



Indiana Department of Environmental Management Office of Water Quality Wetlands Section

Publication Date:
September 18, 2020

Closing Date:
October 9, 2020

IDEM ID Number:
2020-618-56-MTM-A

Corps of Engineers ID Number:

PUBLIC NOTICE

To all interested parties:

This letter shall serve as a formal notice of the receipt of an application for **Section 401 Water Quality Certification** by the Indiana Department of Environmental Management (IDEM). The purpose of the notice is to inform the public of active applications submitted for water quality certification under Section 401 of the Clean Water Act (33 U.S.C. § 1341) and to solicit comments and information on any impacts to water quality related to the proposed project. IDEM will evaluate whether the project complies with Indiana's water quality standards as set forth at 327 IAC 2.

1. Applicant: The Nature Conservancy
620 Ohio Street
Indianapolis, IN 46202

2. Agent:

3. Project location: Unit I - Latitude: 41.051367, Longitude: -87.499874 (Southeast Quadrant of the intersection of CR400N and CR600W in Newton County)
Unit E - Latitude: 41.063869, Longitude: -87.458468 (Northeast Quadrant of the intersection of CR400N and CR400W in Newton County).

4. Affected waterbody: Unnamed Tributaries to Lawler Ditch, Houseworth Ditch and Bogus Ditch.

5. Project Description: TNC enrolled two fields in NRCS' permanent Wetland Reserve Easement program the Kankakee Sands Preserve. Both fields are currently in row crop agriculture and will be restored to wetlands. When complete, this restoration will connect Conrad Savanna Nature Preserve and Beaver Lake Prairie Nature Preserve through the Kankakee Sands restoration to Willow Slough Fish and Wildlife Area. This will create over 20,000 acres of wetlands, sedge meadows, dry, mesic and wet sand prairies, and black oak savannas - one of the largest conservation areas in the entire Central Tallgrass Prairie ecoregion.

Wetland restoration plans include:

Unit I (west field, 324 acres): In the fall of 2020, ditch plugs and water control structures will be installed on the outlets of four privately managed agricultural ditches (150 LF each, total 600 LF) to restore wetland hydrology to adjacent agricultural fields. In winter 2020-21, the site will be seeded with high diversity native plant mixes designed for three hydric zones: wet-mesic, mesic and dry-mesic.

Unit E (east field, 514 acres): In the fall of 2021, three internal, privately managed agricultural ditches will be filled (total 6,950 LF) and a 12.6 acre macro will be excavated to restore wetland hydrology to adjacent agricultural fields. In winter 2021-22, the site will be seeded with high diversity native plant mixes designed for three hydric zones: wet-mesic, mesic and dry-mesic.

Comment period:

Any person or entity who wishes to submit comments or information relevant to the aforementioned project may do so by the closing date noted above. Only comments or information related to water quality or potential impacts of the project on water quality can be considered by IDEM in the water quality certification review process.

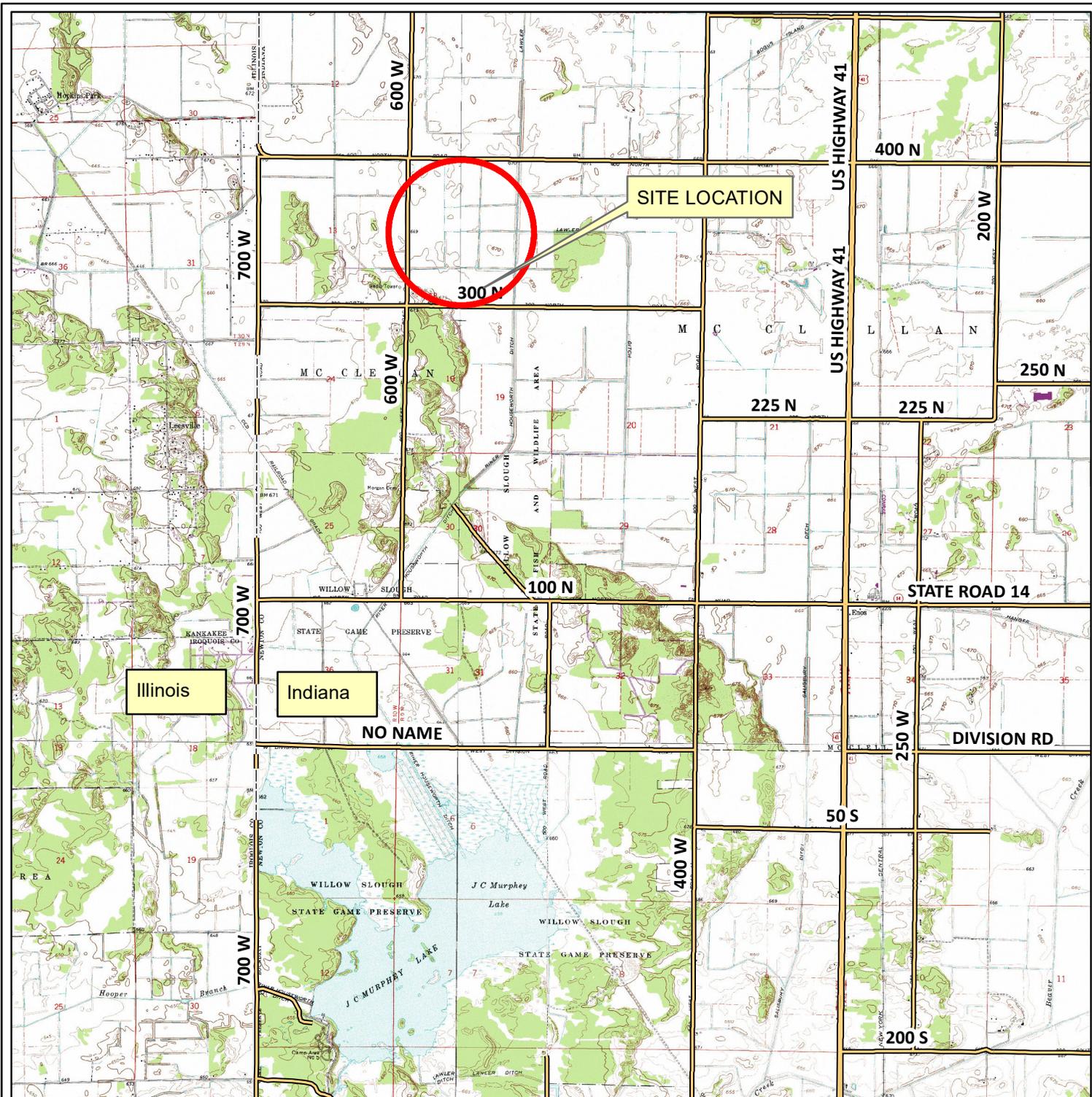
Public Hearing:

