

## Sinkhole Protection BMP

Presented by: Alex Godsey, City Engineer &

Tracy Smith, Stormwater Coordinator

### **Somerset Statistics:**

Total Area = 11.3 Sq. Mi.

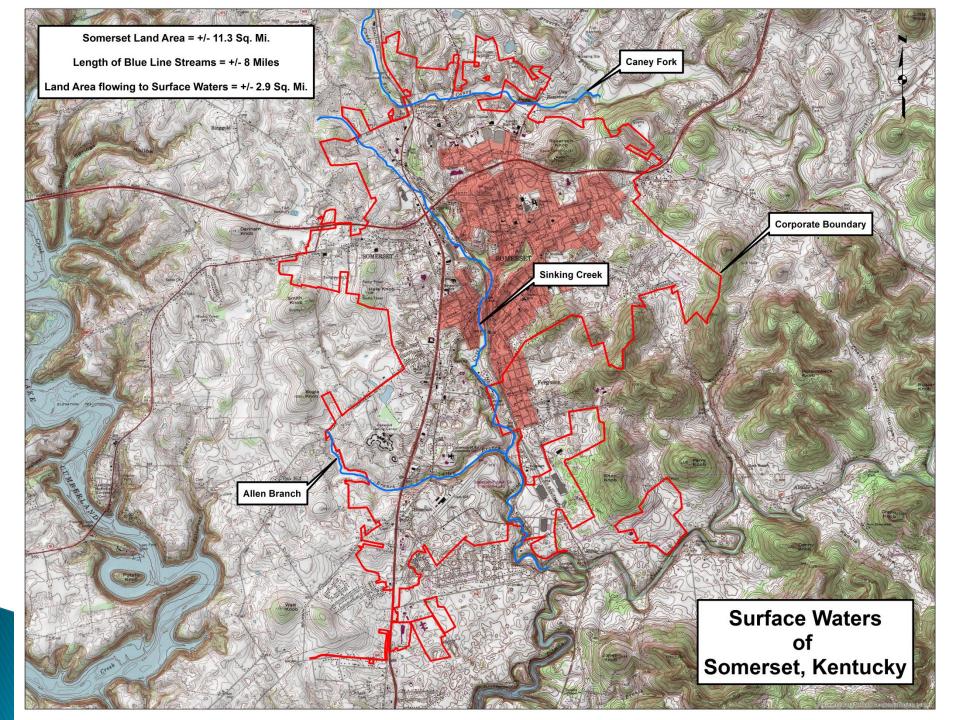
Three Blue Line Streams
Sinking Creek
Allen Branch
Caney Fork

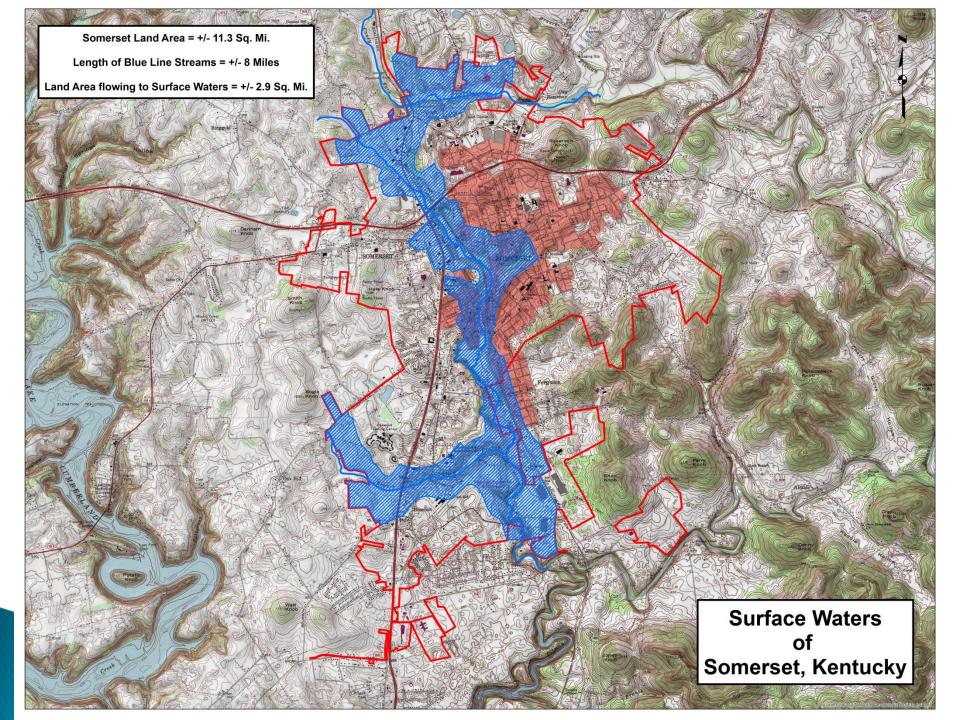
Approx. 2.9 Sq. Mi. drains to surface waters



