



## Appendix B

### Checklist of Required Drawings with Examples

The majority of wetland restoration projects involve multiple activities requiring detailed information that can not be captured in one drawing or illustration. As such, a Project Site Plan should be submitted that shows the entire property and the general location of all proposed activities (see Sample Drawing 1). A separate Plan View drawing should be submitted for each individual activity or basin on the property. The Plan View drawing(s) should include all required information as detailed in Sample Drawing 2. If the project involves minimal activities, it may be possible to submit a combined Project Site Plan/Plan View drawing. Applicant must provide legible 8 ½" x 11" drawings. The submittal of full size drawings is encouraged for field review purposes.

*NOTE: Each of the following check boxes references a specific item of required information. An example of the required information is shown on a set of sample drawings and referenced by number.*

**Detailed Vicinity Map:** Show the project's exact location from a major highway, road, street, etc. (i.e., plat map or similar document). Indicate major landmarks or buildings near the project site if appropriate. Please keep in mind that Water Resources Division field staff must be able to find the exact location of the proposed activities based on this information.

**Project Site Plan:** The site plan must show property boundaries, existing lakes, streams, wetlands, ditches, and other water features on the applicant's property. If the project involves multiple wetland basins, it will be necessary to submit a separate Plan View drawing for each basin. Submit black and white line drawings so that they are legible when photocopied. The submittal of color or black and white aerial photographs or GIS images are very helpful and encouraged. However, aerial photographs alone are not acceptable as Project Site Plans because they are not legible after photocopying.

- North arrow and scale (Sample Drawing 1, Item 1)
- Property lines/boundaries (Sample Drawing 1, Item 2)
- Approximate locations of all existing wetlands on the applicant's property (Sample Drawing 1, Item 3)
- Approximate location of all existing lakes, streams, ditches, and/or drains located within the proposed construction/work area (Sample Drawing 1, Item 4)
- Approximate locations of all proposed dikes, ditch plugs, water control structures, drain tiles to be plugged (Sample Drawing 1, Item 5)
- Approximate location and sizes of all restored wetland boundaries (e.g., limit of flooding) (Sample Drawing 1, Item 6)
- Approximate location and sizes of all pushouts (Sample Drawing 1, Item 7)

**Plan View Drawing:** If all restored basins and project dimensions cannot be clearly shown on the Project Site Plan, submit a separate Plan View drawing for each basin.

- North arrow and scale, if applicable (Sample Drawings 2 and 5, Item 1)



- Property lines/boundaries within the vicinity of the restored wetland basin. (Sample Drawings 2 and 5, Item 2)
- Approximate locations and size (acres) of all existing wetlands impacted by the proposed activities, and include dominant wetland types (i.e., emergent, scrub shrub, forested, and farmed wetland). Provide species name for wetland areas dominated by invasive species (i.e., reed canary grass, *Phragmites*, etc). (Sample Drawings 2 and 5, Item 3)
- Approximate location of all existing streams, ditches, drains, and other water features impacted by the proposed activities. (Sample Drawings 2 and 5, Item 4)
- Approximate location of all proposed dikes, ditch plugs, water control structures, spillways, and drain tiles to be plugged. State dimensions (length, width, depth, and cubic yards for each area) under label. (Sample Drawings 2 and 5, Item 5)
- Approximate location of wetland fill for all proposed dikes, ditch plugs, water control structures, spillways, and drain tiles to be plugged. State dimensions (length, width, depth, and cubic yards for each area) under label. (Sample Drawings 2 and 5, Item 6)
- Approximate location and size (acres) of all restored wetland boundaries (e.g., limit of flooding). (Sample Drawings 2 and 5, Item 7)
- All proposed excavation or dredging (borrow areas or pushouts) within regulated areas with dimensions (length, width, depth, and cubic yards for each area). (Sample Drawing 2, Item 8)
- Location of dredging disposal areas. Provide dimensions for the spoils area (length, width, depth, and cubic yards for each area). (Sample Drawings 2 and 5, Item 9)
- Location of all cross sections for all berms, borrow areas, and pushouts within regulated areas. (Sample Drawings 2 and 5, Item 10)
- 100-year floodplain boundary and elevation (see Appendix 1 Floodplain Information to determine if the project will impact a 100-year floodplain).

