



pennsylvania

DEPARTMENT OF ENVIRONMENTAL PROTECTION



Bureau of Waterways Engineering and Wetlands

Glenside Area Flood Protection

Tookany Creek
Cheltenham Township
Montgomery County

April 10, 2013

State Flood Protection Program

1936: Flood Control Act authorizes DEP to design and construct flood control works within stream channels of the Commonwealth. Structural solutions only. Not authorized to conduct buyouts.

1946 – Present: DEP has designed and constructed approximately 200 projects in 100 communities throughout the Commonwealth. The total construction cost of all these projects in today's dollars would be about \$800 million.

For more information, visit DEP's website at www.depweb.state.pa.us, keyword: Flood Protection

Glenside Area Flood Protection Update

- December 2001 – A flood control project was designed and accepted by the Township to alleviate flooding in the area. The Township was not able to obtain the required land easements to allow the project to be constructed. Project required no demolition of buildings.
- February 2012 – As a result of T.S. Lee flooding, Cheltenham asked DEP to investigate flood protection alternatives that would eliminate obtaining easements from SEPTA or properties situated in Abington Township. Consider removing buildings if needed.

Design Criteria

- Must meet FEMA criteria (freeboard limits, structural stability, closures, etc.) to ensure project is eligible for the National Flood Insurance Program.
- Must meet DEP design criteria and permitting requirements.
- Floodwater elevations cannot be increased upstream or downstream of the project limits.
- Must provide flood protection for the 1% annual (100-yr) storm event plus freeboard (3' additional height). This provides protection for up to the 0.2% annual (500-yr) storm event. Includes T.S. Lee & T.S. Allison.

Glenside Area Flood Protection Alternatives

- Cheltenham Township & DEP considered many alternatives.
- Alternatives generally involved demolishing buildings where necessary and constructing ponding areas to store floodwater and attenuate the flood wave.



Rices Mill Road

SEPTA

Tookany Creek

Area 1

Rices Mill Road

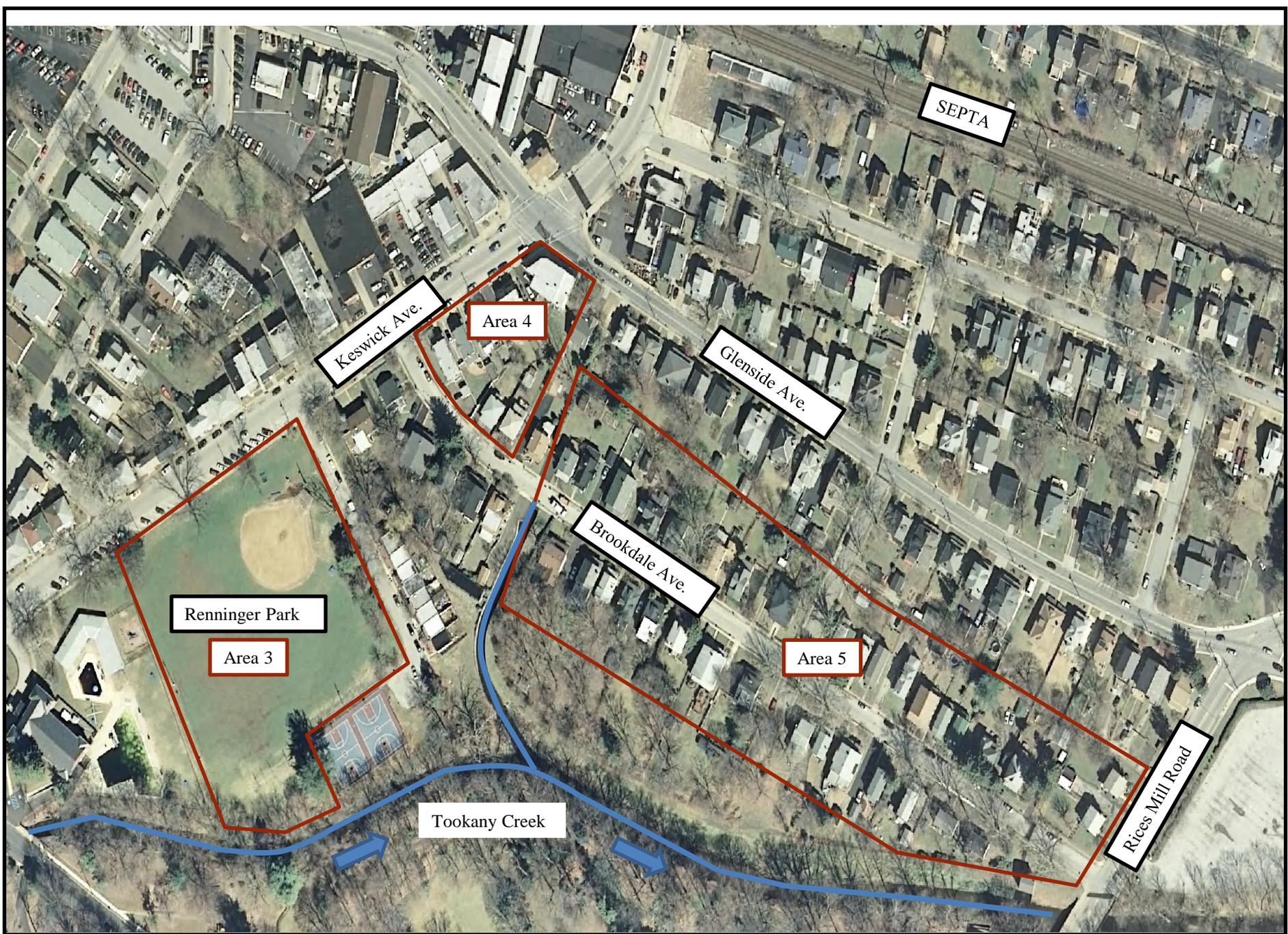
Glenside Ave.