Approximately 75% of runoff from MS4 drains to Sinkholes!

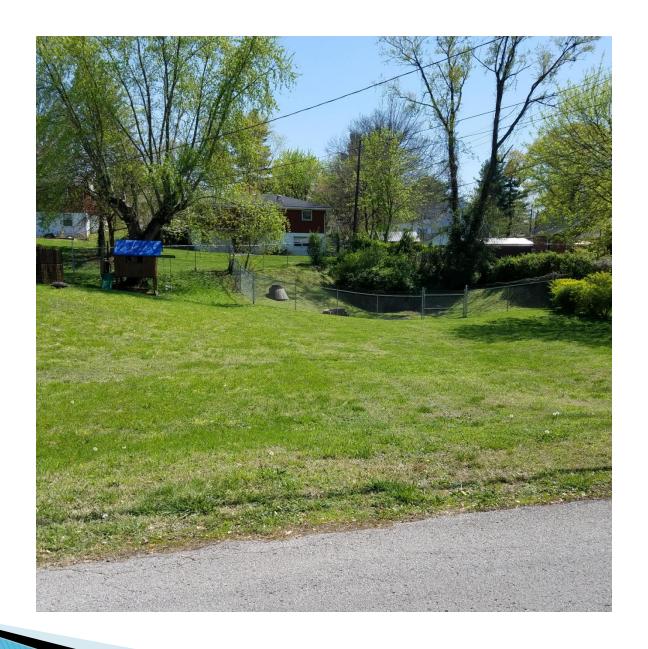
Sinkholes are pretty important!



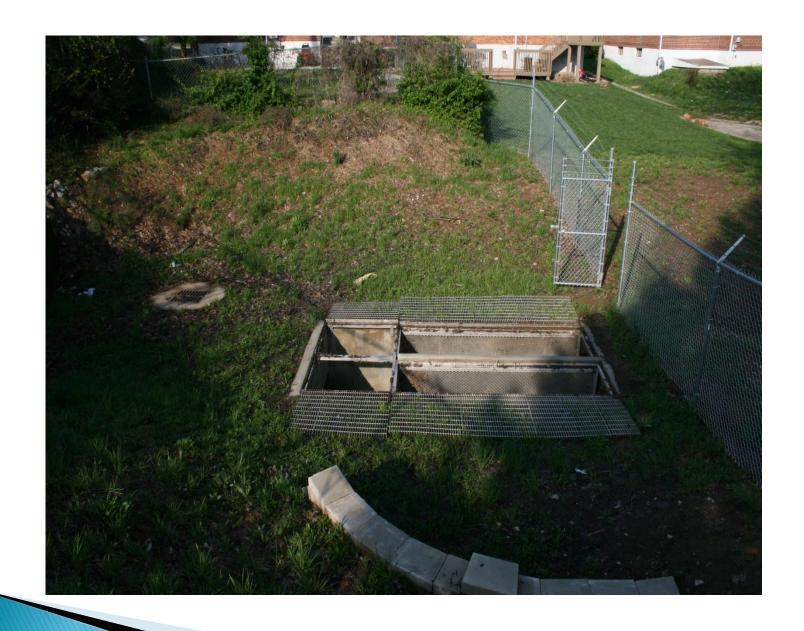


# Richards Court Project: Total Area = 66.5 Acres

- Ponding Common in Heavy Events
- Water Over Roadway Once/Year
- Water Damage to Adjacent Homes
- Flooded Sewers and Backups
- Dangerous Open Hole and Ditch



