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TIPPECANOE COUNTY OFFICE BUILDING
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ELIJAH FUGATE REGULATED DRAIN #30
RECONSTRUCTION REPORT
March 20, 2014

The Elijah Fugate Regulated Drain was originally established in 1893 in Montgomery County Circuit Court, Case Number 10973, File Box 151. The Drain and its watershed are located in Sections 27, 28, 33 and 34 Township 21 North and Range 4 West in the political townships of Lauramie and Randolph, Tippecanoe County, Indiana. Also, Section 3 Township 20 North and Range 4 West in the political township of Madison, Montgomery County, Indiana.

The watershed area currently contains a total of 814.695 acres with 68.954 acres in Montgomery County and 745.741 acres in Tippecanoe County. A maintenance rate of \$1.00 per acre was established on August 3, 1971 by the Tippecanoe County Drainage Board. On April 30, 2003 the Tippecanoe County Drainage Board approved a maintenance assessment rate of \$5.80 per acre which is the current rate.

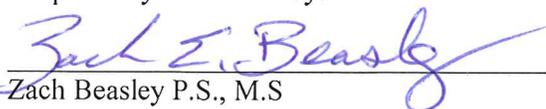
I have personally walked, driven, talked with landowners, and inspected the Elijah Fugate drainage system per the request of the landowners. Based on my investigation it is my professional judgment that to accomplish the wishes of the landowners, a new open ditch will be constructed downstream of the current subsurface tile junction of the Elijah Fugate and Frank Kirkpatrick tile system. This open ditch will be approximately 1,909 lineal feet in length and serve as the new outlet for the Elijah Fugate tile system and the Frank Kirkpatrick tile system and outlet into the Romney Stock Farm Regulated Open Ditch North of CR 1200S. Both tile systems will have their own tile outlet into the new open ditch. Land owners in the Elijah Fugate and Frank Kirkpatrick watersheds will share the cost of the new open ditch because they are both benefitted by the new outlet. There will also be approximately 2,521 lineal feet of new 18 inch tile installed from the new outlet continuing upstream that will connect to existing plastic dual wall HDPE tile that was installed in 2004. This will provide the positive flow requested by the land owners. Note: Only the benefitted acres within the E. Fugate watershed will pay for the new 18" inch tile installation.

It is the judgment of the Tippecanoe County Surveyor that a sum of approximately \$102,281.15 is needed to reconstruct and improve the Elijah Fugate drainage system. Note: The previous referenced dollar value is the sum of the tile installation and the shared cost of the open ditch construction. After completion of the project there will be 11,350 lineal feet of main tile, 7,360 lineal feet of branch tile and 1,000 lineal feet of open ditch under maintenance.

An assessment of \$25.50 per acre and a \$50.00 minimum over a five year period is recommended. This will generate \$104,052.11 over a five year period. Assuming the reconstruction and improvements are completed and the General Drain Fund has been repaid after the five year period, the Tippecanoe County Surveyor recommends the per acre assessment be lowered to the existing maintenance rate of \$5.80 per acre and a \$25.00 minimum, with an 8 year collection total.

Damages will be awarded for loss of tillable land due to the new open ditch construction. The cost of damages will be shared by both watersheds (F. Kirkpatrick and E. Fugate), because both watersheds are benefitted by the open ditch. The shared cost for damages to the F. Kirkpatrick watershed landowners is $984.477 \text{ ac.} / 1799.122 \text{ ac.} = 54.72\%$ of the total damages. The cost for damages to the E. Fugate watershed landowners is $814.695 \text{ ac.} / 1799.122 \text{ ac.} = 45.28\%$ of the total damages. \$8,000.00 per acre was used as the value of the damaged land. This value was selected based on an average from recent sales of farm land in the area. Please see schedule of damages for additional details.

Respectfully Submitted by:



Zach Beasley P.S., M.S.
Tippecanoe County Surveyor

CC: file

ZEB:bjg