



# Public Notice

**Applicant:**

Ohio Department of  
Transportation Central  
Office

**Date:**

Published: April 16, 2004  
Expires: May 15, 2004

**U.S. Army Corps  
of Engineers**

**In Reply Refer To:**

Buffalo District **CELRB-TD-R RE:** 95-302-5(5) **Section:** OH 404

**Application for Permit under Authority of  
Section 404 of the Clean Water Act (33 U.S.C. 1344).**

The Ohio Department of Transportation, 1980 West Broad Street, Columbus, Ohio 43223, has applied for Department of the Army authorization to perform work in federal jurisdictional wetlands and streams in association with the improvement of a 26 mile section of US 30 (**HAN/WYA-30-3.00/0.00 PIDs 12420, 12421, 12422**). The project is located near the cities of Findlay and Upper Sandusky, Hancock and Wyandot Counties, Ohio.

Department of the Army authorization is required to fill a total of approximately 3.3 acres of federal jurisdictional wetland and impact approximately 9,705 linear feet of stream, including Woodruff Ditch, Hydraulic Ditch, Ripley Run, and associated streams and tributaries to the Blanchard and Sandusky Rivers.

The applicant is seeking Department of the Army authorization for the following preferred alternative: the construction of a four lane, limited access, divided highway on a new alignment. This proposed US Route 30 improvement project begins at existing SR 235 in Hancock County and extends approximately 26 miles east to the Upper Sandusky bypass in Wyandot County. A total of 26 streams (9,705 linear feet) and 17 federal jurisdictional wetlands (3.3 acres), located within the Blanchard and Sandusky River watersheds, will be impacted by the proposed project. Of the 26 streams, 18 involve culvert placements, 4 involve new bridge construction and associated temporary stream crossings, 3 involve stream re-channelization (including one of the bridge sites), and 2 involve channel fill. The 17 wetlands proposed to be impacted include direct wetland fill within project construction limits and indirect wetland loss (loss of adjacent wetland remnants).

The applicant has proposed to mitigate for the wetland and stream fills with the following:

- 1) Construction of a meandering two-stage stream channel for a total length of 1,519 linear feet at Woodruff Ditch including the following: construction of gradual sloping "benches" (10:1 to 24:1 slopes) along the channel to provide bankfull widths, construction of riffle habitat at several locations along the channel, use of erosion protection

along outer banks at meander locations for channel stability, and the planting of native trees, shrubs, and seeding along the constructed channel banks and benches.

2) Use of bankfull culverts, oversized depressed culverts that allow for a natural stream bottom to form, at Hydraulic Ditch (239 linear feet) and Ripley Run (334 linear feet).

3) The restoration of a portion of the Sandusky River at the site of the recent removal of the St. John's Dam.

4) The on-site creation and preservation of wetlands as well as preservation of forested upland buffer surrounding these wetlands (see sheet 41 of 41). The proposed mitigation site will create/preserve more wetland acreage than is necessary to appropriately mitigate the fills associated with the proposed project.

The proposed improvement of the 26 mile section of US 30 represents one section in the overall planned statewide upgrade of US 30 to a 4-lane, limited access facility extending west to east across northern Ohio. The stated purpose and need for this project is based on the following factors: a) capacity, level-of-service, and safety deficiencies identified for the existing 2-lane US 30, b) long-term transportation goals to complete this link of the statewide US 30 upgrade, and c) projected regional and statewide economic benefit of the improvement.

Location and details of the above described work are shown on the attached maps and drawings.

Questions pertaining to the work described in this notice should be directed to Claudia R. Steele, who can be contacted by calling (716) 879-4294, or by e-mail at: Claudia.R.Steele@usace.army.mil

The following authorization(s) may be required for this project:

Water Quality Certification (or waiver thereof) from the Ohio Environmental Protection Agency.

Based on preliminary findings, there do not appear to be any properties listed in, or eligible for listing in, the National Register of Historic Places within the permit area as shown on Sheets 1-3 of 41. This notice constitutes initiation of consultation with the Ohio Historic Preservation Office (SHPO) per Section 106 of the National Historic Preservation Act. All currently available historic resource information pertaining to this proposed project, if any, has been provided to the SHPO. Additional information concerning historic properties should be submitted to the Corps before the end of the comment period of this notice. The Corps will forward that information to the SHPO for their review.

In addition, available evidence indicates that the proposed work will not affect a species proposed or designated by the U.S. Department of the Interior as threatened or endangered, nor will it affect the critical habitat of any such species.

This notice is promulgated in accordance with Title 33, Code of Federal Regulations, parts 320-330. Any interested party desiring to comment on the work described herein may do so by submitting their comments, in writing, so that they are received no later than 4:30 pm on the expiration date of this notice.

Comments should be sent to the U. S. Army Corps of Engineers, 1776 Niagara Street, Buffalo, New York 14207, and should be marked to the attention of Claudia R. Steele, or by e-mail at: Claudia.R.Steele@usace.army.mil. A lack of

response will be interpreted as meaning that there is no objection to the work as proposed.

Comments submitted in response to this notice will be fully considered during the public interest review for this permit application. All written comments will be made a part of the administrative record which is available to the public under the Freedom of Information Act. The Administrative Record, or portions thereof may also be posted on a Corps of Engineers internet web site. Due to resource limitations, this office will normally not acknowledge the receipt of comments or respond to individual letters of comment.

Any individual may request a public hearing by submitting their written request, stating the specific reasons for holding a hearing, in the same manner and time period as other comments.

Public hearings for the purposes of the Corps permit program will be held when the District Commander determines he can obtain additional information, not available in written comments, that will aid him in the decision making process for this application. A Corps hearing is not a source of information for the general public, nor a forum for the resolution of issues or conflicting points of view (witnesses are not sworn and cross examination is prohibited). Hearings will not be held to obtain information on issues unrelated to the work requiring a permit, such as property ownership, neighbor disputes, or the behavior or actions of the public or applicant on upland property not regulated by the Department of the Army. Information obtained from a public hearing is given no greater weight than that obtained from written comments. Therefore, you should not fail to make timely written comments because a hearing might be held.

The decision to approve or deny this permit request will be based on an evaluation of the probable impact, including cumulative impacts of the proposed activity on the public interest. That decision will reflect the national concern for both protection and utilization of important resources. The benefits which reasonably may be expected to accrue from the proposal must be balanced against its reasonably foreseeable detriments. All factors which may be relevant to the proposal will be considered including the cumulative effects thereof; among these are conservation, economics, aesthetics, general environmental concerns, wetlands, historic properties, fish and wildlife values, flood hazards, flood plain values, land use, navigation, shoreline erosion and accretion, recreation, water supply and conservation, water quality, energy needs, safety, food and fiber production, mineral needs, considerations of property ownership, and in general, the needs and welfare of the people.

The Corps of Engineers is soliciting comments from the public; Federal, state and local agencies and officials; Indian Tribes; and other interested parties in order to consider and evaluate the impacts of this proposed activity. Any comments received will be considered by the Corps of Engineers to determine whether to issue, modify, condition or deny a permit for this proposal. To make this decision, comments are used to assess impacts on endangered species, historic properties, water quality, general environmental effects, and the other public interest factors listed above. Comments are used in the preparation of an Environmental Assessment and/or an Environmental Impact Statement pursuant to the National Environmental Policy Act. Comments are also used to determine the need for a public hearing and to determine the overall public interest of the proposed activity.

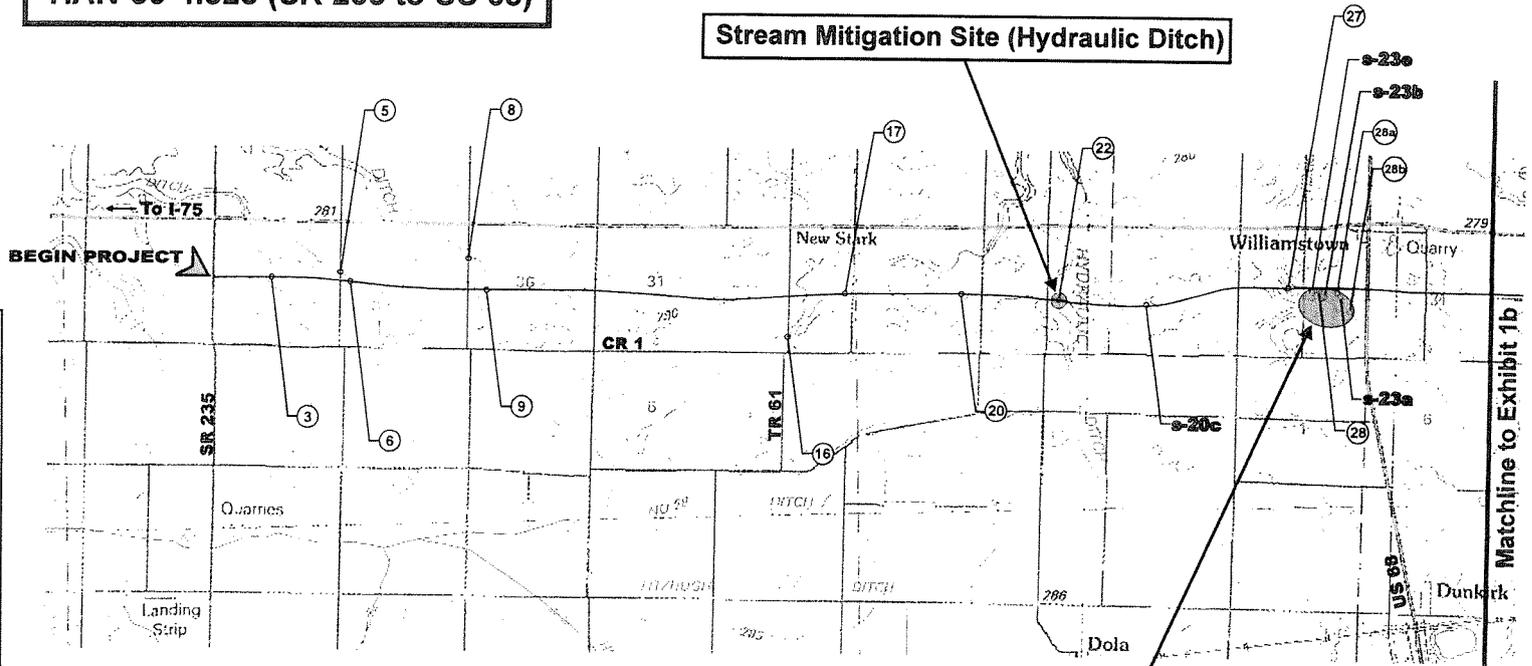
# SIGNED

Philip D. Frapwell  
Acting Chief, Regulatory Branch

NOTICE TO POSTMASTER: It is requested that this notice be posted continuously and conspicuously for 30 days from the date of issuance.



**HAN-30-4.828 (SR 235 to US 68)**



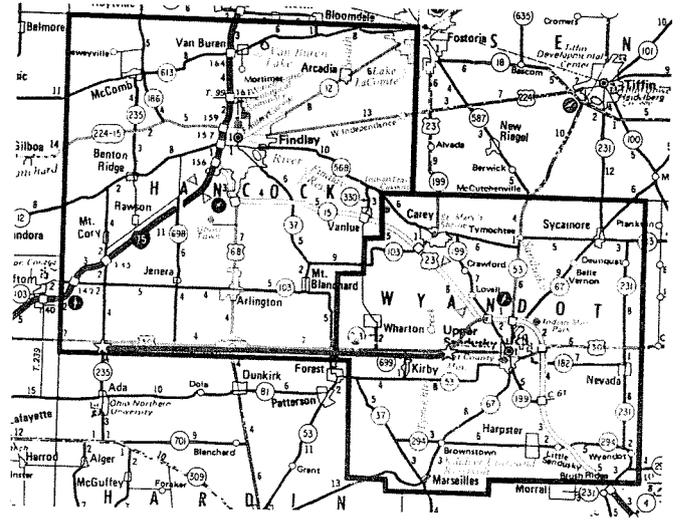
Matchline to Exhibit 1b

OHIO DEPARTMENT OF TRANSPORTATION  
 D/A Processing No. 95-302-5(5)  
 Hancock County, Ohio Quad: ADA  
 Sheet 1 of 41

US 30 Improvement, SR 235 to Upper Sandusky Bypass,  
 Hancock & Wyandot Counties, Ohio  
 HAN/MYA-30-3.00/0.00; PID 12420, 12421, 12422



**Stream Mitigation Site (Woodruff Ditch)**



- = Approximate Centerline Location (sideroad overpasses and interchange ramps not shown)
- = Wetlands Impacted by Preferred Alternative
- = OHW Surface Water Features Impacted by Preferred Alternative
- = Proposed Stream or Wetland Mitigation Area

Scale: 1"=8,000' (1:96,000)  
 Base: 7.5' USGS Quads

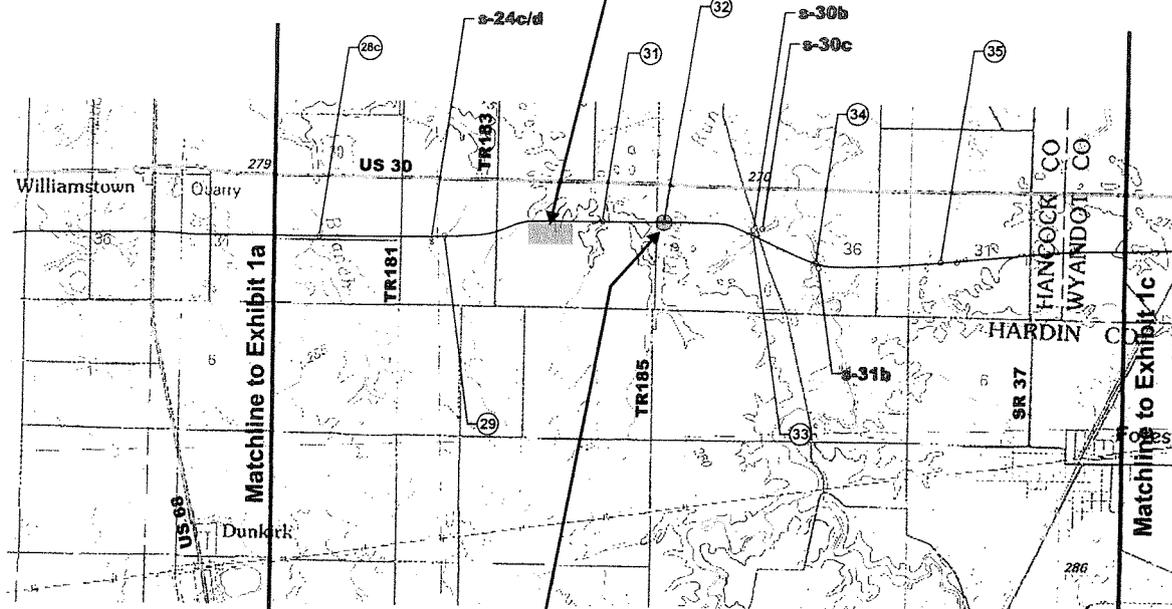
North

U.S. Army Corps of  
 Engineers 404 Permit  
 and OESA Section 401  
 Water Quality  
 Certification  
 Application  
 March 2002  
 Exhibit

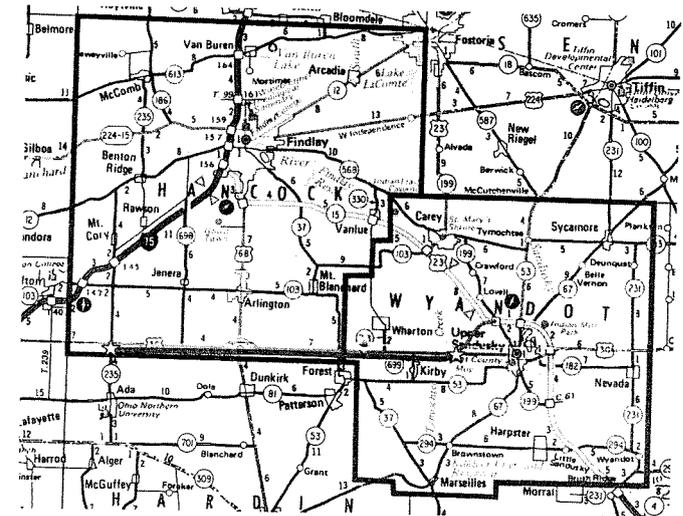


**HAN-30-18.935 (US 68 to SR 37)**

**Wetland Mitigation Site**



**Stream Mitigation Site (Ripley Run)**



OHIO DEPARTMENT OF TRANSPORTATION  
 D/A Processing No. 95-302-5(S)  
 Hancock County, Ohio Quad: ADA  
 Sheet 2 of 41

US 30 Improvement, SR 235 to Upper Sandusky Bypass,  
 Hancock & Wyandot Counties, Ohio  
 HAN/WYA-30-3.00/0.00; PID 12420, 12421, 12422

- = Approximate Centerline Location (sideroad overpasses and interchange ramps not shown)
- = Wetlands Impacted by Preferred Alternative
- ⊙ = OHW Surface Water Features Impacted by Preferred Alternative
- /■ = Proposed Stream or Wetland Mitigation Area

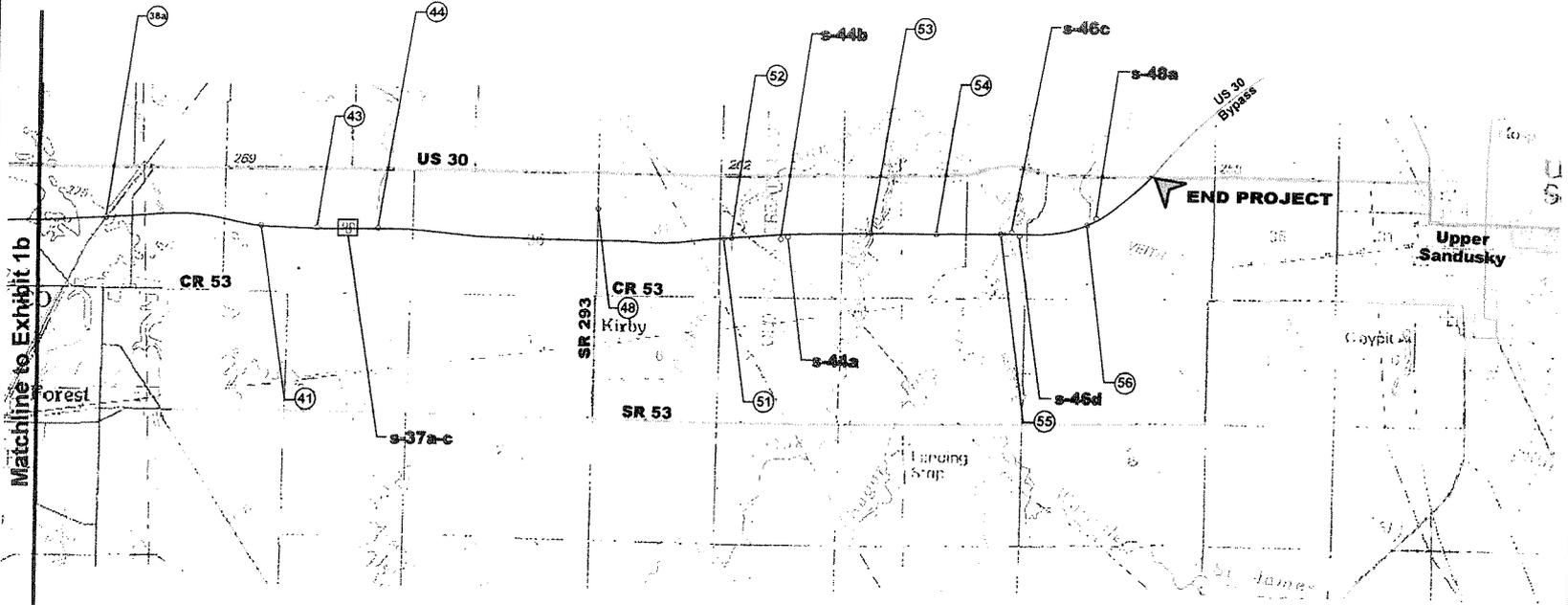
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 Base: 7.5' USGS Quads

North

U.S. Army Corps of Engineers 404 Permit and OPA Section 401 Water Quality Certification Application  
 March 2002  
 Exhibit



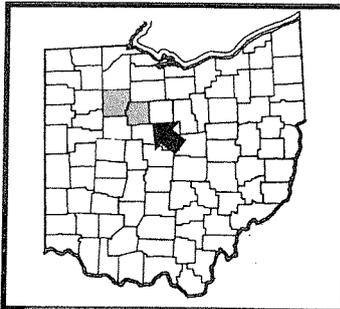
# HAN/WYA-30-30.560 (SR 37 to Upper Sandusky Bypass)



Matching to Exhibit 1b

END PROJECT

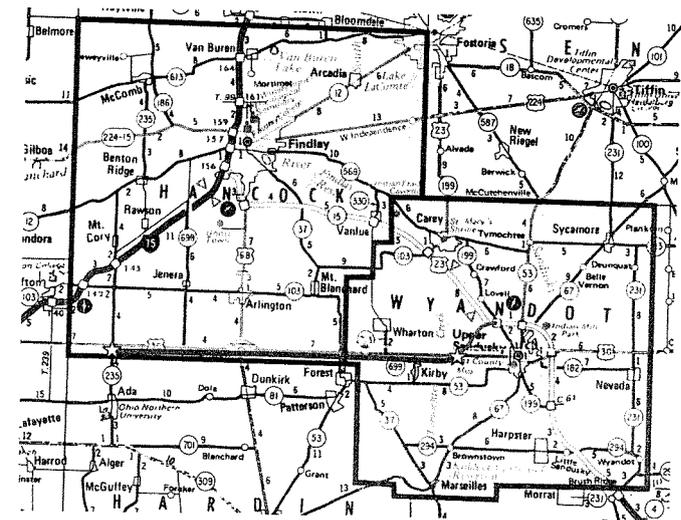
Upper Sandusky



- = Approximate Centerline Location (sideroad overpasses and interchange ramps not shown)
- = Wetlands Impacted by Preferred Alternative
- ⊙ = OHSW Surface Water Features Impacted by Preferred Alternative
- ⊙/□ = Proposed Stream or Wetland Mitigation Area

Scale: 1"=8,000' (1:96,000)  
 Base: 7.5' USGS Quads

North



US  
 PRO  
 Sheet 3 of 41

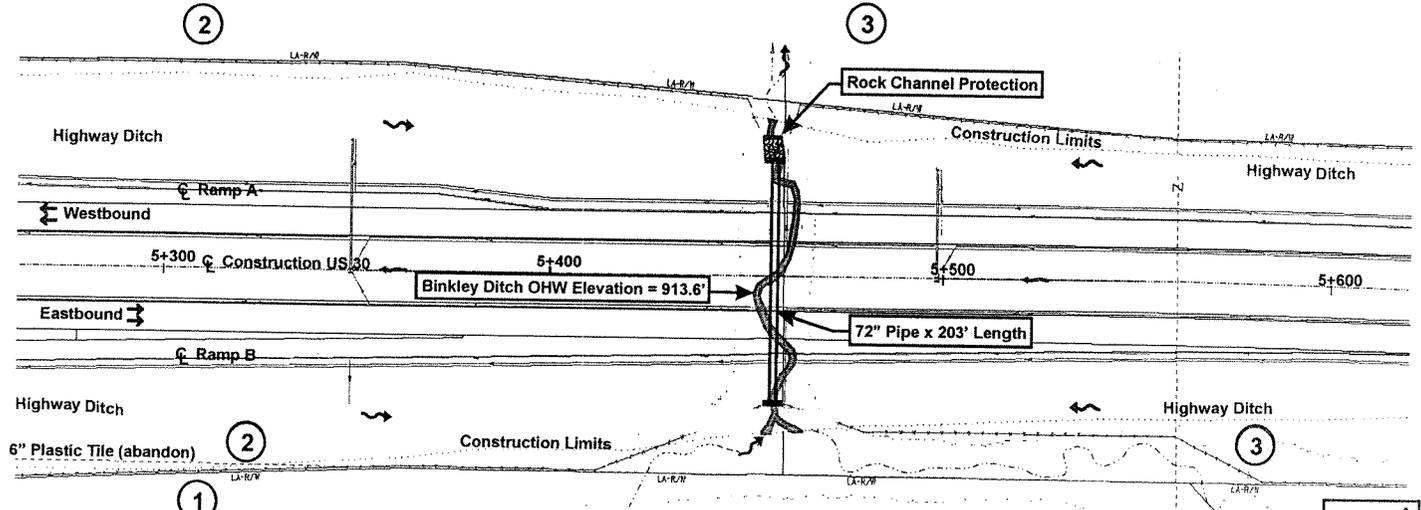
OHIO DEPARTMENT OF TRANSPORTATION  
 D/A Processing No. 95-302-5(5)  
 Hancock County, Ohio Quad: ADA

Hancock & Wyandot Counties, Ohio  
 HAN/WYA-30-30.00/0.00; PID 12420, 12421, 12422

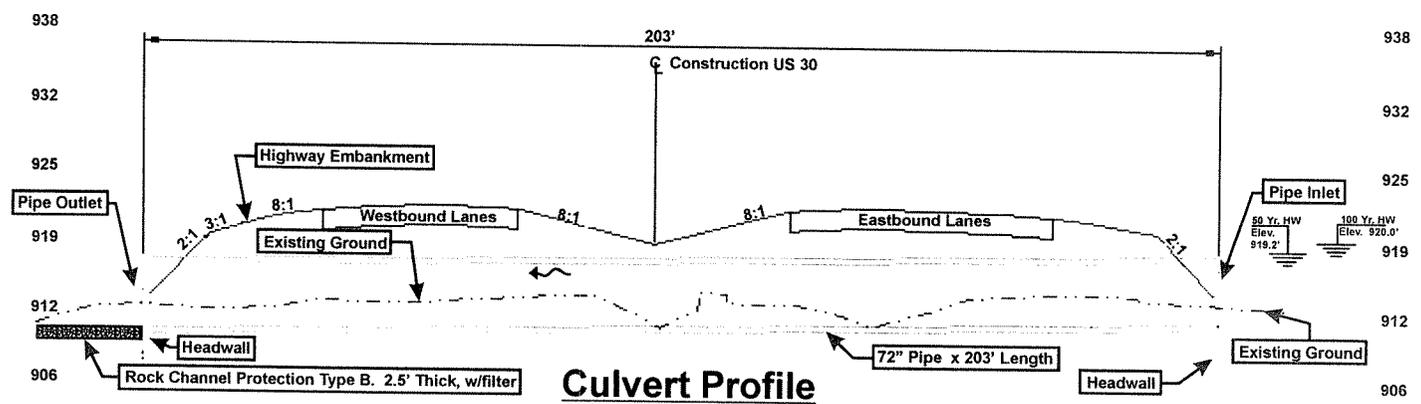
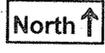
U.S. Army Corps of Engineers 404 Permit and OSPA Section 401 Water Quality Certification Application  
 March 2002  
 Exhibit

**Channel Disturbance (Below OHW):**  
 Length of Channel Disturbed: 307 lineal feet  
 Excavation Below OHW: 132 cubic yards  
 Fill Below OHW: 106 cubic yards  
 Standard Roadfill: 90 cubic yards  
 Rock Channel Protection: 16 cubic yards

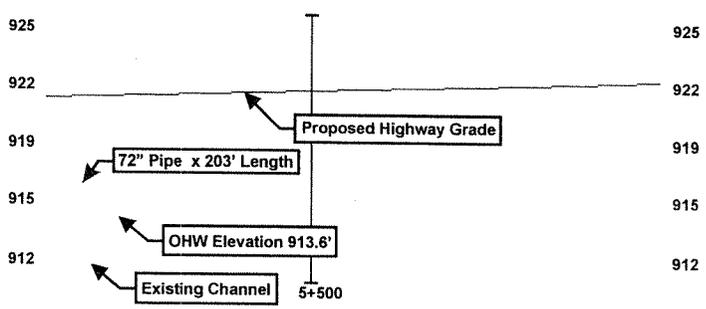
 = Approximate Disturbance due to Excavation and/or Fill Below OHW  
 = Approximate Disturbance due to Rock Channel Protection Below OHW



**Plan**



**Culvert Profile**



**Highway Profile  
 (with existing channel section)**

Approximate Plan Scale: 1" = 165'  
 Approximate Culvert Profile Scale: 1" = 35'  
 Approximate Highway Profile Horizontal Scale: 1" = 150'

**Property Owners:**  
 ① Vernon A. Wolke et al.  
 ② Glenn R. and Evelyn M. Farmer  
 ③ Ralph W. and Daniel A. Keller



**Exhibit 2  
 Site Plan for Proposed Activity  
 Site # 3 Binkley Ditch**

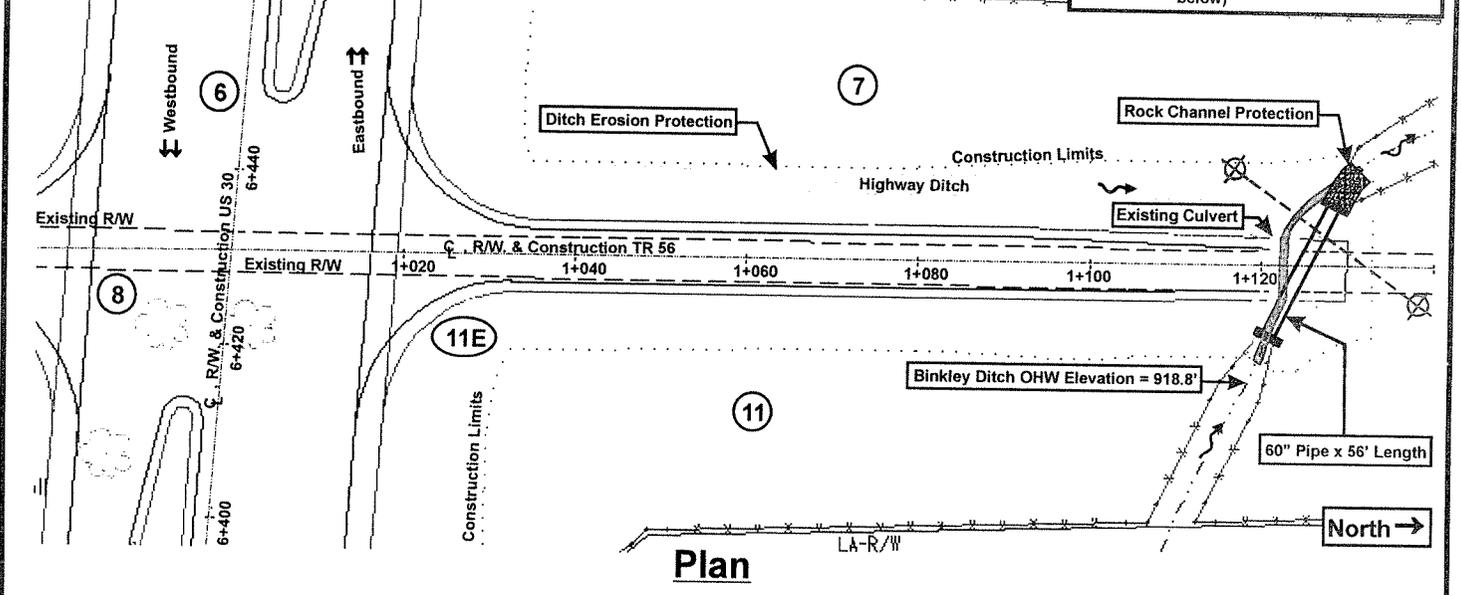
US 30 Improvement, SR 235 to Upper Sa  
 Hancock & Wyandot Counties,  
 HAN/WYA-30-3.00/0.00; PID 12420, 1.