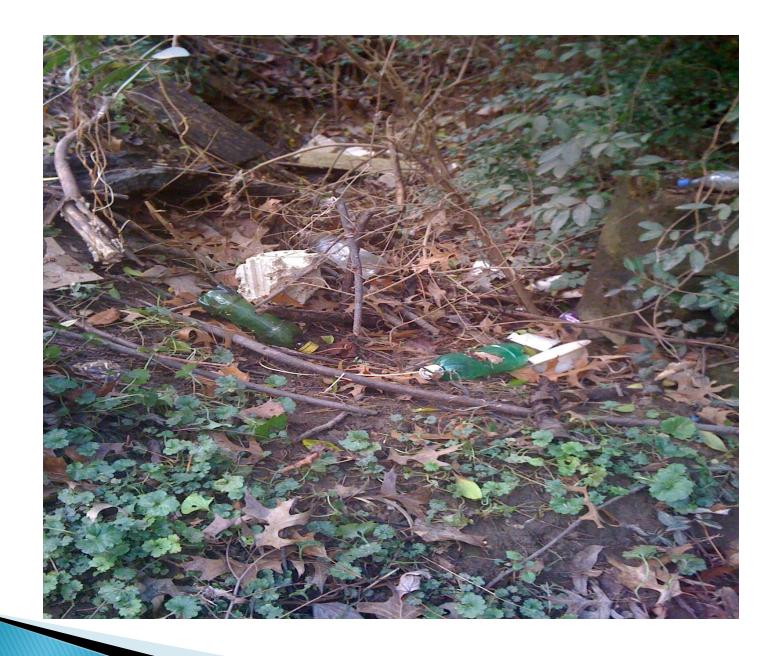




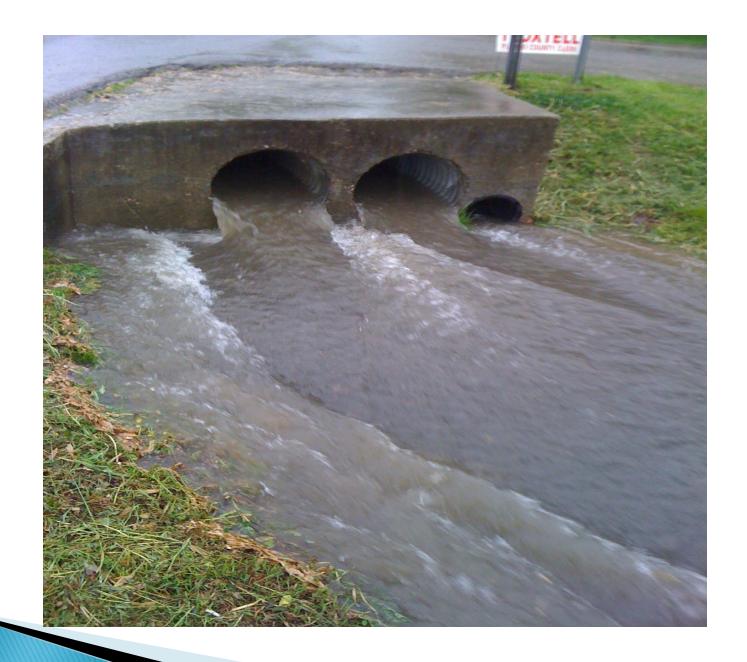




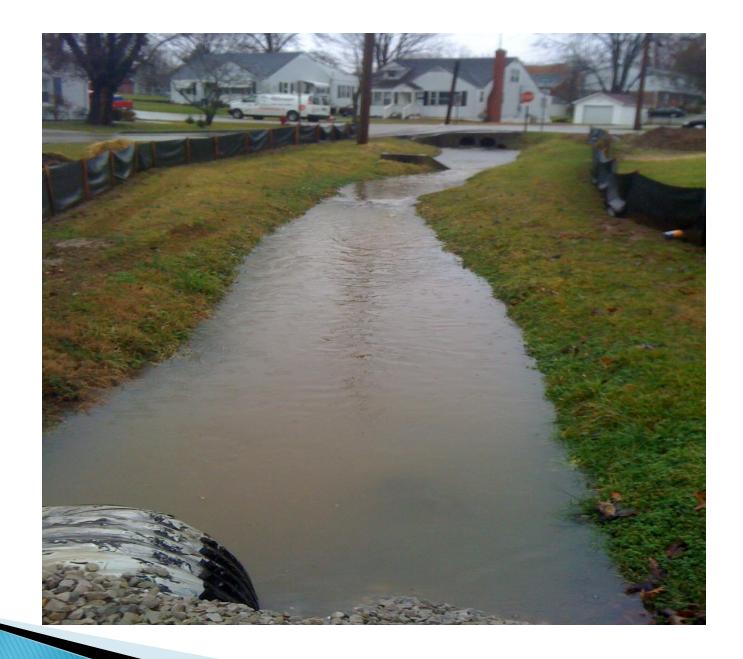




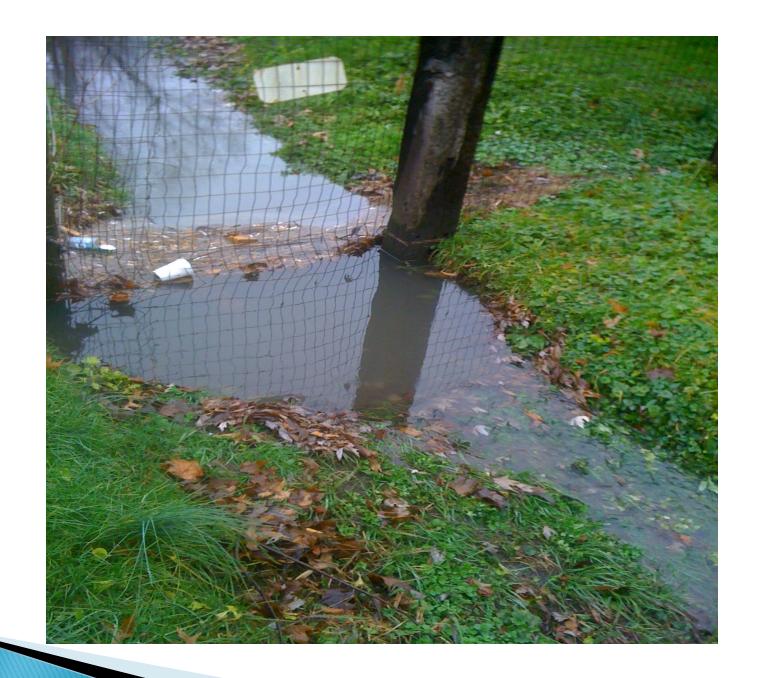








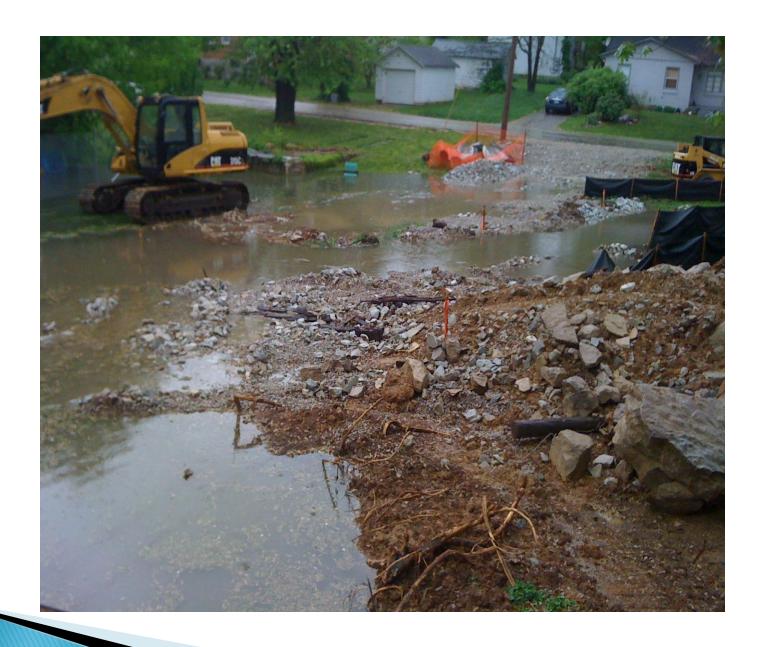






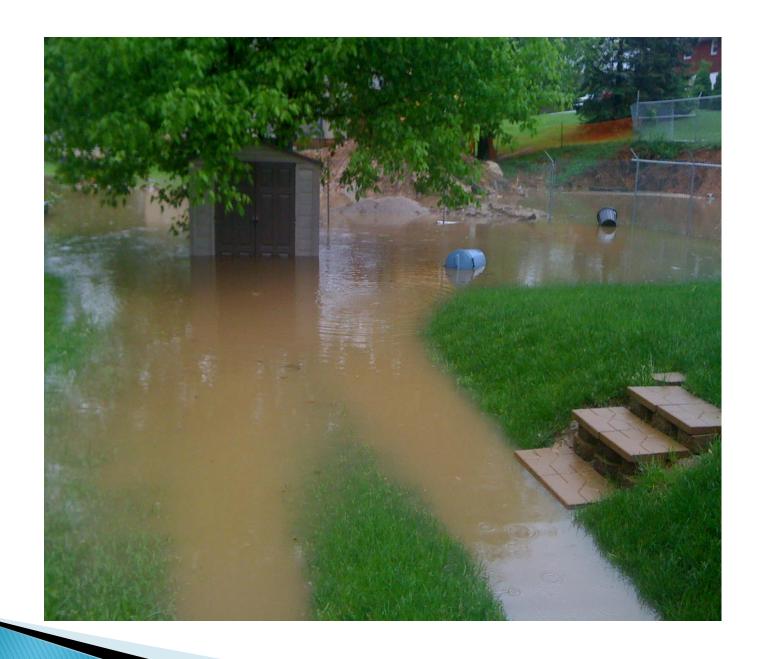
















