

SPECIAL PROVISIONS

WATERWAY PERMITS CONDITIONS

C-R-S: HAN-75-14.39

PID: 87005

Date: 08/14/2014

1. Waterway Permit Time Restrictions:

A Section 404 Individual Permit (404 IP) is authorized for HAN-75-14.39 (PID: 87005) by the U.S. Army Corps of Engineers (USACE). A copy of the authorization letter (LRH-2013-00042-MAU) shall be kept at the work site at all times and made available to all contractors and subcontractors. The permit is effective starting: **August 6, 2014**. The permit expires: **December 31, 2019**.

A Section 401 Water Quality Certification (401 WQC) is authorized for HAN-75-14.39 (PID: 87005) by the Ohio Environmental Protection Agency (OEPA). A copy of the authorization letter (ID No. 134309) shall be kept at the work site at all times and made available to all contractors and subcontractors. The permit is effective starting: **June 16, 2014**. The permit expires: **June 16, 2019**.

A Level 2 Isolated Wetland Permit (IWP) is authorized for HAN-75-14.39 (PID: 87005) by OEPA. A copy of the GIWP and OEPA authorization letter (ID No. 134308) shall be kept at the work site at all times and made available to all contractors and subcontractors. The permit is effective starting: **May 21, 2014**. The permit expires: **May 21, 2019**.

For permitted work in aquatic resources (including, but not limited to: streams, wetlands, jurisdictional ditches, captured streams, lakes, ponds), the Department will consider the Contractor's submission of a reauthorization to the waterway permit end date based on project constraints. In order to be considered, the Contractor must submit a justification to the Engineer at least 90 days prior to the waterway permit end date. The Engineer will submit the request for a time extension to ODOT-OES-WPU for consideration and coordination with the U.S. Army Corps of Engineers (USACE), Ohio Environmental Protection Agency (OEPA), U.S. Coast Guard (USCG), U.S. Fish and Wildlife Service (USFWS), and Ohio Department of Natural Resources (ODNR).

2. Deviations From Permitted Construction Activities

No deviation from the requirements for work in aquatic resources depicted in the plans, Special Provisions, and/or working drawings may be made unless a modification has been submitted to ODOT-OES-WPU and approved by the appropriate agencies (i.e., USACE, OEPA, USCG, ODNR, and USFWS).

NOTE: Plan sheets submitted with the Individual 404/401 Water Quality Certification application and Ohio EPA Isolated Wetland Permit Pre-activity Notification were approved by the USACE/OEPA and are attached for reference (see attached plan sheets 1-16).

For emergency situations resulting in unanticipated impacts to aquatic resources, provide notification (verbal or written) to the Engineer as soon as possible following discovery of the situation. Written notification to the Engineer and notification to the ODOT-OES-WPU (614-466-7100) must be made within 24 hours.

For non-emergency situations, notify the Engineer in writing for submission to the ODOT-OES-WPU (614-466-7100) for consideration and coordination with the appropriate agencies. Notification must be made at least 90 days prior to planned, non-permitted activities. Consideration of the requested deviation is at the discretion of the Director and must be coordinated with the appropriate regulatory agencies.

3. In-Stream Work Restrictions

Work in the following streams is further restricted as follows:

Stream Name /Description	Location	Work restriction dates (No in-stream work permitted)
Stream 1 (N.M. Adams Ditch)	STA 66+00 – 70+00, STA 09+93 (Service Rd)	None
Stream 2 (Blanchard River)	STA 896+50 – 899+50	April 15 - June 30
Stream 3 (Dalzell Ditch)	STA 911+50 – 917+00	None
Stream 5	STA 956+00 – 958+00	None
Stream 6 (Oil Ditch)	STA 865+50 – 866+00	None
Stream 7	STA 08+75 – 09+75 (Service Rd)	None

In-stream work has been defined as the placement and/or removal of fill materials (temporary or permanent) below ordinary high water of a stream. Examples of “fill” include, but are not limited to: bridge piers, abutments, culverts, rock channel protection, scour protection and temporary work pads**.

Fills placed within a stream identified in the above table (outside of the work restriction dates) can continue to be worked from during the work restriction dates, but cannot be expanded, removed, or otherwise modified (below ordinary high water) until once again outside of the work restriction dates.

The Engineer must submit a request for an “in-water work restriction waiver” to ODOT-OES-WPU (614-466-7100) for consideration and coordination with the USACE, OEPA, and ODNR if in-stream work needs to occur within restricted dates.

4. Materials:

Materials utilized in or adjacent to aquatic resources on this project for temporary or permanent fill or bank protection shall consist of suitable material free from toxic contaminants in other than trace quantities. Broken asphalt is specifically excluded. Chromated Copper Arsenate (CCA), creosote, and other pressure treated lumber shall not be used in structures that are placed in aquatic resources.

5. Cultural Resources

If archeological sites or human remains are discovered, cease all work in the immediate area and notify the Engineer who will immediately contact the ODOT-District Environmental Coordinator and ODOT-OES-Cultural Resource Section at 614-466-7100. In the event of human remains are identified by OES-Cultural Resources Section the Engineer shall also contact the Hancock County Sheriff’s Office at (419-424-7097).

6. Aquatic Resource Demarcation:

All aquatic resources indicated on the plans shall be demarcated in the field as per SS 832 prior to site disturbance. There are permitted impacts of 0.22 acres to Isolated Wetland (IW) C, 7.55 acres to IW I, and 0.1 acres to IW O; please see Table 1 and 2 for the permitted impacts to other aquatic resources within the project. The remaining portions of all the aquatic resources must be demarcated as to ensure avoidance. The fence shall remain in place and be maintained throughout the construction process. Following the completion of the project, the fence and posts shall be removed.

NOTE: Table 1 and 2 are attached and includes detailed amounts of impact/fill quantities that are permitted within the aquatic resources.

7. Spill containment:

Provide and Maintain an Oil Spill Kit with a minimum capacity of 65 gallons. The Spill Kit shall contain:

- 6 - 3 in. X 8 ft. Oil only socks
- 4 - 18 in. X18 in. Oil only pillows
- 2 - 5 in. X 10ft. Booms
- 50 - 16in. X 20 in. Oil only pads
- 10- Disposable Bags
- 1- 65 Gallon drum with lid
- 25 pounds of Granular Oil Absorbent

The Oil Spill Kit shall be located within 150 feet of any equipment working in a stream or wetland. The oil Spill Kit shall be maintained for the life of the contract. Any materials utilized during the project will be replaced within 48 hours. All costs associated with furnishing and maintaining the above referenced spill containment kit is incidental to work.

In the event of an inadvertent spill, contact ODOT-OES-WPU (614-466-7100) immediately. If contact with ODOT-OES-WPU cannot be made, immediately call the Ohio EPA Spill Hotline (1-800-282-9378), as well as the Ohio EPA Section 401/IWP Manager (614-644-2872).

8. Blasting:

State law requires notification to the Ohio Department of Natural Resources should blasting be required within or near stream channels (See ORC 1533.58 & CMS 107.09). Notify Engineer, in writing, for submission to ODOT-OES-WPU (614-466-7100) for coordination with ODNR.

9. Bridge Inspection:

Prior to the removal of bridge structures, the underside must be carefully examined for the presence of birds and bats. Should any birds or bats be found roosting on the underside of the bridge, the Contractor is required to notify the Engineer for coordination with ODOT-OES-WPU (614-466-7100).

10. Project Inspection:

Inspection of Work may include inspection by representatives of other government agencies or railroad corporations that pay a portion of the cost of the Work or regulate the Work through State and Federal law. Comments from the representatives of these agencies shall be directed to the Engineer. Please forward a copy to ODOT-OES-WPU (614-466-7100).

11. Temporary Access Fills (Stream and River Crossings and Fills)

Special Provisions Notes:

Definitions:

Hydraulic Opening

The cross sectional area allowing an unimpeded discharge equal to twice the highest monthly flow without producing a rise in the backwater above the Ordinary High Water Mark (OHWM)*.

Standard Temporary Discharge

The hydraulic opening providing a capacity for a discharge equal to twice the *highest monthly flow* without producing a rise in the backwater above the OHWM shall be known as the Standard Temporary Discharge. The U.S. Geologic Service publication "Techniques for estimating Selected Streamflow Characteristics of Rural Unregulated Streams in Ohio" provides equations that estimate monthly flow for Ohio Waterways. These flows are also available in a web application by USGS StreamStats, (<http://water.usgs.gov/osw/streamstat/ohi.html>).

Average Monthly Flow

The average monthly flow represents the estimated "normal" flow.

Temporary Access Fills (TAFs)

In Streams and Rivers may include, but are not limited to, causeways, cofferdams (as described by other items of work), access pads, temporary bridges, etc. The Contractor will make every attempt minimize disturbance to water bodies, stream banks, stream beds, and approach sections during the construction, maintenance, and removal of the TAFs. Fording of streams and rivers is prohibited.

Construct TAFs in such a manner that will maintain flows, minimize upstream flooding, and avoid overtopping the TAF on a regular basis. ***TAFs shall be designed and constructed so that the hydraulic opening provides capacity for a discharge equal to twice the highest monthly flow without producing a rise in the backwater above the Ordinary High Water Mark (OHWM)*.***

Requirements

21 calendar days prior to the initiation of any in-stream work, provide the Engineer with working drawings that include:

- Plan view drawing (200 scale or less) showing the location of all jurisdictional temporary fill proposed for use on the project
- Scaled Cross section and profile drawing showing the OHWM and the proposed compliant hydraulic opening.
- A description of the installation and staging of all temporary jurisdictional fill over the life of the contract.
- A description of the removal of all jurisdictional temporary fill and restoration of the channel and all areas impacted by the jurisdictional temporary fill.
- A schedule outlining the timing of the placement and removal of all TAF.
- Have an Ohio Registered Engineer prepare, sign, seal, and date the working drawings. Have a second Ohio Registered Engineer check, sign, and seal and date the working drawings. The preparer and checker are two different Engineers. Include the following statement on the working drawings:
"These working drawings were prepared in compliance with the terms of the Individual Permit and all contract documents."
- Include supporting hydraulic calculations developed by the engineer(s) who sealed the working drawings.
- Do not begin in-stream work until the Engineer has accepted the working drawings.

If the OHWM is not shown on the plans, the Department will establish the OHWM based on the definition of OHWM (as defined in SS 832) or the peak discharge from the 2 year event, using the method described in the most current version of the Department's Location and Design Manual Volume II.

If the Contractor proposes a TAF which does not provide for the Standard Temporary Discharge (discharge equal to twice the highest monthly flow without producing a rise in the backwater), the Contractor is required to coordinate the request for the contractor's proposed TAF with the Engineer and the ODOT Office of Environmental Services (OES). The Department makes no guarantee to grant the request. The contractor's proposed TAF request will be coordinated by OES with the USACE and the OEPA, as appropriate.

In addition to the requirements described in SS 832, supply the Engineer/OES with the following:

1. A plan and profile showing the temporary access fill(s) with the OHWM.
2. Cross section showing the hydraulic opening and the anticipated discharge flow.
3. A restoration plan for the area affected by the temporary access fill(s).
4. A schedule outlining the timing of the placement and removal of the temporary access fill(s)

The time frame allowed for the coordination of the contractor's proposed TAF will be a minimum of 60 days. Installation of any jurisdictional fill without a 404 Permit authorized by the USACE is strictly prohibited. All direct coordination with the USACE and/or OEPA will be performed through OES.

TAFs Construction and Payment

Begin planning and installing causeways and access fills as early in construction as possible to avoid conflicts with 404/401 permits or other environmental commitments that have been included in the construction plans.

TAFs in Streams and Rivers may include, but are not limited to, causeways, cofferdams, access pads, temporary bridges, etc. Make every attempt minimize disturbance to water bodies, stream banks, stream beds, and approach sections during the construction, maintenance, and removal of the TAFs. Make every attempt to minimize disturbance to water bodies during construction, maintenance, and removal of the causeway and access fills. Construct the causeway and access fills as narrow as practical. Install in-stream conduits parallel to the stream banks. Make the causeway and access fills in shallow areas rather than deep pools where possible. Minimize clearing, grubbing, and excavation of stream banks, bed, and approach sections. Construct the causeway and access fills as to not erode stream banks or allow sediment deposits in the channel.

Prior to the initiation of any in-stream work, establish a monument upstream of proposed temporary crossing or temporary construction access fill to visually monitor the water elevation in the waterway where the fill is permitted. Maintain the monument throughout the project. Provide a visual mark on the monument that identifies the elevation 1 foot above the OHWM. If the OHWM is not shown on the plans, the Department will establish the OHWM based on the definition of OHWM (SS 832.02) or the peak discharge from the 2 year event, using the method described in the most current version of the Department's Location and Design Manual Volume II. Ensure that the monument can be read from the bank of the waterway. Have this elevation set and certified by an Ohio Registered Surveyor. TAFs placed by the contractor above the OHWM are not subject to the 404/401 permit constraints. All costs associated with furnishing and maintaining the above referenced monument is incidental to the work. Should the water elevation of the waterway, exceed the elevation 1 foot above OHWM, the Department will compensate the Contractor for repair of any resulting damage to the permitted temporary access fill up to the elevation of 1 foot above the OHWM, except as noted. Follow the requirements in Item 502 for Structures for Maintaining Traffic and in Item 503 for Cofferdams and any modifications to these items as shown in the plans. The Department will not pay for repair and maintenance of temporary access structures that are related to the construction access fill.

Should the water elevation of the waterway exceed the elevation shown on the monument, the Department will recognize this event as an excusable, non-compensable delay in accordance with Section 108.06 of the Construction & Materials Specifications.

Construct the causeway and fills, not including cofferdams and temporary bridges, to a water elevation at least 1 foot (0.3 m) above the OHWM. If more than one-third the width of the stream is filled, then use culvert pipes to allow the movement of aquatic life. Ensure that any ponding of water behind the causeway and access fills will not damage property or threaten human health and safety.

The following minimum requirements apply to TAFs where culverts are used.

- A. Furnish culverts on the existing stream bottom.
- B. Avoid a drop in water elevation at the downstream end of the culvert.
- C. Furnish a sufficient number of culverts in addition to stream openings to providing a discharge equal to twice the highest monthly flow without producing a rise in the backwater above the OHWM.
- D. Furnish culverts with a minimum diameter of 18 inches (0.5 m).

For all fill and surface material placed in the channel, around the culverts, or on the surface of the causeway and access fills furnish clean, non-erodible, nontoxic dumped rock fill, Type B, C, or D, as specified in C&MS 703.19.B. Extend rock fill up the slope from original stream bank for 50 feet (10 m) to catch and remove erodible material from equipment.

When the work requiring the TAFs is complete all portions of the TAF (including all rock and culverts) will be removed in its entirety. The material will not be disposed in other waters of the US or isolated wetland. The stream bottom affected by the causeway and access fills will be restored to its pre-construction elevations. The TAF will not be paid as a separate item but will be included by the Contractor as part of the total project cost.

Unless specific TAFs compensation is included in the plans, all environmental protection and control associated with the 404/401 permit activities, including but not limited to TAFs, are incidental to the work within the boundaries of the 404/401 permit or as otherwise identified in the 404/401 permit application.

12. Excavation Activities:

Excavated material will be placed at the upland site and disposed of in such a manner that sediment and runoff to streams and other waters is controlled and minimized. If any changes to the proposed work are deemed necessary, you must notify and coordinate with the ODOT-OES-WPU (614-466-7100).