**Cross Section Views:** The cross section views must represent the actual work proposed in the field. To qualify for a Part 303, Wetlands Protection, General Permit, at least 50 percent of the surface area of the pushout shall have a water depth of no more than 18 inches and the maximum depth of the pushout shall be no more than 72 inches. Provide cross section views of all proposed berm/dike(s), ditch plugs, pushout(s), and wetland borrow areas that include the following information:

- Base width of the berm/dike. (Sample Drawings 3 and 6, Item 1)
- Top width and elevation of the berm/dike. (Sample Drawings 3 and 6, Item 2)
- Proposed height of dike. (Sample Drawings 3 and 6, Item 3)
- Proposed side slopes for the berm/dike. (Sample Drawings 3 and 6, Item 4)
- Outlet or outlet structure (pipes and risers) with the lengths and size (diameter) of the pipes and risers, if applicable. (Sample Drawing 3, Item 5)
- Proposed design pool elevation and emergency spillway elevation, if different. (Sample Drawings 3 and 6, Item 6)
- Proposed average water depth of restored wetland. (Sample Drawings 3 and 6, Item 7)  
Projects inundating existing good quality wetlands may require detailed cross-sectional drawings of water depths in the restored wetland area.



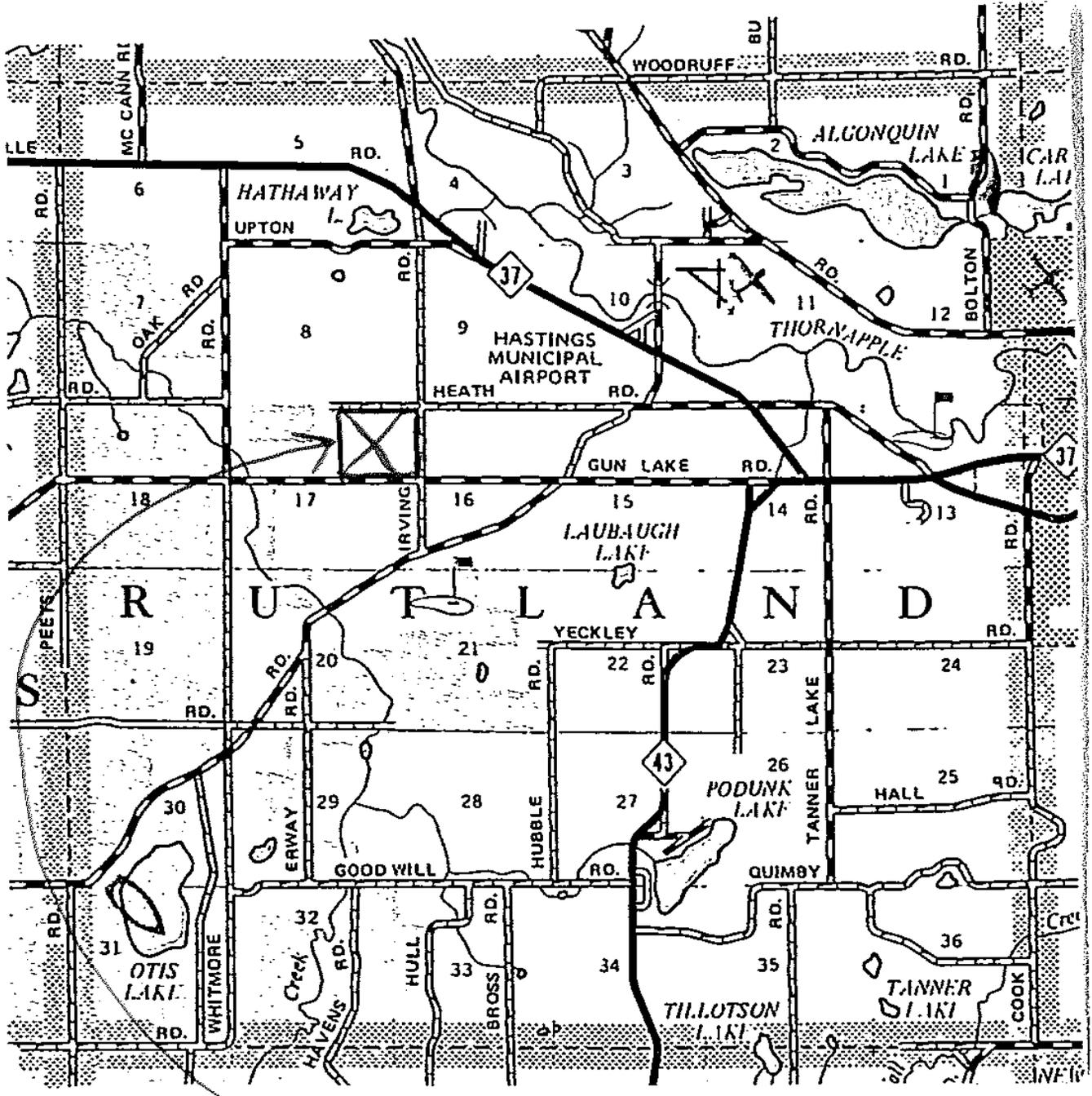
- All proposed excavation or dredging within regulated areas (borrow areas or pushouts) with dimensions (length, width, and depth). (Sample Drawing 3, Item 8)

