

## Appendix M-3

### IDNR Permits

The Six IDNR permits utilize the same permit application for construction form. They are as follows:

- Lake Preservation Act
- Lowering of the Ten Acre Lake Act
- Navigable Waterways Act
- Sand and Gravel Permits Act
- Construction of Channels Act
- Floodway Control Act
  - Construction in a Floodway

To apply for these permits, use the Permit Application for Construction Form #42946.

### Applicant Information

#### Name and Address

A. Provide the name and complete mailing address of the applicant.

1. If there are multiple applicants, provide the name and address of the applicant serving as the contact person on the application form and the names and addresses of the additional applicants on a separate page.

2. If the applicant is a governmental unit or a business interest, provide the unit's or business' name and address and the name of a contact person on the application form.

B. If the applicant(s) own the property on which the project will be or has been constructed, the name(s) should be provided as they appear on the property deed or title.

C. If the applicant(s) do not own the property on which the project will be or has been constructed, provide the name(s) of the property owner(s) in the "Property Owner Information" section of the application form.

#### Daytime Telephone Number:

A. Provide the applicant's or contact person's daytime telephone number. Include the area code and applicable extension.

#### FAX Number - If Available:

A. Provide the applicant's or contact person's FAX number. Include the area code and applicable extension.

#### Example Applicant Information:

Governmental Unit - Entity name and contact person shown on the application form

Indiana Department of Transportation  
Waterway Permits Unit Supervisor  
100 N. Senate Ave. 6<sup>th</sup> Floor  
Indianapolis, IN 46204

Phone (317) 233-5151  
FAX (317) 233-4929

**Agent Name and Address:**

- A. Provide the name and complete mailing address of the agent.
1. If there are multiple agents, provide the name and address of the agent serving as the contact agent on the application form and the names and addresses of the additional agents and their areas of responsibility on a separate page.

**Daytime Telephone Number:**

- A. Provide the agent's daytime telephone number. Include the area code and applicable extension.

**FAX Number - If Available:**

- A. Provide the agent's FAX number. Include the area code and applicable extension.

**Example Agent Information:**

Single Agent - Agent shown on the application form

Site Planning Associates, Ltd.  
Mr. Paul A. Johnson, PE  
Grand View Office Park  
Suite 745  
8935 Louis Boulevard  
Indianapolis, Indiana 46204  
Phone (317) 555-1212  
FAX (317) 555-1212

**Name and Address:**

- A. If the applicant(s) own the property on which the project will be or has been constructed, state that the property is owned by the applicant(s) and provide the property owner(s) name(s), i.e. the applicant(s), as shown on the deed or title, on the application form.
- B. If the applicant(s) do not own the property on which the project will be or has been constructed, state that the property is not owned by the applicant(s) and provide the property owner(s) name(s), as shown on the deed or title, and the complete mailing address on the application form.
1. If there are multiple owners, state the property is under multiple ownership on the application form and provide the names of all property owners, as shown on the deed or title, and their complete mailing addresses on a separate page.

**Right To Use And/Or Affect:**

- A. If the applicant(s) do not own the property on which the project will be or has been constructed and/or the property which will be or has been affected by the project, submit a copy of the legal document(s) giving the applicant(s) the right to use and/or affect the property with the application.

**Example Property Owner Information:**

Single Applicant:

Property is under multiple ownership by individuals other than the applicant

1. Application Form - The property is under multiple ownership, see the attached page.

## 2. Separate Page -

Property Owners:  
James R. and June C. Gambleson, husband and wife  
R.R. 1, Box 49  
Greensburg, Indiana 47240

Robert C. Smith  
R.R. 1, Box 53  
Greensburg, Indiana 47240

Paul A. and Mary G. Overmeyer, husband and wife  
R.R. 1, Box 57  
Greensburg, Indiana 47240

Constance C. Lewis  
R.R. 1, Box 62  
Greensburg, Indiana 47240

### **Public Notice:**

Applicants are required to provide evidence that public notice has been provided to all adjacent property owner(s) according to the provisions contained in the Procedures Governing Certain Licenses Act and the Public Hearings Rule. A DNR administrative law judge recently ruled that the practice of providing public notice to adjacent landowners prior to submitting a permit application to the DNR is in conflict with 312 IAC 2-3-3. Therefore, public notice as required under the following statutes must be provided to the adjacent landowners after the application is submitted to the Division of Water.

### **General Information:**

- A. The applicant or authorized agent must provide the Department with a public notice summary on the "Affirmation of Personal Service, 1st Class Mail Service, or Certified Mail Service" form N-4 which is provided with the application. The form may be photocopied for listing additional notified property owner(s). See also General Information - Public Notice.

### **Notified Party(s):**

- A. Provide the name(s) and complete mailing address(es) of all notified property owner(s) on the Department form N-4.
  1. If the project site is owned by someone other than the applicant, provide the name(s) and complete mailing address(es) of the property owner(s).

### **Public Notice Document:**

- A. The Procedures Governing Certain Licenses Act and the Public Hearings Rule require that the public notice document include information on the overall project scope and the legal rights of the noticed party(s). Specifically, the document must contain:

1. the applicant's name, address and telephone number;
2. the agent's name, address and telephone number (if applicable);
3. the stream or lake name;
4. the project description;
5. the project location;
6. the relevant statute and/or rule;
7. the name, address and telephone number of the person to contact if questions arise regarding the project; and
8. instructions for:
  - a. petitioning for an informal public hearing;
  - b. requesting notice of the Department's initial determination; and
  - c. appealing the Department's initial determination.

B. To ensure that the applicant's notice contains the required information, the Department provides an example public notice document with the application, N-2.

**Method of Service:**

A. On the Department form, indicate the method of service used to notify each property owner and the date on which the service was provided. The method may be varied between owner(s) dependent upon the level of documentation the applicant believes is warranted.

**1. Personal:**

If public notice was given to a property owner in person, mark the "personal service" box and state the service date. If you are using a mode of personal delivery, the effective date of the public notice is considered the date the public notice was delivered to the adjacent landowner.

**2. 1st Class Mail:**

If a property owner was notified by 1st class mail, mark the "1st class mail service" box and state the service date. As proof of notice to the owner, submit the "Certificate of Mailing", Postal Service Form 3817 stamped with the mailing date to the Department. By indicating service by 1st class mail, affirmation is being given that 21 days have passed since the mailing date and the notice was not returned as undelivered or undeliverable. If you use first class mail to provide public notice, the effective date of the public notice will be based on the actual postmark date. That 21 day period will be reflected on Form N-4 between the date mailed and the date that the form is signed.

## Certificate of Mailing - Postal Form 3817

<b>U.S. POSTAL SERVICE</b> <b>CERTIFICATE OF MAILING</b>
<small>MAY BE USED FOR DOMESTIC AND INTERNATIONAL MAIL, DOES NOT PROVIDE FOR INSURANCE--POSTMASTER</small>
Received From:  _____
_____
One piece of ordinary mail addressed to:  _____
_____
_____

Affix fee here in stamps or meter postage and post mark. Inquire of Postmaster for current fee.

PS Form 3817, Mar. 1989

### 3. Certified Mail:

If certified mail was used to notify a property owner, mark the "certified mail service" box and state the service date. As proof of notice, submit the "Domestic Return Receipt", Postal Service Form 3811, (commonly known as the "green card"), signed by the property owner to the Department. If the public notice notification is mailed via certified mail, the Department will recognize the "Date of Delivery" as the effective date for the 30-day public notice period - not the postmarked date.

### Domestic Return Receipt - Postal Form 3811

Is your RETURN ADDRESS completed on the reverse side?	<b>SENDER:</b> • Complete items 1 and/or 2 for additional services. • Complete items 3, and 4a & b. • Print your name and address on the reverse of this form so that we can return this card to you. • Attach this form to the front of the mailpiece, or on the back if space does not permit. • Write "Return Receipt Requested" on the mailpiece below the article number. • The Return Receipt will show to whom the article was delivered and the date delivered.		I also wish to receive the following services (for an extra fee): 1. <input type="checkbox"/> Addressee's Address 2. <input type="checkbox"/> Restricted Delivery Consult postmaster for fee.	
	3. Article Addressed to:		4a. Article Number	
			4b. Service Type <input type="checkbox"/> Registered <input type="checkbox"/> Insured <input type="checkbox"/> Certified <input type="checkbox"/> COD <input type="checkbox"/> Express Mail <input type="checkbox"/> Return Receipt for Merchandise	
			7. Date of Delivery	
	5. Signature (Addressee)		8. Addressee's Address (Only if requested and fee is paid)	
	6. Signature (Agent)			
PS Form 3811, December 1991 *U.S. GPO: 1992-323-402				Thank you for using Return Receipt Service.
<b>DOMESTIC RETURN RECEIPT</b>				

#### 4. Legal Publication:

Public notice by legal publication may only be used in very specific situations. Prior to performing notice in this manner the applicant must contact the Permit Administration Section at (317) 233-5635 to discuss the method's suitability. If deemed appropriate, proof of notice is accomplished by submitting a copy of the notice and publisher's affidavit to the Department. If you are using a publication for public notice, the date of the publication must occur after the application is submitted to the Division of Water and will be considered the effective date.

B. The Public Hearings Rule states that expenses incurred due to the applicant's public notice are the applicant's responsibility.

#### Examples:

A. The following are examples of completed forms:

1. public notice page 1;
2. public notice page 2;
3. Example Public Notice - Attachment;
4. "Affirmation of Personal Service, 1st Class Mail Service, or Certified Mail Service" form; and
5. publisher's affidavit.

Public Notice Form Page 1

State Form 50354 (R/5-02)

Form N2

Public Notice

Adjacent Property Owner's Name  
Address  
City, State, Zip Code

Mr. Fred A. Roberts  
R. R. 2, Box 53  
Landenville, IN 47693

Date May 14, 2004

Indiana Code 14-11-4 was enacted to ensure that adjacent property owners are notified of permit applications and provided with an opportunity to present their views to the Department of Natural Resources prior to action.

Under the legislation, the applicant or agent is responsible for providing notice to the owner of the real property owned by a person, other than the applicant, which is both of the following: 1.) located within one-fourth (1/4) mile of the site where the licensed activity would take place, and 2.) has a border or point in common with the exterior boundary of the property where the licensed activity would take place. Included is property which would share a common border if not for the separation caused by a roadway, stream, channel, right-of-way, easement, or railroad.

Due to your proximity to the project site, you are considered to be an adjacent property owner; therefore, notice is being provided in conformance with the provisions of IC 14-11-4 and 312 IAC 2-3.

Applicant's Name, Address, and Telephone  
Mr. Paul E. Johnson  
R. R. 2, Box 48  
Landenville, IN 47693

Agent's Name, Address, and Telephone  
Smith & Associates, Inc.  
317 East Portsmouth Avenue  
Greenwood, IN 46143

(812) 555-1212

Honey Creek

(317) 555-1212

Stream or Lake Name

Project Description and Location See the attached sheet

Check relevant Statute or Rule:

- Flood Control Act, IC 14-28-1
- Lake Preservation Act, IC 14-26-2
- "Ditch Act", IC 14-26-5
- Channels Act, IC 14-29-4
- Removal of Sands or Gravel, IC 14-29-3

Questions relating to the project should be directed to:

Paul E. Smith, PE  
Smith & Associates, Inc.  
317 East Portsmouth Avenue  
Greenwood, IN 46143  
(317) 555-1212

You may request an informal public hearing, pre-AOPA (Administrative Orders and Procedures Act) hearing, on this application by filing a petition with the Division of Water. The petition must conform to administrative rule 312 IAC 2-3-4 as follows:

- (a) This section establishes the requirements for a petition to request a public hearing under IC 14-11-4-8(a)(2).
- (b) The petition shall include the signatures of at least twenty-five (25) individuals who are at least eighteen (18) years of age and who reside in the county where the licensed activity would take place or who own real property within one (1) mile of the site of the proposed or existing licensed activity.
- (c) The complete mailing addresses of the petitioners shall be typed or printed legibly on the petition.

## Public Notice Form Page 2

- (d) Each individual who signs the petition shall affirm that the individual qualifies under subsection (b).
- (e) The petition shall identify the application for which a public hearing is sought, either by division docket number (application number) or by the name of the applicant and the location of the project.

A pre-AOPA public hearing on the application will be limited to the Department's authority under the permitting statutes. Only the issues relevant to the Department's jurisdiction directly related to this application for construction will be addressed. Under permitting statutes, the Department has no authority in zoning, local drainage, burning, traffic safety, etc.; therefore, topics beyond the Department's jurisdiction will not be discussed during the public hearing.

The Department's jurisdiction under the Flood Control Act is confined to the floodway of the stream and its review limited to the following criteria.

To be approvable a project must demonstrate that it will:

- (a) not adversely affect the efficiency or unduly restrict the capacity of the floodway; defined as, the project will not result in an increase in flood stages of more than 0.14 feet above the base 100-year regulatory flood elevation.
- (b) not constitute an unreasonable hazard to the safety of life or property; defined as, the project will not result in either of the following during the regulatory flood: (1) the loss of human life, (2) damage to public or private property to which the applicant has neither ownership nor a flood easement;
- (c) not result in unreasonably detrimental effects upon fish, wildlife or botanical resources.

Additionally, the Department must consider the cumulative effects of the above items.

The Department's jurisdiction under the Lakes Preservation Act is confined to the area at or lakeward of the shoreline of the lake and any impact which the project may have on:

- (a) the natural resources and/or scenic beauty of the lake;
- (b) the water level or contour of the lake below the waterline;
- (c) fish, wildlife or botanical resources.

Additionally, the department must consider the cumulative effects of the above items.

A request for a pre-AOPA public hearing or notice of initial determination pursuant to 312 IAC 2-3 should be addresses to:

Technical Services Section  
Division of Water  
Department of Natural Resources  
402 West Washington Street, Room W264  
Indianapolis, Indiana 46204-2641  
Telephone: (877) 928-3755 or (317) 232-4160

You may also request that the Department notify you in writing after an initial determination is made to issue or deny the permit. Following the receipt of the approval or denial notice, you may request administrative review of the determination by the Natural Resources Commission under IC 4-21.5 and 312 IAC 3-1. This request should be addressed to :

Division of Hearings  
Natural Resources Commission  
402 West Washington Street, Room W272  
Indianapolis, Indiana 46204  
Telephone: (317) 232-4699

## **Example Public Notice**

### **Public Notice attachment for Mr. Paul E. Johnson's project**

Description: Approximately 200' of Honey Creek's eroded streambank will be stabilized with end dumped riprap placed over a geotextile fabric to protect the bank from further erosion. The riprap will be keyed into the streambed at its base and will conform to the existing bank at the project limits. It will have a maximum height of 6', a maximum streamward projection of 2' beyond the existing bank, and 1:1 sideslopes.

Location: Along the left (south) bank of Honey Creek beginning 50' west of County Road 150 N and continuing downstream for approximately 200' near Landenville, Roosevelt Township, Ripley County.

NE  $\frac{1}{4}$ , SE  $\frac{1}{4}$ , SW  $\frac{1}{4}$ , Section 24, Township 13 N, Range 13 E, Landenville Quadrangle

Example "Affirmation of Personal Service, 1st Class Mail Service, or Certified Mail Service" Form

4. AFFIRMATION OF PERSONAL SERVICE, 1ST CLASS MAIL SERVICE, OR CERTIFIED MAIL SERVICE	
<p>I have provided public notice to the listed property owners in conformance with the provisions of IC 14-11-4 and 310 IAC 0.6 through the method indicated below. (Check the appropriate Box - Please make copies of this blank page if additional pages are required)</p>	
<p><b>Mr. Fred A. Roberts</b></p> <p>Property Owner (if not applicant or adjacent landowner)  <b>R.R. 2, Box 53</b></p> <p>Address  <b>Landensville, IN 47693</b></p> <p>City _____ State _____ Zip Code _____</p>	<p><input type="checkbox"/> Personal Service was provided on: _____ (date)</p> <p><input checked="" type="checkbox"/> 1st Class Mail Service was provided on: <b>1/15/96</b> (date) affirm that 21 days have passed without the mailing returned as undelivered or undeliverable. PS Form 3817 is attached as proof of mailing.</p> <p><input type="checkbox"/> Certified Mail service was provided on: _____ (date) PS Form 3811 (green card) is attached as proof of mailing.</p>
<p><b>Mr. James K. Hardesty</b></p> <p>Adjacent Landowner:  <b>R.R. 2, Box 55</b></p> <p>Address  <b>Landensville, IN 47693</b></p> <p>City _____ State _____ Zip Code _____</p>	<p><input type="checkbox"/> Personal Service was provided on: _____ (date)</p> <p><input checked="" type="checkbox"/> 1st Class Mail Service was provided on: <b>1/15/96</b> (date) affirm that 21 days have passed without the mailing returned as undelivered or undeliverable. PS Form 3817 is attached as proof of mailing.</p> <p><input type="checkbox"/> Certified Mail service was provided on: _____ (date) PS Form 3811 (green card) is attached as proof of mailing.</p>
<p><b>Mr. Michael L. Bolinger</b></p> <p>Adjacent Landowner:  <b>R.R. 2, Box 41</b></p> <p>Address  <b>Landensville, IN 47693</b></p> <p>City _____ State _____ Zip Code _____</p>	<p><input checked="" type="checkbox"/> Personal Service was provided on: <b>1/10/96</b> (date)</p> <p><input type="checkbox"/> 1st Class Mail Service was provided on: _____ (date) affirm that 21 days have passed without the mailing returned as undelivered or undeliverable. PS Form 3817 is attached as proof of mailing.</p> <p><input type="checkbox"/> Certified Mail service was provided on: _____ (date) PS Form 3811 (green card) is attached as proof of mailing.</p>
<p><b>Mrs. Kathern S. Anderson</b></p> <p>Adjacent Landowner:  <b>R.R. 2, Box 37</b></p> <p>Address  <b>Landensville, IN 47693</b></p> <p>City _____ State _____ Zip Code _____</p>	<p><input type="checkbox"/> Personal Service was provided on: _____ (date)</p> <p><input type="checkbox"/> 1st Class Mail Service was provided on: _____ (date) affirm that 21 days have passed without the mailing returned as undelivered or undeliverable. PS Form 3817 is attached as proof of mailing.</p> <p><input checked="" type="checkbox"/> Certified Mail service was provided on: <b>1/20/96</b> (date) PS Form 3811 (green card) is attached as proof of mailing.</p>
<p>Adjacent Landowner:</p> <p>Address</p> <p>City _____ State _____ Zip Code _____</p>	<p><input type="checkbox"/> Personal Service was provided on: _____ (date)</p> <p><input type="checkbox"/> 1st Class Mail Service was provided on: _____ (date) affirm that 21 days have passed without the mailing returned as undelivered or undeliverable. PS Form 3817 is attached as proof of mailing.</p> <p><input type="checkbox"/> Certified Mail service was provided on: _____ (date) PS Form 3811 (green card) is attached as proof of mailing.</p>

Indiana Department of Transportation: Allen County Times
(Governmental Unit) 405 Broadway
Allen County, Indiana New Haven In 46774

PUBLISHER'S CLAIM

LINE COUNT

Display Matter (Must not exceed two actual lines, neither of which shall total more than four solid lines of type in which the body of the advertisement is set) -- number of equivalent lines
Head -- number of lines
Body -- number of lines
Tail -- number of lines
Total number of lines in notice

COMPUTATION OF CHARGES

lines, 3 columns wide equals equivalent lines
at cents per line \$ 135.00
Additional charge for notices containing rule or tabular work (50 percent of above amount)
Charge for extra proofs of publication (\$1.00 for each proof in excess of two)
TOTAL AMOUNT OF CLAIM \$ 135.00

DATA FOR COMPUTING COST

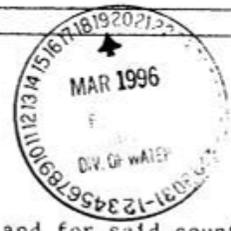
Width of single column ems
Number of insertions
Size of type point
\*600 PER COLUMN INCH

Pursuant to the provisions and penalties of Chapter 155, Acts 1953,

I hereby certify that the foregoing account is just and correct, that the amount claimed is legally due, after allowing all just credits, and that no part of the same has been paid.