Any person may submit a written request that a public hearing be held to consider issues related to water quality in connection with the project detailed in this notice. The request for a hearing should be submitted within the comment period to be considered timely. The request should also state the reason for the public hearing as specifically as possible to assist IDEM in determining whether a public hearing is warranted.

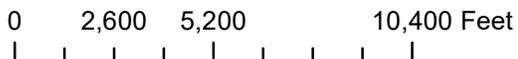
Questions?

Additional information may be obtained from Marty Maupin, Project Manager, by phone at 317-233-2471 or by e-mail at mmaupin@idem.in.gov. Please address all correspondence to the project manager and reference the IDEM project identification number listed on this notice. Indicate if you wish to receive a copy of IDEM's final decision. Written comments and inquiries may be forwarded to -

Indiana Department of Environmental Management
100 North Senate Avenue
MC65-42 WQS IGCN 1255
Indianapolis, Indiana 46204-2251 FAX: 317/232-8406



1 inch = 5,000 feet



Legend

— Newton Roads (IOT 2012)



Location Map
TNC

Newton Co. SWCD, Indiana
Section 18, T 30N, R 9W

| | | | |
|----------|-------------------|------|------|
| Designed | _____ P. Glassman | Date | 3-20 |
| Drawn | _____ P. Glassman | | 3-20 |
| Checked | _____ JLC | | 3/20 |
| Approved | _____ | | |
| Title | _____ | | |



Ditch Plug #1
6' Structure Height

Ditch Plug #2
6' Structure Height

Ditch Plug #3
8' Structure Height

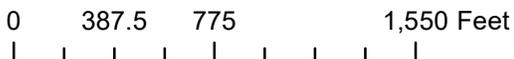
Ditch Plug #4
6' Structure Height

1 inch = 737 feet

Note: Water level will be maintained by landowner to ensure no damage to neighboring property nor any water backs up to county roads or through county culverts.

Legend

- Water Control Structure
- Ditch Plug
- Newton Roads (IOT 2012)