**Profile(s)** of the proposed dikes and wetlands that include the following:

- Specify the location and elevation of the water control structure and the outlet pipe within the berm. (Sample Drawing 4, Item 1)
- Existing ditch/channel bottom. (Sample Drawings 4 and 7, Item 2)
- Top of berm with elevation, design pool elevation, and proposed emergency spillway elevation. (Sample Drawings 4 and 7, Item 3)
- Show proposed wetland fill area with cross hatching or shading. (Sample Drawings 4 and 7, Item 4)



# Rutland Township T3N, R9W

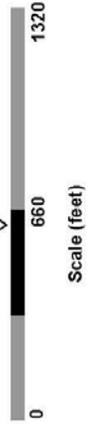
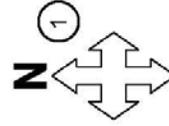
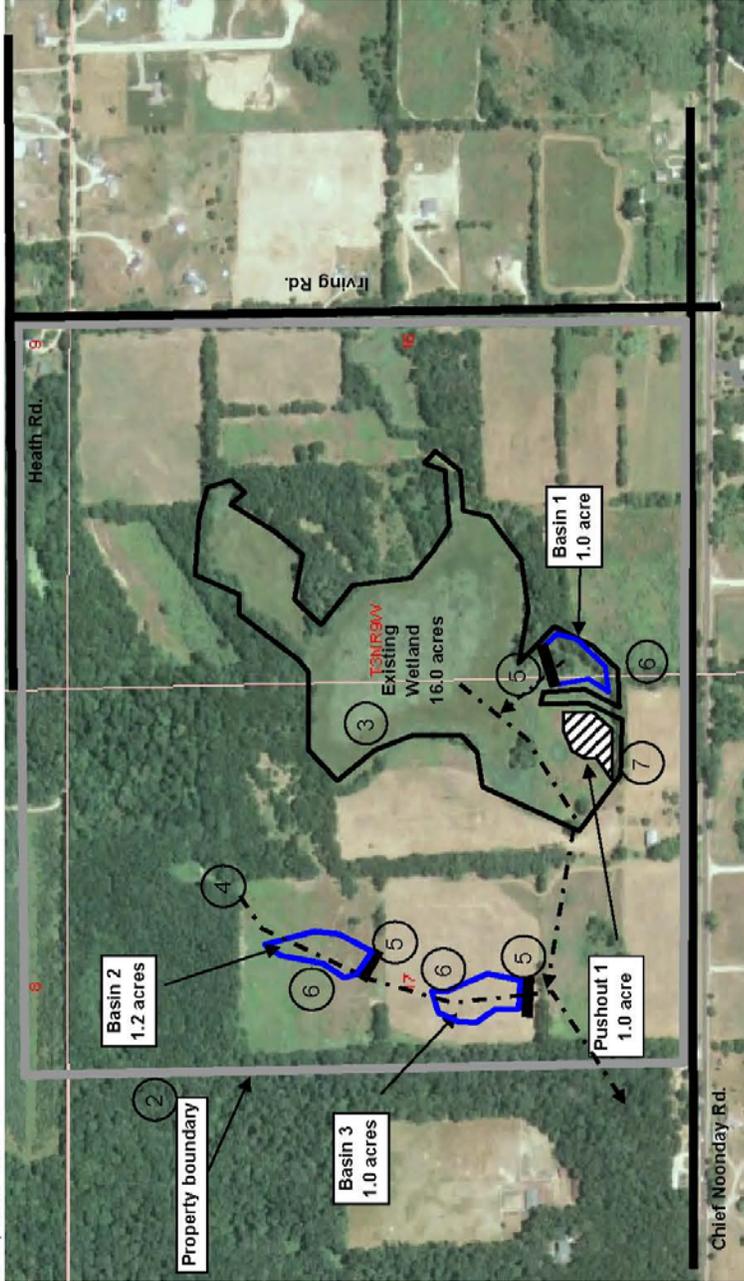


