



**DEPARTMENT OF THE ARMY**  
HUNTINGTON DISTRICT, CORPS OF ENGINEERS  
502 EIGHTH STREET  
HUNTINGTON, WEST VIRGINIA 25701-2070

August 6, 2014

REPLY TO  
ATTENTION OF

Regulatory Division  
South/Transportation Branch  
LRH-2013-00042-MAU – Blanchard River  
HAN-75-14.39, PID 87005

Mr. Timothy Hill  
Ohio Department of Transportation  
1980 West Broad Street, Mail Stop 4170  
Columbus, Ohio 43223

Dear Mr. Hill:

Enclosed are one original and one copy of Department of the Army Permit Number LRH-2013-00042-MAU, which authorizes the discharge of fill material into waters of the U.S. to improve operational efficiency and safety by reducing traffic congestion along the Interstate 75 corridor through the City of Findlay, Hancock County, Ohio. The project would include the permanent discharge of approximately 1,514 cubic yards of fill material into approximately 1,516 feet (0.356 acre) of perennial and intermittent stream channel; 1,355 cubic yards into 0.518 acre of jurisdictional ditches, and 7,211 cubic yards into 4.47 acres of wetlands. The project would also include the temporary discharge of 8,452 cubic yards of fill material into approximately 1,116 (0.998 acre) feet of perennial and intermittent stream channel and 188 cubic yards into 0.098 acre of jurisdictional ditches.

The original copy of this permit is for your records. The enclosed copy of the authorization must be supplied to the project engineers responsible for the construction activities. If any changes in the location and plans of the work become necessary, revised plans must be submitted to this office for approval as required by law, before work is initiated. It is imperative that this office be notified two weeks prior to the commencement of construction, and again upon completion of activities.

Upon completion of the work, the attached certification must be signed and returned to this office. If you have any questions regarding the information in this letter or the enclosures, please contact Tim Long of the Columbus Field Office at (614) 692-4660.

Sincerely,

Ginger Mullins, Chief  
Regulatory Division

Enclosures

Copies furnished w/ enclosures:  
Mr. Mark Epstein  
Ohio Historic Preservation Office  
800 East 17<sup>th</sup> Avenue  
Columbus, Ohio 43211-2474

Mr. Dave Schulenburg  
United States Environmental Protection Agency  
Region 5, WQW-16-J  
77 West Jackson Street  
Chicago, Illinois 60604-3590

Copy furnished w/ enclosures via e-mail:  
Joni Lung  
Ohio Environmental Protection Agency  
Division of Surface Water  
P.O. Box 1049  
Columbus, Ohio 43216-1049  
[Joni.Lung@epa.state.oh.us](mailto:Joni.Lung@epa.state.oh.us)

Karen Hallberg  
United States Fish and Wildlife Service  
4625 Morse Road, Suite 104  
Columbus, Ohio 43230  
[Karen\\_Hallberg@fws.gov](mailto:Karen_Hallberg@fws.gov)

Adrienne Earley  
Ohio Department of Transportation  
1980 West Broad Street  
Mail Stop 4170  
Columbus, Ohio 43223  
[Adrienne.Earley@dot.state.oh.us](mailto:Adrienne.Earley@dot.state.oh.us)

Mike Pettegrew  
Ohio Department of Transportation  
1980 West Broad Street  
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Columbus, Ohio 43223  
[Mike.Pettegrew@dot.state.oh.us](mailto:Mike.Pettegrew@dot.state.oh.us)

Mark Scalabrino  
U.S. Army Corps of Engineers, Buffalo District  
1776 Niagara Street  
Buffalo, New York 14207-3199  
[Mark.W.Scalabrino@usace.army.mil](mailto:Mark.W.Scalabrino@usace.army.mil)

John Kessler  
Ohio Department of Natural Resources  
Office of Real Estate  
2045 Morse Road, Bldg E-2  
Columbus, Ohio 43229-6605  
[John.Kessler@dnr.state.oh.us](mailto:John.Kessler@dnr.state.oh.us)

Brian Mitch  
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2045 Morse Road, Bldg E-2  
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[Brian.Mitch@dnr.state.oh.us](mailto:Brian.Mitch@dnr.state.oh.us)

Nancy Campbell  
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800 East 17<sup>th</sup> Avenue  
Columbus, Ohio 43211-2474  
[ncampbell@ohiohistory.org](mailto:ncampbell@ohiohistory.org)

Thomas Grooms  
Ohio Historic Preservation Office  
800 East 17<sup>th</sup> Avenue  
Columbus, Ohio 43211-2474  
[tgrooms@ohiohistory.org](mailto:tgrooms@ohiohistory.org)



DEPARTMENT OF THE ARMY PERMIT

Permittee: Ohio Department of Transportation

Permit No: LR11-2013-00042-MAU- Blanchard River

Issuing Office: Huntington District

NOTE: The term "you" and its derivatives, as used in this permit, means the permittee or any future transferee. The term "this office" refers to the appropriate district or division office of the Corps of Engineers having jurisdiction over the permitted activity or the appropriate official of that office acting under the authority of the commanding officer.