13. Start of Construction Notification to USACE:

No less than least three (3) weeks in advance, notify the Engineer of when construction will commence. At least two weeks prior, the Engineer is required to contact Peter Clingan of USACE-Ohio Regulatory Transportation Office (at 614-692-4659) and notify him of the start date of construction. If contact cannot be made with the USACE, contact ODOT-OES-WPU (614-466-7100) for assistance.

14. USACE Construction Completion Certification:

Upon completion of the work, notify the Engineer. The USACE Construction Completion Certification must be completed and signed by the Engineer then forwarded to the:

U.S. Corps of Engineers
DSCC
Building 10, Section 10
3990 East Broad Street
Columbus, Ohio 43218

Forward a copy of the certification to ODOT-OES-WPU (614-466-7100). A copy of the form has been attached to these Special Provisions.

15. Bridge Demolition Debris:

Demolition debris from bridge removal activities is considered a fill activity by the USACE and Ohio EPA and placement must not exceed 72 hours within waters of the US. If removal of debris material cannot be achieved within 72 hours, please contact ODOT-OES-WPU (614-466-7100). Bridge demolition debris must be disposed of in an upland location and not placed in a water of the U.S. or isolated wetland.

Table 1 - Discharges of Fill Material into Streams and Ditches

Resource ID / Sheet # of Attachment	Flow	Description of Fill / Activities below OHWVI	Permanent Fill Below OHWVI												Total Fill								
			Proposed Concrete (Includes Culvert, Piers, Walls, Abutments, etc.)			Proposed RCP			Proposed Earthfill or Embankment Fill			Proposed Granular Fill			Proposed Other Fill (Steel, Aluminum, Plastic)			Area (AC)	Volume (CY)				
Total Length (Streams) / Area (Ditches) Within Project Area (LF / AC)			Length (LF)	Area (AC)	Volume (CY)	Length (LF)	Area (AC)	Volume (CY)	Length (LF)	Area (AC)	Volume (CY)	Length (LF)	Area (AC)	Volume (CY)	Length (LF)	Area (AC)	Volume (CY)	Area (AC)	Volume (CY)				
Stream 1 - Location 1a - Sheet 1 and 2	Intermittent	Concrete Earthen Fill / Granular Fill / Plastic Pipe / Temporary Access	32	0.004	21	0	0	0	614	8.773	536	32	0.004	31	14	0.001	1	75	0.027	95	531	0.136	654
Stream 1 - Location 1b - Sheet 3	Intermittent	Concrete / Rock Channel Protection / Earthen Fill / Granular Fill / Temporary Access	87	0.017	82	45	0.011	32.5	105	0.014	50	37	0.017	140	0	0	0	50	0.014	15	176	0.348	317
Stream 1 Totals:			119	0.021	103	45	0.011	32	609	0.189	586	119	0.021	171	14	0.001	1	125	0.041	78	707	0.234	971
Blanchard River - Sheets 4 and 5	Perennial	Concrete / Granular Fill / Steel Encasements / Steel Wasteline Pipe / Temporary Access	57	0.006	186	0	0	0	0	0	0	734	0.014	202	135	0.005	7	337	0.895	8,329	337	0.895	8,724
Stream 3a - Sheet 3	Perennial	Concrete / Earthen Fill / Plastic Temporary Access	7	0.001	1	0	0	0	135	0.043	140	0	0	0	0	0.001	0	110	0.035	17	245	0.078	159
Stream 5 - Sheet 7	Intermittent	Concrete / Earthen Fill / Plastic Temporary Access	61	0.065	4	0	0	0	275	0.032	42	0	0	0	0	0.001	1	52	0.006	8	287	0.037	57
Stream 6 - Sheet 5	Perennial	Concrete / Rock Channel Protection / Earthen Fill / Steel Temporary Access	5	0.001	2	16	0.008	27	11	0.009	1	0	0	0	11	0.001	1	462	0.015	18	478	0.025	47
Stream 7 - Sheet 9	Intermittent	Rock Channel Protection / Temporary Access	0	0	0	14	0.002	4	0	0	0	0	0	0	0	0	0	39	0.006	4	44	0.008	3
Stream 7 Totals:			265	0.034	208	75	0.021	63	1,030	0.265	769	253	0.035	373	162	0.009	11	1,116	0.998	8,452	2,098	1,277	9,966
Ditch 1 - Sheets 10 and 11	Intermittent	Concrete / Rock Channel Protection / Earthen Fill / Granular Fill / Steel Temporary Access	NA	0.009	51	NA	0.027	87	NA	0.3270	0.049	NA	0.405	42	NA	0.001	4	NA	0.002	177	NA	0.422	1410
Ditch 2 - Sheet 12	Intermittent	Concrete / Rock Channel Protection / Earthen Fill / Temporary Access	NA	0.001	2	NA	0.003	6	NA	0.1189	114	NA	0	0	NA	0	0	NA	0.006	11	NA	0.122	133
Ditch Totals:			NA	0.010	53	NA	0.030	93	NA	0.445	1,163	NA	0.005	42	NA	0.001	4	NA	0.008	188	NA	0.544	1,543

*Length and Area of Discharges overlap and double the type Totals will not add up to the Total Fill Column.

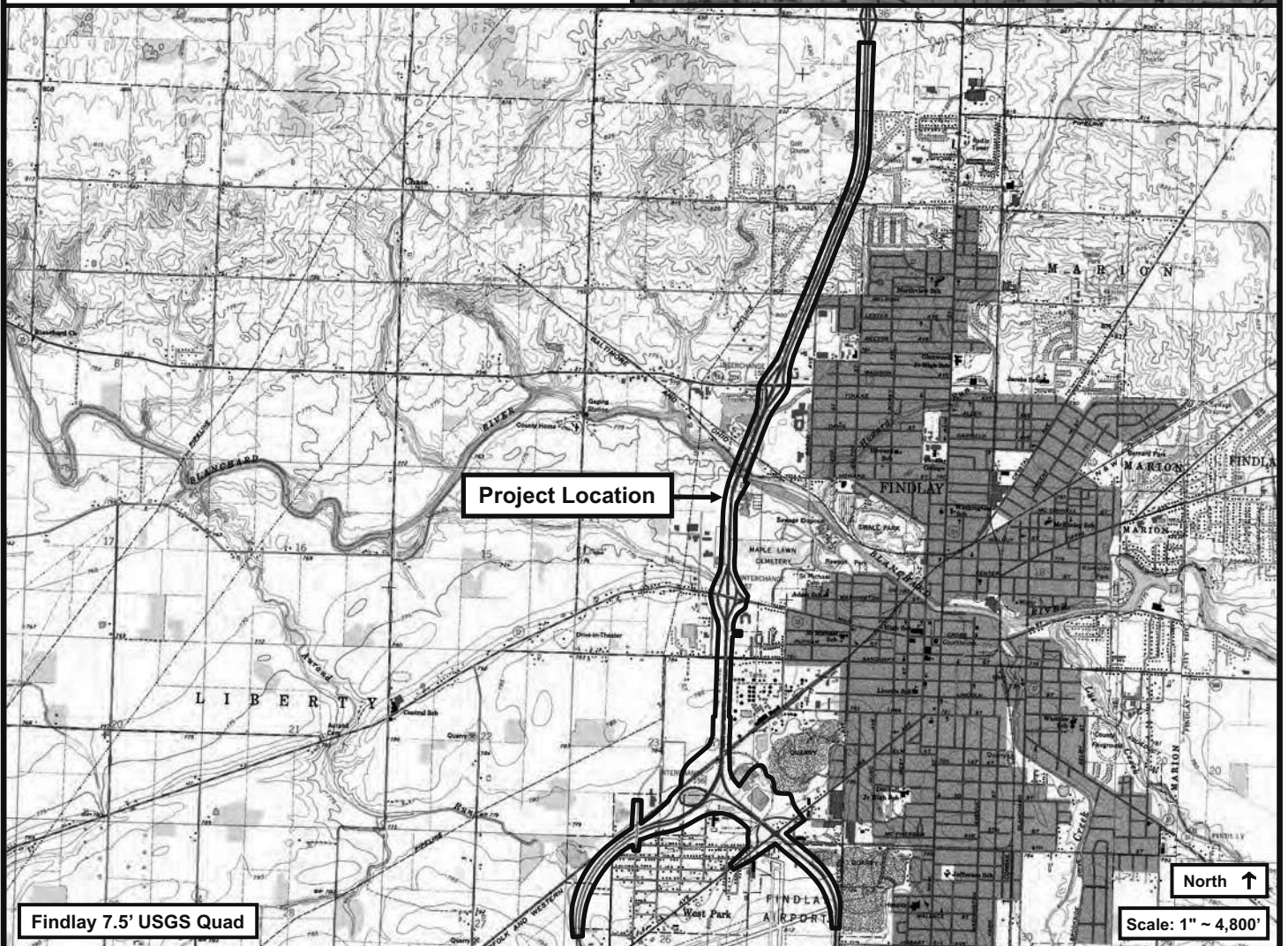
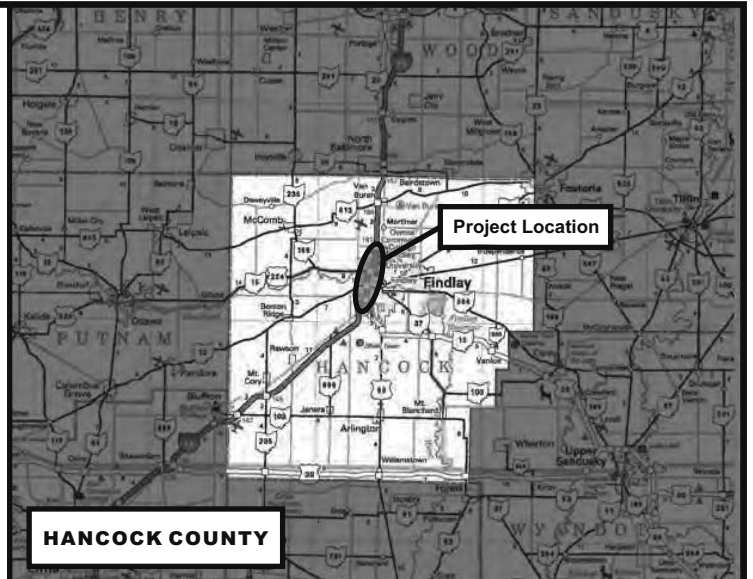
Table 2 - Discharges of Fill Material into Wetlands

Resource ID	Description of Filling Activity	Proposed Concrete (Includes Culvert, Piers, Walls, Abutments, etc.)			Proposed RCP			Proposed Earthfill or Embankment Fill			Proposed Other Fill (Steel, Aluminum, Plastic)			Total Fill	
		Area (AC)	Volume (CY)	Length (LF)	Area (AC)	Volume (CY)	Length (LF)	Area (AC)	Volume (CY)	Length (LF)	Area (AC)	Volume (CY)	Area (AC)	Volume (CY)	
Wetland E - Sheets 13 and 14	Concrete / Rock Channel Protection / Earthen Fill / Plastic	3.701	1	1	0.001	1	2,895	4671	0.003	5	0.003	2.90	4678		
Wetland F - Sheet 15	Grading / (Earthen Fill) / Concrete Pipe	0.015	24	24	0.001	2	1,954	2507	0	0	0	1.57	2533		
Wetland Totals:		0.02	25	25	0.002	3	4,849	7,178	0.003	5	0.003	4.47	7,211		

*Length and Area of Discharges overlap and double the type Totals will not add up to the Total Fill Column.

Isolated Wetland Impacts Table

Wetland ID	Isolated or Non-isolated	Forested or Non-forested	Category	Total Acreage on Site	Total Acreage Impacted	Percent Avoided
C	Isolated	Non-forested	1	0.22	0.22	0.0%
I	Isolated	Non-forested	1	19.97	7.55	62.2%
O	Isolated	Non-forested	1	0.29	0.1	65.5%
Q	Isolated	Non-forested	1	0.03	0	100.0%
Totals				20.51	7.87	61.6%



PROJECT LOCATION MAP

ODOT - HAN-75-14.39, PID: 87005, LRH-2013-00042-MAU - Blanchard River
Hancock County, Ohio

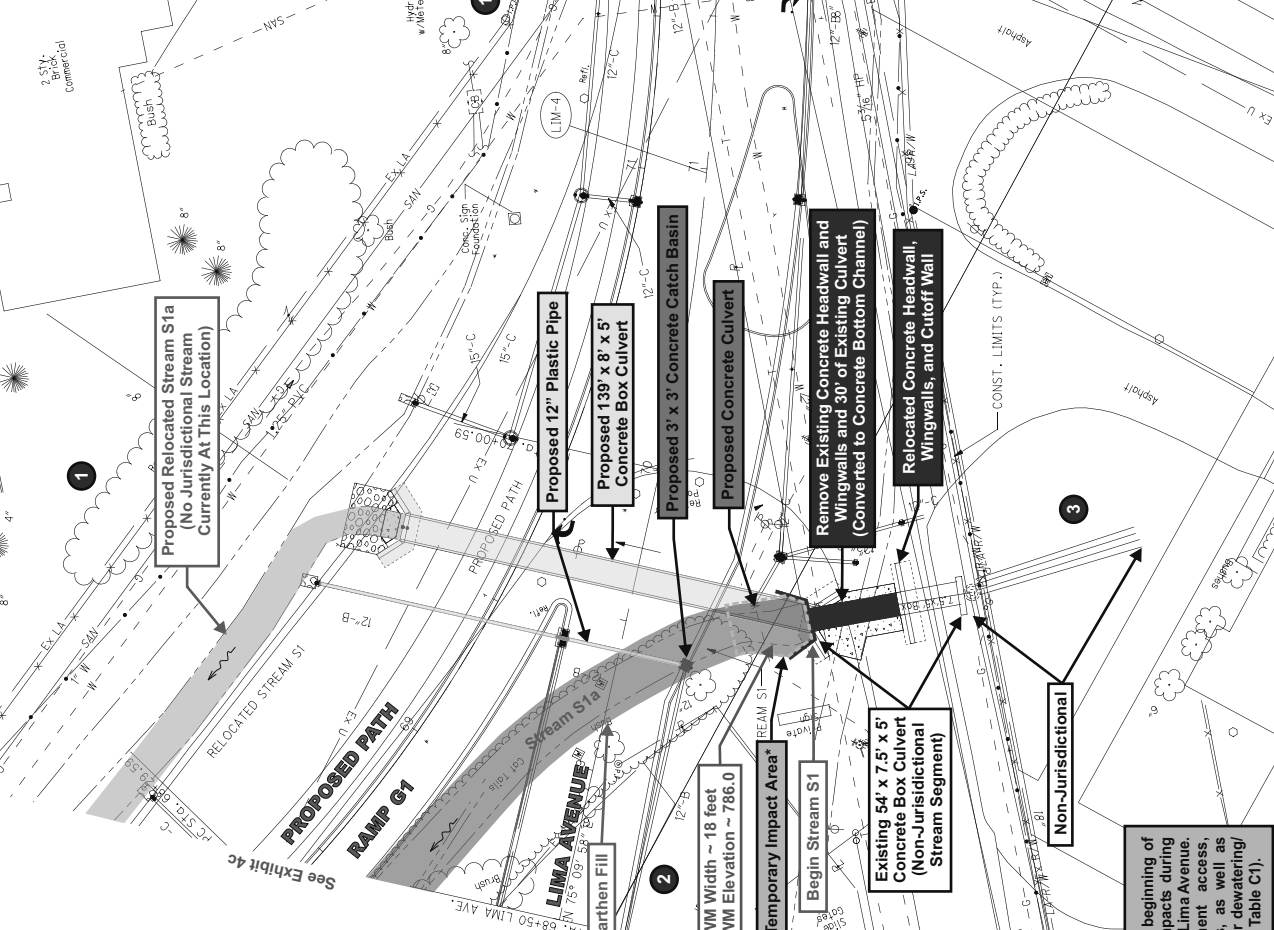
Sheet 1 of 16

Proposed Activity - Stream S1a

Proposed construction activities in the Stream S1a OHWM channel include the placement of earthen fill and relocation of the S1a channel for the reconfiguration of the Lima Avenue interchange. Proposed activities also include placement of a portion of a new 139' x 8' x 5' concrete box culvert within the Stream S1a OHWM channel (culvert to be constructed on a new skewed alignment). Granular material will be placed under the culvert. A 30' section of the existing concrete box culvert will be removed and converted back to open (concrete bottom) channel. At the downstream end of the impact area, twin 36" concrete pipes will be removed and filled, and relocated Stream S1a will be connected to existing Stream S1a (see Exhibit 4d). Temporary impacts are also expected in Stream S1a and are discussed in the Temporary Impact Area text box on this exhibit and on Exhibit 4d.