#### **SINKHOLE REMEDIATION**

ROSE, CRAWFORD, AND HOLMES STREET SOMERSET, KENTUCKY

#### SHEET INDEX

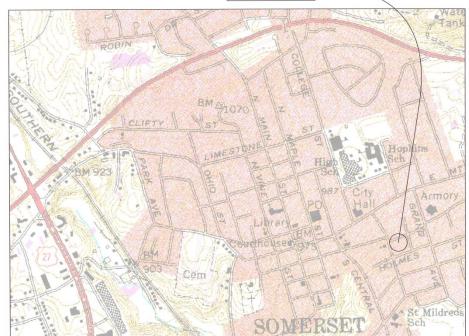
SHEET I: SITE DRAINAGE CALCULATIONS SHEET 2: PROPOSED IMPROVEMENTS SHEET 3: PROPOSED IMPROVEMENT DETAILS

SHEET 4: AS-BUILT IMPROVEMENTS

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#### CLIFTY HEIGHTS COMMUNITY DEVELOPMENT

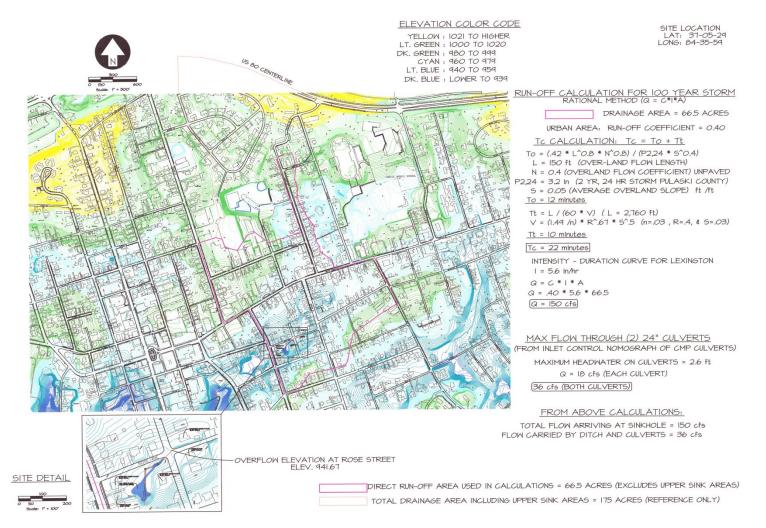
PO BOX 609 SCIENCE HILL, KY 42553 SITE LOCATION LAT. 37-05-29-LONG. 84-35-89





'ENGINEERING SERVICES, INC.