You are authorized to perform work in accordance with the terms and conditions specified below.

Project Description: You are authorized to discharge approximately 1,514 cubic yards of fill material into approximately 1,516 feet (0.356 acre) of perennial and intermittent stream channel; 1,355 cubic yards into 0.518 acre of jurisdictional ditches, and 7,211 cubic yards into 4.47 acres of wetlands in conjunction with the descriptions below and as described in Tables 1 and 2 (attached).

This permit also authorizes the temporary discharge of 8,452 cubic yards of fill material into approximately 1,116 (0.998 acre) of feet of perennial and intermittent stream channel and 188 cubic yards into 0.098 acre of jurisdictional ditches in conjunction with the descriptions below and as described in Table 1 (attached).

Project Location: Interstate 75 (I-75) between Allen Township Road 99 to the north and Lima Avenue to the south, in the City of Findlay, Hancock County, Ohio.

Center Coordinate: Latitude 41.037 North, Longitude 83.673 West

Permit Conditions:

General Conditions:

1. The time limit for completing the work authorized ends on December 31, 2019. If you find that you need more time to complete the authorized activity, submit your request for a time extension to this office for consideration at least one month before the above date is reached.
2. You must maintain the activity authorized by this permit in good condition and in conformance with the terms and conditions of this permit. You are not relieved of this requirement if you abandon the permitted activity, although you may make a good faith transfer to a third party in compliance with General Condition 4 below. Should you wish to cease to maintain the authorized activity or should you desire to abandon it without a good faith transfer, you must obtain a modification of this permit from this office, which may require restoration of the area.
3. If you discover any previously unknown historic or archeological remains while accomplishing the activity authorized by this permit, you must immediately notify this office of what you have found. We will initiate the Federal and state coordination required to determine if the remains warrant a recovery effort or if the site is eligible for listing in the National Register of Historic Places.
4. If you sell the property associated with this permit, you must obtain the signature of the new owner in the space provided and forward a copy of the permit to this office to validate the transfer of this authorization.

5. If a conditioned water quality certification has been issued for your project, you must comply with the conditions specified in the certification as special conditions to this permit. For your convenience, a copy of the certification is attached if it contains such conditions.
6. You must allow representatives from this office to inspect the authorized activity at any time deemed necessary to ensure that it is being or has been accomplished in accordance with the terms and conditions of your permit.

Special Conditions:

The Special Conditions for this permit are listed on separate pages and are titled: "SPECIAL CONDITIONS OF THE PERMIT ISSUED TO THE OHIO DEPARTMENT OF TRANSPORTATION, Blanchard River - LR11-2013-00042-MAU, HAN-75-14.39, PID 87005"

Further Information:

1. Congressional Authorities: You have been authorized to undertake the activity described above pursuant to:
  - (i) Section 10 of the Rivers and Harbors Act of 1899 (33 U.S.C. 403).
  - (ii) Section 404 of the Clean Water Act (33 U.S.C. 1344).
  - (iii) Section 103 of the Marine Protection, Research and Sanctuaries Act of 1972 (33 U.S.C. 1413).
2. Limits of this authorization:
  - a. This permit does not obviate the need to obtain other Federal, state, or local authorizations required by law.
  - b. This permit does not grant any property rights or exclusive privileges.
  - c. This permit does not authorize any injury to the property or rights of others.
  - d. This permit does not authorize interference with any existing or proposed Federal project.
3. Limits of Federal Liability: In issuing this permit, the Federal Government does not assume any liability for the following:
  - a. Damages to the permitted project or uses thereof as a result of other permitted or unpermitted activities or from natural causes.
  - b. Damages to the permitted project or uses thereof as a result of current or future activities undertaken by or on behalf of the United States in the public interest.
  - c. Damages to persons, property, or to other permitted or unpermitted activities or structures caused by the activity authorized by this permit.
  - d. Design or construction deficiencies associated with the permitted work.
  - e. Damage claims associated with any future modification, suspension, or revocation of this permit.
4. Reliance on Applicant's Data: The determination of this office that issuance of this permit is not contrary to the public interest was made in reliance on the information you provided.
5. Reevaluation of Permit Decision: This office may reevaluate its decision on this permit at any time the circumstances warrant. Circumstances that could require a reevaluation include, but are not limited to, the following:

