avenue and SR 0150. The study by PA DEP concluded that the cost of this project would greatly exceed the benefit that would be derived from protecting the subject homes from flood damage. Therefore, no PA DEP funded project was recommended. The study recommended floodproofing of residences by individual property owners. The study further recommended that townships should encourage individual property owners to purchase flood insurance.

A number of small flood protection projects involving stream improvements have been completed on Big and Little Plum Runs, and on Chatham Run mainstem. Riprap has been placed on the eastern stream bank of Big Plum Run between SR 0150 and Big Plum Run Road, and sediment has been removed from the stream bed in the same area.

Channel improvements on Chatham Run mainstem have been made in four locations: (1) the western bank of the stream was graded at a 2:1 slope, sediment and debris were removed, and the channel depth was increased by 1.5 feet between the SR 0150 bridge and River Road; (2) the eastern bank immediately above the SR 0150 bridge was graded at a 1.5:1 side slope, and riprap was placed along the banks as a stabilization measure; (3) the abutment of the SR 0150 bridge, located adjacent to the Woolrich Woolen Mills garage was repaired and the streambank was reshaped as a result of damages incurred during tropical storm Agnes in 1972; and (4) a request for debris and sediment removal in Chatham Run south of SR 0150 and north of the abandoned railroad viaduct was submitted to PA DOT by PA DEP. No other existing or proposed flood protection projects have been identified by the Clinton County Conservation District.

A portion of the existing concrete wall along Chatham Run mainstem just upstream of the Main Street bridge in Pine Creek Township was damaged during the recent Ivan flood event. This damaged section of concrete wall is proposed for repair during calendar year 2006 through a grant from the Pennsylvania Department of Environmental Protection (PA DEP). Portions of the existing earthen dike along Chatham Run mainstem downstream of Gravel Hill Road were also damaged during the recent Ivan flood event. Pine Creek Township is currently working with residents protected by this earthen dike to coordinate permits for the necessary repair work.

Proposed Stormwater and Flood Protection Facilities

According to information provided to the Clinton County Conservation District by local county and municipal officials, there are no new flood protection projects or stormwater collection systems proposed in the Chatham Run watershed at the time of this report. Therefore, estimates of design capacity, costs, implementation schedules, funding scenarios, and operation and maintenance costs of proposed facilities are not included as a part of this study. Any plans for new facilities in the future should be developed and submitted to the appropriate municipalities, as described in the model ordinance contained in Chapter 8 of this Plan.