# **Eastwood Drain**

# **Public Informational Meeting**

Spaulding Township Hall

January 22, 2020

10:00 AM



Brian J. Wendling

Saginaw County Public Works Commissioner



#### Purpose of Meeting

 Review findings and design alternatives of engineering study

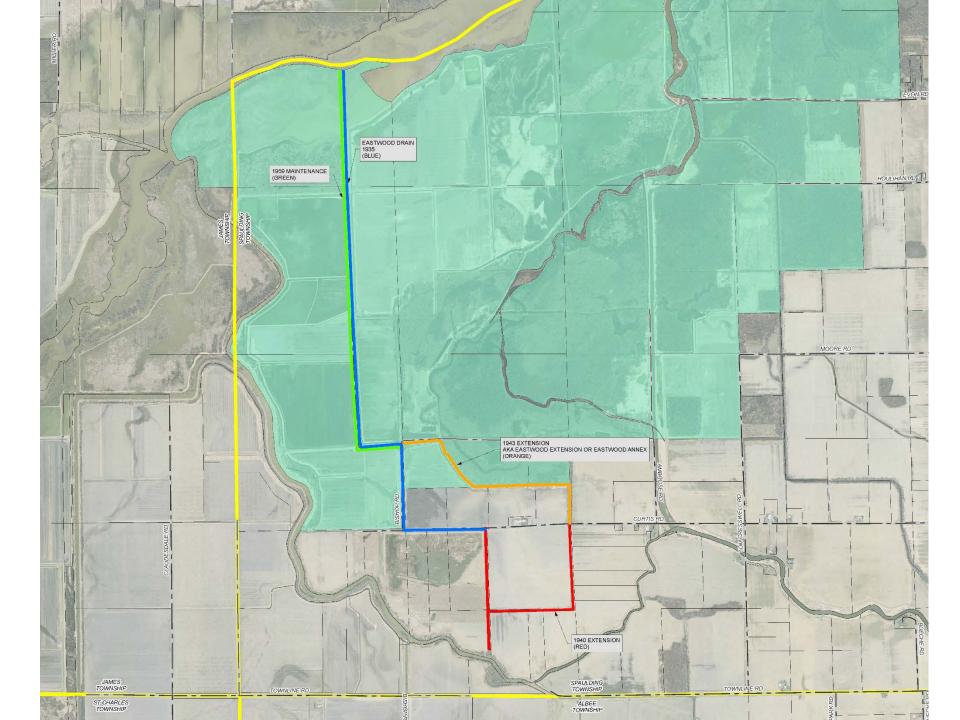
 Public Works Commissioner to receive input and comments from landowners on the drainage study

## Presentation Agenda

- Drain Background
- Existing Conditions
- Design Alternative A
- Design Alternative B
- Design Alternative C
- Next Steps
- Questions and Comments