Impact Summary
 (see Table C1 for details about Total Impacts)

Total Impact Length:	531 feet
Total New Impact Length:	531 feet
Total Impact Area:	0.186 acre
Total Fill Volume:	654 cubic yards
Permanent Concrete Fill:	32 ft / 0.004 ac / 21 cy
Permanent Earthen Fill:	504 ft / 0.175 ac / 536 cy
Permanent Granular Fill:	32 ft / 0.004 ac / 31 cy
Permanent Other (Plastic) Fill:	14 ft / 0.001 ac / 1 cy
Temporary Disturbance:	75 ft / 0.027 ac / 65 cy



- Adjacent Property Owners**
- 1 State of Ohio (ODNR)
 - 2 McClellan Family Investments, LLC.
 - 3 Ohio Logistics, LTD.

* A 25' Temporary Impact Area is included at the beginning of Stream S1a due to the potential for temporary impacts during removal of the existing concrete box culvert under Lima Avenue. Potential temporary activities include equipment access, grading, and other minor "non-fill" disturbances, as well as potential temporary fills that may be necessary for dewatering/flow diversions (determined by the contractor) (see Table C1).

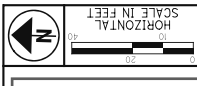
Proposed Activity - Stream S1a (N.M. Adams Ditch)

ODOT - HAN-75-14.39, PID: 87005, LRH-2013-00042-MAU - Blanchard River

Hancock County, Ohio

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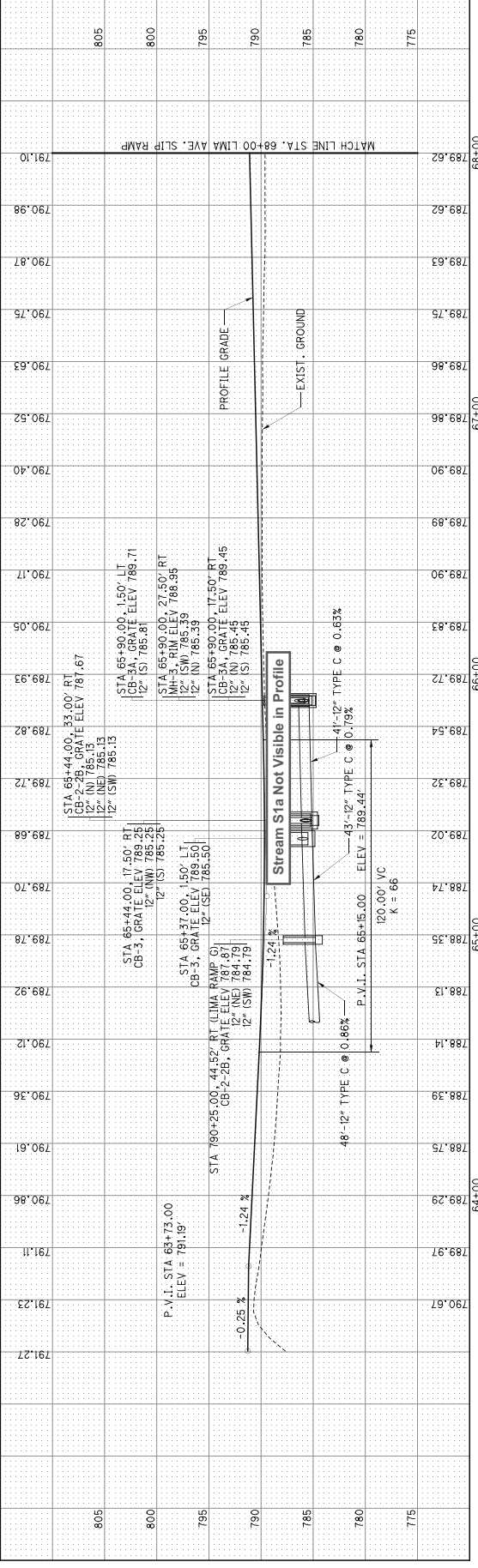
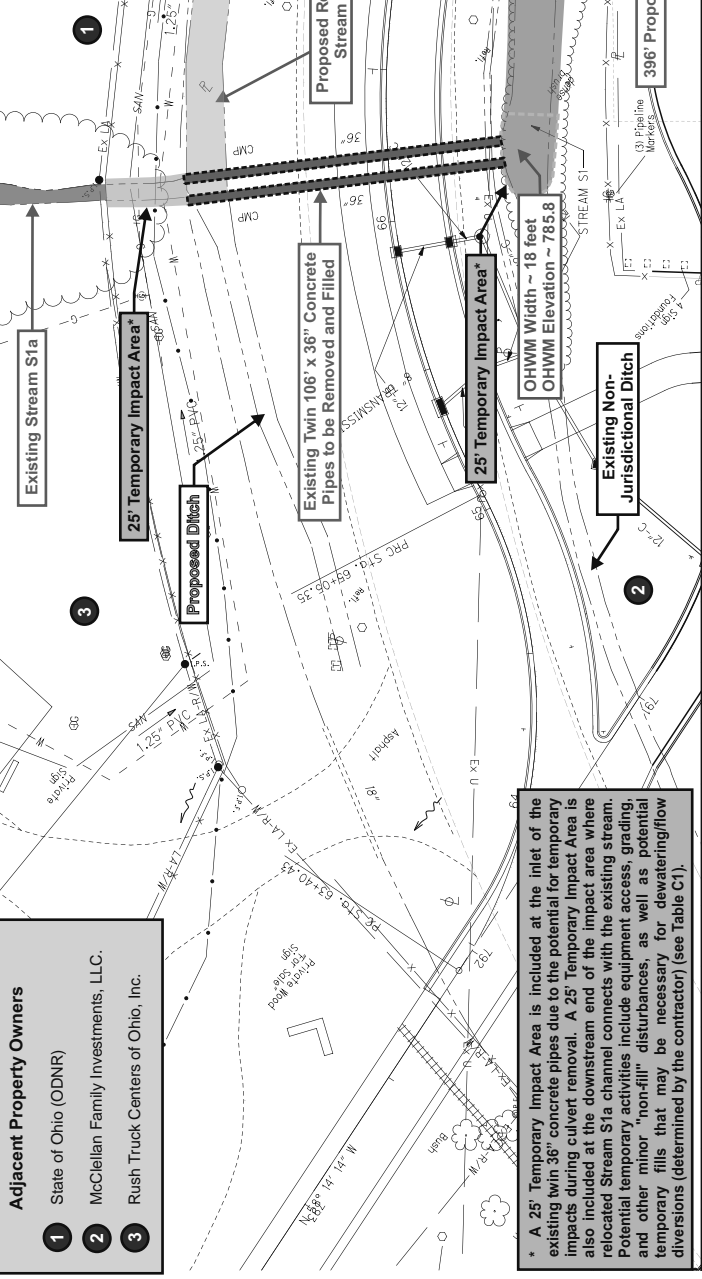




PLAN AND PROFILE - LIMA AVE. RAMP 'G1'
 STA. 63+40.43 TO STA. 68+00

HAN-75-14.39
 449
 842

Proposed Activity - Stream S1a
 Proposed construction activities in the Stream S1a OHWM channel include the placement of earthen fill and relocation of the S1a channel for the reconfiguration of the Lima Avenue interchange. Proposed activities also include placement of a new 139' x 8' x 5' concrete box culvert within the Stream S1a OHWM channel (culvert to be constructed on a new skewed alignment). Granular material will be placed under the culvert. A 30' section of the existing concrete box culvert will be removed and converted back to open (concrete bottom) channel. At the downstream end of the impact area, twin 36" concrete pipes will be removed and filled, and relocated Stream S1a will be connected to existing Stream S1a (see Exhibit 4d). Temporary impacts are also expected in Stream S1a and are discussed in the Temporary Impact Area text box on this exhibit and on Exhibit 4d.



- Adjacent Property Owners**
- State of Ohio (ODNR)
 - McClellan Family Investments, LLC.
 - Rush Truck Centers of Ohio, Inc.

* A 25' Temporary Impact Area is included at the inlet of the existing twin 36" concrete pipes due to the potential for temporary impacts during culvert removal. A 25' Temporary Impact Area is also included at the downstream end of the impact area where relocated Stream S1a channel connects with the existing stream. Potential temporary activities include equipment access, grading, and other minor "non-fill" disturbances, as well as potential temporary fills that may be necessary for dewatering/flow diversions (determined by the contractor) (see Table C1).



Proposed Activity - Stream S1a (N.M. Adams Ditch)
ODOT - HAN-75-14.39, PID: 87005, LRH-2013-00042-MAU - Blanchard River
Hancock County, Ohio
Sheet 3 of 16



CAB
ZLS
SCALE IN FEET

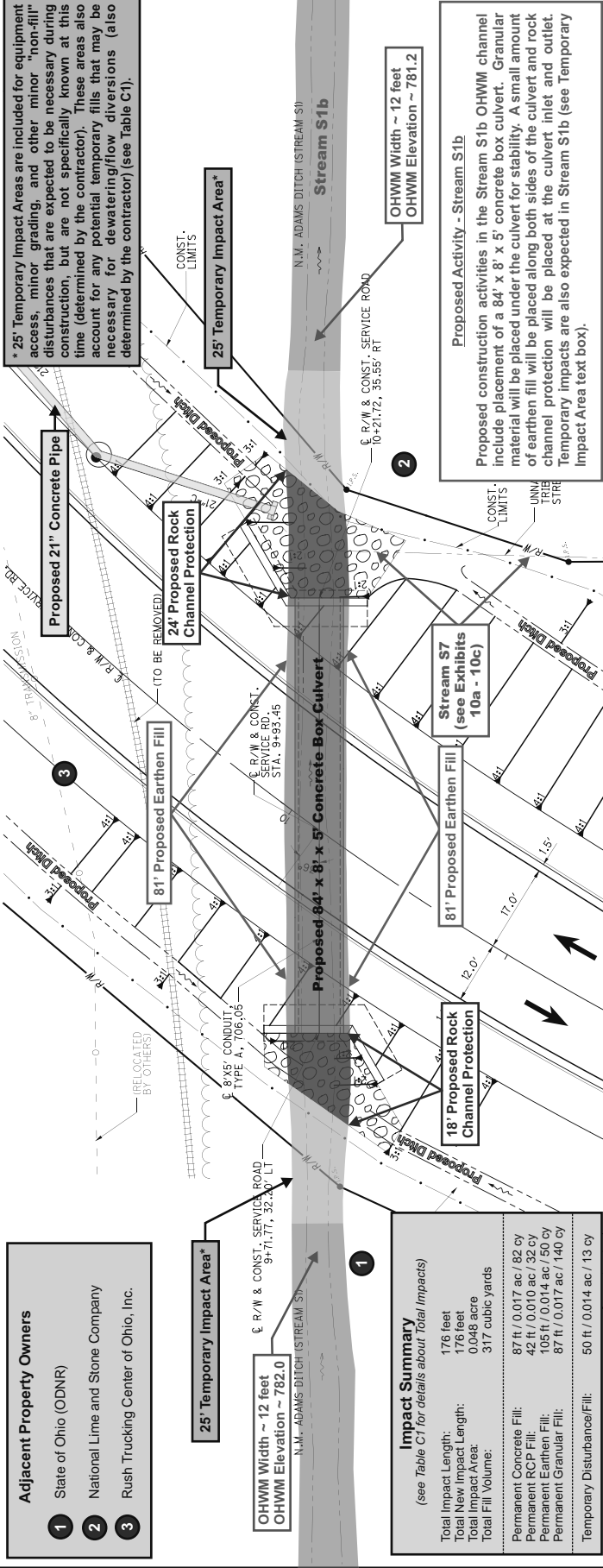
C36 CULVERT DETAIL
SERVICE ROAD AT STA. 9+34.35

HAN-75-14.39

1/7
786
842

* 25' Temporary Impact Areas are included for equipment access, minor grading, and other minor "non-fill" disturbances that are expected to be necessary during construction, but are not specifically known at this time (determined by the contractor). These areas also account for any potential temporary fills that may be necessary for dewatering/flow diversions (also determined by the contractor) (see Table C1).

Proposed construction activities in the Stream S1b channel include placement of a 84' x 8' x 5' concrete box culvert. Granular material will be placed under the culvert for stability. A small amount of earthen fill will be placed along both sides of the culvert and rock channel protection will be placed at the culvert inlet and outlet. Temporary impacts are also expected in Stream S1b (see Temporary Impact Area text box).

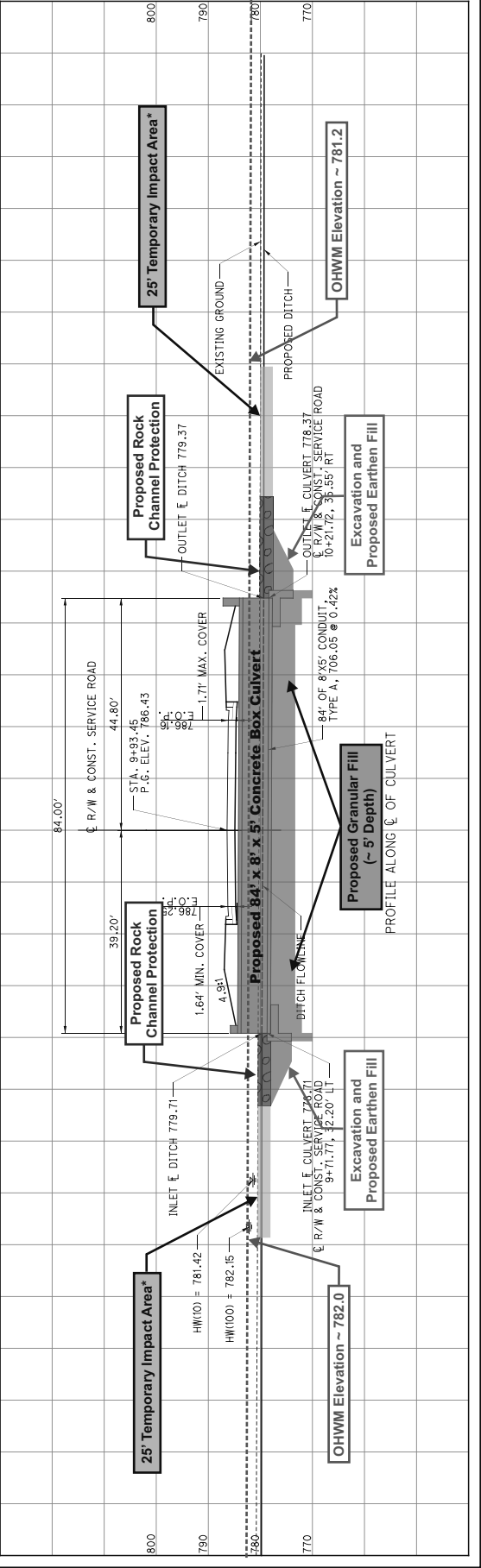


Adjacent Property Owners

- State of Ohio (ODNR)
- National Lime and Stone Company
- Rush Trucking Center of Ohio, Inc.

