

Logan

7

C.R. #39

June 23, 1980

Byrd Finley, Jr., Bur. Environmental Services  
Delbert L. Leistner, District Deputy Director  
Environmental Assessment, P.F. No. LOG017

R. A. Allen

Burley J. Sigman, Planning  
Engineer

Attached for your further processing are six copies of the Environmental Assessment for a bridge replacement project in Logan County.

One copy is for the U.S. Fish & Wildlife Service as they commented on the Stream Data Form.

*BJS*

BJS:rba

Attach.

cc: File

Sigman

Kurtz ✓

**RECEIVED**

**JUN 26 1980**

**LOGAN COUNTY  
ENGINEER**

ENVIRONMENTAL ASSESSMENT  
SHORT FORM FOR DETERMINING NONMAJOR ACTION

Date June 23, 1980

County, Route, Section Logan-CR 39-4.98 PF LOG017

Federal Number BRZ-4604(1) State Job Number 07126(0)

TDP Category II Project Length 1100'+ Est. Cost \$150,000.00

Termini 2.1 miles south of Belle Center

Type Improvement Replacement of a bridge over an unnamed fork of the Great  
Miami River

<u>Est. Traffic Data</u>	<u>Year</u>	<u>ADT</u>	<u>% Trucks</u>	<u>Operating Speed</u>
Present Day	<u>1980</u>	<u>475</u>	<u>5%</u>	<u>30 MPH</u>
Opening Day (Build)	<u>        </u>	<u>        </u>	<u>        </u>	<u>        </u>
Opening Day (No Build)	<u>        </u>	<u>        </u>	<u>        </u>	<u>        </u>
Design Year (Build)	<u>2000</u>	<u>775</u>	<u>5%</u>	<u>30 MPH</u>
Design Year (No Build)	<u>        </u>	<u>        </u>	<u>        </u>	<u>        </u>

1. Existing Facility Data

No. Lanes 2 Pavement Width 18' R/W Width 50'

Type Access Control None

*Deficiencies of Existing Facility:*

The existing structure is a narrow (15.8') Pratt truss, with a load reduction of 80%, and this structure is in poor condition.

*Status of Any Improvements to Adjoining Sections:*

There are no improvements planned to the adjoining sections, at this time.

2. Proposed Facility Data (Based on preferred alternative)

No. Lanes 2 Pavement Width 20' R/W Width 100'+

Approx. Amount New R/W Required (Acres, Sq. Ft., etc.) 0.9 Acre

No., Size & Type of R/W Takes (Include Preliminary R/W Plan):

There are three property owners from which strip right of way is required to make the minor changes in alignment and profile. This right of way will be acquired by the County. (See attached right of way plan.)

Relocation Assistance: No X Yes \_\_\_\_\_ Explain:

*Benefits of Proposal:*

This proposal will allow legal loads, and provide the width necessary to allow modern farming equipment to use this structure.

*Consistency with Planning & Regional/Community Goals & Objectives:*

This project is consistent with the goals and objectives of the area, that is, a safe and efficient highway system.

*Major Design Features (General Vertical & Horizontal Alignment, Location of Interchanges, Separations, At-Grade Interchanges, River/Stream Crossings, etc.):*

This structure will be a three span continuous concrete superstructure on a capped pile substructure. There will be minor profile and alignment corrections made. This structure is over an unnamed fork of the Great Miami River. (See attached site plan.)

*Status of Plan Development (Plan Reviews, R/W, etc.):*

At this time plans are 95% complete. The plans have been submitted to the Bridge Bureau for review.

3. Summary of Early Coordination (A-95, Early Coordination, Other Agencies, etc.):

Early Coordination was completed September 25, 1979, a copy of all replies is attached. A summary of all major comments is as follows:

Ohio Department of Natural Resources: No adverse impacts and no endangered species.

Ohio Historic Preservation Office: No historic sites, no eligible historic sites and no archaeological sites.

U.S. Fish & Wildlife Service: No significant losses to fish and wildlife resources.

U.S. Department of Agriculture, Soil Conservation Service: No major comments.

U.S. Department of Interior, Heritage Conservation & Recreation Service: No significant adverse impacts on the environmental resources.

This project has been coordinated for the stream work and there are no objections.

4. General Description of Surrounding Area:

*Present and Proposed Land Use:*

The present and proposed land use in the immediate area is predominately agricultural.

*Character of Terrain:*

The surrounding terrain is basically flat.

*Natural Features (Lakes, Streams, Forests, Wetlands, etc.):*

The stream is an unnamed branch of the South Fork of the Great Miami River.

It has been determined that the project is not located in or adjacent to wetlands as defined in Presidential Executive Order 11990.

*Cultural Features (Parks, Recreation Areas, Historic Sites, Landmarks, Institutions, etc.):*

There are no parks, recreation areas, historic sites, etc., in the surrounding area of the project.

*Character of Surrounding Neighborhoods (Minorities, Low Income, Ethnic, etc.):*

There are no known minorities, low income, ethnic or other groups in the surrounding area of the project.

*Public Facilities and Services (Religious, Health, Educational Facilities, Public Utilities, Public Transportation, etc.):*

The public facilities and services in the area are those typical to a rural area.

5. Summary of Alternatives (Consider No Build as a minimum):

The "No Build" alternative would result in perpetuating the deficient structure. Minor design changes in alignment and profile were the only other alternatives investigated.

6. Summary of Input from Publics (Public Meetings, Oral or Written Contact, Controversy, etc.):

A newspaper article publicized the proposal by the County Engineer to replace the structure. No comments on the article were received.

The County Commissioners have discussed this project during a regular meeting.

The County Engineer has met with the adjacent property owners.

7. Summary of Technical, Social or Economic Studies Relevant to the Proposal (Noise, Air, Water, etc.):

In coordination with the Ohio E.P.A. it has been determined that the proposal has been given the appropriate level of consideration with respect to air quality and is consistent with the approved State Implementation Plan as to the attainment and maintenance of air quality in accordance with the Federal Air Quality Standards.

This proposal is unrelated to traffic noise increases and no further documentation is required. No particular sensitive land use activities will be affected by the minor construction noises, but any applicable laws will be followed by the contractor.

8. Assessment of Proposed Action

	<u>No Effect</u>	<u>Minimal Effect</u>	<u>Significant Effect</u>
Land Use	X		
Planned Growth	X		
Activity/Development Patterns	X		
Traffic Volumes	X		
Travel Patterns	X		
Other Transportation Modes	X		
Access to an Area	X		
4(f)	X		
106	X		
Natural/Man-made Resources	X		

Based on the above, the project is considered to be a nonmajor action.

9. Assessment of Public Hearing Requirements

Chapter III of the TDP states that a public hearing must be held on a project when any of the following apply:

	<u>YES</u>	<u>NO</u>
R/W acquisition is considered significant:	_____	<u>X</u>
Changes to the layout or function of the connecting roadways or of the facility being improved are significant:	_____	<u>X</u>
Adverse impacts on abutting real property are significant and/or litigation or public controversy is anticipated:	_____	<u>X</u>
Social, economic, environmental or other effects on the surrounding area are significant:	_____	<u>X</u>

Based on the above, hearing recommendations are as follows:

- \_\_\_\_\_ No hearing required
- \_\_\_\_\_ Hearing requirements must be met
- \_\_\_\_\_ Opportunity to be offered
- \_\_\_\_\_ Hearing to be held





STATE OF OHIO  
DEPARTMENT OF TRANSPORTATION

INTER-OFFICE COMMUNICATION

County of LOGAN Dist. 7

S. H. CR 39 Sec. 4.98

Date September 25, 1979

To Delbert Leistrer, District Deputy Director Attention: Hugh Simpson

From R. E. Catlin, Special Deputy Administering Officer, Ohio Department of Transportation Clearinghouse

Subject ODOT Clearinghouse "Early Coordination" Documentation - LOG-CR 39-4.98;  
PF-LOG-17

The "Early Coordination" requirement (in compliance with the Federal Highway Administration's Federal-aid Highway Program Manual Volume 7, Chapter 7, Section 2 and Volume 7, Chapter 7, Section 1) has been completed for the subject project.

The original copies of all comments received from the review are enclosed for your use in future work on the subject project.

Late comments from that review will be forwarded upon receipt.

All comments must be considered and/or resolved during further project development.

Please keep this office informed of any correspondence initiated to resolve any of the comments.

R. E. Catlin  
Special Deputy Administering  
Officer  
ODOT Clearinghouse

REC/hd

Attachments

cc: FHWA--w/atlc.  
File  
Reading

## EARLY COORDINATION MAILING LIST

Those agencies from which comments were requested are indicated by an "X"

### STATE AGENCIES

- ( X ) Department of Natural Resources
- ( X ) Department of Mental Health and Mental Retardation
- ( X ) Departemnt of Administrative Services
- ( X ) Department of Health
- ( X ) Department of Highway Safety
- ( X ) Ohio Historical Society
- ( X ) Ohio Board of Regents
- ( X ) Ohio Environmental Protection Agency

### METROPOLITAN STUDY AGENCY

( )

### FEDERAL AGENCIES

- ( X ) Department of the Interior:
  - Fish and Wildlife Service, Div. of Ecological Services
  - Fish and Wildlife Service, Office of Endangered Species
  - National Park Service
  - U.S. Geological Survey
  - Heritage Conservation and Recreation Service
  - Bureau of Mines
- ( X ) Environmental Protection Agency
- ( X ) Department of Housing and Urban Development
- ( ) Department of Health, Education, and Welfare
- ( X ) Department of Agriculture
- ( ) Bureau of Commercial Fisheries
- ( ) U.S. Army Corps of Engineers
- ( ) U.S. Coast Guard
- ( ) Economic Development Administration

### STATEWIDE AGENCIES

( ) Ohio Environmental Council

LOG-CR 39-4.98  
PF-LOG-17  
OH-TIP79-083

THE OHIO DEPARTMENT OF  
NATURAL RESOURCES

# Memo

TO: R.E. Catlin, Special Deputy Administering Officer  
Ohio Department of Transportation DATE: September 19, 1979

FROM: Roger D. Hubbell, Assistant Chief *RH*  
Office of Outdoor Recreation Services

SUBJECT: EARLY COORDINATION LOG CR 39-4.98

This Department has completed a review of the above referenced project. At this time we foresee no significant adverse environmental impacts that would result from the completion of the proposed project. Furthermore, there are no known endangered species that would be affected by the project.

RDH:sjd

OHIO DEPARTMENT OF TRANSPORTATION  
ENVIRONMENTAL FACTORS CHECKLIST

08-17-79  
PF-LOG-17  
OH-TIP79-083

COUNTY: LOGAN

ROUTE: CR 39

SECTION: 4.98

INSTRUCTIONS - The information requested in this report is required for evaluation of criteria related to the improvement of highway services in the area shown on the attached map. Please complete this form and return to Mr. R. E. Catlin, Chief Engineer of Planning and Design, Ohio Department of Transportation, 25 South Front Street, P. O. Box 899, Columbus, Ohio 43216.

Check Marks should be placed in those blanks where your agency has expertise pertaining to the items covered. Written descriptions or discussions are solicited. Identify location on the attached map if possible, returning it with this form. Suggestions as to the source of additional data will also be welcomed. Please use reverse side or separate sheets for additional comments if necessary.

SIGNATURE AND RETURN ADDRESS MUST be completed to permit verification of data by the Department.

Yes No

1.  Do unique ( )geographic, ( )geologic, ( )geophysical, ( )topographic features exist in this area? Description \_\_\_\_\_
2.  Have ( )existing, ( )potential mineral resources been identified in this area? Description \_\_\_\_\_
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5.  Are some drainage courses subject to ( )flash flooding, ( )siltation, ( )erosion, ( )pollutants? Identify \_\_\_\_\_
6.  Are soils in the area susceptible to ( )erosion, ( )landslides, ( )settlement? Description \_\_\_\_\_
7.  Have air pollution problems been reported in this area? Explain \_\_\_\_\_
8.  Are there ( )existing, ( )pending air quality laws for this area? Sponsoring agency \_\_\_\_\_
9.  Do unusual species of fish or wildlife ( )reside, ( )migrate in this area? Name if possible \_\_\_\_\_
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14.  Which of the following facilities are proposed in this area: ( )parks, ( )recreation lands, ( )religious institution, ( )wildlife preserve, ( )educational facility, ( )industrial complex, ( )subdivision, ( )urban renewal, ( )others? \_\_\_\_\_
15.  Are there planning and development controls for this area? Administered by \_\_\_\_\_
16.  Are there ( )existing, ( )abandoned, ( )rehabilitated sanitary landfills in this area? Identify \_\_\_\_\_
17. Names of agencies providing public services in the area:  
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Ambulance \_\_\_\_\_ Gas \_\_\_\_\_  
Electricity \_\_\_\_\_ Water \_\_\_\_\_  
Sewage disposal \_\_\_\_\_ Solid waste disposal \_\_\_\_\_  
Other \_\_\_\_\_

18. OTHER COMMENTS: Please use reverse side or separate sheets.

SIGNATURE [Signature] ADDRESS OHIO DEPARTMENT OF NATURAL RESOURCES  
TITLE Ecological Analyst DIVISION OF NATURAL AREAS & PRESERVES  
ORGANIZATION \_\_\_\_\_ FOUNTAIN SQUARE BUILDING F  
COLUMBUS, OHIO 43224  
DATE 9/5/79 TELEPHONE NO. 466 2970

OHIO DEPARTMENT OF TRANSPORTATION  
ENVIRONMENTAL FACTORS CHECKLIST

08-17-79  
PF-LOG-17  
OH-TIP79-083

COUNTY: LOGAN

ROUTE: CR 39

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 Sewage disposal \_\_\_\_\_ Solid waste disposal \_\_\_\_\_  
 Other \_\_\_\_\_

18. OTHER COMMENTS: Please use reverse side or separate sheets.

SIGNATURE [Signature] ADDRESS 306. [Signature]  
 TITLE [Signature]  
 ORGANIZATION PAAS Div. FW  
 DATE 8/20/99 TELEPHONE NO. 466-4180

OHIO DEPARTMENT OF TRANSPORTATION  
ENVIRONMENTAL FACTORS CHECKLIST

08-17-79  
PF-LOG-17  
OH-TIP79-083

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ROUTE: CR 39

SECTION: 4.98

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Ambulance _____	Gas _____
Electricity _____	Water _____
Sewage disposal _____	Solid waste disposal _____
Other _____	

18. OTHER COMMENTS: Please use reverse side or separate sheets. *No Comments*

SIGNATURE *Norman J. Stuart* ADDRESS *240 Parsons Ave. Col. O. 43205*

TITLE *Chief of Field Services*

ORGANIZATION *Ohio Dept. of Highway Safety*

DATE *8-20-79* TELEPHONE NO. *614-466-3275*

COUNTY: LOGAN

ROUTE: CR 39

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18. OTHER COMMENTS: Please use reverse side or separate sheets.

SIGNATURE Bert C. Drennen, Head ADDRESS Ohio Historic Preservation Office  
Ohio Historical Center  
I-71 and 17th Avenue  
Columbus, Ohio 43211

TITLE Review and Compliance Dept.

ORGANIZATION \_\_\_\_\_

DATE Aug 17, 1979 TELEPHONE NO. 466-1500 ext. 266

OHIO DEPARTMENT OF TRANSPORTATION  
ENVIRONMENTAL FACTORS CHECKLIST

08-17-79  
PF-LOG-17  
OH-TIP79-083

COUNTY: LOGAN

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Ambulance _____	Gas _____
Electricity _____	Water _____
Sewage disposal _____	Solid waste disposal _____
Other _____	

18. OTHER COMMENTS: Please use reverse side or separate sheets. No comment

SIGNATURE Carl Wilhelm ADDRESS 361 E. Broad

TITLE Planning Coordinator

ORGANIZATION OEPA

DATE 8-22-79 TELEPHONE NO. 466-8866





# United States Department of the Interior

FISH AND WILDLIFE SERVICE  
Division of Ecological Services  
Columbus Field Office  
3990 East Broad Street  
Columbus, Ohio 43215

IN REPLY REFER TO:

September 6, 1979

Mr. R. E. Catlin  
Chief Engineer of Planning and Design  
Ohio Department of Transportation  
25 South Front Street  
Columbus, Ohio 43215

Dear Mr. Catlin:

This responds to your letters and attached information requesting our comments on the proposed projects described by the following Early Coordination notifications of a proposed highway action.

<u>Project No.</u>	<u>County</u>	<u>Route/Section</u>	<u>Notice Date</u>
OH-TIP79-083	Logan	CR 39/4.98	8/17/79
OH-TIP79-084	Logan	CR 1/5.60	8/17/79
OH-TIP79-085	Champaign	CR 14	8/17/79
OH-TIP79-089	Carroll	SR 39/1.54	8/28/79
OH-TIP79-091	Miami	SR 41/7.78; SR 202/9.94; and SR 504/0.07, 0.40	8/28/79
OH-TIP79-090	Carroll	SR 39/9.70	8/28/79
OH-TIP79-094	Hamilton	SR 126/17.05	8/28/79

These comments provide technical assistance only and do not constitute the report of the Secretary of the Interior on the project within the meaning of Section 2(b) of the Fish and Wildlife Coordination Act, nor do they represent the review comments of the Department of the Interior on any forthcoming environmental impact statement. These comments do not in any way preclude additional and separate evaluation and comments by the Fish and Wildlife Service, pursuant to any requirements for a permit from the Corps of Engineers, U. S. Army (Section 10 of the Rivers and Harbor Act of 1899 and Section 404 of the Clean Water Act of 1977).

The U.S. Fish and Wildlife Service makes the following recommendations:

1. Channelization should be avoided.
2. Any instream work other than that necessary for the placement of coffer dams and piers should be avoided.

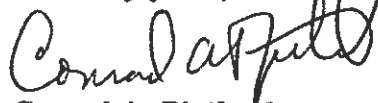
3. Channel shaping, where necessary, should be limited to areas above the mean water level.
4. All stream crossings should not impede the upstream and downstream movement of fish and other aquatic organisms.
5. Temporary crossings, if utilized, should be made with culverts and clean rock fill and should be removed immediately after construction is completed.
6. Cofferdams, if utilized, should be constructed with clean non-erodible material and removed after construction is completed.
7. Erosion control measures should be implemented.
8. Disrupted areas and available right-of-way should be planted with native vegetation of wildlife value.

The above recommendations are designed to mitigate adverse impacts to fish and wildlife resources. If they are implemented, the U.S. Fish and Wildlife Service would not anticipate any significant impacts to fish and wildlife as a result of the proposed projects, and would therefore have no objection to the projects. If, however, your project designs do not or cannot implement the above recommendations, please provide construction plans and any other available information and we will provide additional technical assistance comments.

In accordance with the Endangered Species Act of 1973, as amended, the information you have provided has been forwarded to the Regional Office, U.S. Fish and Wildlife Service, Federal Building, Fort Snelling, Twin Cities, Minnesota 55111. Comments regarding endangered species will be forwarded under separate cover.

Thank you for the opportunity to provide comments at this early stage of coordination. With the exception of the above mentioned endangered species contacts, further correspondence on the project should be conducted directly with this office.

Sincerely yours,



Conrad A. Fjetland  
Supervisor

cc: Chief, ODW, Columbus, OH



# United States Department of the Interior

HERITAGE CONSERVATION AND RECREATION SERVICE  
LAKE CENTRAL REGION  
ANN ARBOR, MICHIGAN 48107

IN REPLY REFER TO:

1202-02 Ohio  
HCRS 9-259

September 18, 1979

Mr. R. E. Catlin  
Chief Engineer of Planning and Design  
Ohio Department of Transportation  
25 South Front Street  
Columbus, Ohio 43215

Dear Mr. Catlin:

This is in response to your request for early coordination and comment concerning the proposed project to replace a bridge over a branch of the South Fork of the Miami River, on C.R. 39, 2.1 miles south of Belle Center in Logan County, Ohio.

Based on the information provided and our general knowledge of the area, it appears the project would not have significant adverse impacts on environmental resources within our area of jurisdiction and expertise. We suggest you confer with the State Historic Preservation Officer about potential impacts the project may have on cultural resources (see enclosed list).

This comment is provided as technical assistance and does not satisfy our obligation under the National Environmental Policy Act with respect to any negative declaration or environmental impact statement which may be prepared.

Sincerely,

Robert L. Pierce, Chief  
Division of Planning Assistance

Enclosure

UNITED STATES DEPARTMENT OF AGRICULTURE

SOIL CONSERVATION SERVICE

---

324 Silver Lake Pike - R, 1  
Bellefontaine, Ohio 43311

August 28, 1979

Mr. R. E. Catlin  
Deputy Director  
Division of Transportation Planning  
Ohio Department of Transportation  
25 South Front Street  
Columbus, Ohio 43216

Dear Mr. Catlin:

In accordance with your recent request to Robert E. Quilliam, we are returning to you, Ohio Department of Transportation, projects CR 39, Section 4.98 and CR 1, Section 5.60 in Logan County, Ohio.

Thank you for the opportunity to comment on these proposals.

Sincerely,

*David Nesser*

David Nesser  
District Conservationist

Enclosures

cc: Clifton A. Maguire, Acting State Conservationist  
Thomas C. Sommer, Area Conservationist



OHIO DEPARTMENT OF TRANSPORTATION  
ENVIRONMENTAL FACTORS CHECKLIST

08-17-79  
PF-LOG-17  
OH-T1P79-083

COUNTY: LOGAN

ROUTE: CR 39

SECTION: 4.98

INSTRUCTIONS - The information requested in this report is required for evaluation of criteria related to the improvement of highway services in the area shown on the attached map. Please complete this form and return to Mr. R. E. Catlin, Chief Engineer of Planning and Design, Ohio Department of Transportation, 25 South Front Street, P. O. Box 899, Columbus, Ohio 43216.