U.S. Army Corps of Engineers 404 Permit and OEPA Section 401 Water Quality Certification Application

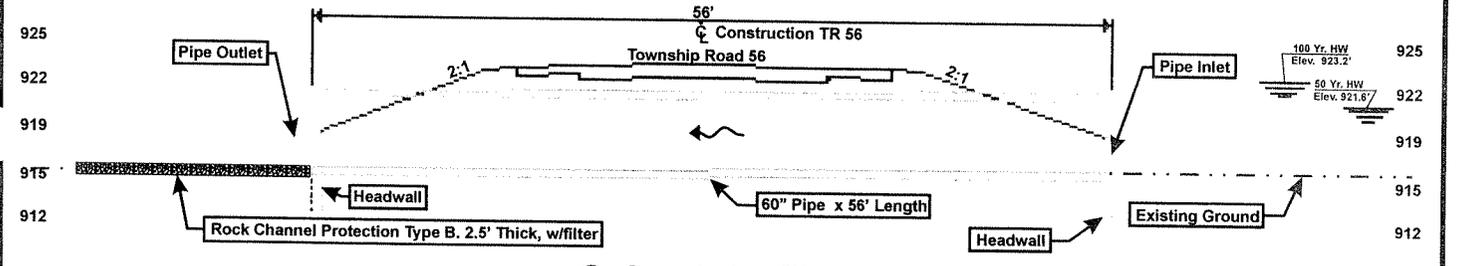
OHIO DEPARTMENT OF TRANSPORTATION  
 D/A Processing No. 95-302-5(5)  
 Hancock County, Ohio Quad: ADA  
 Sheet 4 of 41

**Channel Disturbance (Below OHW):**  
 Length of Channel Disturbed: 88 lineal feet  
 Excavation Below OHW: 19 cubic yards  
 Fill Below OHW: 43 cubic yards  
 Standard Roadfill: 33 cubic yards  
 Rock Channel Protection: 10 cubic yards

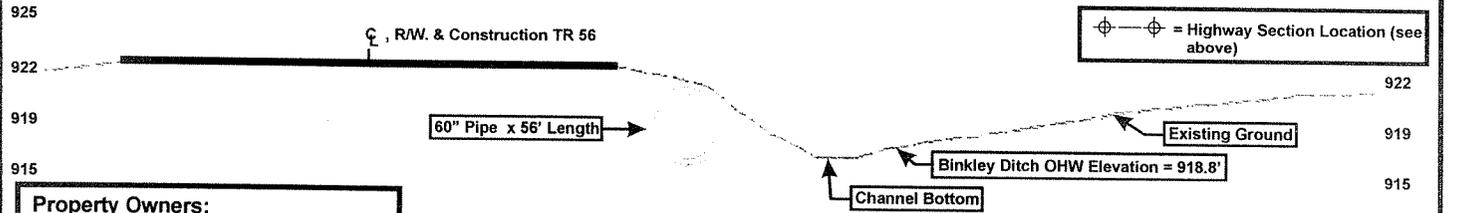
= Approximate Disturbance due to Excavation and/or Fill Below OHW  
 = Approximate Disturbance due to Rock Channel Protection Below OHW  
 = Highway Section Location (see below)



**Plan**



**Culvert Profile**



**Highway Section  
(at TR 56 Sta. 1+125)**

Approximate Plan Scale: 1" = 75'  
 Approximate Profile Scale: 1" = 15'  
 Approximate Cross Section Scale: 1" = 12'

**Property Owners:**  
 (6) Daniel A. Keller  
 (7) Donald J. and Edith D. Meyer  
 (8) Mark E. and Cathleen J. Daft  
 (11) & (11E) Carl D. and Mary R. Wagner



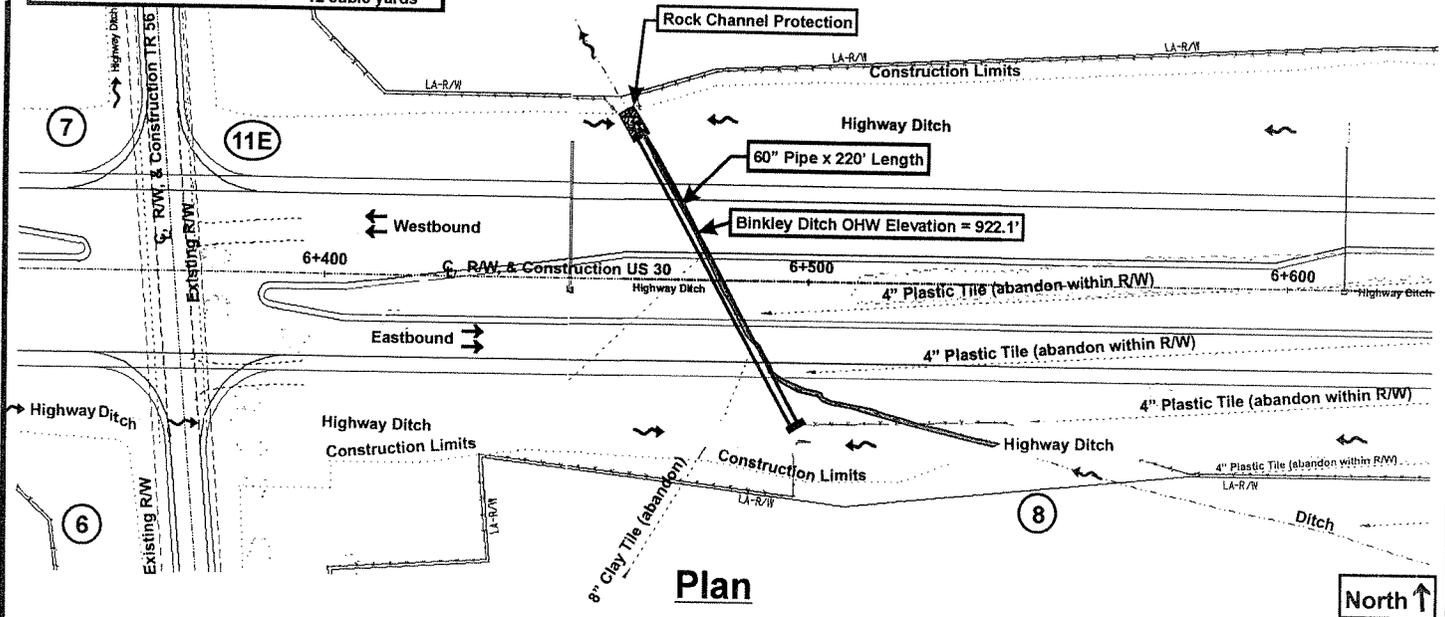
**Exhibit 3  
 Site Plan for Proposed Activity  
 Site # 5 Binkley Ditch**

US 30 Improvement, SR 235 to Upper Sa  
 Hancock & Wyandot Counties  
 HAN/WYA-30-3.00/0.00; PID 12420, 1

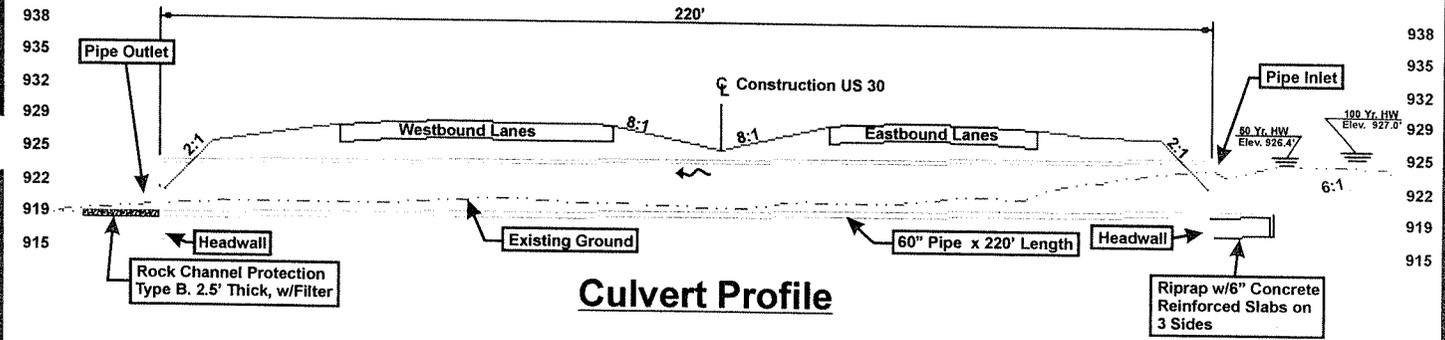
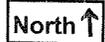
U.S. Army Corps of Engineers 404 Permit and OEPA Section 401 Water Quality Certification Application

**Channel Disturbance (Below OHW):**  
 Length of Channel Disturbed: 361 lineal feet  
 Excavation Below OHW: 53 cubic yards  
 Fill Below OHW: 116 cubic yards  
 Standard Roadfill: 104 cubic yards  
 Rock Channel Protection: 12 cubic yards

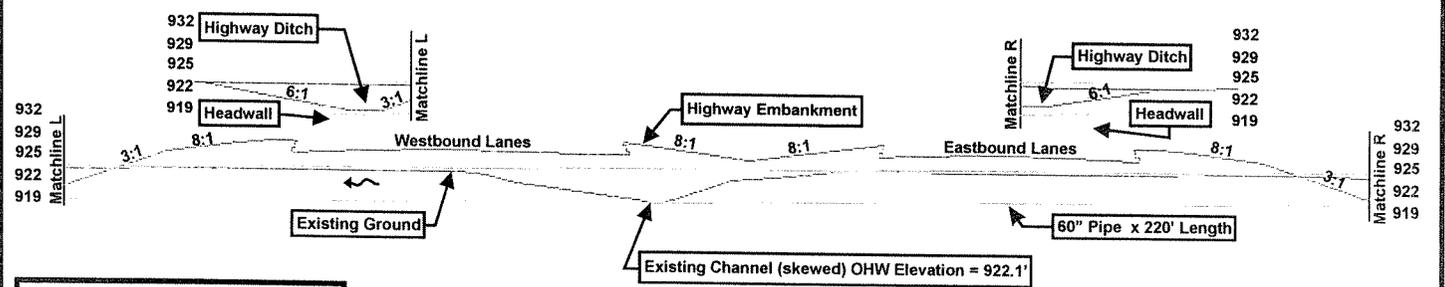
 = Approximate Disturbance due to Excavation and/or Fill Below OHW  
 = Approximate Disturbance due to Rock Channel Protection Below OHW



**Plan**



**Culvert Profile**



**Highway Section at Sta. 6+480**

Approximate Plan Scale: 1" = 130'  
 Approximate Profile Scale: 1" = 40'  
 Approximate Cross Section Scale: 1" = 30'

**Property Owners:**  
 (6) Daniel A. Keller  
 (7) Donald J. and Edith D. Meyer  
 (8) Mark E. And Kathleen J. Daft  
 (11) & (11E) Carl D. and Mary R. Wagner



**Exhibit 4  
 Site Plan for Proposed Activity  
 Site # 6 Binkley Ditch**

US 30 Improvement, SR 235 to Upper Sa  
 Hancock & Wyandot Counties  
 HAN/WYA-30-3.00/0.00; PID 12420, 1

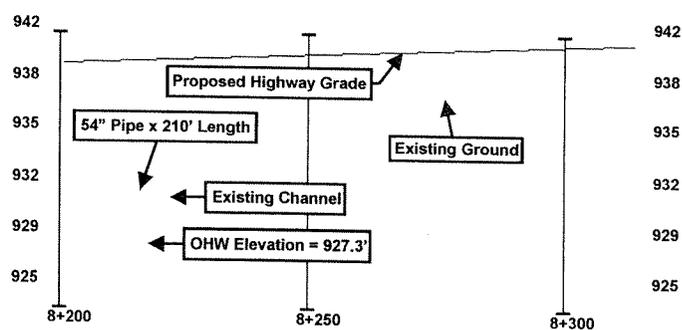
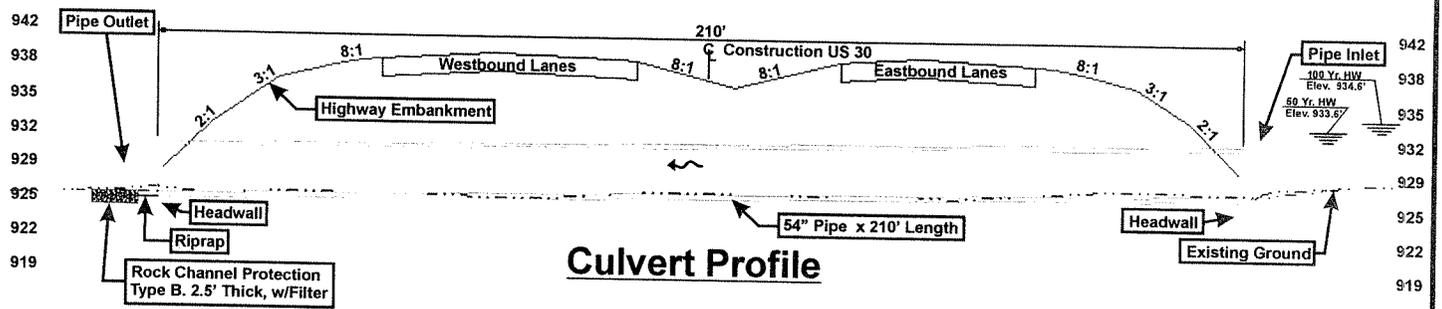
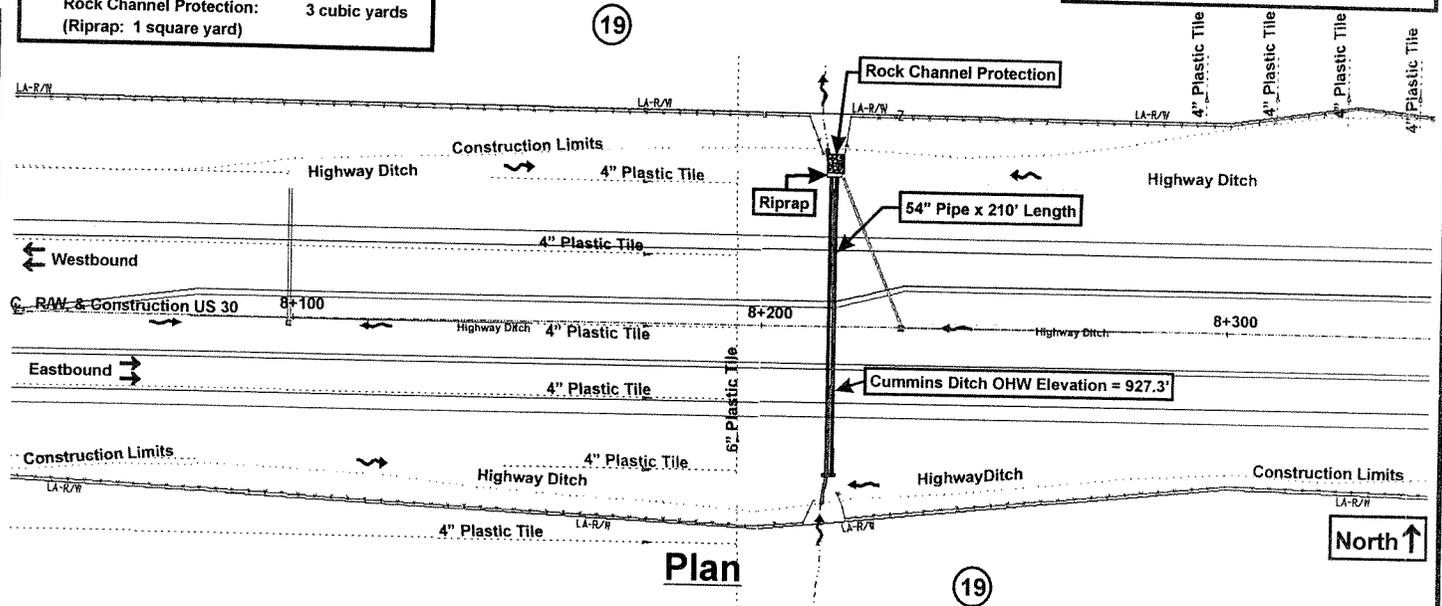
U.S. Army Corps of Engineers 404 Permit and OEPA Section 401 Water Quality Certification Application

OHIO DEPARTMENT OF TRANSPORTATION  
 D/A Processing No. 95-302-5(5)  
 Hancock County, Ohio Quad: ADA  
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**Channel Disturbance (Below OHW):**

Length of Channel Disturbed: 247 lineal feet  
 Excavation Below OHW: 10 cubic yards  
 Fill Below OHW: 30 cubic yards  
 Standard Roadfill: 27 cubic yards  
 Rock Channel Protection: 3 cubic yards  
 (Riprap: 1 square yard)

= Approximate Disturbance due to Excavation and/or Fill Below OHW  
 = Approximate Disturbance due to Rock Channel Protection Below OHW



**Property Owners:**  
 (19) J. Robert Daft and Edith M. Daft, Trustees of the J. Robert Daft and Edith M. Daft Family Trust

Approximate Plan Scale: 1" = 135'  
 Approximate Culvert Profile Scale: 1" = 40'  
 Approximate Highway Profile Scale: 1" = 120'



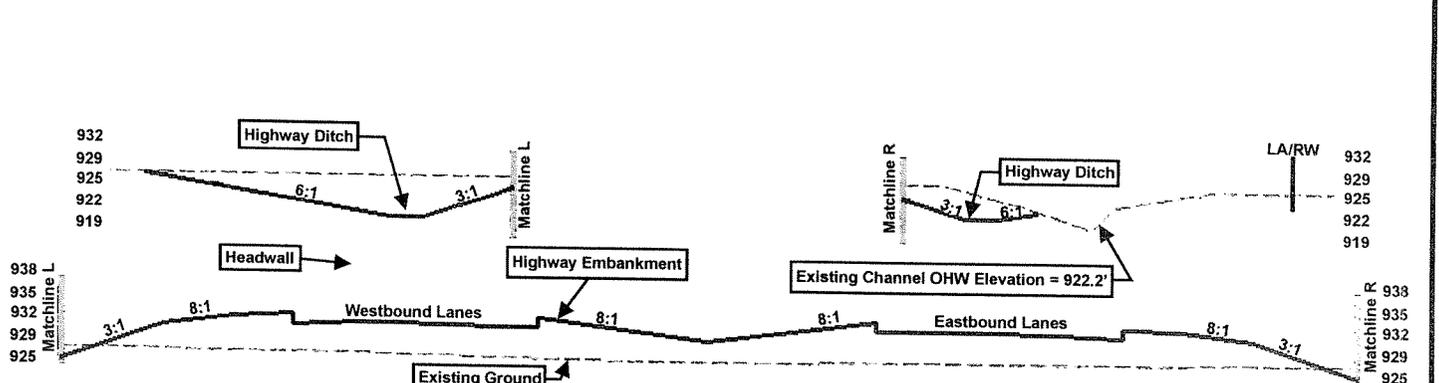
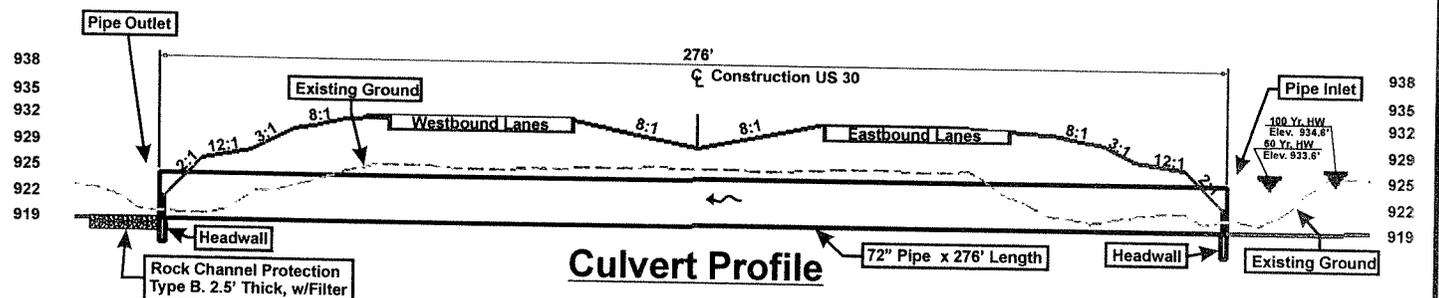
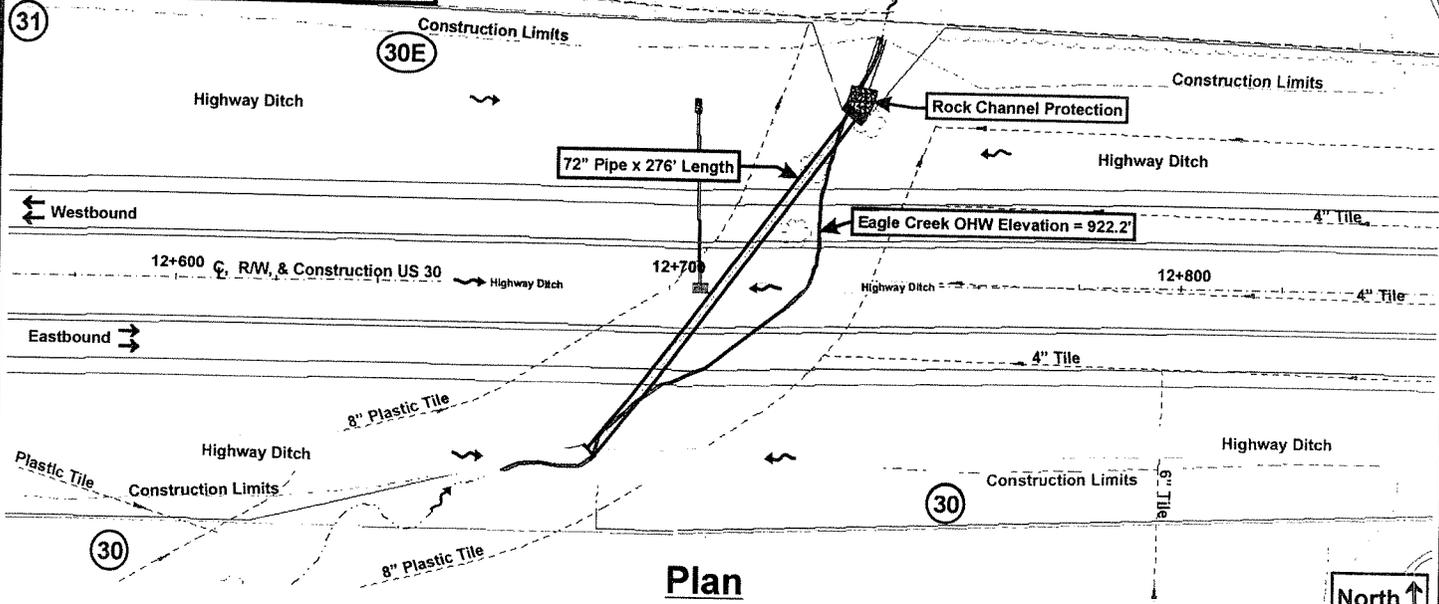
**Exhibit 5  
 Site Plan for Proposed Activity  
 Site # 9 Cummins Ditch**

**U.S. Army Corps of Engineers 404 Permit and OEPA Section 401 Water Quality Certification Application**

US 30 Improvement, SR 235 to Upper Sa Hancock & Wyandot Counties HAN/WYA-30-3.00/0.00; PID 12420, 1

**Channel Disturbance (Below OHW):**  
 Length of Channel Disturbed: 412 lineal feet  
 Excavation Below OHW: 39 cubic yards  
 Fill Below OHW: 114 cubic yards  
 Standard Roadfill: 99 cubic yards  
 Rock Channel Protection: 15 cubic yards

 = Approximate Disturbance due to Excavation and/or Fill Below OHW  
 = Approximate Disturbance due to Rock Channel Protection Below OHW



**Property Owners:**  
 (30) & (30E) James E. and Susan K. Smith  
 (31) Janice Rausch  
 (31A) George R. and Deleana J. Downing

Approximate Plan Scale: 1" = 125'  
 Approximate Profile Scale: 1" = 50'  
 Approximate Cross Section Scale: 1" = 30'

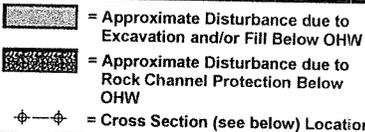


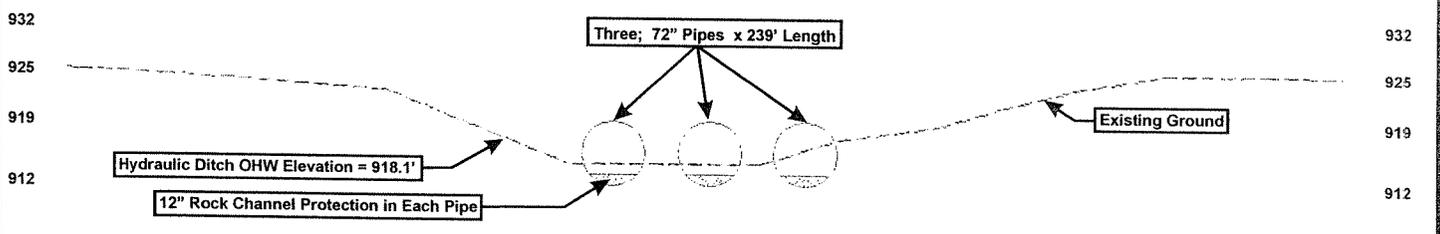
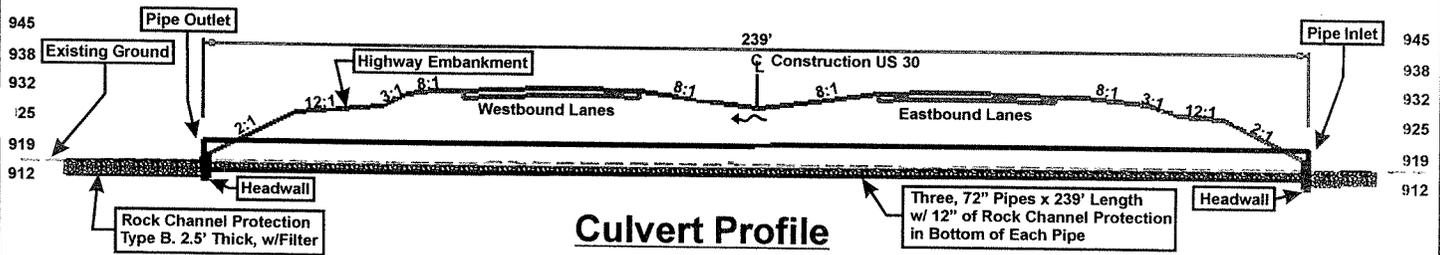
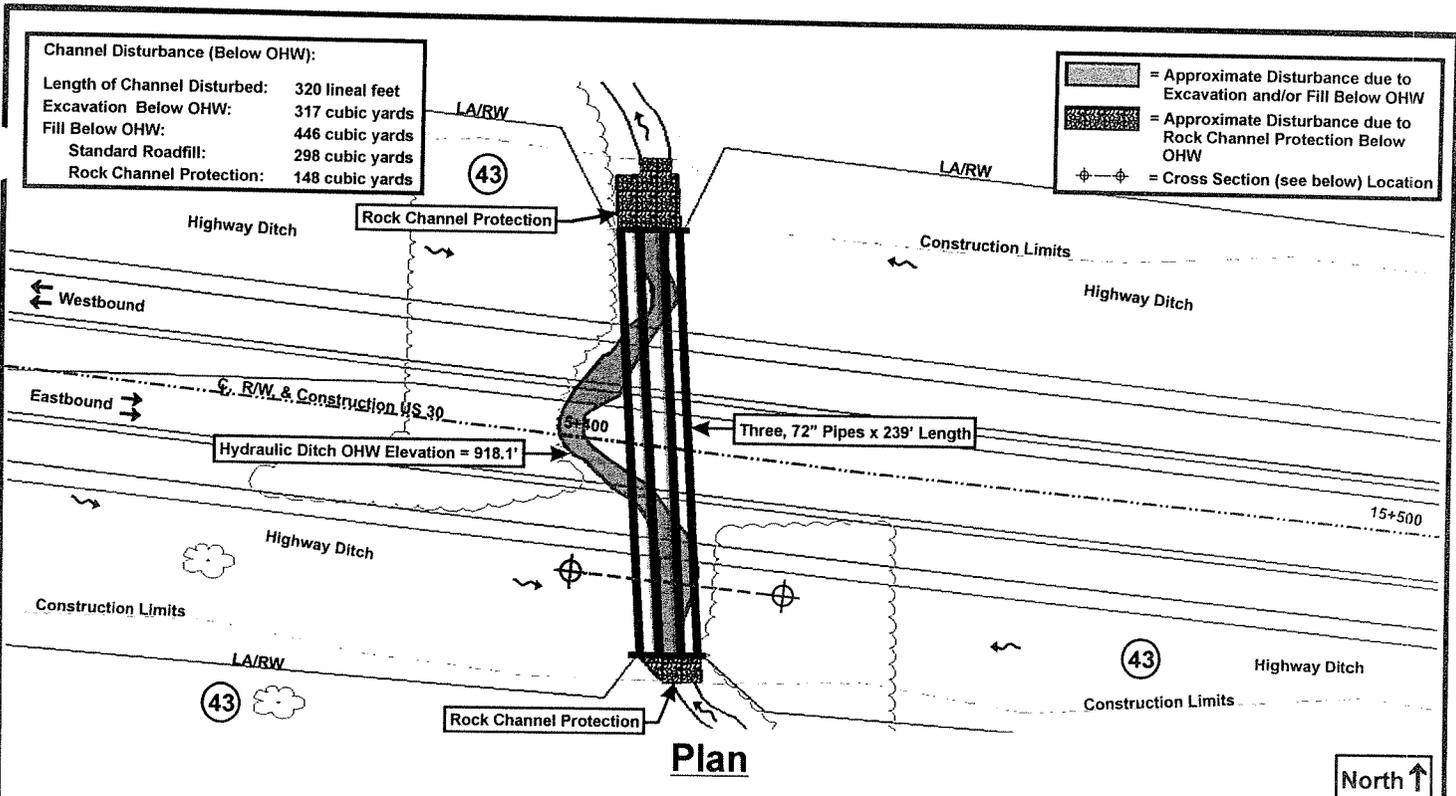
**Exhibit 6  
 Site Plan for Proposed Activity  
 Site # 17 Eagle Creek**