Date: 18 March, 1996 Title: Publisher
Ron Oetting

PUBLISHER'S AFFIDAVIT



State of Indiana )
) ss:
Allen County )

Personally appeared before me, a notary public in and for said county and state, the undersigned Ron Oetting who, being duly sworn, says that he is Publisher of the Allen County Times newspaper of general circulation printed and published in the English language in the (city) (town) of New Haven in state and county aforesaid, and that the printed matter attached hereto is a true copy, which was duly published in said paper for 1 time, the dates of publication being as follows:

ATTACH COPY OF ADVERTISEMENT HERE

13 December 1995
Ron Oetting, Publisher
Subscribed and sworn to before me this 18 day of March, 1996

## **Description Narrative:**

- A. Provide a narrative statement outlining the project scope. The narrative must include:
1. an introductory statement on the overall project scope;
  2. the reason or necessity for the project;
  3. a description of each major component, including but not limited to the:
    - a. type;
    - b. location;
    - c. dimensions;
    - d. whether or not the component is new construction or an existing element; and
    - e. elevations (if applicable);
  4. information relative to any additional material submitted.

## **Example Project Descriptions By Application Type:**

### **A. Access Channel:**

1. An access channel will be excavated along the (north) bank of the river to provide access for a proposed marina development. The channel will be approximately 300' long, 100' wide and will be excavated to a depth of 15' below the existing grade. It will have 2:1 side slopes which will be stabilized with end dumped riprap placed over a geotextile fabric and filter layer. Fill removed from the excavation will be hauled to a disposal site located outside of the floodway where it will be graded and seeded. The construction will require the excavation of 11,700 yd<sup>3</sup> of material followed by maintenance dredging on an as needed basis. During construction an earthen plug will separate the river from the channel. Once the excavation has been completed and stabilized, the plug will be removed and the channel flooded. Plans, specifications and color photographs are enclosed in the application package.

### **B. Construction In A Floodway:**

#### **1. Bank Protection - Riprap** ([view example bank stabilization plan](#)) | ([view example steel piling or vinyl seawall plan for streams](#))

Approximately 250' of Eagle Creek's eroded streambank will be stabilized with end dumped riprap placed over a geotextile fabric to protect the bank from further erosion. The riprap will be keyed into the streambed at its base and will conform to the existing bank at the project limits. It will have a maximum height of 5', a maximum streamward projection of 2' beyond the existing bank, and 1:1 sideslopes. Plans, specifications and color photographs are enclosed in the application package.

#### **2. Bank Protection - Seawall**

An existing, deteriorated, wooden seawall will be replaced with a new steel sheet piling seawall along 150' of the riverbank to deter bank erosion. The new wall will be approximately 4' high, as measured from the riverbed, will have the same alignment as the existing wall, and will tie into existing seawalls located on adjacent properties located to the east and the west. The piling will be driven approximately 10' into the riverbed and will be anchored with deadmen spaced at 15' intervals. A whaler will be placed across the face of the wall to further stabilize the sheet piling. Clean fill will be brought onsite to backfill the area landward of the new seawall. The fill will be

leveled with the top of the wall at the river and will be tapered back to existing ground elevations within the project site. Plans, specifications and color photographs are enclosed in the application package.

### **3. Bridge - New** ([view example bridge project plan](#))

A new bridge will be constructed over Indian Creek to carry the extension of Oakmont Avenue across the stream. The new structure will be a single span continuous prestressed concrete I-beam bridge with span length of 70'. The structure will have an out-to-out length of 80' and a clear roadway width of 35'. The spill through abutments will have 2:1 sideslopes armored with limestone riprap placed over a geotextile fabric. The abutments and piers will be skewed 10° to align with streamflow. The approach roads will be elevated a maximum of 3.5' above the existing grade. A temporary construction access crossing will be placed within the right-of-way on the downstream (west) side of the proposed bridge. It will be completely removed from the floodway upon completion of the bridge. The project is entirely federally funded. Plans, specifications and color photographs are enclosed in the application package.

### **4. Bridge - Replacement** ([view example bridge project plan](#))

The existing steel truss bridge carrying County Road 650 North over Bean Creek will be replaced with a new structure on essentially the same alignment to improve traffic flow. The new structure will be a single span continuous composite girder bridge with span length of 70'. The structure will have an out-to-out length of 80' and a clear roadway width of 35'. The spill through abutments will have 2:1 sideslopes armored with limestone riprap placed over a geotextile fabric. The abutments and piers will be skewed 10° to align with the streamflow. The new approach roads will not be raised above the existing approaches. The existing structure will be completely removed. The project is partially federally funded. Plans, specifications and color photographs are enclosed in the application package.

### **5. Bridge - Widening** ([view example bridge project plan](#))

The superstructure of the existing 2-span bridge carrying State Road 135 over Buffalo Creek will be widened to 4 lanes to reduce traffic congestion. The 41'-6" deck will be increased by extending both the abutments and piers upstream and downstream 10'-11" thereby increasing the out-to-out width to 63'-4". The approach roads will not be raised and there will be minimal work in the channel. Color photographs and plans are enclosed in the application package.

### **6. Channel - Realignment or Reconstruction**

Approximately 1,450' of the Ransfield Creek channel will be realigned and straightened to reduce residential flood damage. The new channel will be approximately 890' long. It will be 3' deep, with an 8' bottom width and 2:1 sideslopes. A sediment trap will be constructed at the downstream end of the new channel. The trap will be 1½' deep, 50' long and as wide as the new channel bottom. The channel will be excavated "in the dry" and will not be connected to the existing channel until the excavation has been stabilized. Material excavated from the construction of the new channel will be stockpiled for later use as fill for the old channel. If additional fill material is required it will be brought onsite from an outside source. Additionally, approximately 1,230' of existing channel immediately upstream of the realigned section will be cleared of brush and debris. Plans, specifications and color photographs are enclosed in the

application

package.

### **7. Culvert - New** ([view example culvert plan](#))

A new culvert crossing will be placed in Anderson Ditch to carry the North Corridor roadway project across the ditch. The new crossing will consist of 2, parallel 8' x 8' x 150' concrete box culverts set in concrete headwalls. They will have upstream and downstream inverts of 765.39 ft, NGVD and 764.85 ft, NGVD, respectively. The inlet ends of the culverts will be beveled. Both the culverts and headwalls will be skewed 12° to align with streamflow. Minor channel shaping will occur both downstream and upstream of the crossing to provide a better flow transition into and out of the culvert system. The shaping will be confined to the construction right-of-way. The shaped areas will be lined with an 18" thick layer of limestone riprap placed over a geotextile fabric. The approach roads will be constructed on fill placed to a maximum height of 5' over the existing elevations. The crown of the roadway over the culverts will be at 776.5 ft, NGVD. A 3' high concrete sidewall will be placed along each side of the roadway over the channel. Plans, specifications and color photographs are enclosed in the application package.

### **8. Culvert - Replacement** ([view example culvert plan](#))

The existing 9' x 6' x 65' corrugated metal pipe culvert carrying Prairie Drive over Kelly Creek will be replaced with a new culvert system to reduce upstream flood damages. The new crossing will consist of a 12' x 8' x 100' long concrete box culvert set in concrete headwalls. The new culvert will have an upstream and downstream invert of 831.9 ft, NGVD and 831.5 ft, NGVD respectively. The inlet end of the culvert will be beveled. The culvert and headwalls will be skewed 15° to align with streamflow. Minor channel shaping will occur both downstream and upstream of the new culvert to improve the flow transition at the crossing. The shaping will be confined to the construction right-of-way. The reshaped areas will be stabilized with an 18" thick layer of limestone riprap placed over a geotextile fabric. The roadway will be elevated approximately 1½' above the existing road elevations. The crown of the roadway over the new culvert will be at 840.0 ft, NGVD. Steel W-beam guardrails will be placed along each side of the roadway over the channel. Plans, specifications and color photographs are enclosed in the application package.

### **9. Dam**

An earthen dam will be constructed across the Jones Creek valley to create a 167 acre recreational lake. The dam will be approximately 680' long and 26' high. It will have a crest elevation of 495', NGVD and a 15' top width. The embankment slopes will be 2:1 and 3:1 on the upstream and downstream faces, respectively. The upstream shoreline will be lined with end dumped riprap. A 5' deep core trench with a 12' bottom width will be excavated. The trench will be backfilled with clay soil and compacted. The principal spillway will consist of 183' of 24" reinforced concrete pressure pipe fitted with 3, 4' x 4' antiseep collars. The principal spillway pipe will be connected to a 2 way covered riser. The structure is designed to maintain a normal pool elevation of 485', NGVD. A vegetated emergency spillway will be constructed in the left (east) abutment. It will have a 24' bottom width, 5:1 sideslopes, and a control elevation of 491', NGVD. Other structural features include a drawdown pipe, riprap along the downstream toe, a toe drain and a stilling basin at the principal spillway outlet. Plans, specifications and color site photographs are enclosed in the application package.

## **10. Development - Commercial**

A commercial facility will be developed along Clarks Creek to provide space for a shopping center. The facility will consist of a 100' by 400' masonry and steel building and asphalt parking area constructed on compacted fill placed along the north bank. The fill will cover a 400' by 800' area and will vary in depth from 1' at the landward edge to 5' near the stream. It will be set back 100' from the top of the streambank and will have a finished elevation of 661.5 ft, NGVD. The fill will have 3:1 sideslopes from the finished grade down to the existing floodplain elevations. The parking area will be constructed at the fill's finished elevation. The building's lowest floor elevation will be 663. ft, NGVD. Additional material is contained in the plans, specifications and color photographs enclosed in the application package.

## **11. Development - Residential** ([View example residential subdivision project plan](#))

### Residential Development

A new residential development, Meadow View Estates - Section 1, will be constructed along the north bank of the creek to provide additional housing for the rapidly growing area. Floodway construction activities associated with this development include:

1. a small portion of an approximately 520' x 200' x 10' deep incised, stormwater detention basin. Runoff will be directed to the basin through reinforced concrete storm sewers constructed within the development outside of the floodway. Material excavated from the basin will be used to elevate the building pads;
2. a 100' long outfall system consisting of a 48" diameter reinforced concrete pipe buried 3' below the existing ground elevations. The system will convey stormwater from the detention basin to the stream. It will terminate in a concrete end section that will conform to the streambank. Riprap will be placed at the base of the end section for energy dissipation;
3. a stream crossing consisting of a 6' x 6' x 70' precast concrete box culvert set in concrete headwalls. The culvert will have an upstream and downstream invert of 842.6 ft, NGVD and 842.5 ft, NGVD, respectively. The inlet ends of the culvert will be beveled. Both the culvert and headwalls will be skewed 19° to align with streamflow. The channel entering and exiting the culvert will be lined with an 18" thick layer of limestone riprap placed over a geotextile fabric;
4. a 24" diameter PVC sanitary sewer buried 4' beneath the streambed and 3' below the banks using the directional bore method. The sewer will have a 12" concrete encasement for the section below the streambed; and
5. approximately 1200' of an 8' wide paved pedestrian trail constructed at existing grade.
- 6.

Additional material is contained in the plans, specifications and color photographs enclosed in the application package.

## **12. Dredging** ([view example channel dredging plan for streams](#))

Approximately 1,000' of the Fall Creek Flood Control Channel will be dredged to a depth of 2' to restore the channel to its design configuration. The dredging will be performed by a floating hydraulic dredge. The excavated material will be piped to an upland detention area where it will be dewatered before being transported to an offsite disposal area. Adequate detention time will be provided to allow suspended sediments to settle out of the decanted water before returning the

water to the stream. Additional material is contained in the plans, specifications and color photographs enclosed in the application package.

### **13. Fill ([View example fill project plan](#))**

A 75' x 500' area will be filled in the south floodplain of Lick Creek for the development of a parking lot. The fill will vary in depth from 6" on the landward side to approximately 21.5' on the streamward side. It will be set 140' back from the top of the bank and will have 3:1 sideslopes. The fill's finished elevation will be 820.0', NGVD. The parking lot will be constructed on top of the completed fill. The fill material will be obtained by excavating a borrow pit approximately 100' south of the proposed fill area. The pit will be approximately 100' x 120' with an average depth of 10'. Approximately 25% of the shoreline will be maintained at a shallow slope to encourage the development of wetland vegetation. Plans, specifications and color site photographs are enclosed in the application package.

### **14. Golf Course**

A new 18 hole public golf course will be developed along both sides of Elliott Creek to provide additional recreational opportunities in the area. Activities within the floodway include:

1. the construction of 9, 20' long wooden bridges across the stream for pedestrian and golf cart traffic. The bridges will span the stream between the top of banks. The low structures will be set at the top of bank elevation. There will be no inchannel work associated with the bridge placement;
2. the regrading of the natural contours for the construction of greens, tees, traps, and fairways;
3. the excavation of 3 sediment traps. The traps will be 50' long, 3' deep, and as wide as the channel bottom. They will be located at the start and end of the project and at the halfway point;
4. the excavation of a 145' x 85' x 15' deep incised retention pond and an outlet drainage swale along the east bank of the creek;
5. the placement of 6 stormwater outfall structures at various locations along the streambank. Each outfall will terminate in a steel end section that will conform to the streambank. Riprap over geotextile fabric mats will be placed for energy dissipation;
6. the construction of a 104' x 42' clubhouse with a finished floor elevation of 654.8 ft, NGVD approximately 125' landward of the western streambank near hole #18. A 100' x 200' gravel parking lot will be constructed at grade on the landward side of the clubhouse;
7. the placement of a 3" diameter sanitary sewer force main under the stream. The main will be constructed via directional bore and will have a minimum cover of 4' beneath the streambed and 3' in the banks; and
8. miscellaneous construction activities including, but not limited to; the removal of trees for the construction of fairways; the reforestation of hardwood trees; the placement of coconut fiber mat and vegetative plantings for sediment control and bank stabilization.

Color photographs, plans and construction specifications are enclosed in the application package.

### **15. Levee - New**

A 1,400' long levee will be constructed along the south bank of the Little Calumet River to provide flood protection for a residential area. The levee crest will slope uniformly from an elevation of 602.5', NGVD at the upstream end to 602.0', NGVD at the downstream end. The 10' wide crest will be covered with a gravel recreational trail which will also serve as a maintenance road. The streamward and landward sideslopes will be 2.5:1 and 5:1 respectively. Color photographs, plans and construction specifications are enclosed in the application package.

#### **16. Levee - Repair**

Approximately 600' of an existing, flood damaged, agricultural levee along the west bank of the White River will be repaired to its original condition to minimize future crop losses. The levee's original height of 8' to 10', top width of 8', and 3:1 sideslopes will be maintained in the reconstructed segment. Color photographs, plans and construction specifications are enclosed in the application package.

#### **17. Outfall Structure** ([view example outfall structure project plan](#))

A stormwater outfall structure will be constructed near Eagle Creek to improve drainage from the Gatewood Subdivision which is located landward of the floodway. A 24" reinforced concrete outfall pipe will be buried to a depth of 2' in the floodplain. The 200' long pipe will carry stormwater from the residential area to the creek. The pipe will terminate with a concrete end section that will conform to the bank slope. A flapgate will be placed at the end of the pipe to prevent backflow into the subdivision. Riprap placed over a geotextile fabric will be placed at the base of the end section for erosion control. Color photographs and plans are enclosed in the application package.

#### **18. Sediment Basin or Trap**

A 50' long, 3' deep, channel width sediment trap will be excavated in the Posey Ditch channel to reduce the sediment load entering Chadwick Lake. The excavated material will be spread along the eastern top of bank and will be graded to a maximum depth of 6". Color photographs, plans and construction specifications are enclosed in the application package.

#### **19. Utility Line - Aerial**

A 3" steel encased natural gas pipeline will be attached to the downstream side of the County Road 375 North bridge over Ripley Creek to provide gas service to residences located west of the creek. No portion of the line or its support mechanism will extend below the low structure of the bridge. Plans and color photographs are enclosed in the application package.

#### **20. Utility Line - Underground** ([view example utility crossing project plan](#))

A 4" diameter water line will be placed beneath Buck Creek to expand public water service in the eastern portion of Marion County. The directionally bored line will have 4' of cover beneath the streambed and 3' in the banks. The bore pits will be restored to the predisturbance ground contours following construction. Plans and color photographs are enclosed in the application package.

### **C. "Ditch" Reconstruction:**

#### **1. Construction**

A new arm of Arnholt Ditch will be constructed to provide additional agricultural drainage. The new arm is located within ¼ mile of Mud Lake. The project will commence at the downstream side of County Road 700 West and will terminate 1,000' further downstream at Arnholt Ditch. An average of 4' of material will be excavated to create a ditch with a 3' bottom width, 2:1 sideslopes, and a 0.005% bottom slope throughout the project length. The excavated material will be sidecast and graded on the adjacent farm lands to a maximum depth of 6". An 80' long, 2' deep, channel width sediment trap will be excavated approximately 50' upstream of the confluence with Arnholt Ditch. Additional material is contained in the plans, specifications and color photographs enclosed in the application package.