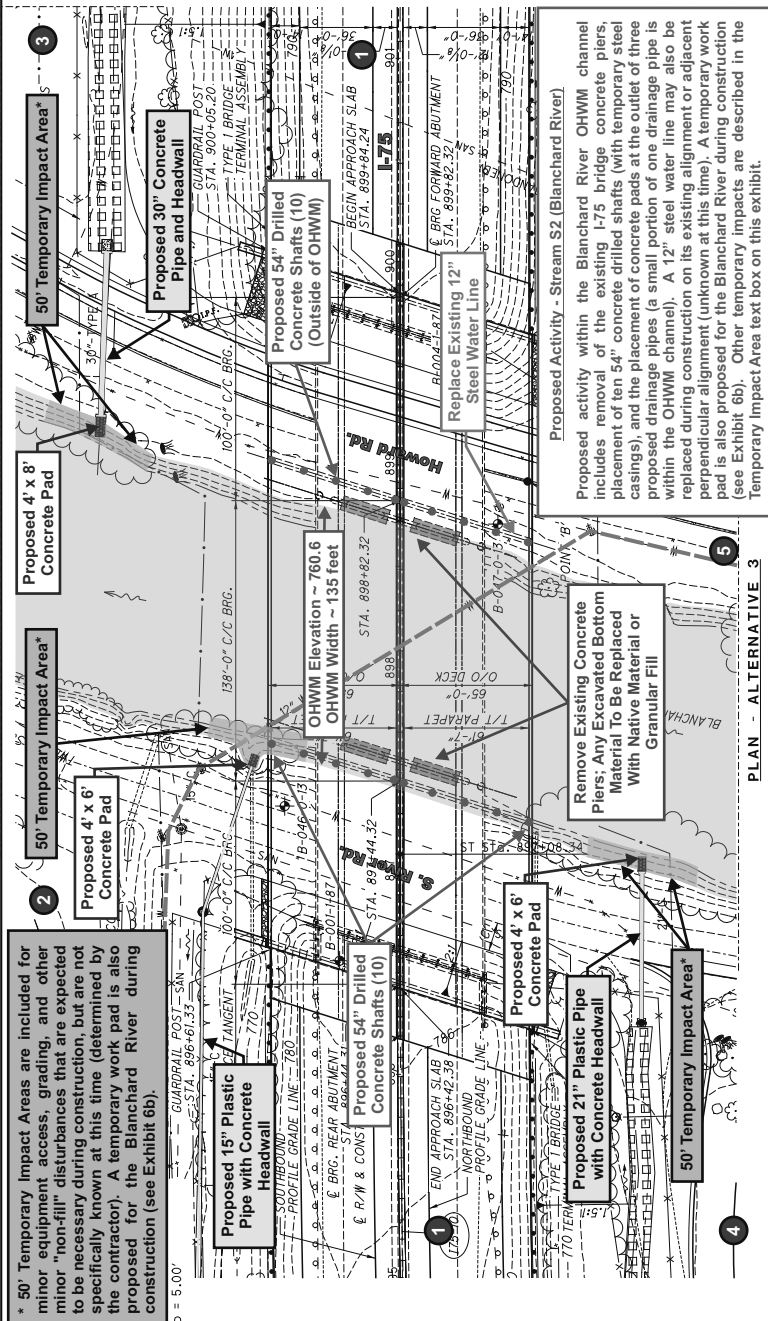
Impact Summary
(see Table C1 for details about Total Impacts)

Total Impact Length:	176 feet
Total New Impact Length:	176 feet
Total Impact Area:	0.048 acre
Total Fill Volume:	317 cubic yards
Permanent Concrete Fill:	87 ft ³ / 0.017 ac / 82 cy
Permanent RCP Fill:	42 ft ³ / 0.010 ac / 32 cy
Permanent Earthen Fill:	105 ft ³ / 0.014 ac / 50 cy
Permanent Granular Fill:	87 ft ³ / 0.017 ac / 140 cy
Temporary Disturbance/Fill:	50 ft ³ / 0.014 ac / 13 cy



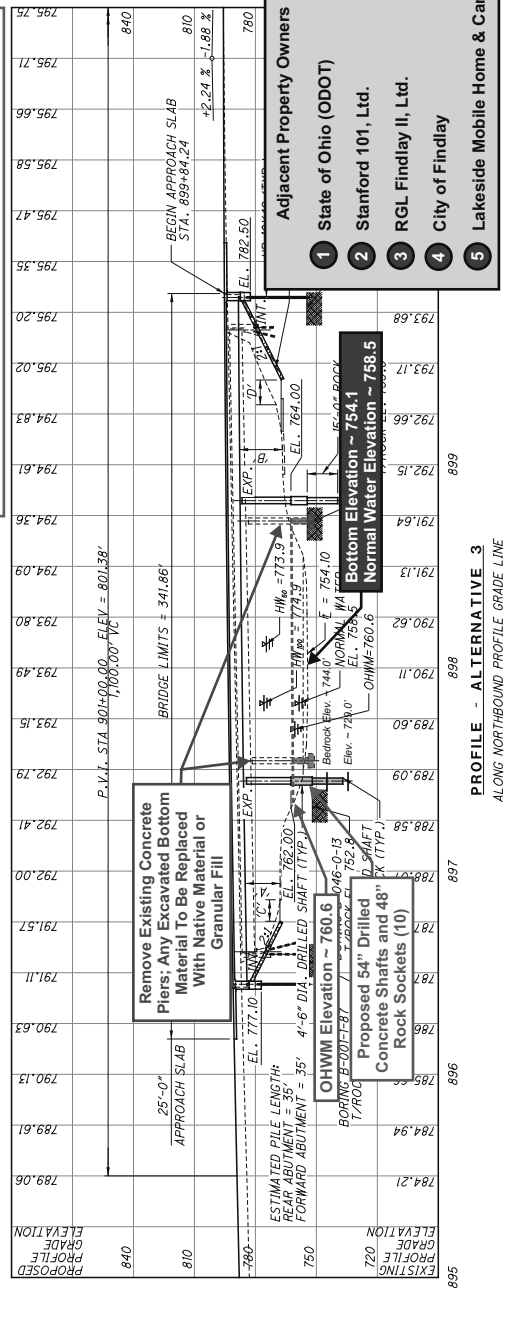
Proposed Activity - Stream S1b (N.M. Adams Ditch)
 ODOT - HAN-75-14.39, PID: 87005, LRH-2013-00042-MAU - Blanchard River
 Hancock County, Ohio
 Sheet 4 of 16

* 50' Temporary Impact Areas are included for minor equipment access, grading, and other minor "non-fill" disturbances that are expected to be necessary during construction, but are not specifically known at this time (determined by the contractor). A temporary work pad is also proposed for the Blanchard River during construction (see Exhibit 6b).



Proposed activity within the Blanchard River OHWM channel includes removal of the existing 175' bridge concrete piers, placement of ten 54" concrete drilled shafts (with temporary steel casings), and the placement of concrete pads at the outlet of three proposed drainage pipes (a small portion of one drainage pipe is within the OHWM channel). A 12" steel water line may also be replaced during construction on its existing alignment or adjacent perpendicular alignment (unknown at this time). A temporary work pad is also proposed for the Blanchard River during construction (see Exhibit 6b). Other temporary impacts are described in the Temporary Impact Area text box on this exhibit.

PLAN - ALTERNATIVE 3



PROPOSED PROFILE - ALTERNATIVE 3
ALONG NORTHBOUND PROFILE GRADE LINE

- Adjacent Property Owners
- 1 State of Ohio (ODOT)
 - 2 Stanford 101, Ltd.
 - 3 RGL Findlay II, Ltd.
 - 4 City of Findlay
 - 5 Lakeside Mobile Home & Camping

Impact Summary
(see Table C1 for details about Total Impacts)

BORING	337 feet
B-001-I-3	337 feet
B-004-I-3	0.885 acre
B-046-O	8.724 cubic yards
B-047-O	
Permanent Concrete Fill:	57 ft / 0.006 ac / 188 cy
Permanent Granular Fill:	134 ft / 0.014 ac / 202 cy
Permanent Other (Steel) Fill:	134 ft / 0.004 ac / 16 cy
Temporary Disturbance:	150 ft / 0.034 ac / 0 cy
Temporary Steel Fill (Casings):	451 ft / 0.004 ac / 13 cy
Temporary Work Pad (RCP Fill):	285 ft / 0.883 ac / 8,316 cy
2036 ADT	2036 ADT
2036 ADT	2036 ADT
DIRECTIONAL DISTRIBUTION = 0.50	

LEGEND

- BORING LOCATION
- 15.00' REQUIRED MINIMUM VERTICAL CLEARANCE
- POINT A' - 16.25' ACTUAL MINIMUM VERTICAL CLEARANCE
- POINT B' - 20.23' ACTUAL MINIMUM VERTICAL CLEARANCE
- 13.00' REQUIRED MINIMUM HORIZONTAL CLEARANCE
- POINT C' - 14.12' ACTUAL MINIMUM HORIZONTAL CLEARANCE
- POINT D' - 13.67' ACTUAL MINIMUM HORIZONTAL CLEARANCE
- * MEASURED FROM REFERENCE TANGENT

HYDRAULIC DATA

DRAINAGE AREA = 345 SQ. MILES
 V (50') = 10,700 CFS V (100') = 3.6 FT/S
 V (100') = 11,700 CFS V (1000') = 3.6 FT/S
 STRUCTURE CLEARS THE 100 YEAR
 DESIGN HW BY 5.8 FEET.

EXISTING STRUCTURE

TYPE: CONTINUOUS STEEL GIRDER BRIDGE ON REINFORCED CONCRETE DECK AND SUBSTRUCTURE
 SPANS: 94'-0", 118'-0", 94'-0" C/C BEARINGS
 ROADWAY: 80'-0" TOE/TOE PARAPETS INCLUDES 2'-0" DEFLECTOR MEDIAN
 LOADINGS: HS20-44 AND THE ALT. MILITARY LOADING (CASE D)
 WEARING SURFACE: 1" MONOLITHIC CONCRETE
 SKEW: 17° 30' L.F.
 APPROACH SLABS: 45'-181' (25' LONG)
 ALIGNMENT: TANGENT
 SUPERELEVATION: NONE
 STRUCTURAL FILE NUMBER: 3203034
 DATE BUILT: 1988
 DISPOSITION: REPLACEMENT

PROPOSED STRUCTURE

TYPE: 3-SPAN WIDE FLANGE CONCRETE I-BEAM WITH REINFORCED CONCRETE DECK, INTEGRAL ABUTMENTS, AND PIERS
 SPANS: 100'-0", 118'-0", 100'-0" C/C BEARINGS
 ROADWAY: 61'-7" TOE/TOE PARAPET
 LOADINGS: HL-93
 WEARING SURFACE: FINI OF 0.060 KIPS/FT
 WEARING SURFACE: 1" MONOLITHIC CONCRETE
 SKEW: 17°30'0" L.F. MEASURED FROM REFERENCE TANGENT
 APPROACH SLABS: 46', 25'-0" LONG (MODIFIED)
 ALIGNMENT: R/C TANGENT AND TANGENT
 SUPERELEVATION: VARIES FT/FT
 COORDINATES: LATITUDE 41°03'07" N
 LONGITUDE 83°40'19" W

DESIGNED	SAP	DATE
CHECKED	LEL	11/11/13
REVISED	DRWN	EES
SHEET TITLE NUMBER	PROJECT NUMBER	DATE
2453 FARMERS DRIVE	2453 FARMERS DRIVE	11/11/13
COLUMBUS, OHIO 43235	COLUMBUS, OHIO 43235	

HAZCOCK COUNTY
 STA. 896+84.24
 STA. 899+84.24
 BRIDGE NO. HAN-075-1697
 1-75 OVER BLANCHARD RIVER

HAN-75-14.39
 PID NO. 87005



PARSONS BRINCKERHOFF
 2545 FAIRMEN DRIVE
 COLUMBUS, OHIO 43230

DESIGNED	DATE
SAP	EBS
CHECKED	REVISED
P.L.	STRUCTURE FILE NUMBER

TEMPORARY ACCESS FILL
 BRIDGE NO. HAN-075-1697
 I-75 OVER BLANCHARD RIVER

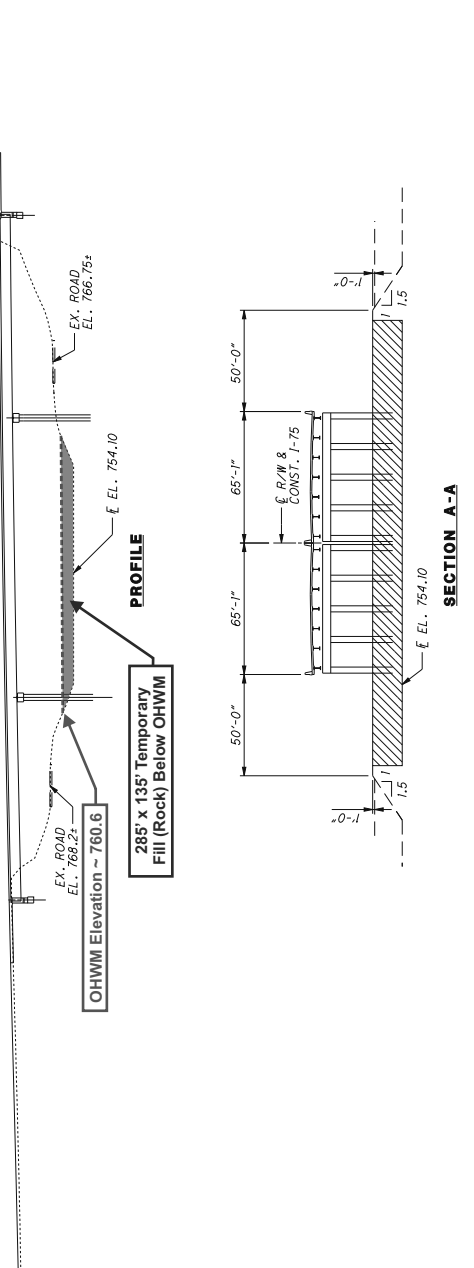
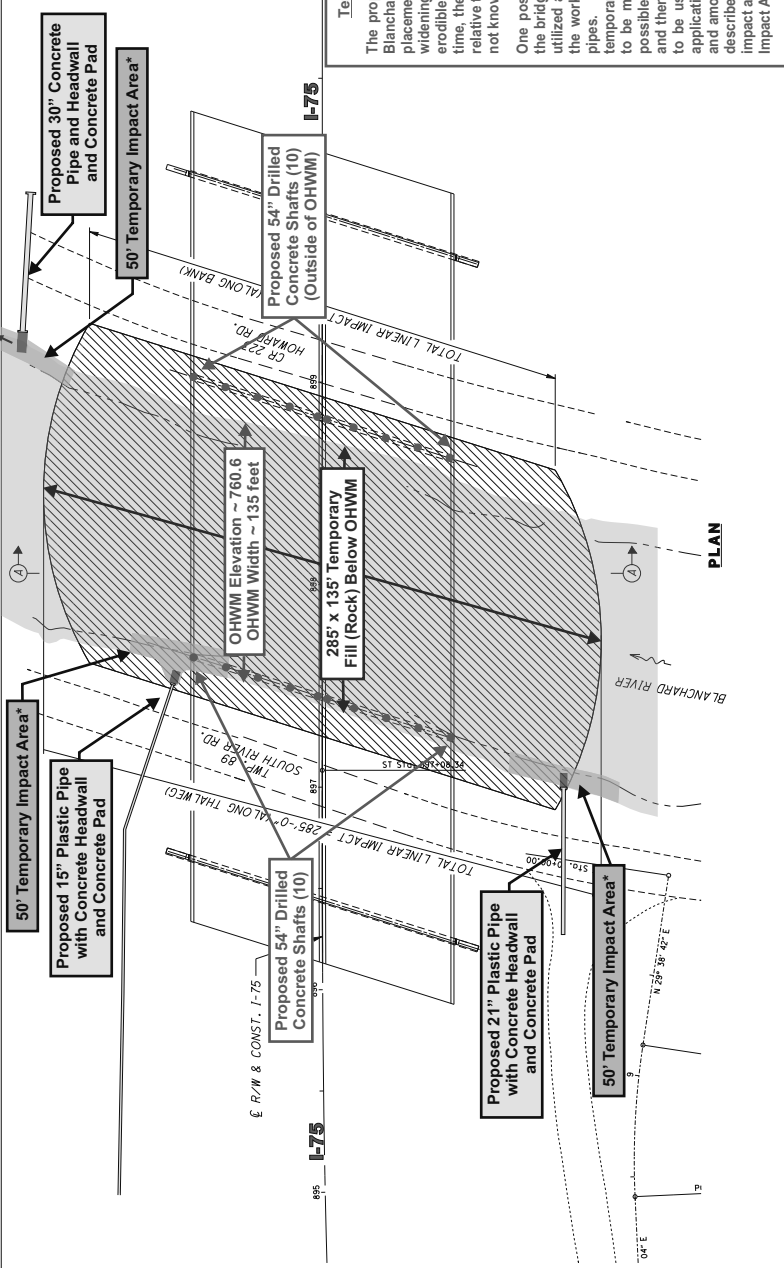
PID No. 87005
 HAN-75-14.39

* 50' Temporary Impact Areas are included for minor equipment access, grading, and other minor "non-fill" disturbances that are expected to be necessary during construction, but are not specifically known at this time (determined by the contractor). A temporary work pad is proposed for the Blanchard River during construction (see below and graphic to the left).