**U.S. Army Corps of Engineers 404 Permit and OEPA Section 401 Water Quality Certification**

US 30 Improvement, SR 235 to Upper Sa  
 Hancock & Wyandot Counties  
 HAN/WYA-30-3.00/0.00; PID 12420, 1

**Channel Disturbance (Below OHW):**  
 Length of Channel Disturbed: 320 lineal feet  
 Excavation Below OHW: 317 cubic yards  
 Fill Below OHW: 446 cubic yards  
 Standard Roadfill: 298 cubic yards  
 Rock Channel Protection: 148 cubic yards


  
 = Approximate Disturbance due to Excavation and/or Fill Below OHW  
 = Approximate Disturbance due to Rock Channel Protection Below OHW  
 ⊕ ⊕ = Cross Section (see below) Location



**Property Owners:**  
 (43) Claude H. Neiswander Trust Agreement  
 (Bank One Ohio Trust Co., Trustee)

Approximate Plan Scale: 1" = 75'  
 Approximate Culvert Profile Scale: 1" = 40'  
 Approximate Cross Section: 1" = 20'



**Exhibit 8  
 Site Plan for Proposed Activity  
 Site # 22 Hydraulic Ditch**

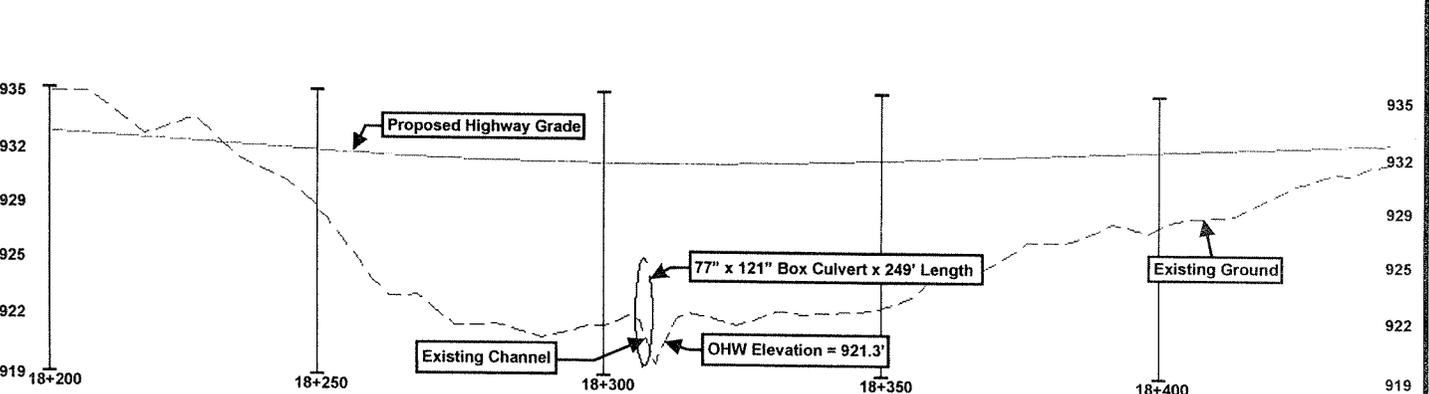
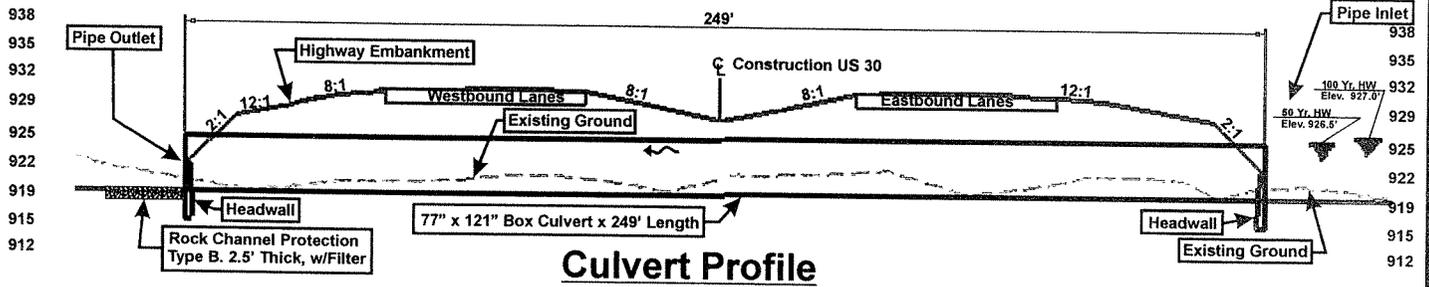
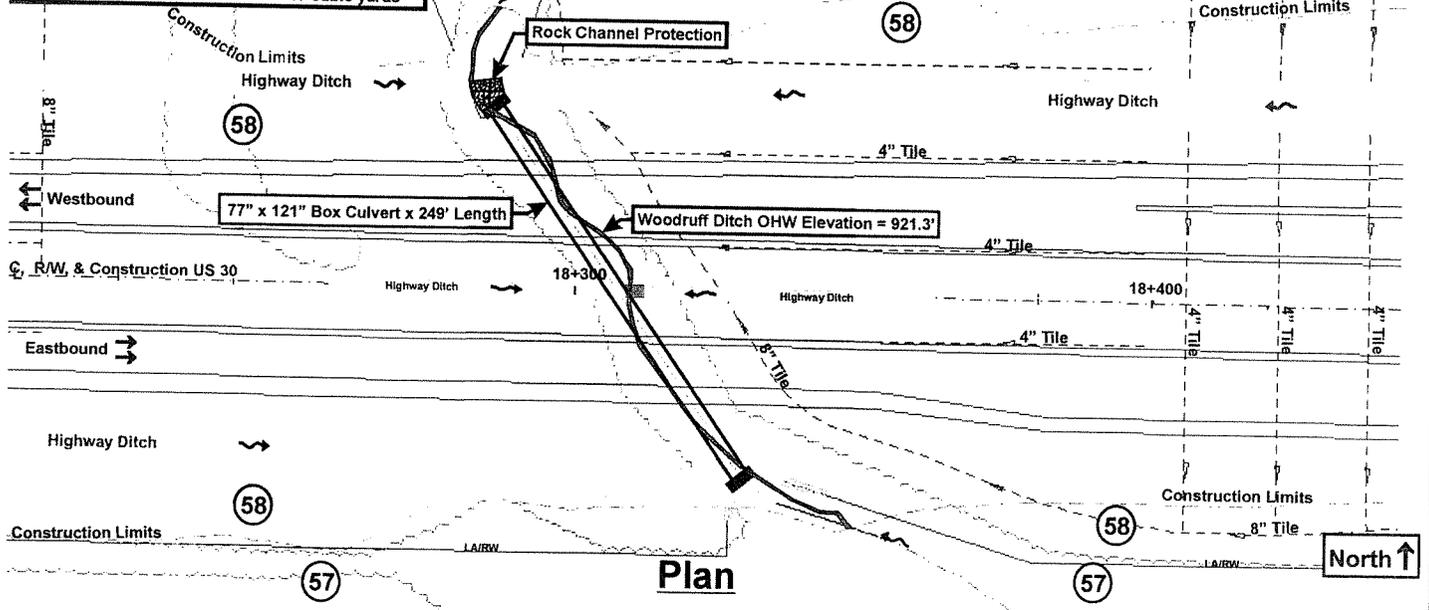
**U.S. Army Corps of Engineers 404 Permit and OEPA Section 401 Water Quality Certification Application**

US 30 Improvement, SR 235 to Upper Sa Hancock & Wyandot Counties HAN/WYA-30-3.00/0.00; PID 12420, 1

OHIO DEPARTMENT OF TRANSPORTATION  
 D/A Processing No. 95-302-5(5)  
 Hancock County, Ohio Quad: ADA  
 Sheet 9 of 41

**Channel Disturbance (Below OHW):**  
 Length of Channel Disturbed: 400 lineal feet  
 Excavation Below OHW: 39 cubic yards  
 Fill Below OHW: 164 cubic yards  
 Standard Roadfill: 147 cubic yards  
 Rock Channel Protection: 17 cubic yards

 = Approximate Disturbance due to Excavation and/or Fill Below OHW  
 = Approximate Disturbance due to Rock Channel Protection Below OHW



**Property Owners:**  
 (57) Arden LE Woods, et al  
 (58) Ray D. and Waneta L. Worstine

Approximate Plan Scale: 1" = 110'  
 Approximate Culvert Profile Scale: 1" = 45'  
 Approximate Highway Profile Horizontal Scale: 1" = 115'



**Exhibit 9  
 Site Plan for Proposed Activity  
 Site # 27 Woodruff Ditch**

**U.S. Army Corps of Engineers 404 Permit and OEPA Section 401 Water Quality Certification Application**

US 30 Improvement, SR 235 to Upper Sar.  
 Hancock & Wyandot Counties,  
 HAN/WYA-30-3.00/0.00; PID 12420, 1;

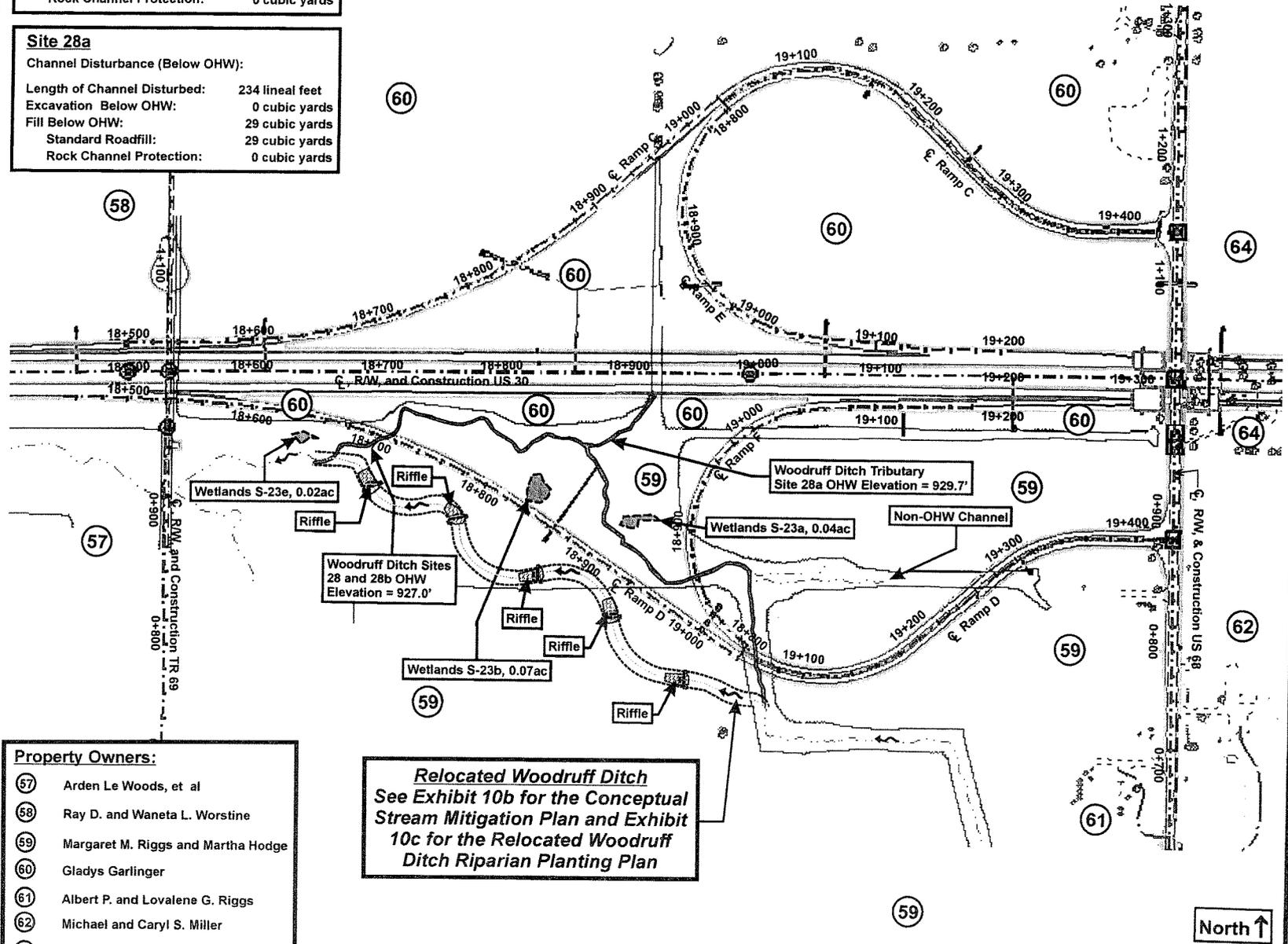


**Site 28 and 28b**  
 Channel Disturbance (Below OHW):  
 Length of Channel Disturbed: 1,973 lineal feet  
 Excavation Below OHW: 25 cubic yards  
 Fill Below OHW: 1,764 cubic yards  
 Standard Roadfill: 1,764 cubic yards  
 Rock Channel Protection: 0 cubic yards

**Site 28a**  
 Channel Disturbance (Below OHW):  
 Length of Channel Disturbed: 234 lineal feet  
 Excavation Below OHW: 0 cubic yards  
 Fill Below OHW: 29 cubic yards  
 Standard Roadfill: 29 cubic yards  
 Rock Channel Protection: 0 cubic yards

**NOTES:**  
 - See Exhibits 29 and 30 for wetland details  
 - See Appendix D (Rosgen data) for additional physical details and information on Woodruff Ditch

= Approximate Disturbance due to Excavation and/or Fill Below OHW  
 = Relocated Woodruff Ditch



**Relocated Woodruff Ditch**  
 See Exhibit 10b for the Conceptual Stream Mitigation Plan and Exhibit 10c for the Relocated Woodruff Ditch Riparian Planting Plan

**Property Owners:**

57	Arden Le Woods, et al
58	Ray D. and Waneta L. Worstine
59	Margaret M. Riggs and Martha Hodge
60	Gladys Garlinger
61	Albert P. and Lovalene G. Riggs
62	Michael and Caryl S. Miller
64	Michael L. Franks

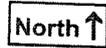
U.S. Army Corps of Engineers 404 Permit and OSPA Section 401 Water Quality Certification Application

**Exhibit 10a**  
 Site Plan for Proposed Activity  
 Sites 28 and 28b Woodruff Ditch,  
 and Site 28a Woodruff Ditch Tributary

US 30 Improvement, SR 235 to Upper Sa Hancock & Wyandot Counties HAN/MYA-30-3.00/0.00; PID 12420, 1

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Approximate Schematic Scale: 1" = 410'



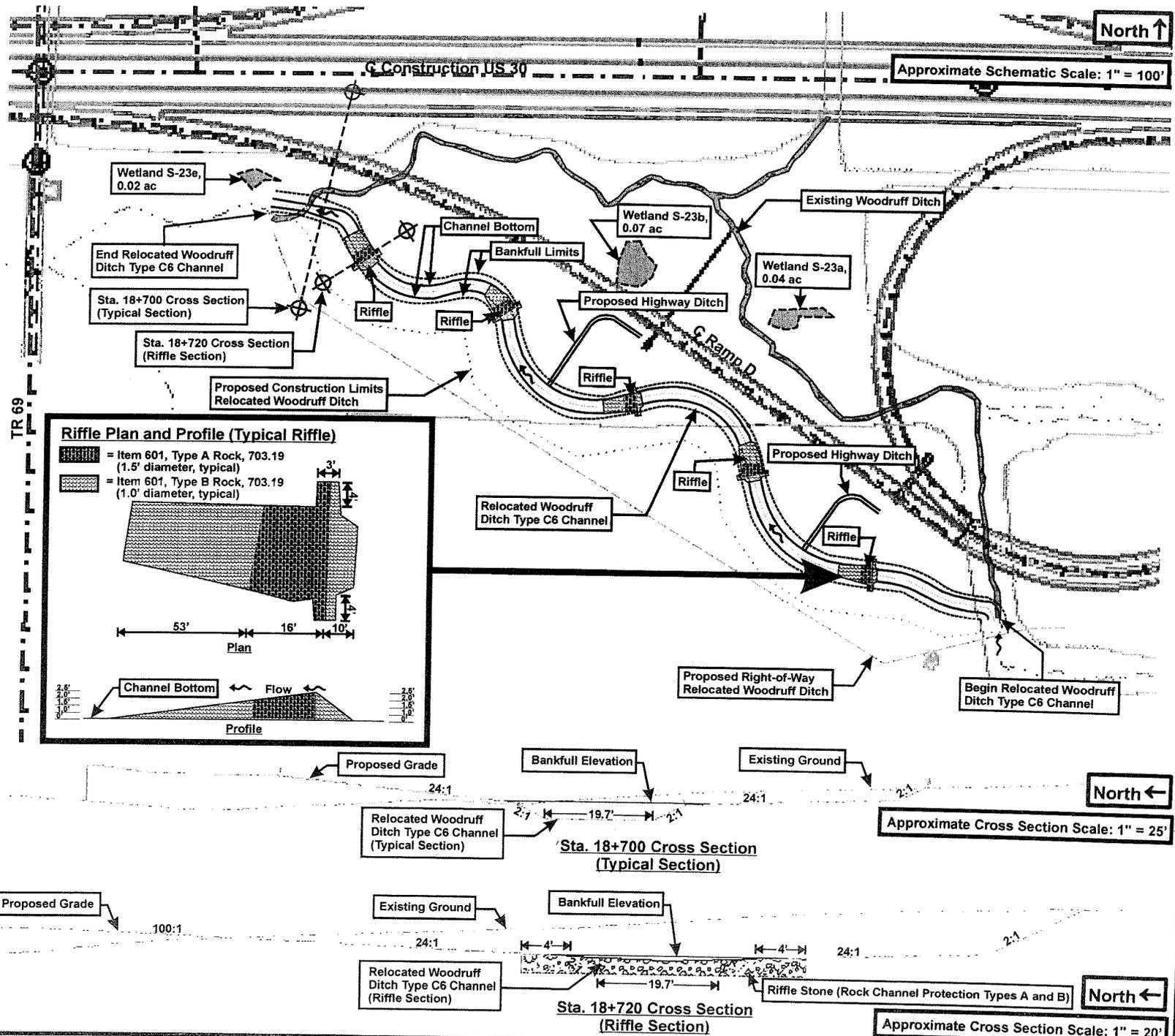


US 30 Improvement, SR 235 to Upper S  
Hancock & Wyandot Counties  
HAN/WYA-30-3.00/0.00; PID 12420.

**Exhibit 10b**  
**Sites 28 and 28b Woodruff Ditch,**  
**and Site 28a Woodruff Ditch Tributary**  
**Conceptual Stream Mitigation Plan**

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**Exhibit 10c**  
**Sites 28 and 28b Woodruff Ditch**  
**and Site 28a Woodruff Ditch Tributary**  
**Relocated Woodruff Ditch Riparian Planting Plan**

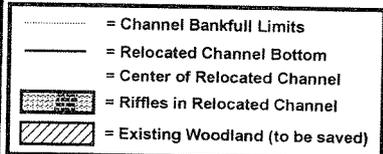
US 30 Improvement, SR 235 to Upper Sar  
 Hancock & Wyandot Counties,  
 HAN/WYA-30-3.00/0.00; PID 12420, 1

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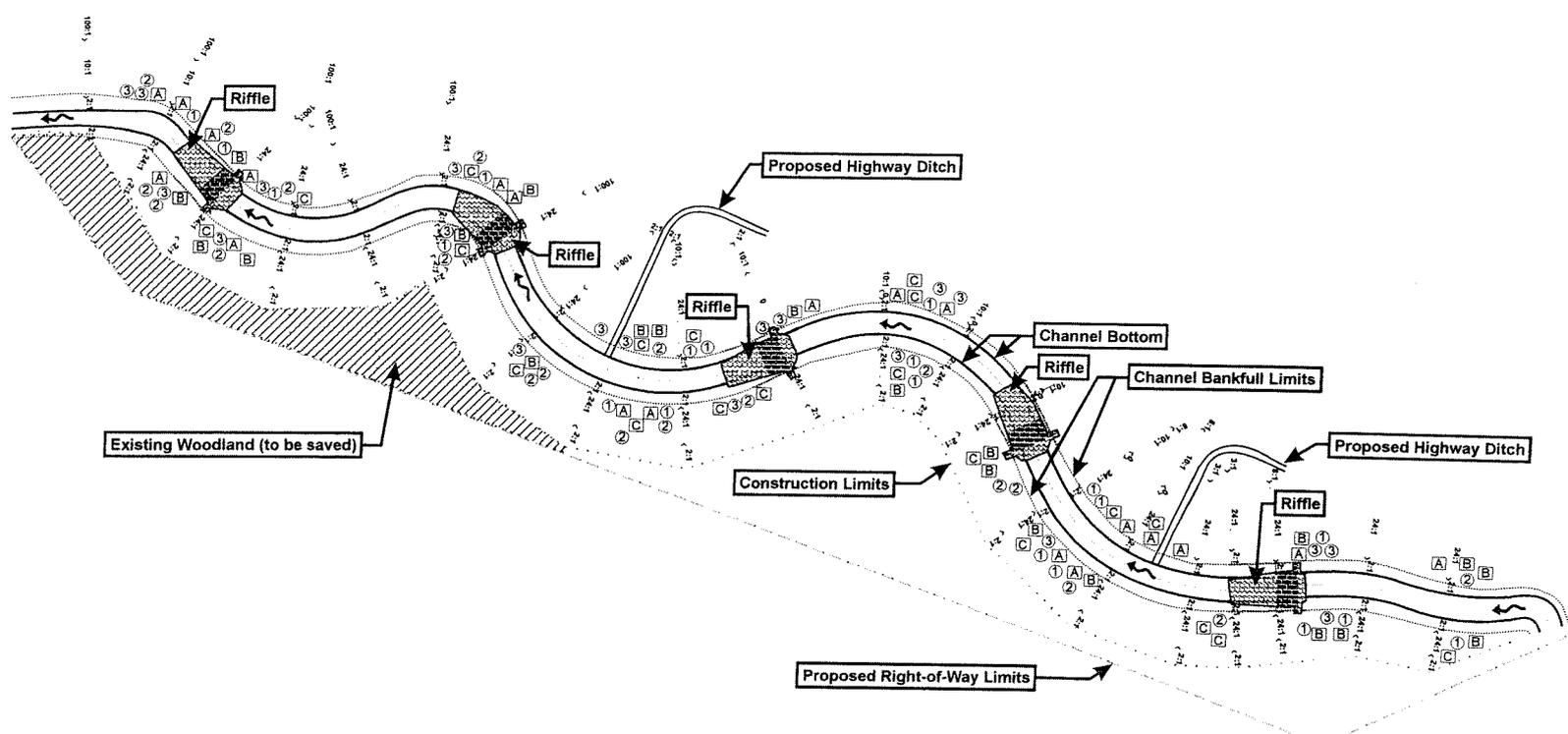
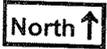
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 Engineers 404 Permit  
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**Relocated Woodruff Ditch Riparian Planting Schedule**

Key	Botanical Name/Common Name	Size	Condition	
⊕	<i>Acer rubrum</i> /Red maple	1" caliper	B & B	20
⊖	<i>Fraxinus pennsylvanica</i> /Green ash	1" caliper	B & B	20
⊙	<i>Platanus occidentalis</i> /American sycamore	1" caliper	B & B	20
⊠	<i>Cornus amomum</i> /Silky dogwood	3' height	1 gallon containerized	20
⊡	<i>Viburnum dentatum</i> /Arrowwood	3' height	1 gallon containerized	20
⊣	<i>Sambucus canadensis</i> /Elderberry	3' height	1 gallon containerized	20
---	Low Growing Slope Mix (Item 870.11, 3A)	---	Plant along 24:1 slopes	---

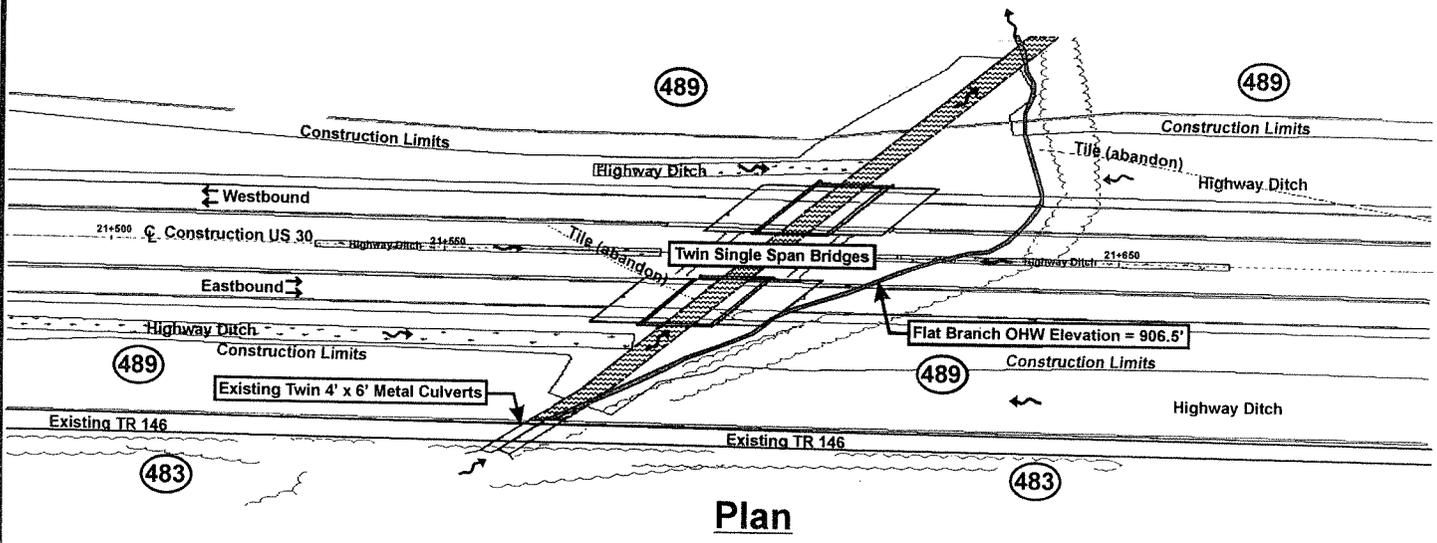


Approximate Scale: 1" = 160'