United States
Department of
Agriculture

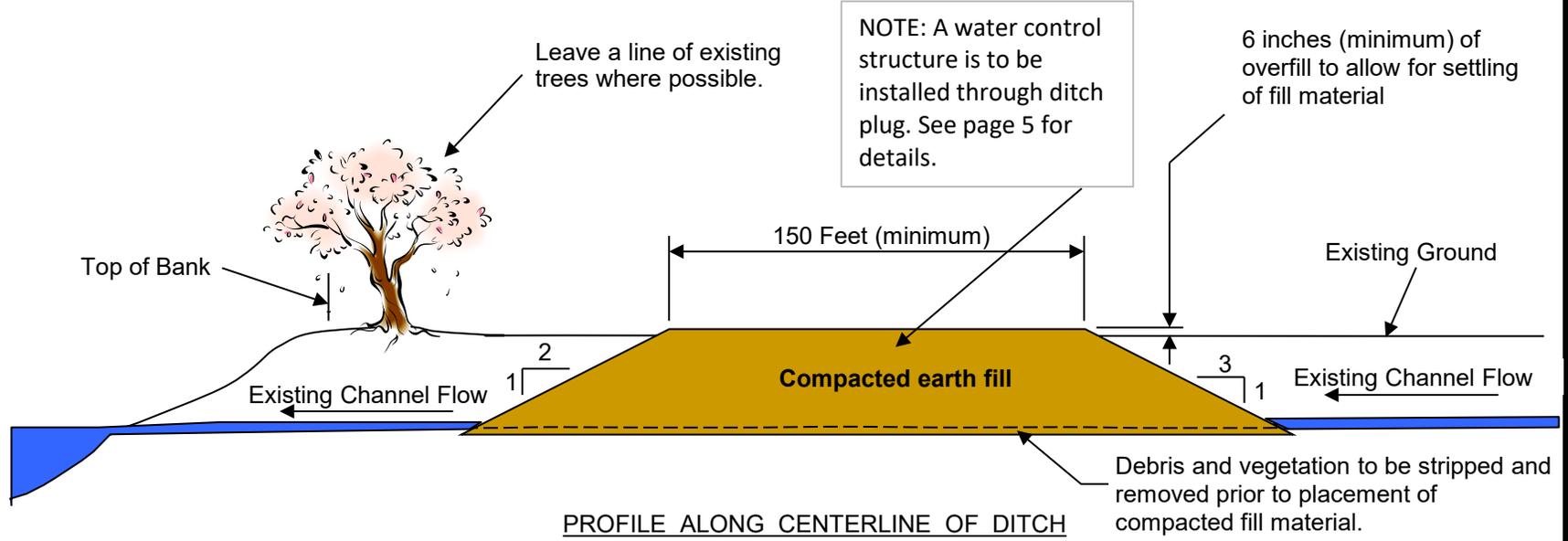
Plan View
TNC T-11283 "I"

Newton Co. SWCD, Indiana
Section 18, T 30N, R 9W

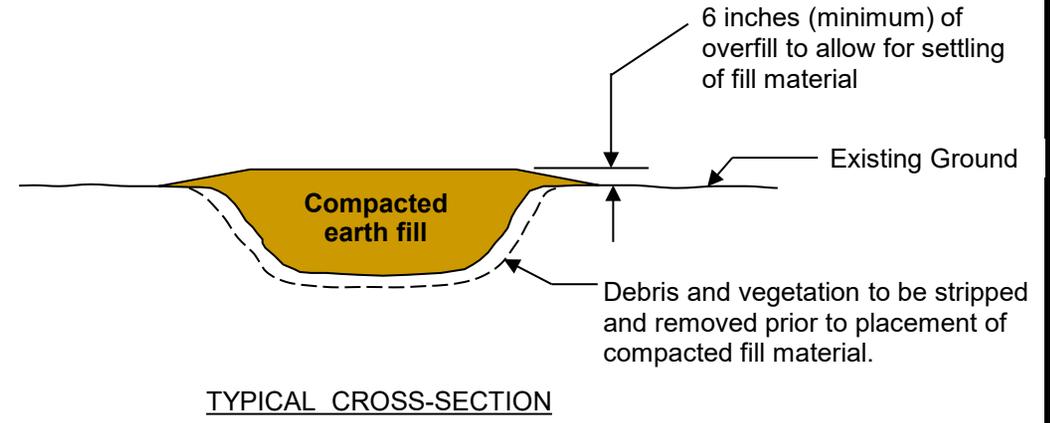
| | | | |
|----------|-------------------|------|------|
| Designed | _____ P. Glassman | Date | 3-20 |
| Drawn | _____ P. Glassman | | 3-20 |
| Checked | _____ JLC | | 3/20 |
| Approved | _____ | | |
| Title | _____ | | |

DITCH PLUG
 Landuser: TNC
 Location: McClellan Twp.
 Newton
 County SWCD, INDIANA
 Section 18 T 30N R 9W

Designed: P. Glasman
 Drawn: J.C.
 Checked: J.C.
 Approved: J.C.
 Title: _____
 Date: 8/18
 3/20



1. The side slopes and bottom of the channel, and the borrow areas shall be stripped of debris and vegetaton. Stripped material not suitable for use as topsoil shall be stockpiled and then placed in the borrow pits for final disposal. If clearing of woody growth is required, the material may be disposed of by burning or burying, in accordance with all governing regulations.
2. Topsoil from the work areas shall be salvaged, stockpiled, and then used to place a four (4) inch layer of topsoil over the top of the completed ditch plug.
3. Earthfill material for the ditch plug shall come from designated borrow areas or required excavatons.
4. The ditch plug shall be constructed in six (6) inch layers with each layer being compacted by four (4) or more passes of the earthmoving equipment over the entire surface of each layer.
5. The completed ditch plug and disturbed areas outside the water impoundment area shall be seeded and mulched according to the specifications.
6. **A water control structure will be installed through the ditch plug. See page 5 for details.**