Temporary Impact Summary - Stream S2 (Blanchard River)
 The proposed project involves the widening of the I-75 bridge over the Blanchard River. Drilled concrete shaft construction will require the placement of temporary steel casings in the OHWM channel. The bridge widening is also expected to require the placement of a temporary non-erodible (rock) work pad in the Blanchard River OHWM channel. At this time, the exact extent of the work pad and the sequence of construction relative to the other permanent and temporary impacts at this location are not known (determined by the contractor).

One possible construction scenario involves the contractor performing the bridge work from the north and south river banks and no work pad is utilized at all. Another possible scenario involves the contractor placing the work pad across the entire river channel and maintaining flow with pipes. A third possible scenario involves the contractor placing the temporary work pad in one half of the river channel (only) - allowing flow to be maintained in the other half without temporary pipes. A fourth possible scenario involves placing the work pad in one half of the river and then moving it to the other half of the river. Since the methodology to be used is unknown and determined by the contractor, this permit application presents the worst-case scenario with regard to the extent and amount of rock fill placed in the OHWM channel (the fourth scenario described above). In addition to the work pad, additional temporary impact areas are shown on this exhibit and are described in the Temporary Impact Area text box above and on Exhibit 6a.



OHWM = ORDINARY HIGH WATER ELEVATION
 E = FLOW LINE ELEVATION
 [Hatched Box] = TEMPORARY ACCESS FILL

THE TEMPORARY ACCESS FILL SHALL ACCOMMODATE A FLOW RATE (Q) EQUAL TO TWICE THE HIGHEST MEAN MONTHLY FLOW RATES THAT ARE KNOWN TO OCCUR AT THIS LOCATION. THE OHWM AT THIS LOCATION IS 162 CFS.

Proposed Activity - Temporary Work Pad; Stream S2 (Blanchard River)
ODOT - HAN-75-14.39, PID: 87005, LRH-2013-00042-MAU - Blanchard River
 Hancock County, Ohio
 Sheet 6 of 16





HORIZONTAL SCALE IN FEET

CHECKED

CALCULATED

PLAN AND PROFILE - I-75
STA. 909+00 TO STA. 921+50

HAN-75-14.39

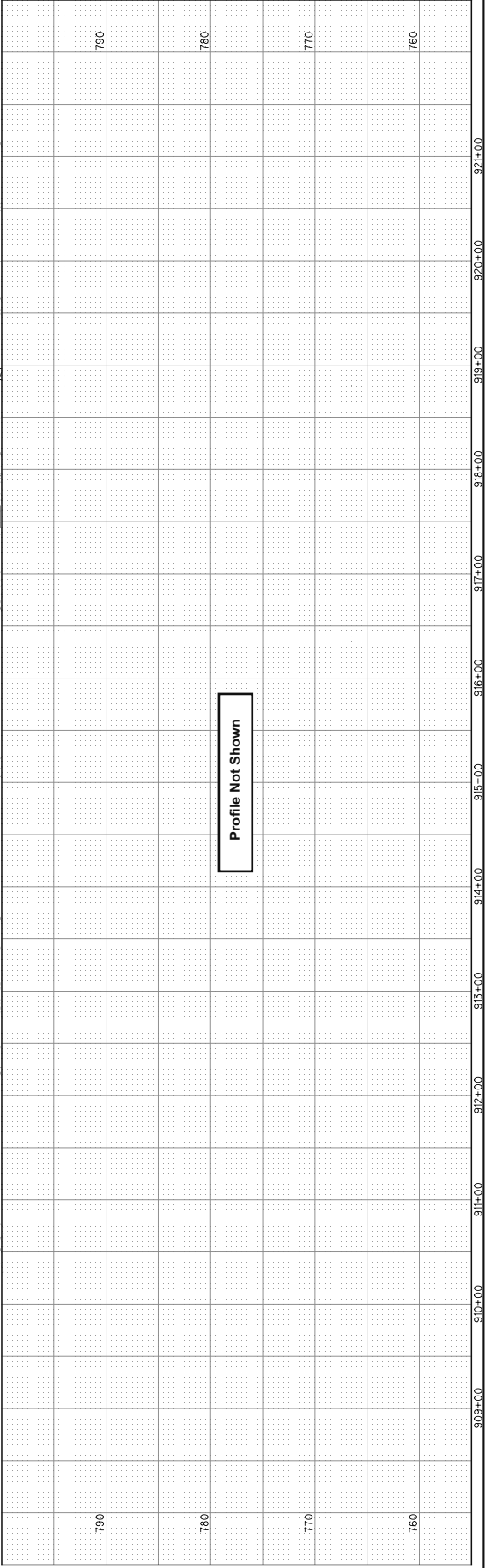
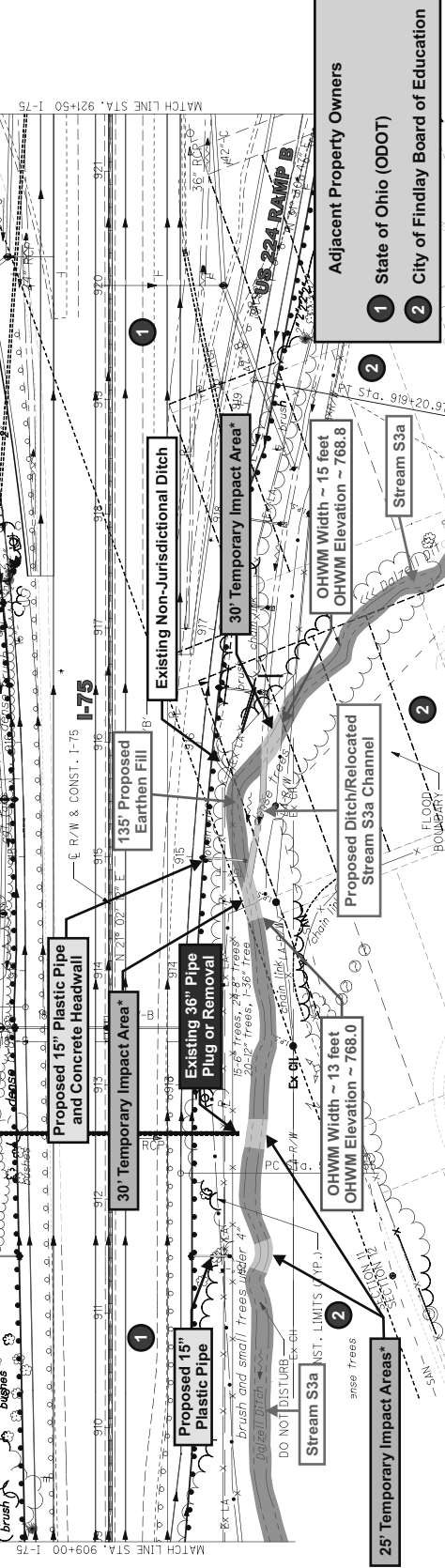
120
842

Impact Summary
(see Table C1 for details about Total Impacts)

Total Impact Length:	245 feet
Total New Impact Length:	0.078 acre
Total Impact Area:	159 cubic yards
Permanent Concrete Fill:	3 ft / 0.001 ac / 1 cy
Permanent Earthen Fill:	135 ft / 0.043 ac / 140 cy
Permanent Other (Plastic) Fill:	1 ft / 0.001 ac / 1 cy
Temporary Disturbance/Fill:	110 ft / 0.035 ac / 17 cy

* Temporary Impact Areas are included for equipment access, minor grading, and other minor "non-fill" disturbances that are expected to be necessary during construction, but are not specifically known at this time (determined by the contractor). These areas also account for any potential temporary fills that may be necessary for dewatering/flow diversions (also determined by the contractor) (see Table C1).

Proposed Activity - Stream S3a (Dalzell Ditch)
Proposed construction activities within the Stream S3a OHWM channel include filling a 135 foot section of Stream S3a and constructing a parallel ditch/stream channel immediately adjacent to the existing channel. Temporary impacts in Stream S3a are anticipated at the upstream and downstream end of the relocated channel and at the outlet of an existing drainage pipe (to be plugged or removed) and at the outlet of a proposed 15" drainage pipe. Temporary impacts are further described in the Temporary Impact Area text box on this exhibit.



Proposed Activity - Stream S3a (Dalzell Ditch)
ODOT - HAN-75-14.39, PID: 87005, LRH-2013-00042-MAU - Blanchard River
Hancock County, Ohio
Sheet 7 of 16



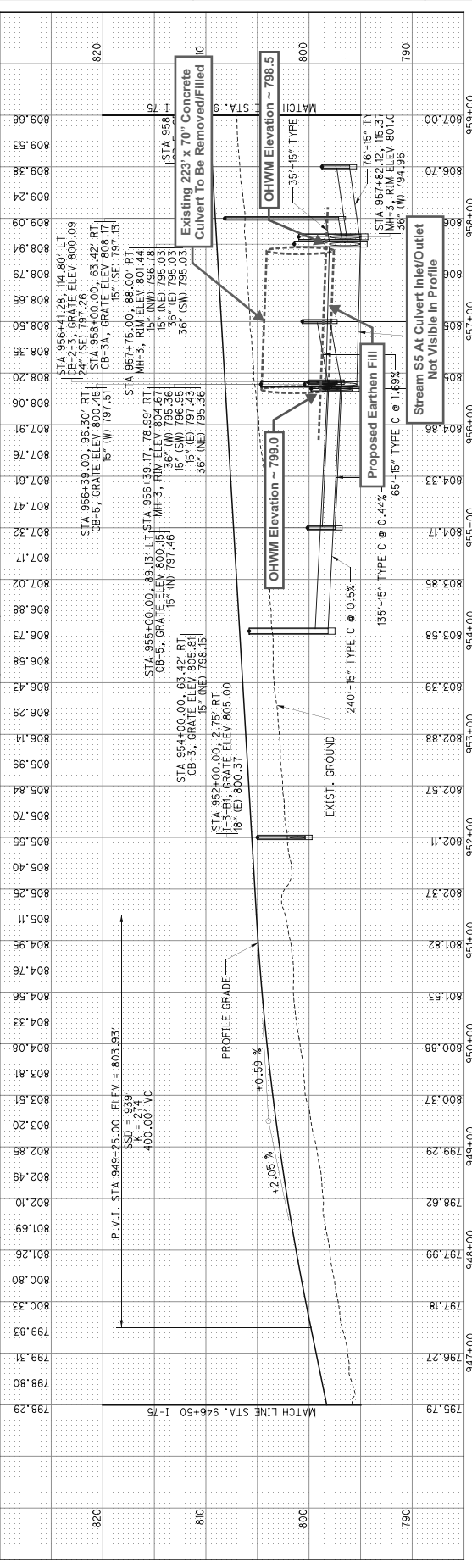
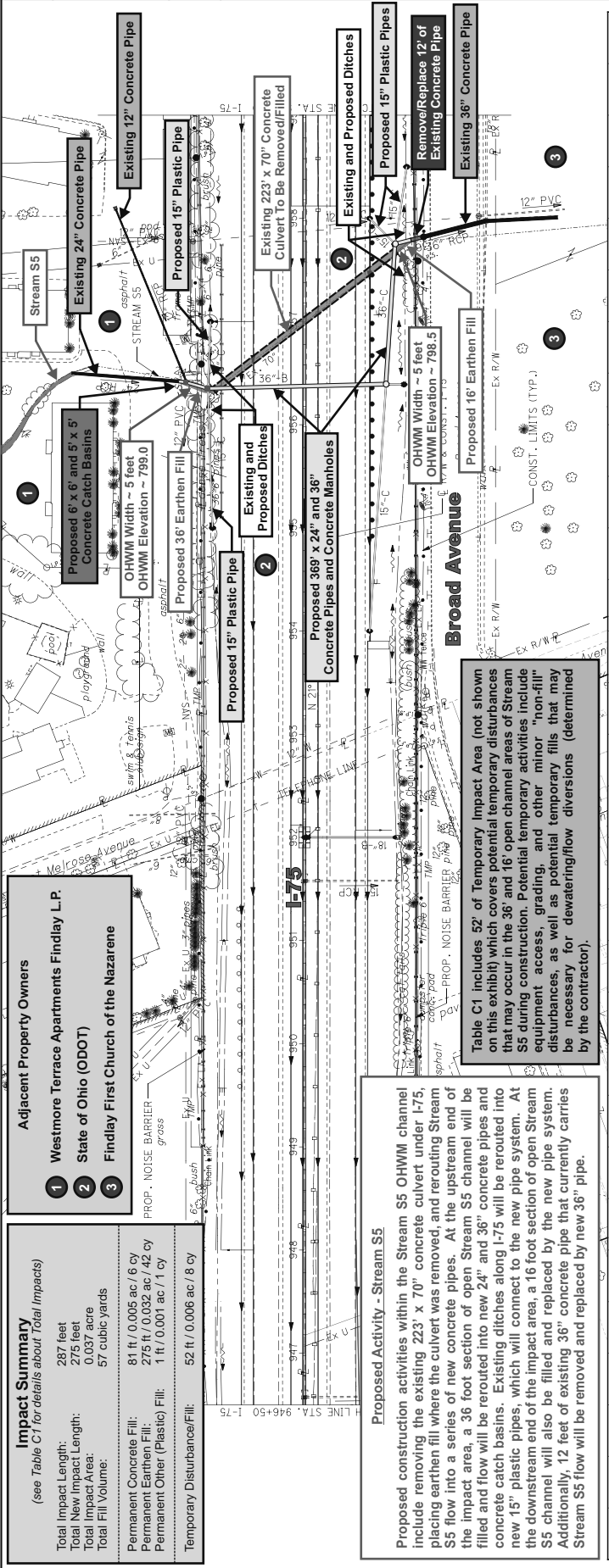
HORIZONTAL
SCALE IN FEET
1" = 40'

CHECKED
CALCULATED

PLAN AND PROFILE - I-75
STA. 946+50 TO STA. 959+00

HAN-75-14.39

125
842



- Adjacent Property Owners**
- 1 Westmore Terrace Apartments Findlay L.P.
 - 2 State of Ohio (ODOT)
 - 3 Findlay First Church of the Nazarene

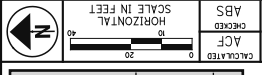
Impact Summary
(see Table C1 for details about Total Impacts)

Total Impact Length:	287 feet
Total New Impact Length:	275 feet
Total Impact Area:	0.037 acre
Total Fill Volume:	57 cubic yards
Permanent Concrete Fill:	81 ft / 0.005 ac / 6 cy
Permanent Earthen Fill:	275 ft / 0.032 ac / 42 cy
Permanent Other (Plastic) Fill:	1 ft / 0.001 ac / 1 cy
Temporary Disturbance/Fill:	52 ft / 0.006 ac / 8 cy

Proposed Activity - Stream S5

Proposed construction activities within the Stream S5 OHWM channel include removing the existing 223' x 70" concrete culvert under I-75, placing earthen fill where the culvert was removed, and rerouting Stream S5 flow into a series of new concrete pipes. At the upstream end of the impact area, a 36 foot section of open Stream S5 channel will be filled and flow will be rerouted into new 24" and 36" concrete pipes and concrete catch basins. Existing ditches along I-75 will be rerouted into new 15" plastic pipes, which will connect to the new pipe system. At the downstream end of the impact area, a 16 foot section of open Stream S5 channel will also be filled and replaced by the new pipe system. Additionally, 12 feet of existing 36" concrete pipe that currently carries Stream S5 flow will be removed and replaced by new 36" pipe.