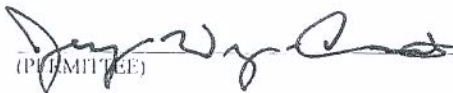


- a. You fail to comply with the terms and conditions of this permit.
- b. The information provided by you in support of your permit application proves to have been false, incomplete, or inaccurate (See 4 above).
- c. Significant new information surfaces, which this office did not consider in reaching the original public interest decision.

Such a reevaluation may result in a determination that it is appropriate to use the suspension, modification, and revocation procedures contained in 33 CFR 325.7 or enforcement procedures such as those contained in 33 CFR 326.4 and 326.5. The referenced enforcement procedures provide for the issuance of an administrative order requiring you to comply with the terms and conditions of your permit and for the initiation of legal action where appropriate. You will be required to pay for any corrective measures ordered by this office, and if you fail to comply with such directive, this office may in certain situations (such as those specified in 33 CFR 209.170) accomplish the corrective measures by contract or otherwise and bill you for the cost.

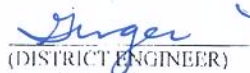
- 6. Extensions. General Condition 1 establishes a time limit for the completion of the activity authorized by this permit. Unless there are circumstances requiring either a prompt completion of the authorized activity or a reevaluation of the public interest decision, the Corps will normally give favorable consideration to a request for an extension of this time limit.

Your signature below, as permittee, indicates that you accept and agree to comply with the terms and conditions of this permit.

  
 (PERMITTEE)

7/28/14  
 (DATE)

This permit becomes effective when the Federal official, designated to act for the Secretary of the Army, has signed below.

*for*  
  
 (DISTRICT ENGINEER)  
 Leon F. Parrott  
 Colonel, Corps of Engineers  
 District Engineer

August 6, 2014  
 (DATE)

When the structures or work authorized by this permit are still in existence at the time the property is transferred, the terms and conditions of this permit will continue to be binding on the new owner(s) of the property. To validate the transfer of this permit and the associated liabilities associated with compliance with its terms and conditions, have the transferee sign and date below

\_\_\_\_\_  
 (TRANSFEREE)

\_\_\_\_\_  
 (DATE)

SPECIAL CONDITIONS OF THE PERMIT ISSUED TO  
THE OHIO DEPARTMENT OF TRANSPORTATION  
Blanchard River - LRH-2013-00042-MAU  
HAN-75-14.39, PID 87005  
Page 1 (2)

1. The work will be conducted in accordance with the attached plans labeled 2013-00042-MAU, HAN-75-14.39, PID 87005, Sheets 1-16.
2. All conditions attached to or contained within the Ohio Environmental Protection Agency Water Quality Certification dated June 16, 2014 are hereby incorporated by reference as being special conditions of this permit.
3. To compensate for the permanent discharge of fill material into 4.47 acres of wetland, you will purchase 5.5 credits from the White Star III Mitigation Bank and 1.2 credits from the White Star Park Mitigation Bank in Sandusky County, Ohio. You will provide this office with documentation of the purchase of credits prior to any discharges of fill into waters of the U.S.
4. To compensate for the permanent discharge of fill material into 2,086 feet of stream, you will deduct 2,248 linear feet of stream mitigation credit from the St. John's Dam Pooled Mitigation Area in Seneca County, Ohio. You will provide this office with an updated balance sheet prior to any discharges of fill into waters of the U.S.
5. No in-water work will occur from April 15 to June 30 in order to reduce impacts to native aquatic species and their habitat.
6. Suitable habitat for the Indiana and northern long-eared bats exists within the project area. You will preserve trees and associated habitats wherever possible. If suitable habitat cannot be saved during construction activities, the trees must not be cut from April 1 through September 30.
7. Appropriate site specific Best Management Practices (BMPs) for sediment and erosion control will be fully implemented prior to any grading or filling operations and installation of proposed structures in and adjacent to waters of the U.S. The BMPs will remain in place during the construction activities and will be maintained until construction is completed and the area is stabilized. The BMPs include, but are not limited to, the utilization of silt fences, check dams, mulching, and seeding.
8. All exposed soil and other fill must be permanently stabilized at the earliest practicable date. Upon completion of construction activities, all exposed soils will be seeded and/or revegetated with native species, where practicable.
9. You are responsible for obtaining any required floodplain permits for this proposal.