NRCS
 Natural Resources Conservation Service
 United States Department of Agriculture

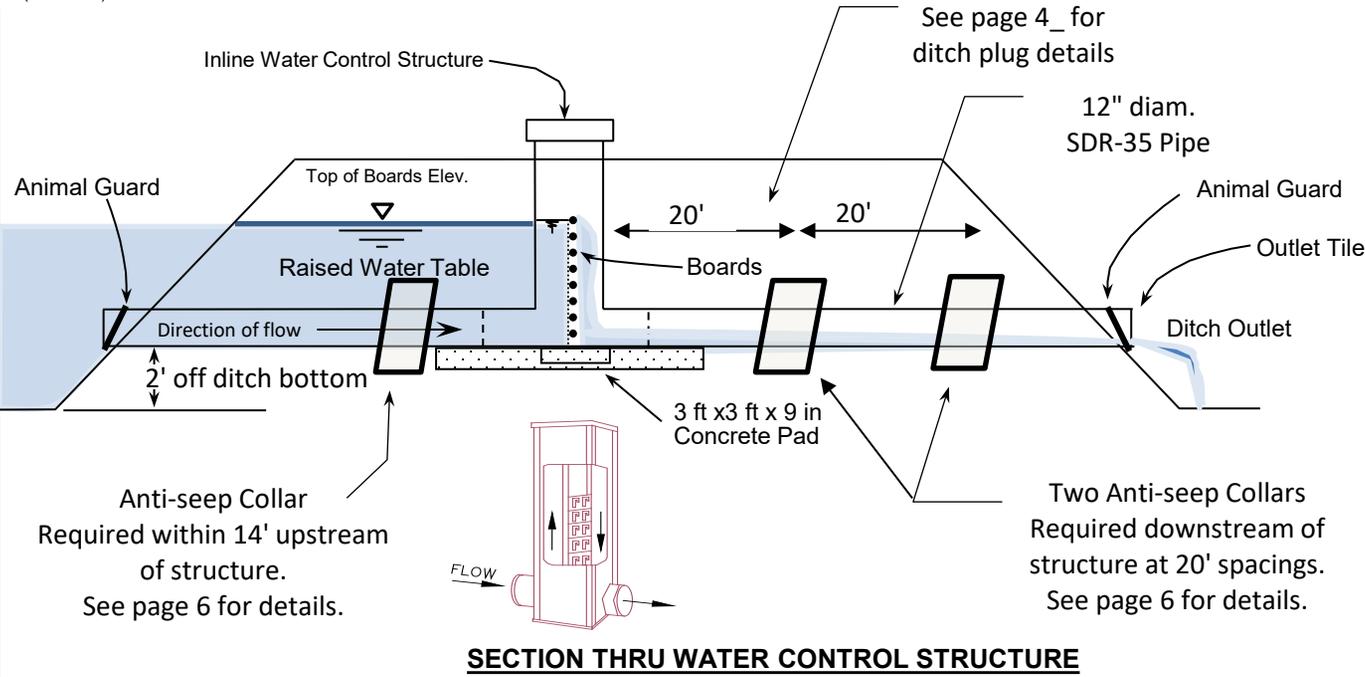
WATER CONTROL STRUCTURE

Landuser: TNC
 Location: McClellan Twp.
 Section: 18 T 30N R 9W
 County: SWCD, INDIANA

Designed: P. Ciesgen
 Drawn: Ryan Lezenby
 Checked: JLC
 Approved: _____
 Title: _____