Check Marks should be placed in those blanks where your agency has expertise pertaining to the items covered. Written descriptions or discussions are solicited. Identify location on the attached map if possible, returning it with this form. Suggestions as to the source of additional data will also be welcomed. Please use reverse side or separate sheets for additional comments if necessary.

SIGNATURE AND RETURN ADDRESS MUST be completed to permit verification of data by the Department.

Yes No

1.  Do unique ( )geographic, ( )geologic, ( )geophysical, ( )topographic features exist in this area? Description \_\_\_\_\_
2.  Have ( )existing, ( )potential mineral resources been identified in this area? Description \_\_\_\_\_
3.  Does the area contain extensive ( )water supply wells, ( )lakes, ( )ponds? Description \_\_\_\_\_
4.  Have ( )known, ( )suspected contamination problems been reported in the ( )water supply wells, ( )lakes, ( )ponds mentioned in item 3 above?
5.  Are some drainage courses subject to (X)flash flooding, ( )siltation, (X)erosion, ( )pollutants? Identify Stream Bank erosion cause by channel clogged with brush.
6.  Are soils in the area susceptible to ( )erosion, ( )landslides, ( )settlement? Description \_\_\_\_\_
7.  Have air pollution problems been reported in this area? Explain \_\_\_\_\_
8.  Are there ( )existing, ( )pending air quality laws for this area? Sponsoring agency \_\_\_\_\_
9.  Do unusual species of fish or wildlife ( )reside, ( )migrate in this area? Name if possible \_\_\_\_\_
10.  Do species of wildlife exist in unusual quantity in this area? Name if possible \_\_\_\_\_
11.  Do unusual species of ( )trees, ( )shrubs, ( )vegetation exist in this area? Name if possible \_\_\_\_\_
12.  Does an unusual ( )quantity, ( )quality of plant life exist in this area? Name if possible \_\_\_\_\_
13.  Which of the following facilities exist in this area: ( )parks, ( )recreation lands, ( )religious institution, ( )athletic fields or buildings, ( )forest or wildlife preserve, ( )educational facility, ( )historic site, ( )eligible historic site, ( )archaeological site, ( )others? \_\_\_\_\_
14.  Which of the following facilities are proposed in this area: ( )parks, ( )recreation lands, ( )religious institution, ( )wildlife preserve, ( )educational facility, ( )industrial complex, ( )subdivision, ( )urban renewal, ( )others? \_\_\_\_\_
15.  Are there planning and development controls for this area? Administered by \_\_\_\_\_
16.  Are there ( )existing, ( )abandoned, ( )rehabilitated sanitary landfills in this area? Identify \_\_\_\_\_
17. Names of agencies providing public services in the area:  
Police \_\_\_\_\_ Fire \_\_\_\_\_  
Ambulance \_\_\_\_\_ Gas \_\_\_\_\_  
Electricity \_\_\_\_\_ Water \_\_\_\_\_  
Sewage disposal \_\_\_\_\_ Solid waste disposal \_\_\_\_\_  
Other \_\_\_\_\_

18. OTHER COMMENTS: Please use reverse side or separate sheets.

SIGNATURE Daniel Neese ADDRESS R#1-324 Silver Lake Pike Bellport, OH 43311  
TITLE District Conservationist  
ORGANIZATION Soil Conservation Service  
DATE 8-28-79 TELEPHONE NO. 593-2946

# Memo

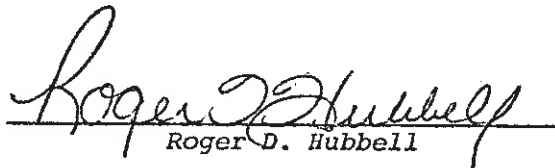
TO: Byrd Finley, Jr., Administrator  
Bureau of Environmental Services, ODOT

DATE: May 6, 1980

FROM: Roger D. Hubbell, Chief  
Office of Outdoor Recreation Services

SUBJECT: STREAM COORDINATION LOG CR-39-4.98

This Department has completed a review of the above listed project. At this time we foresee no significant environmental impacts that would result from the completion of the proposed project. Furthermore, there are no known endangered species that would be affected by this project.

  
Roger D. Hubbell

RDH/jd



# United States Department of the Interior

FISH AND WILDLIFE SERVICE  
Division of Ecological Services  
Columbus Field Office  
3990 East Broad Street  
Columbus, Ohio 43215

IN REPLY REFER TO:

April 16, 1980

Mr. Charles R. Tripp, P.E.  
Administrator  
Bureau of Environmental Services  
Ohio Department of Transportation  
25 South Front Street  
Columbus, Ohio 43215

Dear Mr. Tripp:

This responds to your letters and attached information requesting our comments on the proposed projects described by the following Stream Coordination notifications of a proposed highway action.

<u>Project No.</u>	<u>County</u>	<u>Route/Section</u>	<u>Notice Date</u>
PF 665	Clark	SR 4/16.24	3/26/80
PF 1240	Clinton	SR 134/2.25	3/27/80
PF LUC-89	Lucas	CR 28/2.67	3/27/80
PF LOG-017	Logan	CR 39/4.98	3/27/80
PF 820	Perry	SR 37/1.26	3/28/80
PF WAS-018	Washington	TR 172/0.44	4/1/80

These comments have been prepared under the authority of and in accordance with provisions of the Fish and Wildlife Coordination Act (48 Stat. 401, as amended; 16 U.S.C. 661 et seq.) and in compliance with the intent of the National Environmental Policy Act of 1969.

Based on our review of available information, the U. S. Fish and Wildlife Service does not anticipate significant losses to fish and wildlife resources and would therefore have no objection to the project as currently proposed. If future project designs require any additional instream work, channel shaping, or right-of-way expansion, please provide information depicting this involvement. We will then provide technical assistance comments if warranted.

These comments do not preclude additional and separate evaluation and comments by the Fish and Wildlife Service, pursuant to the Fish and Wildlife Coordination Act (16 U.S.C. 661, et seq.), if project implementation requires a Federal permit under the Clean Water Act of 1977.

We appreciate the opportunity to provide comments at this early stage of coordination.

Sincerely yours,

  
Kent E. Kroonemeyer  
Supervisor

cc: Chief, Ohio Division of Wildlife, Columbus, OH



# Views On Bridge Sought

Logan County Engineer Chester Kurtz is proposing to replace the County Road 39 bridge over the South Fork of the Great Miami River, just south of New Richland in Richland Township.

The existing truss bridge is posted for an 80 percent reduction in legal loads, is narrow and in very poor condition.

Mr. Kurtz said proposals being considered include a wider bridge with raised approaches. Approximately 600 feet of new pavement will be constructed west of the bridge and 400 feet east of the new structure.

As it is now in the planning stages, persons or groups having comments or opinions on the proposed improvement are urged to express them in writing to the Logan County Engineer, P.O. Box 427 Bellefontaine, 43311. If feasible, these suggestions will be included in the final design of the bridge replacement.

Mr. Kurtz added that he has applied for federal funding for the proposed improvement and that at this time no timetable has been adopted for eventual construction of the bridge.

CALC BY P.P.B.  
 DATE: 5-23-87  
 CHKD BY:  
 DATE:

DISTRICT	STATE	PROJECT
5	OHIO	

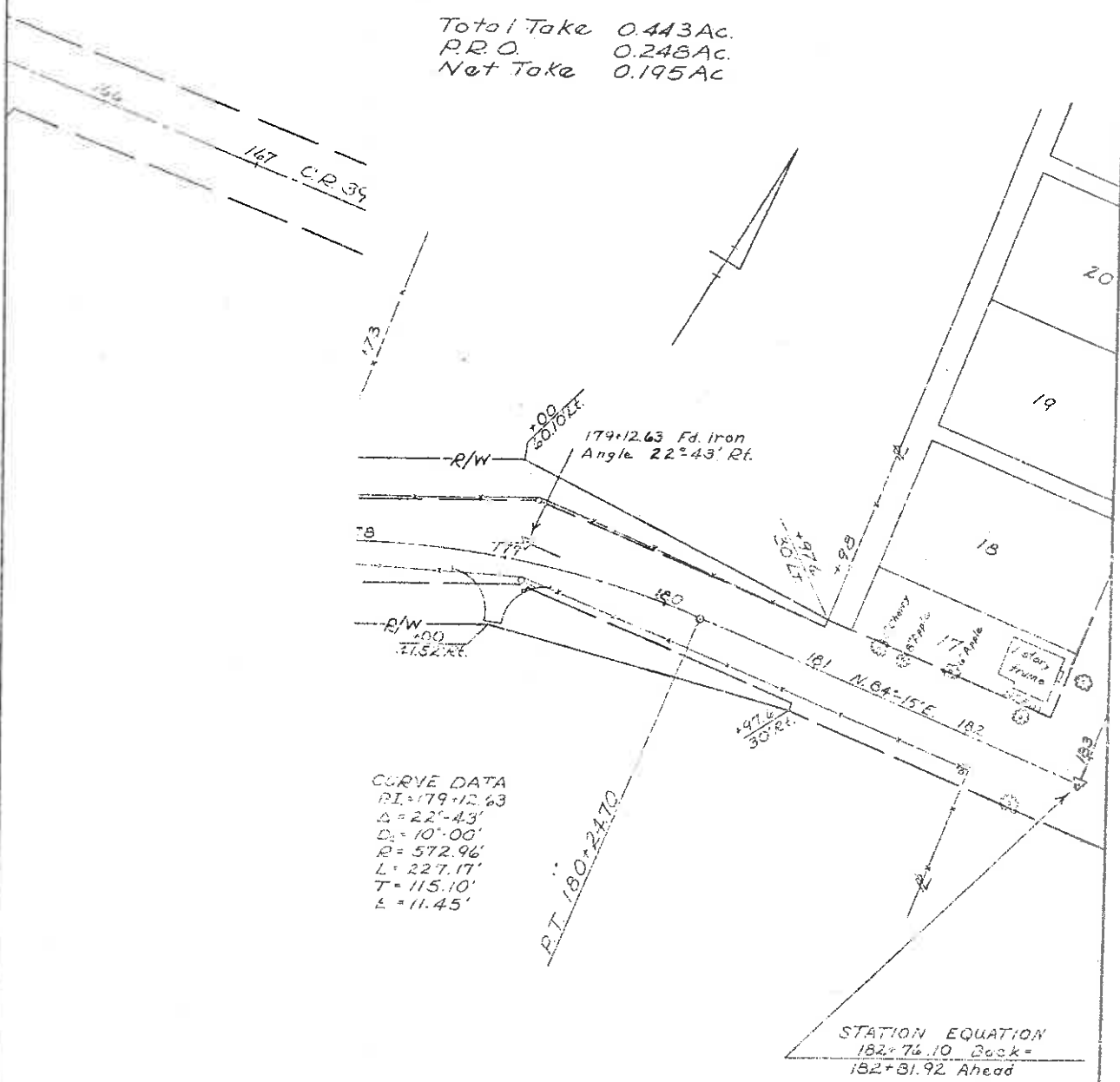


LOGAN COUNTY

C.R. 39-4.98

Jane Swetland  
 Vol. 335 Pg 723  
 14.50 Ac.

Total Take 0.443Ac.  
 P.R.O. 0.248Ac.  
 Net Take 0.195Ac



CURVE DATA  
 PI=179+12.63  
 $\Delta = 22^\circ 43'$   
 $D_s = 10^\circ 00'$   
 $R = 572.96'$   
 $L = 227.17'$   
 $T = 115.10'$   
 $E = 11.45'$

P.T. 180+24.70

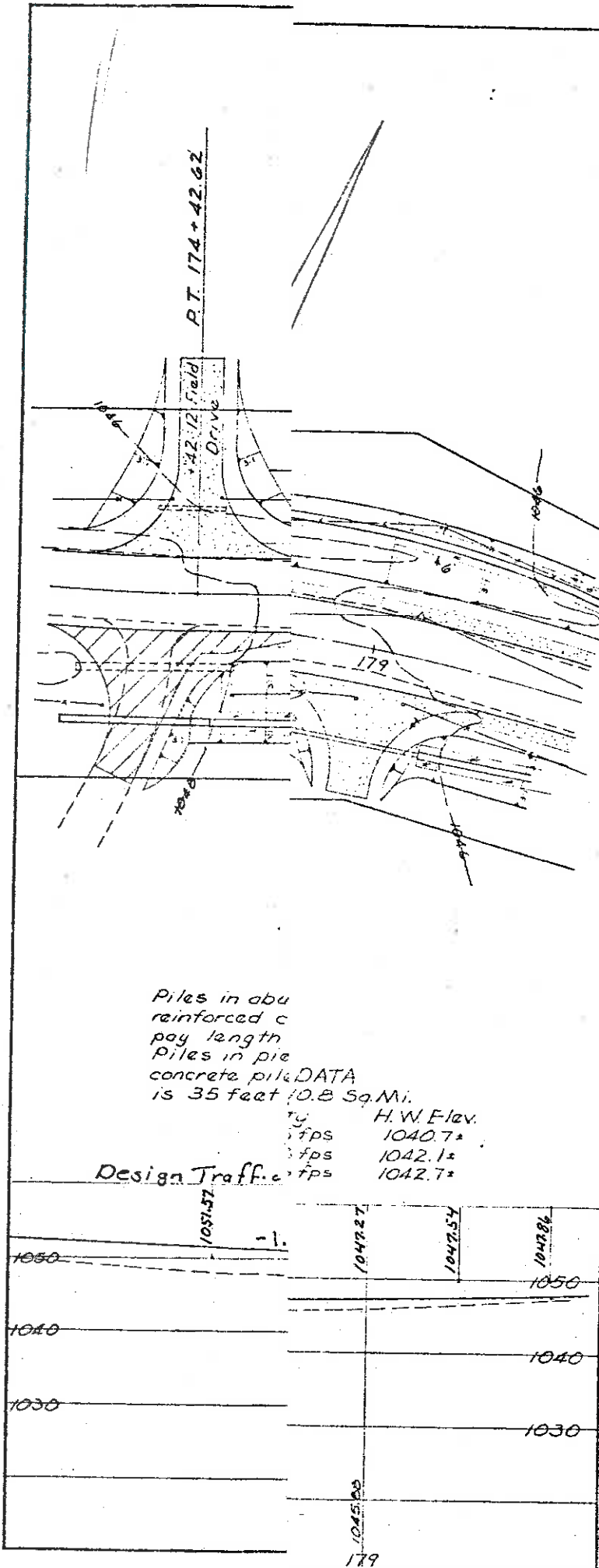
STATION EQUATION  
 182+74.10 Back=  
 182+31.92 Ahead

RIGHT-OF-WAY STA 166+00 to STA 182+00

FHWA REGION	STATE	PROJECT	
5	OHIO		

12  
17

LOGAN COUNTY  
BR. 39-4.98



EXISTING STRUCTURE

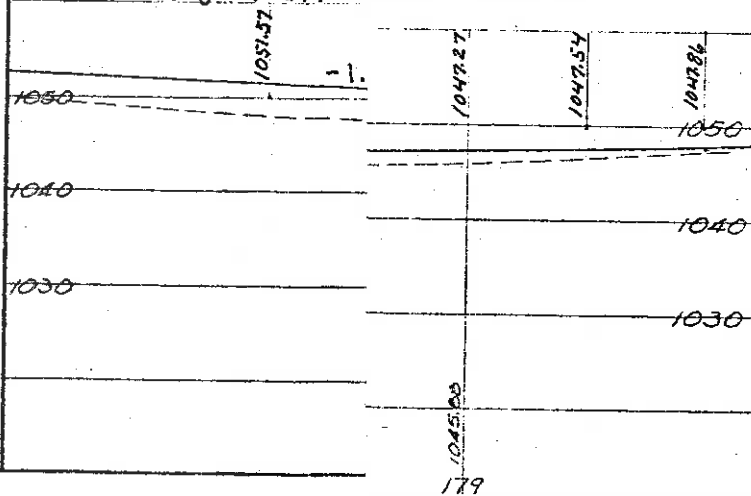
Type: Pratt Steel Truss  
 Span: 49'-0"  
 Roadway: 15.8'  
 Loading: Unknown  
 Skew: 0°  
 Wearing Surface: Bituminous  
 Alignment: Tangent  
 Condition: Poor

PROPOSED STRUCTURE

Type: Three span continuous reinforced concrete and capped pile substructures  
 Spans: 24'-0", 30'-0", 24'-0"  
 Roadway: 32'-0" w/ Guardrails  
 Loading: HS 20-44 and the Interstate Alternate Loading  
 Skew: 0°  
 Wearing Surface: Monolithic concrete  
 Alignment: Tangent

Piles in abutment reinforced concrete pile DATA is 35 feet (0.8 Sq. Mi.)

Design Traffic: 1040.7\*  
 H.W. Elev. 1042.1\*  
 1042.7\*



LOGAN COUNTY HIGHWAY DEPT. 115  
 CHESTER R. KURTZ, CO. ENGINEER

SITE PLAN  
 BR. No. 39-4.98  
 Richland Township  
 Logan County  
 Over a Branch of the South Fork of the River  
 Sta. 176+32 to Sta. 177+14

DESIGNED	DRAWN	CHECKED	REVIEWED	REVISED
R.A.B.	R.A.B.			R.A.B.
				3-12-80

CALC BY P.P.B  
 DATE: 5-23-95  
 CHK'D BY  
 DATE:

TRAC	STATE	PROJECT
5	OHIO	

LOGAN COUNTY  
 C.R. 39-4.98

Jane Swetland  
 Vol. 335 Pg. 723  
 21.82 Ac.

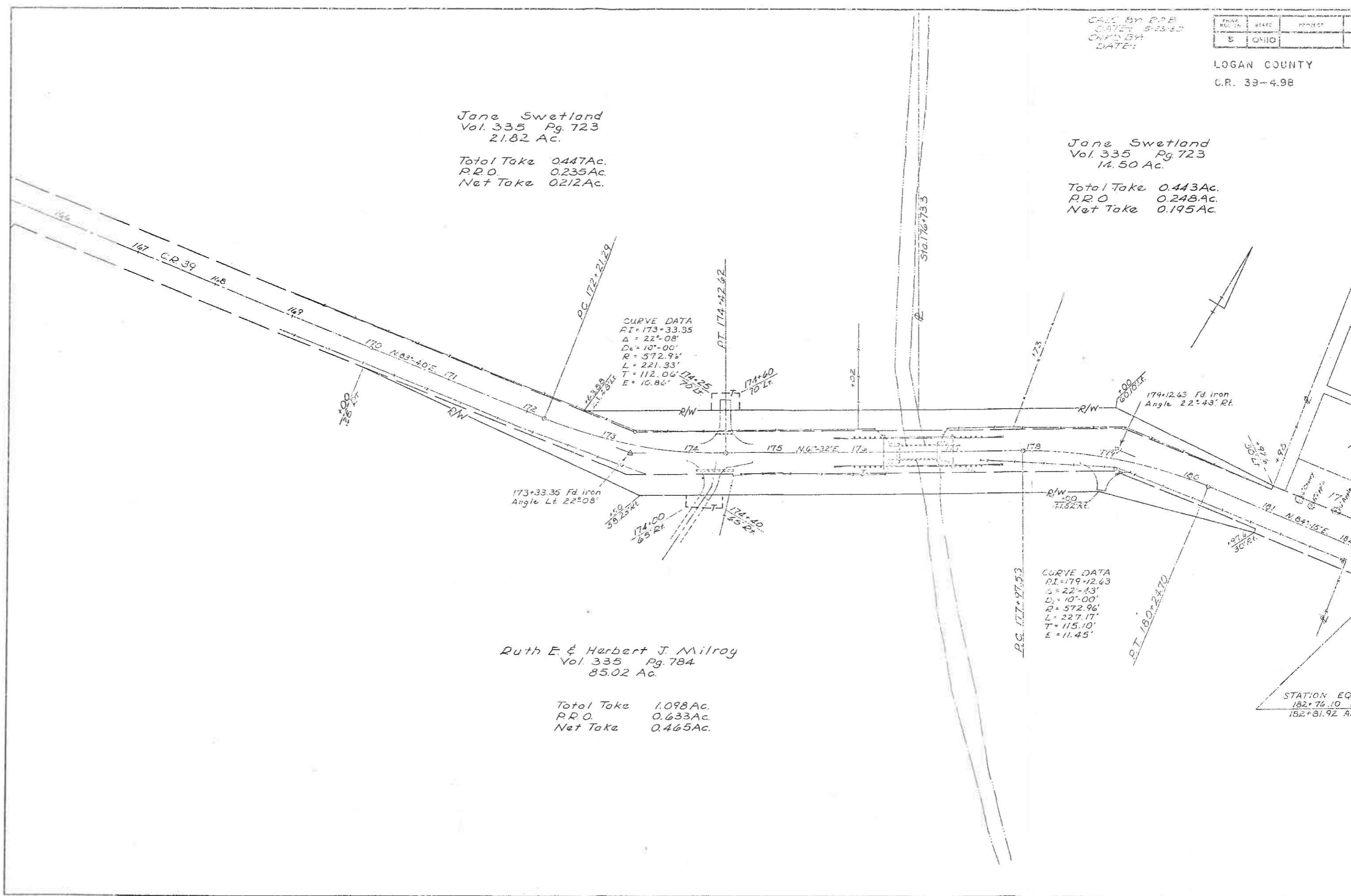
Total Take 0.447Ac.  
 P.R.O. 0.235Ac.  
 Net Take 0.212Ac.