165 FOSTER LANE STANFORD, KY. 40484 (606) 365-8362 FAX (606) 365-1097



ECKED DRAWN

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FILENANE

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DATE CHECKED DR

(##)

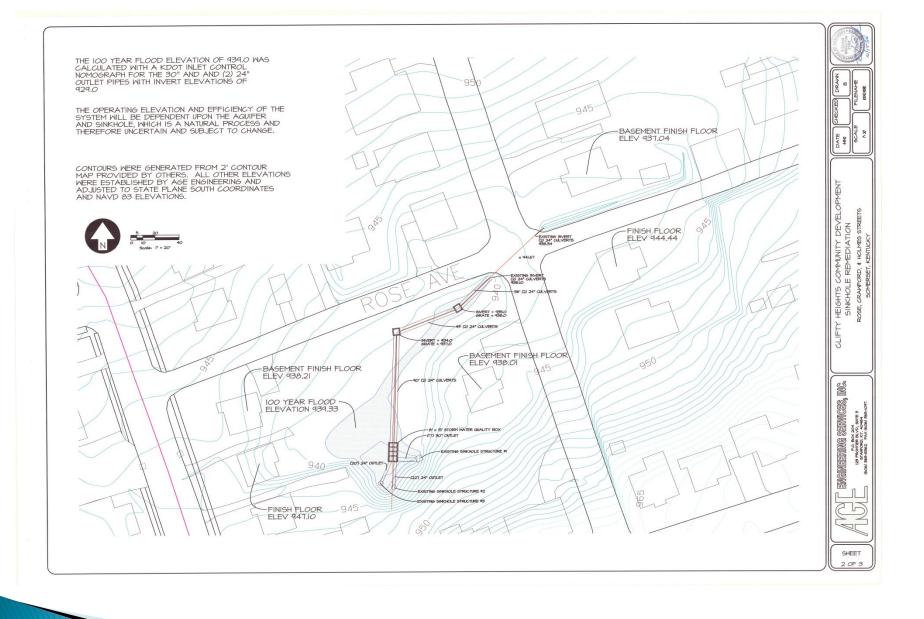
SCALE FILENA

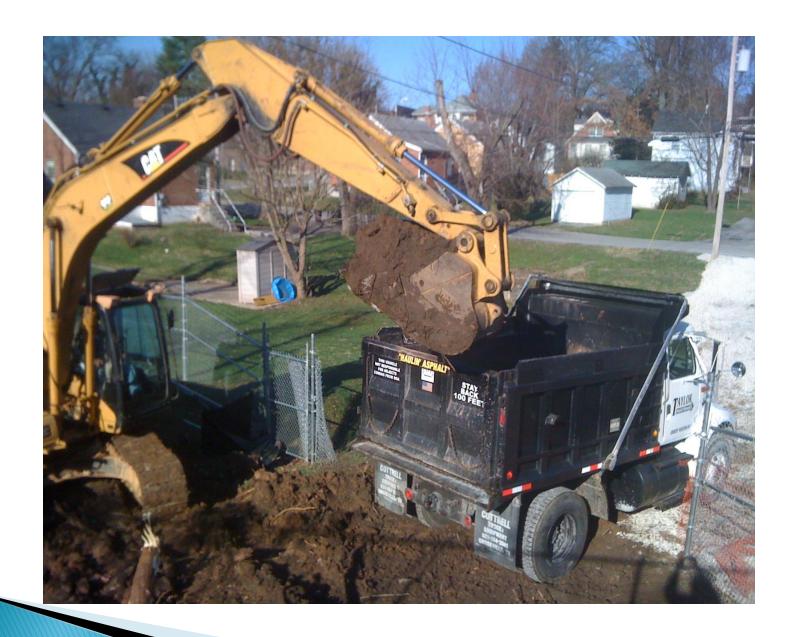
DRINK

' HEIGHTS COMMUNITY DEVELOPME SINKHOLE REMEDIATION ROSE, CRAWFORD, & HOLMES STREETS

ENGINEERING SERVICES, INC.