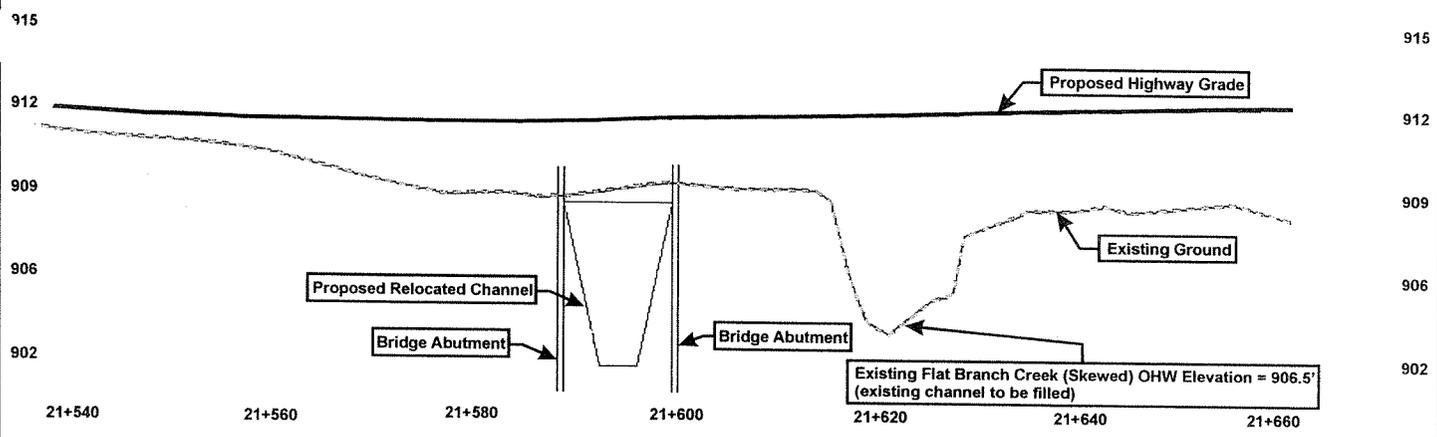
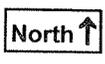


**Channel Disturbance (Below OHW):**  
 Length of Channel Disturbed: 369 lineal feet  
 Excavation Below OHW: 31 cubic yards  
 Fill Below OHW: 282 cubic yards  
 Standard Roadfill: 282 cubic yards  
 Rock Channel Protection: 0 cubic yards

 = Approximate Disturbance due to Excavation and/or Fill Below OHW  
 = Relocated Flat Branch



**Plan**



**Highway Profile  
 (with existing channel section)**

**Property Owners:**  
 W. and D. Crowe  
 Clarence L. and Dorothea C. Jolliff

Approximate Plan Scale: 1" = 95'  
 Approximate Highway Profile Horizontal Scale: 1" = 60'



**Exhibit 11  
 Site Plan for Proposed Activity  
 Site # 28c Flat Branch Creek**

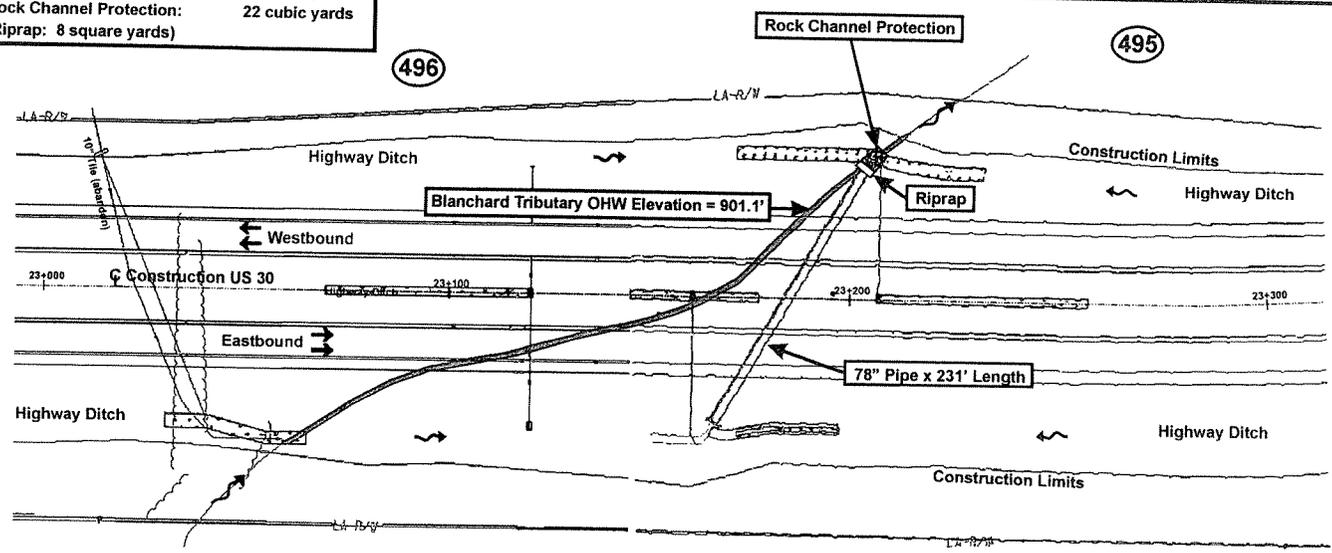
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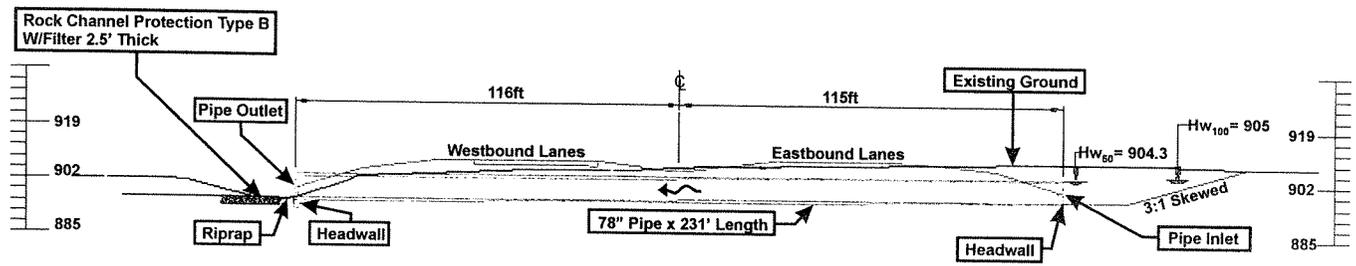
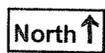
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**Channel Disturbance (Below OHW):**  
 Length of Channel Disturbed: 563 lineal feet  
 Excavation Below OHW: 206 cubic yards  
 Fill Below OHW: 566 cubic yards  
 Standard Roadfill: 544 cubic yards  
 Rock Channel Protection: 22 cubic yards  
 (Riprap: 8 square yards)

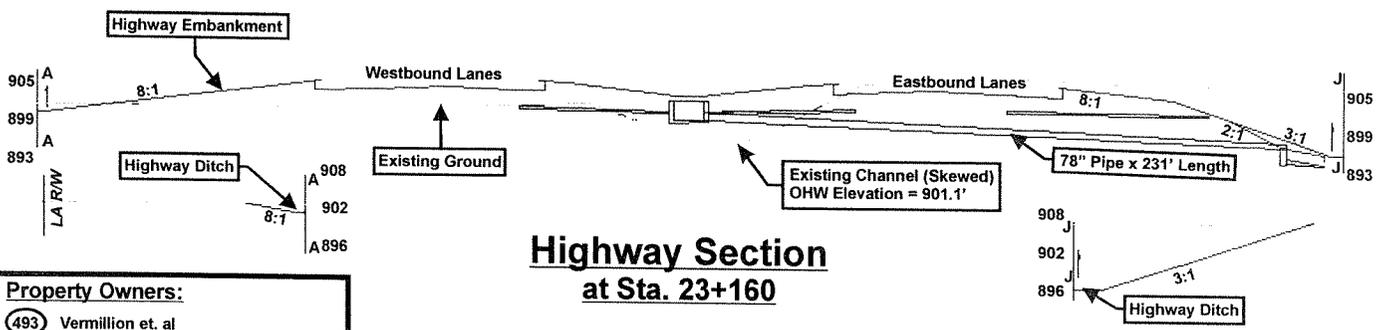
 = Approximate Disturbance due to Excavation and/or Fill Below OHW  
 = Approximate Disturbance due to Rock Channel Protection Below OHW



**Plan**



**Culvert Profile**



**Highway Section at Sta. 23+160**

**Property Owners:**  
 493 Vermillion et. al  
 495 Roger and Rose Marie Miller  
 496 William E. and Merilyn J. Crabill

Approximate Plan Scale: 1" = 160'  
 Approximate Profile Scale: 1" = 60'  
 Approximate Cross Section Scale: 1" = 30'



**Exhibit 12  
 Site Plan for Proposed Activity  
 Site # 29 Blanchard River Tributary**

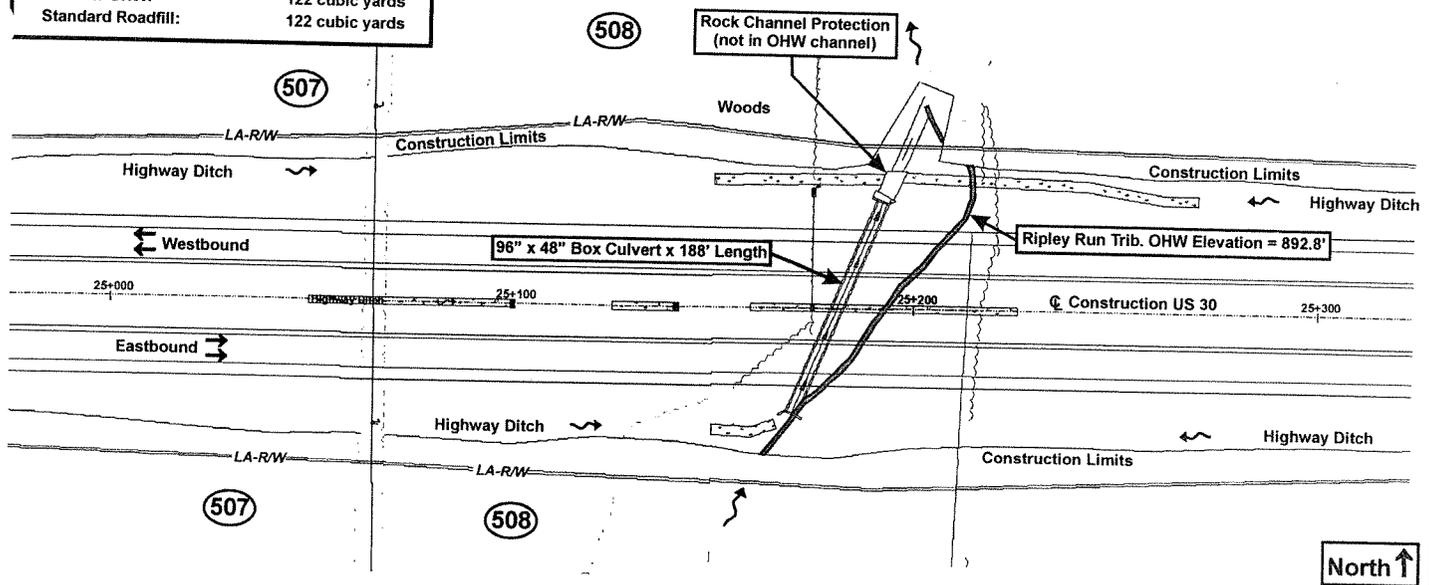
US 30 Improvement, SR 235 to Upper Sa  
 Hancock & Wyandot Counties  
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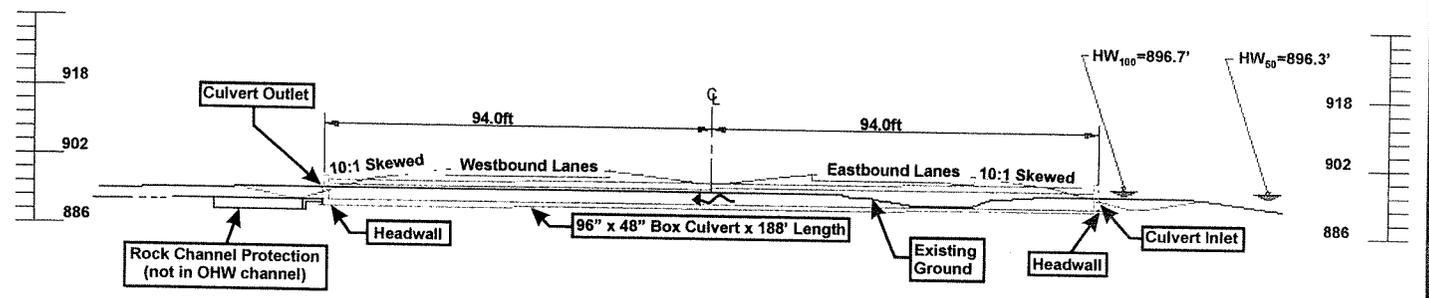
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**Channel Disturbance (Below OHW):**  
 Length of Channel Disturbed: 336 lineal feet  
 Excavation Below OHW: 57 cubic yards  
 Fill Below OHW: 122 cubic yards  
 Standard Roadfill: 122 cubic yards

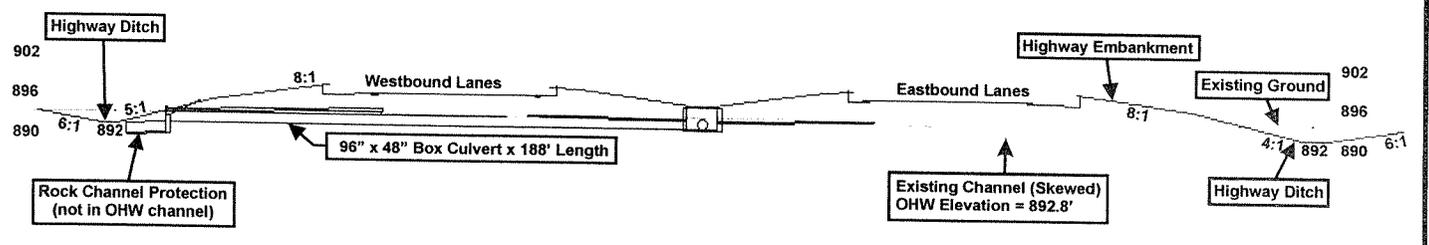
 = Approximate Disturbance due to Excavation and/or Fill Below OHW



**Plan**



**Culvert Profile**



**Highway Section at Sta. 25+180**

**Property Owners:**  
 (507) Steven B. and Gwyn L. Siam  
 (508) Mildred M. Baker

Approximate Plan Scale: 1" = 160'  
 Approximate Profile Scale: 1" = 45'  
 Approximate Cross Section Scale: 1" = 30'



**Exhibit 13  
 Site Plan for Proposed Activity  
 Site # 31 Ripley Run Tributary**

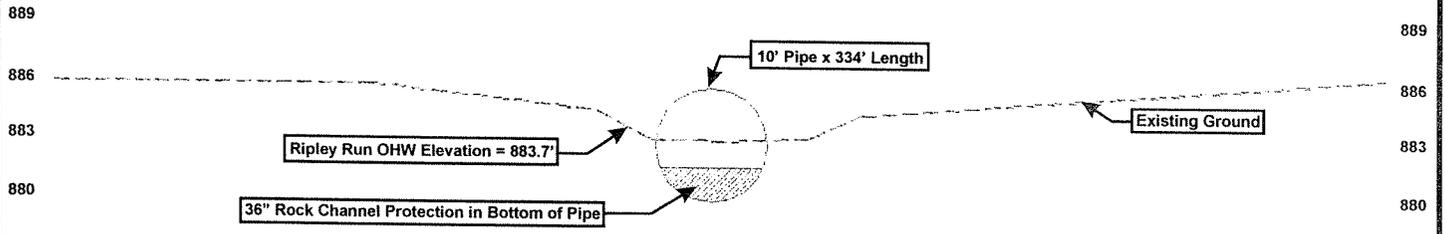
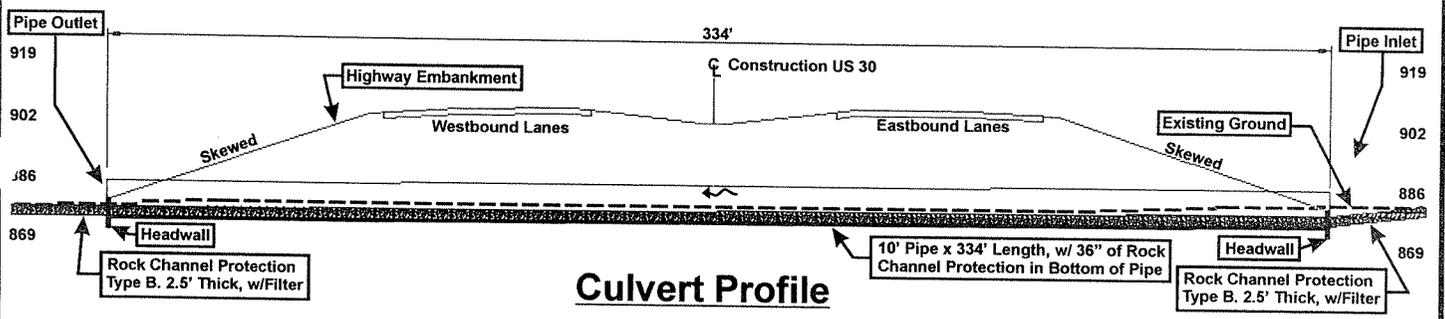
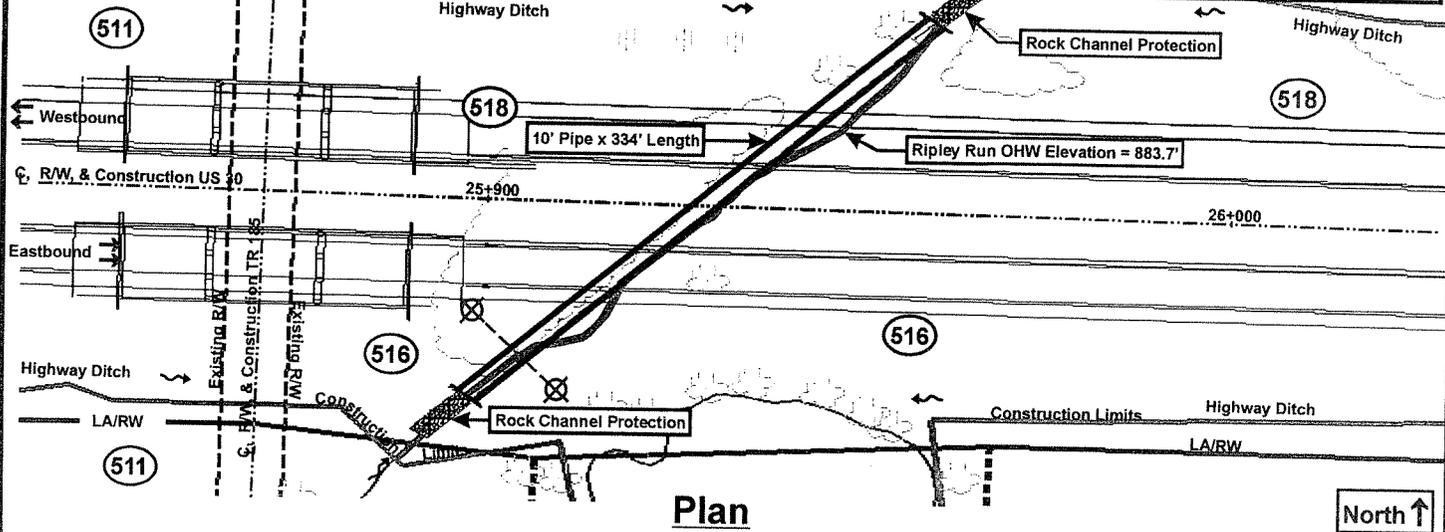
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**Channel Disturbance (Below OHW):**  
 Length of Channel Disturbed: 422 lineal feet  
 Excavation Below OHW: 538 cubic yards  
 Fill Below OHW: 524 cubic yards  
 Standard Roadfill: 266 cubic yards  
 Rock Channel Protection: 258 cubic yards

= Approximate Disturbance due to Excavation and/or Fill Below OHW  
 = Approximate Disturbance due to Rock Channel Protection Below OHW  
 = Cross Section (see below) Location



**Property Owners:**  
 (511) Billy D. and Patsy L. Moore  
 (516) Larry E. Dunson  
 (518) Mark D. and Jan A. Barnes

Approximate Plan Scale: 1" = 85'  
 Approximate Culvert Profile Scale: 1" = 50'  
 Approximate Cross Section: 1" = 15'



**Exhibit 14  
 Site Plan for Proposed Activity  
 Site # 32 Ripley Run**

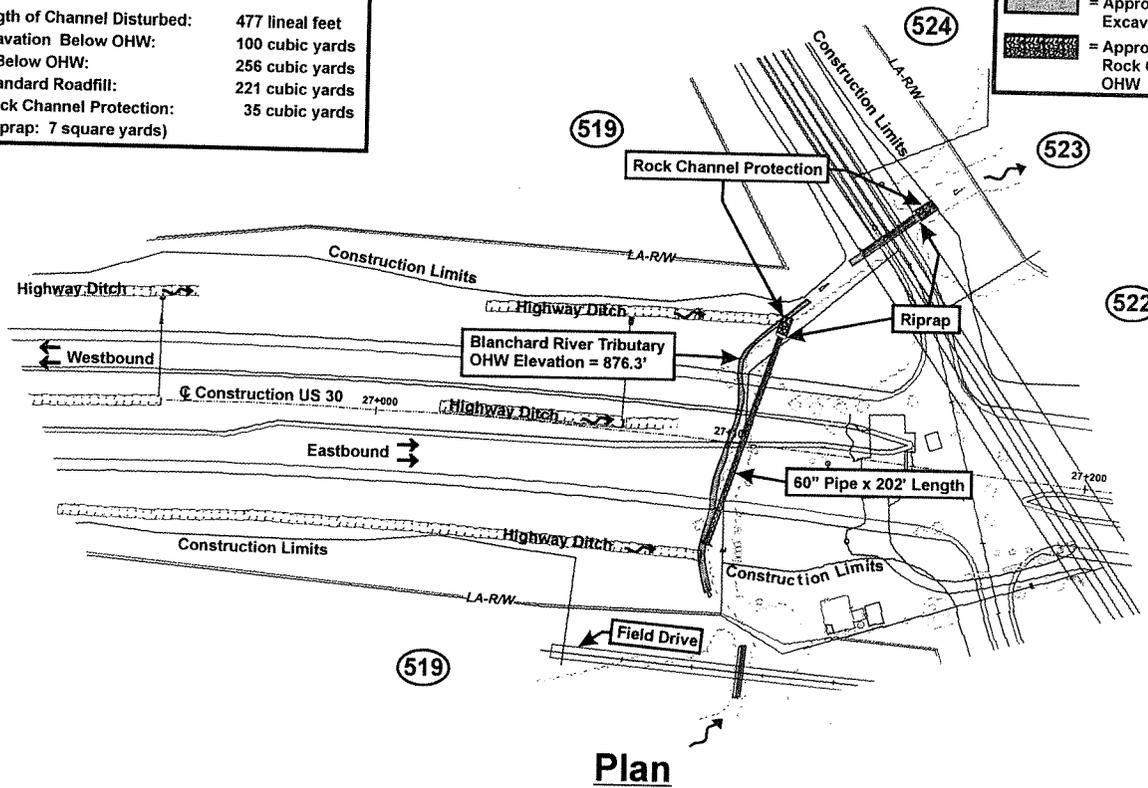
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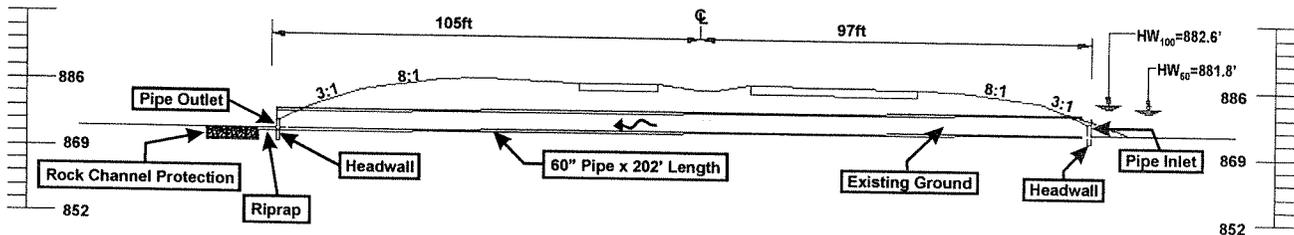
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**Channel Disturbance (Below OHW):**  
 Length of Channel Disturbed: 477 lineal feet  
 Excavation Below OHW: 100 cubic yards  
 Fill Below OHW: 256 cubic yards  
 Standard Roadfill: 221 cubic yards  
 Rock Channel Protection: 35 cubic yards  
 (Riprap: 7 square yards)

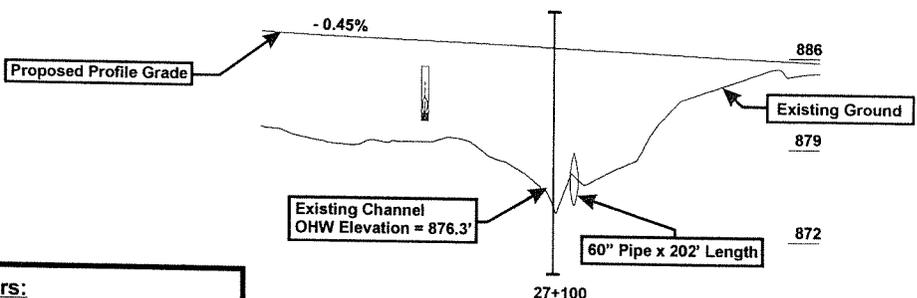
 = Approximate Disturbance due to Excavation and/or Fill Below OHW  
 = Approximate Disturbance due to Rock Channel Protection Below OHW



**Plan**



**Culvert Profile**



**Highway Profile with existing channel section**

**Property Owners:**  
 519 Evelyn V. Clinger, Trustee  
 522 Fred Miller, Jr. and Delta M. Miller  
 523 Allen Ferrell  
 524 John A. Walker, Jr. and Rebecca W. Bouldin

Approximate Plan Scale: 1" = 175'  
 Approximate Profile Scale: 1" = 50'  
 Approximate Cross Section Scale: 1" = 15'



**Exhibit 15**  
**Site Plan for Proposed Activity**  
**Site # 33 Blanchard River Tributary**

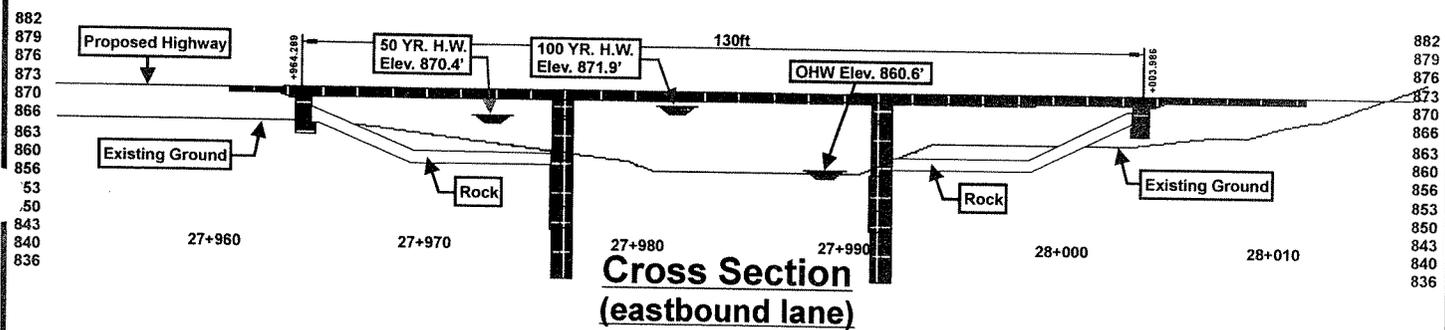
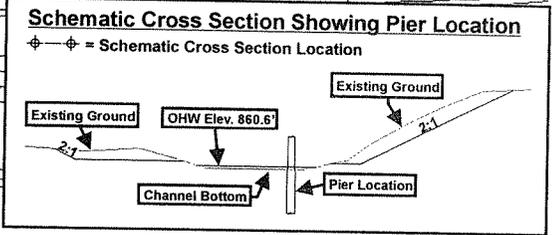
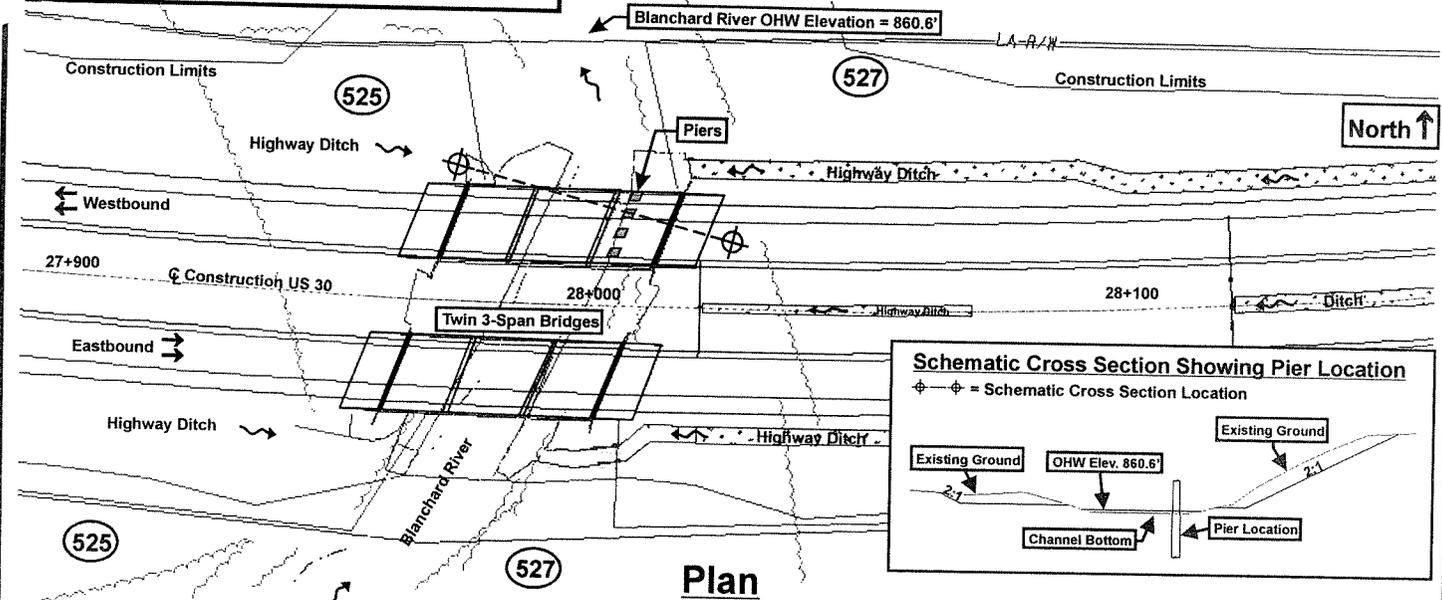
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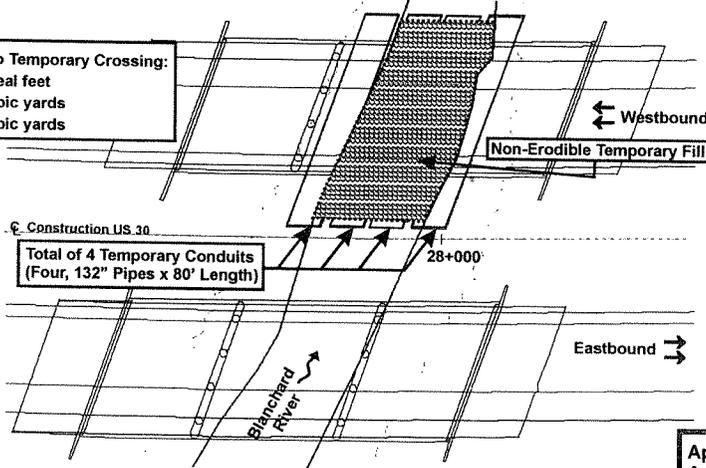
Channel Disturbance (Below OHW):  
 Length of Channel Disturbed: 70 lineal feet (For Pier Placement)  
 Excavation Below OHW: 3 cubic yards  
 Fill Below OHW: 4 cubic yards  
 Concrete (for piers): 4 cubic yards