Jane Swetland  
 Vol. 335 Pg. 723  
 14.50 Ac.

Total Take 0.443Ac.  
 P.R.O. 0.248Ac.  
 Net Take 0.195Ac.

Ruth E. & Herbert J. Milroy  
 Vol. 335 Pg. 784  
 85.02 Ac.

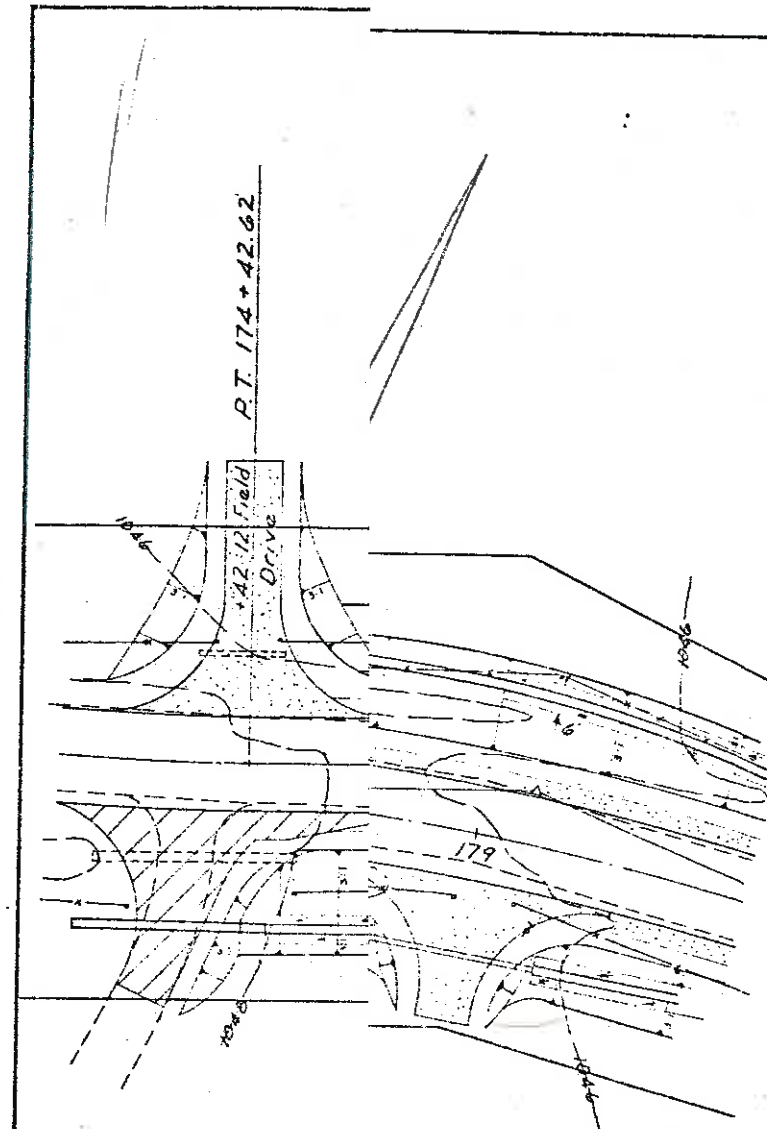
Total Take 1.098Ac.  
 P.R.O. 0.633Ac.  
 Net Take 0.465Ac.



FHWA REGION	STATE	PROJECT	
5	OHIO		

12  
17

LOGAN COUNTY  
BR. 39-4.98



EXISTING STRUCTURE

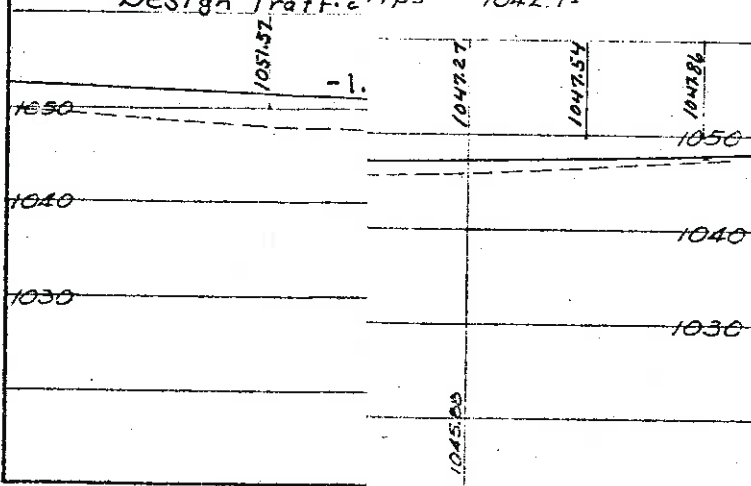
Type: Pratt Steel Truss  
 Span: 49'-0"  
 Roadway: 15.8'  
 Loading: Unknown  
 Skew: 0°  
 Wearing Surface: Bituminous  
 Alignment: Tangent  
 Condition: Poor

PROPOSED STRUCTURE

Type: Three span continuous reinforced concrete and capped pile substructures  
 Spans: 24'-0", 30'-0", 24'-0"  
 Roadway: 32'-0" w/ Guardrails  
 Loading: HS 20-44 and the Interstate Alternate Loading  
 Skew: 0°  
 Wearing Surface: Monolithic concrete  
 Alignment: Tangent

Piles in abutments reinforced concrete  
 Piles in piers reinforced concrete  
 Piles in pile concrete pile DATA is 35 feet (O.B. Sq. Mi.)

Design Traffic: H.W. Elev. 1040.7±  
 1042.1±  
 1042.7±



LOGAN COUNTY HIGHWAY DEPT. 115  
 CHESTER R. KURTZ, CO. ENGINEER

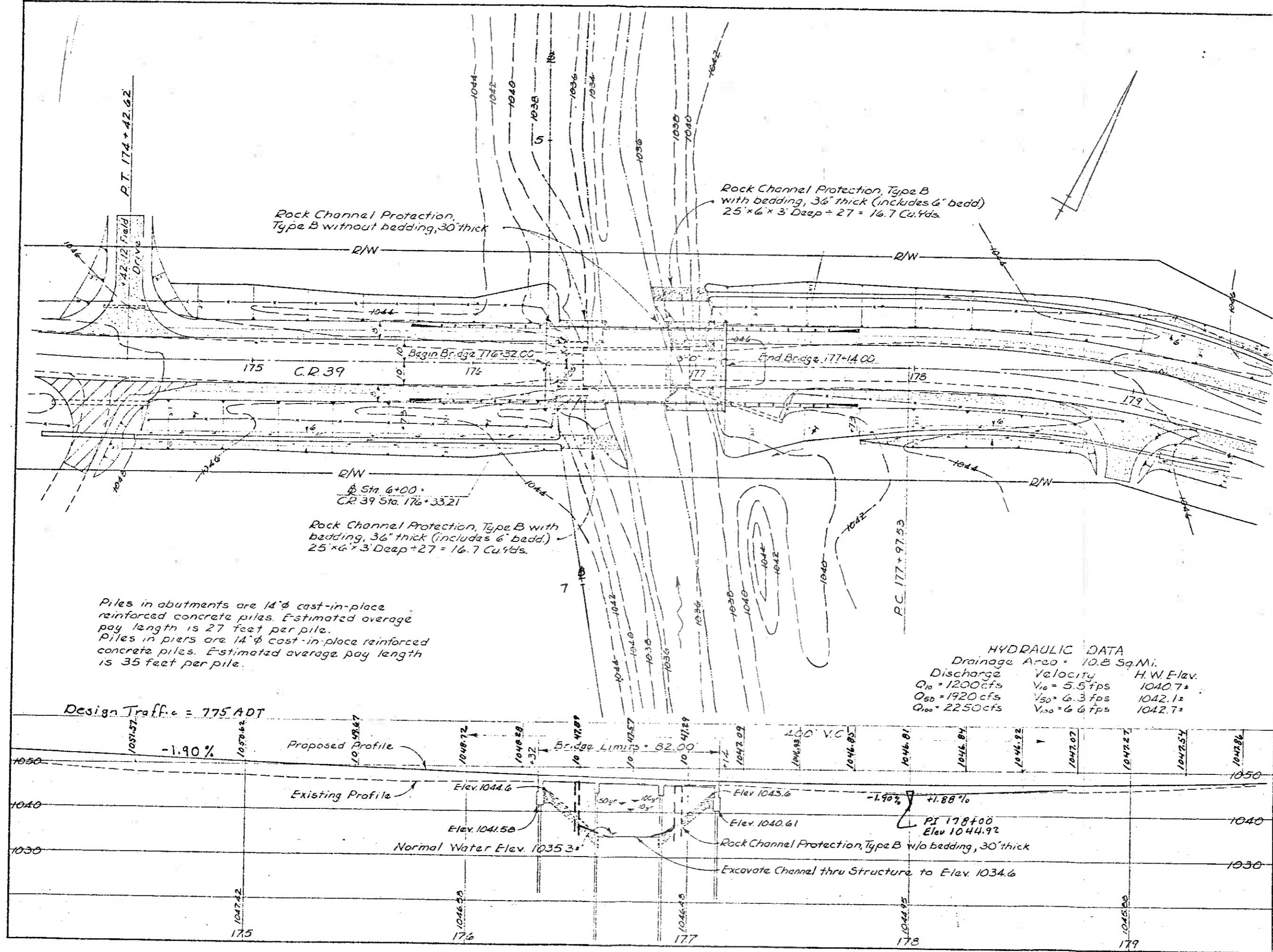
SITE PLAN  
 BR No. 39-4.98  
 Richland Township  
 Logan County  
 Over a Branch of the South Fork of the Marietta  
 Sta 174+32 to Sta 177+12

DESIGNED	DRAWN	CHECKED	REVIEWED	REVISED
R.A.B.	R.A.B.			R.A.B.
				3-12-80

SITE PLAN

FHWA REGION	STATE	PROJECT
5	OHIO	

LOGAN COUNTY  
BR. 39-4.98



EXISTING STRUC

Type: Pratt Steel T.  
 Span: 49'-0"  
 Roadway: 15.8'  
 Loading: Unknown  
 Skew: 0°  
 Wearing Surface: Bit  
 Alignment: Tangent  
 Condition: Poor

PROPOSED STRUC

Type: Three span co.  
 reinforced concrete  
 capped pile substr  
 Spans: 24'-0", 30'-0",  
 Roadway: 32'-0" % Gu  
 Loading: HS 20-4  
 Interstate Alternate  
 Skew: 0°  
 Wearing Surface: M  
 concrete  
 Alignment: Tangent

LOGAN COUNTY HIGHWAY DE  
 CHESTER R. KURTZ, CO. E

SITE PLAN  
 BR No. 39-4.98  
 Richland Townshi  
 Logan County,  
 Over a Branch of the South R  
 Sta 176+32 to Sta 17  
 DESIGNED DRAWN CHECKED REVISE  
 R.A.B. R.A.B.



# OHIO Department of TRANSPORTATION

James A. Rhodes/Governor  
David L. Weir/Director  
25 South Front Street  
P. O. Box 899  
Columbus, Ohio 43216

DISTRICT SEVEN  
P.O. Box 381  
Sidney, Ohio  
45365

June 13, 1980

RECEIVED  
JUN 18 1980  
LOGAN COUNTY  
PLANNING

Chester R. Kurtz, P. E.  
Logan County Engineer  
Tidewater Road  
Bellefontaine, Ohio 43311

Subject: Log-C.R. 39 - 4.98

Dear Mr. Kurtz:

Attached for your review is a pencil draft of the environmental assessment for the CR 39 bridge replacement.

Please note the areas I have marked. I need this information, as well as a right of way plan.

If the plan is near F. & O. C. stage I can copy the pages I will need from that submission.

Please contact me if you have any questions.

Delbert L. Leistner, P. E.  
District Deputy Director

*Burley J. Sigman*  
Burley J. Sigman, P. E.  
Planning Engineer

BJS:rba  
Attach.  
cc: File  
Sigman

LOG 7

C.R. 39

April 29, 1980

Delbert L. Leistner, District Deputy  
Director  
Robert B. Pfeifer, Engineer of Bridges

Hugh W. Simpson, D&P  
Engineer  
Norbert J. Baltzer,  
Prelim. Design Engineer

TS&L Review C.R. 39-4.98 over South Fork of Miami River

We have reviewed the preliminary site plan for the above named structure and offer the following suggestions:

- ✓ 1. We assume that the County Engineer has determined that this bridge replacement, with respect to waterway opening, is in the public interest based on past flood experience.
- ✓ 2. Calculate clearance to design high water and note on site plan.
- ✓ 3. In upper right hand corner change BR. to CR.
- ✓ 4. Show 2 to 1 slopes in the plan and profile views.
- ✓ 5. Designer, checker and reviewer should initial site plan.
- ✓ 6. Earth work limits note should be on site plan.
7. We suggest using standard drawing CPA-2-73 with 3'3" bench for the abutments.

TS&L approved subject to the above comments and results of the foundation investigation.

RBP:NJB:of2

cc: Chester R. Kurtz, Logan County Engineer ✓  
Richard Henderson  
Charles Tripp  
D. H. Sparks  
File

RECEIVED

MAY 5 1980

LOGAN COUNTY  
ENGINEER



# HISTORIC INVENTORY

Ohio Historic Preservation Office  
Ohio Historical Center  
Columbus, Ohio 43211

## TRUSS BRIDGE SURVEY AND INVENTORY FORM

Type of Bridge: Metal Truss   
Covered Wooden Truss

1. Bridge No. \_\_\_\_\_

2. County Logan

3. Location of Negatives \_\_\_\_\_

6. Specific Location  
Route No. C.R. 39  
Township & Sec. Richland Twp.  
Town 4.98  
Feature or Stream Creek

7. Site Plan with North Arrow  
see attached U.S.G.S.  
topo map

8. Coordinates  
Lat. \_\_\_\_\_ Long. \_\_\_\_\_  
U.T.M. Reference  
Zone Easting Northing

9. On National Register? Yes   
No

10. Eligible? Yes   
No

4. Present Name(s) none

5. Other Name(s) none

11. Date(s) 1890

12. Builder unknown

13. Truss Design  
Half-hip Pratt

14. No. Spans 1

15. No. of Roadways 1

16. Walkways none

17. Length:  
Overall 49'-0"  
Clear Span 43'-0"  
Width:  
Overall 18'-0"  
Roadway 16'-0"  
Ht. of Trusses 6'-0"

18. Foundation & Pier Material  
concrete & stone  
Deck Material  
wood strip

19. Owners Name and Address  
Logan Co. Comm.  
Court House  
Bellefontaine, Ohio

20. Original Site Moved? No  
When Moved?

21. Legal Load 20%  
Condition poor

22. Preservation Yes   
Underway? No

23. Endangered? Yes  
By What? collapse by overload

24. Other Surveys Which Include  
unknown

15. History and Significance  
none

6. Description of Environment surrounding area is  
predominately agricultural. County Road 39 is a  
major farm to market route between Huntsville and  
Belle Center

7. Sources of Information  
Logan County Bridge Files and field observation

6. Metal Truss  
Covered Wooden Truss

Photo

28. Prepared By:  
R. A. Bruce

29. Organization:  
Logan Co. Engr. Office

30. Date: 5-9-79  
Revision  
Date:

1. Bridge No. \_\_\_\_\_

2. County \_\_\_\_\_

4. Bridge Name(s) \_\_\_\_\_

5. Other Name(s) \_\_\_\_\_

28. Prepared By:  
R. A. Bruce

29. Organization:  
Logan Co. Engr. Office

30. Date: 5-9-79  
Revision  
Date:

Logan

7

CR 39 - 4.98

October 30, 1980

C. Dorian

R. B. Pfeiffer, Engr., Bur. of Bridges

Delbert L. Leistner, District Deputy Director

Hugh W. Simpson, Design &  
Planning Engineer

Review Plans BRZ-4604(1)

Enclosed is a complete set of plans, including the revised bridge plans for subject project. Please review the bridge plans and furnish your comments to the Logan County Engineer and this office.

HMS:rba  
Attach.

cc: File

 Kurtz

Steva

RECEIVED

NOV 3 1980

LOGAN COUNTY  
ENGINEER

① Unit Stress for Class S Concrete  
in Superstructure, Unit Stress -

Concrete Class C - compress. strength - 4000 <sup>PSI</sup>  
 " " S - " " - 4500 <sup>PSI</sup>  
 ASTM A615, A616,

For quantities between bridge  
 units see sheet No 12.

201	500	500
202	69' @ 5.52	350
203	1220 @ 2.35	2,867
203	2684 @ 1.99	5,341
203	2163 @ 0.43	930
606		
606		
606		
410	50 @ 13.80	690
616	50 @ 14.27	713
616	10 @ 156.13	1,561
207		
207		
601	24 @ 21.50	516
601	5 @ 21.50	108
659	5435 @ 0.26	1,413
659	58 @ 364.40	211
659		
660	684 @ 2.90	1,984

301 379 @ 46.97  
 403 75 @ 44.91  
 404 75 @ 41.76  
 404 6 @ 60.00  
 408 42 @ 0.78  
 411 172 @ 14.77  
 614  
 623  
 624  
 619

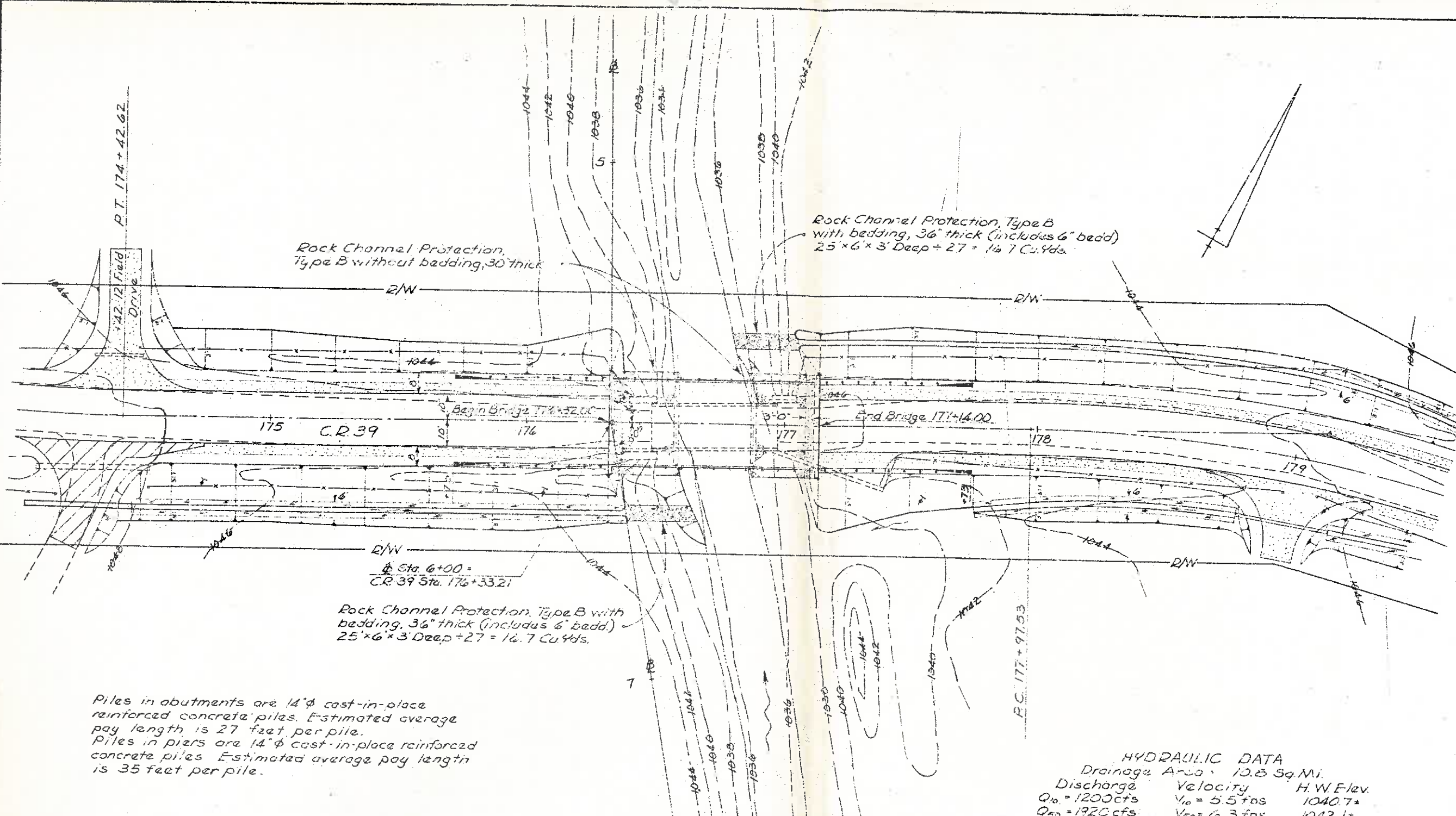
17,800  
 3,370  
 3,130  
 360  
 33  
 2,540  
 2,500  
 2,500  
 2,500  
55,000

301 379 @ 46.97  
 403 75 @ 44.91  
 404 75 @ 41.76  
 404 6 @ 60.00  
 408 42 @ 0.78  
 411 172 @ 14.77  
 614  
 623  
 624  
 619

17,800  
 3,370  
 3,130  
 360  
 33  
 2,540  
 2,500  
 2,500  
 2,500  
55,000

The above is a list of the  
 items in the inventory.