## **2. Reconstruction**

Wyland Ditch will be reconstructed upstream of Sellers Lake to improve agricultural drainage. The project will commence at the downstream side of State Road 13 (Station 0+00) and will terminate 1,400' further downstream (Station 14+00, 100' upstream of Sellers Lake). An average of 1' to 2' of material will be removed from the ditch to create a 4' bottom width, 3:1 sideslopes, and a 0.007% bottom slope throughout the project length. The excavated material will be sidecast and graded on the adjacent lands to a maximum depth of 6". A 100' long sediment trap will be excavated between Stations 6+00 and 7+00 and between Stations 13+00 and 14+00. Both traps will be approximately 2' deep and 4' wide. Supportive material is contained in the plans, specifications and color photographs enclosed in the application package.

## **D. Lake Michigan:**

### **1. Breakwater**

A new breakwater will be constructed within the commercial harbor to reduce wave energy. It will be approximately 500' long and will consist of 50,000 yd<sup>3</sup> clean stone fill contained in a steel sheet piling bulkhead. The structure will cover approximately 1.8 acres of the lakebed. Plans, specifications, and color photographs are enclosed in the application package.

### **2. Dredging**

Approximately 3,500' of the existing 150' wide channel will be dredged to a depth of 27' below the lake's low water datum of 577.5 ft, IGLD to improve the channel's navigability. Approximately 105,000 yd<sup>3</sup> of material will be removed via a floating hydraulic dredge. The excavated material will be piped to a detention area where it will be dewatered before being transported to an offsite landfill. The decanted water will be treated in an on-site wastewater treatment facility prior to returning it to Lake Michigan. Additional material is contained in the plans, specifications and color photographs enclosed in the application package.

### **3. Seawall**

A new 55' steel sheet piling seawall will be constructed along the applicant's frontage to minimize erosion. The driven piling wall will have a top elevation of 593.0 ft, IGLD and a base elevation of approximately 569.0 ft, IGLD. A 10" steel I-beam whaler will be bolted to the wall's lakeward face and tied back with 1" tie-rods attached to deadmen. Plans and color photographs are enclosed in the application package.

**E. Navigable Waterway:**

**1. Utility Line - Aerial**

A fiber optic communications line encased in a protective housing will be suspended across the stream to provide enhanced telephone and data service to the area. A 40' high steel support tower will be constructed at existing grade approximately 100' landward of the top of bank on each side of the stream. Each tower base will be surrounded by a 6' high chain link fence covering a 20' by 20' area. The low point of the line under maximum wind and temperature conditions will be approximately 25' above the stream's normal water level. Plans and color photographs are enclosed in the application package.

**F. Public Freshwater Lake:**

**1. Boat Ramp**

A new concrete boat ramp will be constructed along 15' of the applicant's 100' frontage at Westler Lake to provide enhanced recreational access. The ramp will extend approximately 50' lakeward of, and will conform to, the lake's legal shoreline. Plans and color photographs are enclosed in the application package.

**2. Boat Well - New**

A new boat well will be constructed within the property boundaries of 153 EMS Lane A7 on Snow Lake to provide a mooring area for the applicant's boat. The new well will be 3' deep, 10' wide, and will extend 20' landward of the lake's legal shoreline. The 3 landward sides of the new well will be stabilized with a concrete seawall. The wall will consist of reinforced, poured in-place concrete which will be sloped on the lakeward side. It will be 40" high and will vary uniformly in thickness from 30" to 12" from the base to the top. The well will be excavated "in the dry" and will not be connected to the lake until the area has been stabilized against erosion. Plans, specifications and color photographs are enclosed in the application package.

**3. Boat Well - Clean out**

An existing boat well will be cleaned out at 427 Lake View Lane on Sechrist Lake to reestablish a mooring area for the applicant's boat. The existing, 15' wide well extends 20' landward of the lake's legal shoreline. A dragline will be used to remove a 2' depth of accumulated sediment and debris from the bottom to restore the well's original 5' depth. The excavated material will be placed on the applicant's property, graded to a depth of 6" and stabilized with a lawn seed mixture. Supportive material and color photographs are enclosed in the application package.

#### **4. Boat Well - Fill**

An existing boat well located on Lot 27 in the Lake Haven Addition on Sawmill Lake will be filled to provide additional lawn area. A concrete seawall will be constructed across the well's 20' frontage to contain the fill material. The wall will consist of reinforced, poured in-place concrete which will be sloped on the lakeward side. It will be 40" high and will vary uniformly in thickness from 30" to 12" from the base to the top. The lakeward face of the wall will be located along the lake's legal shoreline. The well will be filled with clean material once the seawall has been constructed. Color photographs and additional information are enclosed in the application package.

#### **5. Dredging - Channel**

An existing 50' wide, 200' long channel off Lake Tippecanoe will be restored to its original condition to improve navigation. Approximately 3' of accumulated muck and debris will be removed from the channel bed by dredging to a depth of 6' below the lake's legal level at the center of the channel and sloping uniformly to a depth of 3' at the shoreline. The excavated material will be transported to an upland containment area for dewatering and disposal. Water from the containment area will not be allowed to return to the lake. Color photographs, plans and specifications are enclosed in the application package.

#### **6. Dredging - Lakebed**

An existing 40' wide channel along the north shore of High Lake will undergo maintenance dredging along 300' of the shoreline to improve navigation. Approximately 1' of accumulated muck and debris will be removed from the lake bed by dredging to a depth of 4' below the lake's legal level at distance of 40' from the shoreline and uniformly sloping back to the lake's legal level at the shoreline. The excavated material will be transported to an upland containment area for dewatering and disposal. Water from the containment area will not be allowed to return to the lake. Plans, specifications and color photographs are enclosed in the application package.

#### **7. Fish Attractor**

A fish attractor will be installed in front of Lot 39, Lake Breeze Addition, on Crystal Lake to enhance fishing in the area. The attractor will be placed approximately 30' offshore in 10' to 15' of water. It will consist of a 3' tall by 10' diameter brushpile composed of old Christmas trees. The pile will be bound together with #9 wire and will be weighted to the bottom with concrete blocks. Supportive material and color photographs are enclosed in the application package.

#### **8. Pier**

A temporary pier will be placed in Coldwater Lake in front of the applicant's property to provide an access and mooring site. The 3' wide aluminum pier will extend 60' lakeward of, and perpendicular to, the lake's legal shoreline. It will be

supported by 3½" auger poles which will be turned into the lakebed using hand held tools. Plans, specifications and color photographs are enclosed in the application package.

#### **9. Seawall - New Concrete**

A new seawall will be constructed across 82' of the applicant's 102' frontage along Cedar Lake to deter further shoreline erosion. The wall will consist of reinforced, poured in-place concrete which will be sloped on the lakeward side. It will be 40" high and will vary uniformly in thickness from 30" to 12" from the base to the top. The wall's lakeward face will be at the lake's legal shoreline. A 12" wide layer of glacial stone will be placed at the base of the wall for toe protection. Plans and color photographs are enclosed in the application package.

#### **10. Seawall - New Glacial Stone**

A new seawall will be constructed along the frontage of Lot 22, Harbor Cove addition at Simonton Lake to deter further shoreline erosion. The wall will be composed of 2" to 12" diameter glacial stone and will be approximately 120' long. Its lakeward face will be at the lake's legal shoreline. Plans and color photographs are enclosed in the application package.

#### **11. Seawall - Reface ([view example seawall reface plan](#))**

An existing concrete seawall will be refaced across a portion of the applicant's 102' frontage in the Sunset Vista addition at Webster Lake to prevent further deterioration. The refacing will begin at the eastern property line and will extend west for 52'. It will consist of reinforced, poured in-place concrete which will be tied to the existing wall with steel reinforcing rods. The refacing will have a maximum thickness of 12" and will be sloped on the lakeward side. A 12" wide layer of glacial stone will be placed at the base of the wall for toe protection. A 36" wide concrete walkway will be constructed on top and landward of the lakeward face of the refaced wall. Plans and color photographs are enclosed in the application package.

#### **12. Underwater Beach - Existing**

An existing underwater beach will be improved in front of the applicant's property on James Lake to prevent further beach erosion. A 4" layer of 7/64" diameter clean, washed pea gravel will be placed directly on top of the remaining sand. The placement will begin approximately 20' south of the northern property line and will extend southerly across 40' of the 80' frontage. It will project lakeward for the lesser of 30' or a depth of 6' below the lake's legal level. Color photographs and plans are enclosed in the application package.

#### **13. Underwater Beach - New**

A new underwater beach will be constructed in front of 327 EMS Lane 9 on Cedar Lake to provide an area suitable for swimming. The beach will consist of a 4" to 6" thick layer of 7/64" clean, washed pea gravel placed directly on the lakebed. The beach will begin approximately 40' east of the western property line

and will extend easterly across 30' of the 100' frontage. It will have a maximum lakeward projection of 25'. Color photographs and plans are enclosed in the application package.

**G. Sand and Gravel Mining:**

1. A floating hydraulic suction dredge will be used to perform maintenance dredging around the water intake facility at the Anderson Generating Station along the east bank of the Wabash River to improve the plant's operating efficiency. Approximately 1,500 yd<sup>3</sup> of silt and sand will be removed from a 100' x 200' area to a depth of 2' below the current riverbed. The excavated material will be piped to a detention area where it will be dewatered. Adequate detention time will be provided to allow the suspended sediments to settle out of the decanted water before returning the water to the river. The dewatered silt and sand will be transported to a site on the plant property where it will be used as fill for a building pad. Plans, specifications and color photographs are enclosed in the application package.

**Project Location:**

Provide sufficient project location information to allow Department staff to locate the site on a map and drive directly to it. Include the following items:

**Location Narrative:**

A. Provide a narrative statement detailing the location of the project. The narrative must include the:

1. bank or shoreline;
2. stream or lake name;
3. project limits;
4. nearest city or town;
5. civil township; and
6. county.

B. If available, the following information should also be provided. Some of this information may be found on the property deed, title or land survey:

1. ¼, ¼, ¼ section;
2. section, grant or reserve;
3. township;
4. range; and
5. U.S. Geological Survey 7½ minute series topographic map name.

C. Example Project Locations:

1. Along the left (south) bank of Honey Creek beginning 50' west of State Road 135 and continuing downstream for approximately 900' near Bargsville, White River Township, Johnson County.  
N ½, SE ¼, Section 14, Township 13 N, Range 3 E, Bargsville Quadrangle
2. Along the western shoreline of Pike Lake, across the entire frontage of Lot 7, Sunblest Addition at Warsaw, Wayne Township, Kosciusko County.

NE ¼, SW ¼, SE ¼, Section 5, Township 32 N, Range 6 E, Leesburg Quadrangle

3. Along Needham Booher Ditch beginning at County Road 950 East and continuing downstream approximately 1½ miles to County Road 150 North near Shannondale, Franklin Township, Montgomery County.

Upstream: NE ¼, NE ¼, SW ¼, Section 23, Township 19 N, Range 3 W, Shannondale Quadrangle

Downstream: SE ¼, SE ¼, NW ¼, Section 27, Township 19 N, Range 3 W, Shannondale Quadrangle

### **Driving Directions:**

A. Provide driving directions to the project site from a known, easily identifiable landmark. The directions must include:

1. road names;
2. directions; and
3. distances.

B. Example Driving Directions:

1. Beginning at the intersection of State Road 37 and County Line Road, go east ½ mile to Morgantown Road (County Road 500 West). Turn right (south) on Morgantown Road and continue south for approximately 4 miles to Stones Crossing Road (County Road 700 North). Turn left (east) onto Stones Crossing Road and continue east for approximately ½ mile to the site of the proposed bridge replacement over Honey Creek.

2. Beginning at the intersection of County Road 450 North and County Road 750 East, go south 2 miles to Shore Drive. Turn right (west) on Shore Drive and continue west for approximately 1¼ miles to EMS Lane 34. Turn left (south) on EMS Lane 34 and continue south for approximately ¼ mile to 315 EMS Lane 34 (red brick house with white trim and black shutters).

3. Beginning at the intersection of County Road 1075 East and State Road 32 on the west side of Shannondale, go west 1 mile to County Road 975 East. Turn right (north) on County Road 975 East and continue north for approximately 1½ miles to County Road 225 North. Turn left (west) on County Road 225 North and continue west for ¼ mile to County Road 950 East. Turn right (north) on County Road 950 East and continue north for ¼ mile to the upstream end of the project at the County Road 950 East bridge over Needham Booher Ditch.

### **Special Information:**

A. Convey any special information to Department staff prior to the site inspection. Typical information might include:

1. desire to be present during the site inspection;
2. presence of a dog or other animal at the project site; or
3. request that staff check-in at a security station prior to entering the project site.

B. Example Special Information:

1. There is a guard dog on the property, please contact me to schedule the site inspection when I may be present.

2. Prior to entering the condominium development, you must check-in at the security station and explain why you are inspecting the property.

3. Schedule the field inspection with the County Surveyor.

**Project Location Map:**

A. Provide a map of the general vicinity around the project area so it may be located. If possible, use a U.S. Geological Survey 7½ minute series topographic map for this purpose. The map must include:

1. title block containing:
  - a. applicant's name;
  - b. agent's name (if applicable),
  - c. project title;
  - d. date;
  - e. scale and/or scale bar;
2. north arrow;
3. project location; and
4. general vicinity within ½ to 1 mile of the project location.

B. The following are example project location maps:

-  [1. Stream Project - Page 1](#)
- [2. Stream Project - Page 2](#)
- [3. Lake Project - Page 1](#)
- [4. Lake Project - Page 2](#)
- [5. Lake Project - Page 1](#)
- [6. Lake Project - Page 2](#)

**Project Site Map:**

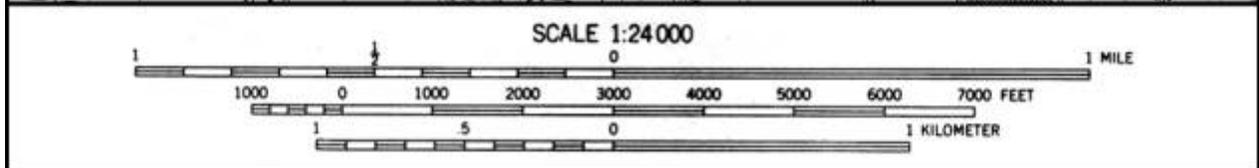
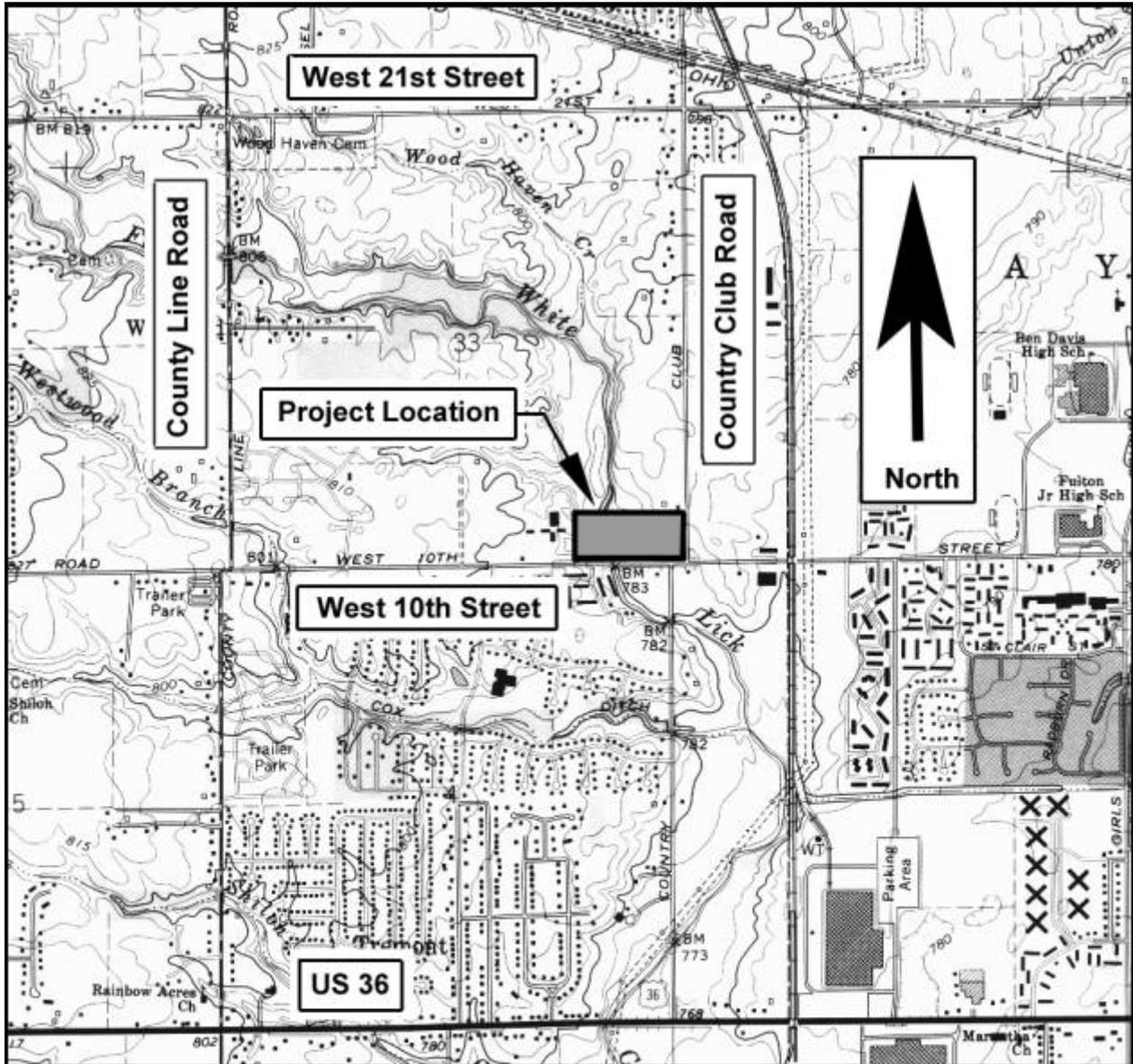
A. Provide a map giving basic information on the project site. The project site map must be shown on the best available mapping and must include:

1. title block containing
  - a. applicant's name;
  - b. agent's name (if applicable),
  - c. project title;
  - d. date;
  - e. scale and/or scale bar;
2. north arrow;
3. clearly defined project site limits;
4. property lines;
5. general vicinity around the project site; and
6. distances from roadways and/or landmarks.

