

# 2020 Accomplishments

- 6,850 plugs planted
- 1,775.53 gallons of herbicide solution applied
- 45.55 lbs. native seed sowed
- 620 lbs. cover crop sowed
- 46 lbs. native seed collected
- 167.81 acres prescribed burned
- 124.06 acres rough-cut mowed
- 48 individual volunteers
- 15 brush piles burned
- ll volunteer workdays
- 1.1 acres cleared of invasives
- 0 seasonal employees



### 319 Grant

- Ongoing monitoring and maintenance
  - Biannual inspections
  - Mowing
  - Herbicide application
  - Address concerns



# 319 Grant

- New erosion issues addressed
  - Grading, blanket, seed, plugs





### 319 Grant

BEFORE AFTER





#### Rt. 137 Wetland Restoration

Herbicide and prescribed burning contract





- Integrated Lakes Management
- Phragmites australis

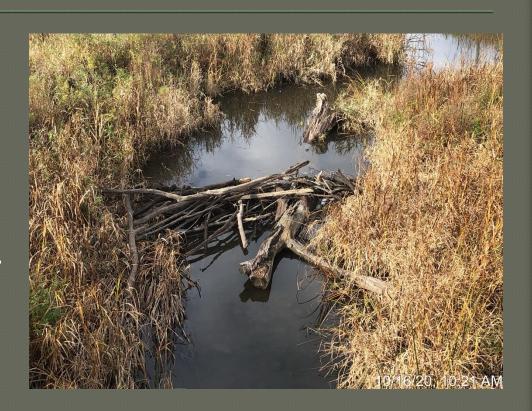
- 2 applications
- 32 Acres sprayed

#### Rt. 137 Wetland Restoration

- Future Plans:
  - Continued clearing, debris pickup, brush burning
  - Inhouse native seeding-early winter 2021
    - 30 acres, 1024.76 lbs., 34.15 lbs. per acre
  - Inhouse herbicide
    - Continued control of phragmites, transition to reed canary grass
  - Prescribed burn
    - Contractor-Spring 2021
  - Monitoring for success and future needs

### Rt. 137 Wetland Restoration-Beavers

- Lodges and dams
- Migration up stream
- Site meeting
- Partner with ComEd
- Beaver population reduction
- Begin to remove structures



### Rt. 137 Clearing – A Continuation

- Further thinning of undergrowth, dead and diseased trees, and invasive species
- Increased light penetration through canopy to understory
- Promotes prairie/savanna vegetation establishment



### Restoration Mowing

 Restoration mowing at Liberty Prairie, River, St. Mary's, Rt. 137, Oak Openings



### Prescribed Burning

- 167.81 total acres burned
- 7 in-house burn days
- Phased out 2 outdated water tanks
  - Replaced with purposebuilt setups
- Regular upgrades to fire equipment – PPE, tools, electronics, etc.



### Donnelley Prairies and Oaks



- First time burned
- 101.42 acres





# St. Mary's

#### •21.89 acres





# Oak Openings

36.8 acres



### Old School Rd.

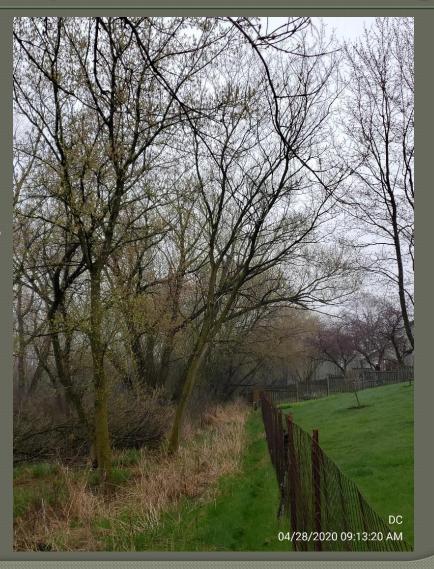
- First completed burn
- 7.7 acres





### Tree Removal Project-Canterbury

- Dead, extreme lean, prepare for inhouse clearing project
- Cleat Cut, Inc. awarded bid
- Completed in one day
- Entire south property line