Area 2

Paxson Ave.

North Ave.

Tookany Creek



SEPTA

Keswick Ave.

Area 4

Glenside Ave.

Renninger Park

Area 3

Brookdale Ave.

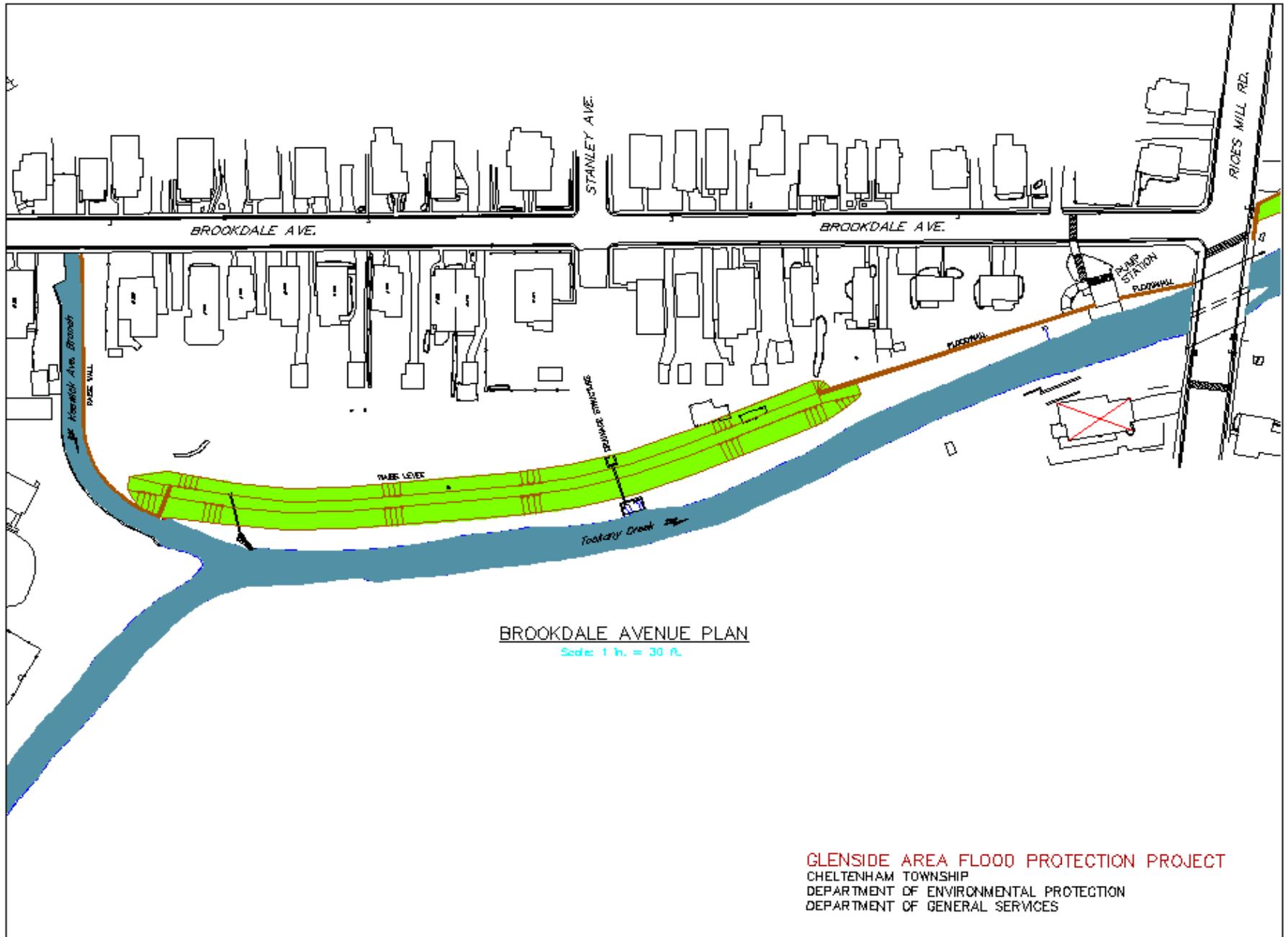
Area 5

Tookany Creek

Rice Mill Road

Glenside Area Flood Protection Alternatives