The above is a list of the  
 items in the inventory.

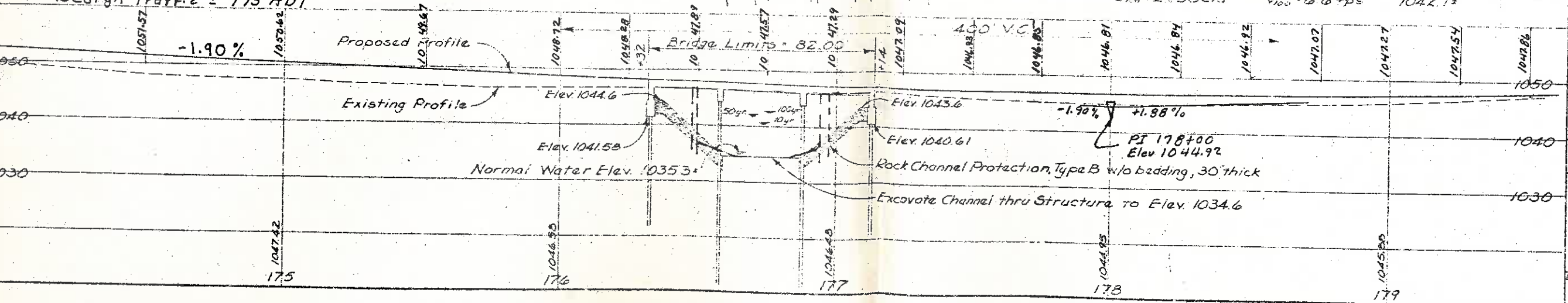


Piles in abutments are 14"  $\phi$  cast-in-place reinforced concrete piles. Estimated average pay length is 27 feet per pile.  
Piles in piers are 14"  $\phi$  cast-in-place reinforced concrete piles. Estimated average pay length is 35 feet per pile.

Design Traffic = 775 ADT

HYDRAULIC DATA

Drainage Area	10.8 Sq. Mi.	
Discharge	Velocity	H. W. Elev.
$Q_{10} = 1200$ cfs	$V_{10} = 5.5$ fps	1040.7'
$Q_{50} = 1920$ cfs	$V_{50} = 6.3$ fps	1042.1'
$Q_{100} = 2250$ cfs	$V_{100} = 6.6$ fps	1042.7'



EXISTING STRUCTURE

Type: Pratt Steel Truss  
Span: 49'-0"  
Roadway: 15.8'  
Loading: Unknown  
Skew: 0°  
Wearing Surface: Bituminous  
Alignment: Tangent  
Condition: Poor

PROPOSED STRUCTURE

Type: Three span continuous reinforced concrete and capped pile substructures  
Spans: 24'-0", 30'-0", 24'-0"  
Roadway: 32'-0" w/ Guardrails  
Loading: HS 20-44 and the Interstate Alternate Loading  
Skew: 0°  
Wearing Surface: Monolithic concrete  
Alignment: Tangent

LOGAN COUNTY HIGHWAY DEPT. 115  
CHESTER R. KURTZ, CO. ENGINEER

SITE PLAN  
BR. No 39-4.98  
Richland Township  
Logan County  
Over a Branch of the South Fork of the Miami  
Sta. 176+32 to Sta. 177+14  
DESIGNED DRAWN CHECKED REVIEWED  
R.A.B. R.A.B. R.A.B.  
3-12-80



# OHIO Department of TRANSPORTATION

James A. Rhodes/Governor  
David L. Weir/Director  
25 South Front Street  
P. O. Box 899  
Columbus, Ohio 43216

DISTRICT SEVEN  
P.O. Box 381  
Sidney, Ohio  
45365

July 28, 1980

Chester R. Kurtz, P. E.  
Logan County Engineer  
Tidewater Road  
Bellefontaine, Ohio 43311

Attention: Rick Bruce

Subject: Log-C.R. #39 - 4.98

Dear Mr. Bruce:

Attached for your files is the environmental clearance for this project.

If you have any questions please call me.

Delbert L. Leistner, P. E.  
District Deputy Director

*Burley J. Sigman*  
Burley J. Sigman, P. E.  
District Planning Engineer

BJS:rba  
Attach.  
cc: File  
Sigman

**RECEIVED**

**JUL 30 1980**

**LOGAN COUNTY  
ENGINEER**



STATE OF OHIO  
DEPARTMENT OF TRANSPORTATION

JUL 23 1980

INTER-OFFICE COMMUNICATION

County LOG Dist. 7  
Rte./Sec. CR39 4.98  
Date July 21, 1980

AU-76 Rev. 2-79

To Delbert L. Leistner, District Deputy Director Attn. Hugh Simpson  
From Byrd Finley, Jr., Administrator, Bureau of Environmental Services By R. A. Allen, Jr.  
Subject Environmental Document

Attached is a letter from the Federal Highway Administration dated July 15, 1980, concurring in our determination of July 1, 1980, that the subject project may be classified as a Categorical Exclusion.

The Early Coordination for the subject project (PF # LOG-17) was approved on September 25, 1979. (BRZ-4604(1))

Please note the Federal Highway Administration concurs that a public hearing is not required.

The subject project may be advanced in the normal manner as soon as the necessary Federal programming and authorization are obtained.

BF: RAA: am4

Attachment

cc: Mr. J. B. Ellis - Mr. Henderson - Mr. Orga - Mr. Arledge -  
Mr. Edgar - Mr. McCleese - Mr. Tripp - Mr. Art - Mr. Heidtman,  
w/atts. - Mr. Hess - District 7 - File - Reading File

Star

101

Allen  
Log-17  
Sept. 25, 79

FEDERAL HIGHWAY ADMINISTRATION  
REGION FIVE  
OHIO DIVISION OFFICE

Date July 15, 1980

To: Bureau of Environmental Services  
Ohio Department of Transportation

Subject: Project BRZ-4604(1) County/Rte/Sec. LOG-CR-39-4.98

Your submission dated July 1, 1980

Type of Review: Air  Noise  Environmental

Based upon current project information available in this office, the subject report is considered:

Satisfactory  See Comments Below

In addition, also based on current information:

We concur with the appropriateness of your classifying this project as a categorical exclusion. If, in further developing this action, significant impacts are identified, an EIS will be required.

We concur in your determination that an opportunity for a public hearing ~~is~~ is not required for this project.  
OK

COMMENTS:

*Donald B. Lewis*  
District Engineer







STATE OF OHIO  
DEPARTMENT OF TRANSPORTATION

JUL 03 1980

INTER-OFFICE COMMUNICATION

County LOG Dist. 7  
Rte./Sec. CR 39-4.98  
Date July 1, 1980

AU-76 Rev. 2-79

To John W. McBee, Division Administrator, FHWA Attn. Environmental Specialist  
From Byrd Finley, Jr., P.E., Administrator, Bureau of Environmental Services  
Subject Recommended Project Procedures P.F. LOG-17

This office has reviewed the attached Environmental Document for the LOG-CR 39-4.98 project for a determination of the type of project procedures to be used under existing regulations and we offer the following recommendations:

I. Environmental Considerations:

Based on this review of the Environmental Document, in light of FHPM 7-7-2, the document should be processed as a:

- Environmental Impact Statement ( ) Draft ( ) Final
- Environmental Assessment
- FONSI
- X Categorical Exclusion

II. Public Hearing Considerations:

Based on the description of the project in this Environmental Document in relation to the criteria described in the Transportation Development Process, the public hearing status is as follows:

- X No hearing required.
- Hearing required.

III. Noise Considerations:

NA Based on available information, exceptions to the design noise levels may be required.

See attached comments.

BF: RAA

Attachment

cc: District 7  
Mr. Henderson  
File  
Reading File



STATE OF OHIO  
DEPARTMENT OF TRANSPORTATION  
INTER-OFFICE COMMUNICATION

County of LOG Dist. 7  
S. H. <sup>C.R.</sup> 39 Sec. 4.98  
Date 6/25/80

To File Attention: \_\_\_\_\_  
From R. A. Allen Jr.  
Subject Environmental Document "In House" Review: LOG-C.R.39-4.98  
P.F. LOG-17

Please review the attached LOG-39-4.98 for your specialty, attach comments if appropriate, and forward to next person:

A. Engineering and Technical Systems

- 1. Noise
  - a. Report status \_\_\_\_\_
  - b. Discussion in document unrelated 6/24/80 FISH
  - c. Exception required: Yes \_\_\_\_\_ No ✓
- 2. Air
  - a. Report status Exempted - 20 Aug 1979 - HCT
  - b. Discussion in document OK to Process - 24 June 1980 - HCD

B. Community Involvement

- 1. Hearing: Required \_\_\_\_\_ Not Required X 6/25/80 RUM
- 2. Discussion in document PI OK w/ 6-25-80

C. Cultural and Natural Systems

- 1. Historic
  - a. Report status Cleared 8-17-79
  - b. Discussion in document OK to process
- 2. Prehistoric
  - a. Report status Cleared 8-17-79
  - b. Discussion in document OK to process
- 3. Biological
  - a. FWS and DNR coordination \_\_\_\_\_ OK
  - b. Wetlands \_\_\_\_\_ OK
  - c. Prime and unique farmlands \_\_\_\_\_ N.A.
  - d. Discussion in document OK
- 4. Section 4(f)
  - a. Coordination \_\_\_\_\_ NA.
  - b. Discussion in document \_\_\_\_\_ OK

D. Processing Recommendations

- 1. Send to FHWA as a Categorical
- 2. \_\_\_\_\_
- 3. (Draft) Exclusion
- 4. \_\_\_\_\_
- 5. (Final) OK 7-1-80

ENVIRONMENTAL ASSESSMENT  
SHORT FORM FOR DETERMINING NONMAJOR ACTION

Date \_\_\_\_\_

County, Route, Section LOGAN-CR39-4.98 PF LOGO17

Federal Number BRZ-4604(1) State Job Number 07126(0)

TDP Category II Project Length 1100' Est. Cost \$150,000

Termini \_\_\_\_\_

Type Improvement REPLACEMENT of a Bridge over an UNNAMED fork of the GREAT MIAMI River

<u>Est. Traffic Data</u>	<u>Year</u>	<u>ADT</u>	<u>% Trucks</u>	<u>Operating Speed</u>
Present Day	<u>1980</u>	<u>475</u>	<u>5%</u>	<u>30 MPH</u>
Opening Day (Build)	_____	_____	_____	_____
Opening Day (No Build)	_____	_____	_____	_____
Design Year (Build)	<u>2000</u>	<u>775</u>	<u>5%</u>	<u>30 MPH</u>
Design Year (No Build)	_____	_____	_____	_____

1. Existing Facility Data

No. Lanes 2 Pavement Width 18' R/W Width 50'

Type Access Control NONE

Deficiencies of Existing Facility:

The existing structure is a narrow (15.8') Pratt truss, with a load reduction of 80%, and this structure is in poor condition

Status of Any Improvements to Adjoining Sections:

There are no improvements planned to the adjoining sections, at this time

2. Proposed Facility Data (Based on preferred alternative)

No. Lanes 2 Pavement Width 20' R/W Width 100' ±

Approx. Amount New R/W Required (Acres, Sq. Ft., etc.) 0.9 Ac.

No., Size & Type of R/W Takes (Include Preliminary R/W Plan):

**See R/W Plan**

Relocation Assistance: No X Yes \_\_\_\_\_ Explain:

Benefits of Proposal:

This proposal will allow legal loads to use this structure.

**Will also increase the width.**

Consistency with Planning & Regional/Community Goals & Objectives:

This project is consistent with the goals and objectives of the area, that is, a safe and efficient highway system.

Major Design Features (General Vertical & Horizontal Alignment, Location of Interchanges, Separations, At-Grade Interchanges, River/Stream Crossings, etc.):

This structure will be a three span continuous concrete superstructure on capped pile substructure. There will be minor profile and alignment corrections made. This structure is over an unnamed fork of the Great Miami River.

Status of Plan Development (Plan Reviews, R/W, etc.):

At this time plans are 95% complete

**We have been waiting since December, 1979 for Bridge Bureau Comments to finalize the plans.**

3. Summary of Early Coordination (A-95, Early Coordination, Other Agencies, etc.):

Early Coordination was completed September 25, 1979, a copy of all replies is attached.

A summary of all major comments is as follows

OHIO DEPARTMENT OF Natural Resources:

No adverse impacts and  
No endangered species.

OHIO Historic Preservation Office:

No historic sites, No eligible  
historic sites and no archaeological  
sites.

U.S. Fish and Wildlife Service:

No significant losses to fish and  
wildlife resources.

U.S. Department of Agriculture

Soil Conservation Service:

No major comments.

U.S. Department of Interior

Heritage Conservation and Recreation Service:

No significant adverse impacts on the

At this time plans are \_\_\_\_\_ complete

3. Summary of Early Coordination (A-95, Early Coordination, Other Agencies, etc.):

Early Coordination was completed September 25, 1979, a copy of all replies is attached.

A summary of all major comments is as follows

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No significant losses to fish and  
wildlife resources.

U.S. Department of Agriculture  
Soil Conservation Service:

No major comments.

U.S. Department of Interior  
Heritage Conservation and Recreation Service:

No significant adverse impacts on the  
environmental resources

4. General Description of Surrounding Area:

Present and Proposed Land Use:

THE PRESENT AND PROPOSED LAND USE IN THE  
IMMEDIATE AREA, PREDOMINATELY AGRICULTURAL.

IS

*Character of Terrain:*

The surrounding terrain is basically flat.

*Natural Features (Lakes, Streams, Forests, Wetlands, etc.):*

THE STREAM IS AN UNNAMED BRANCH OF THE SOUTH FORK OF THE GREAT MIAMI RIVER.

IT HAS BEEN DETERMINED THAT THE PROJECT IS NOT LOCATED IN OR ADJACENT TO WETLANDS AS DEFINED IN PRESIDENTIAL EXECUTIVE ORDER 11740.

*Cultural Features (Parks, Recreation Areas, Historic Sites, Landmarks, Institutions, etc.):*

THERE ARE NO PARKS, RECREATION AREAS, HISTORIC SITES, ETC. IN THE SURROUNDING AREA OF THE PROJECT.

*Character of Surrounding Neighborhoods (Minorities, Low Income, Ethnic, etc.):*

THERE ARE NO KNOWN MINORITIES, LOW INCOME, ETHNIC OR OTHER GROUPS IN THE SURROUNDING AREA OF THE PROJECT.

**Public Facilities and Services (Religious, Health, Educational Facilities, Public Utilities, Public Transportation, etc.):**

The public facilities and services in the area are those typical to a rural area.

**5. Summary of Alternatives (Consider No Build as a minimum):**

The "No Build" alternative would result in perpetuating the deficient structure. Minor design changes in alignment and profile were the only other alternatives investigated.

**6. Summary of Input from Publics (Public Meetings, Oral or Written Contact, Controversy, etc.):**

A newspaper article publicized the proposal by the county engineer to replace the structure. No comments on the article were received.

The County Commissioners have discussed this project during a regular meeting.

The County Engineer has met with the adjacent property owners.



7. Summary of Technical, Social or Economic Studies Relevant to the Proposal (Noise, Air, Water, etc.):

In coordination with the Ohio E.P.A., it has been determined that the proposal has been given the appropriate level of consideration with respect to air quality and is consistent with the approved State Implementation Plan as to the attainment and maintenance of air quality in accordance with the Federal Air Quality Standards.

This proposal is unrelated to traffic noise increases and no further documentation is required. No particular sensitive land use activities will be affected by the minor construction noises, but any applicable laws will be followed by the contractor.

8. Assessment of Proposed Action

	<u>No Effect</u>	<u>Minimal Effect</u>	<u>Significant Effect</u>
Land Use	X		
Planned Growth	X		
Activity/Development Patterns	X		
Traffic Volumes	X		
Travel Patterns	X		
Other Transportation Modes	X		
Access to an Area	X		
4(F)	X		
106	X		
Natural/Man-made Resources	X		

Based on the above, the project is considered to be a nonmajor action.

9. Assessment of Public Hearing Requirements

Chapter III of the TDP states that a public hearing must be held on a project when any of the following apply:

	<u>YES</u>	<u>NO</u>
R/W acquisition is considered significant:	_____	<u>X</u>
Changes to the layout or function of the connecting roadways or of the facility being improved are significant:	_____	<u>X</u>
Adverse impacts on abutting real property are significant and/or litigation or public controversy is anticipated:	_____	<u>X</u>
Social, economic, environmental or other effects on the surrounding area are significant:	_____	<u>X</u>

Based on the above, hearing recommendations are as follows:

- X No hearing required
- \_\_\_\_\_ Hearing requirements must be met
- \_\_\_\_\_ Opportunity to be offered
- \_\_\_\_\_ Hearing to be held



# OHIO Department of TRANSPORTATION

James A. Rhodes/Governor  
David L. Weir/Director  
25 South Front Street  
P. O. Box 899  
Columbus, Ohio 43216

**RECEIVED**  
**MAY 2 1980**

**LOGAN COUNTY  
ENGINEER**

DISTRICT SEVEN  
P.O. Box 381  
Sidney, Ohio  
45365

April 30, 1980

Chester R. Kurtz, P. E.  
Logan County Engineer  
Tidewater Road  
Bellefontaine, Ohio 43311

Subject: Log-C.R. #39 - 4.98

Attention: Rick Bruce

Dear Mr. Bruce:

Attached for your use are examples of news releases on highway projects.

Also included is a copy of the comments from U. S. Fish and Wildlife on the Stream Data information we submitted.

Once a news release is published I usually wait three weeks to see if any comments are received. I then address those comments and pencil draft an Environmental Assessment for your review.

If you have any questions please contact me in Sidney.

Delbert L. Leistner, P. E.  
District Deputy Director

Burley J. Sigman, P. E.  
Planning Engineer

BJS:rba  
Attach.  
cc: File  
Sigman

LOG 7

CR 39-4.98 (PF LOG-017)

April 22, 1980

Delbert Leistner, District Deputy Director

B. Sigman

Dyrd Finley, Jr., Administrator, Bureau of  
Environmental Services  
USFWS Coordination

R. A. Allen, Jr.

Transmitted for your use and information is one copy of the U.S. Fish and Wildlife Service letter dated April 16, 1980, commenting on the stream data for the subject project.



Please note that the U.S. Fish and Wildlife Service had no substantive comments regarding stream coordination for this project.

This letter should be included in the environmental document as evidence of prior coordination with the agency and the comments should be addressed in the document.

BF:RAA:at3

TEL:  
Enclosures

cc: Mr. Tripp, w/a.  
Mr. Pfeifer, w/a.  
Environmental Specialist, FIWA, w/a.  
District 7  
File  
Reading File



# United States Department of the Interior

FISH AND WILDLIFE SERVICE  
Division of Ecological Services  
Columbus Field Office  
3990 East Broad Street  
Columbus, Ohio 43215

IN REPLY REFER TO:

April 16, 1980

Mr. Charles R. Tripp, P.E.  
Administrator  
Bureau of Environmental Services  
Ohio Department of Transportation  
25 South Front Street  
Columbus, Ohio 43215

Dear Mr. Tripp:

This responds to your letters and attached information requesting our comments on the proposed projects described by the following Stream Coordination notifications of a proposed highway action.

<u>Project No.</u>	<u>County</u>	<u>Route/Section</u>	<u>Notice Date</u>
PF 665	Clark	SR 4/16.24	3/26/80
PF 1240	Clinton	SR 134/2.25	3/27/80
PF LUC-89	Lucas	CR 28/2.67	3/27/80
PF LOG-017	Logan	CR 39/4.98	3/27/80
PF 820	Perry	SR 37/1.26	3/28/80
PF WAS-018	Washington	TR 172/0.44	4/1/80

These comments have been prepared under the authority of and in accordance with provisions of the Fish and Wildlife Coordination Act (48 Stat. 401, as amended; 16 U.S.C. 661 et seq.) and in compliance with the intent of the National Environmental Policy Act of 1969.

Based on our review of available information, the U. S. Fish and Wildlife Service does not anticipate significant losses to fish and wildlife resources and would therefore have no objection to the project as currently proposed. If future project designs require any additional instream work, channel shaping, or right-of-way expansion, please provide information depicting this involvement. We will then provide technical assistance comments if warranted.

}\*

These comments do not preclude additional and separate evaluation and comments by the Fish and Wildlife Service, pursuant to the Fish and Wildlife Coordination Act (16 U.S.C. 661, et seq.), if project implementation requires a Federal permit under the Clean Water Act of 1977.

We appreciate the opportunity to provide comments at this early stage of coordination.

Sincerely yours,

  
Kent E. Kroonemeyer  
Supervisor

cc: Chief, Ohio Division of Wildlife, Columbus, OH

12-18-79

FOR IMMEDIATE RELEASE

FROM: DISTRICT SEVEN OHIO DEPARTMENT OF TRANSPORTATION  
SUBJECT: US 40/OHIO 571 IMPROVEMENTS PROPOSED

SIDNEY--Because the accident rate at the US 40/Ohio 571 intersection in Clark County is higher than average, the Ohio Department of Transportation is proposing additional improvements at this location.