[Hatched Box] = Approximate Disturbance due to Excavation and/or Fill Below OHW (Piers Only)



Channel Disturbance (Below OHW) due to Temporary Crossing:  
 Length of Channel Disturbed: 80 lineal feet  
 Excavation Below OHW: 42 cubic yards  
 Fill Below OHW: 157 cubic yards

[Hatched Box] = Approximate Disturbance due to Temporary Fill Below OHW (Fill and Pipes to be Removed)



**Property Owners:**  
 525 Judith Ward-Chamberlain  
 527 Lauren N. Bash, et al.

Approximate Plan Scale: 1" = 130'  
 Approximate Cross Section Scale: 1" = 30'  
 Approximate Temporary Crossing Location Scale: 1" = 70'



**Exhibit 16  
 Site Plan for Proposed Activity  
 Site # 34 Blanchard River**

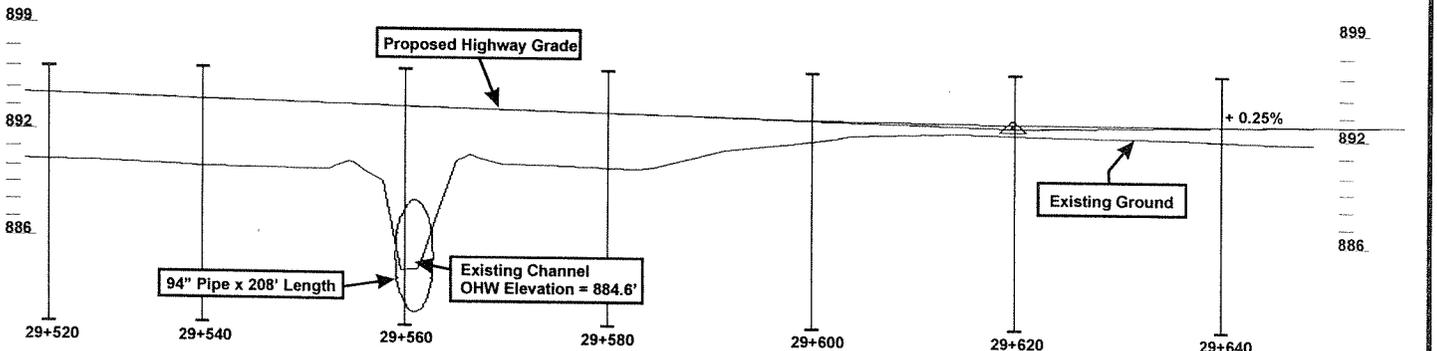
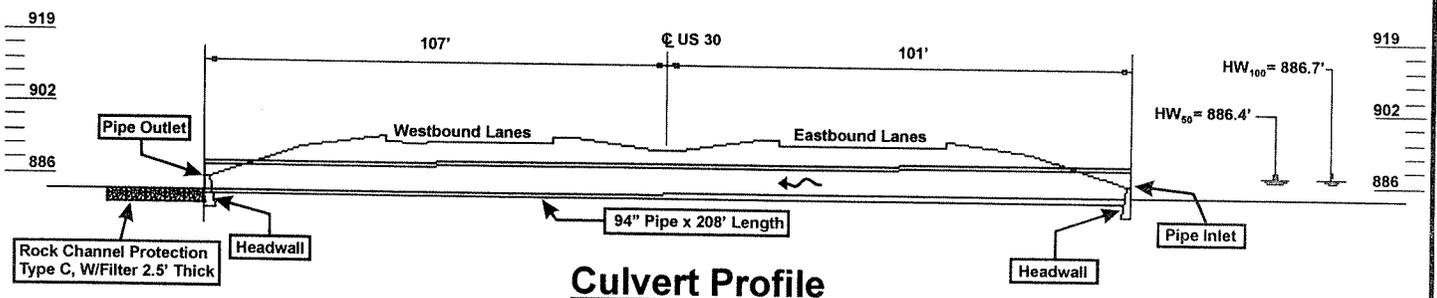
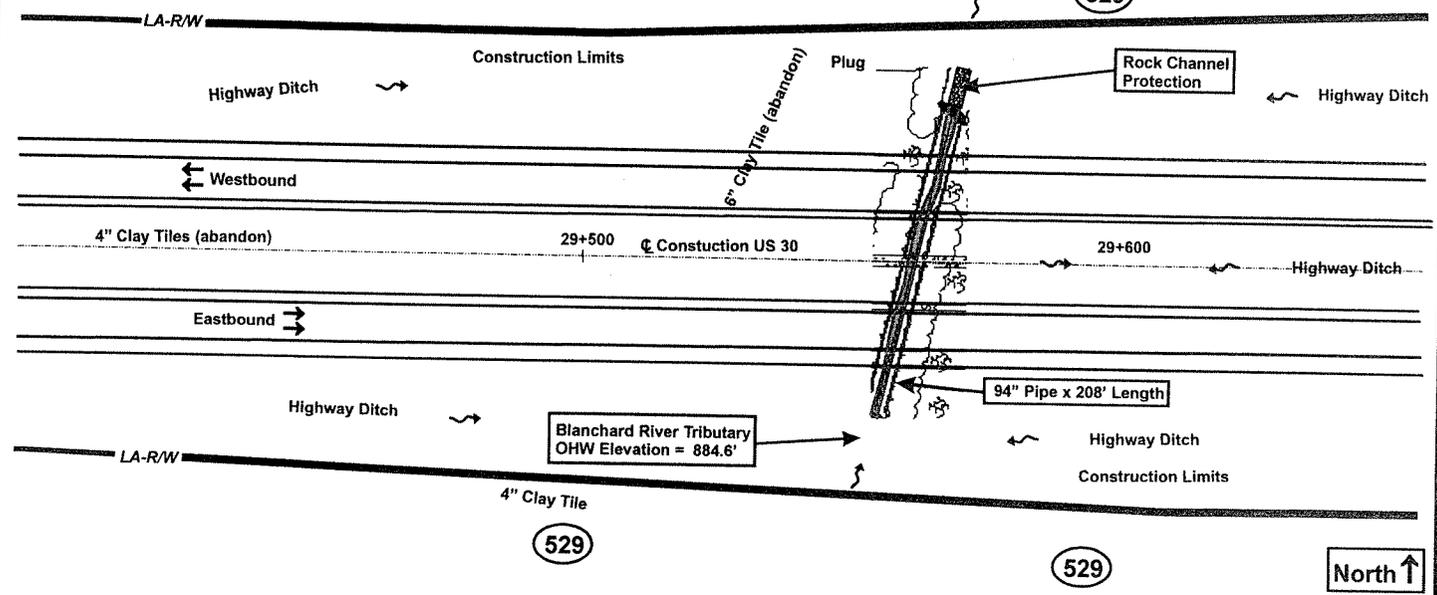
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<b>Channel Disturbance (Below OHW):</b>	
Length of Channel Disturbed:	243 lineal feet
Excavation Below OHW:	247 cubic yards
Fill Below OHW:	70 cubic yards
Standard Roadfill:	37 cubic yards
Rock Channel Protection:	33 cubic yards

	= Approximate Disturbance due to Excavation and/or Fill Below OHW
	= Approximate Disturbance due to Rock Channel Protection Below OHW



**Property Owners:**  
 529 Chester A. Horn, et al.

Approximate Plan Scale: 1" = 115'  
 Approximate Culvert Profile Scale: 1" = 40'  
 Approximate Highway Profile Scale: 1" = 60'



**Exhibit 17**  
**Site Plan for Proposed Activity**  
**Site # 35 Blanchard River Tributary**

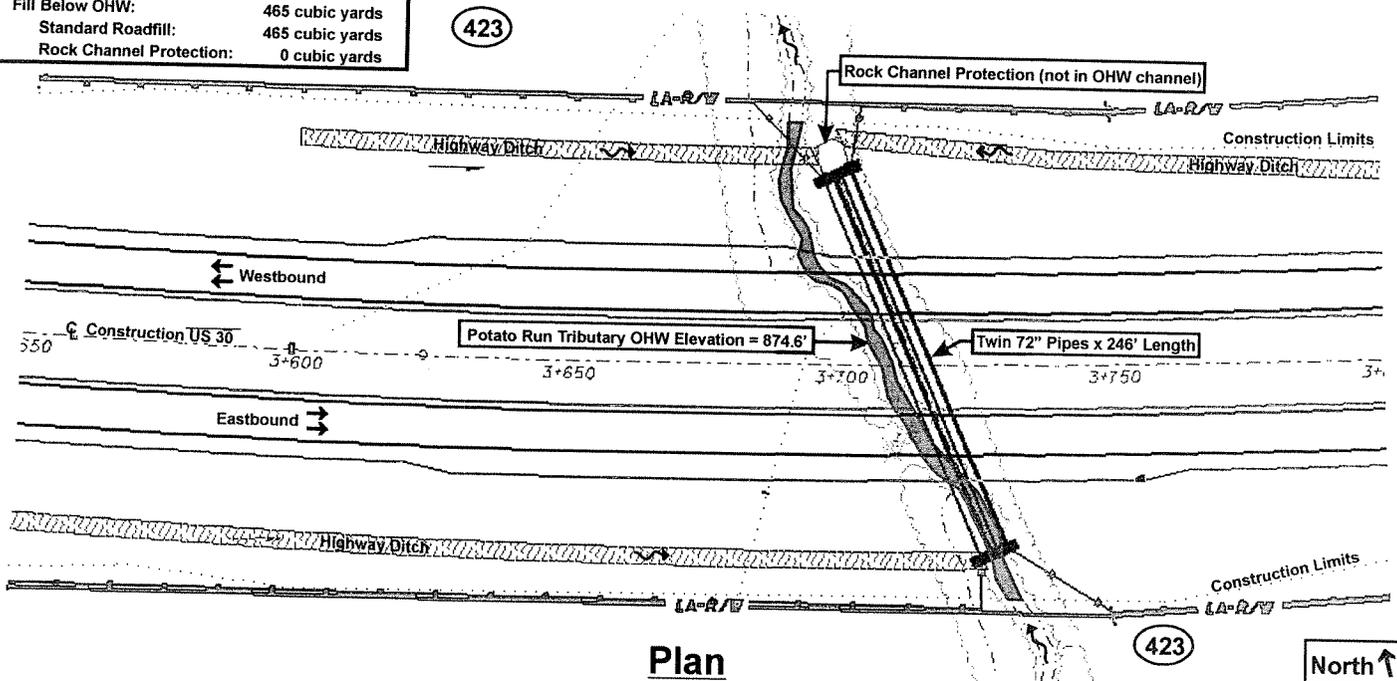
U.S. Army Corps of Engineers 404 Permit and OEPA Section 401 Water Quality Certification Application

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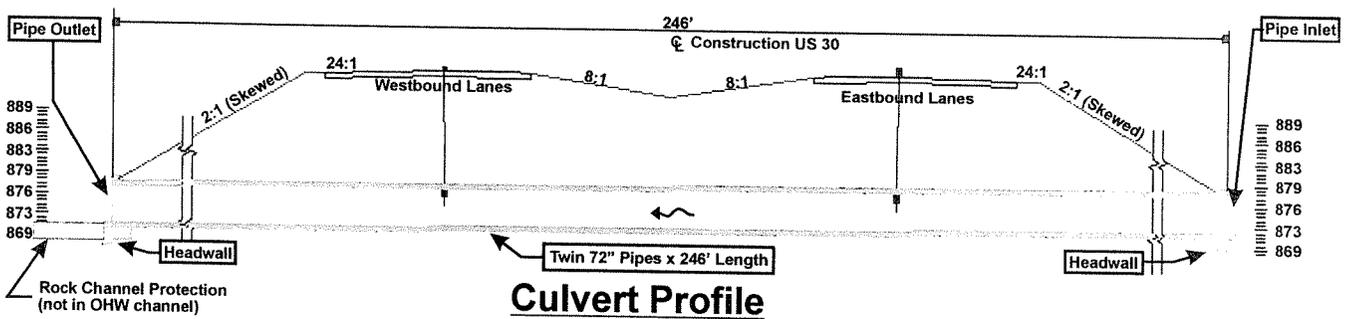
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Channel Disturbance (Below OHW):  
 Length of Channel Disturbed: 329 lineal feet  
 Excavation Below OHW: 49 cubic yards  
 Fill Below OHW: 465 cubic yards  
 Standard Roadfill: 465 cubic yards  
 Rock Channel Protection: 0 cubic yards

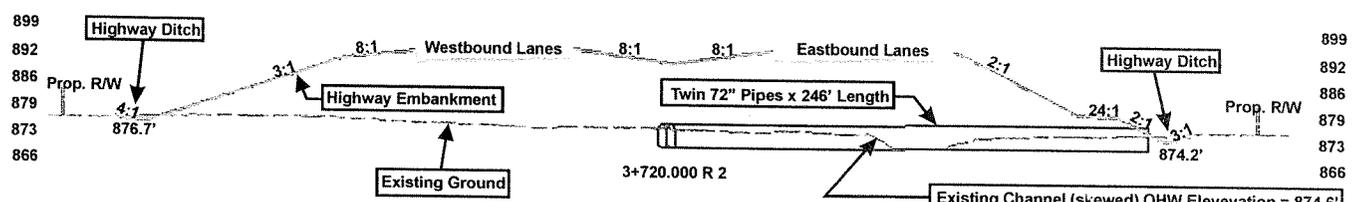
 = Approximate Disturbance due to Excavation and/or Fill Below OHW



**Plan**



**Culvert Profile**



**Highway Section at Sta. 3+720**

Approximate Plan Scale: 1" = 115'  
 Approximate Profile Scale: 1" = 30'  
 Approximate Cross Section Scale: 1" = 55'

**Property Owners:**  
 423 Jeffrey A., Steven R., and James E. Bassler



**Exhibit 19  
 Site Plan for Proposed Activity  
 Site # 41 Potato Run Tributary**

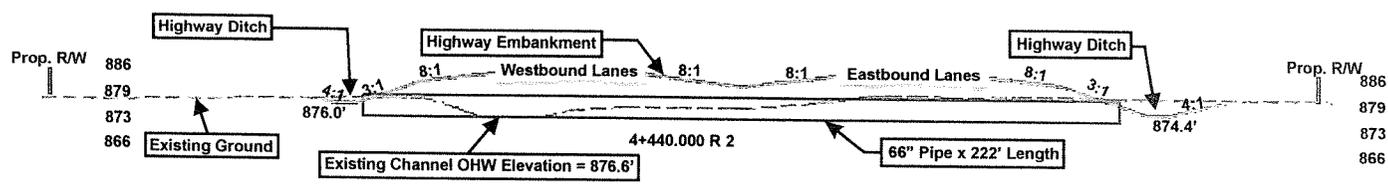
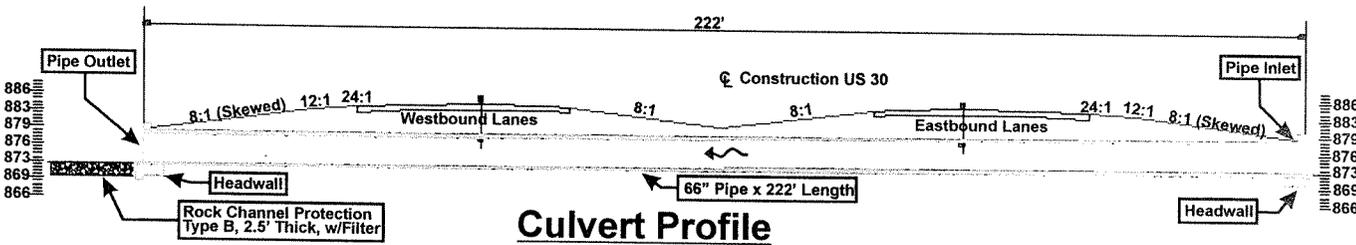
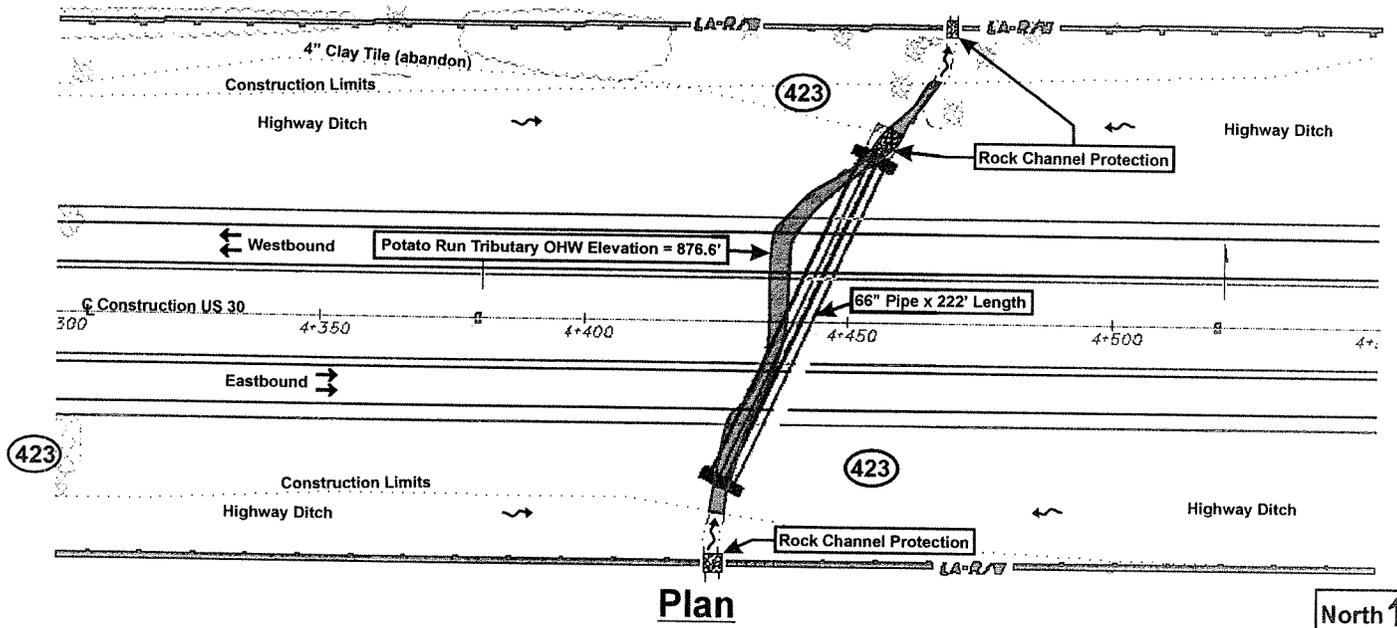
**U.S. Army Corps of  
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 Hancock & Wyandot Counties  
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Channel Disturbance (Below OHW):  
 Length of Channel Disturbed: 380 lineal feet  
 Excavation Below OHW: 188 cubic yards  
 Fill Below OHW: 507 cubic yards  
 Standard Roadfill: 446 cubic yards  
 Rock Channel Protection: 61 cubic yards

[Hatched Box] = Approximate Disturbance due to Excavation and/or Fill Below OHW  
 [Dotted Box] = Approximate Disturbance due to Rock Channel Protection Below OHW



Property Owners:  
 (423) Jeffrey A., Steven R., and James E. Bassler  
 (425) Eugene H. and Carol Sue Forney

Approximate Plan Scale: 1" = 120'  
 Approximate Profile Scale: 1" = 35'  
 Approximate Cross Section Scale: 1" = 75'



**Exhibit 20**  
**Site Plan for Proposed Activity**  
**Site # 43 Potato Run Tributary**

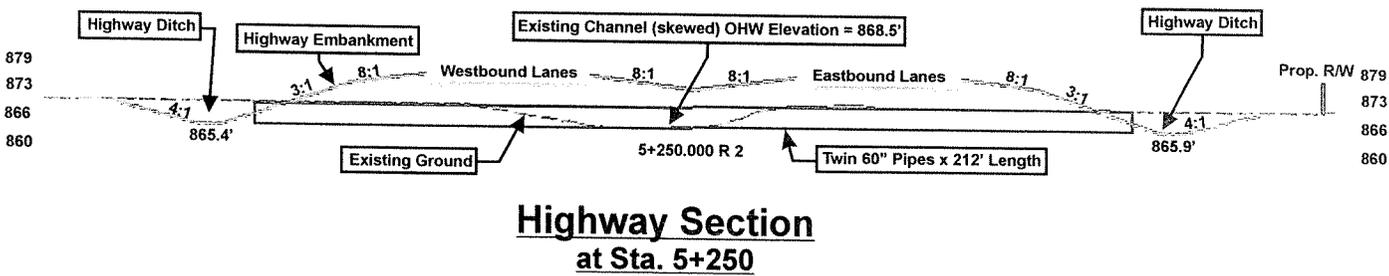
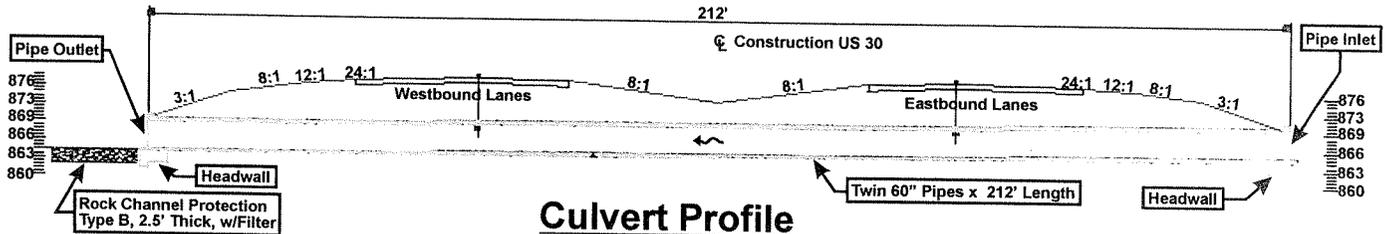
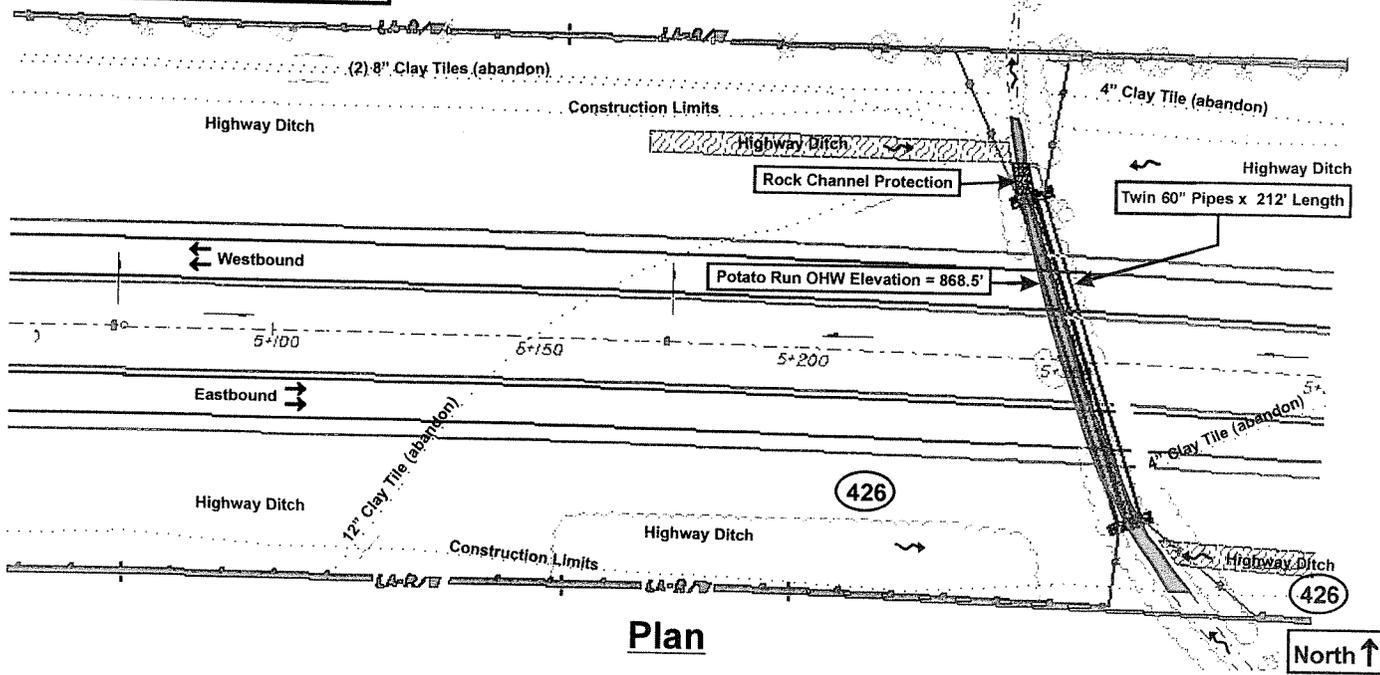
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**Channel Disturbance (Below OHW):**  
 Length of Channel Disturbed: 312 lineal feet  
 Excavation Below OHW: 168 cubic yards  
 Fill Below OHW: 202 cubic yards  
 Standard Roadfill: 177 cubic yards  
 Rock Channel Protection: 25 cubic yards

 = Approximate Disturbance due to Excavation and/or Fill Below OHW  
 = Approximate Disturbance due to Rock Channel Protection Below OHW



**Property Owners:**  
 426 Bonnie D. Rinker

Approximate Plan Scale: 1" = 125'  
 Approximate Profile Scale: 1" = 35'  
 Approximate Cross Section Scale: 1" = 45'