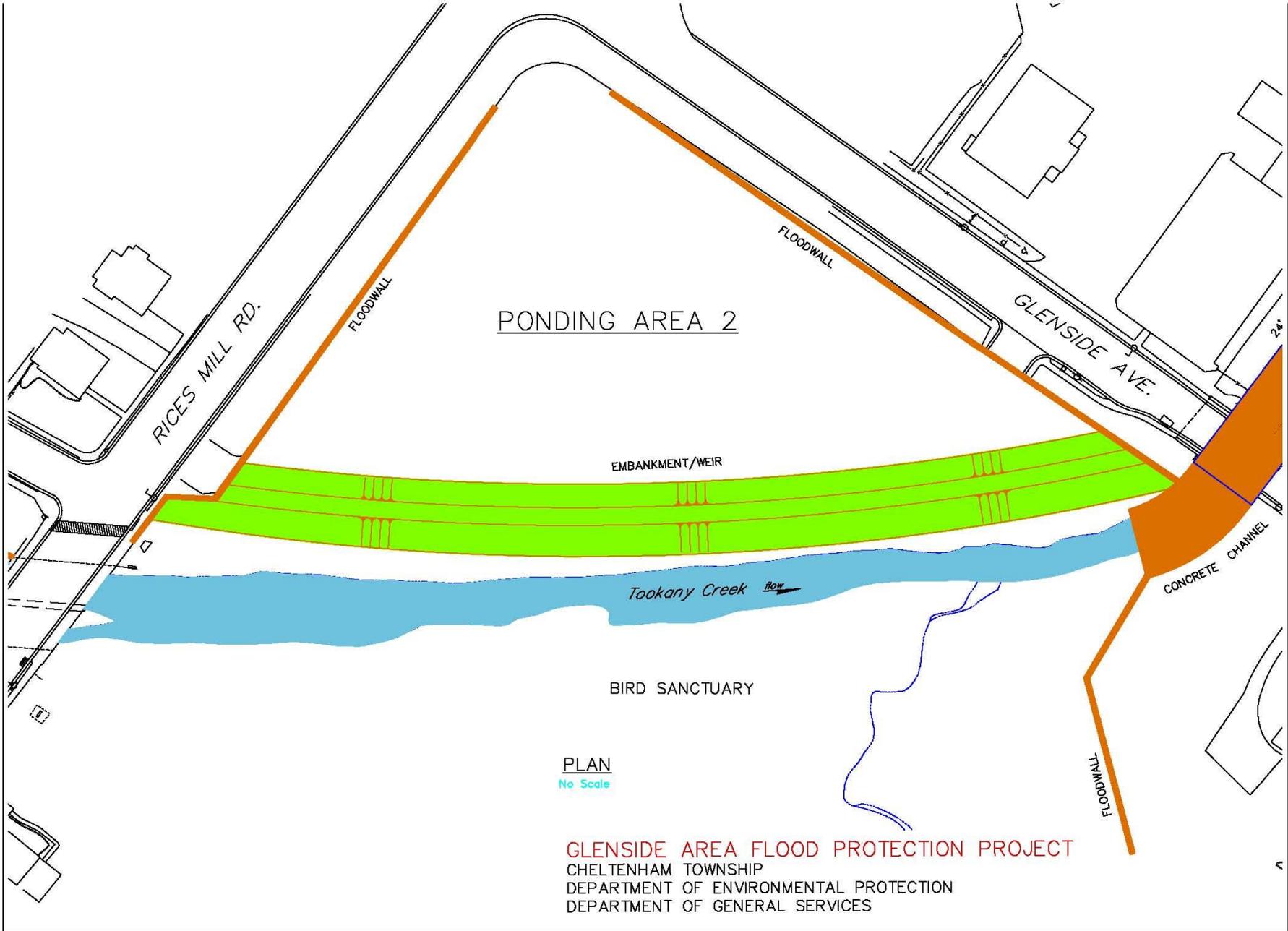
- Preferred Alternative: Construct ponding areas 1 & 2. Raises floodwater elevations upstream of Rices Mill Road so must demolish one home. Demolish Mack Electric building and adjacent auto repair garage building.