Table C1 includes 52' of Temporary Impact Area (not shown on this exhibit) which covers potential temporary disturbances that may occur in the 36" and 16" open channel areas of Stream S5 during construction. Potential temporary activities include equipment access, grading, and other minor "non-fill" disturbances, as well as potential temporary fills that may be necessary for dewatering/flow diversions (determined by the contractor).



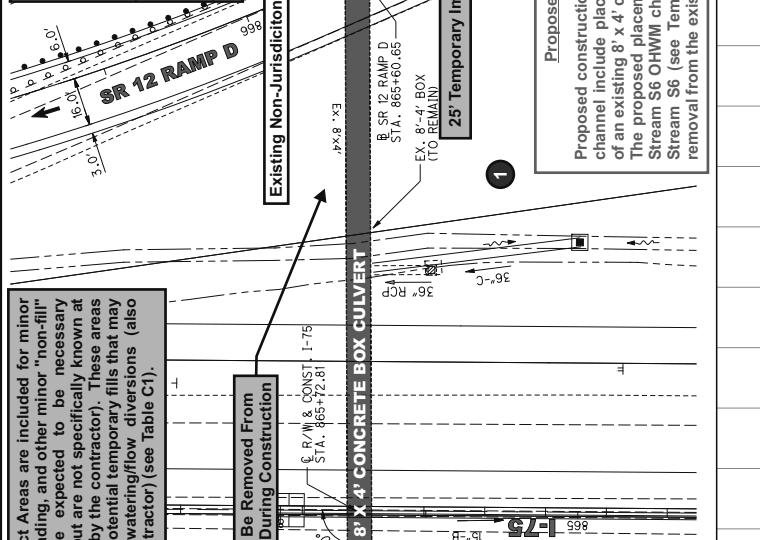
C16 CULVERT DETAIL
I-75 AT STA. 865+72.81
HAN-75-14.39

Impact Summary
(see Table C1 for details about Total Impacts)

Total Impact Length:	478 feet
Total New Impact Length:	478 feet
Total Impacts Area:	0.025 acs
Total Fill Volume:	48 cubic yards

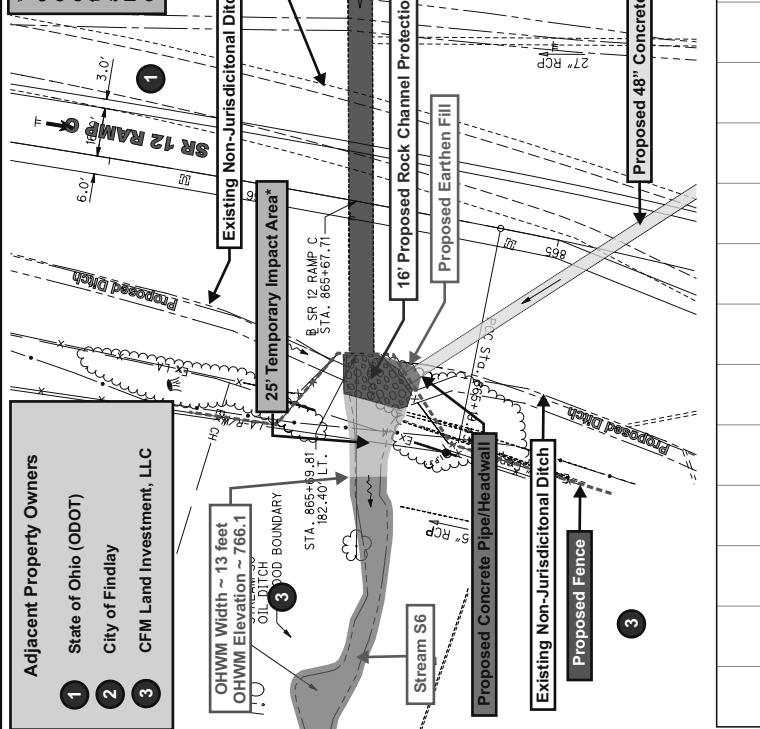
Permanent Concrete Fill:	5 ft / 0.001 ac / 2 cy
Permanent RCP Fill:	16 ft / 0.08 ac / 27 cy
Permanent Earthen Fill:	11 ft / 0.001 ac / 2 cy
Permanent Other (Steel) Fill:	11 ft / 0.001 ac / 2 cy
Temporary Disturbance/Fill:	462 ft / 0.015 ac / 16 cy

Proposed Construction Activities in the Stream S6 (Oil Ditch) OHWM
include placement of rock channel protection at the outlet of an existing 8' x 4' concrete box culvert (which will remain in place). The proposed placement of a 48" concrete pipe will also impact the Stream S6 OHWM channel. Temporary impacts are also expected in Stream S6 (see Temporary Impact Area text box), and include silt removal from the existing 8' x 4' concrete box culvert.



* 25' Temporary Impact Areas are included for minor equipment access, grading, and other minor "non-fill" disturbances that are expected to be necessary during construction, but are not specifically known at this time (determined by the contractor). These areas also account for any potential temporary fills that may be necessary for any potential temporary diversions (also determined by the contractor) (see Table C1).

Proposed Construction Activities in the Stream S6 (Oil Ditch) OHWM
include placement of rock channel protection at the outlet of an existing 8' x 4' concrete box culvert (which will remain in place). The proposed placement of a 48" concrete pipe will also impact the Stream S6 OHWM channel. Temporary impacts are also expected in Stream S6 (see Temporary Impact Area text box), and include silt removal from the existing 8' x 4' concrete box culvert.



Adjacent Property Owners

- State of Ohio (ODOT)
- City of Findlay
- CFM Land Investment, LLC

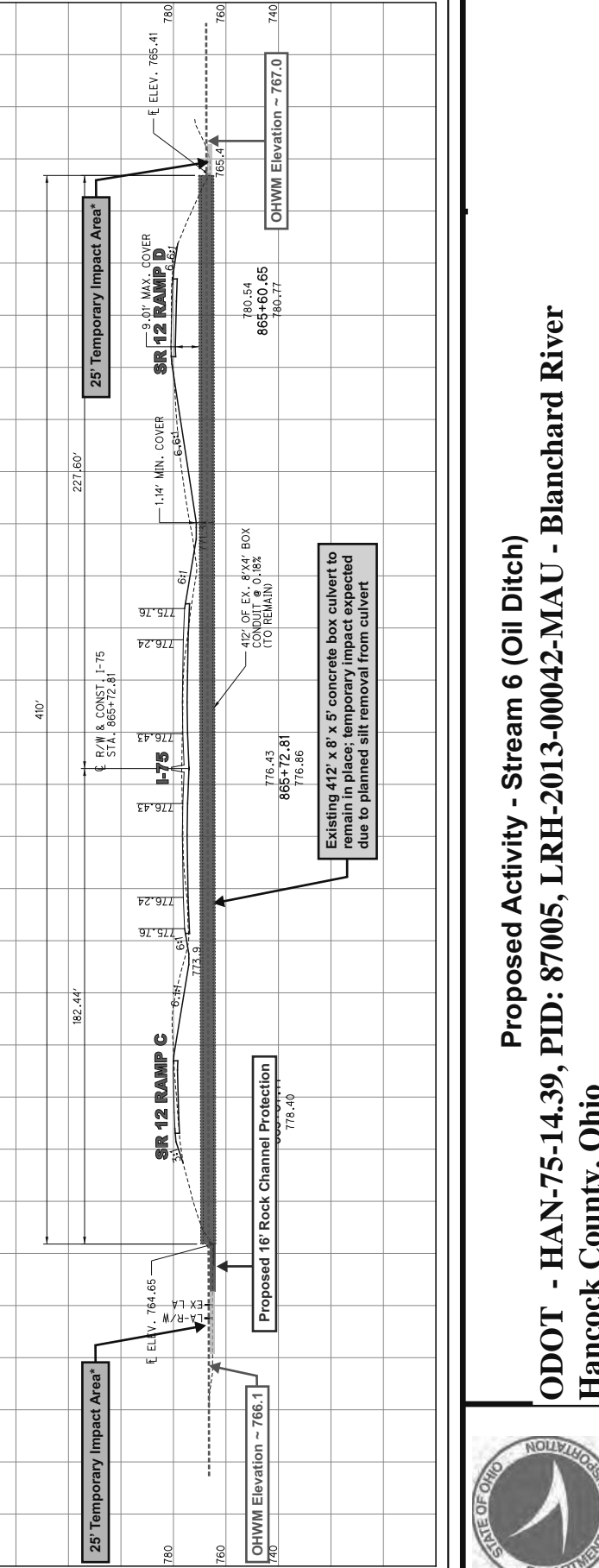
OHWM Width ~ 13 feet
OHWM Elevation ~ 766.1

Stream S6

Proposed Concrete Pipe/Headwall

Existing Non-Jurisdictional Ditch

Proposed Fence



25' Temporary Impact Area*

Existing 412' x 8' x 5' concrete box culvert to remain in place; temporary impact expected due to planned silt removal from culvert

Proposed 16' Rock Channel Protection

OHWM Elevation ~ 766.1

SR 12 RAMP C

SR 12 RAMP D

SR 12 RAMP E

SR 12 RAMP F

SR 12 RAMP G

SR 12 RAMP H

SR 12 RAMP I

SR 12 RAMP J

SR 12 RAMP K

SR 12 RAMP L

SR 12 RAMP M

SR 12 RAMP N

SR 12 RAMP O

SR 12 RAMP P

SR 12 RAMP Q

SR 12 RAMP R

SR 12 RAMP S

SR 12 RAMP T

SR 12 RAMP U

SR 12 RAMP V

SR 12 RAMP W

SR 12 RAMP X

SR 12 RAMP Y

SR 12 RAMP Z



Proposed Activity - Stream 6 (Oil Ditch)

ODOT - HAN-75-14.39, PID: 87005, LRH-2013-00042-MAU - Blanchard River

Hancock County, Ohio

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Impact Summary
 (see Table C1 for details about Total Impacts)

Total Impact Length: 44 feet
 Total New Impact Length: 44 feet
 Total Impact Area: 0.008 acre
 Total Fill Volume: 8 cubic yards
 Permanent RCP Fill: 14 ft / 0.002 ac / 4 cy
 Temporary Disturbance/Fill: 30 ft / 0.006 ac / 4 cy

* A 30' Temporary Impact Area is included for minor equipment access, grading, and other minor "non-fill" disturbances that are expected to be necessary during construction, but are not specifically known at this time (determined by the contractor). These areas also account for any potential temporary fills that may be necessary for dewatering/flow diversions (also determined by the contractor) (see Table C1).

OHWM Width ~ 8 feet
 OHWM Elevation ~ 781.2
 SERVICE RD.
 STA. 9+93.45

Proposed 8' x 5' Concrete Box Culvert
 (see Exhibits 5a and 5b)

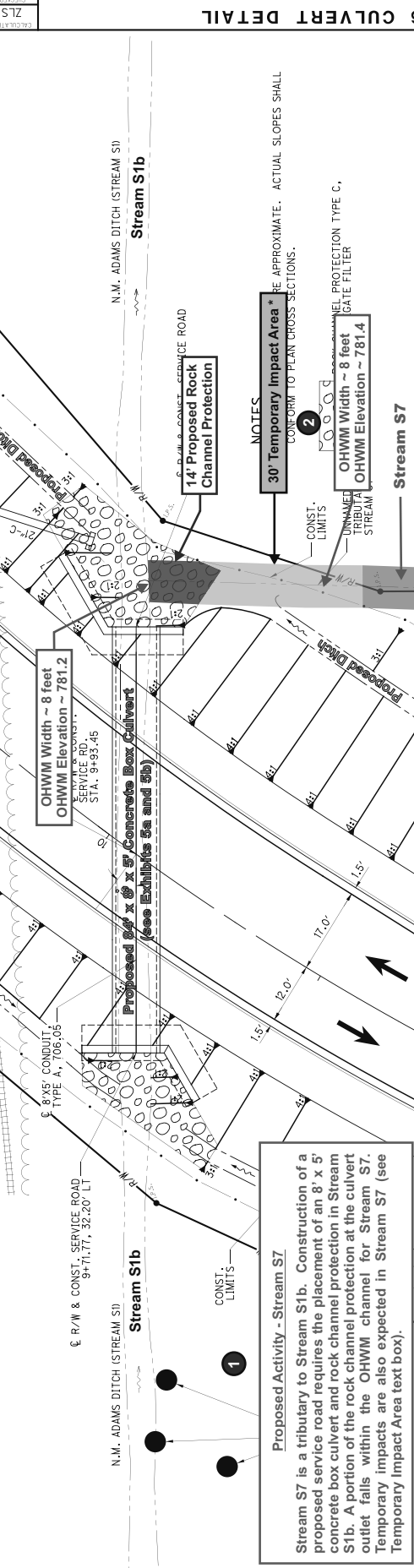
Stream S1b
 N.M. ADAMS DITCH (STREAM S1)

CONST. LIMITS

Stream S7

Adjacent Property Owners

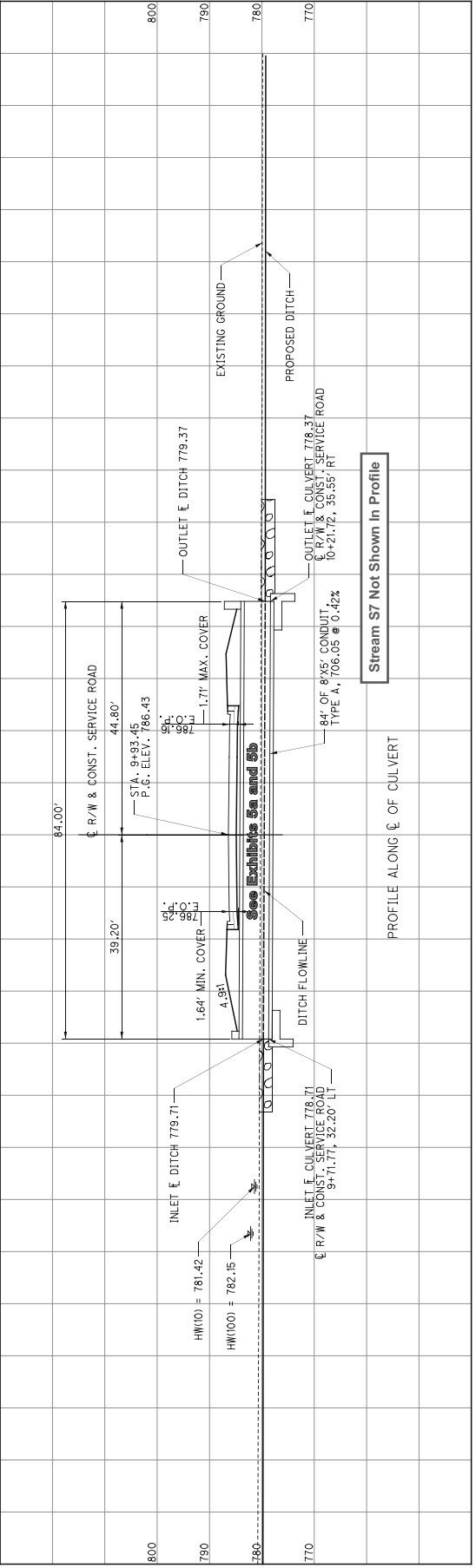
- State of Ohio (ODNR)
- National Lime and Stone Company
- Rush Trucking Center of Ohio, Inc.