## Project Location Vicinity Map



### Optional Project Site Plan (aerial overview)

Name: John Doe Wetland Restoration Project  
 County: Barry  
 Township: Rutland  
 TRS: T 3 N, R 9 W, Sec 16 and 17  
 Page No. 1 of 7



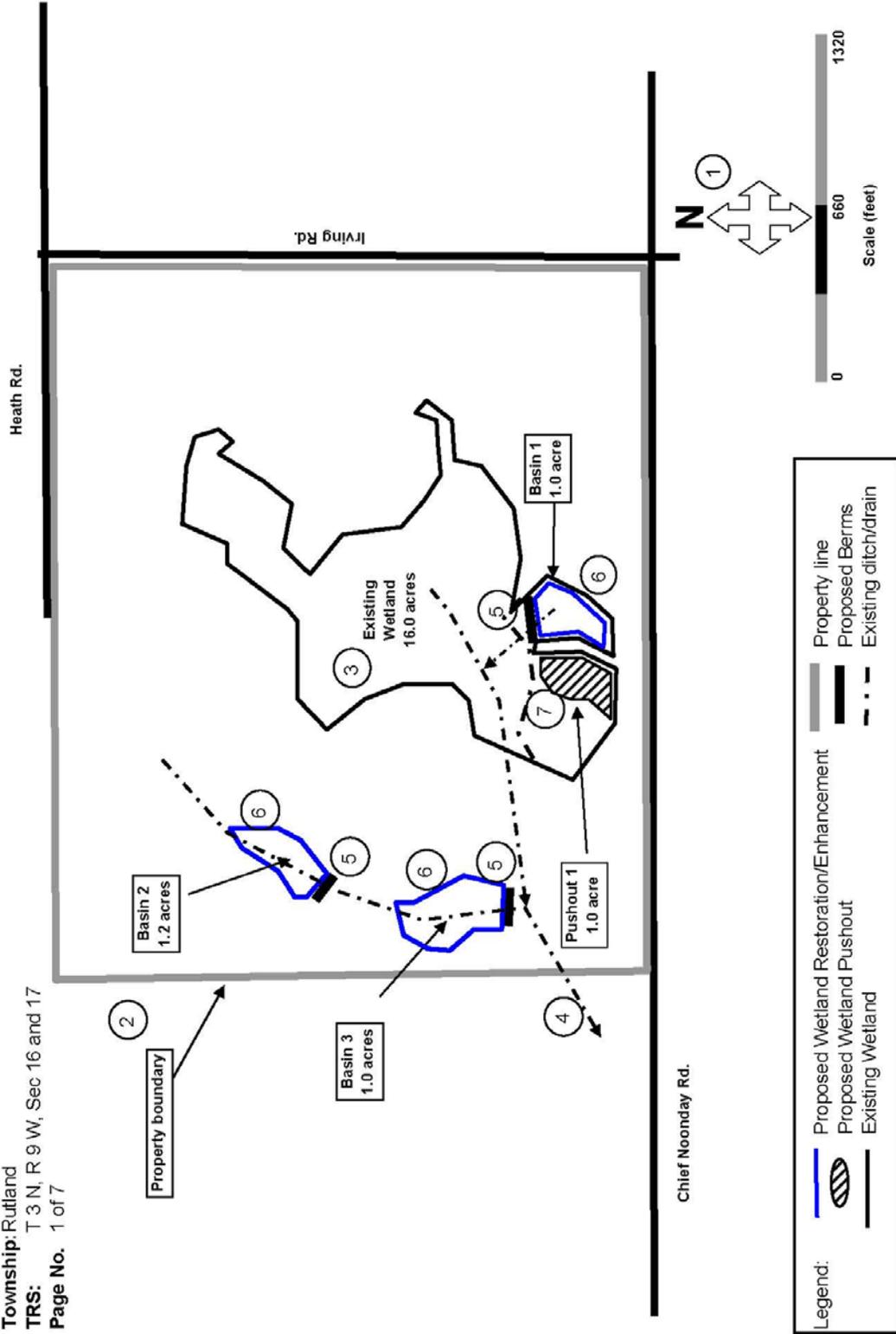
	Proposed Wetland Restoration/Enhancement		Property line
	Proposed Wetland Pushout		Proposed Berms
	Existing Wetland		Existing ditch/drain