Date: 8/18
 1/17
 3/20

Sheet 5 of 8

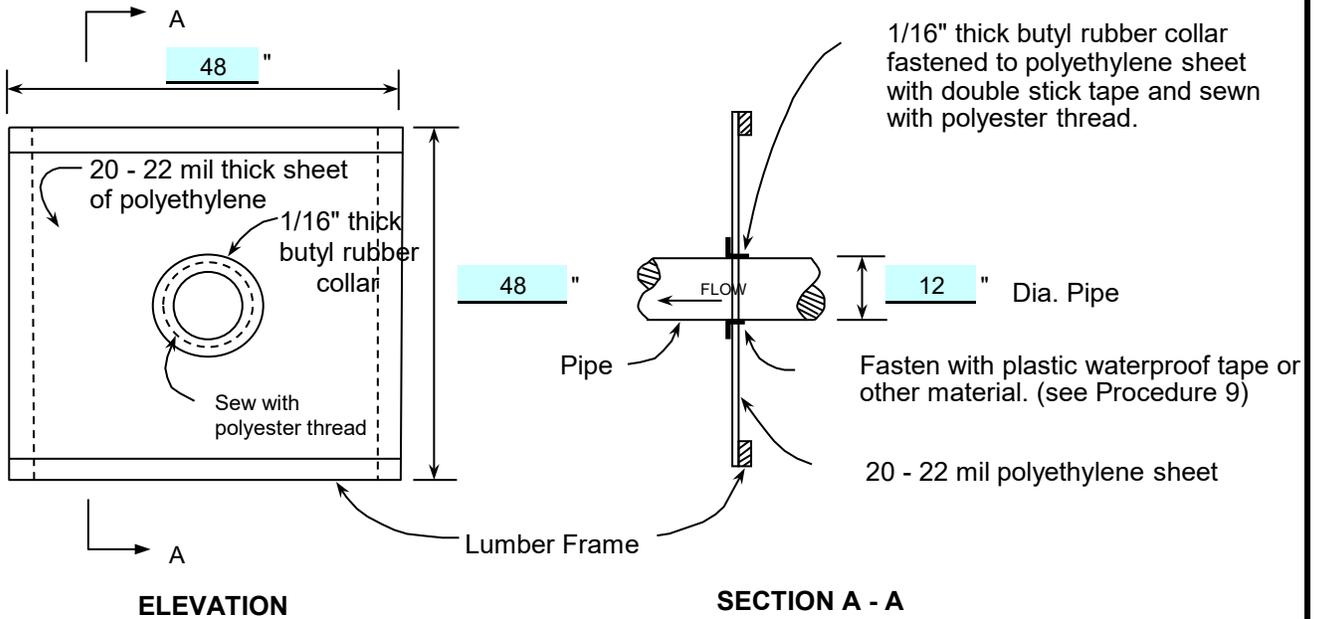


www.agridrain.com
 1-800-232-4742

CONSTRUCTION NOTES:

1. The water control riser shall be an Inline Water Level Control Structure™ manufactured by Agri-Drain Corp, Adair, Iowa or equivalent.
2. Seed and mulch the completed earthfill according to the NRCS specifications.
3. Dimensions apply to all water control structures on site. See plan map for locations.
4. The height of the structures #1, #2 and #4 will be 6' and structure #3 will be 8'
5. Height determined by survey and LiDAR measurements.
6. Fit water control structure to 12" pipe diameter.
7. The soil will not hold an in-line structure without a cement base. Under certain conditions structure can float or shift. Pipe is set into the concrete 6" with 3" under the pipe.
8. Make sure there is an animal guard on outlet end of tile into ditch
9. An anti-seep collar is required upstream and downstream of the structure. See page __ for details.
10. Exact location of structure within ditch plug may vary to meet most accessible site.

Note: Water level will be maintained by landowner to ensure no damage to neighboring property nor any water backs up to county roads or through county culverts.

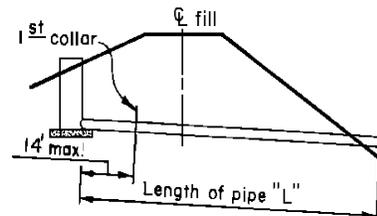
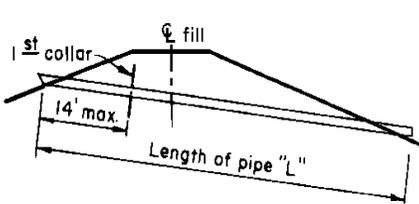


CONSTRUCTION PROCEDURE:

1. Cut polyethylene sheet to required dimensions shown for anti-seep collar.
2. Cut a hole in center of polyethylene sheet to OD of pipe.
3. Cut butyl rubber collar 8" larger than OD of pipe.
4. Cut hole in center of butyl collar 3" smaller than OD of pipe.
5. Fasten butyl rubber collar to polyethylene sheet with double-stick tape so that holes are concentric and sew together with polyester thread through tape.
6. Place mastic or roofing cement at location on pipe for anti-seep collar.
7. Force butyl rubber collar and polyethylene sheet over upstream end of pipe, move to location where mastic or roofing cement is applied, and position anti-seep collar in place.
8. Fasten to frame as shown, with staples or roofing nails, or use other methods to hold anti-seep collar in place during placement of compacted backfill.
9. Fasten butyl collar to pipe with plastic waterproof tape, stainless steel band, nylon rope or other similar material.
10. Apply mastic or roofing cement over threads and fastening to insure that installation is watertight.

NOTE:

Can use heavy duty polyethylene sheets for anti-seep in lieu of the above alternative.