Proposed Activity - Stream S7
 Stream S7 is a tributary to Stream S1b. Construction of a proposed service road requires the placement of an 8' x 5' concrete box culvert and rock channel protection in Stream S1b. A portion of the rock channel protection at the culvert outlet falls within the OHWM channel for Stream S7. Temporary impacts are also expected in Stream S7 (see Temporary Impact Area text box).

Proposed Activity - Stream S1b
 Construction of a proposed service road requires the placement of an 8' x 5' concrete box culvert and rock channel protection in Stream S1b. A portion of the rock channel protection at the culvert outlet falls within the OHWM channel for Stream S7. Temporary impacts are also expected in Stream S7 (see Temporary Impact Area text box).

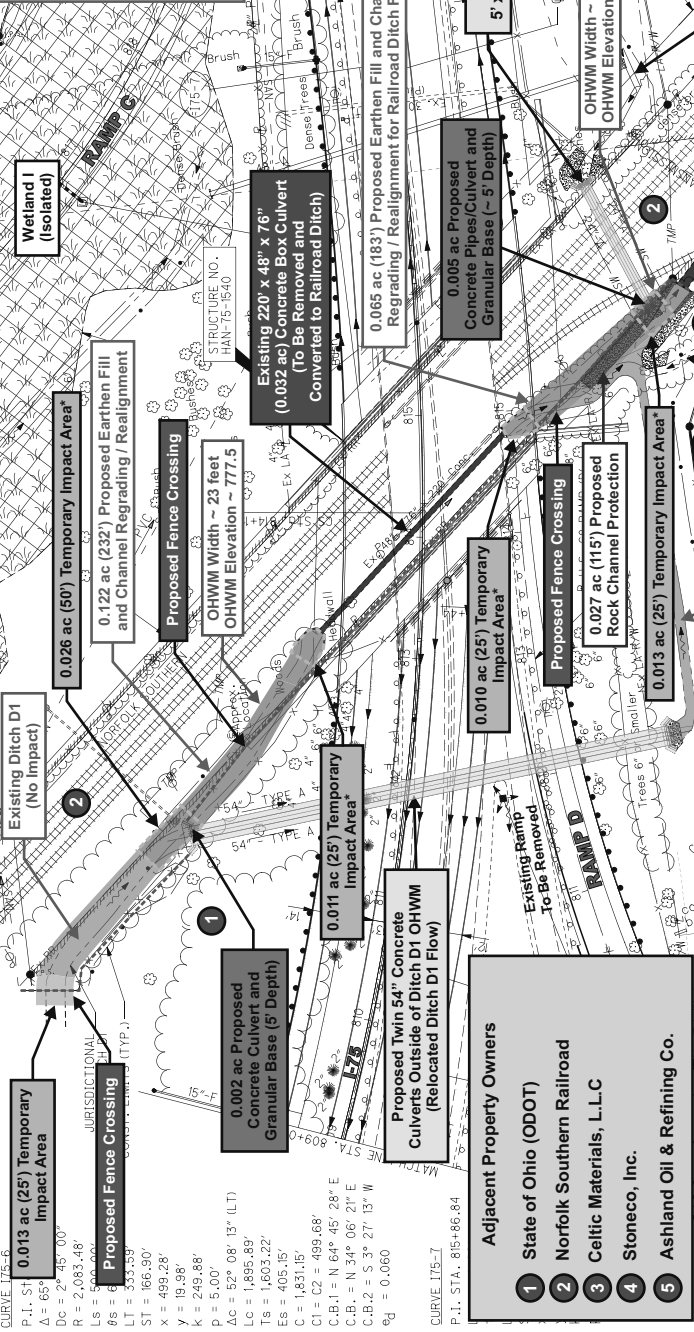
Notes
 30' Temporary Impact Area * BE APPROXIMATE. ACTUAL SLOPES SHALL CONFORM TO PLAN CROSS SECTIONS.
 14' Proposed Rock Channel Protection
 OHWM Width ~ 8 feet
 OHWM Elevation ~ 781.4
 UNPAVED TRIBUTARY STREAM
 GATE FILTER
 PROTECTION TYPE C,
 (TO BE REMOVED)



Stream S7 Not Shown in Profile



Proposed construction activities in the Ditch D1b OHWM channel include the relocation of ditch flow into new twin 54" concrete culverts and a new ditch channel (on new alignment). The existing Ditch D1b channel between the new 54" culverts and the existing 220' x 48" x 76" concrete box culvert under I-75 will be filled. The existing box culvert under I-75 will be removed and converted into a railroad ditch. The existing Ditch D1b channel downstream of the box culvert will be filled/regraded and realigned and will connect with relocated Ditch D1b. There will be no impact on the existing concrete pipe under the railroad spur at the downstream end of the Ditch D1b impact area. Temporary impacts to Ditch D1b are also expected in this area (see Temporary Impact Area text box).



SHEET NO.	CROSS SECTIONS	DESCRIPTION	ESTIMATED
820			
810			

* Five Temporary Impact Areas are included for Ditch D1b. The first is at the upstream end of the impact area (for temporary disturbances due to fence construction). One is at the inlet of the proposed twin 54" culverts since temporary impacts to Ditch D1b may occur during placement of these culverts. Two are at the upstream and downstream end of existing box culvert under the I-75 railroad bridge due to the potential for temporary impacts during removal of that culvert. The last is at the outlet of the proposed twin 24" pipes (or 5' x 2' box culvert) due to the potential for temporary impacts to Ditch D1b during construction. These temporary impact areas cover equipment access, minor grading, and other minor "non-fill" disturbances that are expected to be necessary during construction, but are not specifically known at this time (determined by the contractor). These areas also account for any potential temporary fills that may be necessary for dewatering/flow diversions (also determined by the contractor) (see Table C2).

CURVE I75-6
P.I. STA. 809+00
A = 65'
Dc = 2' 45" 70"
R = 2,083.48'
Ls = 540.00'
Ts = 540.00'
LT = 333.333'
ST = 166.90'
LC = 529.08' 13" (L.T.)
LS = 1,695.69'
ES = 405.15'
C = 1,831.15'
C1 = C2 = 499.68'
C.B.1 = N 64° 45' 28" E
C.B.2 = N 34° 06' 21" E
C.B.2 = S 3° 27' 13" W
e_s = 0.060

CURVE I75-7
P.I. STA. 815+86.84
A = 65'
Dc = 2' 45" 70"
R = 2,083.48'
Ls = 540.00'
Ts = 540.00'
LT = 333.333'
ST = 166.90'
LC = 529.08' 13" (L.T.)
LS = 1,695.69'
ES = 405.15'
C = 1,831.15'
C1 = C2 = 499.68'
C.B.1 = N 64° 45' 28" E
C.B.2 = N 34° 06' 21" E
C.B.2 = S 3° 27' 13" W
e_s = 0.060

Adjacent Property Owners

- State of Ohio (ODOT)
- Norfolk Southern Railroad
- Celtic Materials, LLC
- Stonoco, Inc.
- Ashland Oil & Refining Co.

Impact Summary
(see Table C2 for details about Total Impacts)

Total Impact Length:	NA
Total Impact Area:	0.267 acre
Total Impact Area:	0.267 acre
Total Fill Volume:	903 cubic yards
Permanent Concrete Fill:	0.007 ac / 44 cy
Permanent RCP Fill:	0.027 ac / 67 cy
Permanent Estimator Fill:	0.005 ac / 42 cy
Permanent Other (Steel) Fill:	0.001 ac / 4 cy
Temporary Disturbance Fill:	0.064 ac / 129 cy





CHECKED: _____
SCALE IN FEET

PLAN AND PROFILE - I-75
STA. 971+50 TO STA. 984+00

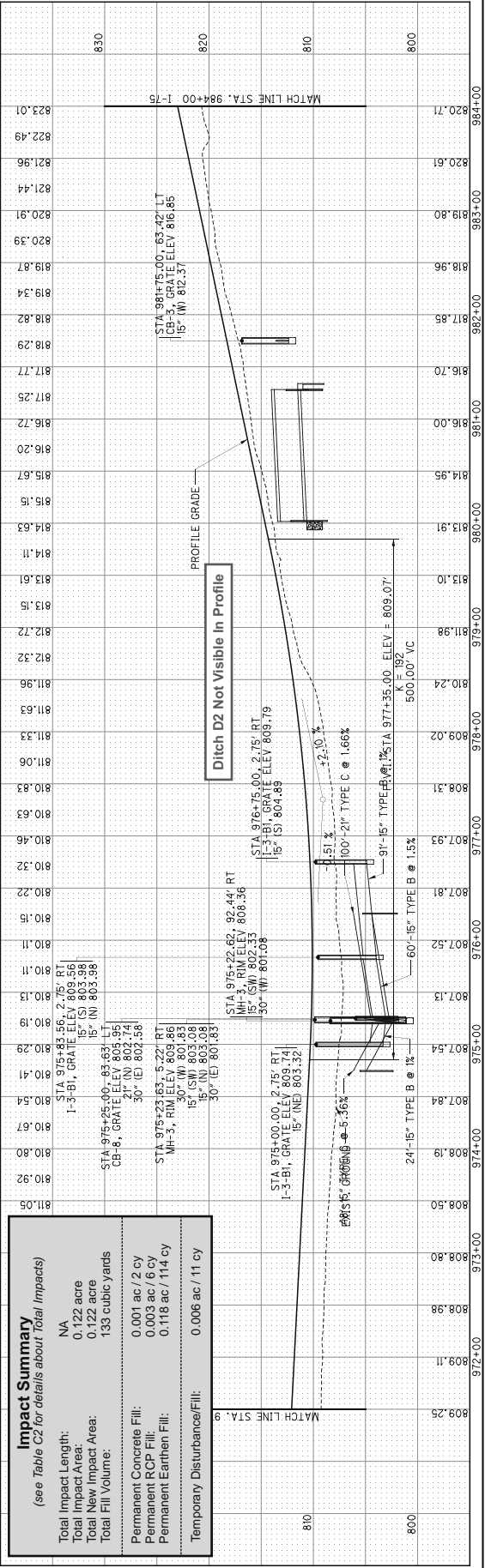
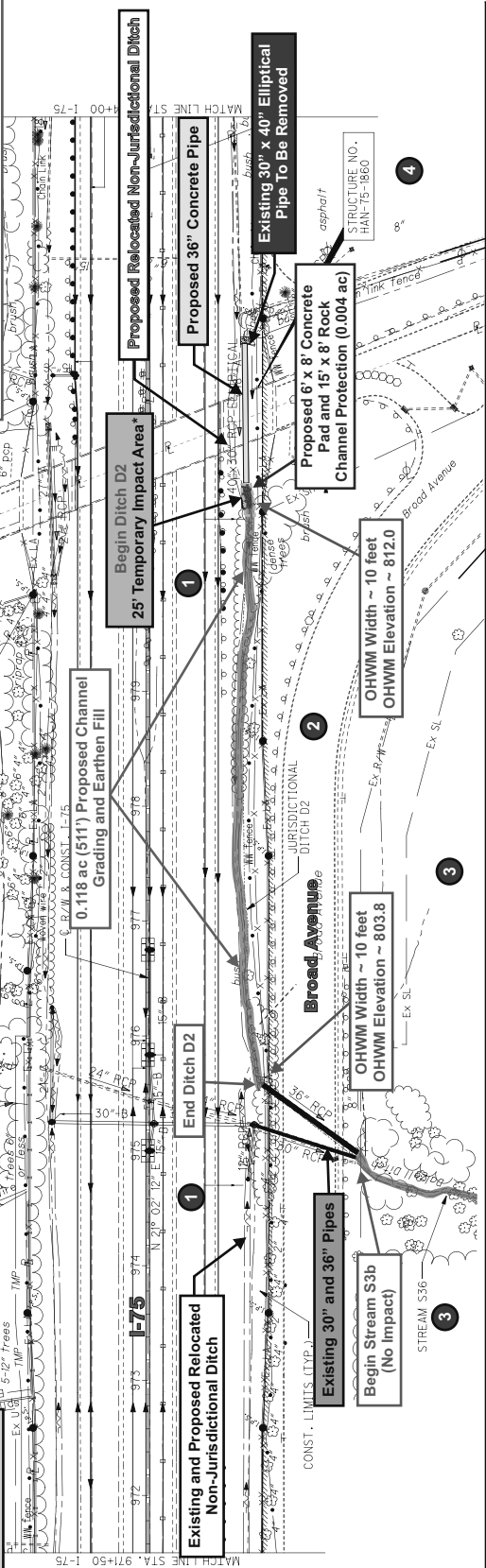
HAN-75-14.39

127
842

Proposed Activity - Jurisdictional Ditch D2
Proposed construction activities within the Ditch D2 OHWM channel include regrading and placing earthen fill in the existing ditch and reconstructing the ditch on generally the same alignment and vertical elevation. A small amount of concrete and rock channel protection will also be placed in Ditch D2 at the outlet of a proposed 36" concrete pipe, which is replacing an existing 30" x 40" elliptical concrete pipe.

A 25' Temporary Impact Area is included at the beginning of Ditch D2 due to the potential for temporary impacts during replacement of the existing concrete pipe. Potential temporary activities include equipment access, grading, and other minor "non-fill" disturbances, as well as potential temporary fills that may be necessary for dewatering/diversions (determined by the contractor) (see Table C2).