# Sample Drawing 1

## Project Site Plan (overview)

**Name:** John Doe Wetland Restoration Project  
**County:** Barry  
**Township:** Rutland  
**TRS:** T 3 N, R 9 W, Sec 16 and 17  
**Page No.** 1 of 7

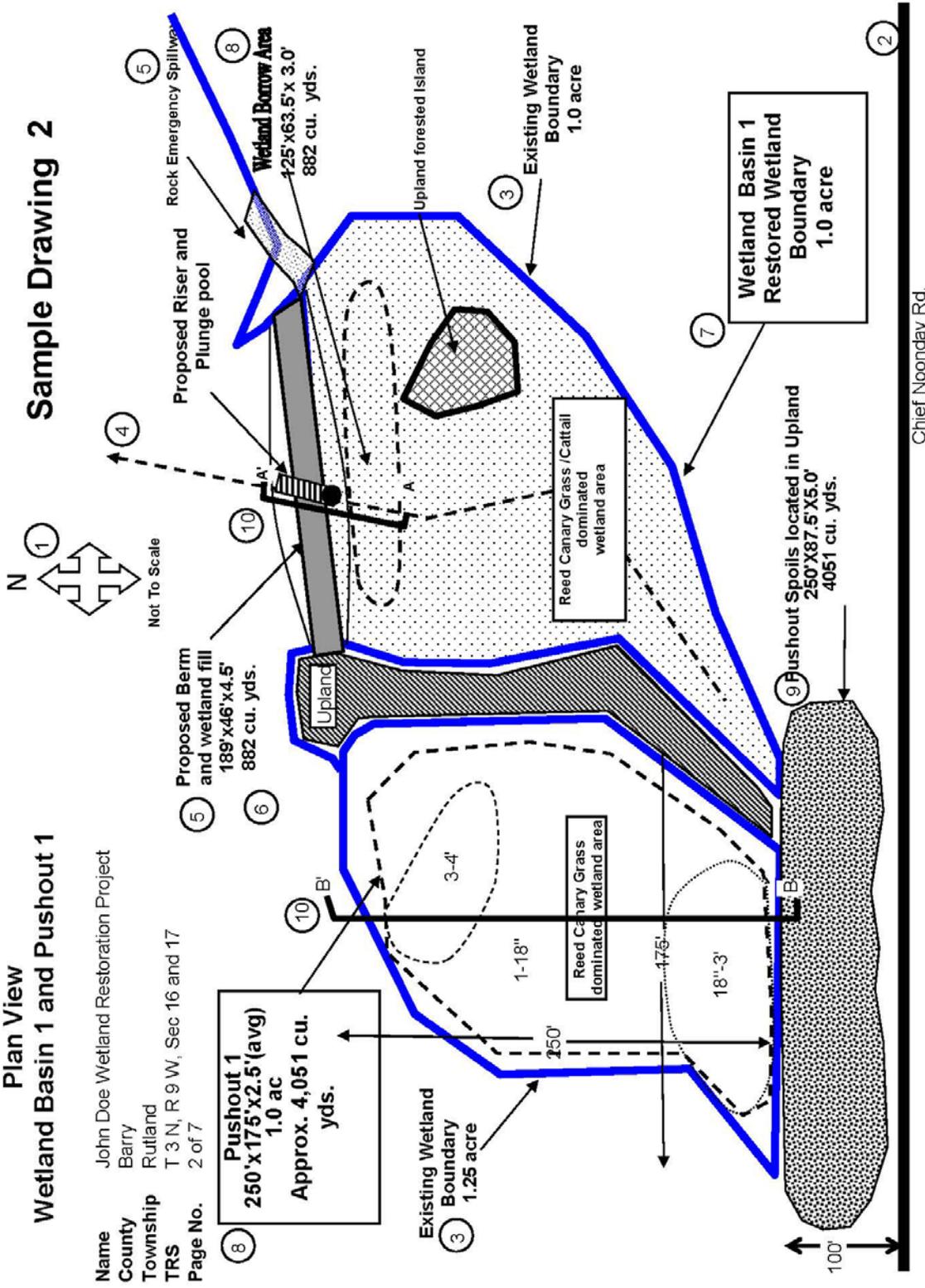




# Plan View Wetland Basin 1 and Pushout 1

Name John Doe Wetland Restoration Project  
 County Barry  
 Township Rutland  
 TRS T 3 N, R 9 W, Sec 16 and 17  
 Page No. 2 of 7