B. The following are example project location maps:

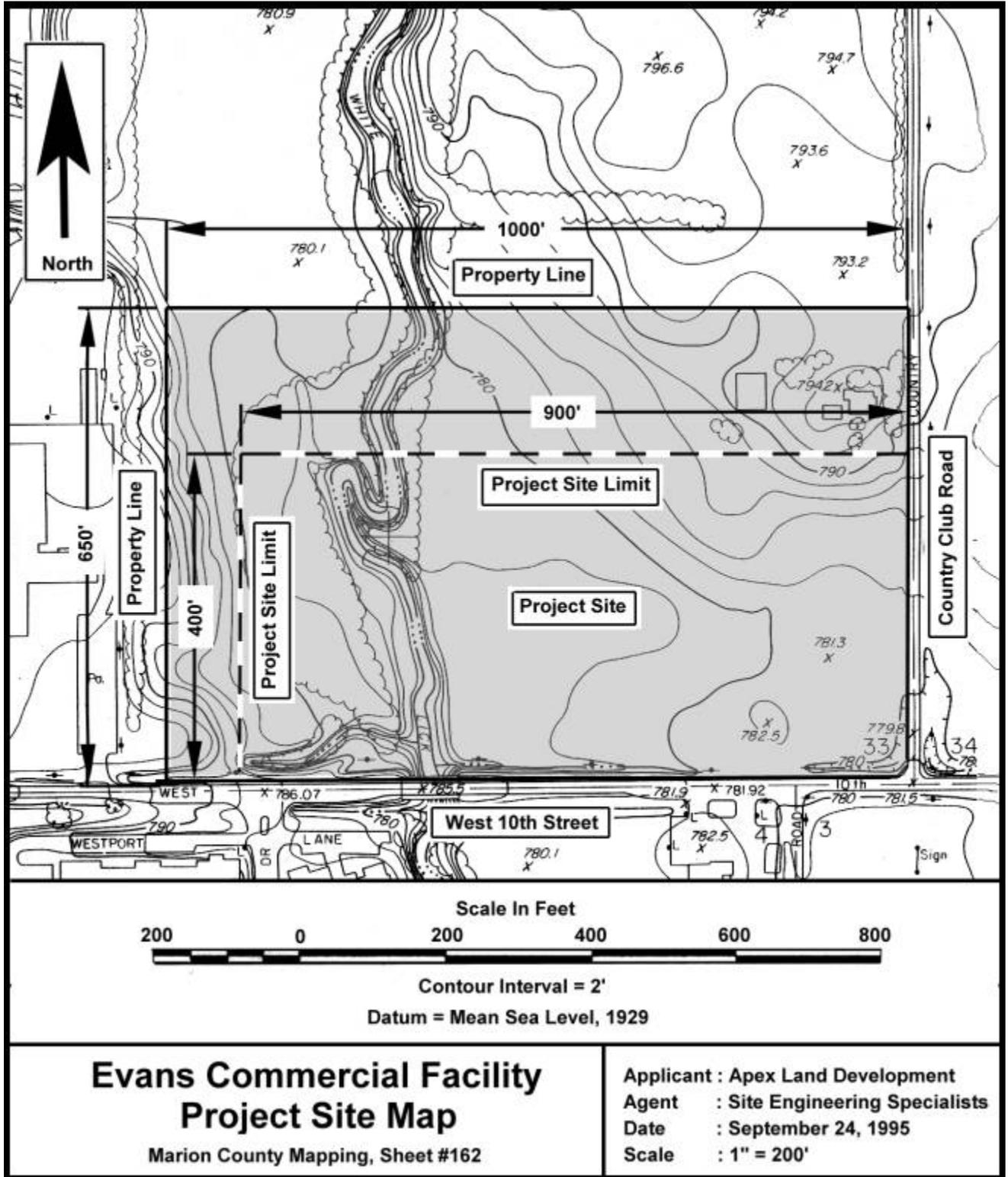
- [1. Stream Project - Page 1](#)
- [2. Stream Project - Page 2](#)
- [3. Lake Project - Page 1](#)
- [4. Lake Project - Page 2](#)
- [5. Ditch Project - Page 1](#)
- [6. Ditch Project - Page 2](#)

Example Project Location Map - Stream - Page 1

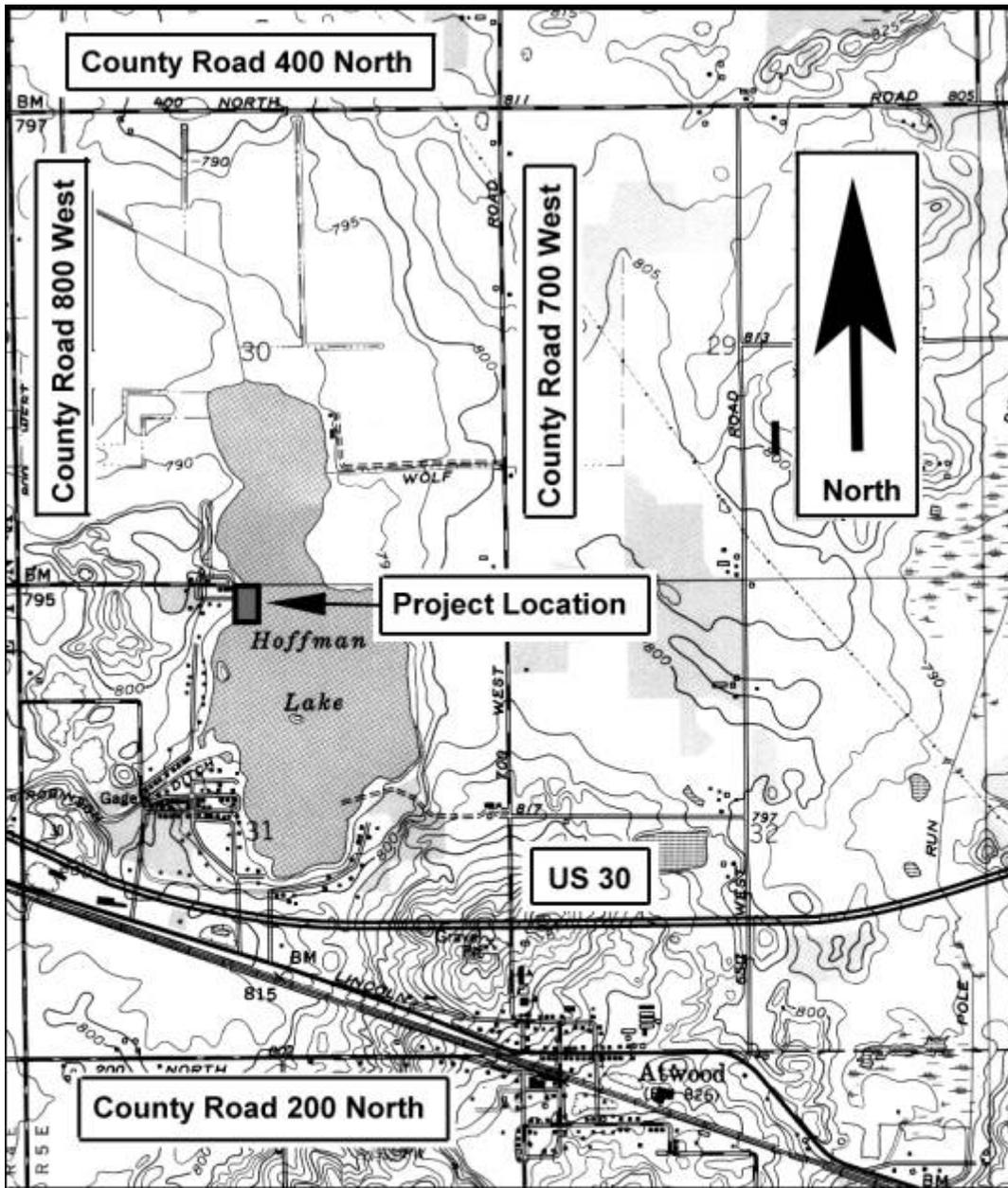


<p><b>Evans Commercial Facility</b> <b>Project Location Map</b> Clermont Quadrangle</p>	<p><b>Applicant : Apex Land Development</b> <b>Agent : Site Engineering Specialists</b> <b>Date : September 24, 1995</b> <b>Scale : 1" = 2000'</b></p>
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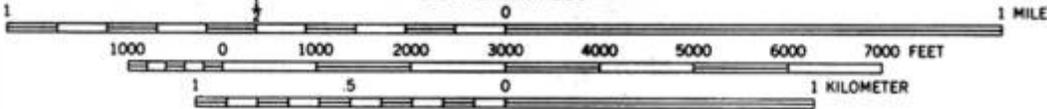
Example Project Location Map - Stream - Page 2



Example Project Location Map - Lake - Page 1



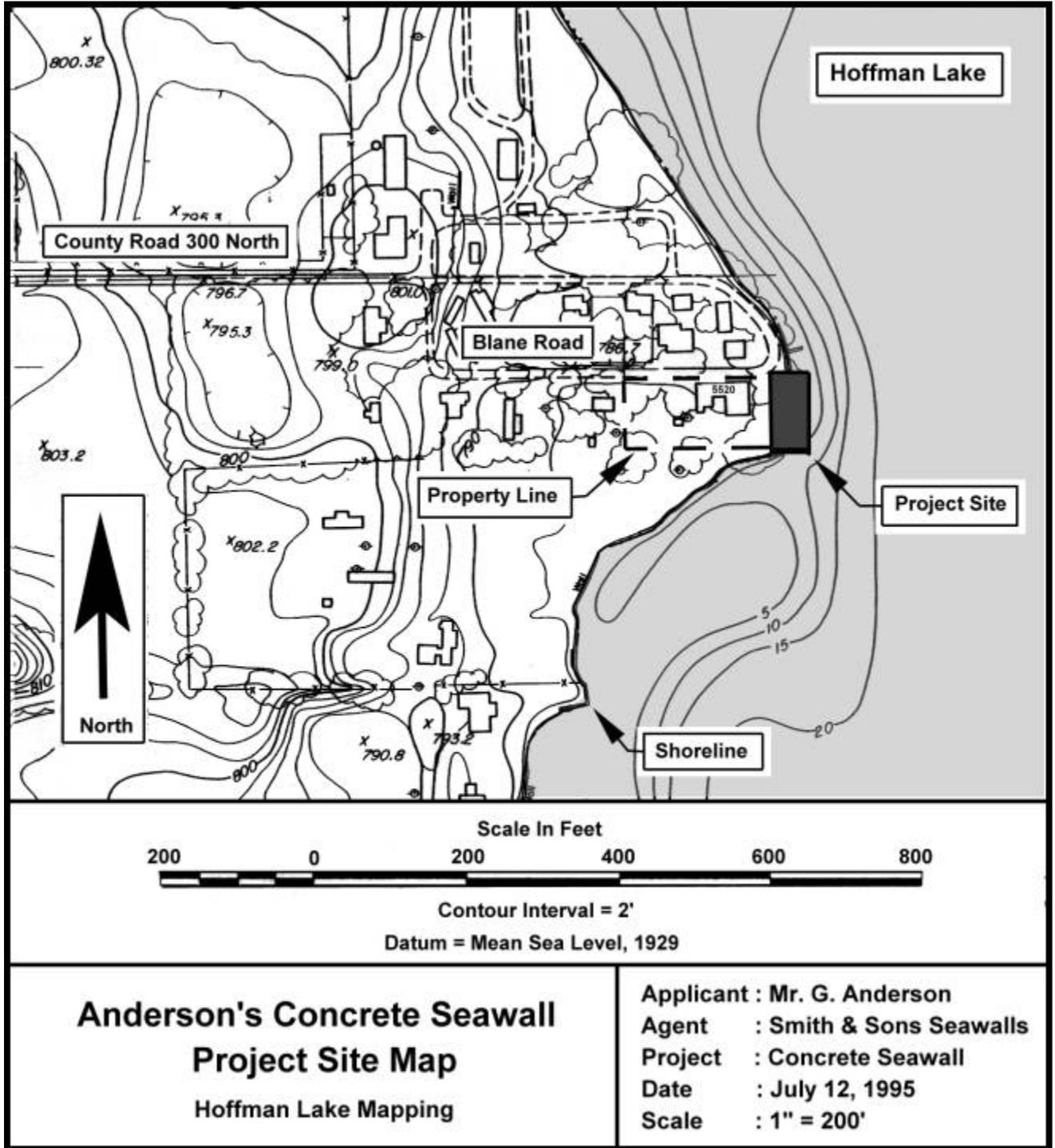
SCALE 1:24 000



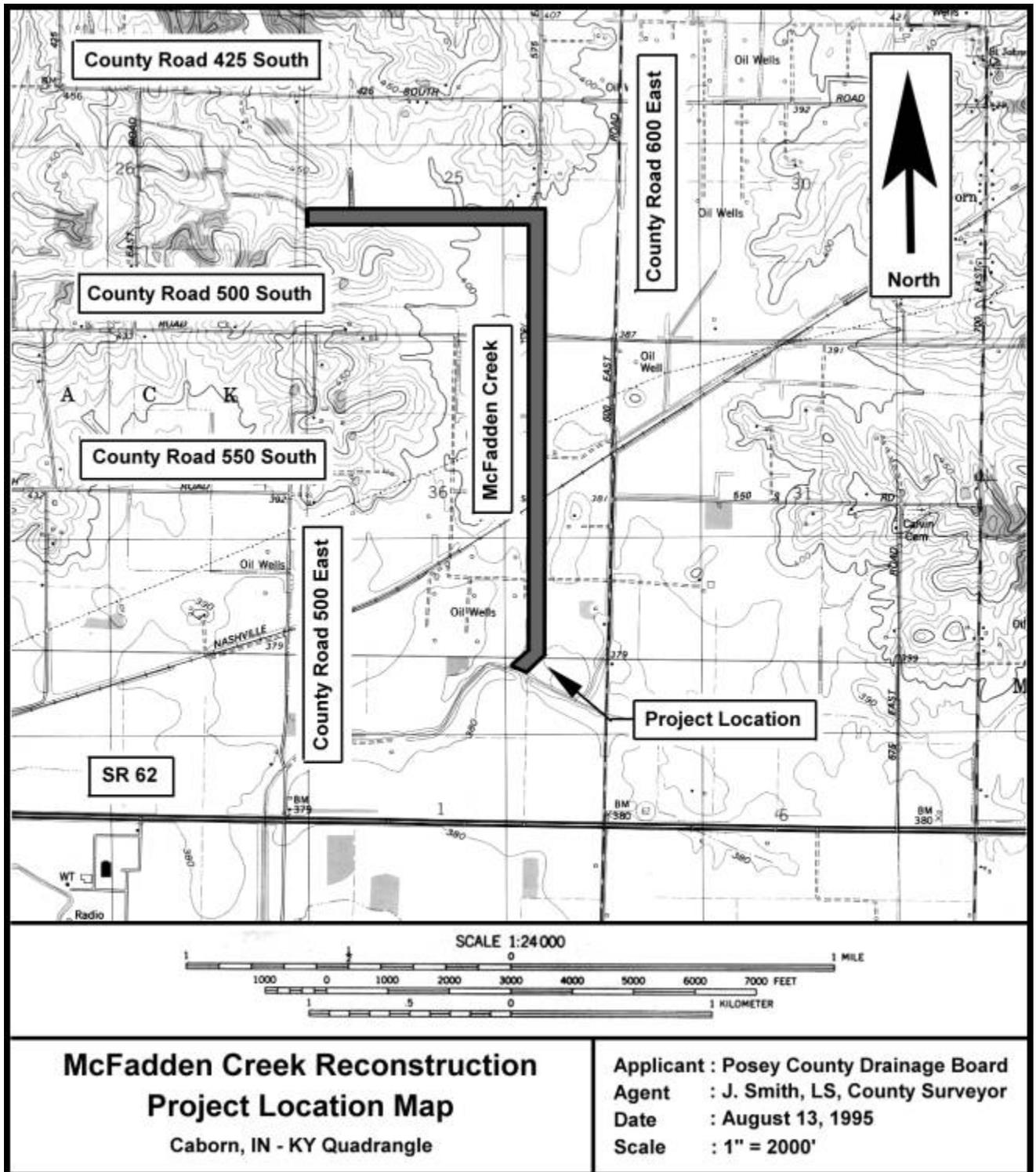
**Anderson's Concrete Seawall  
Project Location Map  
Atwood Quadrangle**

Applicant : Mr. G. Anderson  
Agent : Smith & Sons Seawalls  
Project : Concrete Seawall  
Date : July 12, 1995  
Scale : 1" = 2000'

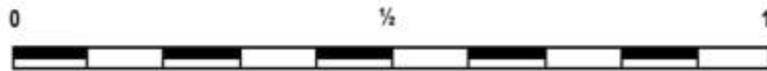
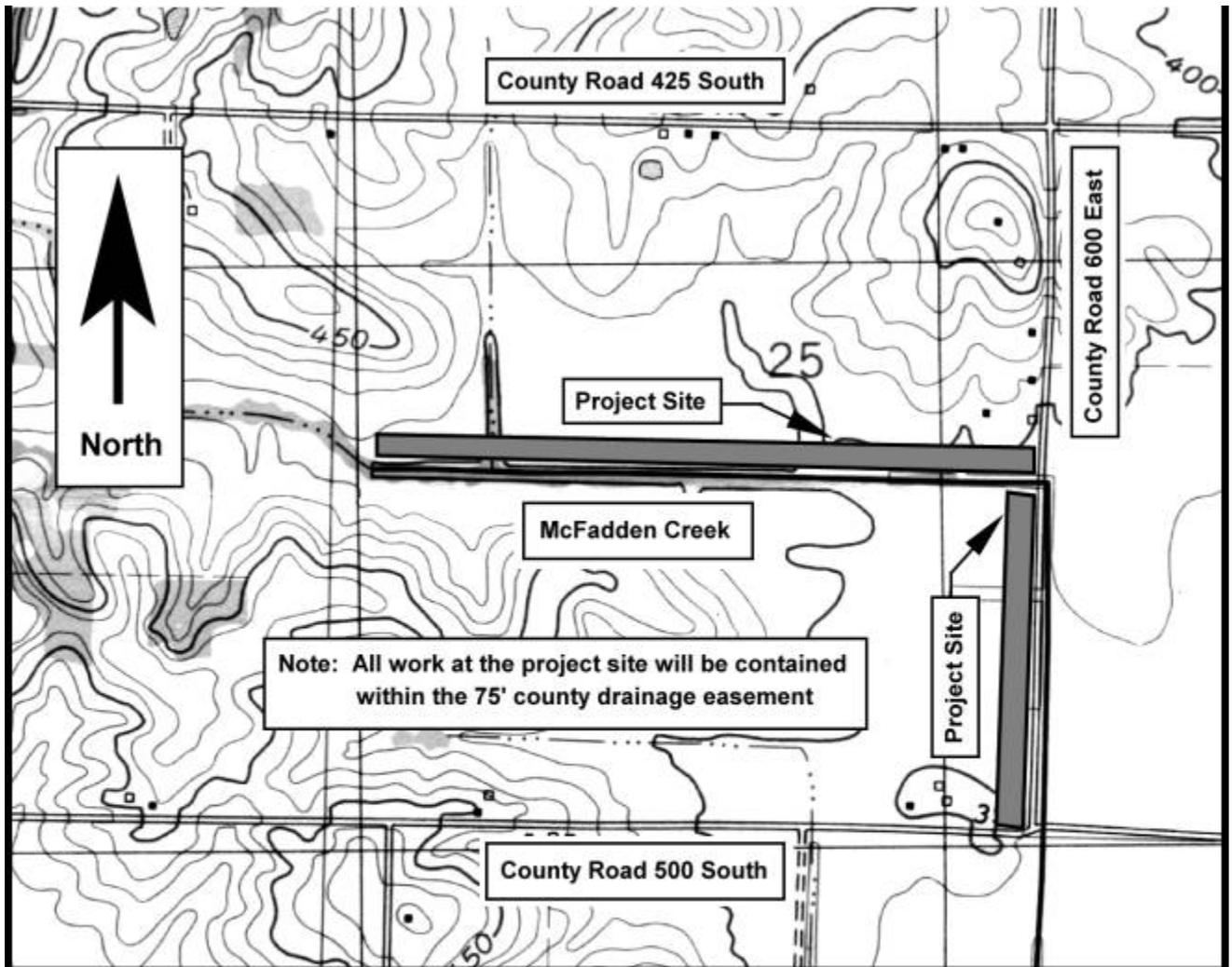
Example Project Location Map - Lake - Page 2



Example Project Location Map - Ditch - Page 1



Example Project Location Map - Ditch - Page 2



Scale: 1" = 800'

**McFadden Creek Reconstruction  
Project Site Map - Upstream Segment**

Caborn, IN - KY Quadrangle

Applicant : Posey County Drainage Board  
 Agent : J. Smith, LS, County Surveyor  
 Date : August 13, 1995  
 Scale : 1" = 800'

## **Disturbed Area Drawing**

Provide a drawing containing sufficient information to allow Department staff to visualize the area and magnitude of the land disturbing activities.