District Seven ODOT Deputy Director Delbert L. Leistner, P.E., said proposals are being considered to purchase additional right-of-way for drainage and for improving sight-distance.

The project could include removal of two humps in the profile of US 40 about six hundred feet east of the intersection and the widening of US 40 to allow for turn lanes.

Although not scheduled for construction at this time, ODOT is seeking comments and suggestions from the public on the proposal which, when feasible, will be included in the improvement. Comments should be addressed to: (District Deputy Director, District Seven ODOT, P.O. Box 381, Sidney, OH 45365.) County Engineer or D.D.D.

--30--

Delbert L. Leistner, P.E.  
513-492-1141

These are some of our recent releases to use as a possible example

(As we might overlook the article in the paper(s) if you see it please cut it out and send me a copy)

*Chp. Helman 11/10/66*

FOR IMMEDIATE RELEASE  
FROM: DISTRICT SEVEN OHIO DEPARTMENT OF TRANSPORTATION  
SUBJECT: ODOT PROPOSES BRIDGE REPLACEMENTS

SIDNEY--The Ohio Department of Transportation is planning to replace two bridges over branches of Treacles Creek on US 36 in Champaign County between Yocom Road and Perry Road.

The existing twelve foot bridge will be replaced with twin 53 inch by 93 inch elliptical pipes and approximately four hundred feet of pavement each side of the pipes will be elevated two feet and resurfaced to improve the profile of US 36.

The second bridge, twenty foot long, will be replaced with a 78 inch round pipe. The necessary right-of-way for both improvements has already been secured.

ODOT District 7 Deputy Director Delbert L. Leistner, P.E., said that citizens or organizations with comments on the proposed projects should address them to him at:  
P.O. Box 381, Sidney, OH 45365.

Leistner added that comments received will be incorporated into the design of the improvement, if feasible, and the contract for the work could be let in the Fall of this year.

--30--

Delbert L. Leistner, P.E.  
513-492-1141



FOR IMMEDIATE RELEASE

FROM: DISTRICT SEVEN OHIO DEPARTMENT OF TRANSPORTATION  
SUBJECT: COMMENTS NEEDED ON 202 BRIDGE REPLACEMENT

SIDNEY--The Ohio Department of Transportation is proposing to replace the Ohio 202 bridge over Honey Creek in Bethel Township of Miami County.

The existing bridge is posted for a 20% reduction of legal loads, is narrow and its elevation is below the twenty-five year high water mark.

ODOT District 7 Deputy Director Delbert L. Leistner, P.E., said proposals include a wider bridge above the flood elevation with raised approaches. Approximately 1,300 feet of new pavement with safety slopes will be constructed south of the new bridge and 700 feet north.

As the project is in the planning stage, Leistner urged citizens and groups with comments or opinions on the proposed improvement to express them in writing to: District Seven Deputy Director, P.O. Box 381, Sidney, OH 45365. If feasible, these suggestions will be included in the final design of the bridge replacement.

Leistner added that at this preliminary stage of development, no timetable exists for eventual construction of the project.

--30--

Delbert L. Leistner, P.E.  
513-492-1141

LOGAN COUNTY

BELLEFONTAINE EXAMINER  
P.O. Box 40  
Bellefontaine, Ohio 43311  
Phone: 513/592-3060

\* THE HERALD VOICE\*  
109 East Main Street  
Belle Center, Ohio 43310 ✓  
Phone: 513/464-2322

~~THE ADVERTISER\*  
P.O. Box 358  
West Liberty, Ohio 43357  
Phone: 513/465-4091~~

\* LOGAN COUNTY FARM & HOME NEWS\*  
912 South Detroit Street  
Bellefontaine, Ohio 43311  
Phone: 513/593-7710

WTOO  
P.O. Box 338 (SR 540)  
Bellefontaine, Ohio 43311  
Phone: 513/593-8785

WOGM-FM  
P.O. Box 69  
Bellefontaine, Ohio 43311  
Phone: 513/593-0100

\* denotes weekly publications

We send releases to  
these people in Logan  
County.

## Biology Survey -

1 - call ODNR Dept of Fish -  
Is on present Fish + Streams  
Bulletin

406-8970 2 - call ODNR Natural R + Res.  
Endangered SP - Fed + State  
3 - call Game Warden - CR -  
Fishability location.

— letter of verification to Allen -

a - called ODNR Div R - Date

b - ODNR Div of NRP, on end SP +  
existing, end  
D letter of comment -

c) USFWS - letter 9/6/78 -  
D state agree to use. investigate  
Revised - 3/2/78 Remaining NPQ.  
2) ~~state~~ use quotation on page 2,  
of No long term adverse effect,  
3) state Short Term effect in  
anticipated during construction period  
term only.

Wetlands -

1 - OPND - NA+P - Construction  
Wetland.

2 - FAMS - } CIV. 39

3 - SCS - } J.

4 - O Wetland Summary (Board on  
en 39)

5 - ODNE - Div of Wildlife -

Enter Exam Statement similar to

UP army coll. author's course  
up on completion of app. Personal  
will be performed exam.

## Stream Survey -

Spawning Fish Species - 4 Tinian species

" Benthos - 3 Tinian species

XSP S F

\* SWIWA -

Exist: Davis (Campflow)

Outline for EIS - Fish -

- Existing Corals -

Purposed Plovers

a) Sing Cut.

b) mitigation features - w/ ac stumps

D - input from other agencies.

Impacts of the above (I will kill...)

effects of impacts

honey team

Shed team

lines:

Non-survey

del -

Diagrams -



STATE OF OHIO  
DEPARTMENT OF TRANSPORTATION

County of Logan Dist. 7

S. H. C.R. #39 Sec. 4.98

Date December 14, 1979

INTER-OFFICE COMMUNICATION

To R. B. Pfeiffer, Engr., Bureau of Bridges

Attention: H. Baltzer

From Delbert L. Letstner, District Deputy Director, By: Hugh W. Simpson, Design & Planning

Subject Proposed Bridge Design LOG-C.R. #39 - 4.98 Engineer

Enclosed is one full size and one reduced set of prints for the proposed bridge replacement project over a branch of the South Fork of the Miami River. This project is to be financed in part with Federal "BR" funds.

The plans are being prepared by the Logan County Engineer's office. District Seven has reviewed the submission both in the office and in the field and find the proposed alignment, grade and typical sections acceptable for further plan development and consistent with the policies for "BR" type funding. The amount of channel work shown may be reduced because of environmental considerations.

Please review and comment on the proposed bridge design.

HMS:rba  
Attach.

cc: File  
Stava  
Staman  
Kurtz

**RECEIVED**

**DEC 17 1979**

**LOGAN COUNTY  
ENGINEER**



STATE OF OHIO  
DEPARTMENT OF TRANSPORTATION

INTER-OFFICE COMMUNICATION

AU-76 Rev. 2-79

County	LOG	Dist.	7
Rte./Sec.	CR-39-4.98		
Date	PF LOG-17		
	October 25, 1979		

To Delbert L. Leistner, District Deputy Director Attn. Burley Sigman

From Charles R. Tripp, Administrator, Bureau of Environmental Services By R. A. Allen, Jr.

Subject Wetland and Biological Surveys 1-614 - 466-7100

A survey conducted by a BES biologist on October 18, 1979, indicated that the subject project will not be located either in or adjacent to wetlands as defined in Presidential Executive Order 11990. The results of this determination should be discussed in the appropriate section in the environmental document.

From the project description provided by the District, some channel work will apparently be associated with the subject project. Hence, a biological survey of the unnamed South Fork, Great Miami River tributary will be necessary in order to assess potential project related impacts.

CRT:RAA:hms

cc: Environmental Specialist, FHWA  
District 7  
File  
Reading File

RECEIVED

NOV 5 1979

LOGAN COUNTY  
ENGINEER

Logan

7

C.R. #39

Apr 11 15, 1980

R. B. Pfeiffer, Engineer, Bureau of Bridges

N. Baltzer

Delbert L. Letstner, District Deputy Director

Hugh W. Simpson, Design &  
Planning Engineer

Revised Site Plan

Enclosed are prints of the revised site plan to replace the prints submitted on 12-14-79.

The 800'± of channel work has been eliminated, and all work will now be within the right of way.

HMS:rba

Attach.

cc: File

Stigman

✓ Kurtz



**RECEIVED**

**APR 17 1980**

**LOGAN COUNTY  
ENGINEERING**



Logan

7

CR-39 - 4.96

March 13, 1980

C. R. Tripp, Admin., Bur. Environmental Services

R. A. Allen

Delbert L. Leistner, District Deputy Director

Burley J. Sligman, Planning Engr.

Stream Data Form, P.F. No. LOG-017

Attached for your further processing are seven copies of the Stream Data Form, site map, and location map for a bridge replacement project in Logan County.

Originally the County Engineer had proposed to do 800± of channel relocation. However, due to the environmental problems he has decided to reduce the amount of channel work to that shown on the attached site plan. The work now proposed is within the right of way and involves only the minor shaping needed to place the Rock Channel Protection.

*RS*  
BJS:yba  
Attach.

cc: Wile  
Logan County Engr. ✓  
Sligman

RECEIVED

MAR 19 1980

LOGAN COUNTY  
ENGINEERING

COPY

March 13, 1980

Ohio Department of Transportation  
District 7  
P.O. Box 381  
Sidney, Ohio 45365

Attention: Mr. Burley Sigman, Planning Engineer

Re: Log Br. 39-4.98

Dear Burley:

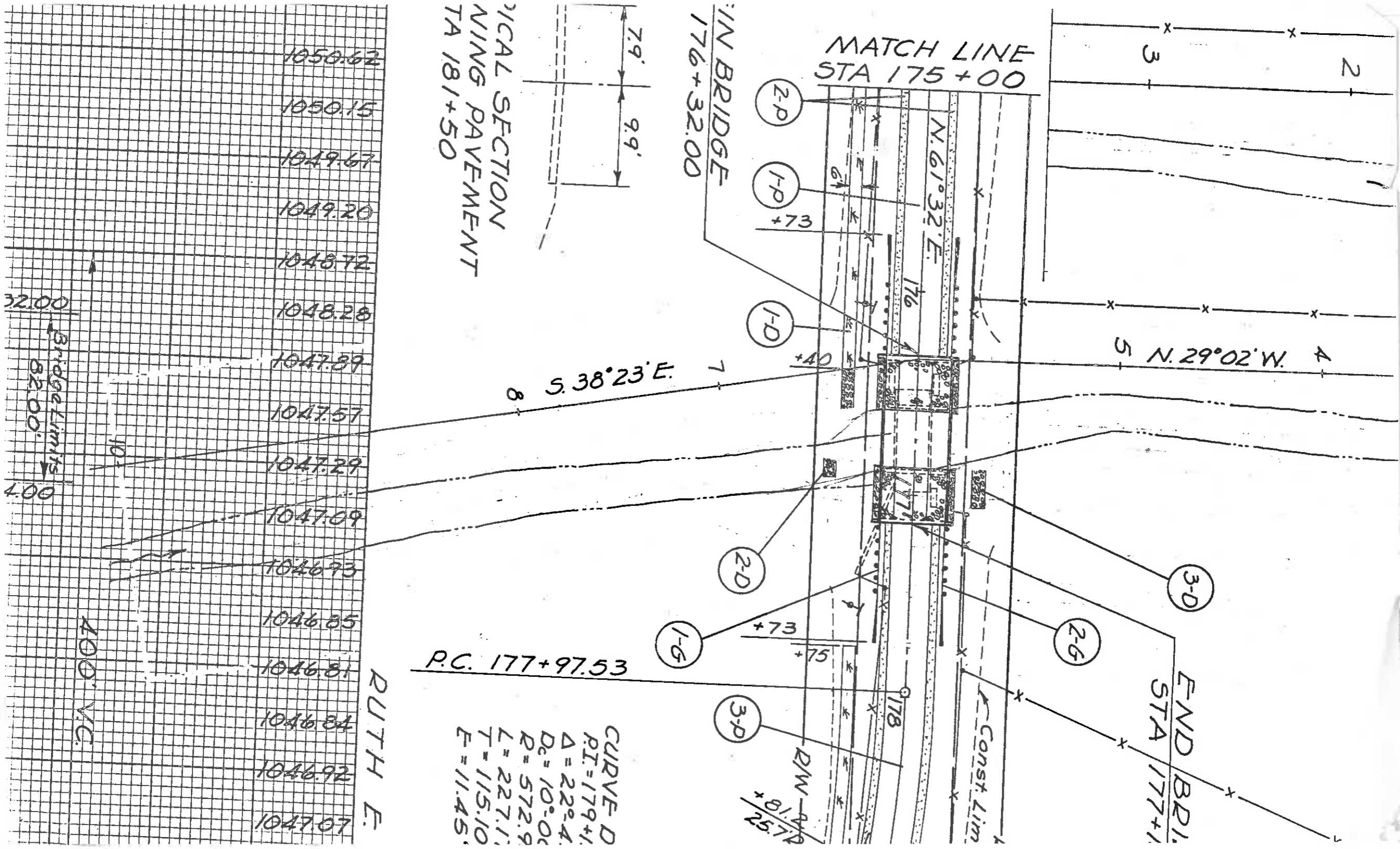
Due to environmental considerations we have decided to reduce the amount of channel work on the above referenced bridge replacement project. Please find enclosed a print of the revised site plan showing the proposed channel work, which is now contained within the proposed right-of-way.

Sincerely,



Chester R. Kurtz, P.E., P.S.  
Logan County Engineer

CRK:RAB:jr  
enc.

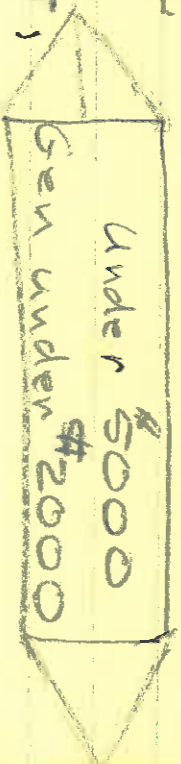


614-466-7100

3-11-80

Tom Linkers - B.E.S.

Fish & Wildlife Act,



Study

Biological Survey; old Water Quality

ERG; in Cleveland; firm

Alternatives

1. Reduce work
2. Handling of ft
- 3.

1-492-1141

3-11-80

Called District 7

Barley ~~\_\_\_\_\_~~ Sigman

Revised Site Plan



STATE OF OHIO  
DEPARTMENT OF TRANSPORTATION

INTER-OFFICE COMMUNICATION

County of LOGAN Dist. 7

S. H. CR 39 Sec. 4.98

Date September 25, 1979

To Delbert Leistner, District Deputy Director Attention: Hugh Simpson

From R. E. Catlin, Special Deputy Administering Officer, Ohio Department of Transportation Clearinghouse

Subject ODOT Clearinghouse "Early Coordination" Documentation - LOG-CR 39-4.98;  
PF-LOG-17

The "Early Coordination" requirement (in compliance with the Federal Highway Administration's Federal-aid Highway Program Manual Volume 7, Chapter 7, Section 2 and Volume 7, Chapter 7, Section 1) has been completed for the subject project.

The original copies of all comments received from the review are enclosed for your use in future work on the subject project.

Late comments from that review will be forwarded upon receipt.

All comments must be considered and/or resolved during further project development.

Please keep this office informed of any correspondence initiated to resolve any of the comments.

R. E. Catlin  
Special Deputy Administering  
Officer  
ODOT Clearinghouse

REC/hd

Attachments

cc: FHWA--w/atcc.  
File  
Reading

## EARLY COORDINATION MAILING LIST

Those agencies from which comments were requested are indicated by an "X"

### STATE AGENCIES

- ( X ) Department of Natural Resources
- ( X ) Department of Mental Health and Mental Retardation
- ( X ) Department of Administrative Services
- ( X ) Department of Health
- ( X ) Department of Highway Safety
- ( X ) Ohio Historical Society
- ( X ) Ohio Board of Regents
- ( X ) Ohio Environmental Protection Agency

### METROPOLITAN STUDY AGENCY

( )

### FEDERAL AGENCIES

- ( X ) Department of the Interior:
  - Fish and Wildlife Service, Div. of Ecological Services
  - Fish and Wildlife Service, Office of Endangered Species
  - National Park Service
  - U.S. Geological Survey
  - Heritage Conservation and Recreation Service
  - Bureau of Mines
- ( X ) Environmental Protection Agency
- ( X ) Department of Housing and Urban Development
- ( ) Department of Health, Education, and Welfare
- ( X ) Department of Agriculture
  - ( ) Bureau of Commercial Fisheries
  - ( ) U.S. Army Corps of Engineers
  - ( ) U.S. Coast Guard
  - ( ) Economic Development Administration

### STATEWIDE AGENCIES

( ) Ohio Environmental Council

LOG-CR 39-4.98  
PF-LOG-17  
OH-TIP79-083

THE OHIO DEPARTMENT OF  
NATURAL RESOURCES

# Memo

TO: R.E. Catlin, Special Deputy Administering Officer  
Ohio Department of Transportation DATE: September 19, 1979

FROM: Roger D. Hubbell, Assistant Chief *RH*  
Office of Outdoor Recreation Services

SUBJECT: EARLY COORDINATION LOG CR 39-4.98

This Department has completed a review of the above referenced project. At this time we foresee no significant adverse environmental impacts that would result from the completion of the proposed project. Furthermore, there are no known endangered species that would be affected by the project.

RDH:sjd

OHIO DEPARTMENT OF TRANSPORTATION  
ENVIRONMENTAL FACTORS CHECKLIST

08-17-79  
PF-LOG-17  
OH-TIP79-083

COUNTY: LOGAN

ROUTE: CR 39

SECTION: 4.98

INSTRUCTIONS - The information requested in this report is required for evaluation of criteria related to the improvement of highway services in the area shown on the attached map. Please complete this form and return to Mr. R. E. Catlin, Chief Engineer of Planning and Design, Ohio Department of Transportation, 25 South Front Street, P. O. Box 899, Columbus, Ohio 43216.

Check Marks should be placed in those blanks where your agency has expertise pertaining to the items covered. Written descriptions or discussions are solicited. Identify location on the attached map if possible, returning it with this form. Suggestions as to the source of additional data will also be welcomed. Please use reverse side or separate sheets for additional comments if necessary.

SIGNATURE AND RETURN ADDRESS MUST be completed to permit verification of data by the Department.

Yes No

1. \_\_\_ \_\_\_ Do unique ( )geographic, ( )geologic, ( )geophysical, ( )topographic features exist in this area? Description \_\_\_\_\_
2. \_\_\_ \_\_\_ Have ( )existing, ( )potential mineral resources been identified in this area? Description \_\_\_\_\_
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 Electricity \_\_\_\_\_ Water \_\_\_\_\_  
 Sewage disposal \_\_\_\_\_ Solid waste disposal \_\_\_\_\_  
 Other \_\_\_\_\_

18. OTHER COMMENTS: Please use reverse side or separate sheets.

SIGNATURE [Signature]

ADDRESS OHIO DEPARTMENT OF NATURAL RESOURCES

TITLE Ecological Analyst

DIVISION OF NATURAL AREAS & PRESERVES

ORGANIZATION \_\_\_\_\_

FOUNTAIN SQUARE BUILDING F

DATE 9/5/79

COLUMBUS, OHIO 43224

TELEPHONE NO. 466 2970



OHIO DEPARTMENT OF TRANSPORTATION  
ENVIRONMENTAL FACTORS CHECKLIST

08-17-79  
PF-LOG-17  
OH-TIP79-083

COUNTY: LOGAN

ROUTE: CR 39

SECTION: 4.98

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Electricity \_\_\_\_\_ Water \_\_\_\_\_  
Sewage disposal \_\_\_\_\_ Solid waste disposal \_\_\_\_\_  
Other \_\_\_\_\_

18. OTHER COMMENTS: Please use reverse side or separate sheets.

SIGNATURE [Signature] ADDRESS 30 E. Du. St.  
TITLE Admin.  
ORGANIZATION PA & Dev. Div.  
DATE 8/20/79 TELEPHONE NO. 466-4780

OHIO DEPARTMENT OF TRANSPORTATION  
ENVIRONMENTAL FACTORS CHECKLIST

08-17-79  
PF-LOG-17  
OH-TIP79-083

COUNTY: LOGAN

ROUTE: CR 39

SECTION: 4.98

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Police _____	Fire _____
Ambulance _____	Gas _____
Electricity _____	Water _____
Sewage disposal _____	Solid waste disposal _____
Other _____	

18. OTHER COMMENTS: Please use reverse side or separate sheets. *No Comments*

SIGNATURE *Kenneth J. Stewart* ADDRESS *248 Parsons Ave. Col. O. 43205*

TITLE *Chief of Field Services*

ORGANIZATION *Ohio Dept. of Highway Safety*

DATE *8-20-79* TELEPHONE NO. *614-466-3275*

COUNTY: LOGAN

ROUTE: CR 39

SECTION: 4.98

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Other _____	

8. OTHER COMMENTS: Please use reverse side or separate sheets.

SIGNATURE Bert C Brenner, Head ADDRESS Ohio Historic Preservation Office  
Review and Compliance Dept. Ohio Historical Center  
Organization I-71 and 17th Avenue  
Columbus, Ohio 43216

DATE Aug 17, 1979 TELEPHONE NO. 466-1500 ext. 266

OHIO DEPARTMENT OF TRANSPORTATION  
ENVIRONMENTAL FACTORS CHECKLIST

08-17-79  
PF-LOG-17  
OH-TIP79-083

COUNTY: LOGAN

ROUTE: CR 39

SECTION: 4.98

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 Electricity \_\_\_\_\_ Water \_\_\_\_\_  
 Sewage disposal \_\_\_\_\_ Solid waste disposal \_\_\_\_\_  
 Other \_\_\_\_\_

18. OTHER COMMENTS: Please use reverse side or separate sheets. No comment

SIGNATURE Carl Wilhelm ADDRESS 361 E. Broad

TITLE Planning Coordinator

ORGANIZATION OEPA

DATE 8-22-79 TELEPHONE NO. 466-8866



# United States Department of the Interior

FISH AND WILDLIFE SERVICE  
Division of Ecological Services  
Columbus Field Office  
3990 East Broad Street  
Columbus, Ohio 43215

IN REPLY REFER TO:

September 6, 1979

Mr. R. E. Catlin  
Chief Engineer of Planning and Design  
Ohio Department of Transportation  
25 South Front Street  
Columbus, Ohio 43215

Dear Mr. Catlin:

This responds to your letters and attached information requesting our comments on the proposed projects described by the following Early Coordination notifications of a proposed highway action.