**Exhibit 21**  
**Site Plan for Proposed Activity**  
**Site # 44 Potato Run**

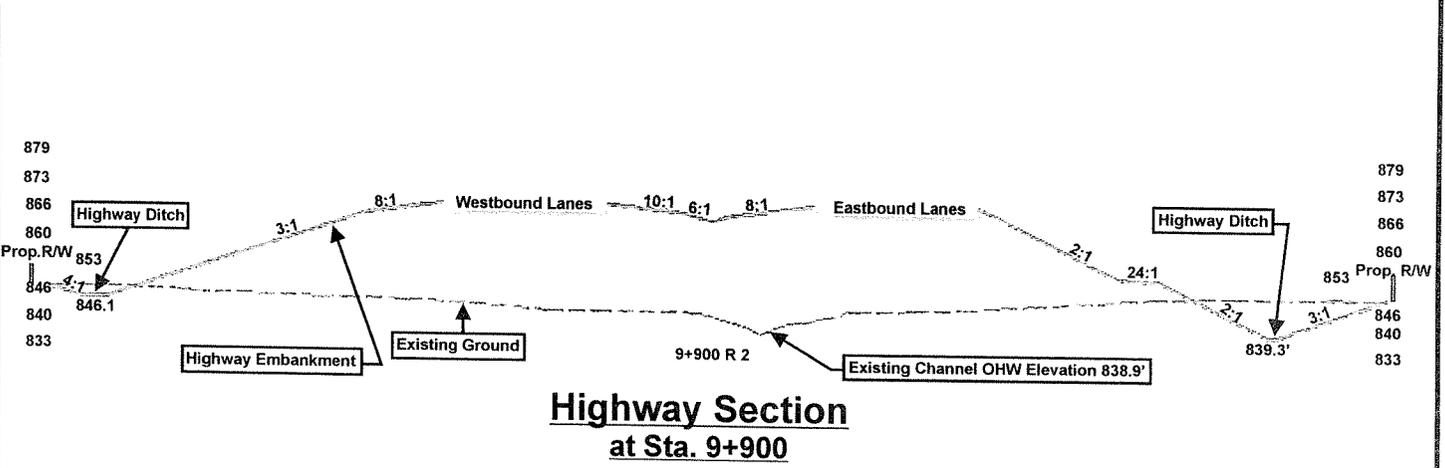
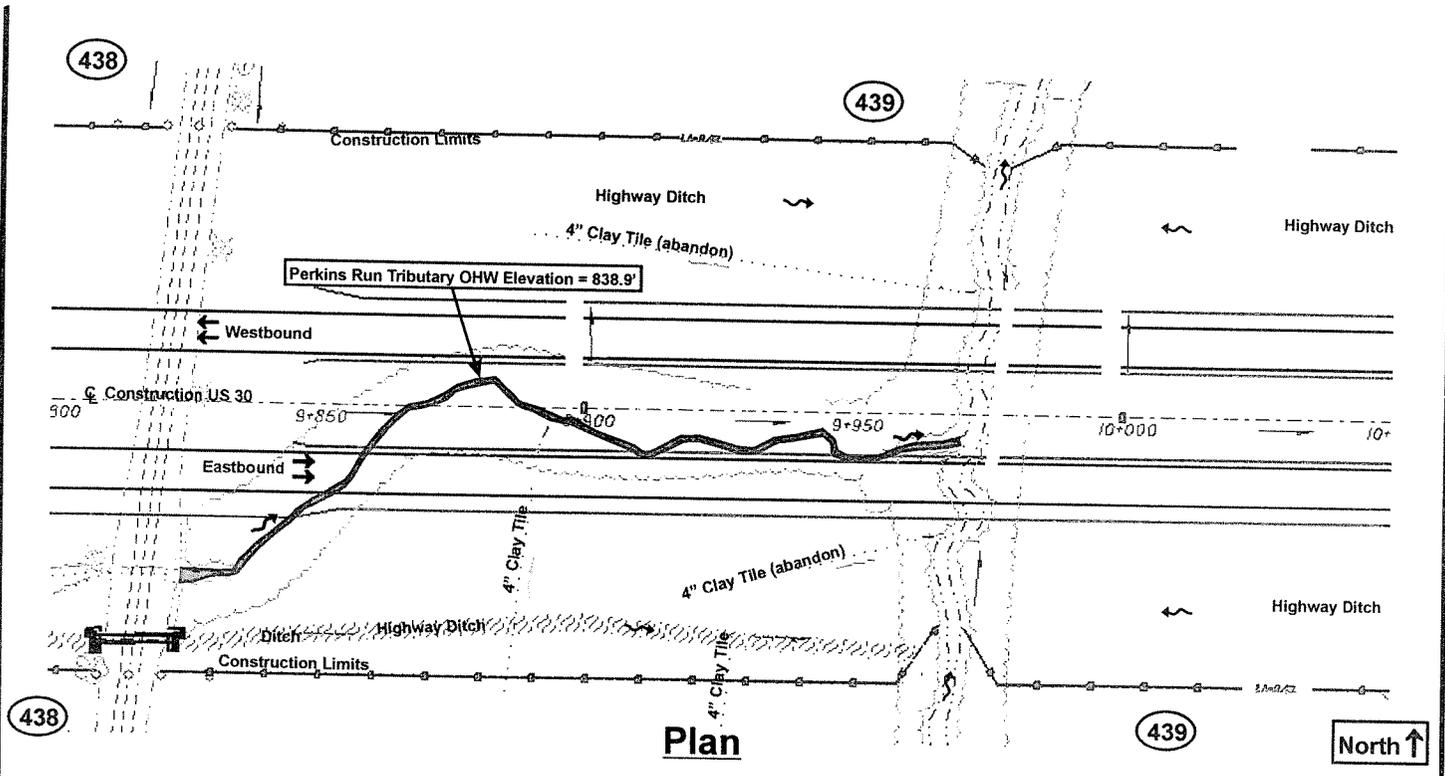
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**Channel Disturbance (Below OHW):**  
 Length of Channel Disturbed: 556 lineal feet  
 Excavation Below OHW: 0 cubic yards  
 Fill Below OHW: 31 cubic yards

 = Approximate Disturbance due to Excavation and/or Fill Below OHW



**Property Owners:**  
 (438) Kenneth L. and Mary A. Riedlinger, Trustees  
 (439) Germaine Vent

Approximate Plan Scale: 1" = 120'  
 Approximate Cross Section Scale: 1" = 45'



**Exhibit 22**  
**Site Plan for Proposed Activity**  
**Site # 51 Perkins Run Tributary**

U.S. Army Corps of Engineers 404 Permit and OEPA Section 401 Water Quality Certification Application

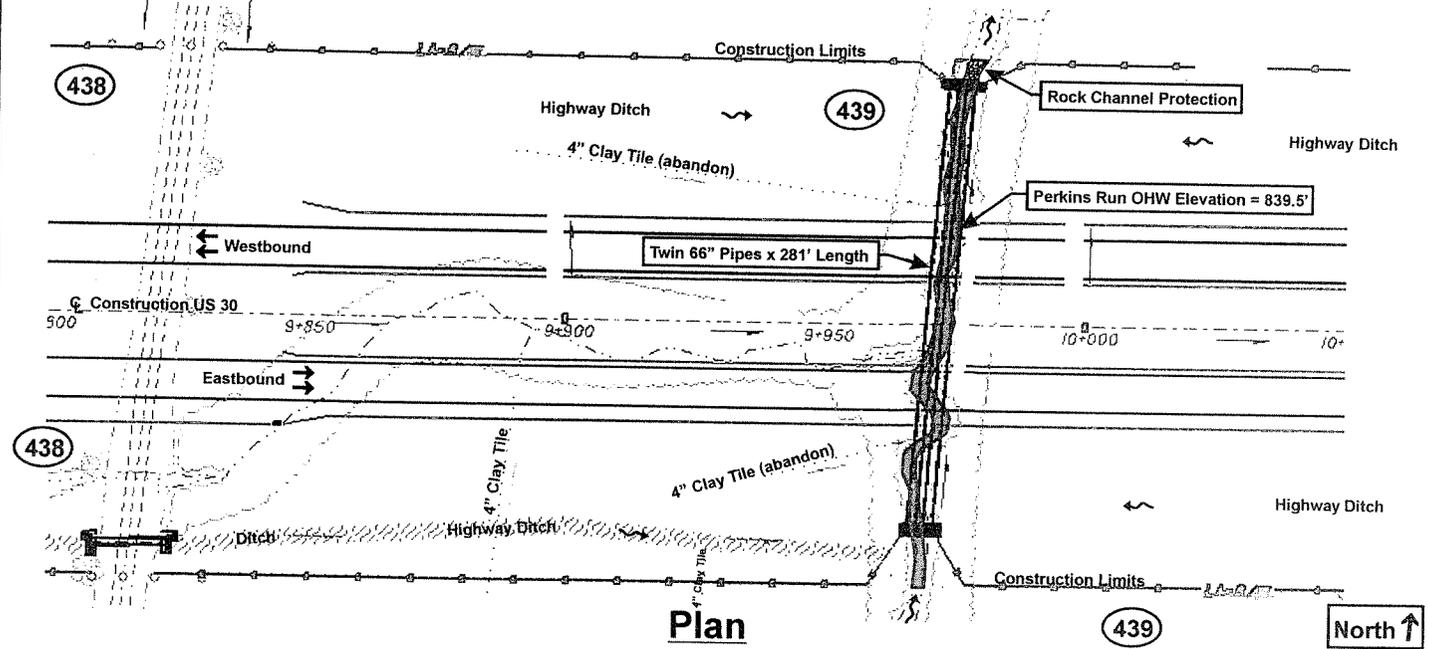
US 30 Improvement, SR 235 to Upper Sa.  
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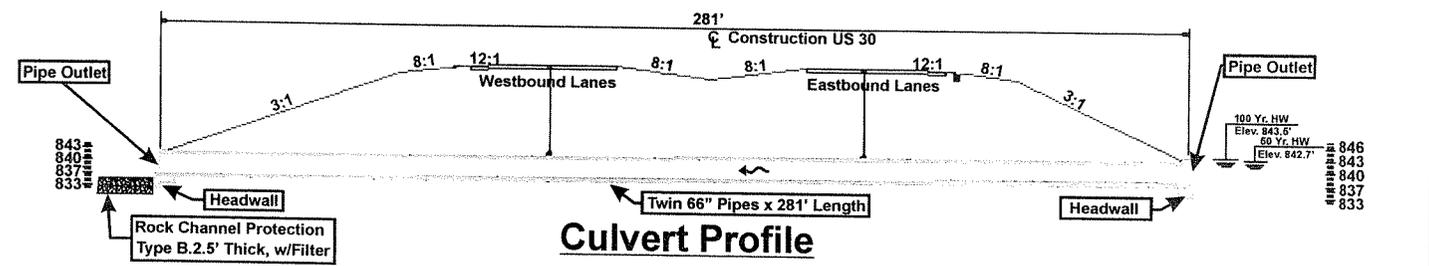
**Channel Disturbance (Below OHW):**

Length of Channel Disturbed: 353 lineal feet  
 Excavation Below OHW: 51 cubic yards  
 Fill Below OHW: 395 cubic yards  
 Standard Roadfill: 383 cubic yards  
 Rock Channel Protection: 12 cubic yards

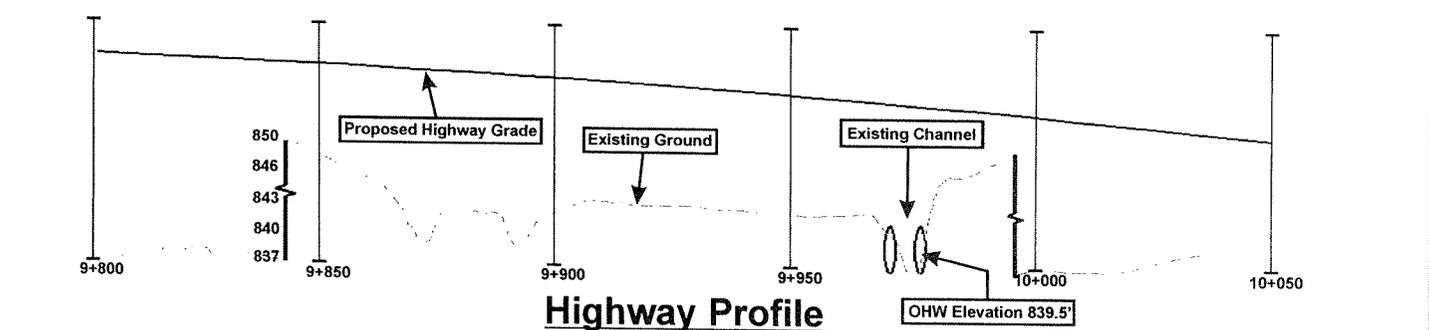
 = Approximate Disturbance due to Excavation and/or Fill Below OHW  
 = Approximate Disturbance due to Rock Channel Protection Below OHW



**Plan**



**Culvert Profile**



**Highway Profile**  
 (with existing channel section)

**Property Owners:**  
 (438) Kenneth L. and Mary A. Riedlinger, Trustees  
 (439) Germaine Vent

Approximate Plan Scale: 1" = 120'  
 Approximate Culvert Profile Scale: 1" = 60'  
 Approximate Highway Profile Scale: 1" = 75'



**Exhibit 23**  
**Site Plan for Proposed Activity**  
**Site # 52 Perkins Run**

U.S. Army Corps of Engineers 404 Permit and OEPA Section 401 Water Quality Certification Application

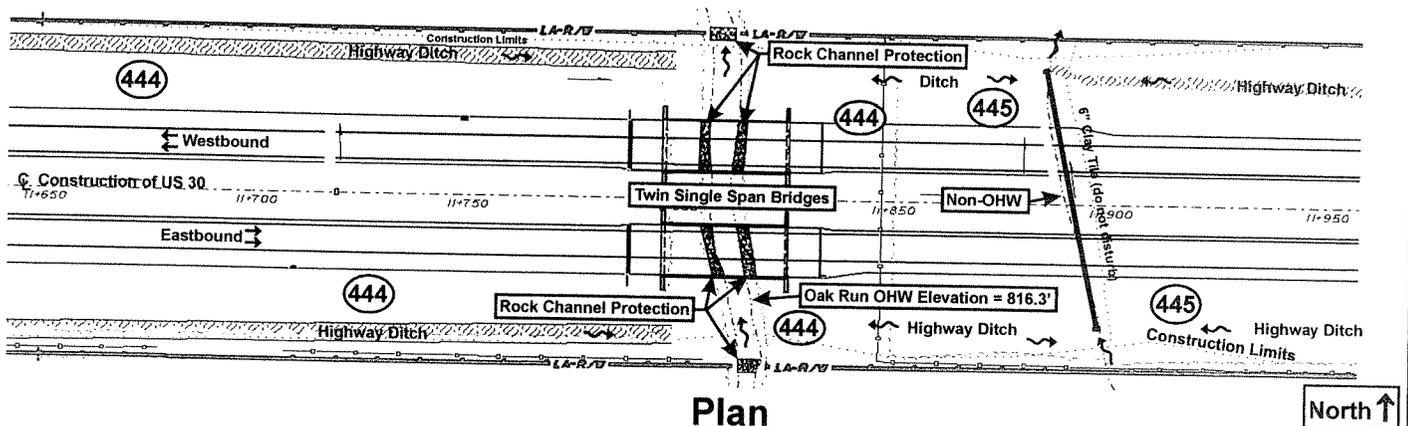
US 30 Improvement, SR 235 to Upper Sa Hancock & Wyandot Counties HAN/WYA-30-3.00/0.00; PID 12420, 1

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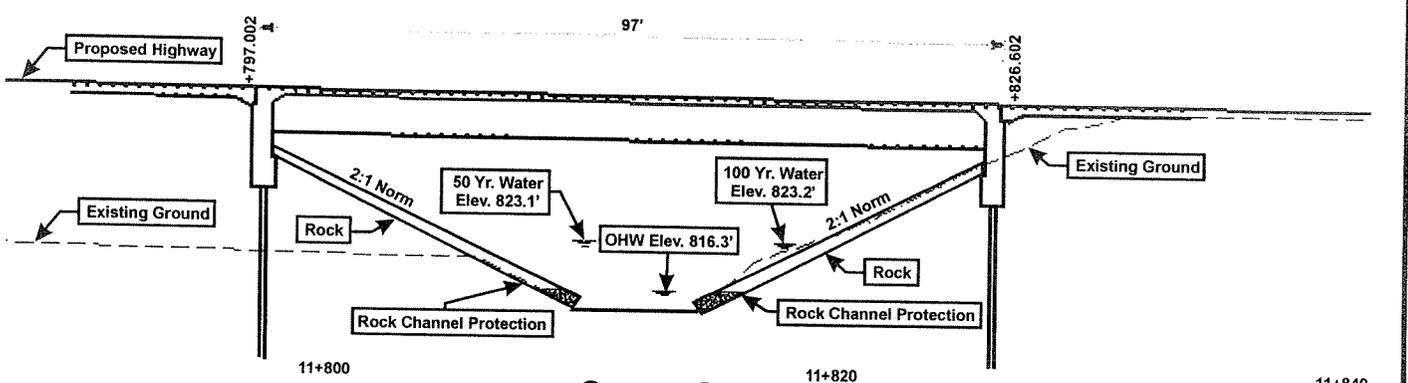
**Channel Disturbance (Below OHW):**

Length of Channel Disturbed:	120 lineal feet (Rock channel protection)
Excavation Below OHW:	93 cubic yards
Fill Below OHW:	107 cubic yards
Standard Roadfill:	0 cubic yards
Rock Channel Protection:	107 cubic yards

 = Approximate Disturbance due to Rock Channel Protection Below OHW



**Plan**

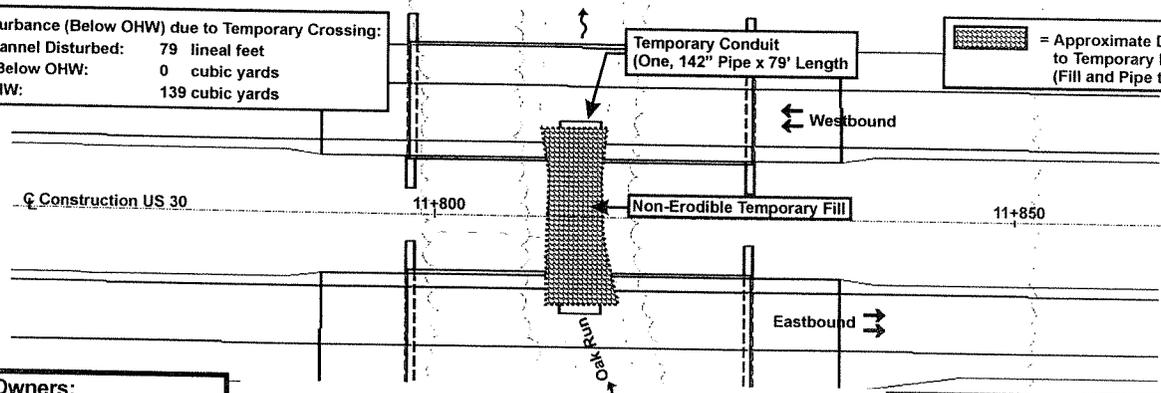


**Cross Section (eastbound lane)**

**Channel Disturbance (Below OHW) due to Temporary Crossing:**

Length of Channel Disturbed:	79 lineal feet
Excavation Below OHW:	0 cubic yards
Fill Below OHW:	139 cubic yards

 = Approximate Disturbance due to Temporary Fill Below OHW (Fill and Pipe to be Removed)



**Temporary Crossing Location (preliminary)**

**Property Owners:**

444	Jon E. and Melissa K. Zimmerman
445	Allen L. and Colene E. Beidelschies

Approximate Plan Scale: 1" = 145'  
 Approximate Cross Section Scale: 1" = 60'  
 Approximate Temporary Crossing Location Scale: 1" = 55'



**Exhibit 24  
 Site Plan for Proposed Activity  
 Site # 53 Oak Run**

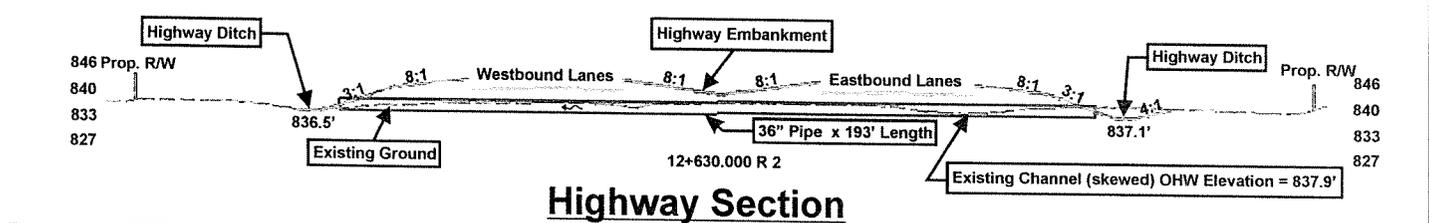
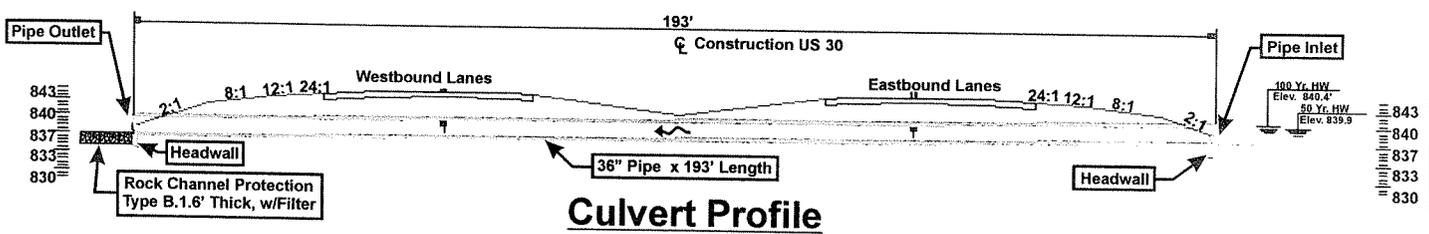
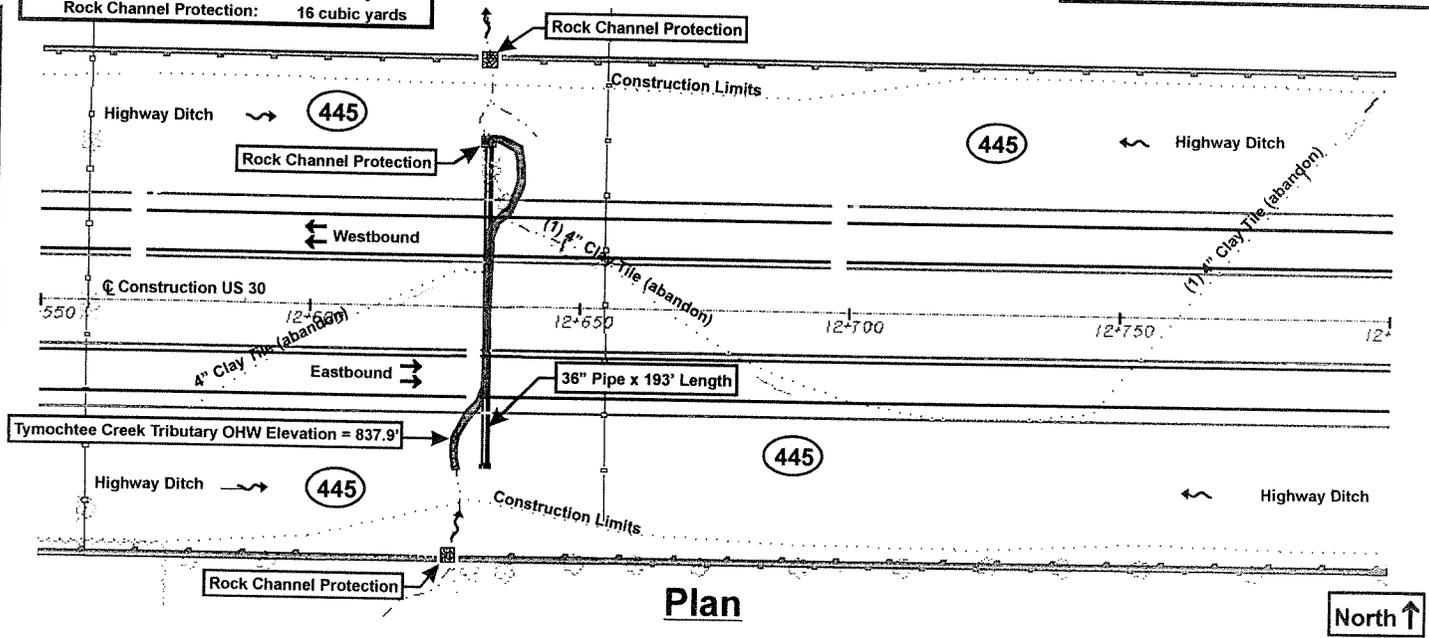
**U.S. Army Corps of Engineers 404 Permit and OEPA Section 401 Water Quality Certification Application**

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= Approximate Disturbance due to Excavation and/or Fill Below OHW  
 = Approximate Disturbance due to Rock Channel Protection Below OHW

**Channel Disturbance (Below OHW):**  
 Length of Channel Disturbed: 281 lineal feet  
 Excavation Below OHW: 18 cubic yards  
 Fill Below OHW: 119 cubic yards  
 Standard Roadfill: 103 cubic yards  
 Rock Channel Protection: 16 cubic yards



**Property Owners:**  
 (445) Allen L. and Colene E. Beidelschies

Approximate Plan Scale: 1" = 115'  
 Approximate Profile Scale: 1" = 35'  
 Approximate Cross Section Scale: 1" = 45'



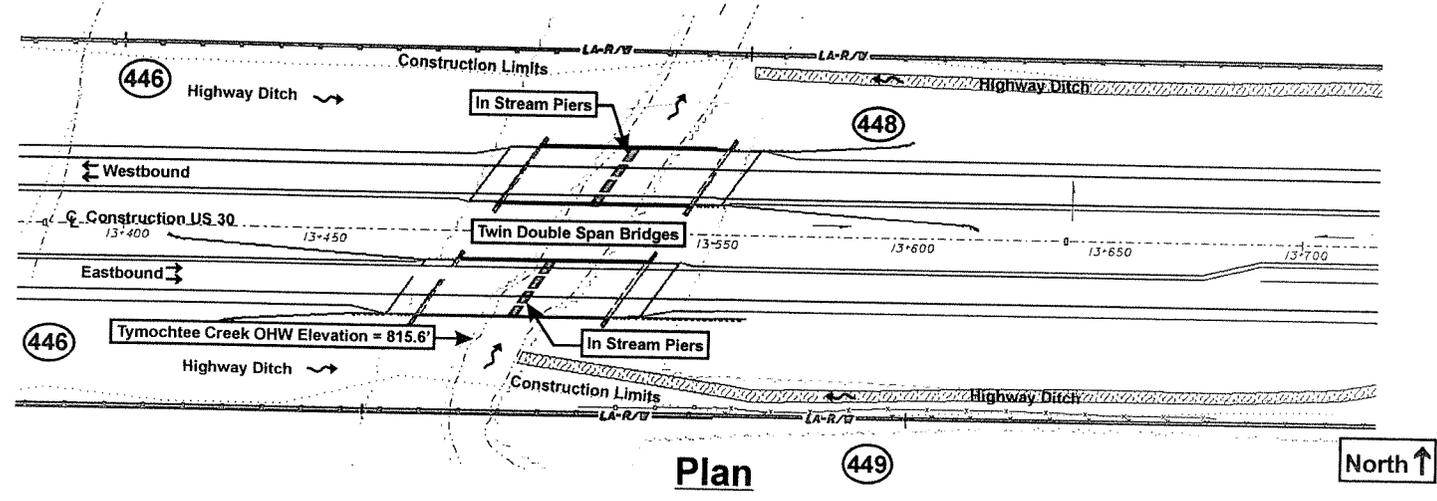
**Exhibit 25**  
**Site Plan for Proposed Activity**  
**Site # 54 Tymochee Creek Tributary**  
 US 30 Improvement, SR 235 to Upper Sa  
 Hancock & Wyandot Counties  
 HAN/WYA-30-3.00/0.00; PID 12420, 1

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 and OEPA Section 401  
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 Certification  
 Application

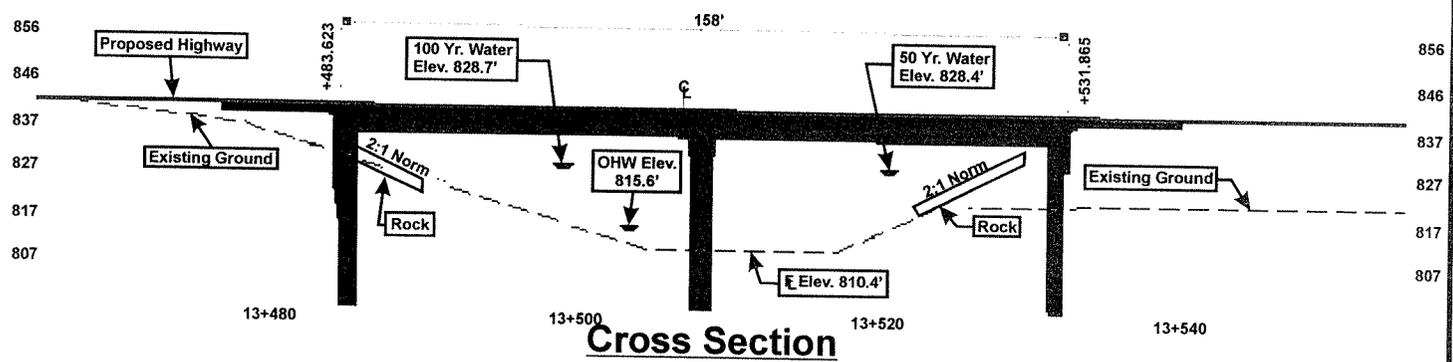
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Channel Disturbance (Below OHW):  
 Length of Channel Disturbed: 96 lineal feet (For pier placement)  
 Excavation Below OHW: 76 cubic yards  
 Fill Below OHW: 101 cubic yards  
 Rock Channel Protection: 0 cubic yards  
 Concrete (for piers): 101 cubic yard

 = Approximate Disturbance due to Fill (concrete) Below OHW



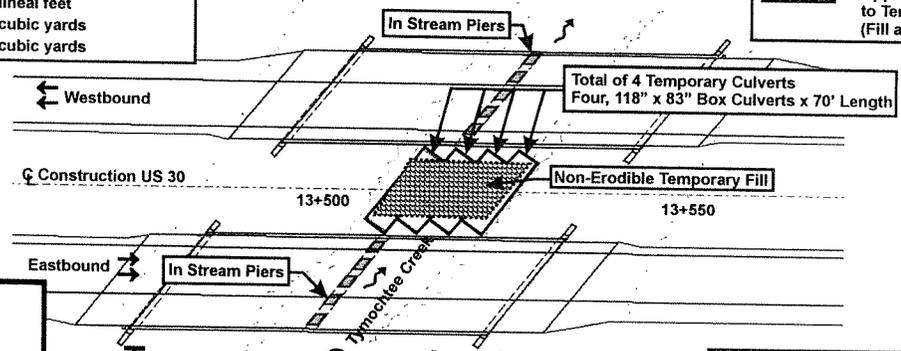
**Plan**



**Cross Section**

Channel Disturbance (Below OHW) due to Temporary Crossing:  
 Length of Channel Disturbed: 70 lineal feet  
 Excavation Below OHW: 64 cubic yards  
 Fill Below OHW: 152 cubic yards