SHEET LOF 3





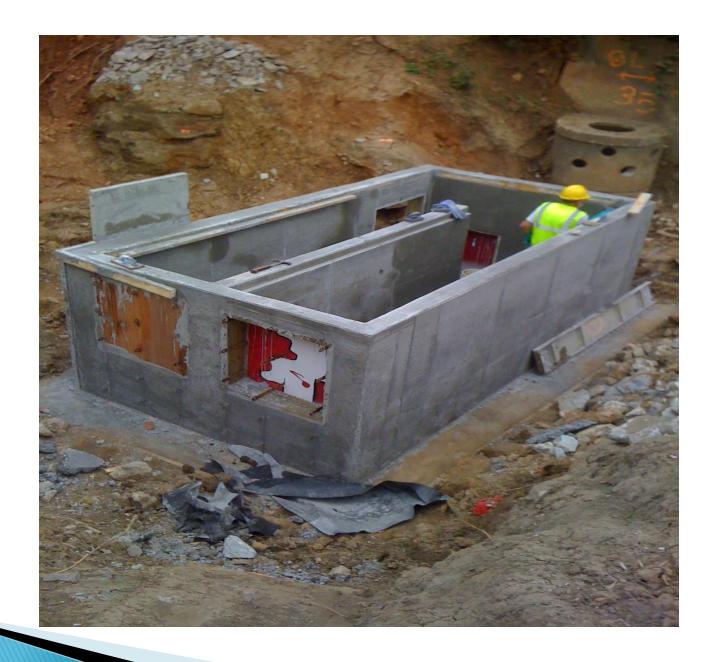






















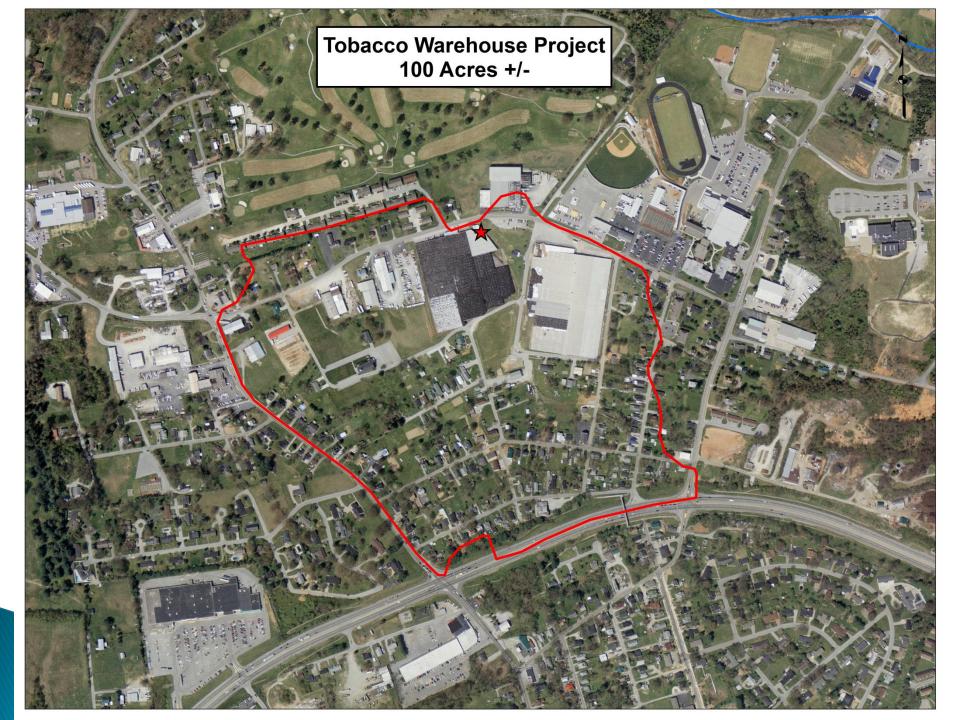






## Richards Court Project: Post Construction

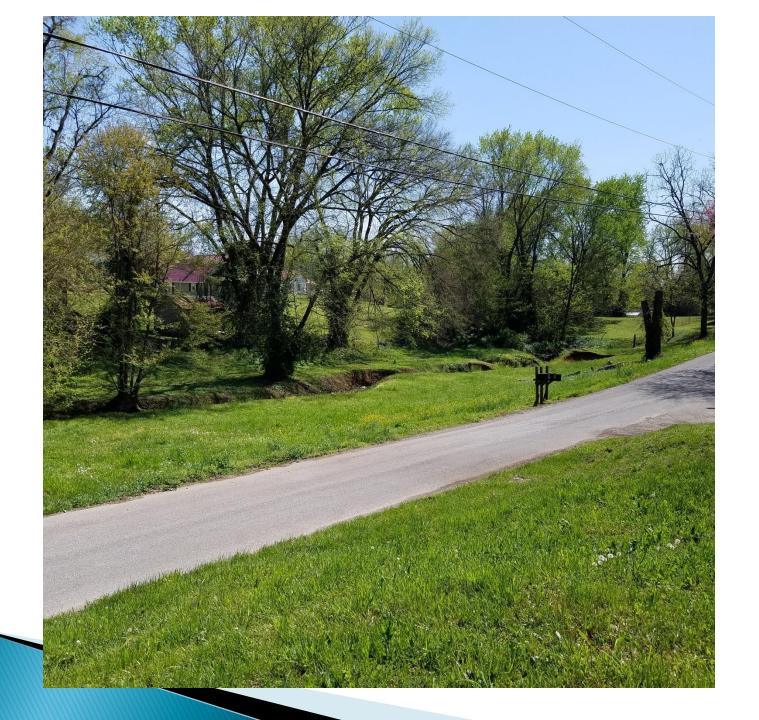