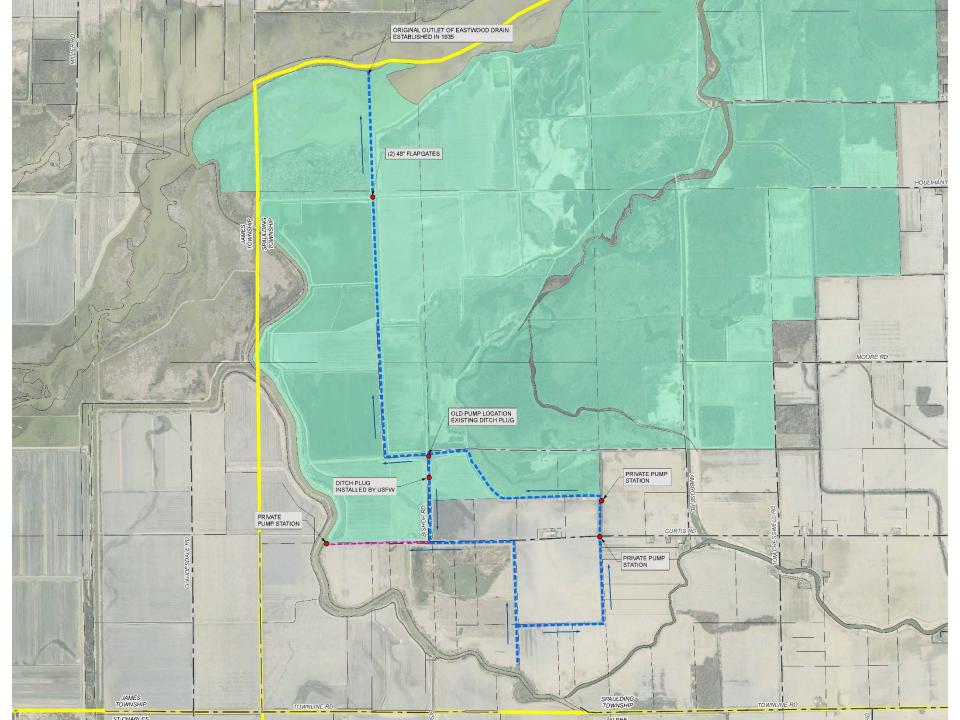
### Drain Background

- Eastwood Drain History
  - Under the jurisdiction of the Public Works Commissioner
  - Established as a county drain in 1935
  - Main drain extended in 1940
  - Eastwood Extension (Annex) added in 1943
  - Shiawassee National Wildlife Refuge established in 1953
  - Last drain project completed by SCPW in 1959 from outlet to Bishop Rd/Bartel Rd



# Existing Conditions

- (2) 48" Flapgates near outlet protect drain from backwaters from the river
- Ditch plugs along Bishop Road separate upper end of main drain from outlet
- Private pump station and private ditch provide outlet for upper end of the county drain
- 2 Private pump stations located along Eastwood Extension (Annex)
- Original drain outlet no longer functioning properly

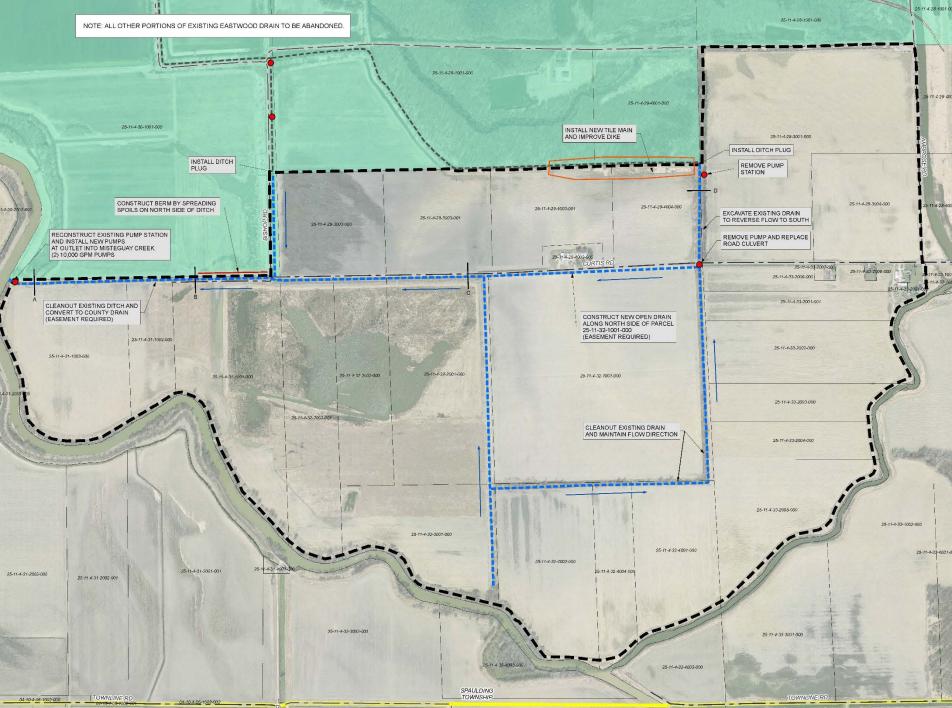


#### Design Alternative A

- 1,100 Acre Drainage District
- USFW to be separated from drainage district by installing ditch plugs on property line
- Private ditch west of Bishop Rd to be established as county drain.
- Existing private pump station to be replaced with new pump station
- Flow of existing Extension Drain will be reversed South to Curtis Rd.
- Drain will be designed to gravity flow to new pump station to allow removal of other pump stations