## Sample Drawing 2

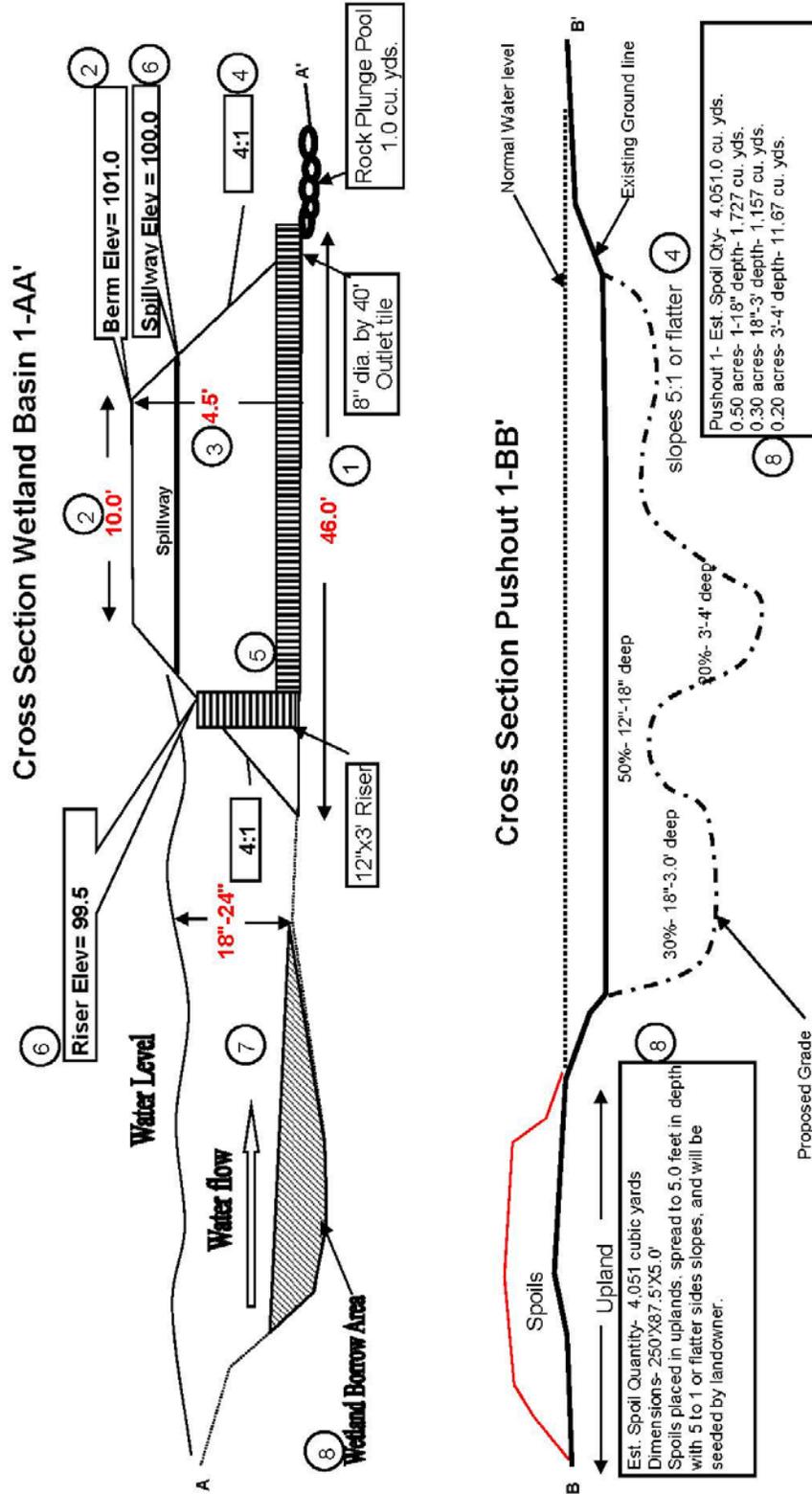




# Sample Drawing 3

## Cross Section Views Wetland Basin 1 and Pushout 1

Name John Doe Wetland Restoration Project  
 County Barry  
 Township Rutland  
 TRS T 3 N, R 9 W, Sec 16 and 17  
 Page No. 3 of 7