### **2-7-1 Drawing Requirements:**

- A. The disturbed area drawing must include:
1. delineation of the area(s) to be disturbed including;
    - a. vegetation type(s), e.g. forest, wetlands, crop field, etc;
    - b. size of the disturbed area(s);
    - c. distance(s) to the top of bank or shoreline; and
    - d. right(s)-of-way and/or property line(s).
  2. north arrow; and
  3. title block containing:
    - a. applicant's name;
    - b. agent's name, (if applicable); and
    - c. project title.

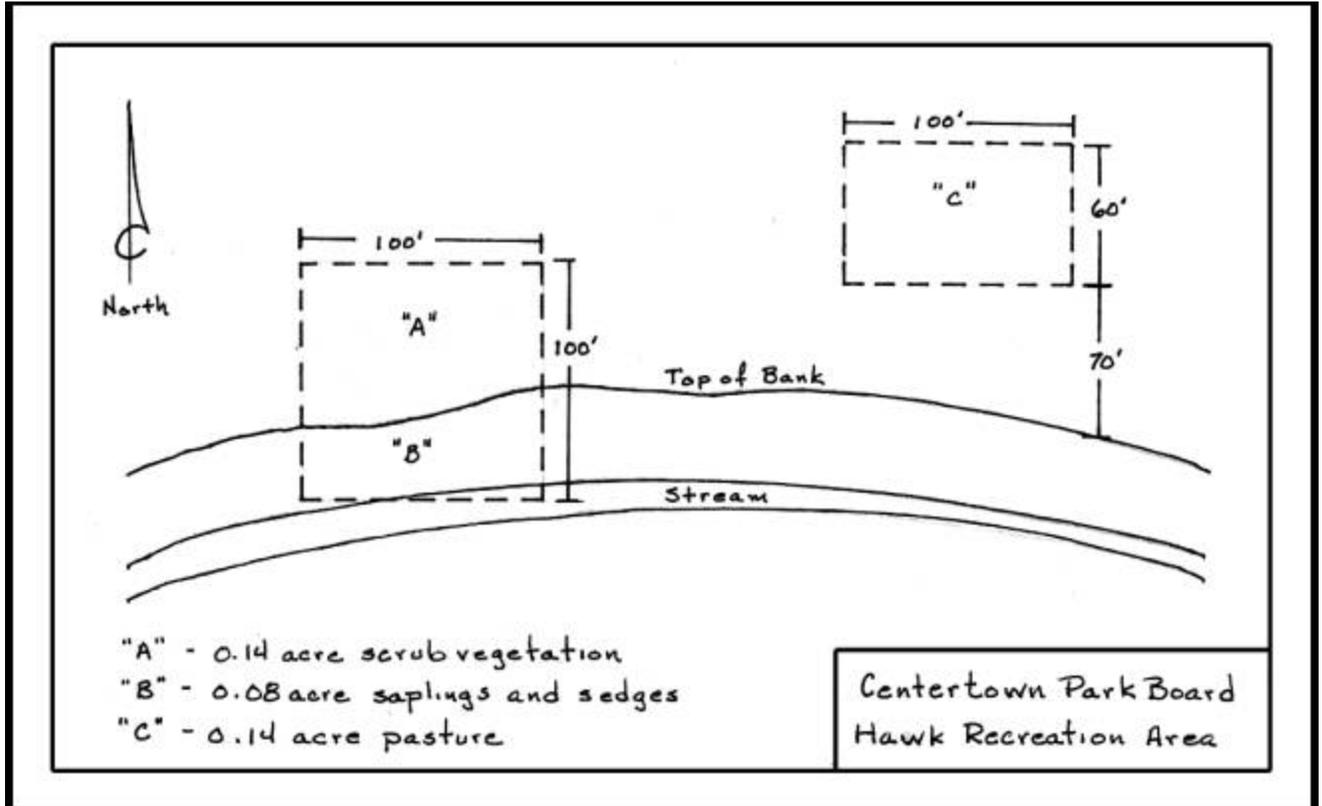
B. The following are examples of disturbed area drawings:

[1. Example Manual Disturbed Area Drawing](#)

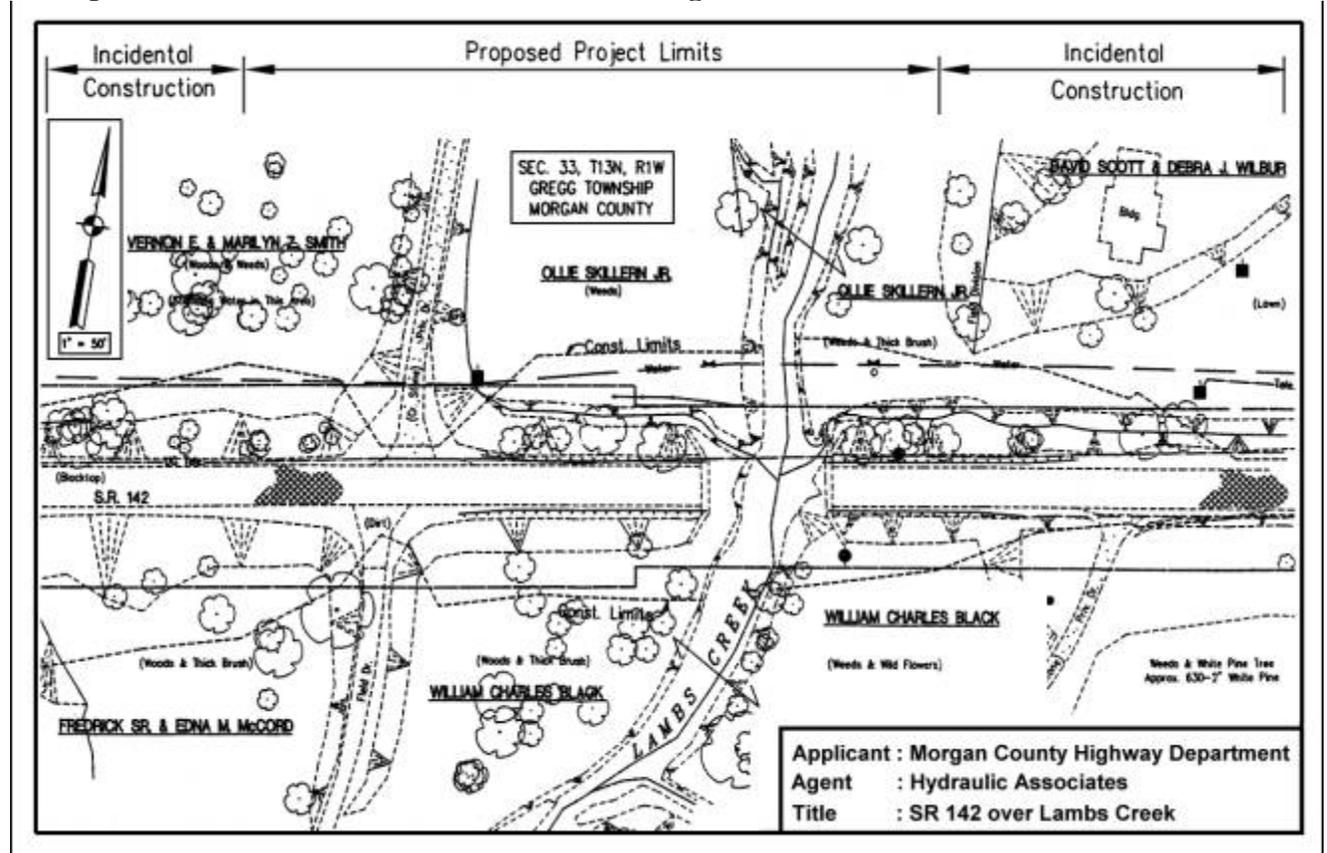
[2. Example CAD Generated Disturbed Area Drawing](#)



# Example Manual Disturbed Area Drawing



## Example CAD Generated Disturbed Area Drawing



### Project Photographs:

Provide sufficient color photographic documentation to allow Department staff to visualize the project site and surrounding area. Include the following items:

### Images:

- A. Provide photographic images in one or more of the following forms:
  1. normal, land based, color photographic prints;
  2. panoramic, land based, color photographic prints;
  3. color photocopies of normal and/or panoramic land based, color photographic prints; and/or
  - 4 land based, color digital images.
- B. Aerial photographic prints and/or VHS videotape may be provided as a supplement to the documentation; however, they may not be used as a substitute for the land based photography.
- C. The images should be taken during the late Spring through early Fall so the vegetation may be clearly depicted. If they cannot be taken during this time period, the site must be free of snow and ice cover.

### Photo Orientation Map:

- A. Provide a simplified map detailing the location and orientation of each image. The map, sized to cover the project site and surrounding area, must include the following:

1. title block containing:
  - a. applicant's name;
  - b. agent's name, (if applicable);
  - c. project title;
  - d. date;
2. number and orientation of each image;
3. north arrow; and
4. flow direction, (if applicable).

B. Maps detailing the quantity, orientation and subject matter of the photographic images required for various project types have been included later in this section. They are presented for overall guidance, project conditions may necessitate some variation from the information shown. The applicant must exercise judgment when selecting the number and orientation of the actual site images.

### **Photo Documentation:**

A. Mount the images on 8½" x 11" white bond paper with no more than 3 images per sheet. Describe the parameters and content of each image through a narrative statement placed on the page on which the image is mounted. The statement must include each of the following:

1. image number (as shown on the orientation map);
2. direction taken;
3. date taken; and
4. statement on the image's content.
  - a. include any special information to be brought to the Department's attention.

### **Suggested Orientation Maps and Photo Locations:**

A. Suggested photo orientation maps and documentation are included on the following pages.

- [1. Bank Protection Project](#)
- [2. Bridge, Culvert, or Ford](#)
- [3. Channel - New or Realignment](#)
- [4. Channel - Reconstruction](#)
- [5. Development](#)
- [6. Dredging or Sediment Trap](#)
- [7. Fill](#)
- [8. Levee](#)
- [9. Outfall](#)
- [10. Utility Line](#)
- [11. Boat Ramp or Boat Well](#)
- [12. Channel Dredging](#)
- [13. Lakebed Dredging](#)
- [14. Pier](#)
- [15. Seawall - New or Reface](#)
- [16. Underwater Beach](#)

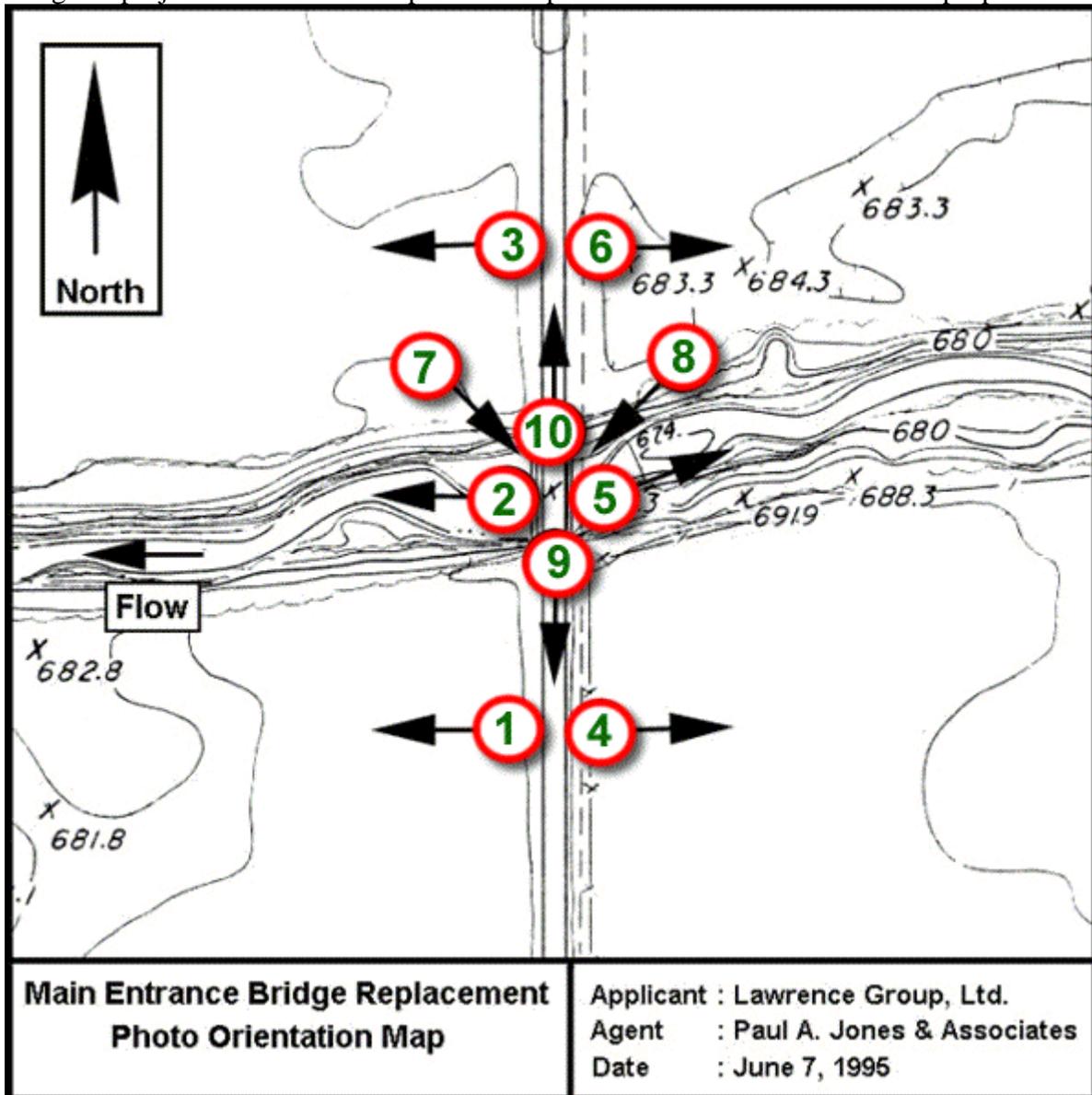
B. Due to the size and/or complexity of certain project types, their photo orientation and documentation cannot be depicted through generalized examples. For these project types, or any other which the applicant believes cannot be typified via the examples, consultation with the

Division of Water is advised prior to the preparation of the photographic documentation. Projects subject to consultation include:

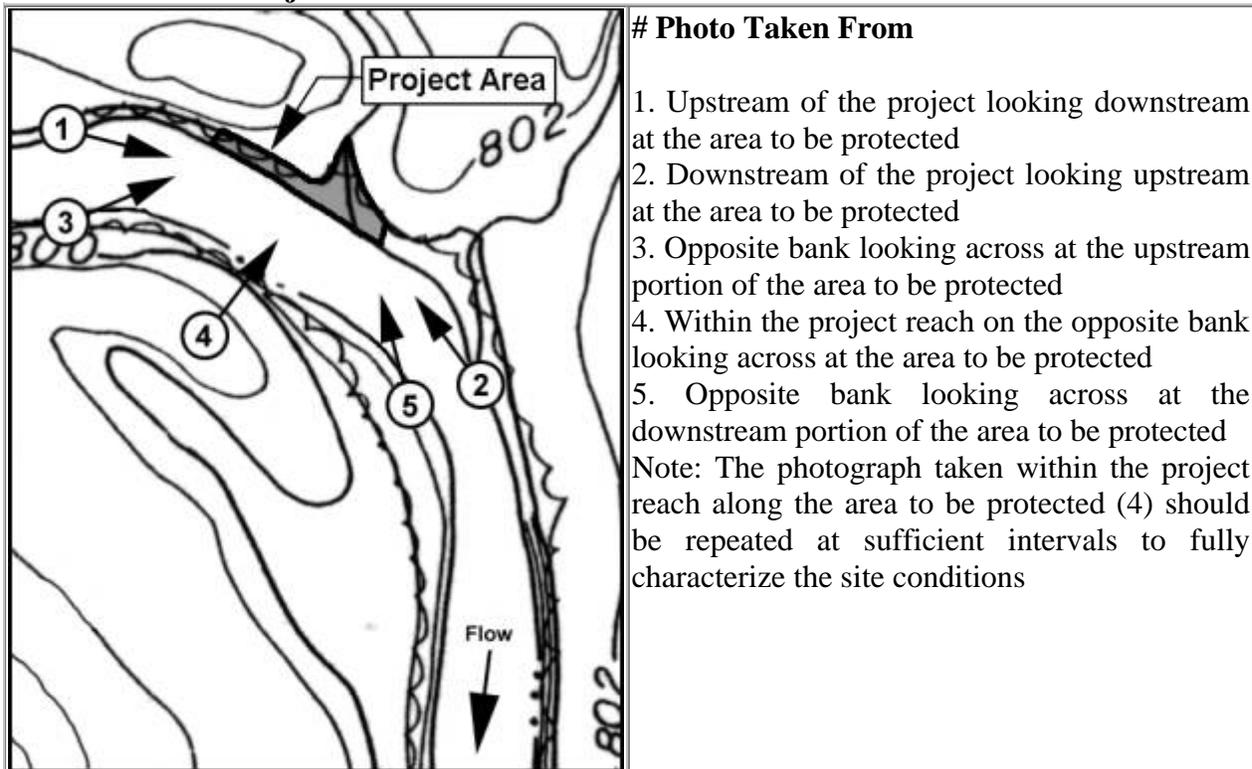
1. access channels;
2. dams;
3. fish attractors;
4. golf courses;
5. Lake Michigan projects; or
6. sand and/or gravel operations.