- Adjacent Property Owners**
- 1 State of Ohio (ODOT)
 - 2 City of Findlay
 - 3 Knuko, LLC.
 - 4 Findlay Church of God



Impact Summary
(see Table C2 for details about Total Impacts)

Total Impact Length:	NA
Total Impact Area:	0.122 acre
Total New Impact Area:	0.122 acre
Total Fill Volume:	133 cubic yards
Permanent Concrete Fill:	0.001 ac / 2 cy
Permanent RCP Fill:	0.003 ac / 6 cy
Permanent Earthen Fill:	0.118 ac / 114 cy
Temporary Disturbance/Fill:	0.006 ac / 11 cy



Proposed Activity - Jurisdictional Ditch D2

ODOT - HAN-75-14.39, PID: 87005, LRH-2013-00042-MAU - Blanchard River

Hancock County, Ohio

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Adjacent Property Owners

- 1 State of Ohio (ODOT)
- 2 Norfolk Southern Railroad

$ST = 66.75'$
 $X = 109.74'$
 $Y = 7.56'$
 $K = 99.96'$
 $P = 1.89'$

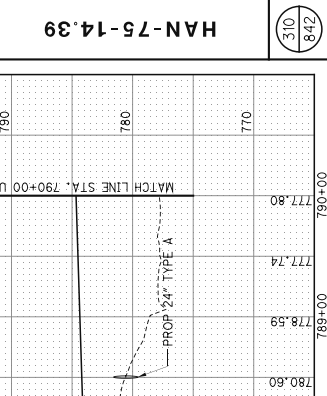
$\Delta C = 85^\circ 55' 42'' (L.T.)$
 $Lc = 1,321.97'$
 $Ts = 1,132.93'$
 $Es = 477.71'$
 $C = 1,201.52'$
 $CI = C2 = 199.89'$
 $C.B.1 = N 47^\circ 51' 35'' W$
 $C.B.2 = S 84^\circ 50' 34'' W$
 $C.B.2 = N 37^\circ 32' 42'' E$

PLAN AND PROFILE - U.S. 68 RAMP 'A'

STA. 777+50 TO STA. 790+00

HAN-75-14.39

(8/2) 310



Impact Summary
(see Table C3 for details about Total Impacts)

Total Impact Length:	NA
Total Impact Area:	2.900 acres
Total New Impact Area:	2.900 acres
Total Fill Volume:	4,678 cubic yards
Permanent Concrete Fill:	0.001 ac / 1 cy
Permanent RCP Fill:	0.001 ac / 1 cy
Permanent Earthen Fill:	2.895 ac / 4,671 cy
Permanent Other (Plastic) Fill:	0.003 ac / 5 cy
Temporary Disturbance/Fill:	0.000 ac / 0 cy

Proposed Activity - Wetland E

Wetland E will be filled for the widening of I-75 and the reconfiguration of the I-75/US 68 interchange ramps (Ramp A and Ramp C construction). In addition to the placement of earthen fill, activities in Wetland E include the placement of two 15" plastic drainage pipes and a small amount of rock channel protection, and the construction of shallow drainage ditches in the earthen fill (with minimal excavation of the existing wetland).

Proposed Activity - Wetland E

Wetland E will be filled for the widening of I-75 and the reconfiguration of the I-75/US 68 interchange ramps (Ramp A and Ramp C construction). In addition to the placement of earthen fill, activities in Wetland E include the placement of two 15" plastic drainage pipes and a small amount of rock channel protection, and the construction of shallow drainage ditches in the earthen fill (with minimal excavation of the existing wetland).

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Proposed Activity - Wetland E

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Proposed Activity - Wetland E

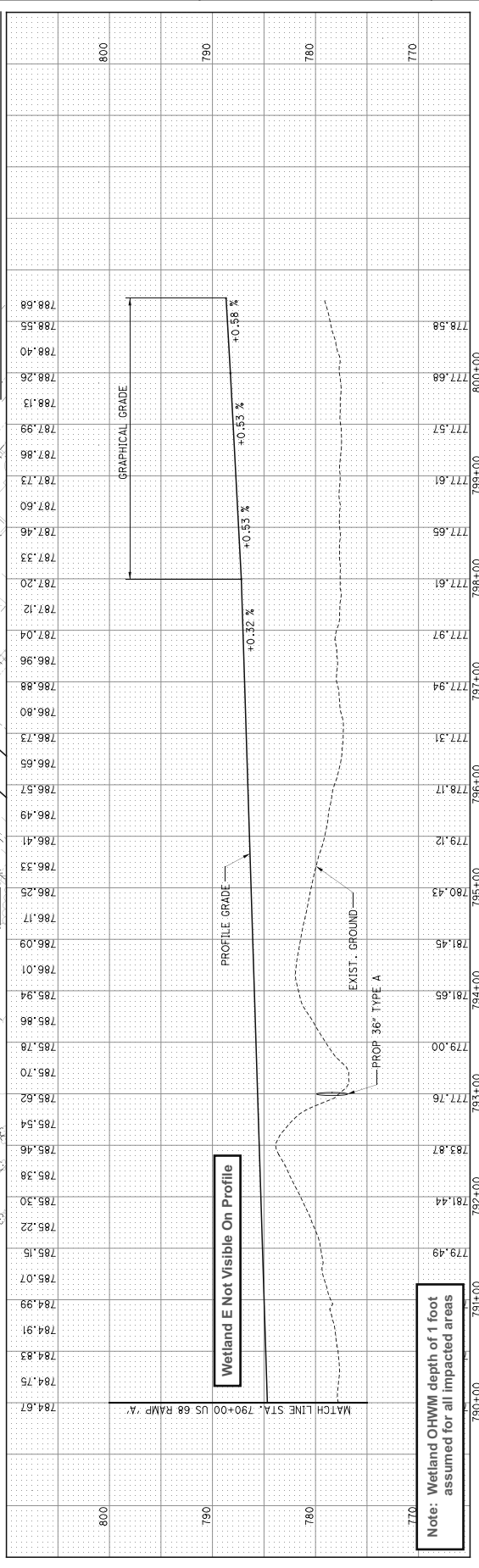
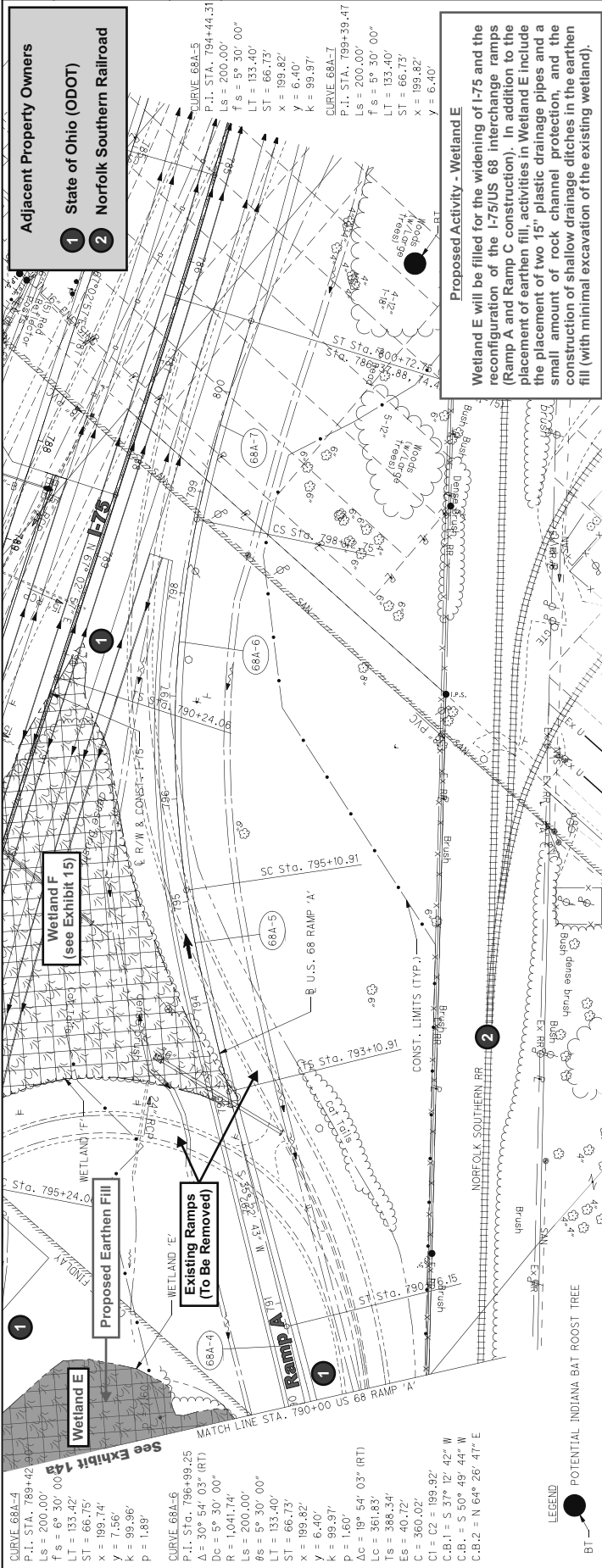
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Proposed Activity - Wetland E

ODOT - HAN-75-14.39, PID: 87005, LRH-2013-00042-MAU - Blanchard River

Hancock County, Ohio

Sheet 14 of 16



Proposed Activity - Wetland E

ODOT - HAN-75-14.39, PID: 87005, LRH-2013-00042-MAU - Blanchard River

Hancock County, Ohio

Sheet 15 of 16

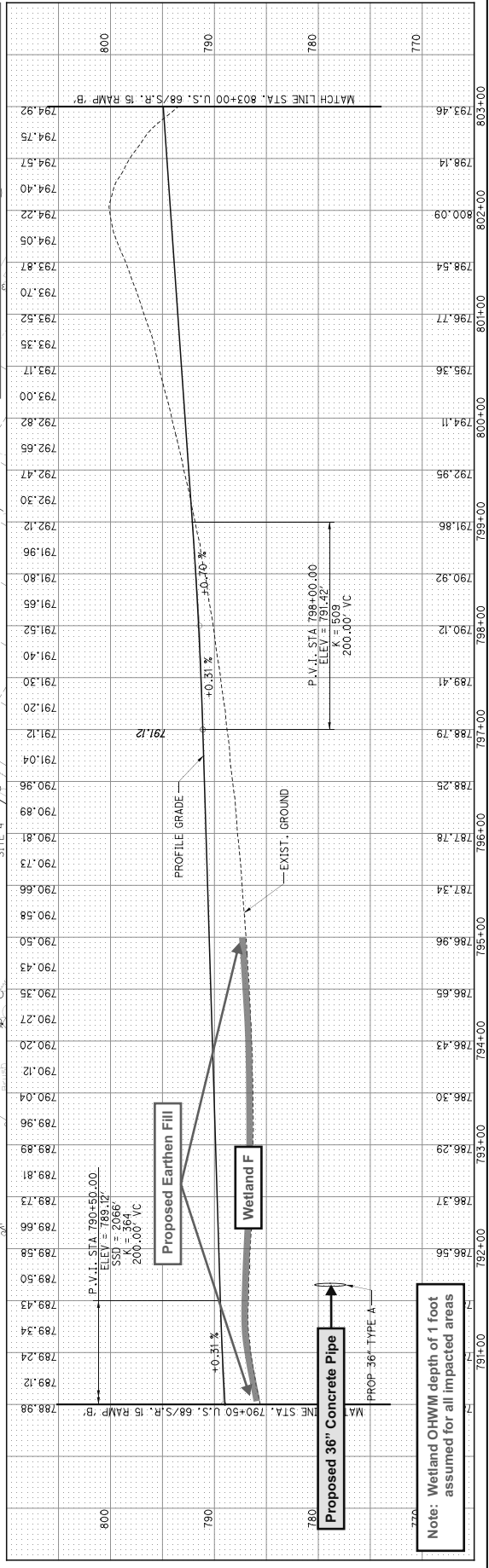
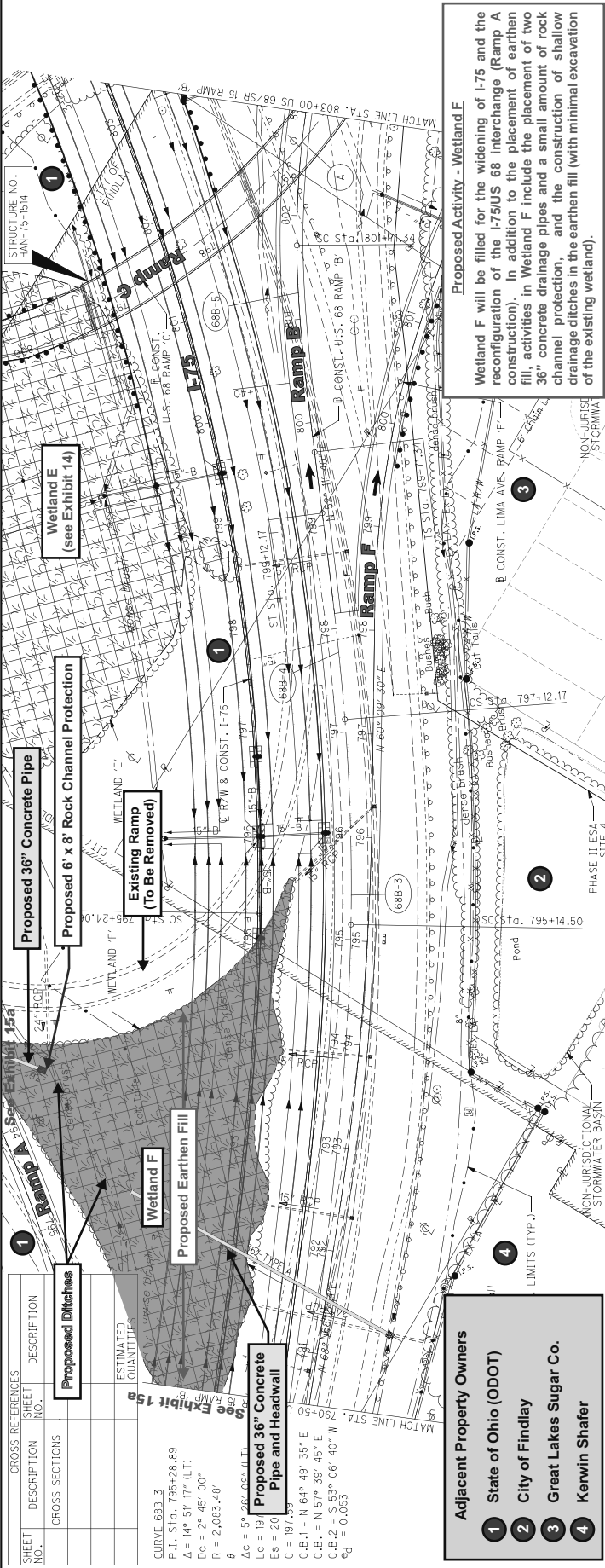


HORIZONTAL SCALE IN FEET
 1" = 40'

PLAN AND PROFILE - U.S. 68 RAMP 'B'
 STA. 790+50 TO STA. 803+00

HAN-75-14.39

313
 842



Note: Wetland OHWM depth of 1 foot assumed for all impacted areas



Proposed Activity - Wetland F

ODOT - HAN-75-14.39, PID: 87005, LRH-2013-00042-MAU - Blanchard River

Hancock County, Ohio

Sheet 16 of 16



**US Army Corps of Engineers
Huntington District**

Permit Number: 2013-00042-MAU

Name of Permittee: Ohio Department of Transportation

Date of Issuance: August 6, 2014

Upon completion of the activity authorized by this permit and any mitigation required by the permit, sign this certification and return it to the following address:

U.S. Army Corps of Engineers - Huntington District
Building 10/ Section 10
PO Box 3990
Columbus, OH 43218-3990

Please note that your permitted activity is subject to a compliance inspection by an U.S. Army Corps of Engineers representative. If you fail to comply with this permit you are subject to permit suspension, modification, or revocation.

I hereby certify that the work authorized by the above-referenced permit has been completed in accordance with the terms and conditions of the said permit, and required mitigation was completed in accordance with the permit conditions.

Signature of Permittee

Date