### Tree Removal Project-Canterbury

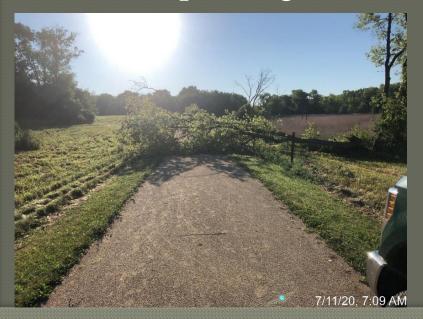






#### Other Tree Work

- Rt 137 contract (2)
- In-house removals
  - Wind/storm damage
  - Dead and dying trees
  - Tree pruning





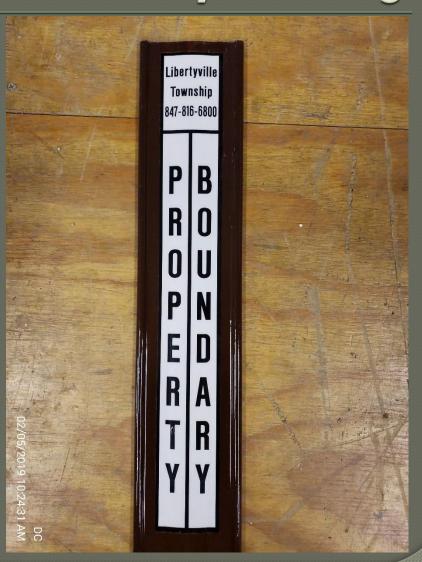
# Conservation Easement Monitoring

- Annual monitoring visits on Township held conservation easements:
  - Bott, Brennan, Getz and Maxey
- Bleck Easement
   monitoring Owner
   exercising reserved
   rights



#### Property Survey and Boundary Marking

- Annual project
- Rt. 137 Parcel
- Contracted with R.E.Decker
- Allows us to:
  - Identify encroachments
  - Accurately manage



### Egidi Lane Drainage-Before



- Flooding and drainage concern Associated issues erosion, ice, sediment Engineering services Pearson Brown



### Egidi Lane Drainage-Before





#### Egidi Lane Drainage Construction-During





- Contract awarded to Canyon Contracting, Inc.
- Redefined and graded channel, improved capacity of drainage structures
- Sediment removal deposited from upstream sources

#### Egidi Lane Drainage Construction-After



- Installed rip-rap
- Installed "trash rack"



#### Egidi Lane Drainage Construction-Restoration





- Erosion control
- Site stabilization
- Sowed native seed, installed 3,200 native plugs

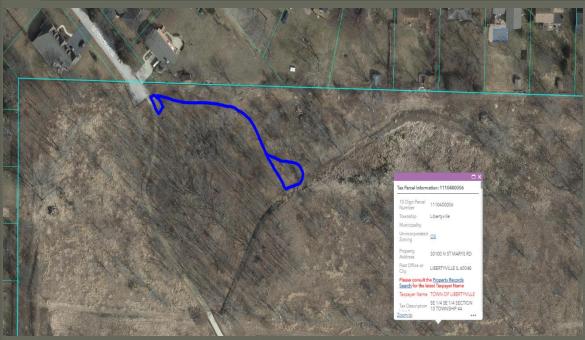
#### Egidi Lane Drainage Construction-Restoration





- Site protection
- Vegetation established
- Continued monitoring

### St. Mary's Drainage-Before





- Flooding & drainage concern
- Increased and concentrated stormwater flow
- Remedy/construction plan
- Berm reconstruction

### St. Mary's Drainage-Before





### St. Mary's Drainage-Construction

- Engineering services Pearson Brown & Associates
- Contracted with Campanella and Sons Inc.
- Tree removals, haul roads, resource protection





### St. Mary's Drainage-Construction





- Reconstruct berm to "original" conditions
  - 50 year rain event
- Re-define ditches