**Example Photo Orientation Map and Documentation:**

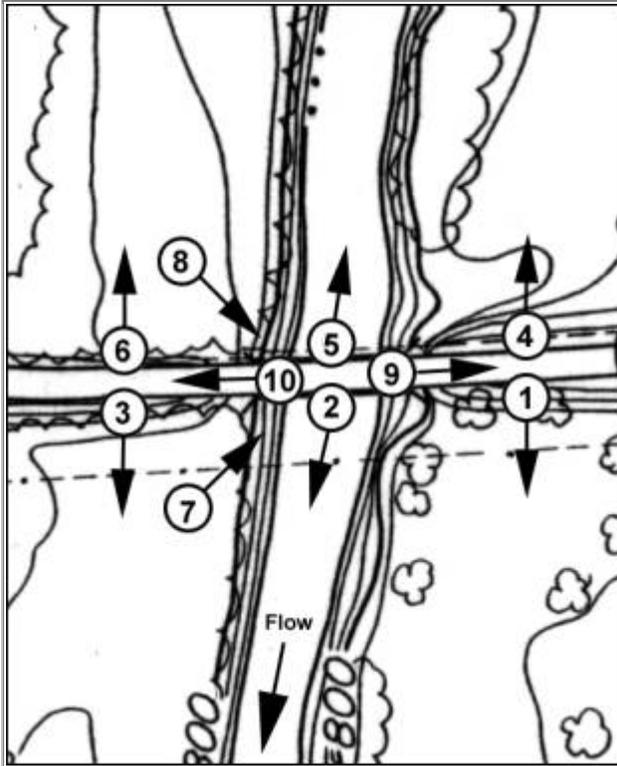
A. The following is an example of a photo orientation map and documentation for a typical bridge project. This example is presented for illustrative purposes only.



### Bank Protection Project



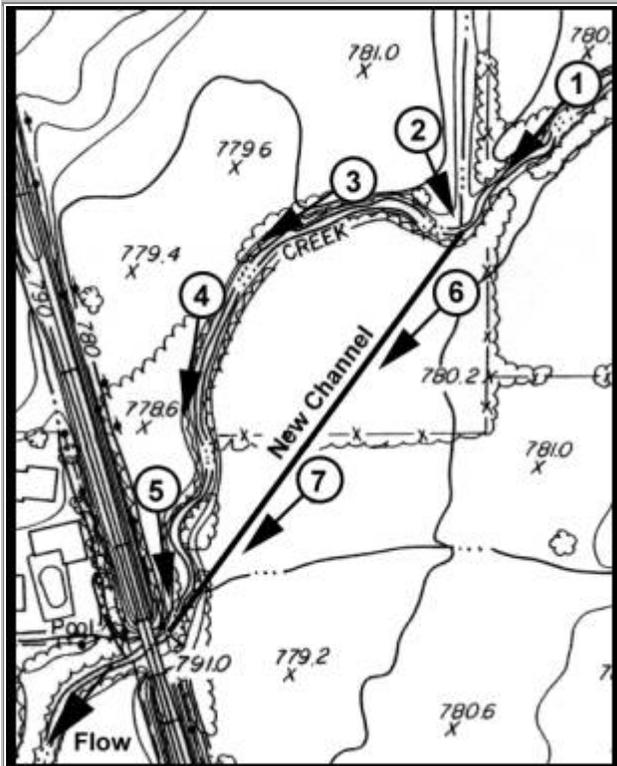
### Bridge, Culvert, or Ford



**# Photo Taken From**

1. Roadway in the left floodplain looking downstream at the left floodplain
2. Structure looking downstream at the channel
3. Roadway in the right floodplain looking downstream at the right floodplain
4. Roadway in the left floodplain looking upstream at the left floodplain
5. Structure looking upstream at the channel
6. Roadway in the right floodplain looking upstream at the right floodplain
7. Downstream floodplain looking upstream at the structure
8. Upstream floodplain looking downstream at the structure
9. Structure looking at the roadway in the left floodplain
10. Structure looking at the roadway in the right floodplain

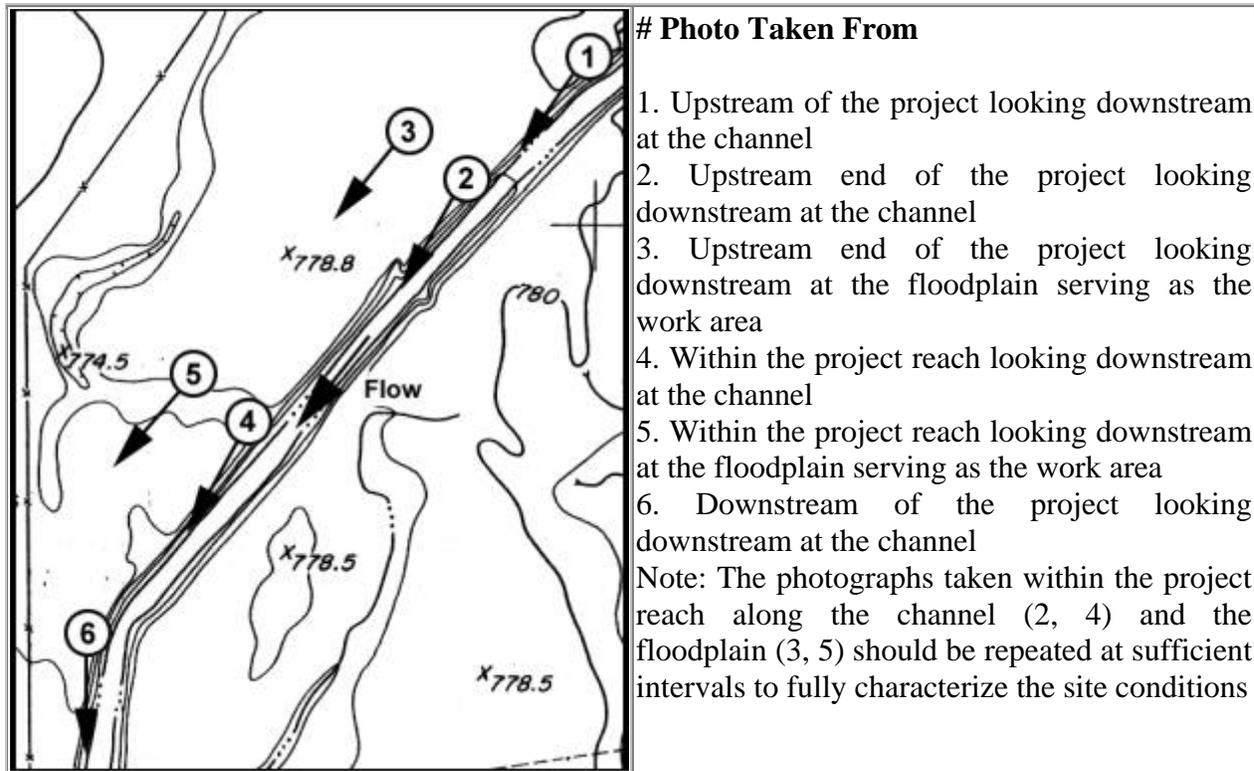
**Channel - New or Realignment**



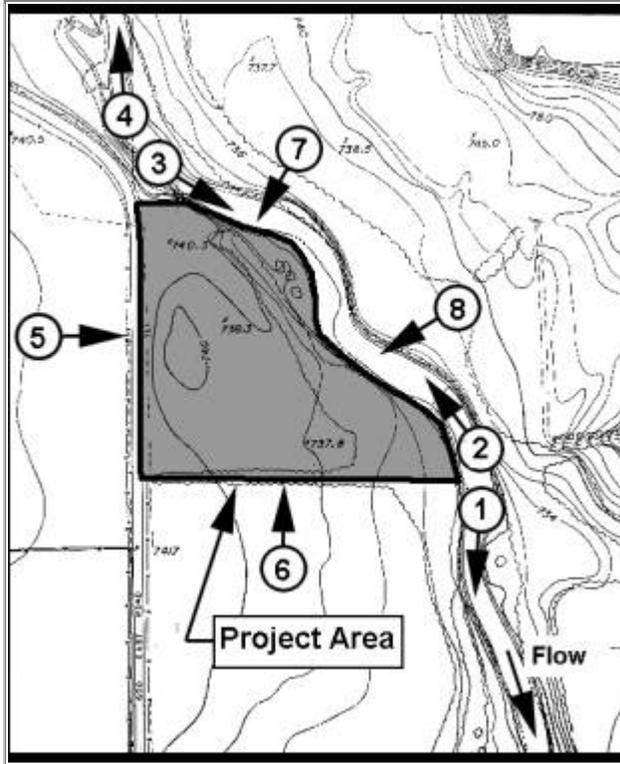
**# Photo Taken From**

1. Upstream of the new channel looking downstream at the existing channel
  2. Looking across at the upstream intersection of the new and existing channels
  3. Within the project reach looking downstream at the existing channel
  4. Within the project reach looking downstream at the existing channel
  5. Looking across at the downstream intersection of the new and existing channels
  6. Within the project reach looking downstream along the alignment of the new channel
  7. Within the project reach looking downstream along the alignment of the new channel
- Note: The photographs taken within the project reach along the existing channel (3, 4) and the new channel (6, 7) should be repeated at sufficient intervals to fully characterize the site conditions

## Channel - Reconstruction



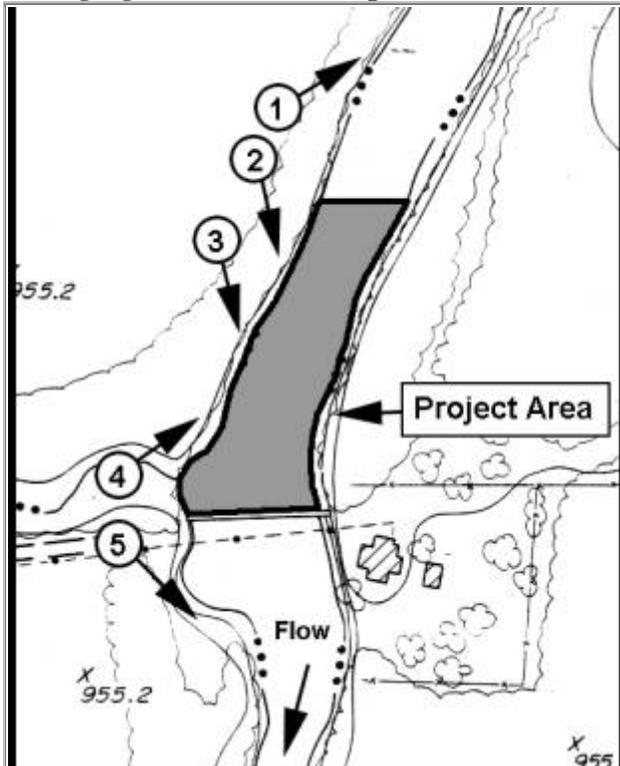
## Development



**# Photo Taken From**

1. Downstream looking downstream at the channel
  2. Downstream looking upstream at the channel
  3. Upstream looking downstream at the channel
  4. Upstream looking upstream at the channel
  5. Floodplain looking toward the channel at the site
  6. Floodplain downstream of the site looking upstream
  7. Opposite floodplain looking at the site
  8. Opposite floodplain looking at the site
- Note: The photographs taken of the site (2,3, 5, 6, 7, 8)) should be repeated at sufficient intervals to fully characterize the site conditions.  
 Photographs must also be submitted for the individual project components according to the criteria established for the components

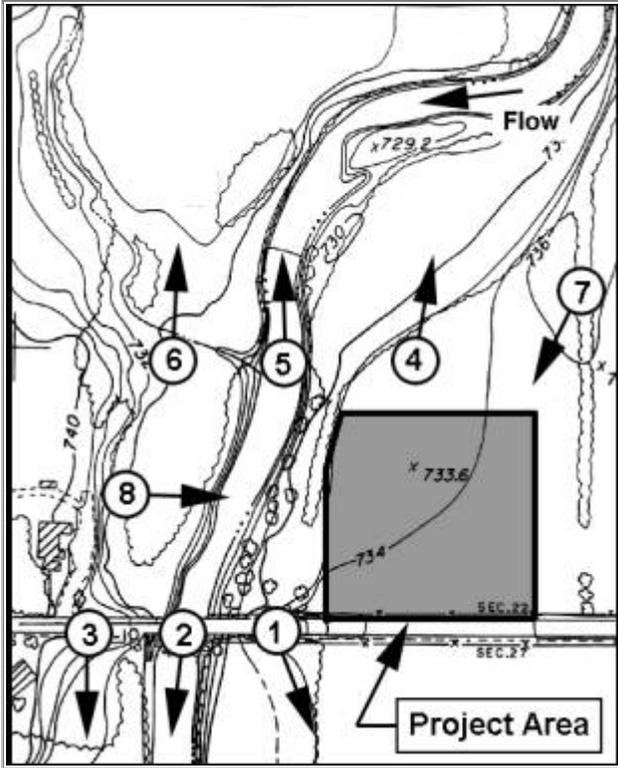
**Dredging or Sediment Trap**



**# Photo Taken From**

1. Upstream of the project site looking upstream at the channel
  2. Upstream end of the project looking downstream at the area to be dredged
  3. Within the project area looking downstream at the area to be dredged
  4. Downstream end of the project looking upstream at the area to be dredged
  5. Downstream of the project site looking downstream at the channel
- Note: The photograph taken of the area to be dredged (3) should be repeated at sufficient intervals to fully characterize the site conditions

**Fill**

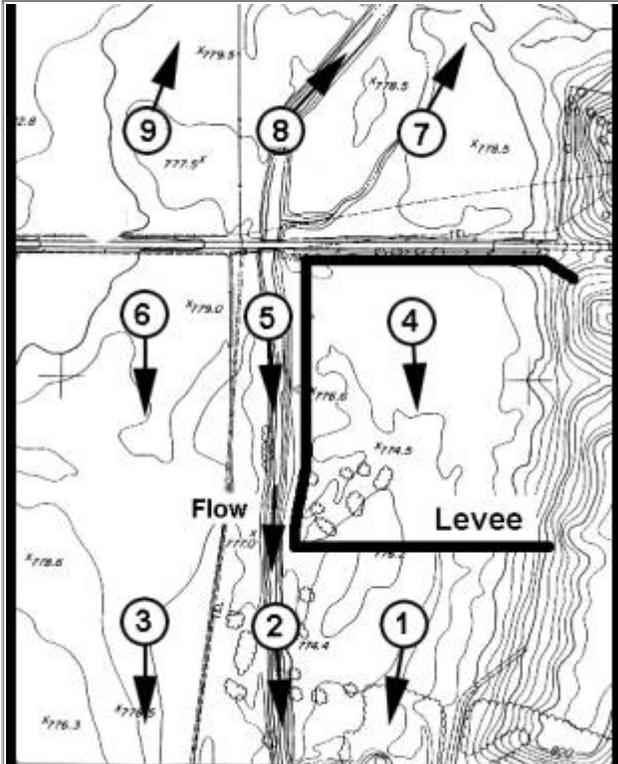


**# Photo Taken From**

1. Left floodplain looking downstream at the left floodplain
2. Channel bank looking downstream at the channel
3. Right floodplain looking downstream at the right floodplain
4. Left floodplain looking upstream at the left floodplain
5. Channel bank looking upstream at the channel
6. Right floodplain looking upstream at the right floodplain
7. Floodplain looking downstream at the project site
8. Opposite floodplain looking across at the area to be filled

Note: The photographs taken of the project area (7, 8) should be repeated at sufficient intervals to fully characterize the site conditions

**Levee**

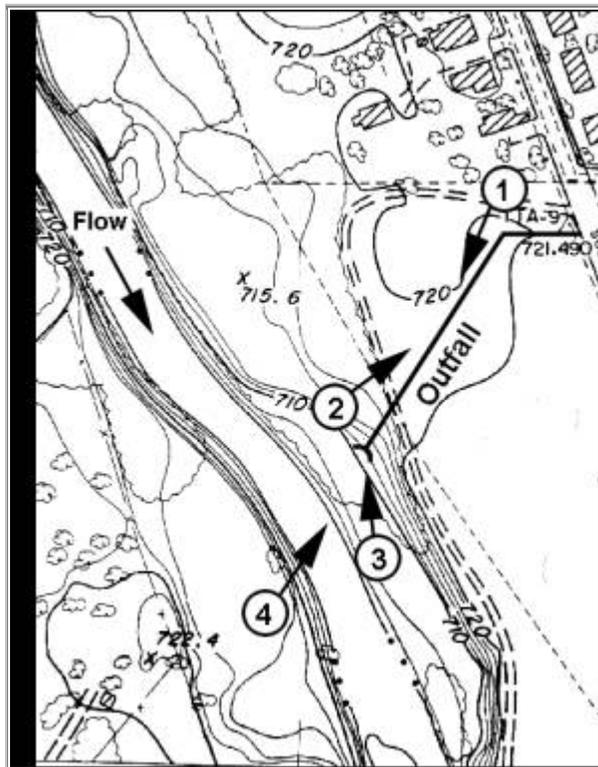


**# Photo Taken From**

1. Left floodplain looking downstream at the left floodplain
2. Channel bank looking downstream at the channel
3. Right floodplain looking downstream at the right floodplain
4. Left floodplain looking downstream at the left floodplain within the area to be protected by the levee
5. Channel bank looking downstream at the channel along the levee
6. Right floodplain looking downstream at the right floodplain opposite of the levee
7. Left floodplain looking upstream at the left floodplain
8. Channel bank looking upstream at the channel
9. Right floodplain looking upstream at the right floodplain

Note: The photographs taken within the levee reach (4, 5, 6) should be repeated at sufficient intervals to fully characterize the site conditions