BROOKDALE AVENUE PLAN

Scale: 1 in. = 30 ft.

GLENSIDE AREA FLOOD PROTECTION PROJECT
CHELTENHAM TOWNSHIP
DEPARTMENT OF ENVIRONMENTAL PROTECTION
DEPARTMENT OF GENERAL SERVICES



PONDING AREA 2

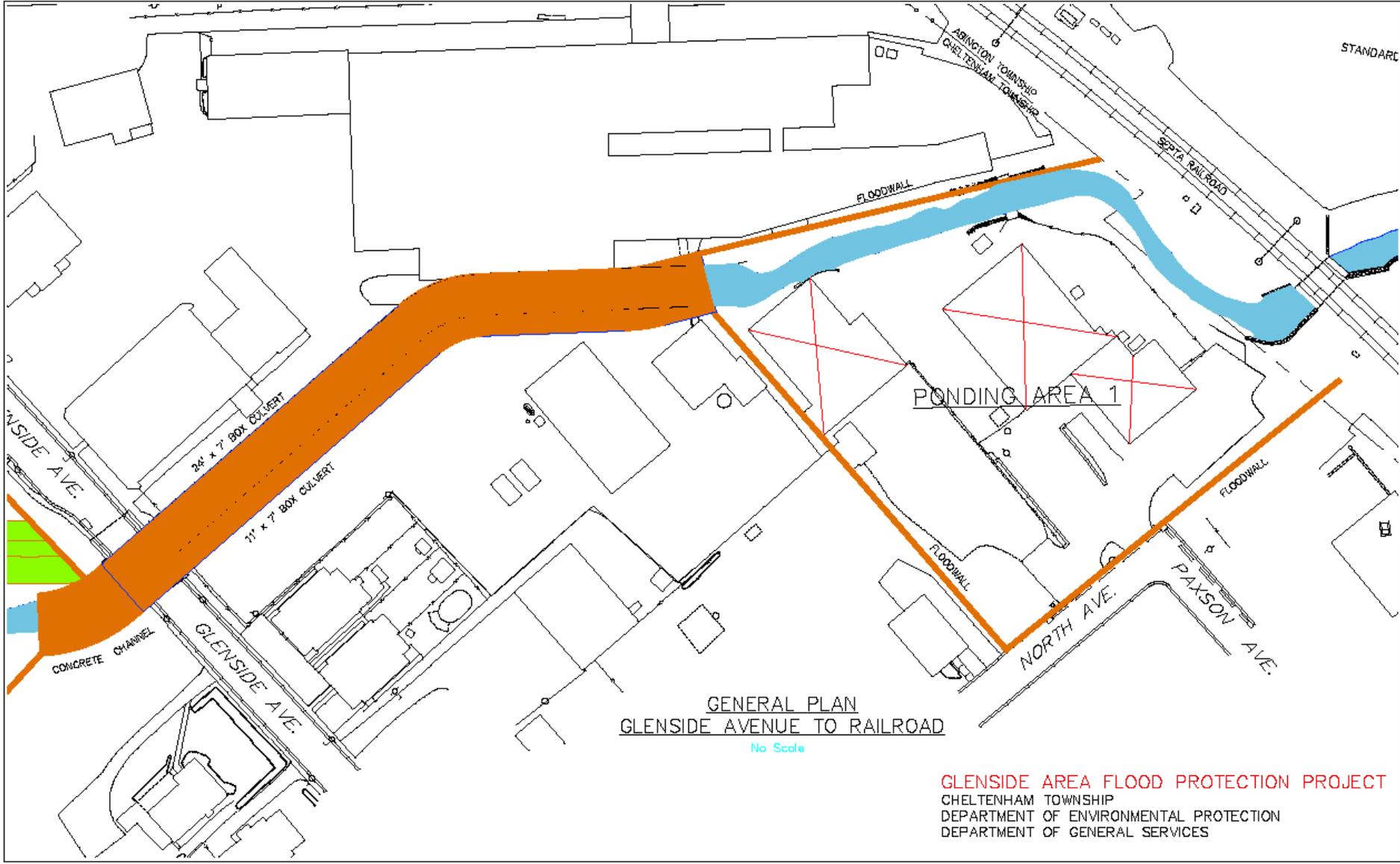
EMBANKMENT/WEIR

Tookany Creek *flow* →

BIRD SANCTUARY

PLAN
No Scale

GLENSIDE AREA FLOOD PROTECTION PROJECT
CHELTENHAM TOWNSHIP
DEPARTMENT OF ENVIRONMENTAL PROTECTION
DEPARTMENT OF GENERAL SERVICES