<u>Project No.</u>	<u>County</u>	<u>Route/Section</u>	<u>Notice Date</u>
OH-TIP79-083	Logan	CR 39/4.98	8/17/79
OH-TIP79-084	Logan	CR 1/5.60	8/17/79
OH-TIP79-085	Champaign	CR 14	8/17/79
OH-TIP79-089	Carroll	SR 39/1.54	8/28/79
OH-TIP79-091	Miami	SR 41/7.78; SR 202/9.94; and SR 504/0.07, 0.40	8/28/79
OH-TIP79-090	Carroll	SR 39/9.70	8/28/79
OH-TIP79-094	Hamilton	SR 126/17.05	8/28/79

These comments provide technical assistance only and do not constitute the report of the Secretary of the Interior on the project within the meaning of Section 2(b) of the Fish and Wildlife Coordination Act, nor do they represent the review comments of the Department of the Interior on any forthcoming environmental impact statement. These comments do not in any way preclude additional and separate evaluation and comments by the Fish and Wildlife Service, pursuant to any requirements for a permit from the Corps of Engineers, U. S. Army (Section 10 of the Rivers and Harbor Act of 1899 and Section 404 of the Clean Water Act of 1977).

The U.S. Fish and Wildlife Service makes the following recommendations:

1. Channelization should be avoided.
2. Any instream work other than that necessary for the placement of coffer dams and piers should be avoided.

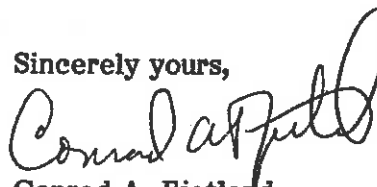
3. Channel shaping, where necessary, should be limited to areas above the mean water level.
4. All stream crossings should not impede the upstream and downstream movement of fish and other aquatic organisms.
5. Temporary crossings, if utilized, should be made with culverts and clean rock fill and should be removed immediately after construction is completed.
6. Cofferdams, if utilized, should be constructed with clean non-erodible material and removed after construction is completed.
7. Erosion control measures should be implemented.
8. Disrupted areas and available right-of-way should be planted with native vegetation of wildlife value.

The above recommendations are designed to mitigate adverse impacts to fish and wildlife resources. If they are implemented, the U.S. Fish and Wildlife Service would not anticipate any significant impacts to fish and wildlife as a result of the proposed projects, and would therefore have no objection to the projects. If, however, your project designs do not or cannot implement the above recommendations, please provide construction plans and any other available information and we will provide additional technical assistance comments.

In accordance with the Endangered Species Act of 1973, as amended, the information you have provided has been forwarded to the Regional Office, U.S. Fish and Wildlife Service, Federal Building, Fort Snelling, Twin Cities, Minnesota 55111. Comments regarding endangered species will be forwarded under separate cover.

Thank you for the opportunity to provide comments at this early stage of coordination. With the exception of the above mentioned endangered species contacts, further correspondence on the project should be conducted directly with this office.

Sincerely yours,



Conrad A. Fjetland  
Supervisor

cc: Chief, ODW, Columbus, OH



# United States Department of the Interior

HERITAGE CONSERVATION AND RECREATION SERVICE  
LAKE CENTRAL REGION  
ANN ARBOR, MICHIGAN 48107

IN REPLY REFER TO:

1202-02 Ohio  
HCRS 9-259

September 18, 1979

Mr. R. E. Catlin  
Chief Engineer of Planning and Design  
Ohio Department of Transportation  
25 South Front Street  
Columbus, Ohio 43215

Dear Mr. Catlin:

This is in response to your request for early coordination and comment concerning the proposed project to replace a bridge over a branch of the South Fork of the Miami River, on C.R. 39, 2.1 miles south of Belle Center in Logan County, Ohio.

Based on the information provided and our general knowledge of the area, it appears the project would not have significant adverse impacts on environmental resources within our area of jurisdiction and expertise. We suggest you confer with the State Historic Preservation Officer about potential impacts the project may have on cultural resources (see enclosed list).

This comment is provided as technical assistance and does not satisfy our obligation under the National Environmental Policy Act with respect to any negative declaration or environmental impact statement which may be prepared.

Sincerely,

Robert L. Pierce, Chief  
Division of Planning Assistance

Enclosure

UNITED STATES DEPARTMENT OF AGRICULTURE

SOIL CONSERVATION SERVICE

---

324 Silver Lake Pike - R. 1  
Bellefontaine, Ohio 43311

August 28, 1979

Mr. R. E. Catlin  
Deputy Director  
Division of Transportation Planning  
Ohio Department of Transportation  
25 South Front Street  
Columbus, Ohio 43216

Dear Mr. Catlin:

In accordance with your recent request to Robert E. Quilliam,  
we are returning to you, Ohio Department of Transportation,  
projects CR 39, Section 4.98 and CR 1, Section 5.60 in  
Logan County, Ohio.

Thank you for the opportunity to comment on these proposals.

Sincerely,

*David Nesser*  
David Nesser  
District Conservationist

Enclosures

cc: Clifton A. Maguire, Acting State Conservationist  
Thomas C. Sommer, Area Conservationist





OHIO DEPARTMENT OF TRANSPORTATION  
ENVIRONMENTAL FACTORS CHECKLIST

08-17-79  
PF-LOG-17  
OH-TIP79-083

COUNTY: LOGAN

ROUTE: CR 39

SECTION: 4.98

INSTRUCTIONS - The information requested in this report is required for evaluation of criteria related to the improvement of highway services in the area shown on the attached map. Please complete this form and return to Mr. R. E. Catlin, Chief Engineer of Planning and Design, Ohio Department of Transportation, 25 South Front Street, P. O. Box 899, Columbus, Ohio 43216.

Check Marks should be placed in those blanks where your agency has expertise pertaining to the items covered. Written descriptions or discussions are solicited. Identify location on the attached map if possible, returning it with this form. Suggestions as to the source of additional data will also be welcomed. Please use reverse side or separate sheets for additional comments if necessary.

SIGNATURE AND RETURN ADDRESS MUST be completed to permit verification of data by the Department.

Yes No

1.  Do unique ( )geographic, ( )geologic, ( )geophysical, ( )topographic features exist in this area? Description \_\_\_\_\_
2.  Have ( )existing, ( )potential mineral resources been identified in this area? Description \_\_\_\_\_
3.  Does the area contain extensive ( )water supply wells, ( )lakes, ( )ponds? Description \_\_\_\_\_
4.  Have ( )known, ( )suspected contamination problems been reported in the ( )water supply wells, ( )lakes, ( )ponds mentioned in item 3 above?
5.  Are some drainage courses subject to (X)flash flooding, ( )siltation, (X)erosion, ( )pollutants? Identify Stream Bank erosion cause by channel clogged with brush.
6.  Are soils in the area susceptible to ( )erosion, ( )landslides, ( )settlement? Description \_\_\_\_\_
7.  Have air pollution problems been reported in this area? Explain \_\_\_\_\_
8.  Are there ( )existing, ( )pending air quality laws for this area? Sponsoring agency \_\_\_\_\_
9.  Do unusual species of fish or wildlife ( )reside, ( )migrate in this area? Name if possible \_\_\_\_\_
10.  Do species of wildlife exist in unusual quantity in this area? Name if possible \_\_\_\_\_
11.  Do unusual species of ( )trees, ( )shrubs, ( )vegetation exist in this area? Name if possible \_\_\_\_\_
12.  Does an unusual ( )quantity, ( )quality of plant life exist in this area? Name if possible \_\_\_\_\_
13.  Which of the following facilities exist in this area: ( )parks, ( )recreation lands, ( )religious institution, ( )athletic fields or buildings, ( )forest or wildlife preserve, ( )educational facility, ( )historic site, ( )eligible historic site, ( )archaeological site, ( )others? \_\_\_\_\_
14.  Which of the following facilities are proposed in this area: ( )parks, ( )recreation lands, ( )religious institution, ( )wildlife preserve, ( )educational facility, ( )industrial complex, ( )subdivision, ( )urban renewal, ( )others? \_\_\_\_\_
15.  Are there planning and development controls for this area? Administered by \_\_\_\_\_
16.  Are there ( )existing, ( )abandoned, ( )rehabilitated sanitary landfills in this area? Identify \_\_\_\_\_
17. Names of agencies providing public services in the area:  
 Police \_\_\_\_\_ Fire \_\_\_\_\_  
 Ambulance \_\_\_\_\_ Gas \_\_\_\_\_  
 Electricity \_\_\_\_\_ Water \_\_\_\_\_  
 Sewage disposal \_\_\_\_\_ Solid waste disposal \_\_\_\_\_  
 Other \_\_\_\_\_

18. OTHER COMMENTS: Please use reverse side or separate sheets.

SIGNATURE David Nesson ADDRESS R#1324 Silver Lake Pike Bellefontaine OH 43111

TITLE District Conservationist

ORGANIZATION Soil Conservation Service

DATE 8-28-79 TELEPHONE NO. 593-2946

39-4.98

Bulletin 45

RAB

10/12/79

$$D.A. = 6400 A_c = 10.78 \text{ sq mi}$$

$$\text{Length} = 23,000' \quad 4.17 \text{ mi} \quad 32,000' \quad 4.2 \text{ mi} \quad 33,000' \quad 4.2 \text{ mi}$$

$$32,000 = 6,066 \text{ mi}$$

$$.11L = 3200 = .6 \text{ mi} \quad 1050$$

$$.85L = 27,200 = 5.15 \text{ mi} \quad 1200$$

$$SL = \frac{1200 - 1050}{5.15 - .61} = \frac{150}{4.54} = 33.04 \text{ ft/mi}$$

$$E = 1050 + 1200/2000 = 1.125$$

$$P = 36 - 27 = 9$$

$$Q_{10} = 17.5 (10.78)^{.743} (33.04)^{.267} (1.125)^{-1.39} (9)^{.769}$$

$$Q_{10} = 1198 \text{ cfs}$$

$$Q_{25} = 23.9 (10.78)^{.735} (33.04)^{.277} (1.125)^{-1.35} (9)^{.750}$$

$$Q_{25} = 1602 \text{ cfs}$$

$$Q_{50} = 29.1 (10.78)^{.732} (33.04)^{.284} (1.125)^{-1.32} (9)^{.732}$$

$$Q_{50} = 1915 \text{ cfs}$$

$$Q_{100} = 34.7 (10.78)^{.729} (33.04)^{.290} (1.125)^{-1.30} (9)^{.718}$$

$$Q_{100} = 2250 \text{ cfs}$$

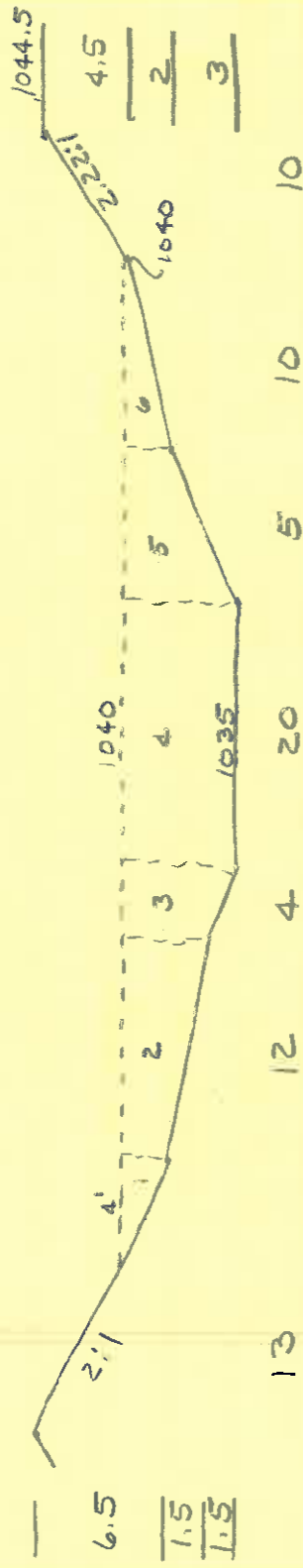
$$Q_{10} = 1200 \text{ cfs} \quad \text{Elev.} = 1040.7 \quad V = 5.5 \text{ fps}$$

$$Q_{25} = 1602 \text{ cfs} \quad \text{Elev.} = 1041.5 \quad V = 6.0 \text{ fps}$$

$$Q_{50} = 1920 \text{ cfs} \quad \text{Elev.} = 1042.1 \quad V = 6.3 \text{ fps}$$

$$Q_{100} = 2250 \text{ cfs} \quad \text{Elev.} = 1042.7 \quad V = 6.6 \text{ fps}$$

STA 7+00  $S = 0.00189$   $S^{1/2} = 0.04346$



Elev 1040

$$\begin{aligned}
 A_1 &= \frac{1}{2}(2)(4) = 4 \text{ ft}^2 & P_1 &= 4.5 & R &= 0.89 & R^{2/3} &= 0.92 & n &= 0.05 \\
 A_2 &= \frac{1}{2}(2+3.5)(2) = 33 & P_2 &= 12.1 & R &= 2.73 & R^{2/3} &= 1.95 & n &= 0.035 \\
 A_3 &= \frac{1}{2}(3.5+5)(4) = 17 & P_3 &= 4.3 & R &= 3.95 & R^{2/3} &= 2.50 & n &= 0.035 \\
 A_4 &= 20(5) = 100 & P_4 &= 20 & R &= 5 & R^{2/3} &= 2.92 & n &= 0.030 \\
 A_5 &= \frac{1}{2}(5+2)(5) = 17.5 & P_5 &= 5.8 & R &= 3.02 & R^{2/3} &= 2.09 & n &= 0.035 \\
 A_6 &= \frac{1}{2}(2)(10) = 10 & P_6 &= 10.2 & R &= .98 & R^{2/3} &= 0.99 & n &= 0.035
 \end{aligned}$$

$$Q = 1.486(0.04346)(74 + 1839 + 1214 + 9733 + 1045 + 283)$$

$$Q = 916 \text{ cfs} \quad V_{AV} = 5.1 \text{ fps}$$

Elev 1041

$$\begin{aligned}
 A_1 &= \frac{1}{2}(3)(6) = 9 & P_1 &= 6.7 & R &= 1.34 & R^{2/3} &= 1.22 & n &= 0.05 \\
 A_2 &= \frac{1}{2}(3+4.5)(2) = 45 & P_2 &= 12.1 & R &= 3.72 & R^{2/3} &= 2.40 & n &= 0.035 \\
 A_3 &= \frac{1}{2}(4.5+6)(4) = 21 & P_3 &= 4.3 & R &= 4.88 & R^{2/3} &= 2.88 & n &= 0.035 \\
 A_4 &= 20(6) = 120 & P_4 &= 20 & R &= 6 & R^{2/3} &= 3.30 & n &= 0.030 \\
 A_5 &= \frac{1}{2}(6+3)(5) = 22.5 & P_5 &= 5.8 & R &= 3.88 & R^{2/3} &= 2.47 & n &= 0.035 \\
 A_6 &= \frac{1}{2}(3+1)(10) = 20 & P_6 &= 10.2 & R &= 1.96 & R^{2/3} &= 1.57 & n &= 0.035 \\
 A_7 &= \frac{1}{2}(2.22) = 1.1 & P_7 &= 2.4 & R &= .46 & R^{2/3} &= .59 & n &= 0.035
 \end{aligned}$$

$$Q = 1.486(0.04346)(220 + 3086 + 1728 + 13200 + 1588 + 897 + 19)$$

$$Q = 1340 \text{ cfs}$$

$$V_{AV} = 5.75 \text{ fps}$$

Elev 1042

$$\begin{aligned}
 A_1 &= \frac{1}{2}(4)(8) = 16 & P_1 &= 8.9 & R &= 1.79 & R^{2/3} &= 1.47 & n &= 0.05 \\
 A_2 &= \frac{1}{2}(4+5.5)(2) = 57 & P_2 &= 12.1 & R &= 4.71 & R^{2/3} &= 2.81 & n &= 0.035 \\
 A_3 &= \frac{1}{2}(5.5+7)(4) = 25 & P_3 &= 4.3 & R &= 5.81 & R^{2/3} &= 3.23 & n &= 0.035 \\
 A_4 &= 20(7) = 140 & P_4 &= 20 & R &= 7.0 & R^{2/3} &= 3.66 & n &= 0.030 \\
 A_5 &= \frac{1}{2}(7+4)(5) = 27.5 & P_5 &= 5.8 & R &= 4.74 & R^{2/3} &= 2.82 & n &= 0.035
 \end{aligned}$$

$$A_6 = \frac{1}{2}(4+2)10 = 30 \quad P_6 = 10.2 \quad R = 2.94 \quad R^{2/3} = 2.05 \quad n = 0.035$$

$$A_7 = \frac{1}{2}(2)(4.4) = 4.4 \quad P_7 = 4.8 \quad R = .92 \quad R^{2/3} = .94 \quad n = 0.035$$

$$Q = 1.486(.04346)(470 + 4576 + 2307 + 17080 + 2216 + 1757 + 118)$$

$$Q = 1842 \text{ cfs}$$

$$V_{AV} = 6.26 \text{ fps}$$

Elev 1043

$$A_1 = \frac{1}{2}(5)10 = 25 \quad P_1 = 11.2 \quad R = 2.24 \quad R^{2/3} = 1.71 \quad n = 0.050$$

$$A_2 = \frac{1}{2}(5+6.5)12 = 69 \quad P_2 = 12.1 \quad R = 5.70 \quad R^{2/3} = 3.19 \quad n = 0.035$$

$$A_3 = \frac{1}{2}(6.5+8)4 = 29 \quad P_3 = 4.3 \quad R = 6.74 \quad R^{2/3} = 3.57 \quad n = 0.035$$

$$A_4 = 20(8) = 160 \quad P_4 = 20 \quad R = 8 \quad R^{2/3} = 4.0 \quad n = 0.030$$

$$A_5 = \frac{1}{2}(8+5)5 = 32.5 \quad P_5 = 5.8 \quad R = 5.60 \quad R^{2/3} = 3.15 \quad n = 0.035$$

$$A_6 = \frac{1}{2}(5+3)10 = 40 \quad P_6 = 10.2 \quad R = 3.92 \quad R^{2/3} = 2.49 \quad n = 0.035$$

$$A_7 = \frac{1}{2}(3)(6.7) = 10 \quad P_7 = 7.3 \quad R = 1.37 \quad R^{2/3} = 1.23 \quad n = 0.035$$

$$Q = 1.486(.04346)(855 + 6289 + 2958 + 21333 + 2925 + 2846 + 351)$$

$$Q = 2425$$

$$V_{AV} = 6.74 \text{ fps}$$

Elev 1042.5

$$A_1 = \frac{1}{2}(4.5)(9) = 20.3 \quad P_1 = 10.1 \quad R = 2.02 \quad R^{2/3} = 1.60 \quad n = 0.050$$

$$A_2 = \frac{1}{2}(4.5+6)(12) = 63 \quad P_2 = 12.1 \quad R = 5.21 \quad R^{2/3} = 3.00 \quad n = 0.035$$

$$A_3 = \frac{1}{2}(6+7.5)4 = 27 \quad P_3 = 4.3 \quad R = 6.28 \quad R^{2/3} = 3.40 \quad n = 0.035$$

$$A_4 = 20(7.5) = 150 \quad P_4 = 20 \quad R = 7.5 \quad R^{2/3} = 3.83 \quad n = 0.030$$

$$A_5 = \frac{1}{2}(7.5+4.5)(5) = 30 \quad P_5 = 5.8 \quad R = 5.17 \quad R^{2/3} = 3.00 \quad n = 0.035$$

$$A_6 = \frac{1}{2}(4.5+2.5)10 = 35 \quad P_6 = 10.2 \quad R = 3.43 \quad R^{2/3} = 2.27 \quad n = 0.035$$

$$A_7 = \frac{1}{2}(2.5)(6.6) = 6.9 \quad P_7 = 6.1 \quad R = 1.13 \quad R^{2/3} = 1.09 \quad n = 0.035$$

$$Q = 1.486(.04346)(650 + 5400 + 2623 + 19150 + 2571 + 2270 + 215)$$

$$Q = 2123 \text{ cfs}$$

$$V_{AV} = 6.39 \text{ fps}$$

Call Burley & see if the below would suffice for Biological Survey. (Get B.A. Allen's Phone #)  
CR 39-4,98 1-614-466-7100

1. Try to obtain study for Belle Center sewer system if there is one.

2. ODNR - Dept. of Fish,  
(Try 843-5391) (Wildlife St. Rt. 368)

District 2, Office, 843-2717; Dep. Chief, Hammond, 843-43

3. ODNR - Division of Natural Areas & Preserves  
(466-8970) (Ecological Analyst)

4. Game Warden -

Questions always put down the name & date

#2 - Existing fish & condition of the stream  
(also Benthos) (water Quality)

Ask on the phone & then ask if we send  
a letter would they return one?  
(effects downstream?)