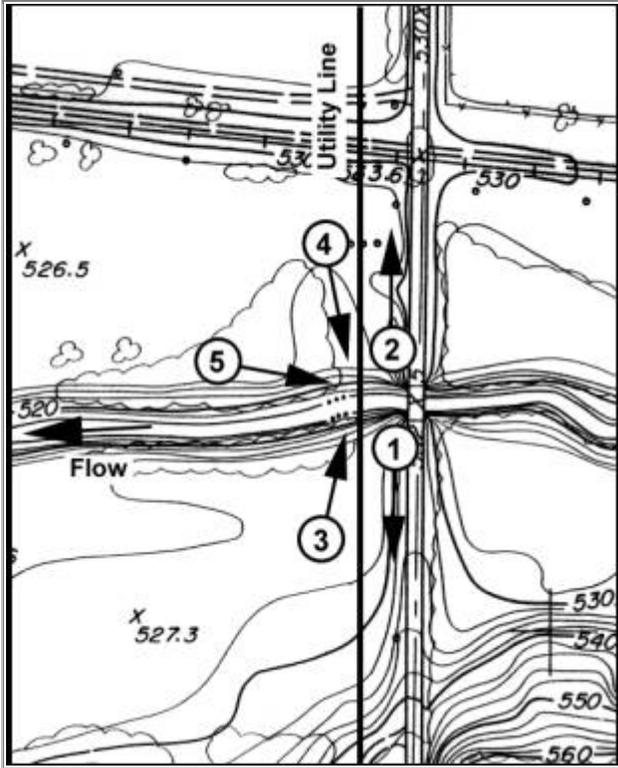
## Outfall



## # Photo Taken From

1. Floodplain looking toward the channel along the outfall pipe
2. Near the outfall structure looking away from the channel along the outfall pipe
3. Channel bank looking at the outfall structure
4. Opposite channel bank looking at the outfall structure

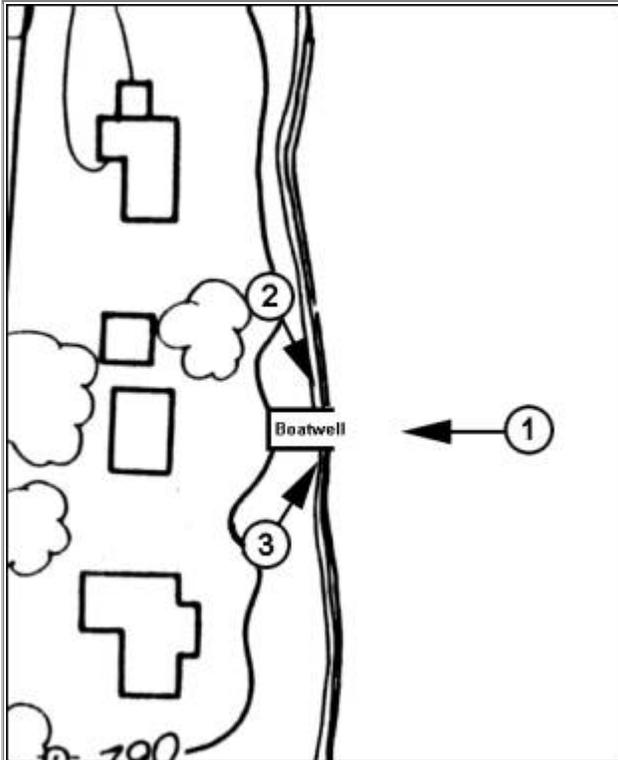
## Utility Line



**# Photo Taken From**

1. Left floodplain near the channel looking away from the channel along the utility line
2. Right floodplain near the channel looking away from the channel along the utility line
3. Left floodplain away from the channel looking toward the channel along the utility line
4. Right floodplain away from the channel looking toward the channel along the utility line
5. Right floodplain along the channel downstream of the utility line looking upstream at the utility line crossing

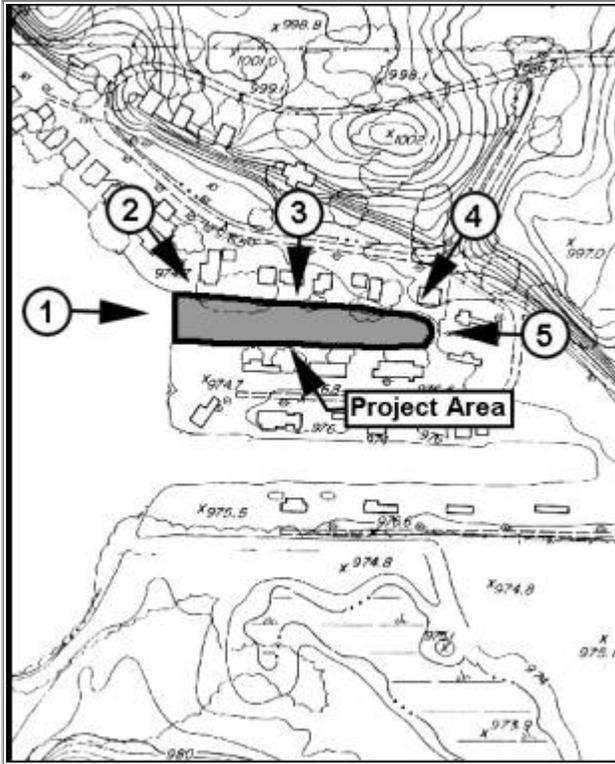
**Boat Ramp or Boat Well**



**# Photo Taken From**

1. Lake looking at the boatwell site
2. Shoreline looking at the boatwell site
3. Shoreline looking at the boatwell site

**Channel Dredging**

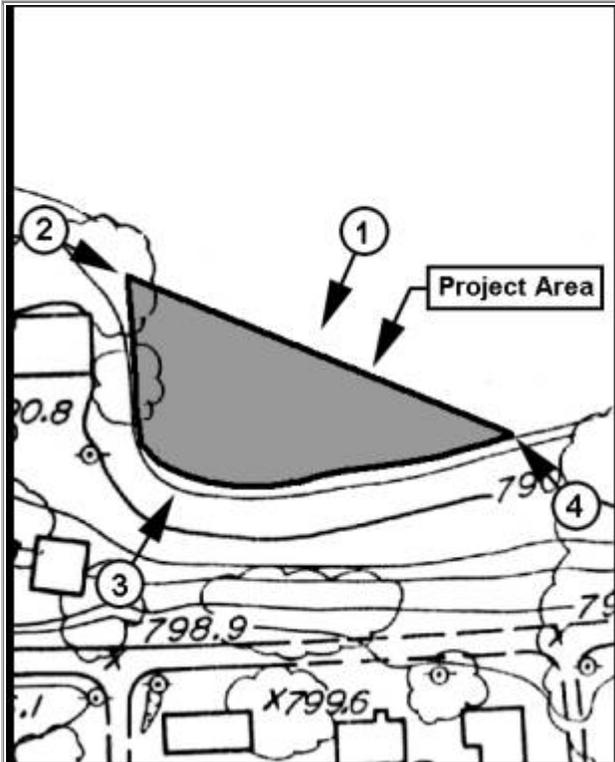


**# Photo Taken From**

1. Lake looking landward at the project area
2. Shoreline looking at the lakeward end of the project area
3. Shoreline looking at the project area
4. Shoreline looking at the landward end of the project area
5. End of the channel looking lakeward at the project area

Note: The photograph taken along the project area (3) should be repeated at sufficient intervals to fully characterize the site conditions

**Lakebed Dredging**

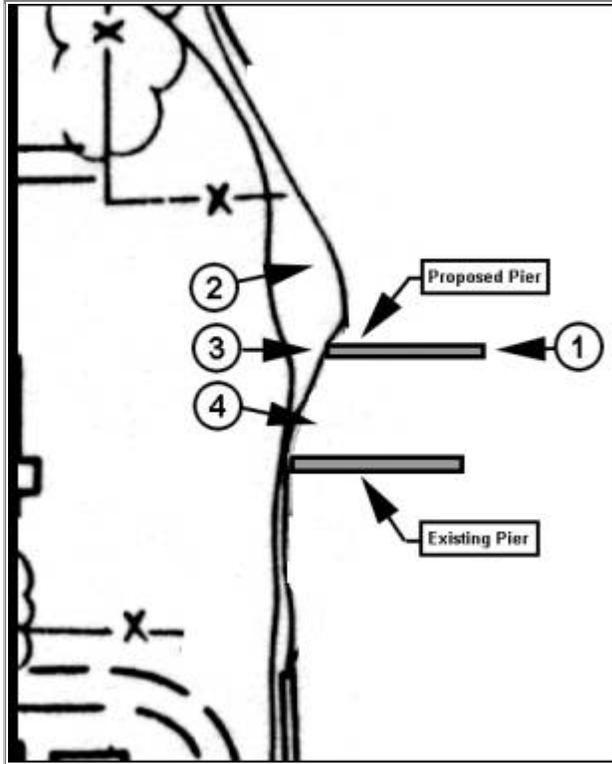


**# Photo Taken From**

1. Lake looking landward at the project area
2. Shoreline looking across at the project area
3. Shoreline looking lakeward at the project area
4. Shoreline looking across at the project area

Note: The photographs of the project area (1, 2, 3, 4) should be repeated at sufficient intervals to fully characterize the site conditions

**Pier**

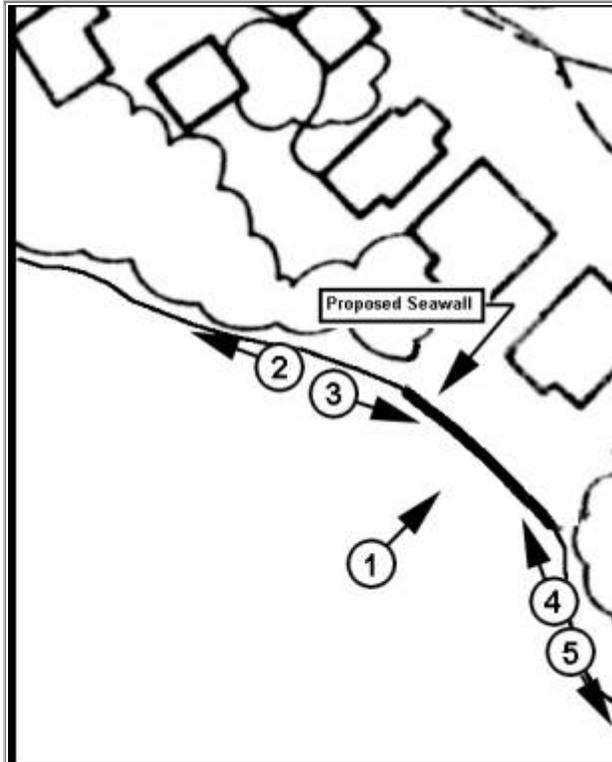


**# Photo Taken From**

1. Lake looking landward along the proposed pier
2. Shoreline looking lakeward and away from the proposed pier
3. Land looking lakeward along the proposed pier
4. Shoreline looking lakeward and away from the proposed pier

Note: The photographs taken on the side of the proposed pier (2, 4) should be oriented to show piers on adjacent properties.

**Seawall - New or Reface**

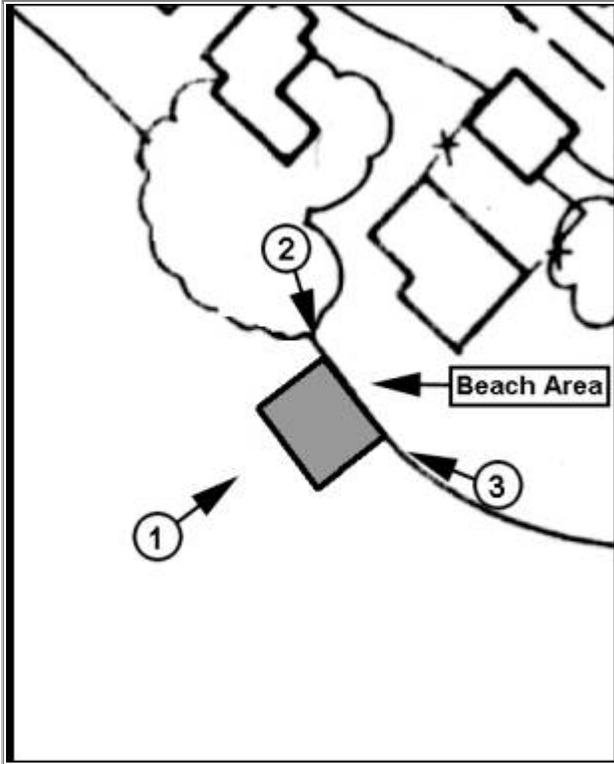


**# Photo Taken From**

1. Lake looking landward at the seawall
2. Shoreline at the end of the seawall looking away from the project
3. Shoreline at the end of the seawall looking along the project
4. Shoreline at the end of the seawall looking along the project
5. Shoreline at the end of the seawall looking away from the project

Note: The photographs taken of the seawall (1, 3, 4) should be repeated at sufficient intervals to fully characterize the site conditions.

**Underwater Beach**



**# Photo Taken From**

1. Lake looking landward at the underwater beach area
2. Shoreline looking at the beach area
3. Shoreline looking at the beach area

If applicable, provide reference number(s) used by other State and/or federal agencies for related project information and submit copies of the document(s) with the application. Typically these include, but are not limited to, Department of Natural Resources' violation letters, recommendation letters or permits, Department of Environmental Management 401 Water Quality Certifications, Corps' of Engineers public notices or permits, etc. Examples by agency are as follows:

**Reference Number Examples:**

**Department of Natural Resources**

Type	Example(s)	
<b>Administrative Cause #</b>		93-140W
<b>Early Coordination #</b>	NEPA or Private Requests	2789
	Senate Enrolled Act 368	SEA 10
	State Budget Agency	IN-95725-350
<b>Recommendation #</b>		08-950911-1
<b>Related Application #</b>	Access Channel	AC-9
	Ditch Reconstruction	DR-231
	Construction in a Floodway	FW-16,523
	Lake Michigan	LM-85
	Navigable Waterway	NW-31
	Public Freshwater Lake	PL-14,238
	Sand and Gravel Removal	SG-56
	Note: Floodway applications received by DNR prior to 03/01/93 were assigned a single letter identifier; A, B, D, F, G, L, M, R, S, T, U or X, instead of the current FW identifier.	
<b>Utility Exemption #</b>		UX-95224
<b>Violation #</b>	Access Channel	V-0256-AC
	Dam	V-3412-DM
	Ditch Reconstruction	V-0298-DR
	Construction in a Floodway	V-0583-FW
	Lake Michigan	V-1867-LM
	Navigable Waterway	V-0176-NW
	Public Freshwater Lake	V-2473-PL
	Sand and Gravel Removal	V-0043-SG

**Department of Environmental Management**

Type	Example(s)
Section 401 #	When applicable, IDEM uses the Corps' of Engineers number, otherwise, reference is made to the applicant's name

**Corps of Engineers**

Type	Example(s)
Public Notice #	Detroit District  Louisville District
	89-70-6-8901 or 95-146-605-0A  199400311 or 993000336-gdn
Section 10 Application #	Same as the Public Notice #
Section 404 Application #	Same as the Public Notice #

**Other Examples**

Type	Example(s)
County Bridge #	Rush County No. 192
InDOT Structure #	BRZ-9953(8)41-45-7466I-74-109-4196A
National Dam Inventory #	IN00777
State Dam Inventory #	55-97

**Related Project Information:**

- A. Submit photocopies of the applicable document(s) with the application.
- B. Examples of typical related project information document(s) are on the following pages. The examples are for illustration only, the format of the actual document(s) may vary from those presented.

# IDNR Floodplain Analysis and Regulatory Assessment (FARA) Letter

THIS IS NOT A PERMIT

MAILED OCT 04 2001

State of Indiana  
DEPARTMENT OF NATURAL RESOURCES  
Division of Water

## FLOODPLAIN ANALYSIS / REGULATORY ASSESSMENT

**File:** GN-16027-1 **Request Received:** September 17, 2001

**Requestor / Agent:** Palm & Associates, Inc.  
Robert D Palm, I.S.  
PO Box #60  
New Carlisle, IN 48552

**Waterbody:** Geyser Ditch

**Community:** St. Joseph County

**FEMA Map Id / Map type:** 180224 0075A / FIRM **Map Date:** August 15, 1978

**Request Site:** Extends about 1300 feet north of the south section line and extends from about 1300 to 2600 feet east of Terrarack Road near Crumetown, Warren Township, St Joseph County  
Downstream: N23, SW1/4, Section 28, Township 37N, Range 1E, North Liberty Quadrangle, North Liberty Quadrangle

**Request Description:** A general request concerning the proposed residence.

**Base Flood Elevation:** 688.7 Feet (NGVD29) at the upstream limit of the request site;  
(BFE / 100 Year Frequency flood elevation) 688.9 Feet (NGVD29) at the downstream limit of the request site;  
Elevations are based on hydraulic modeling

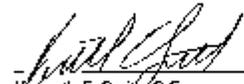
**Flood Protection Grade:** Two feet above the base flood elevation

**Floodplain Limits:** As delineated in yellow on the attached map, the floodway of the Geyser Ditch passes through a portion of the tract. The portion of the tract outside of the floodway and below the 100-year frequency flood elevation is called the floodway fringe area.

**Regulatory Assessment:** EC 14-28-1 prohibits the construction of residences and abodes in or on a floodway, and other types of projects proposed in the floodway require prior approval from the Department. Proposed projects in the flood fringe do not require approval from the Department.  
**All projects must comply with all applicable federal, state and local permit requirements.**

**Other Requirements:** You may have to obtain a permit from the U.S. Army Corps of Engineers under the Clean Water Act and/or the River and Harbors Act. Refer to the attachments for contact information.