DRAWING NO. IN-ENG-30.XLS (REV. 3/04)

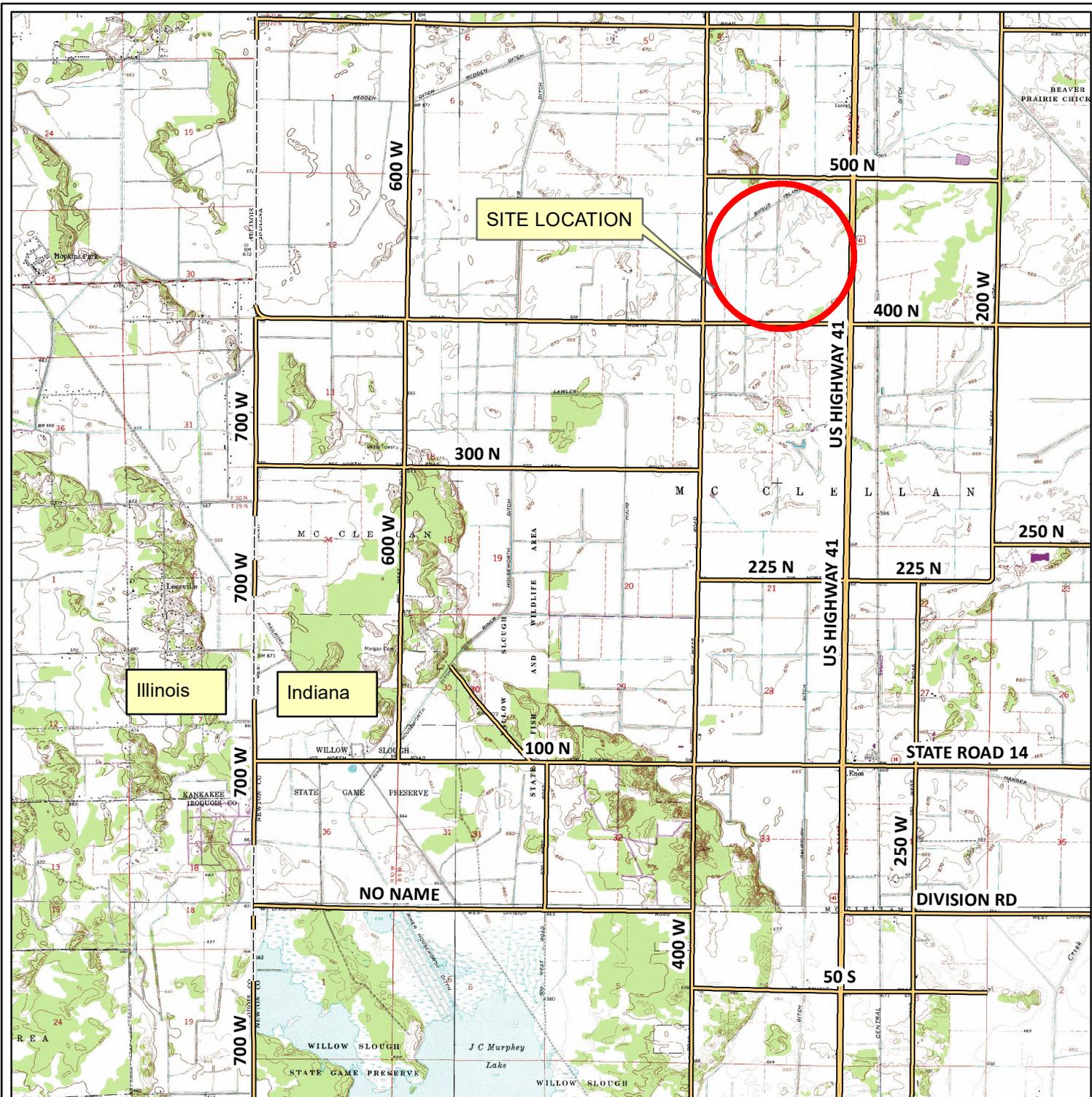


DETAILS OF POLYETHYLENE ANTI-SEEP COLLAR

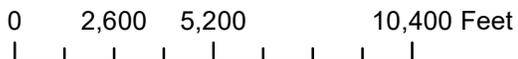
| | |
|----------|----------------------|
| Landuser | TNC |
| Location | McClellan Twp. |
| Newton | County SWCD, INDIANA |
| Section | 18 T 30N R 9W |

| | | | |
|----------|-------------|------|--|
| Designed | P. Glassman | Date | |
| Drawn | | | |
| Checked | JLC | 3/20 | |
| Approved | | | |
| Title | | | |

Sheet 6 of 8



1 inch = 5,000 feet



Legend

— Newton Roads (IOT 2012)



**Location Map
TNC**

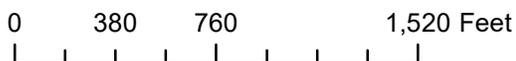
Newton Co. SWCD, Indiana
Section 18, T 30N, R 9W

| | | | |
|----------|-------|-------------|------|
| Designed | _____ | P. Glassman | 3-20 |
| Drawn | _____ | P. Glassman | 3-20 |
| Checked | _____ | | |
| Approved | _____ | | |
| Title | _____ | | |

Date



1 inch = 720 feet



Legend

-  Ditch Plug
-  Easement Boundary
-  Proposed Macro
-  Spoils
-  Newton Roads (IOT 2012)