### St. Mary's Drainage-Construction



Compacted clay and respread topsoil

Added and shaped clay fill



### St. Mary's Drainage-Restoration

- Native seeding
- Hydromulch
- Erosion blanket





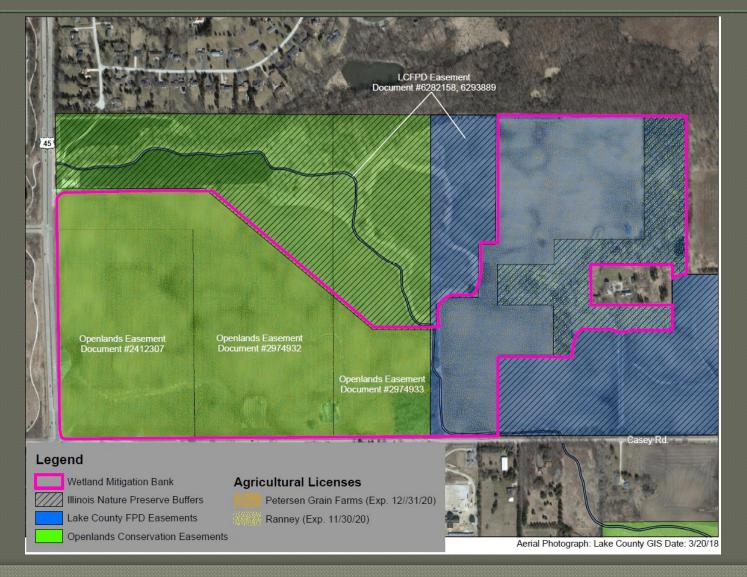
### St. Mary's Drainage-Restoration





- Will monitor during large rain events
- Seeding success
- Identify future maintenance needs

### Donnelley Mitigation Bank Planning



### Open Space Bldg. Maintenance

- Fence repairs
- New heater install
- Garage door maintenance and install photo eyes
- Vent fan repair, add bay heaters to maintenance contract



### Volunteer Herbicide Class



- Held on January 25<sup>th</sup>,
   2020
- 11 participants
- Training allows the participants to apply herbicides to invasive plants during volunteer workdays

### Volunteer Projects

- 319 Plug Planting
- Boy Scout Pack 72 SeedCollection
  - St. Mary's Rd. Open Space
- DaVita Brush Clearing
  - Oak Openings

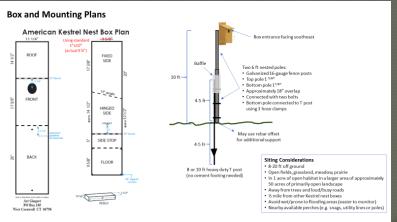




### Eagle Scout Projects-Planning

- Habitat improvement
  - Nicholas Psimaras
- American KestrelBoxes
  - Nolan Johnson
- Habitat Improvement
  - Charlie Coury





#### Additional Assistance Provided

HIGHWAY DEPARTMENT

FOOD PANTRY & GROUNDS





# Office & Planning



- Annual site management plans & presentation
- Identify budgeting needs
- Request for quotes / draft contracts
- Reporting
  - Illinois Nature Preserve Commission
  - Open Space/MS4 monthly reports
  - Grants
- Seasonal employee management
- Scheduling of maintenance
- Annual ball field permits
- Rx burning & clearing planning
- Daily logs
- NBWW and DRWW committee members

### 2021 Preview

#### Spring

- Rt. 137 wetland restoration-Prescribed burn & turn over to inhouse maintenance
- Annual turf herbicide application
- Egidi & St. Mary's drainage project monitoring
- Continue 319 Grant monitoring & maintenance
- Prescribed burn at Atkinson Rd., Canterbury & inhouse sites

#### Summer

- Continue Casey Road Restoration Phase I (Donnelley) maintenance
- Continue 319 Grant monitoring & maintenance
- Egidi & St. Mary's drainage project monitoring

#### Fall

Inhouse prescribed burns

#### Winter

· Rt. 137 wetland seeding, debris removal and continued clearing

### Thanks!

- Residents and Neighbors
- Volunteers
  - Especially Dale, Mike, Ted, & Xenia

Questions?