 = Approximate Disturbance due to Temporary Fill Below OHW (Fill and Pipe to be Removed)



**Temporary Crossing Location (preliminary)**

**Property Owners:**  
 (446) Vicky A. Gamber  
 (448) Curtis W. and Elizabeth J., Gottfried  
 (449) Curt W. Gottfried

Approximate Plan Scale: 1" = 160'  
 Approximate Cross Section Scale: 1" = 40'  
 Approximate Temporary Crossing Detail Scale: 1" = 85'



**Exhibit 26  
 Site Plan for Proposed Activity  
 Site # 55 Tymochtee Creek**

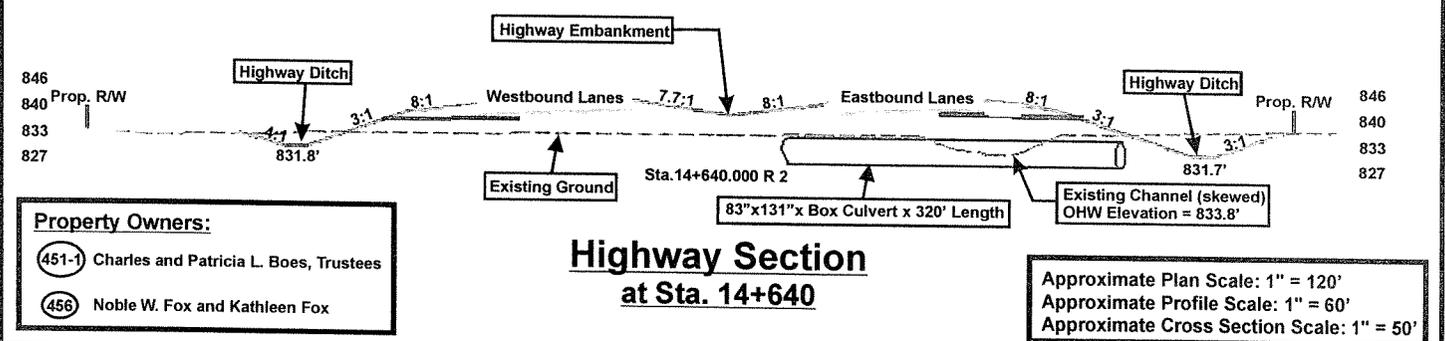
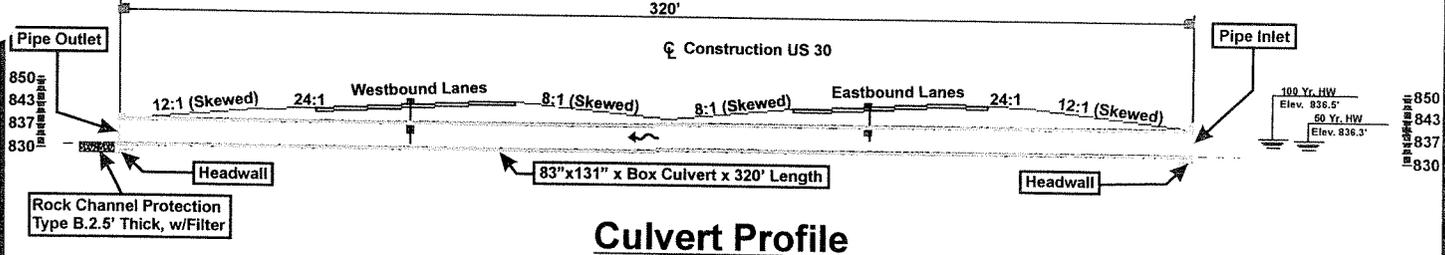
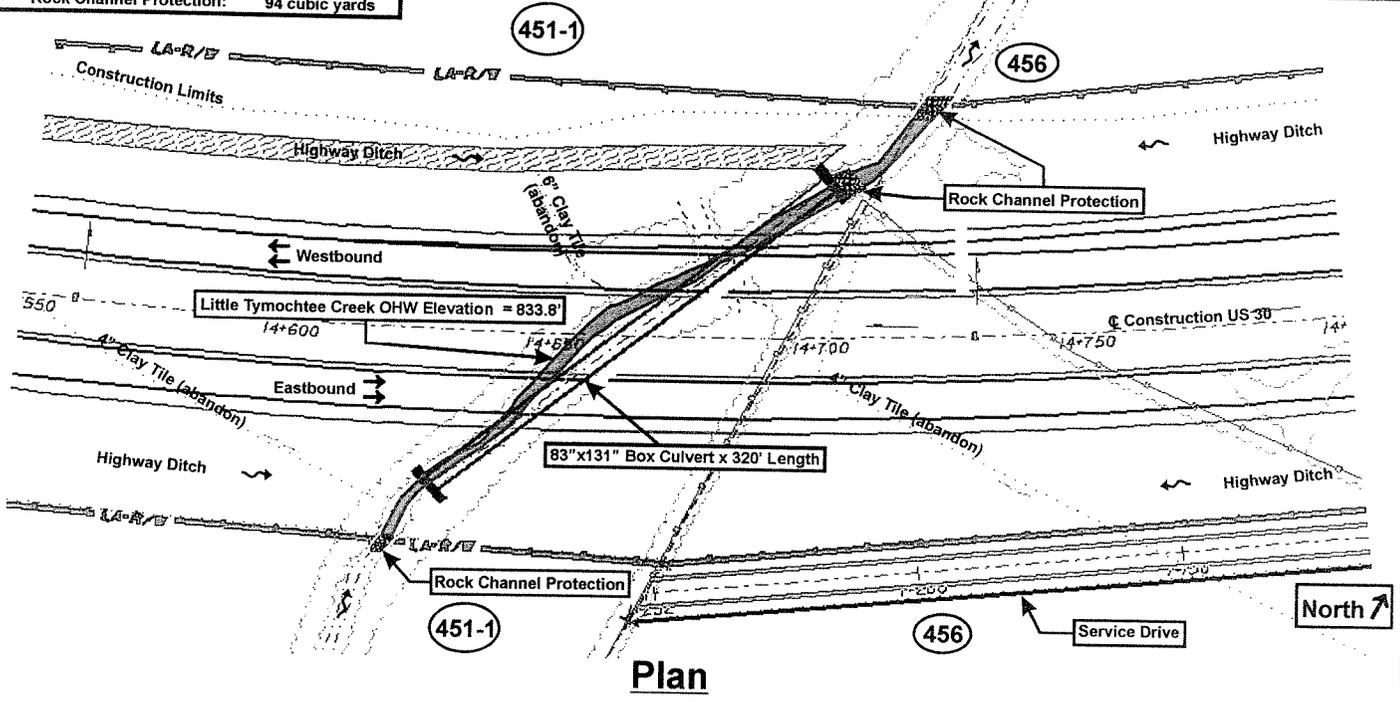
**U.S. Army Corps of Engineers 404 Permit and OEPA Section 401 Water Quality Certification Application**

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**Channel Disturbance (Below OHW):**  
 Length of Channel Disturbed: 456 lineal feet  
 Excavation Below OHW: 214 cubic yards  
 Fill Below OHW: 265 cubic yards  
 Standard Roadfill: 171 cubic yards  
 Rock Channel Protection: 94 cubic yards

 = Approximate Disturbance due to Excavation and/or Fill Below OHW  
 = Approximate Disturbance due to Rock Channel Protection Below OHW



**Property Owners:**  
 (451-1) Charles and Patricia L. Boes, Trustees  
 (456) Noble W. Fox and Kathleen Fox

Approximate Plan Scale: 1" = 120'  
 Approximate Profile Scale: 1" = 60'  
 Approximate Cross Section Scale: 1" = 50'



**Exhibit 27**  
**Site Plan for Proposed Activity**  
**Site # 56 Little Tymochtee Creek**

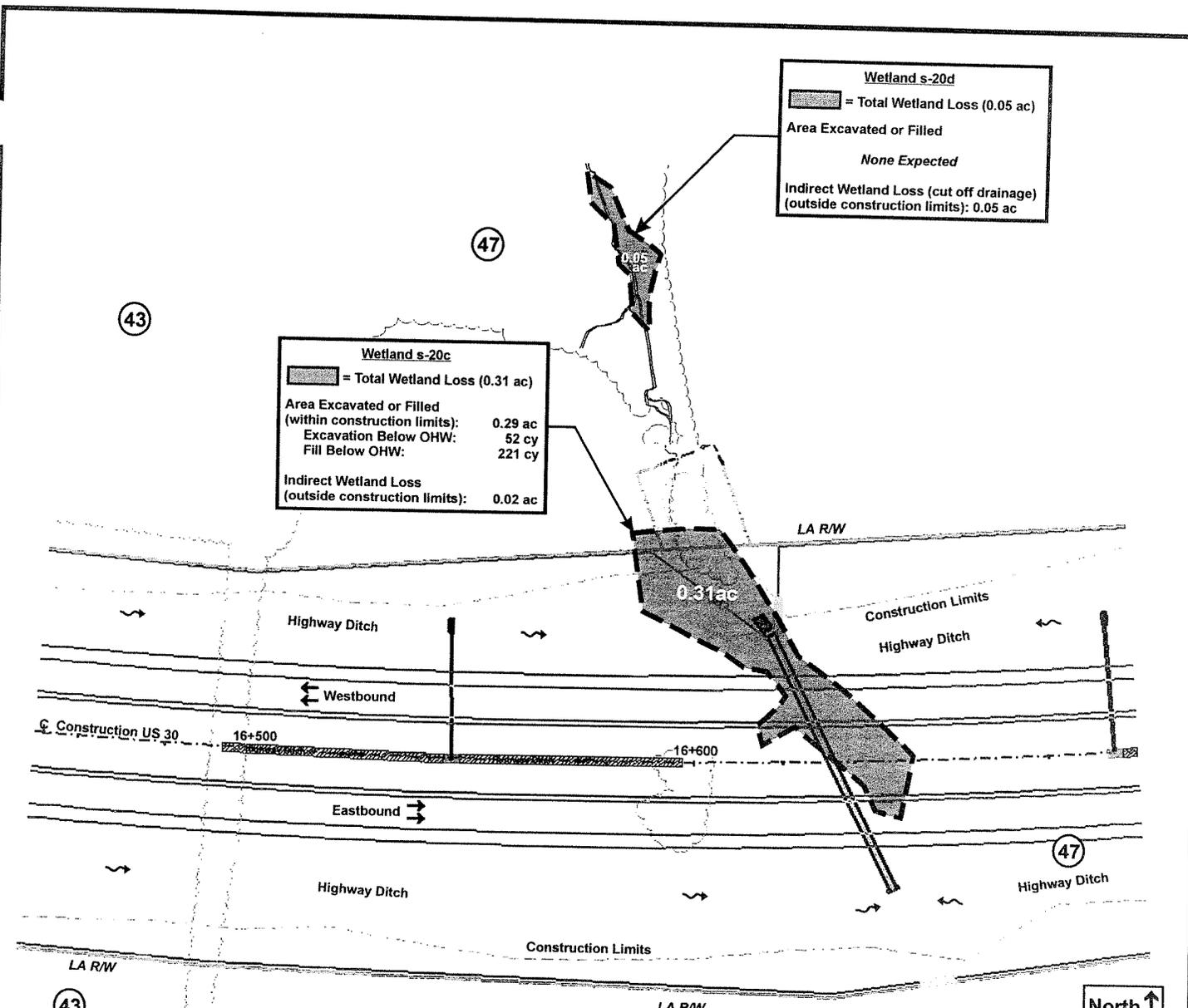
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US 30 Improvement, SR 235 to Upper Sa Hancock & Wyandot Counties HAN/WYA-30-3.00/0.00; PID 12420, 1

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**Wetland s-20d**  
 [Hatched Box] = Total Wetland Loss (0.05 ac)  
 Area Excavated or Filled  
 None Expected  
 Indirect Wetland Loss (cut off drainage)  
 (outside construction limits): 0.05 ac

**Wetland s-20c**  
 [Hatched Box] = Total Wetland Loss (0.31 ac)  
 Area Excavated or Filled  
 (within construction limits): 0.29 ac  
 Excavation Below OHW: 52 cy  
 Fill Below OHW: 221 cy  
 Indirect Wetland Loss  
 (outside construction limits): 0.02 ac



**Plan**

**Property Owners:**  
 (43) Claude H. Neiswander, Trust Agreement  
 (47) Dick A. and Dorothy A. Powell

Approximate Plan Scale: 1" = 125'

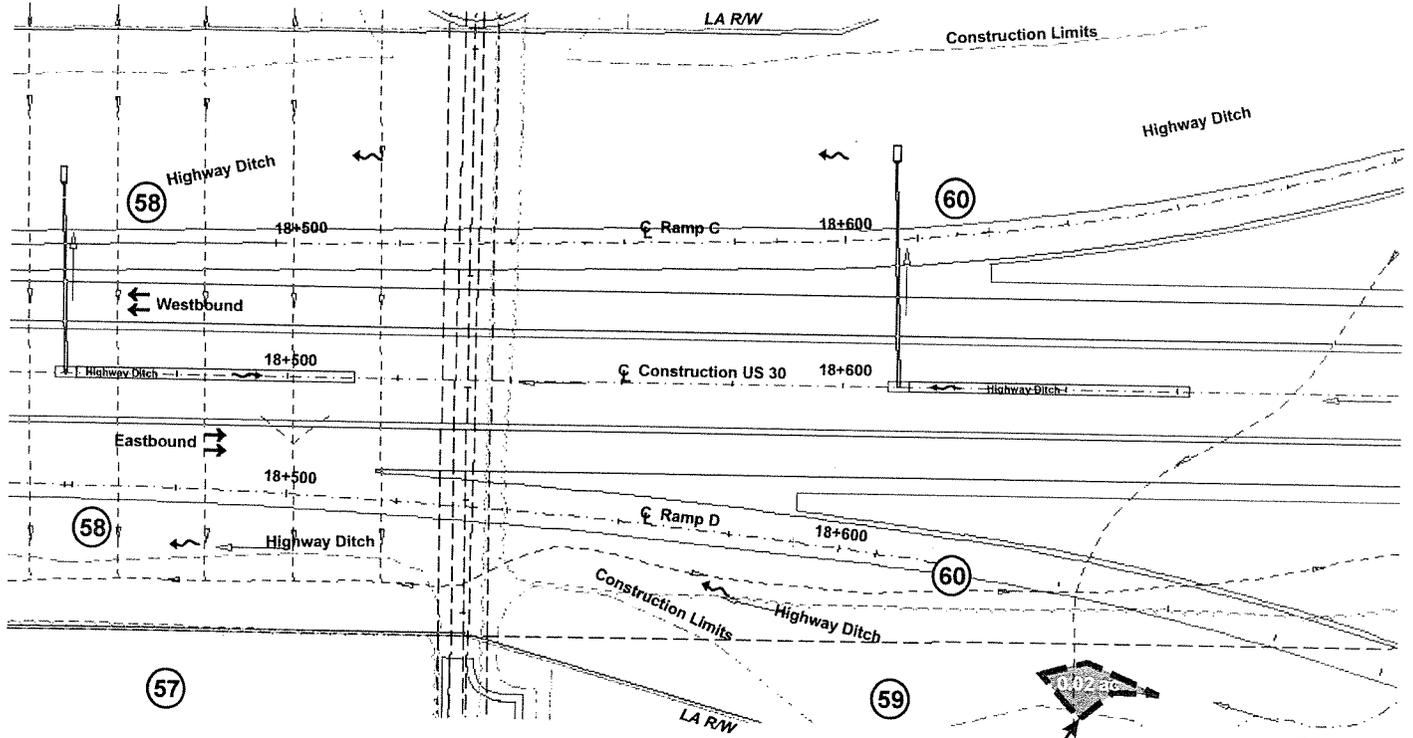


**Exhibit 28**  
**Site Plan for Proposed Activity**  
**Wetlands s-20c and d**

US 30 Improvement, SR 235 to Upper San  
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Wetland s-23e	
	= Total Wetland Loss (0.02 ac)
Area Excavated or Filled (within construction limits): 0.02 ac	
Excavation Below OHW: 13 cy	
Fill Below OHW: 0 cy	

**Plan**

Property Owners:	
57	Arden LE Woods, ET AL
58	Ray D. and Waneta L. Worstine
59	Margaret M. Riggs and Martha Hodge
60	Gladys Garlinger

Approximate Plan Scale: 1" = 120'

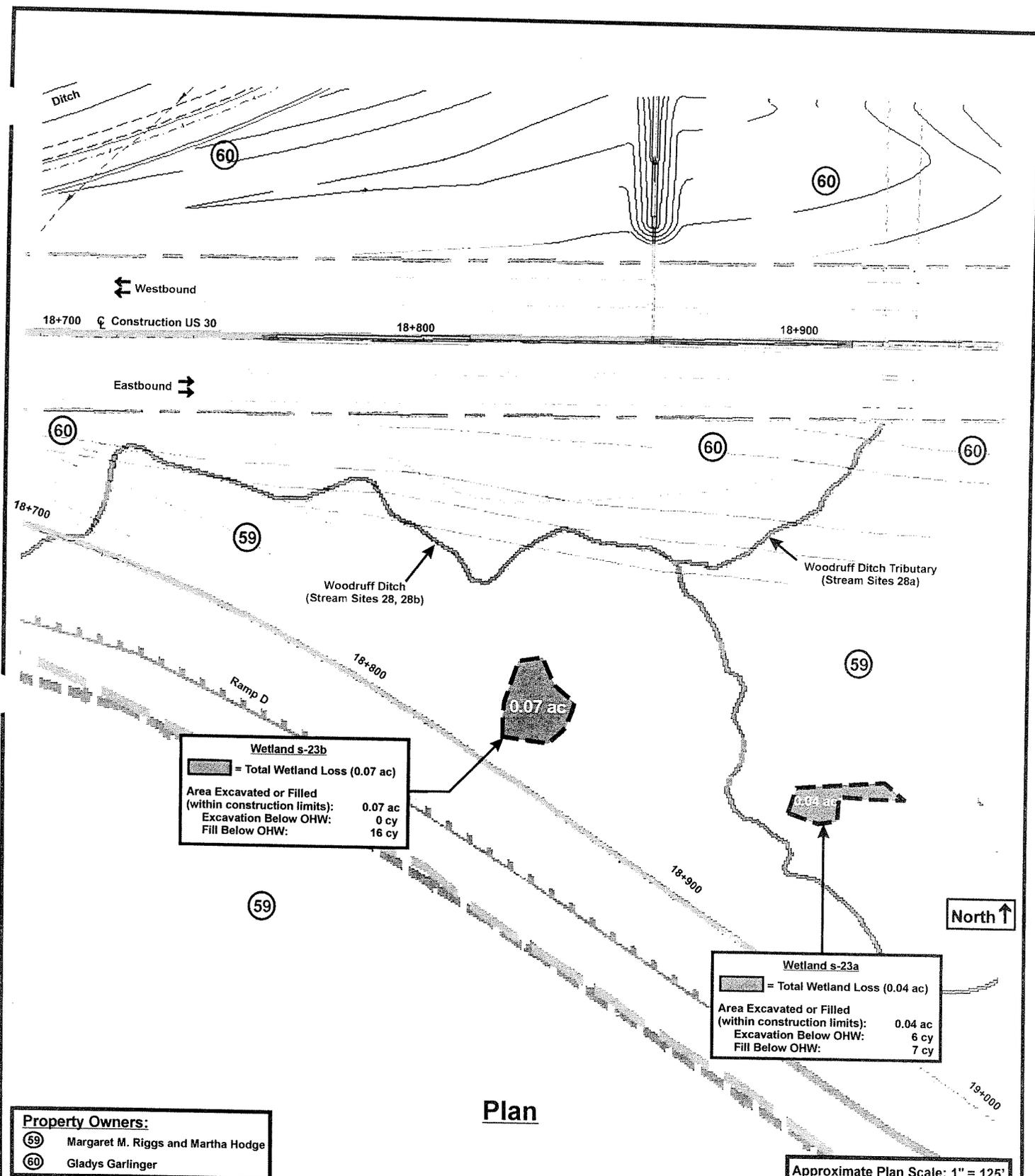


**Exhibit 29  
Site Plan for Proposed Activity  
Wetland s-23e**

U.S. Army Corps of Engineers 404 Permit and OEPA Section 401 Water Quality Certification

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Hancock & Wyandot Counties  
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**Plan**

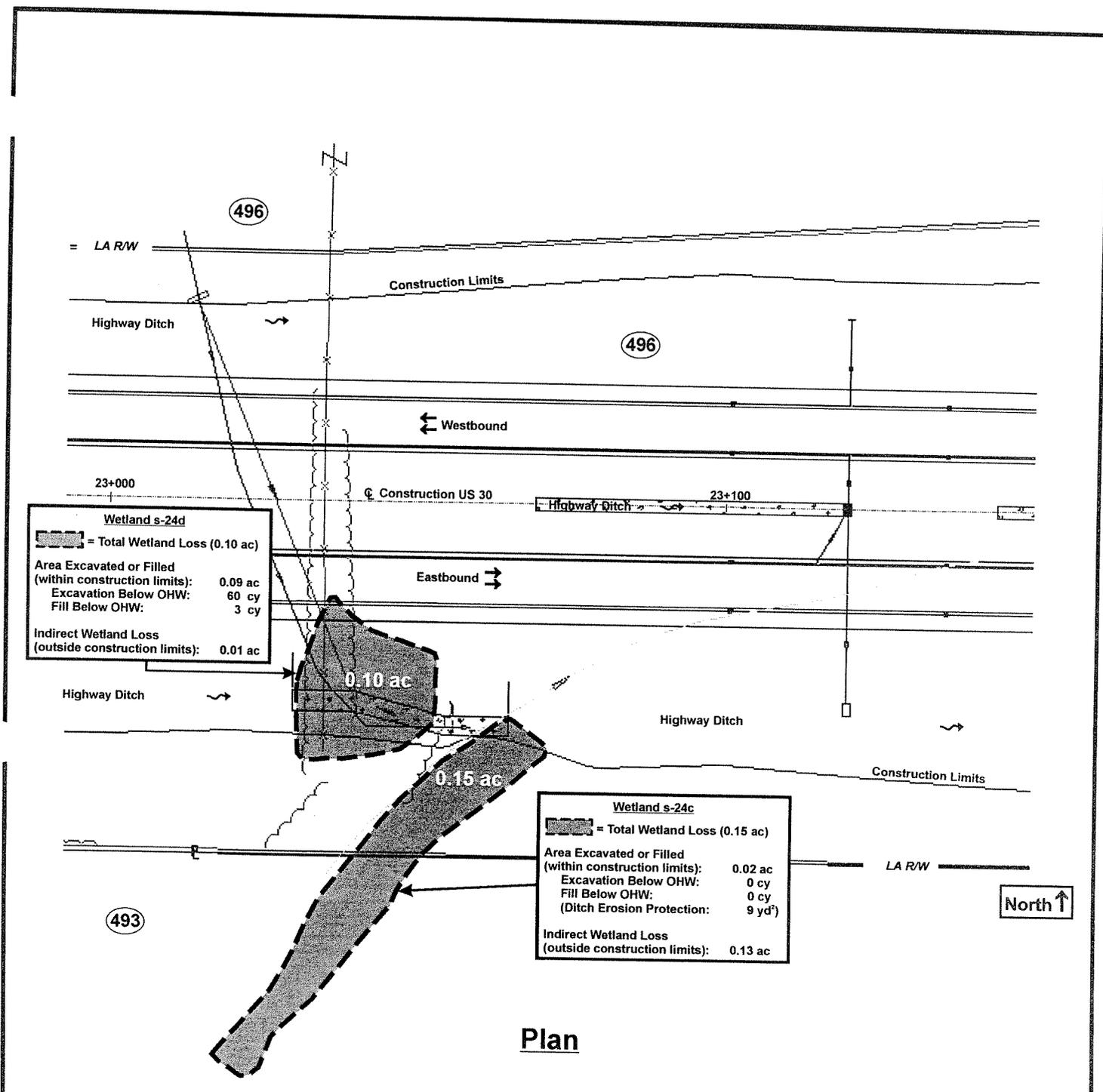


**Exhibit 30  
 Site Plan for Proposed Activity  
 Wetland s-23a and b**

US 30 Improvement, SR 235 to Upper Sa  
 Hancock & Wyandot Counties  
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Wetland s-24d	
[Hatched Area] = Total Wetland Loss (0.10 ac)	
Area Excavated or Filled (within construction limits): 0.09 ac	
Excavation Below OHW:	60 cy
Fill Below OHW:	3 cy
Indirect Wetland Loss (outside construction limits): 0.01 ac	

Wetland s-24c	
[Hatched Area] = Total Wetland Loss (0.15 ac)	
Area Excavated or Filled (within construction limits): 0.02 ac	
Excavation Below OHW:	0 cy
Fill Below OHW:	0 cy
(Ditch Erosion Protection:	9 yd <sup>2</sup> )
Indirect Wetland Loss (outside construction limits): 0.13 ac	

**Plan**

Property Owners:	
(493)	Vermillion et al.
(496)	William E. and Marilyn J. Crabill

Approximate Plan Scale: 1" = 75'

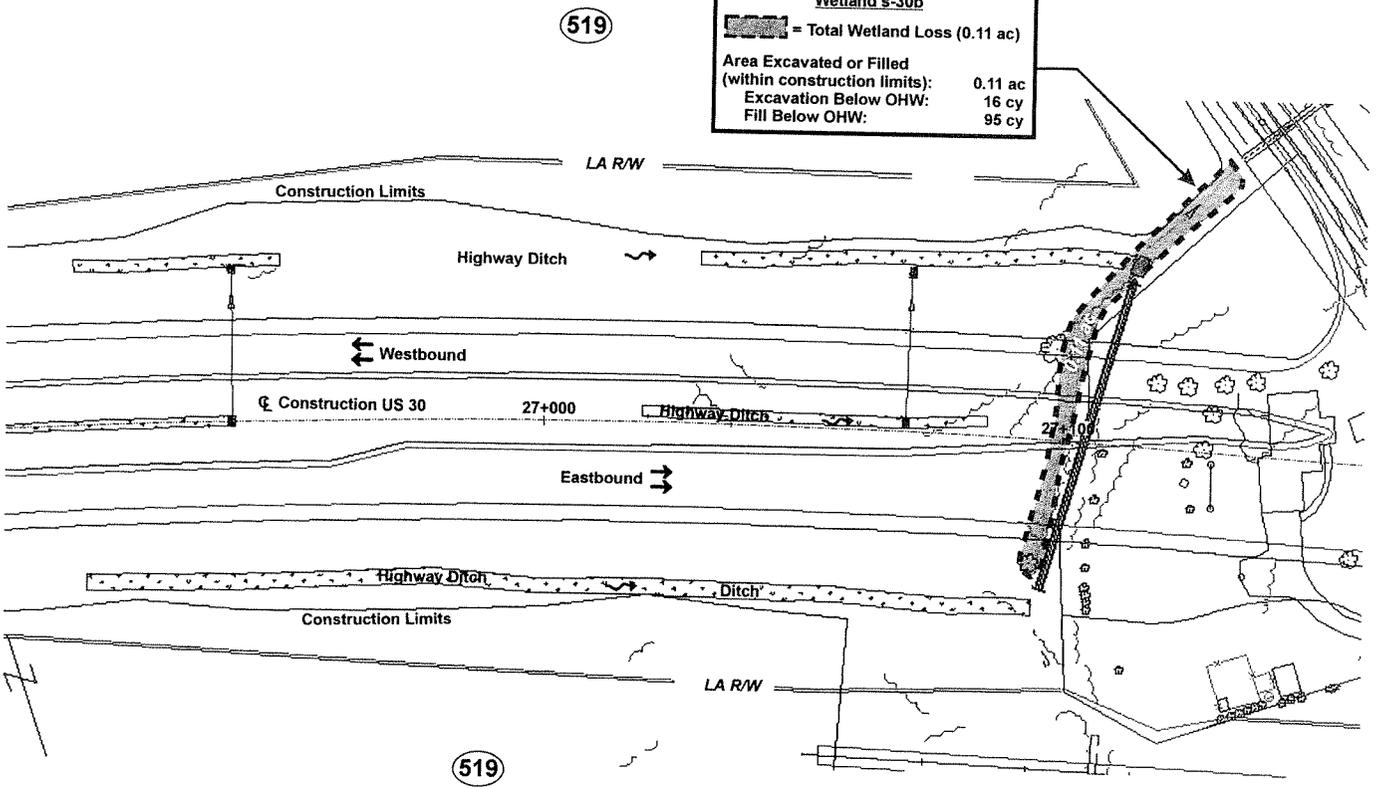


**Exhibit 31**  
**Site Plan for Proposed Activity**  
**Wetlands s-24c and d**

US 30 Improvement, SR 235 to Upper Sa  
 Hancock & Wyandot Counties  
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**Wetland s-30b**  
 [Hatched Area] = Total Wetland Loss (0.11 ac)  
 Area Excavated or Filled (within construction limits): 0.11 ac  
 Excavation Below OHW: 16 cy  
 Fill Below OHW: 95 cy



**Plan**



**Property Owners:**  
 (519) Evelyn V. Clinger, Trustee

Approximate Plan Scale: 1" = 120'