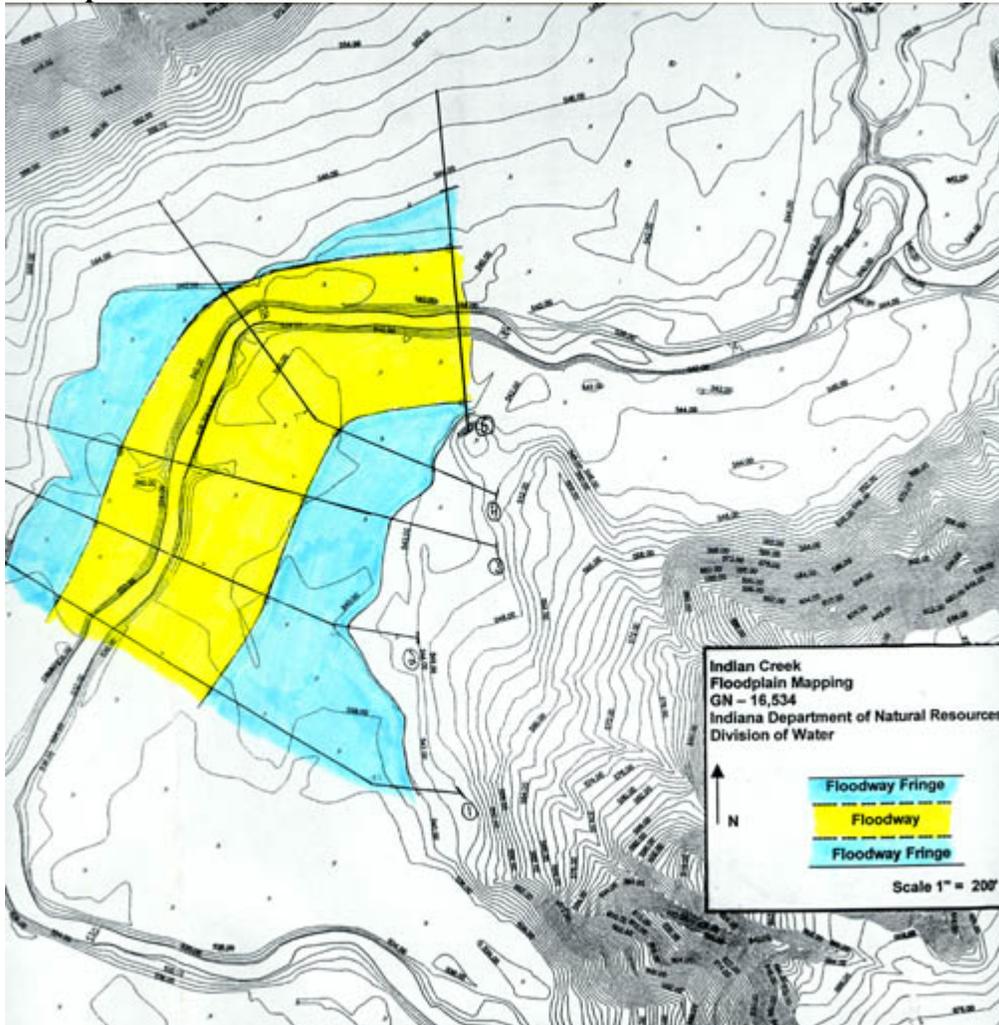
**Contact Staff:** Maanda J. Fultz, Hydraulic Engineer, Engineering Services North Basin.  
If you have any questions please contact the above staff member at (317) 232-4160 or 1-877-828-3755 (toll free). Thank you for this opportunity to be of assistance.

  
\_\_\_\_\_  
Kenneth E. Smith, P.E.  
Assistant Director  
Division of Water

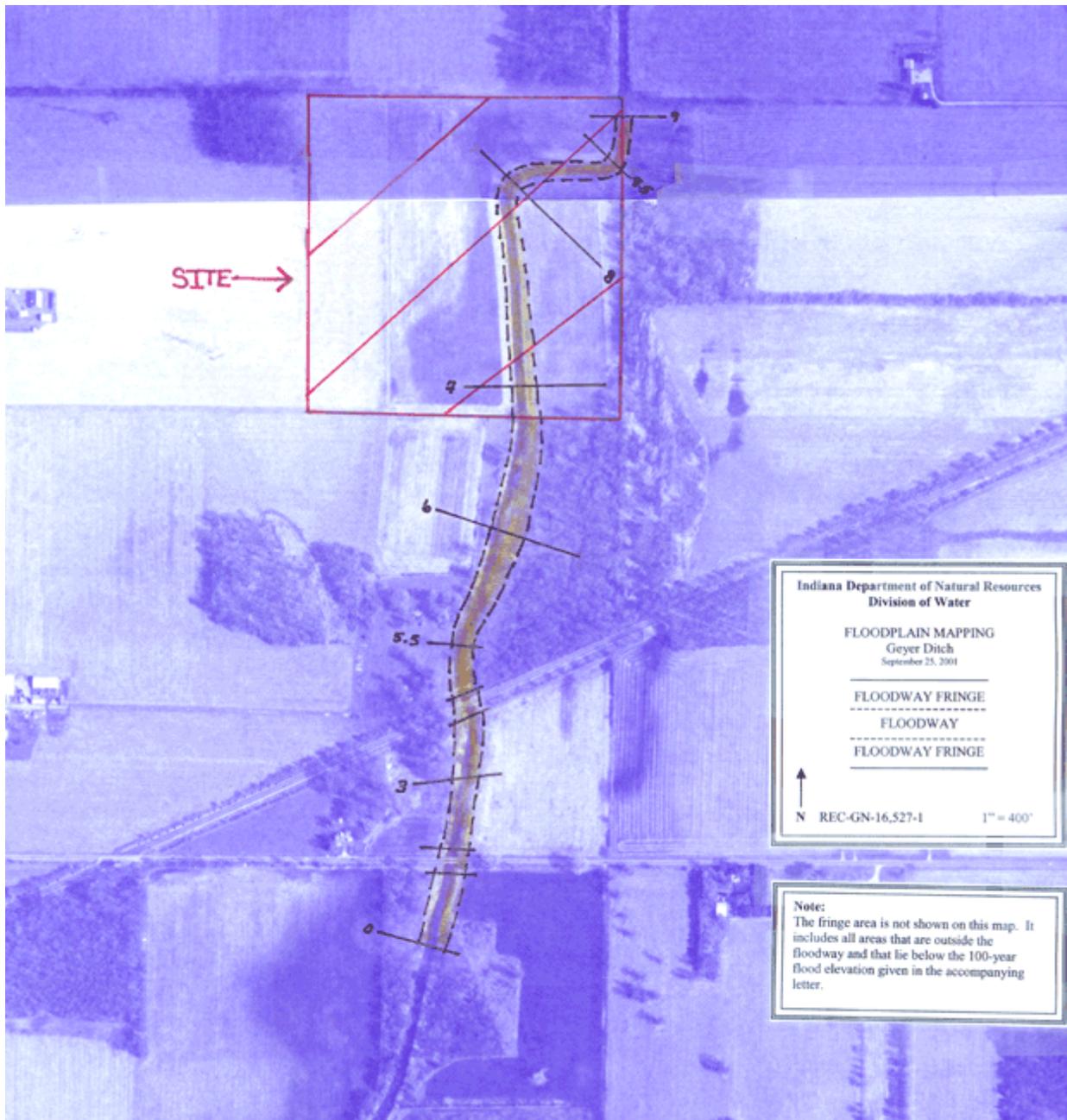
Date: October 2, 2001

Attachments: A - Floodplain Location Map  
B - General Information  
C - FIRM Map

**IDNR Floodplain Analysis and Regulatory Assessment (FARA) Letter Floodway Map Example 1**



**IDNR Floodplain Analysis and Regulatory Assessment (FARA) Letter Floodway Map Example 2**



**Sample DNR Floodway Permit**

STATE OF INDIANA  
DEPARTMENT OF NATURAL RESOURCES

CERTIFICATE OF APPROVAL  
CONSTRUCTION IN A FLOODWAY

**APPLICATION #:** FW-16,660

**STREAM :** Whitewater River

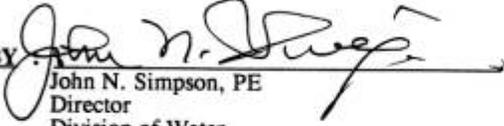
**APPLICANT :** Franklin County Board of  
Commissioners  
Courthouse  
Brookville, IN 47012

**AGENT :** Howard J. Barth & Associates, Inc.  
347 East Washington Street  
John Graff  
Greensburg, IN 47240

**AUTHORITY :** IC 14-28-1 with 310 IAC 6-1 and IC 14-29-1 with 310 IAC 2

**DESCRIPTION :** The existing 5 span reinforced concrete arch bridge will be replaced with a 5 span continuous prestressed concrete I-beam bridge with span lengths of 95', 32105', and 95'. The spill through abutments will have 2:1 side slopes armored with riprap over geotextile fabric. The abutments and piers will be skewed 15 degrees. The existing structure will be completely removed. The approach roads will be elevated a maximum of 4.5' above existing grade. An earthen embankment will be relocated approximately 100' landward of the existing embankment. A maximum cut of 5' tapering to 1' will be made on the north overbank for flow efficiency and a maximum fill of 19' tapering to 1' will be placed at the south end for an abutment. A temporary runaround is proposed within the right-of-way on the downstream (west) side of the structure. Franklin County Bridge No. 17. Details of the project are shown on plans and information received at the Division of Water on February 15, 1995, February 17, 1995, July 18, 1995 and July 20, 1995.

**LOCATION :** At the Laurel Road bridge over the stream, near Laurel, Laurel Township, Franklin County  
SW $\frac{1}{4}$ , SW $\frac{1}{4}$ , SW $\frac{1}{4}$ , Section 10, T 12N, R 12E, Metamora Quadrangle  
UTM Coordinates: Downstream = 4373450 North, 656275 East

**APPROVED BY:**   
John N. Simpson, PE  
Director  
Division of Water

**APPROVED ON:** September 1, 1995

Attachments: Notice Of Right To Administrative Review  
General Conditions  
Special Conditions  
Service List



## INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT

*We make Indiana a cleaner, healthier place to live*

*Evan Bayh*  
Governor  
*Kathy Prosser*  
Commissioner

100 North Senate Avenue  
P.O. Box 6015  
Indianapolis, Indiana 46206-6015  
Telephone 317-232-8603  
Environmental Helpline 1-800-451-6027

October 13, 1995

**VIA CERTIFIED MAIL** Z 339 822 685

Jon LaTurner, P.E.  
Section Head, Project Development  
Division of Water  
Indiana Department of Natural Resources  
402 West Washington Street, Room W264  
Indianapolis, Indiana 46204-2748

Dear Mr. LaTurner:

Re: Section 401 Water Quality Certification  
Indiana Department of Natural Resources  
Corps No. 95-171-015-0  
St. Joseph County

Office of Water Management staff have reviewed your correspondence dated September 12, 1995, requesting Section 401 Water Quality Certification for the removal of debris and an illegal causeway from the raceway around Kamm Island in the St. Joseph River. The material would be disposed of at an approved site and the project would proceed with minimal disturbance to existing trees.

Based on the available information, it is the judgment of this office that the proposed project will not cause a significant impact to water quality provided that conditions set forth by the State are incorporated into the project. Therefore, subject to the following conditions, the Office of Water Management hereby grants Section 401 Water Quality Certification:

1. Physical disturbance of banks, other soils, and existing vegetation, especially trees and aquatic vegetation, shall be limited to that which is absolutely necessary to achieve the purpose of the project.
2. The contractor performing the actual operations must comply with Section 311 of the Federal Clean Water Act and with 327 IAC 2-6 (formerly Indiana Stream Pollution Control Board Regulation 330 IAC 1-6-1) concerning spills of oil and hazardous materials.
3. The deposition of dredged or excavated materials and all earthwork operations shall be carried out in such a manner that soil erosion and sediment runoff to any nearby watercourse are controlled and minimized.

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**US Army Corps  
of Engineers**  
Louisville District

# Public Notice

Public Notice No.  
199500939

Date:  
10/16/95

Closing Date:  
11/09/95

Please address all comments and inquiries to:  
U.S. Army Corps of Engineers, Louisville District  
ATTN: Ms. Brenda Carter, CEORL-OP-FN  
P.O. Box 59  
Louisville, Kentucky 40201-0059

Phone: (502) 582-5607

This notice announces an application submitted for a Department of the Army (DA) Permit, subject to Section 404 of the Clean Water Act (CWA).

**APPLICANT:** Mr. William Jarvis  
Indiana Department of Transportation  
Operations Support Engineer  
Seymour District  
P.O. Box 550  
Seymour, Indiana 47274

**LOCATION:** State Road 135 and Bean Blossom Creek in Brown County,  
Indiana

**PURPOSE:** To remove a sand bar in order to maintain the proper  
size waterway opening under the structure, to correct  
the hydraulics of the stream at this location, and to  
prevent further erosion of the stream bank.

**DESCRIPTION OF WORK:** The applicant proposes to remove a sand bar, regrade the slope, and place riprap on both the north and south creek banks. The amount of sand bar material to be removed from the creek is about 213 cubic yards (cys). About 150 linear feet of stream bank on the north side, would be shaped and then stabilized with about 133 cys of riprap. Riprap already existing along the southwest side of the creek will be stored and re-used after the grading of this section of bank is completed. The work would be done with a gradall and dozer; the dredged material would be hauled off site by dump trucks.

**REVIEW PROCEDURES:** A DA Permit cannot be issued if any legally required Federal, State, or local authorization or certification is denied. A DA Permit, if otherwise warranted, will not be issued until a Water Quality Certification or waiver is on file at this office. The applicant is responsible for obtaining the certification from the Indiana Department of Environmental Management.

Copies of this notice are sent to the appropriate Federal and State Fish and Wildlife Services. Their views and comments are solicited in accordance with the Fish and Wildlife Coordination Act of 1956. Based on available information, the proposed activity will not destroy or endanger any Federally-listed threatened or endangered species or their critical habitats, as identified under the Endangered Species Act, and therefore, initiation of formal consultation procedures with the U.S. Fish and Wildlife Service is not planned at this time.

Any person may request, in writing, within the comment period specified in this notice, that a public hearing be held to consider this application. A request for a public hearing must state the specific interest which might be damaged by issuance of the DA Permit.

The National Register of Historic Places has been consulted, and it has been determined that there are no properties currently listed on the Register which would be directly affected by the proposed work. If we

**Signature and Date:**

A. The application form must be signed and dated by the applicant or an individual authorized to act on the applicant's behalf.

**Penalty:**

A. By signing the application, the signatory is attesting under the penalty of perjury that all information stipulated on, or submitted with, the application is true, accurate and complete. This includes the [public notice requirements](#) specified by the "Procedures Governing Certain Licenses Act", [IC 14-11-1](#).

**General Information**

Permit applications received by the DNR must contain plans for the proposed activity. In many cases, plans must also show the existing conditions of the area prior to the proposed project. The following example project plans illustrate the key items required for DNR review. Permit applications without the key information may substantially prolong the review process.

If you have questions about information required for your project, or if your project isn't represented here in the examples, contact our Technical Services Section at:

**Phone:** (317) 232-4160 or toll-free 1-877-928-3755.

**E-mail:** [water\\_inquiry@dnr.IN.gov](mailto:water_inquiry@dnr.IN.gov)

**Mail:**

Technical Services Section  
Division of Water  
Room W264  
402 West Washington Street  
Indianapolis, Indiana 46204

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**Items that should be on every plan**

- Streams / other water features
- Roads (including railroads)
- Existing Structures (buildings, parking lots, etc)
- Proposed structures
- Cross Sections if applicable
- Property Limits
- North Arrow
- Scale (numerical / graphical)
- Horizontal / Vertical Benchmarks
- Horizontal / Vertical Datums
- Contours (including date of photography, if applicable)
- Date
- Preparer's Name

Plans should be to scale (Standard scale found on engineering scale).

Use an aerial photograph of the project site for a base if nothing else is available (Photos are available online at [Terraserver.com](http://Terraserver.com) . Another set of aerial maps is maintained by and available at the [State land Office](#)).

## Example Plans by Project Type

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### **Bank Stabilization** - [View Example Plan](#)

Minimum Required Information for Bank Stabilization Plans:

- Total lineal feet of bank to be stabilized
  - Material used and size
  - Existing height and profile of the bank
  - Proposed height and profile of the bank and the thickness of the riprap layer
  - Show how far the riprap extends beyond the existing bank
  - Provide the finished slope
  - A north arrow and scale
  - Source of material for fill
  - Placement of excess material
  - Label cross-sections
  - Datum of elevation
- 

### **Boat Launch Ramp** - [View Example Plan](#)

Minimum Required Information for Boat Launch Ramps (on Streams)

- Length of ramp across lake frontage
  - Distance of ramp into lake from legal level
  - Materials and dimensions to be used for the ramp (slab and base materials)
- 

### **Bridges** - [View Example Plan](#)

Minimum Required Information for Bridge Projects:

Cross section of existing and proposed structures (can be overlaid)\*

Existing and proposed low structure elevation\*

Existing and proposed waterway area\*

100-year frequency flood elevation and source of elevation

Existing and proposed approach roads\*

Existing and proposed guard rails\*

Hydraulic data table

Disturbed area

Skew

Limits of construction

Limits of channel work

\* Non-replacement new bridges are only required to submit proposed plans

**If new bridge, approach roads raised, or waterway area reduced - model required**

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### **Channel Dredging for Streams** - [View Example Plan](#)

Minimum Required Information for Channel Dredging Plans (Streams):

- Existing and proposed cross-sections (can be overlaid)
- Disturbed Area

- Where the dredged material is to be stored, temporarily and permanently
- 

### **Culverts - [View Example Plan](#)**

Minimum Required Information for Culverts\*:

- If a new culvert - modeling
- Size, length, and number of culverts
- Type of bank stabilization
- Upstream / downstream invert elevations
- Skew
- Description of approaches / fill height if raised
- Elevation of the top of the road
- Method of construction

\*If a culvert replacement, plans will also require the following:

- Existing elevation of the roadway and approaches
  - Elevation of the bottom of the existing structure
  - Size of the existing water opening
- 

### **Fill - [View Example Plan](#)**

Minimum Required Information for Fill:

- Proposed fill area with dimensions
  - Typical cross section of fill perpendicular to flow with dimensions or to scale
  - Existing ground elevation
  - Proposed elevation
  - Area that will be obstructed in the floodway
- 

### **Outfall Structures - [View Example Plan](#)**

Minimum Required Information for Outfall Structures:

- End section details
  - Rip-rap area detail
  - Grading plan - showing location of outfall structure
  - Size of outlet
  - Datum of elevations
  - Elevation of invert
  - North arrow, scale, dimensions
- 

### **Residential Development - [View Example Plan](#)**

Minimum Required Information for Residential Developments:

- Floodway and flood fringe boundaries - source cited
- Proposed lots with house locations
- Outfall structures
- Utilities
- Trails and bridges
- Detention ponds
- Grading plan
- Elevations with datum
- Roads

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**Seawall Refacing - [View Example Plan](#)**

Minimum Required Information for Seawall Refacing Plans:

- Disturbed area
- Material type and length of reface
- Existing height and profile of seawall
- Proposed height and profile of seawall
- Type and volume of fill landward of seawall

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**Steel Piling of Vinyl Seawall (Lakes) - [View Example Plan](#)**

Minimum Required Information for Steel Piling or Vinyl Seawalls (Lakes):

- Length of seawall across lake frontage
- Seawall material specified
- Property lines referenced on sketch of proposed seawall

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**Steel Piling or Vinyl Seawall (Streams) - [View Example Plan](#)**

Minimum Required Information for Steel Piling or Vinyl Seawalls (Streams):

- Disturbed area
- Material type and length of seawall
- Existing height and profile of seawall
- Proposed height and profile of seawall
- Type and volume of fill landward of seawall

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**Utility Crossing - [View Example Plan](#)**

Minimum Required Information for Utility Crossings:

- Type of material being transported
- Size and type of material used for the line
- Method of construction
- Length of utility line in the floodway and running parallel to the stream
- Angle of the crossing relative to the stream flow
- Depth of cover under the stream
- Depth of cover in the bank
- Existing and proposed grade elevations
- If applicable, method used to compensate for buoyancy
- Clearing limits
- Does it qualify for an exemption?