#3 - Ask if they know of any endangered  
species, either Federal or State, in the  
area. (obtain letter)

#4 - Has he ever seen anyone fishing in the  
stream. any other significant facts.

LOG

13R

39-4.98

↳ not C.R.

X BEGIN WORK STA 170+00.00  
 X END WORK STA 181+50.00  
 X BEGIN PROJECT STA 170+50.00  
 X END PROJECT STA 181+25.00

X TOTAL LENGTH OF WORK = 1150.00 L.F. or 0.218 M.  
 X TOTAL LENGTH OF PROJECT = 1075.00 L.F. or 0.204 mi.

INDEX OF SHEETS

X	TITLE SHEET	1
X	TYPICAL SECTIONS	2
X	GENERAL NOTES & GENERAL SUMMARY	3
X	PLAN - PROFILE	4-5
X	CROSS SECTIONS C.R. 39	6-10
X	CROSS SECTIONS CHANNEL	11
X	STRUCTURES OVER 20'	12-16
X	RIGHT OF WAY	17

BE 39-4.98 PAVEMENT DESIGN

B-8-79  
RAB

1980 ADT 475 with 8% , P+A = 437 B+C = 38  
 2000 ADT 775 with 8% , P+A = 713 B+C = 62  
 B to C = 311

Average ADT =  $\frac{475+775}{2} = 625$

B+C = .08(625) = 50

B = 37.5

C = 12.5

F-18's  $\Rightarrow 1,068(37.5) + 311(12.5) = 43.9$

Assume G.I. of 9

$\therefore$  CBR = 6.0 SSV = 46 K = 155

P<sub>t</sub> = 2.5

$\bar{SN} = 2.68$

SN = 2.85

$2.85 / .135 = 8.14''$

\* 40/cu yd

\* 40/cu yd

\* 47/cu yd

\* 10.61/sq yd.

1 1/4" 404  $\Rightarrow$  0.44

1 1/4" 402 or 403  $\Rightarrow$  0.44

6" 301  $\Rightarrow$  2.10

8 1/2"  $\frac{2.98 > 2.85 \text{ (OK)}}{2.98}$

\* 3,000

\* 40/cu yd

\* 40/cu yd

\* 18/cu yd

\* 9.78/sq yd

1 1/4" 404  $\Rightarrow$  0.44

1 1/4" 402  $\Rightarrow$  0.44

14" 304  $\Rightarrow$  1.96

2.84

1 1/2" 404 = 0.53

3" 402 = 1.05

9" 304  $\Rightarrow$  1.26

2.84

\* 25,700

\* 9.50/sq yd \* 28,000

STREAM DATA FORM

County LOG Date Oct 31, 1979  
Route and Section CR-39  
Stream Name \_\_\_\_\_ P.F. \_\_\_\_\_

EXISTING CONDITIONS

- a. Is the stream flow: Year-round  Intermittant \_\_\_\_\_
- b. Drainage area: 10.8 Sq. mi
- c. Average width: 20' Average depth: 6"  
Type of bottom: GRAVEL  
Are pools evident in the project area?  
1. Upstream NO distance from centerline \_\_\_\_\_  
2. Downstream NO distance from centerline \_\_\_\_\_
- d. Average height of banks: 8'  
Vegetation on banks: grass & weeds with some brush
- e. Visible pollution: \_\_\_\_\_
- f. Is erosion evident along the banks and in the surrounding watershed?  
Yes \_\_\_\_\_ No \_\_\_\_\_
- g. Is existing structure to be replaced? Yes \_\_\_\_\_ No \_\_\_\_\_

DESIGN

- a. Is the project on new grade? Yes  No \_\_\_\_\_
- b. Is the project on new alignment? Yes \_\_\_\_\_ No   
Description SEE ATTACHED SITE PLAN
- c. Is new right of way required? Yes  No \_\_\_\_\_  
Description SEE ATTACHED SITE PLAN
- d. Is the channel being deepened? Yes \_\_\_\_\_ No   
widened? Yes \_\_\_\_\_ No   
relocated? Yes  No \_\_\_\_\_  
shaped at the structure? Yes  No \_\_\_\_\_  
Length of work upstream 400'  
Length of work downstream 400'  
Structure Width or Culvert Length 33'-4"

- e. Are any elements being placed within the water? Yes  No \_\_\_\_\_  
Type of pier construction (if applicable):  
Capped piles  Footers \_\_\_\_\_  
Culvert dimension (if applicable): \_\_\_\_\_
- f. Is the proposed waterway opening equal to or greater than the existing waterway opening? (use same datum base) Yes \_\_\_\_\_ No \_\_\_\_\_
- g. If the waterway opening is reduced, what is the percent reduction? \_\_\_\_\_ %
- h. For Off-system Projects only.  
The County Engineer has determined that a bridge replacement in kind with respect to waterway opening is in the public interest based upon past flood experiences. Yes \_\_\_\_\_ No \_\_\_\_\_  
\_\_\_\_\_  
County Engineer

CONSTRUCTION

- a. Will cofferdams be required? Yes \_\_\_\_\_ No
- b. Is it likely that a temporary crossing or ford will be developed in conjunction with the project (either for the contractor's equipment or for vehicular traffic)? Yes \_\_\_\_\_ No

Prepared by Pick Bruce

Firm or Agency Logan County



5/1/00  
 105  
 57 6\*

48.70

	<u>TAN</u>	<u>Δ</u>	<u>Elev</u>
176	1048.72	0	1048.72
+25	1048.25	+1.03	1048.28
+50	1047.77	+1.12	1047.89
+75	1047.30	+1.27	1047.57
177	1046.82	+1.47	1047.29
+25	1046.35	+1.74	1047.09
+50	1045.87	+1.06	1046.93
+75	1045.40	+1.45	1046.85
178	1044.92	+1.89	1046.81
+25	1046.39	+1.45	1046.84
+50	1045.86	+1.06	1046.92
+75	1046.33	+1.74	1047.07
179	1046.80	+1.47	1047.27
+25	1047.27	+1.27	1047.54
+50	1047.74	+1.12	1047.86
+75	1048.21	+1.03	1048.24
180	1048.68	0	1048.68
	<u>TAN</u>		<u>TAN</u>
170+75	1058.70		180 1048.68
171	1058.22		+50 1049.62
+50	1057.27		181 1050.56
172	1056.32		+25 1051.03
+50	1055.37		
173	1054.42		
+50	1053.47		
174	1052.52		
+50	1051.57		
175	1050.62		
+50	1049.67		
176	1048.72		

CURVE #1

0.17

$\Delta = 22^\circ - 08'$

$D_c = 10^\circ - 00'$

$R = 572.96'$

$T = 112.06$

$E = 10.86$

$L_c = 221.33$

$T = R \tan \frac{\Delta}{2}$

$E = R \cos \frac{\Delta}{2}$

$P.I. = 173 + 33.35$

$P.C. = 172 + 21.29$

on Tangent P.T. = 174 + 45.41

(Curve Sta. = 174 + 42.62)

STATION	LEFT EDGE PAVEMENT	GRADE ELEV.	RIGHT EDGE PAVEMENT
171 + 21.29			
+46.29			
+71.29			
+96.29			
P.C. 172 + 21.29			
+25			
+50			
+75			
173 + 00			
+25			
+50			
+75			
174 + 00			
+25			
P.T. 174 + 45.41			
+70.41			
+95.41			
175 + 20.41			
175 + 45.41			

RAB  
1-30-79

BR 39-498

## PROPOSED STRUCTURE

1. CONTINUOUS REINFORCED CONCRETE SLAB
2. Spans: 24 - 30 - 24
3. Rdway Width: 32'-0"
4. Design loading: HS20-44
5. SKEW: 0°

### ABUTMENTS CAPPED PILE

CPA-2-73 14"  $\phi$  cast-in-place reinforced concrete  
7 piles, spaced @ 5'-6", Load = 22 Tons

### SLAB Reinforced concrete

CS-2-73 Width = 32 + 1'-4" = 33'-4"

Depth = 15 $\frac{3}{4}$ "

### PIERS

CPP-2-73 Cap Length: 32'-0"

Cap Width: 2'-6"

Cap Depth: 2'-0" + CROWN

6 piles, spaced @ 5'-9", Load = 36 Tons

### Roadway

1999 ADT = 650  $\pm$

32'-0" width Between guardrail = 32'-0"

1'-4" Roadway width = Slab width + 2'-8"

2'-0" 11'-0" = 33'-4" + 2'-8" = 36'-0"

36'-0"

Use 22' wide pavement and 7'-0" shoulders

3'-1 1/2"  
37 1/2"

### Lap Splice Lengths

@ midspan	Tension Splices	Compression
Com	T801 39" ✓	30" 2'-6"
Com	T501 16" ✓	19" 1'-7"
Com	T503 16" ✓	19" 1'-7"
Ten	T1001 70" ✓	38" 3'-2"
@ midspan		
	P501 16" ✓	19" 1'-7"
Ten	P901 49" ✓	34" 2'-10"
Comp	P1001 70" ✓	38" 3'-2"

Compression Laps = 30 x diameter

N401 comp = 15"

M601 ten = 17" comp = 23"

BE 39-4.98

CURVE #1

3-6-79  
RAB

$A = 22^{\circ} - 08'$

$D_c = 10^{\circ} - 00'$

$R = 572.96$

Deflection per ft. =  $\frac{11^{\circ} 04'}{221.33} = 3.00''/ft$

$T = 112.06$

$E = 10.86$

$L_c = 221.33$

P.I. @ Sta 173 + 33.35

P.C. @ Sta 172 + 21.29

P.T. @ Sta 174 + 42.62 Curve Stationing (174 + 45.41 <sup>Tangent station</sup>)

STA.	ARC DIST.	$0^{\circ} 03.00''/ft$ DEFLECTION	TOTAL DEFL.
172+21.29			
+25	3.71	$0^{\circ} 11.1'$	$0^{\circ} 11.1'$ ✓
+50	25	$1^{\circ} 15.0'$	$1^{\circ} 26.1'$ ✓
+75	"	"	$2^{\circ} 41.1'$ ✓
173+00	"	"	$3^{\circ} 56.1'$ ✓
+25	"	"	$5^{\circ} 11.1'$ ✓
+50	"	"	$6^{\circ} 26.1'$ ✓
+75	"	"	$7^{\circ} 41.1'$ ✓
174+00	"	"	$8^{\circ} 56.1'$ ✓
+25	"	"	$10^{\circ} 11.1'$ ✓
+42.62	17.62	$0^{\circ} 52.9'$	$11^{\circ} 04.0' = \frac{1}{2}$

11 204.0'

(near 177+97.53)

P.C. 177+97.53

P.T. 174+42.62

177+00 to P.C. 177+97.53

is 0.19' over.

352.91

0.19

meas. dist. is 355.10

170+00

X - stations are 50' - 50' / 100'

582.07

BR 39-4.98

3-6-78  
RAB

CURVE #2

New Station For P.I. =  $(174 + 42.62) + 582.07 - 112.06 \Rightarrow$

179 + 12.63

A =  $22^{\circ} 43'$

D<sub>c</sub> =  $10^{\circ} 00'$

R = 572.96

T = 115.10

E = 11.45'

L<sub>c</sub> = 227.17'

Deflection per ft. =  $\frac{11^{\circ} 21.5'}{227.17} = 3.00' / \text{ft.}$

P.I. = 179 + 12.63

P.C. = 177 + 97.53

P.T. = 180 + 24.70

STA	ARC DIST	DEFLECTION	TOTAL DEFL.
177+97.53			
178+00	2.47	0° 07.4'	0° 07.4'
+25	25	1° 15.0'	1° 22.4' ✓
+50	"	"	2° 37.4' ✓
+75	"	"	3° 52.4' ✓
179+00	"	"	5° 07.4' ✓
+25	"	"	6° 22.4' ✓
+50	"	"	7° 37.4' ✓
+75	"	"	8° 52.4' ✓
180+00	"	"	10° 07.4' ✓
+24.70	24.70	1° 14.1'	11° 21.5' = 4/2

(24.65)

11° 21.5'  
100% MAG

582.07  
179.10

STATION EQUATION @ INTERSECTION

182 + 76.10 BACK = 182 + 81.92 Ahead 5.82

P.T. 180+24.70

$1716 + 50$   
 $177 + 15$

$2^2 = 0.71$   
 $177 \times 207$   
 $608 - 22.0$

$\Sigma I$

$2.2^2 = 0.3.0$   
 $2.0.2^2 = 0.8.2$   
 $1.80^2 = 0.2.0$

$177 + 97.72$   
 $\frac{97.53}{19}$

$\Sigma I$

$2.2^2 = 4.1.8$   
 $2.0.2^2 = 4.2.0$   
 $1.80^2 = 0.0.0$

P.C.  $177 + 97.53$  calc  
 meas.  $177 + 97.72$   
 0.19

F.O.  $177 + 97.53$   
 F.T.  $177 + 97.67$

$\frac{1354.91}{19}$   
 meas.  $355.10$

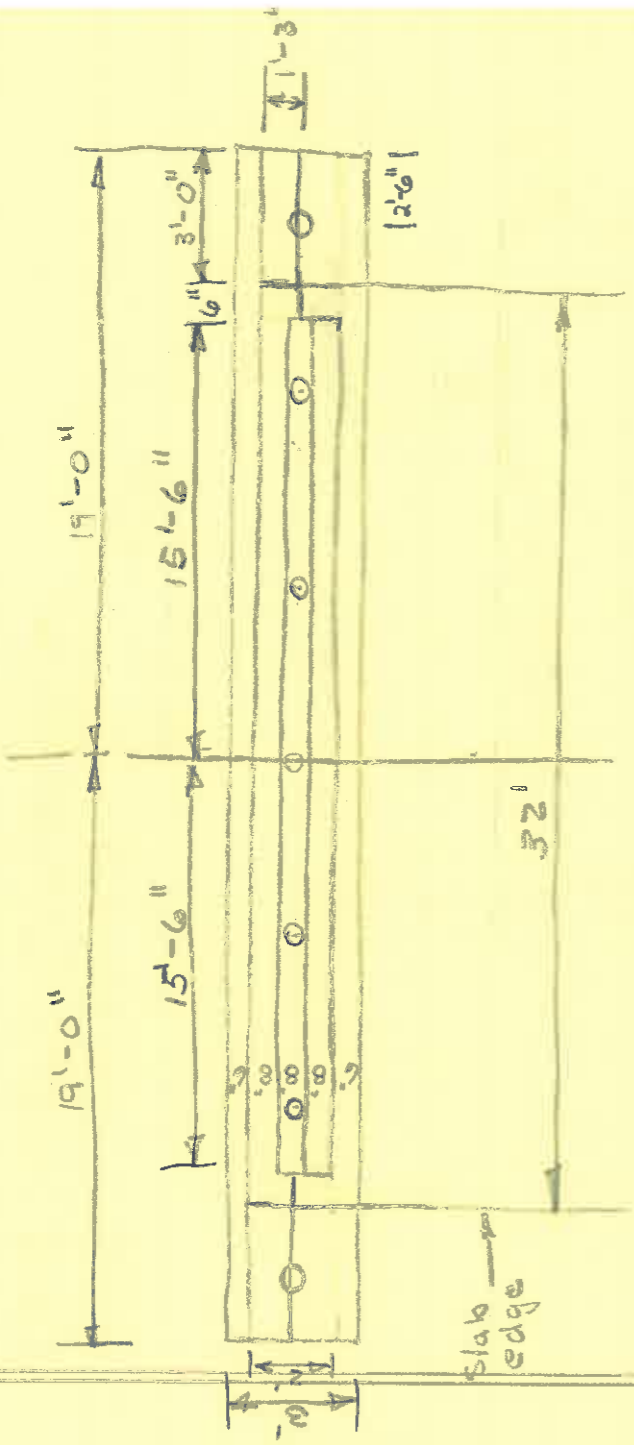
0.19

0.19





$$\frac{1'3\frac{1}{2}''}{2'-0''} = \frac{3'8\frac{1}{2}''}{3'8\frac{1}{2}''}$$



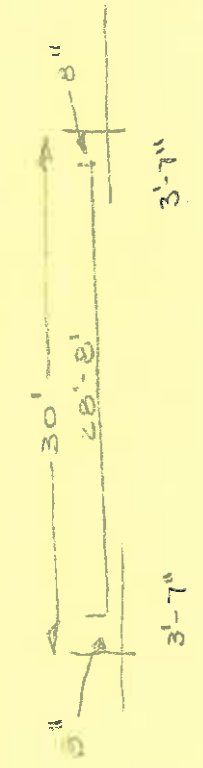
7 piles  $\Rightarrow$  6 space @ 5'-6" = 33'

T401 1'-9" % x 2'-4 3/4" %  
 T502 2'-0" x 2'-6" %

$$\frac{2'-12''}{7 \frac{1}{4}} = \frac{2'-15''}{7 \frac{1}{2}} = \frac{2'-7 \frac{3}{4}''}{7 \frac{1}{4}} = \frac{2'-12''}{7 \frac{1}{4}} = \frac{2'-4 \frac{3}{4}''}{T401}$$

$$\frac{15}{150} = \frac{20}{300} = \frac{1.5 \sqrt{300}}{30}$$

38'-2"  
-37'-8"  
6"



25'-2"  
39'-4"  
34"  
41'-4"  
25'-10"  
2'-0"

adding 9" on end of slab

+ A Bars

A924 Spc 14 1/2" L = 28'-8" 29'-3"

28'-3" 29'-5" 11"  
3'-5"

20'-5"  
29'-5"  
9'-0"

+ B Bars

B924 Spc 29" L = 21'-3" b = 20'-0"

3.17  
50  
7

25'-10"  
20'-9"  
5'-1"

+9" L = 22'-0" b = 20'-9"

+ C Bars

C924 Spc 29" L = 19'-8" c = 18'-5"

25'-10"  
19'-2"  
6'-8"

+9" L = 20'-5" c = 19'-2"

OK

D Bars

D924 Spc 29" L = 18'-11"

29'-12"  
18'-11"  
11'-1"  
5'-6 1/2"

OK

E Bars

E924 Spc 29" L = 15'-7"

29'-12"  
15'-7"  
14'-5"  
5'-2 1/2"

OK

F Bars

F924 Spc 13" L = 18'-4" f = 9'-5"

OK

G Bars

G924 Spc = 26" h = 9'-9" g = 5'-0"

OK

H Bars

H924 Spc 26" L = 6'-11" h = 3'-7"

+ J 501

Spc 13" L = 17'-6" +9" => L = 18'-3"

OK

K 501

Spc 13" L = 15'-10" r = 1"

M 601

No = 73 Spc m = 15"

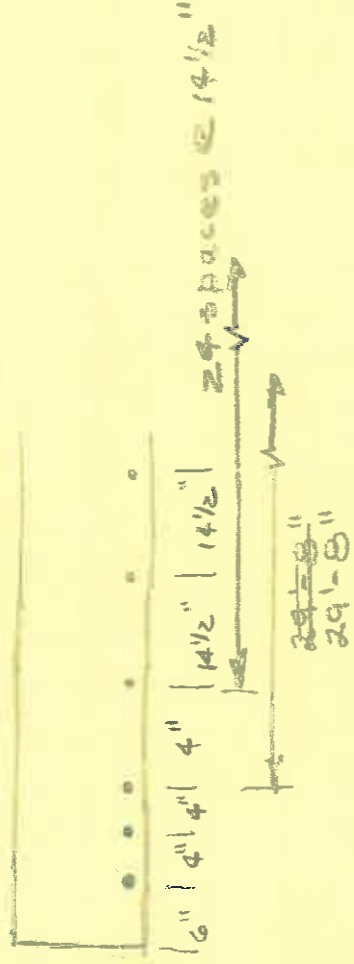
~~M 401~~ M 402

No. = 130

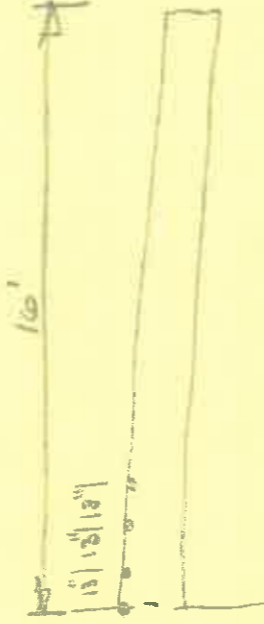
N 401

No = 81

12"



24 spaces @ 14 1/2"