- Over 350 CF of Material Captured Year 1
- No Ponding Since 2012
- No Hazardous Sink and No Open Ditch
- New Park for Residents
- •\$120k

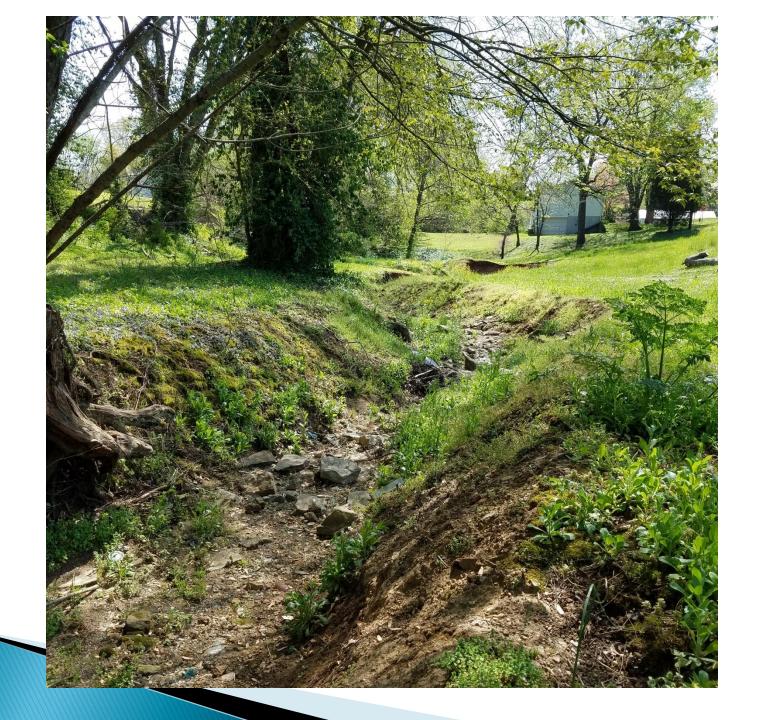








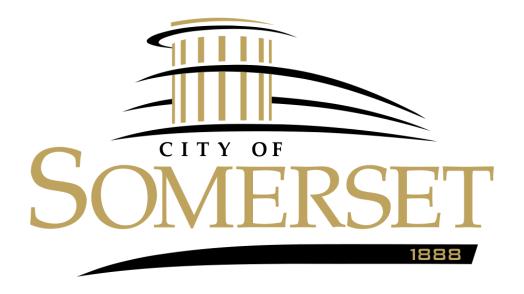












The end......