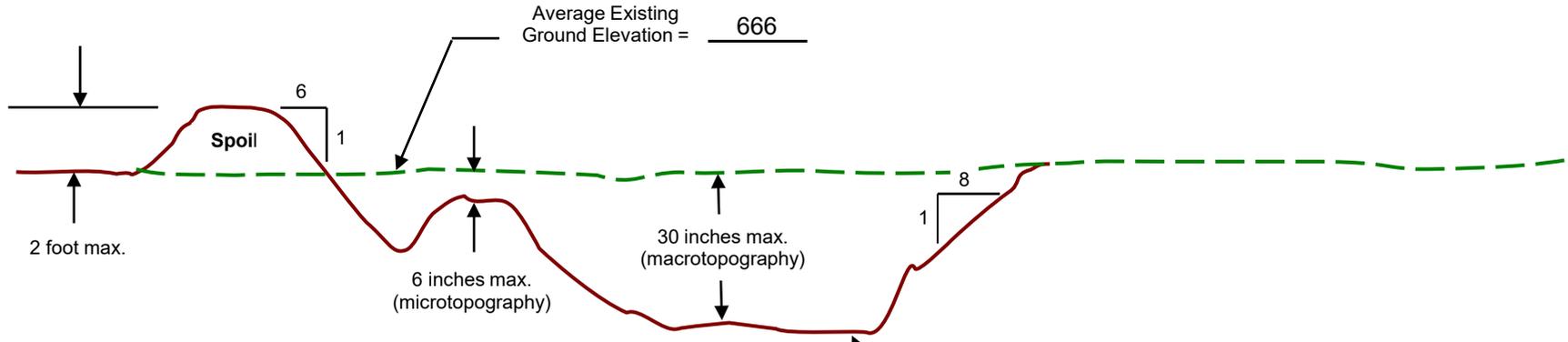


**United States
Department of
Agriculture**

**Plan Map
TNC**

Newton Co. SWCD, Indiana
Section 18, T 30N, R 9W

| | | | |
|----------|-------------------|------|------|
| Designed | _____ P. Glassman | Date | 3-20 |
| Drawn | _____ P. Glassman | | 3-20 |
| Checked | _____ JLC | | 3/20 |
| Approved | _____ | | |
| Title | _____ | | |



| | | | |
|-------------------------------|---------------|-------------|---|
| Macro # | <u>1</u> | | |
| Excavation Area= | <u>12.6</u> | acres | |
| Top Width of Excavation= | <u>1,000</u> | feet | (outside edge to outside edge) |
| Top Length of Excavation= | <u>550</u> | feet | (outside edge to outside edge) |
| Volume of Excavated Material= | <u>40,656</u> | cubic yards | |
| | | | Maximum Excavation Elevation = <u>663.5</u> |

Typical Cross-Section of Excavated Wetland

Landuser: TNC T-11326
 Location: McClellan Twp
 Section: Newton County SWCD, Indiana
18 T 30N R 9W

Designed: P. Glassman 3/20
 Drawn: _____
 Checked: JLC
 Approved: _____
 Title: _____

CONSTRUCTION NOTES

- Strip 6 inches of topsoil prior to excavation and/or spoil placement and stockpile in accessible area(s). Use stockpiled topsoil to spread over excavated areas and spoil areas to facilitate vegetative establishment.
- See plan map for shape and location of excavation(s) and spoil placement.
- When excavated material is used for construction of an embankment, excavation shall be at least 20 feet from inside edge of embankment. See right side of typical cross-section above.
- Excavations shall be obtained over a large area, to keep depths to a minimum. The total surface area of the wetland shall not exceed 30 inches in water depth, with average depth of excavated areas not to exceed **30** inches. See elevations above.
- Side slopes of excavated areas shall be 8:1 or flatter if historic slopes cannot be determined.
- Spoil not used for embankments shall be spread to a height not to exceed 2 feet above the natural ground. Location and placement of spoil shall be such as to not fill any low lying areas of the field. Side slopes shall be 6:1 of flatter.
- Shape of excavated area(s) may change at time of construction. The total top area of excavation(s) shall equal the acres listed above.
- Existing subsurface drainage tile must be located prior to construction. Tile found under or within 150 feet of proposed wetland must be plugged, removed, rendered inoperable, replaced with non-perforated tubing or regulated with a water control structure. Tile affecting off-site drainage shall NOT be disabled without appropriate measures taken.

OPERATION & MAINTENANCE

To ensure that this practice functions as intended throughout its expected life, the following items must be addressed by the landowner/operator. Any activities that disturb cover or will alter the vegetative composition of the site should be approved by NRCS.