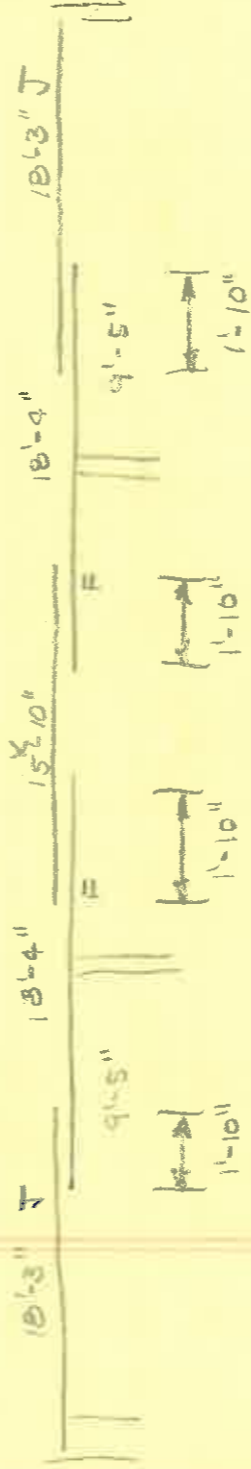


4 spaces @ 12" = 15.167' = 15'-2 1/4"

+ 6.5"  
15' 8 1/2"

cover = 3 1/2"

17' 16"  
18'-4"  
9'-5"  
8' 11"



25'-10"

18'-3"  
9'-5"  
27'-8"  
25'-10"  
1'-10"

29'-12"  
15'-10"  
14'-2"  
8'-11"  
7'-11"  
1'-10"

W6x25 d = 6 3/8" bf = 6 1/8" Af = 7.16 tw = 5/16"

27'-8" = 18'-8 1/2"  
9'-0"

$$\begin{array}{r} 32'-0'' \\ -1'-4'' \\ \hline 33'-4'' \\ -11'-4'' \\ \hline 22'-0'' \\ -2'-8'' \\ \hline 29'-2'' \\ -2'-10'' \\ \hline 1'-6'' \end{array}$$

$$\begin{array}{r} 5 \\ \times 516 \\ \hline 30 \\ 258 \\ \hline 2580 \end{array}$$

$$\begin{array}{r} 15.5 \\ \times 3 \\ \hline 46.5 \\ 465 \\ \hline 4650 \end{array}$$

$$\frac{31}{20} = 1.55$$

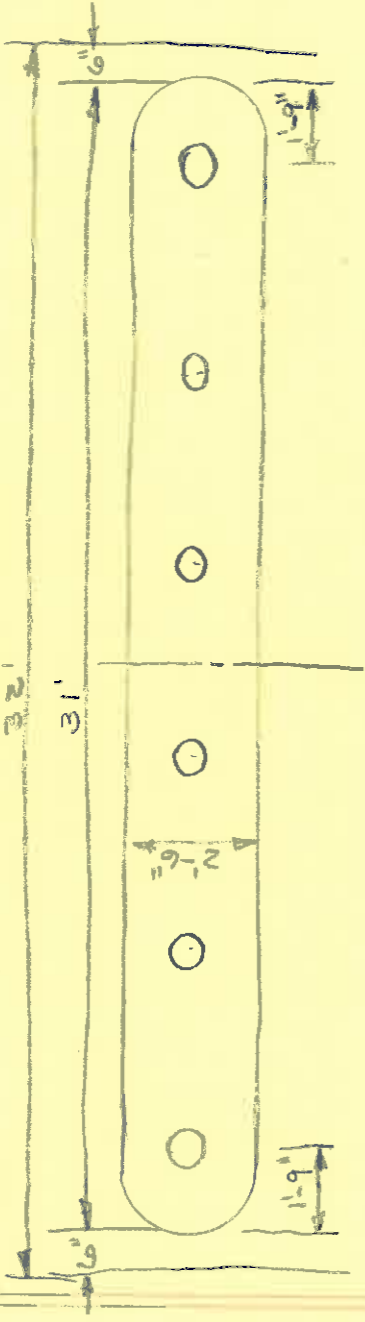
$$\frac{25.5}{27.5} = 0.927$$

$$\frac{24}{27.5} = 0.873$$

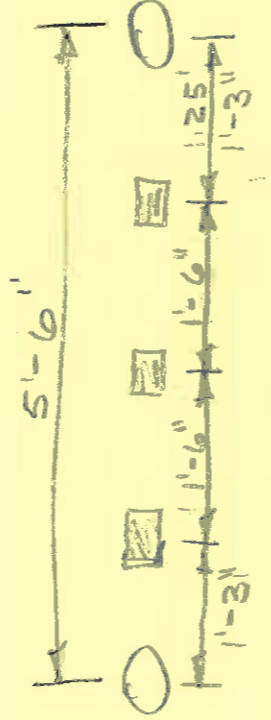
$$\frac{4.83}{29.15} = 0.166$$

$$5 \times 5'-10'' = 29'-2''$$

Piers 6 piles @ 5'-6" = 27.5'



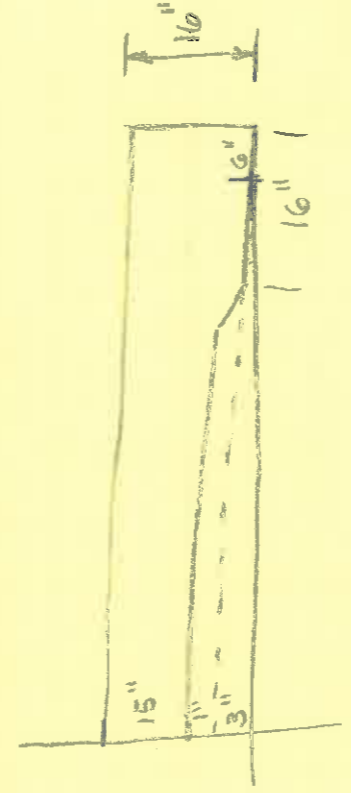
$$37'' \quad 3.08'$$



$$\begin{array}{l} 2.29' \\ 3.21' \\ 1.605' \times 1/2 \end{array}$$

$$\begin{array}{l} 2'' \\ + 1/2'' \\ + 1 1/8'' \end{array}$$

3 5/8" Top Slab to P1001



$$Q = 16'' + 1'-5'' = 1'-4'' + 1'-5'' = 2'-9''$$

$$\therefore Q = 2'-9''$$

P504

$$\text{Length} = 3'-9''$$

$$\left[ \begin{array}{l} 2'-9'' \\ 7 1/2'' \end{array} \right]$$

P503

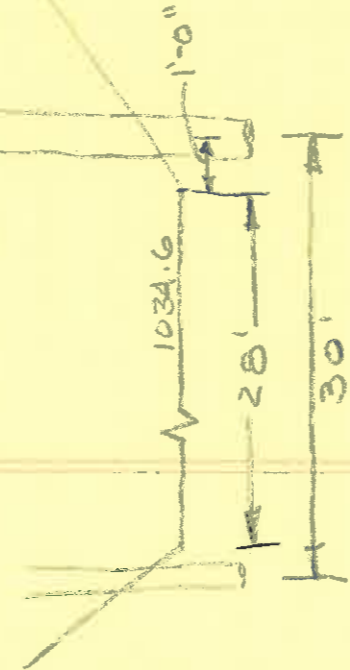
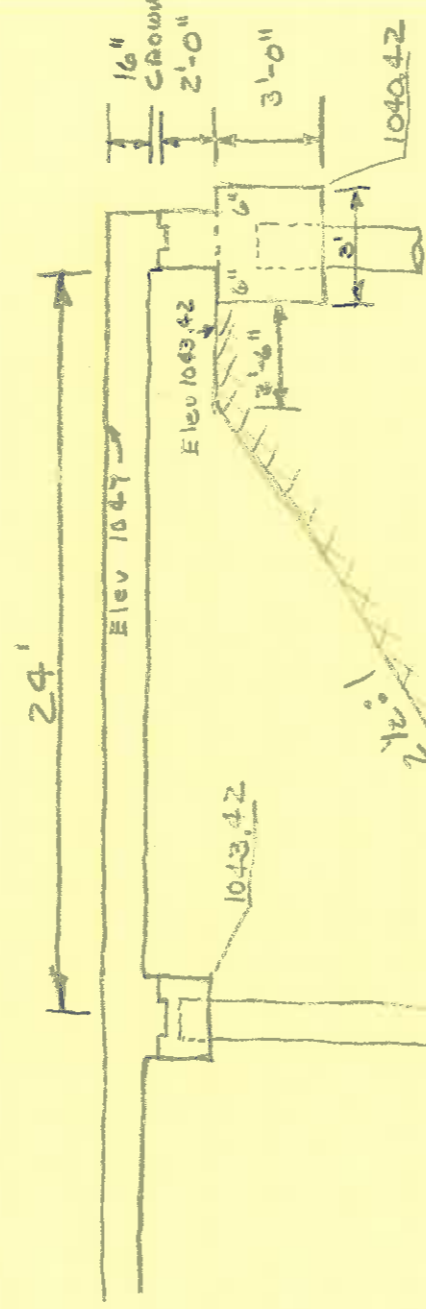
$$2Q + 3'-0'' = \text{Length} = 8'-6''$$

BR 39-4.98

3/14/78 RAB

Sta 176+76, 24-30-24 spans

Begin slab @ Abutment No 1	Sta	176+35
& Pier No 1	Sta	176+61
& Pier No 2	Sta	176+91
End of slab @ Abutment No 2	Sta	177+17



CROWN =  $\frac{2\frac{1}{2}''}{4} \times 16' = 3''$

8'-10"

Slab = 16"

CROWN = 3"

Abutment =  $\frac{24''}{4} = 6''$

43'' = 3.58'

(with 2:1 Bench could be from 5.4 to 7.4')

Bench Elev = 1047-3.58 = 1043.42

Waterway Area @ Bench

$A_w = 28(8.8) + 2(\frac{1}{2})(8.8)(22) = 440 \text{ R}'$

B.M.'s

#1 Top of Right-of-Way monument, Right Sta  
179 + 15.42,

Elev. 1045.22  
#2 Date Nail "28" in Telephone pole, 25 feet  
Right sta 174 + 77

Elev. 1047.23

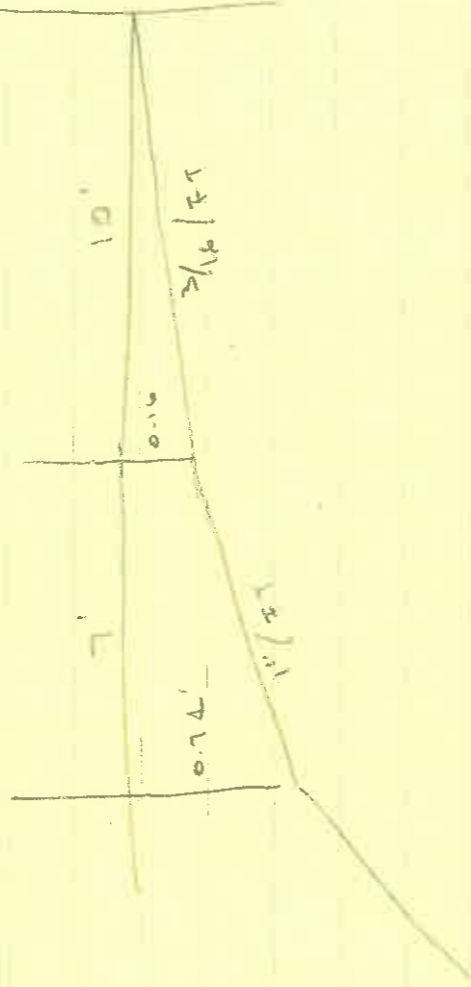
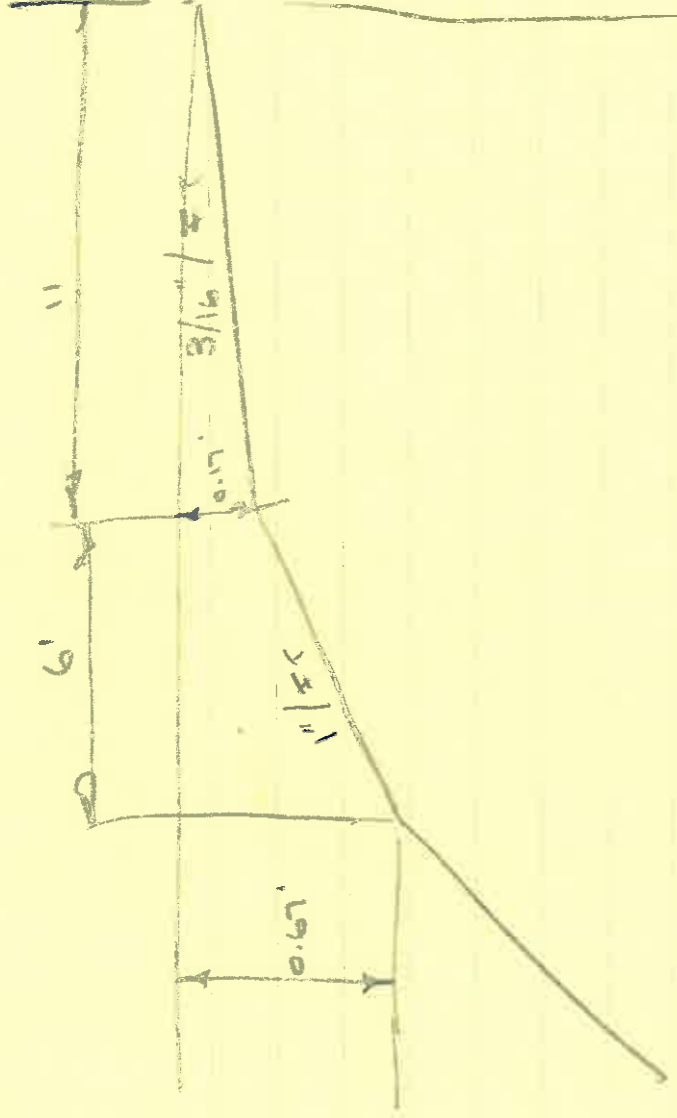
LOADS

Piers - 6 piles

36 Tons per pile  $\Rightarrow$  216 Tons Total Load

Abutments - 7 piles

22 Tons per pile  $\Rightarrow$  154 Tons Total Load



BR. 39 - 4.98

7/23/77  
D.L.D.

STATION	GRADE ELEV	V.C. OFFSET	ELEV.
+75	1050.92	0	1050.92
174+00	1049.94	1/2	1050.00
+25	1048.96	2/4	1049.21
+50	1047.98	3/4	1048.53
+75	1047.00	4/4 = 0.98	1047.98
175+00		0.55	1047.55
+25		0.25	1047.25
+50		0.06	1047.06
+75		0	1047.00
0			
0			
0			
178+50	1047.00	0	1047.00
+75	1047.00	1/2 = 0.04	1047.04
179+00	1047.00	2/4 = 0.17	1047.17
+25	1047.00	3/4 = 0.31	1047.31
+50	1047.51	0.17	1047.68
+75	1048.02	0.04	1048.06
180+00	1048.53	0	1048.53

% 2.2

+2.04%





# CURVE #2

$$E = T \tan \frac{A}{2}$$

$$5.5 = T \tan \frac{22^\circ 43'}{4}$$

$$T = 55.3$$

$$A = 22^\circ 43'$$

$$D = 10000$$

$$R = 572.96$$

$$T = 115.10$$

$$E = 11.45$$

$$L = 227.17$$

$$PI = 179 + 15.42$$

$$PC = 178 + 00.32$$

$$PT = 180 + \frac{27.17}{2}$$
  
 on Tangent

$$E = R \operatorname{exsec} \frac{A}{2}$$



$$\frac{1363}{227.17} = 3.00 / \text{FT}$$

$$\text{Curve Sta} = 180 + 27.49$$

STA	ARC DIST	CHORD DIST	0°00.0'/FT DEF'L	TOTAL DEF'L
178+00.32				
+25	24.68		1°14.0	1°14.0
+50			1°15.0	2°29.0
+75			3°44.0	3°44.0
179+00			4°59.0	4°59.0
+25			6°14.0	6°14.0
+50			7°29.0	7°29.0
+75			8°44.0	8°44.0
180+00			9°59.0	9°59.0
PT 180+27.49	27.49	27.49	1°22.5	11°21.5

$$\frac{A}{2} = 11^\circ 21.5'$$

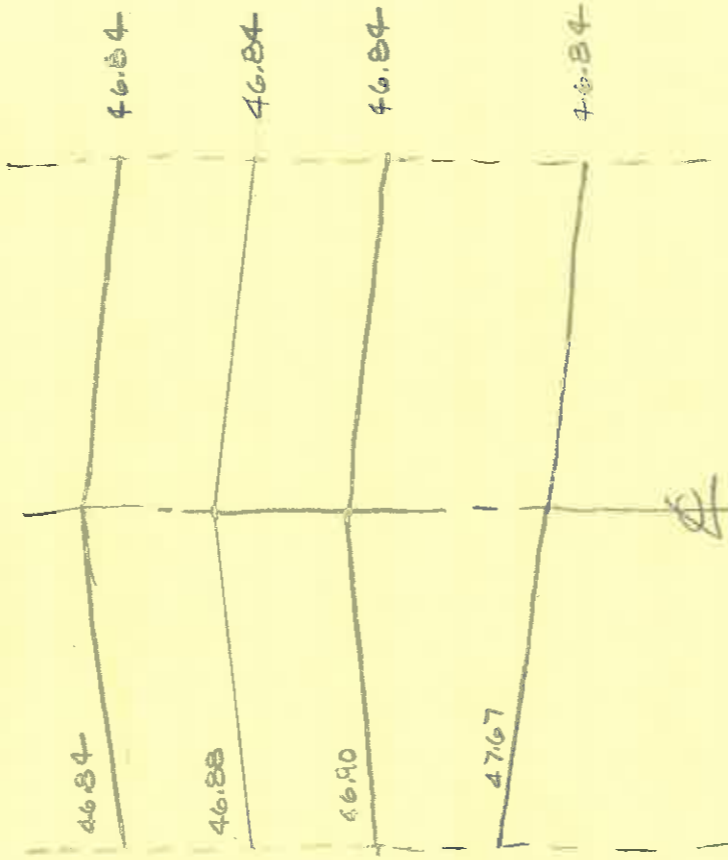


39-4.98

20' pavement width

Profile	Left edge 1046.84	$\frac{L}{2}$	Right edge 1046.84
177+0.32	1046.84	1047.00	1046.84
+25.32	1046.90	1047.00	1046.84
+50.32	1047.67		1046.84

End of Slab @ aboutment No. 2 = 177+17



End Br Slab

177+17

177+25.32

177+50.32

$$\frac{17}{25} = \frac{x}{106} \quad x = 0.04$$

46.84	0	$e = \left(\frac{2x}{X}\right)^2 \frac{E}{Z}$
47.05	+0.06	$e_{+25} = \left(\frac{2(25)}{100}\right)^2 \frac{1.67}{Z} = 0.21$
47.67	+1.03	$E -$
48.30	+1.61	$e_{+75} = 1.67 - \left(\frac{2(100-75)}{100}\right)^2 \frac{1.67}{Z}$
48.51	+1.67	$e_{+75} = 1.46$

2/28/78

Be. 39 - 4.98

STA	LEFT EDGE OF PAVEMENT	FINISHED GRADE ELEV	RIGHT EDGE OF PAVEMENT
177+00.32	1046.84	1047.00	1046.84
+ 17.32	1046.84	1046.84	1046.84
+ 25.32	1046.84	1047.00	1046.84
+ 50.32	47.37		
	1047.67		
+ 75.32	48.21		
	1048.15		
PC, 178+00.32	1048.51		
+ 25	1048.51		
+ 50	1048.51		
+ 75	1048.55		
179+00	1048.68		
+ 25	1048.90		
+ 50	1049.19		
+ 75	1049.57		
180+00	1050.04		
PT + 30.52	1050.60		
180+27.04			
55.52			
+ 52.44	1051.05		
80.52			
+ 77.27	1050.78		
05.52			
181+00	1050.52	1050.62	1050.46
+ 30.52	1050.97	1051.13	1050.97
+ 57.44			

83' Transition

100' transition

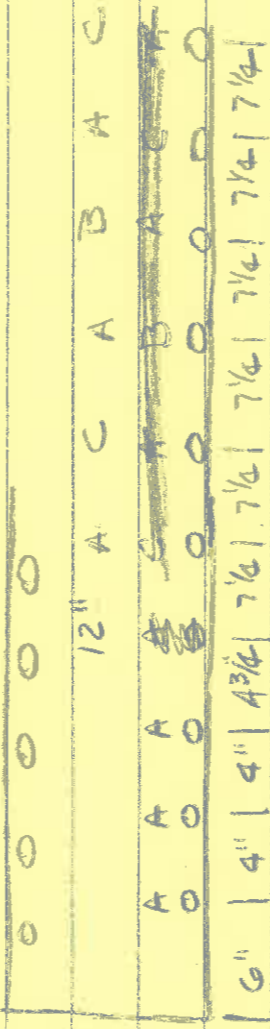
MAX. SLOPE = 1"/FT



Bar Spacing in Slab

Bottom	A924	14 1/2"	Total Slab Width = 33'-4"
Bottom	B924	29"	- 12"
Bottom	C924	29"	<u>32'-4"</u>
Bottom	D924	29"	- 1'-4"
Bottom	E924	29"	<u>31'-0"</u>

Top	F924	13"	
Top	G924	26"	16'-8"
Top	H924	26"	<u>1'-0 1/4"</u>
Top	J501	13"	15'-1 3/4"
Top	K501	13"	<u>1'-2"</u>
			<u>15'-6"</u>
			4 1/4"
			<u>15'-1 3/4"</u>



33'-4"	
- 7"	
<u>32'-9"</u>	
60	
61.5	

33'-0 1/2"
<u>32'-16"</u>
33'-4"
<u>32'-6"</u>
10"
5"