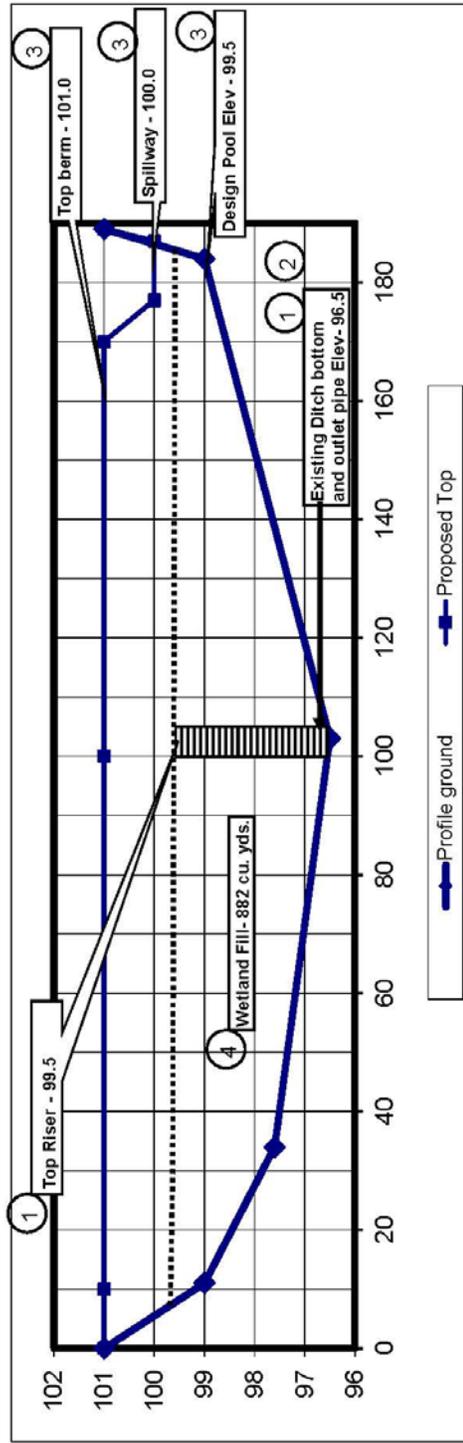




# Sample Drawing 4

## Berm Profile Wetland Basin 1

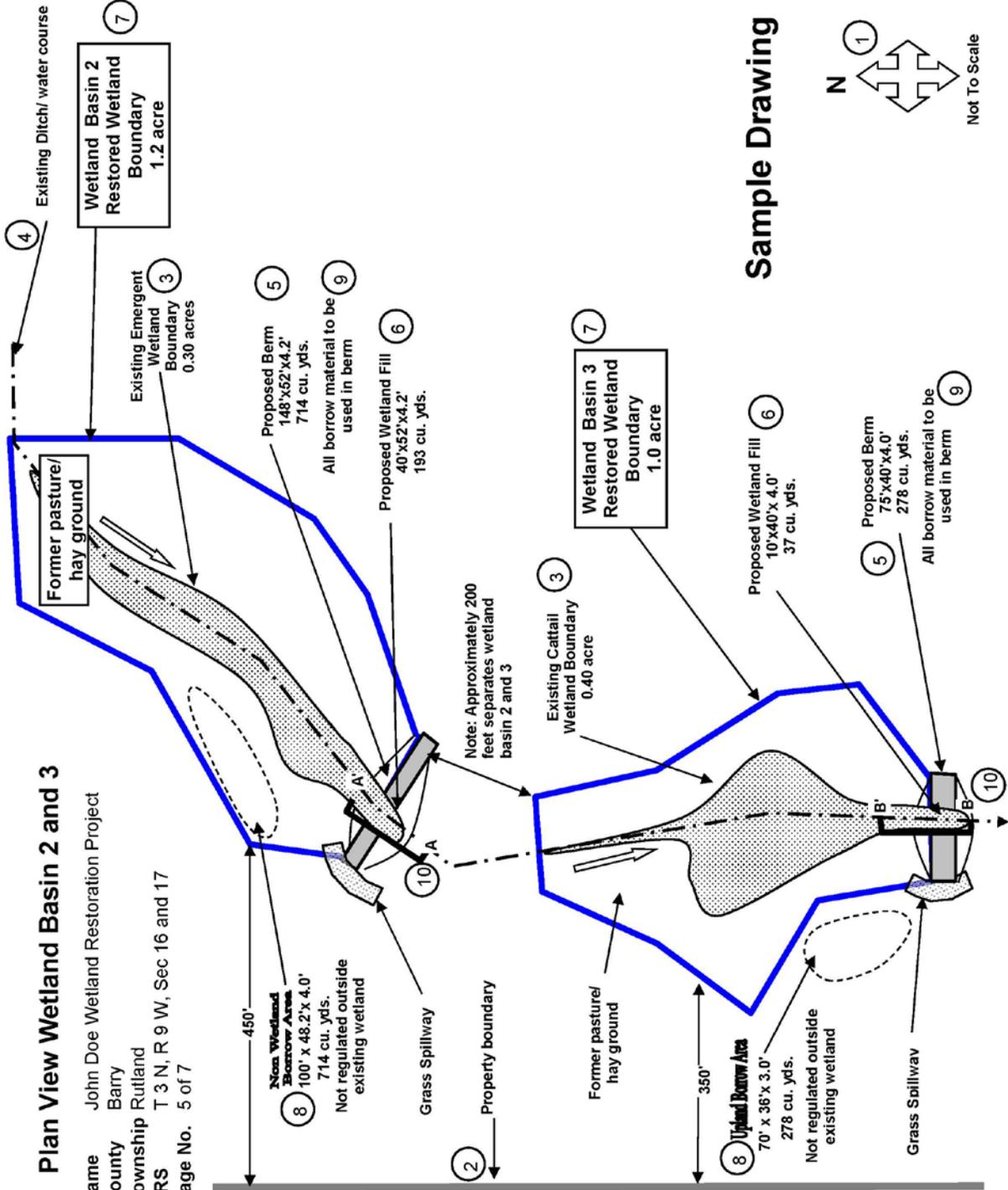
Name John Doe Wetland Restoration Project  
 County Barry  
 Township Rutland  
 TRS T 3 N, R 9 W, Sec 16 and 17  
 Page No. 4 of 7



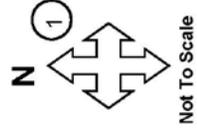


### Plan View Wetland Basin 2 and 3

Name John Doe Wetland Restoration Project  
 County Barry  
 Township Rutland  
 TRS T 3 N, R 9 W, Sec 16 and 17  
 Page No. 5 of 7



### Sample Drawing 5





# Sample Drawing 6

## Cross Section Views Wetland Basin 2 and 3

Name John Doe Wetland Restoration Project  
 County Barry  
 Township Rutland  
 TRS T 3 N, R 9 W, Sec 16 and 17  
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