## Design Alternative A

- Includes:
  - Site Clearing
  - New Pump Station (To be part of county drain)
    - (2) 10,000 gpm pumps
  - Replacement of 5 Road/Drive Culverts
  - 1,200 ft. of Open Channel Construction of new drain
  - 8,150 ft. of Open Channel Excavation of existing drain
  - Installation of (2) ditch plugs near USFW property line
  - Legally abandon all other portions of existing drain
  - Planning Level Estimated Total Cost: \$ 900,000



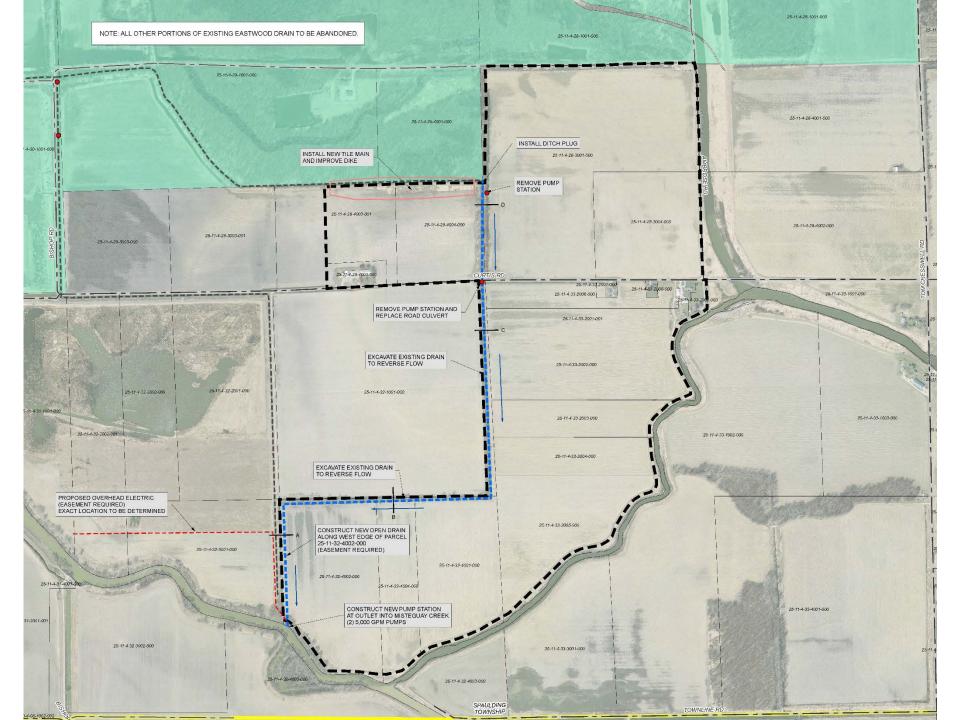
ALBEE

#### Design Alternative B

- 500 Acre Drainage District
- USFW to be separated from drainage district by installing ditch plug on property line
- New outlet to be constructed South of Curtis Road into Misteguay Creek/Flint River
- New pump station to be constructed at outlet
- Flow of existing Drain will be reversed to South
- Drain will be designed to gravity flow to new pump station to allow removal of other pump stations

#### Design Alternative B

- Includes:
  - Site Clearing
  - New Pump Station (To be part of county drain)
    - (2) 5,000 gpm pumps
  - Replacement of 1 Road Culvert
  - 1,400 ft. Open Channel Construction of new drain
  - •6,300 ft. of Open Channel Excavation of existing drain
  - Installation of ditch plug near USFW property line
  - Legally abandon all other portions of existing drain
  - Planning Level Estimated Total Cost: \$ 740,000



#### Design Alternative C

- A design alternative C was considered to reestablished original route and course of the Eastwood Drain
  - Most expensive option
  - Requires larger pumps, more culverts, more drain to maintain
  - Does not add more assessable acres to district

## Next Steps

- Landowners who wish to pursue further consideration of proposed work on the Eastwood Drain may file a petition with the Saginaw County Public Works Commissioner.
- If a petition is not received, no further action will be taken at this time.

# **Questions or Comments?**