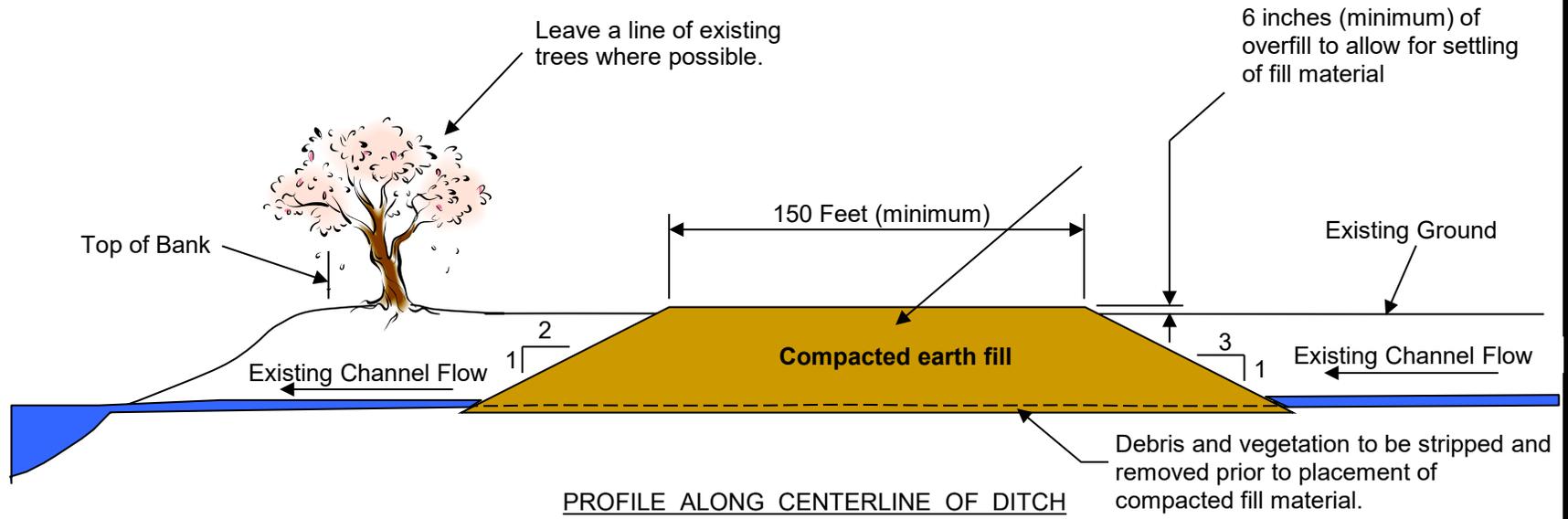
- Promptly repair eroded areas.
- Re-establish vegetative cover immediately in areas where established seeding has been damaged or removed by erosion.
- Control noxious and invasive plants according to State law.
- Use of fertilizers, mechanical treatments, prescribed burning, pesticides, or other chemical treatments shall only be used if appropriate and do not affect the function of the wetland.
- Periodically inspect areas for any new maintenance items and take immediate action to protect areas from further damage or deterioration. Contact your local NRCS office for assistance.

DITCH PLUG

Landuser: TNC
Location: Newton, McClellan Twp., SWCD, INDIANA
Section: 18 T 30N R 9W

Designed: P. Glasman
Drawn: JLC
Checked: JLC
Approved: JLC

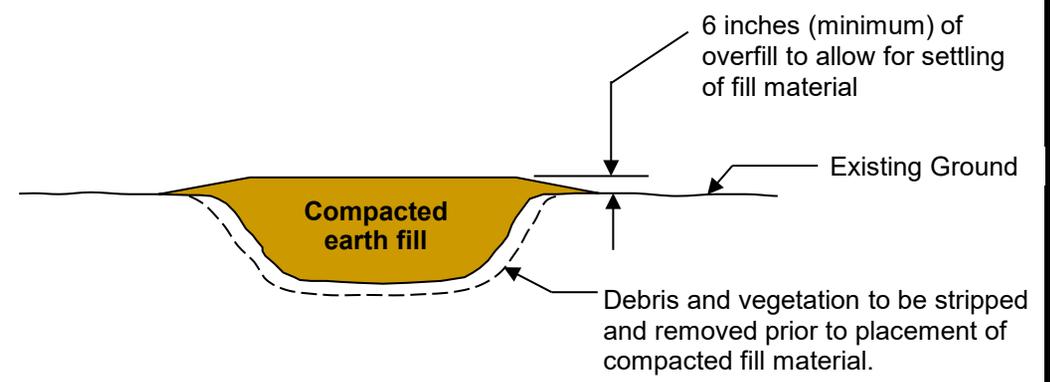
Date: 8/18
3/20



PROFILE ALONG CENTERLINE OF DITCH

East Ditch Plug - 740 ft length, approx 685 cubic yards
Central Ditch Plug - 2,950 ft length, approx 6,556 cubic yards
West Ditch Plug - 3260 ft length, approx 9056 cubic yards
= 16,300 cubic yards fill

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TYPICAL CROSS-SECTION