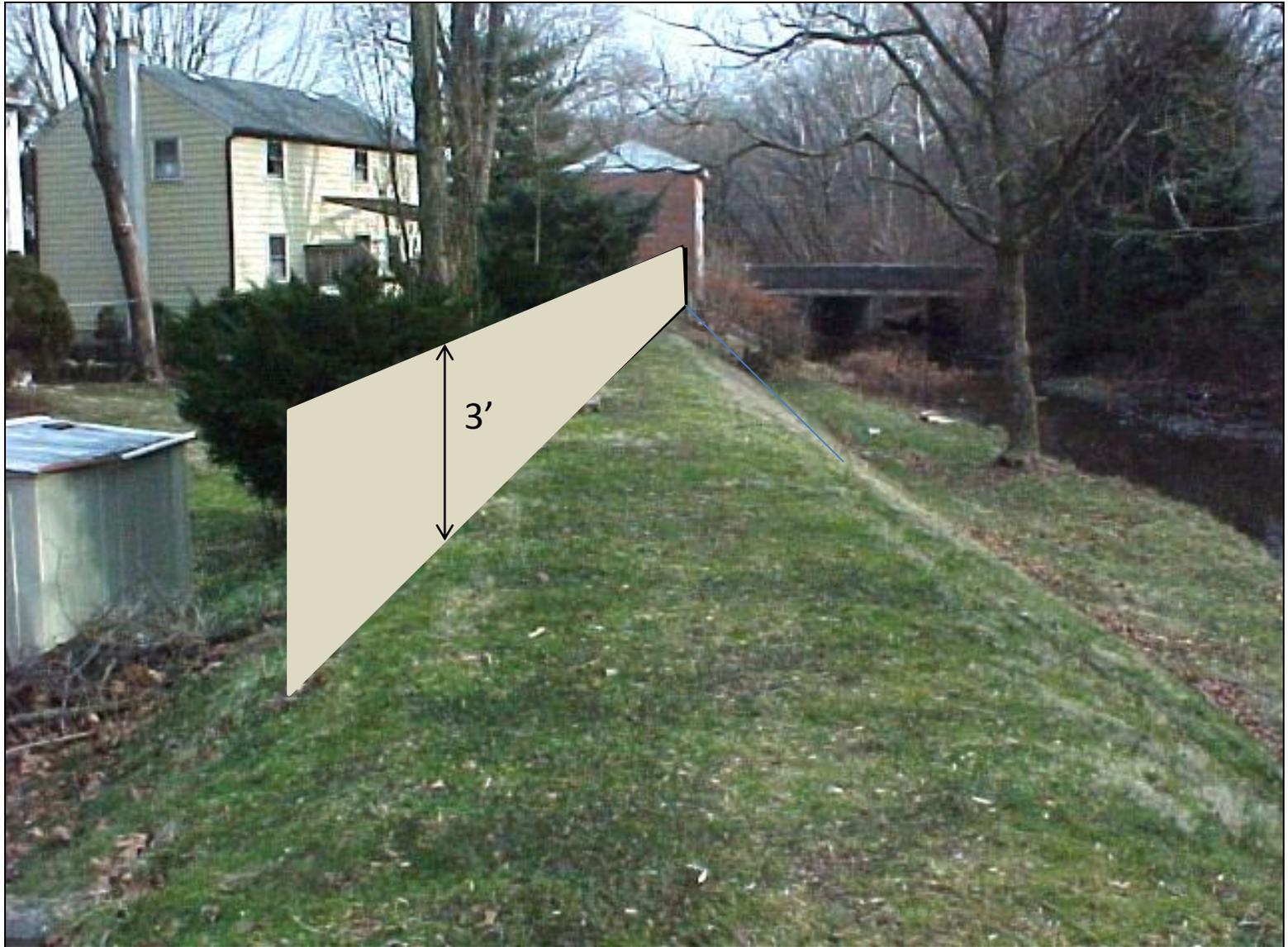
GENERAL PLAN
GLENSIDE AVENUE TO RAILROAD
No Scale

GLENSIDE AREA FLOOD PROTECTION PROJECT
CHELTONHAM TOWNSHIP
DEPARTMENT OF ENVIRONMENTAL PROTECTION
DEPARTMENT OF GENERAL SERVICES













SPEED
LIMIT
25

Report a problem









Project Authorization & Funding

- Flood control projects are authorized and funded by the State of Pennsylvania. No Federal Funding. Project Sponsor also contributes.
- State Authorization/Funding:
 - * Act 136 of 1994 - \$3,000,000
 - * Act 83 of 2006 - \$1,000,000
- Total Construction Funds Available: \$4,000,000

Project Partnership

- Department of Environmental Protection (DEP)
 - * Program Agency
 - * Design Professional
 - * Issue Permits

- Department of General Services (DGS)
 - * Funding Agency
 - * Contract Administrator

- Cheltenham Township
 - * Project Sponsor

Project Coordination

- US Army Corps of Engineers Flood Damage Reduction Feasibility Study. Commenced June 2012. Draft project solutions in July 2013.
- DEP has been collaborating with the Corps of Engineers since the study started.
- With Township approval, the preferred alternative presented tonight will be shared with the Corps for inclusion into their study.
- Tookany Creek Flood Damage Reduction Study Website:
<http://www.nap.usace.army.mil/Missions/CivilWorks/TookanyCreekFeasibilityStudy.aspx>

What Happens Next ?

- DEP drafts new Sponsorship Agreement along with Rights-of-Way Drawings showing the required property easements. (September 2013)
- Township works toward obtaining all easements needed for the project. DGS legal will review and approve all required easements. (March 2014)
- DEP finalizes construction drawings and specifications, and obtains all necessary permits for construction of the project. (March 2014)
- DGS reviews and approves the construction contract documents and bids the project. (June 2014)
- Project construction completed. (September 2015)



Questions and Comments

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