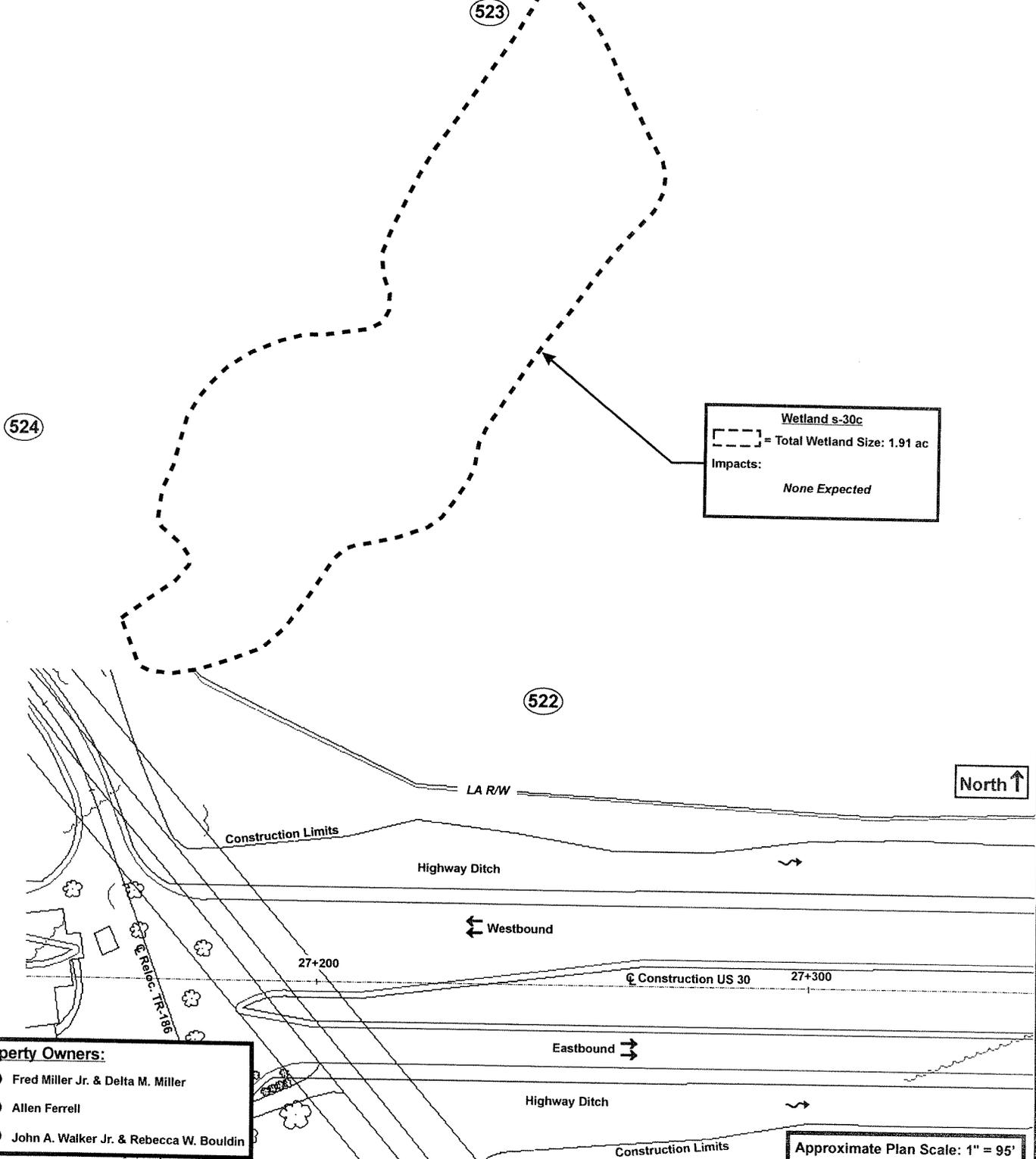
**Exhibit 32  
 Site Plan for Proposed Activity  
 Wetland s-30b**

US 30 Improvement, SR 235 to Upper Sa  
 Hancock & Wyandot Counties  
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**Plan**



**Wetland s-30c**  
 [Dashed Line] = Total Wetland Size: 1.91 ac  
 Impacts:  
 None Expected

**Property Owners:**

522	Fred Miller Jr. & Delta M. Miller
523	Allen Ferrell
524	John A. Walker Jr. & Rebecca W. Bouldin

Approximate Plan Scale: 1" = 95'

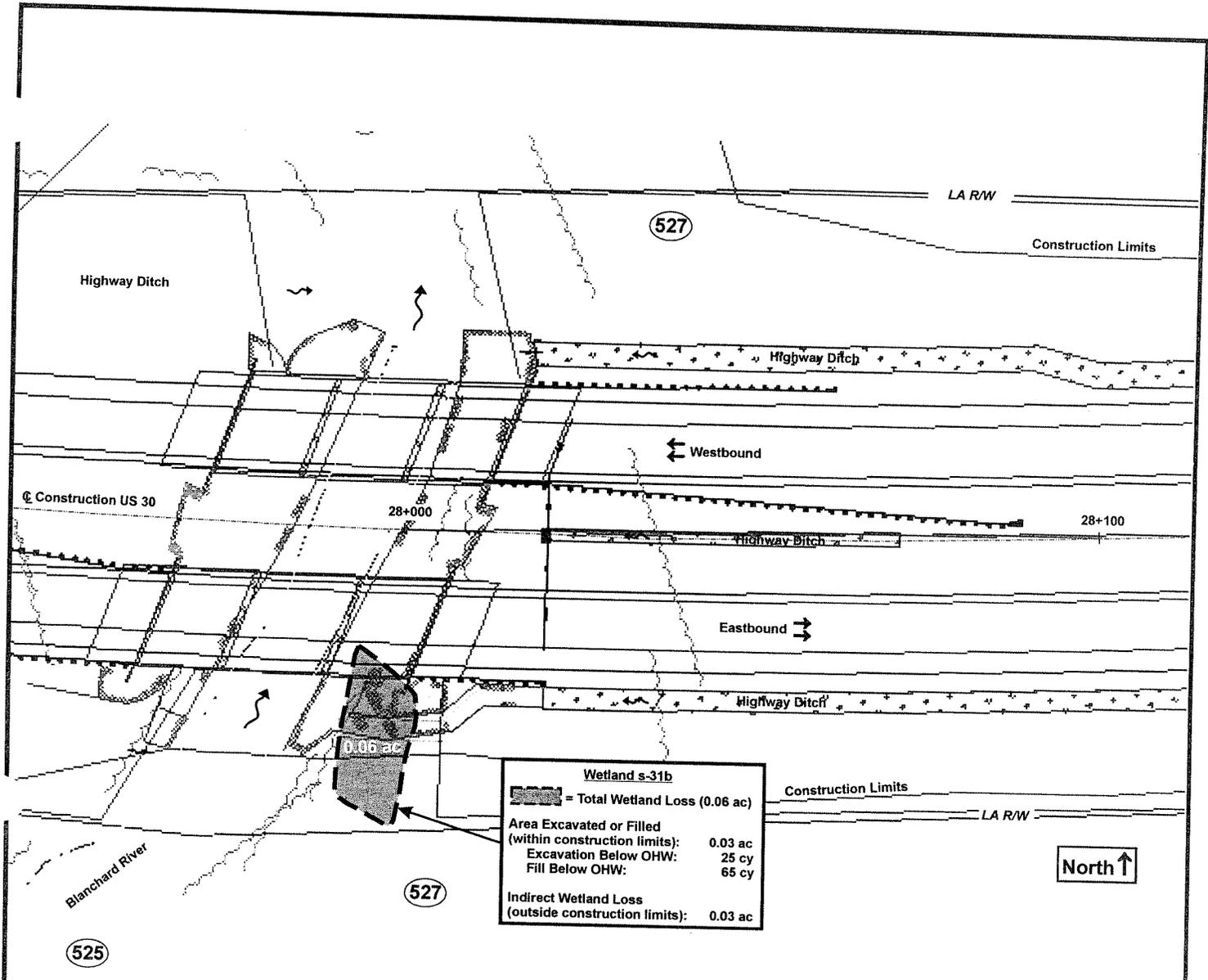


**Exhibit 33  
 Site Plan for Proposed Activity  
 Wetland s-30c**

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**Plan**

**Property Owners:**

- (525) Judith Ward-Chamberlain
- (527) Lauren N. Bash, et al.



**Exhibit 34  
 Site Plan for Proposed Activity  
 Wetland s-31b**

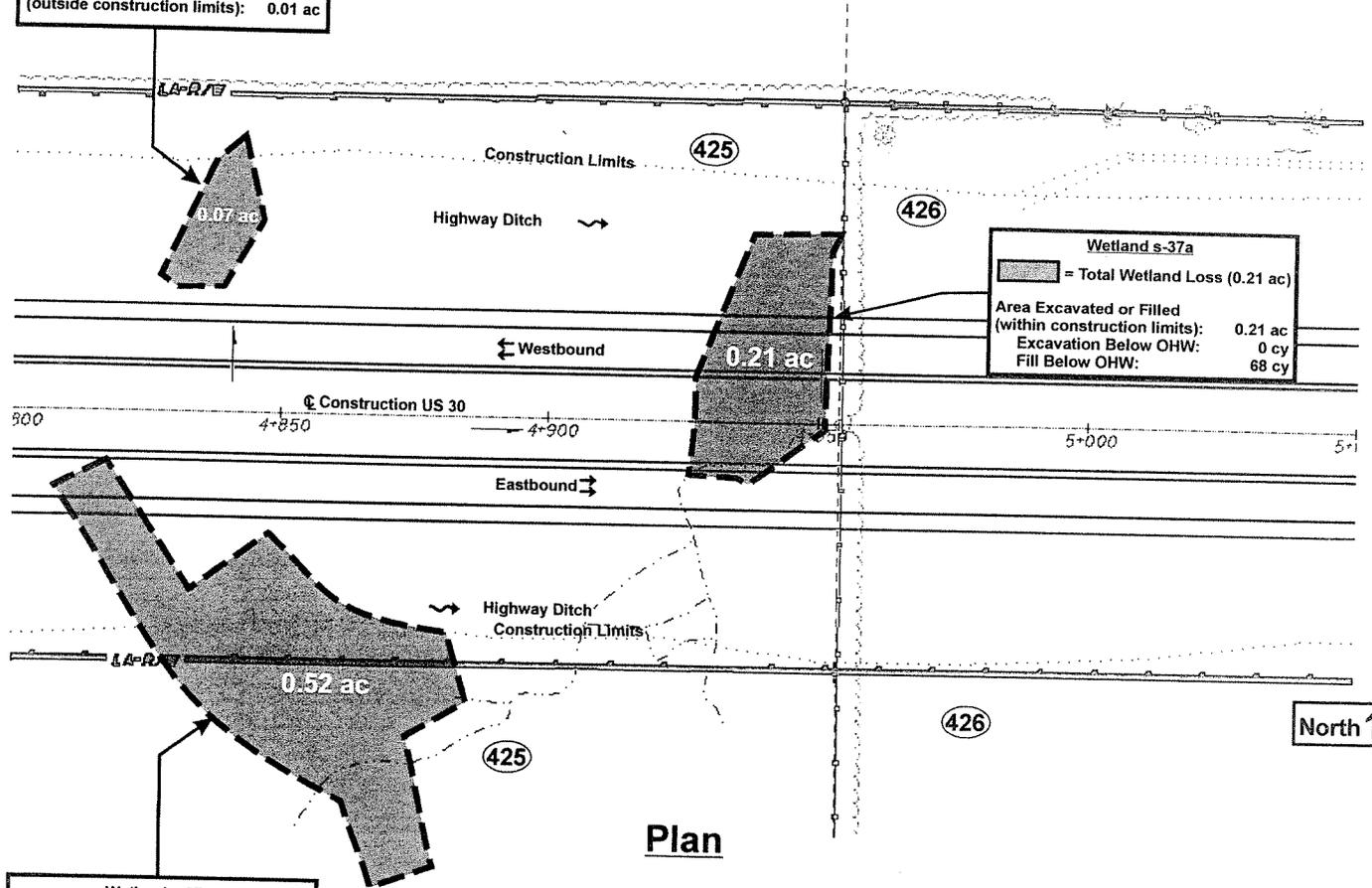
US 30 Improvement, SR 235 to Upper S  
 Hancock & Wyandot Counties  
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**Wetland s-37b**  
 [Shaded Area] = Total Wetland Loss (0.07 ac)  
 Area Excavated or Filled (within construction limits): 0.06 ac  
 Excavation Below OHW: 92 cy  
 Fill Below OHW: 2 cy  
 Indirect Wetland Loss (outside construction limits): 0.01 ac

**Wetland s-37a**  
 [Shaded Area] = Total Wetland Loss (0.21 ac)  
 Area Excavated or Filled (within construction limits): 0.21 ac  
 Excavation Below OHW: 0 cy  
 Fill Below OHW: 68 cy



**Plan**

**Wetland s-37c**  
 [Shaded Area] = Total Wetland Loss (0.52 ac)  
 Area Excavated or Filled (within construction limits): 0.17 ac  
 Excavation Below OHW: 281 cy  
 Fill Below OHW: 19 cy  
 Indirect Wetland Loss (outside construction limits): 0.35 ac

**Property Owners:**  
 (425) Eugene H. and Carol Sue Fomey  
 (426) Bonnie D. Rinker

Approximate Plan Scale: 1" = 115'

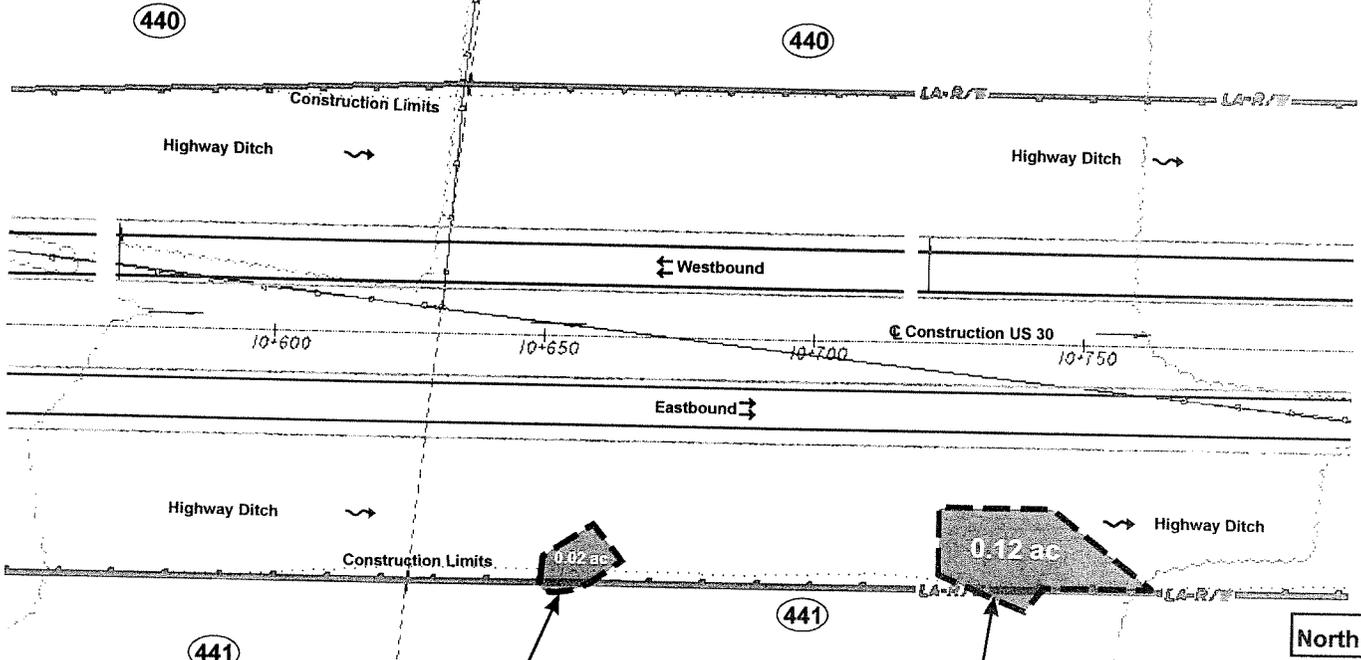


**Exhibit 35  
 Site Plan for Proposed Activity  
 Wetland s-37a, b, and c**

*US 30 Improvement, SR 235 to Upper Sal  
 Hancock & Wyandot Counties,  
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**Plan**

Wetland s-44b	
	= Total Wetland Loss (0.02 ac)
Area Excavated or Filled (within construction limits):	0.01 ac
Excavation Below OHW:	52 cy
Fill Below OHW:	0 cy
Indirect Wetland Loss (outside construction limits):	0.01 ac

Wetland s-44a	
	= Total Wetland Loss (0.12 ac)
Area Excavated or Filled (within construction limits):	0.10 ac
Excavation Below OHW:	777 cy
Fill Below OHW:	0 cy
Indirect Wetland Loss (outside construction limits):	0.02 ac

Property Owners:	
440	James L. and David W. Fox
441	Kenneth L. and Mary A. Reidlinger, Trustees

Approximate Plan Scale: 1" = 115'



**Exhibit 36  
Site Plan for Proposed Activity  
Wetland s-44a and b**

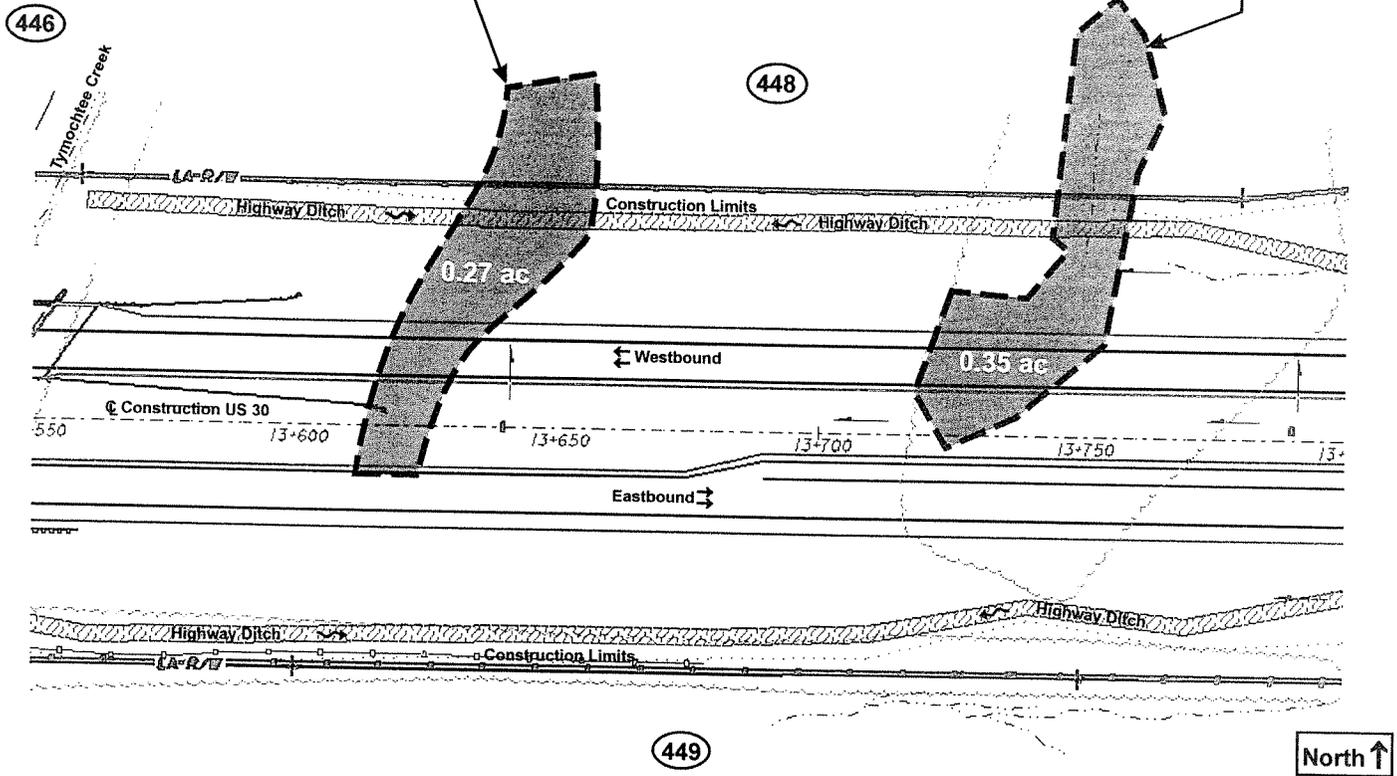
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Wetland s-46c	
	= Total Wetland Loss (0.27 ac)
Area Excavated or Filled (within construction limits): 0.19 ac	
Excavation Below OHW:	8 cy
Fill Below OHW:	34 cy
Indirect Wetland Loss (outside construction limits): 0.08 ac	

Wetland s-46d	
	= Total Wetland Loss (0.35 ac)
Area Excavated or Filled (within construction limits): 0.22 ac	
Excavation Below OHW:	0 cy
Fill Below OHW:	60 cy
Indirect Wetland Loss (outside construction limits): 0.13 ac	



Property Owners:	
	Vicky A. Gamber
	Curtis W. And Elizabeth Gottfried
	Curtis W. Gottfried

**Plan**

Approximate Plan Scale: 1" = 120'



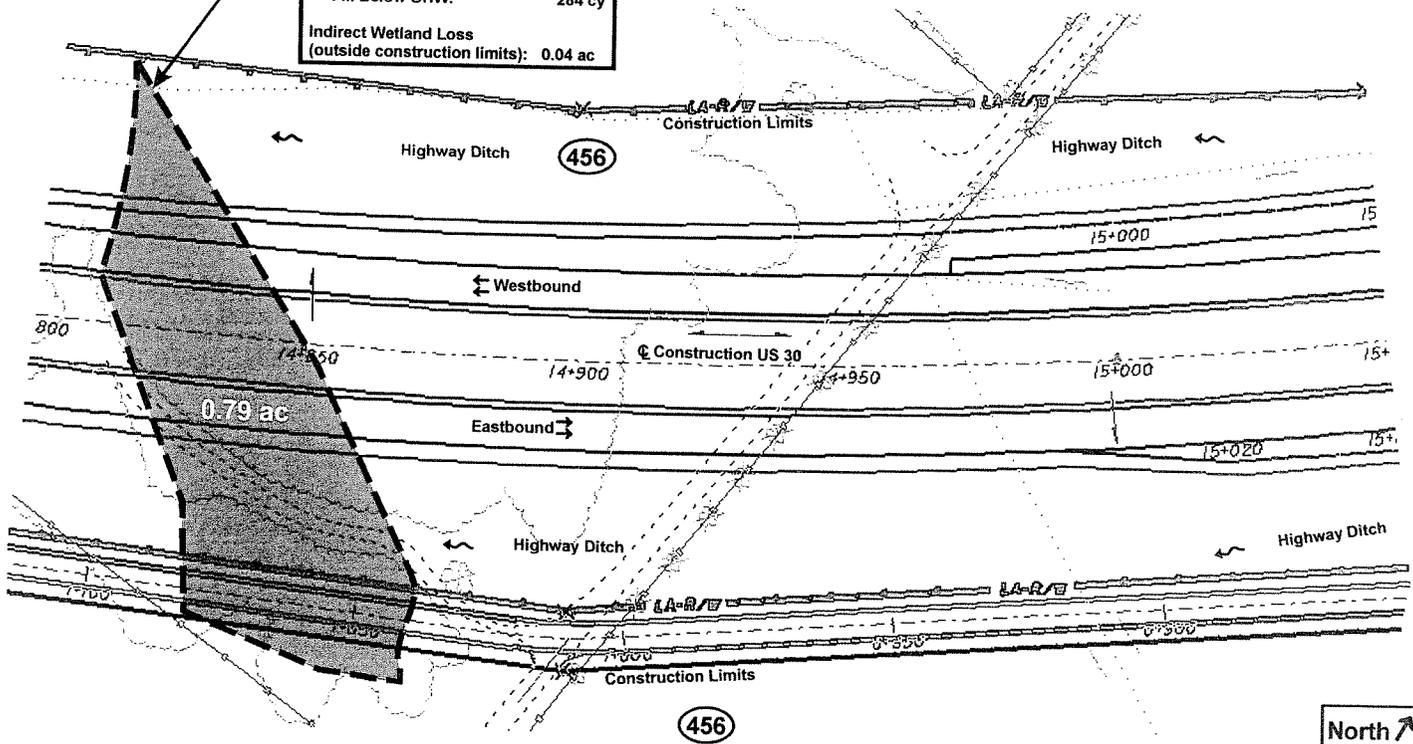
**Exhibit 37**  
**Site Plan for Proposed Activity**  
**Wetland s-46 c and d**

US 30 Improvement, SR 235 to Upper S  
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**Wetland s-48a**  
 [Shaded Area] = Total Wetland Loss (0.79 ac)  
 Area Excavated or Filled  
 (within construction limits): 0.75 ac  
 Excavation Below OHW: 369 cy  
 Fill Below OHW: 284 cy  
 Indirect Wetland Loss  
 (outside construction limits): 0.04 ac



**Property Owners:**  
 (456) Noble W. And Kathleen Fox

**Plan**

Approximate Plan Scale: 1" = 115'

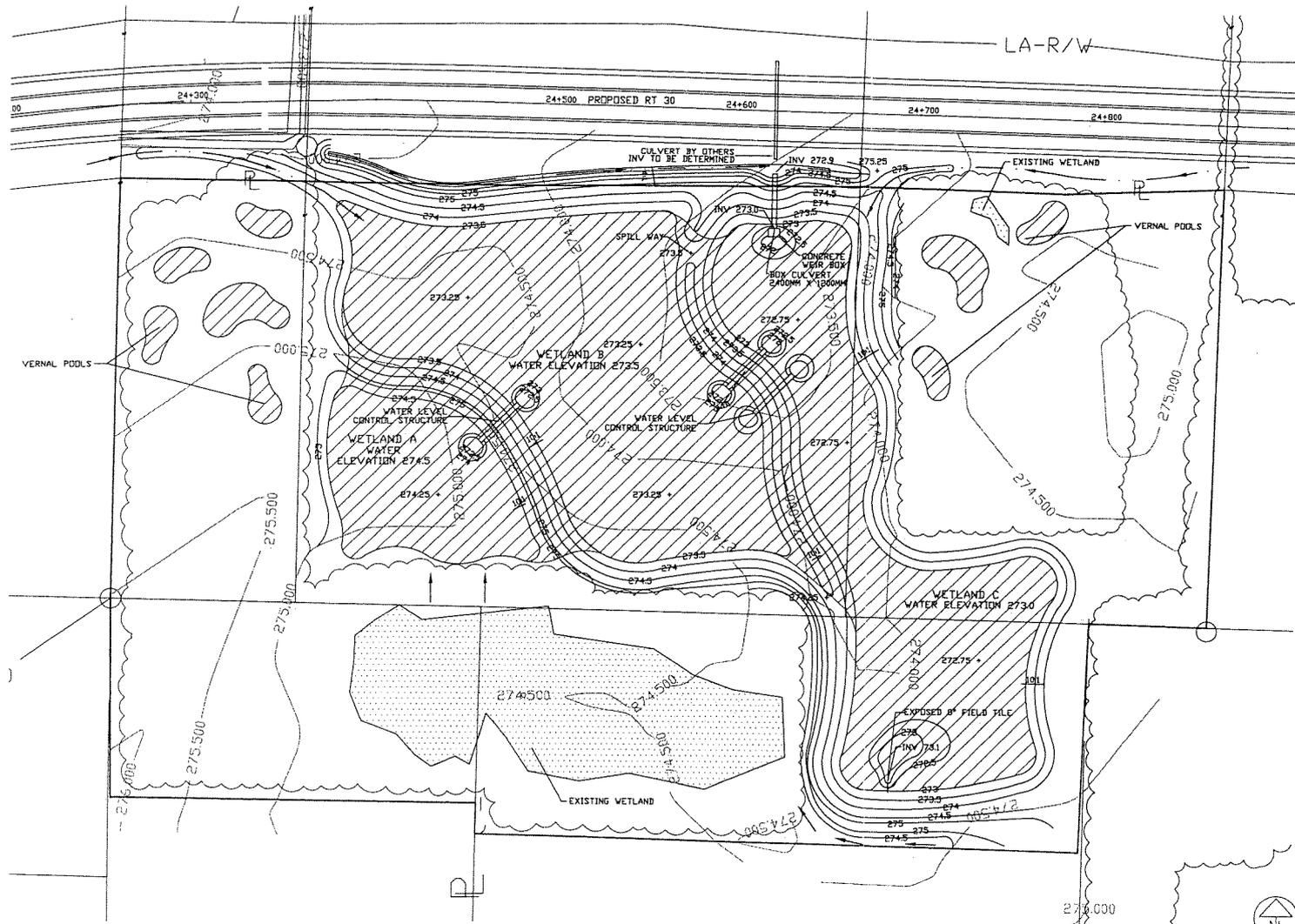


**Exhibit 38  
 Site Plan for Proposed Activity  
 Wetland s-48a**

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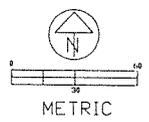


**SITE DATA**

TOTAL SITE	(51.2 AC) 20.7 HECTARES
FORESTED AREA	(27.8 AC) 11.3 HECTARES
OPEN FIELD AREA	(23.4 AC) 9.5 HECTARES
EXISTING WETLANDS	(4 AC) 1.6 HECTARES
REPLACEMENT WETLANDS	(16.5 AC) 6.7 HECTARES
VERNAL POOLS	(1 AC) 0.4 HECTARES
UPLAND BUFFER	(31.4 AC) 12.7 HECTARES

**URS**

DATE 11-19-03, REV. 12-3-03, 1-8-04, 1-14-04



**FIGURE 5**  
**HANWYA 30**  
**PRELIMINARY GRADING PLAN**  
 JOB NO. 13808868

*Proposed Ripley Run Pooled Mitigation Area*

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