**SPECIAL CONDITIONS OF THE PERMIT ISSUED TO  
THE OHIO DEPARTMENT OF TRANSPORTATION  
Blanchard River - LRH-2013-00042-MAU  
HAN-75-14.39, PID 87005  
Page 2 (2)**

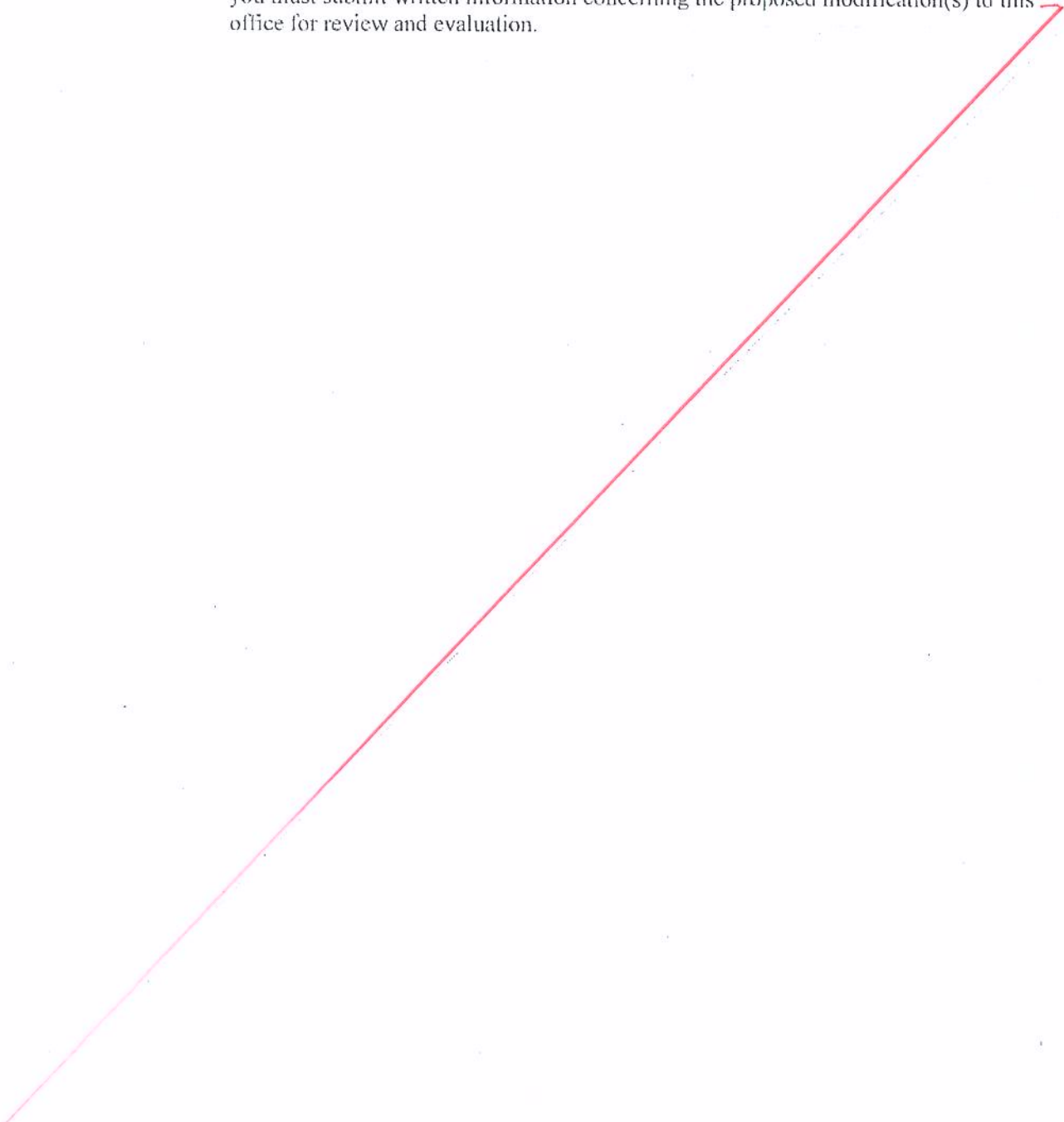
10. You are solely responsible for ensuring that all activities are performed in compliance with all permit conditions.
  11. If any changes in the location and/or plans, or impacts of the project become necessary, you must submit written information concerning the proposed modification(s) to this office for review and evaluation.
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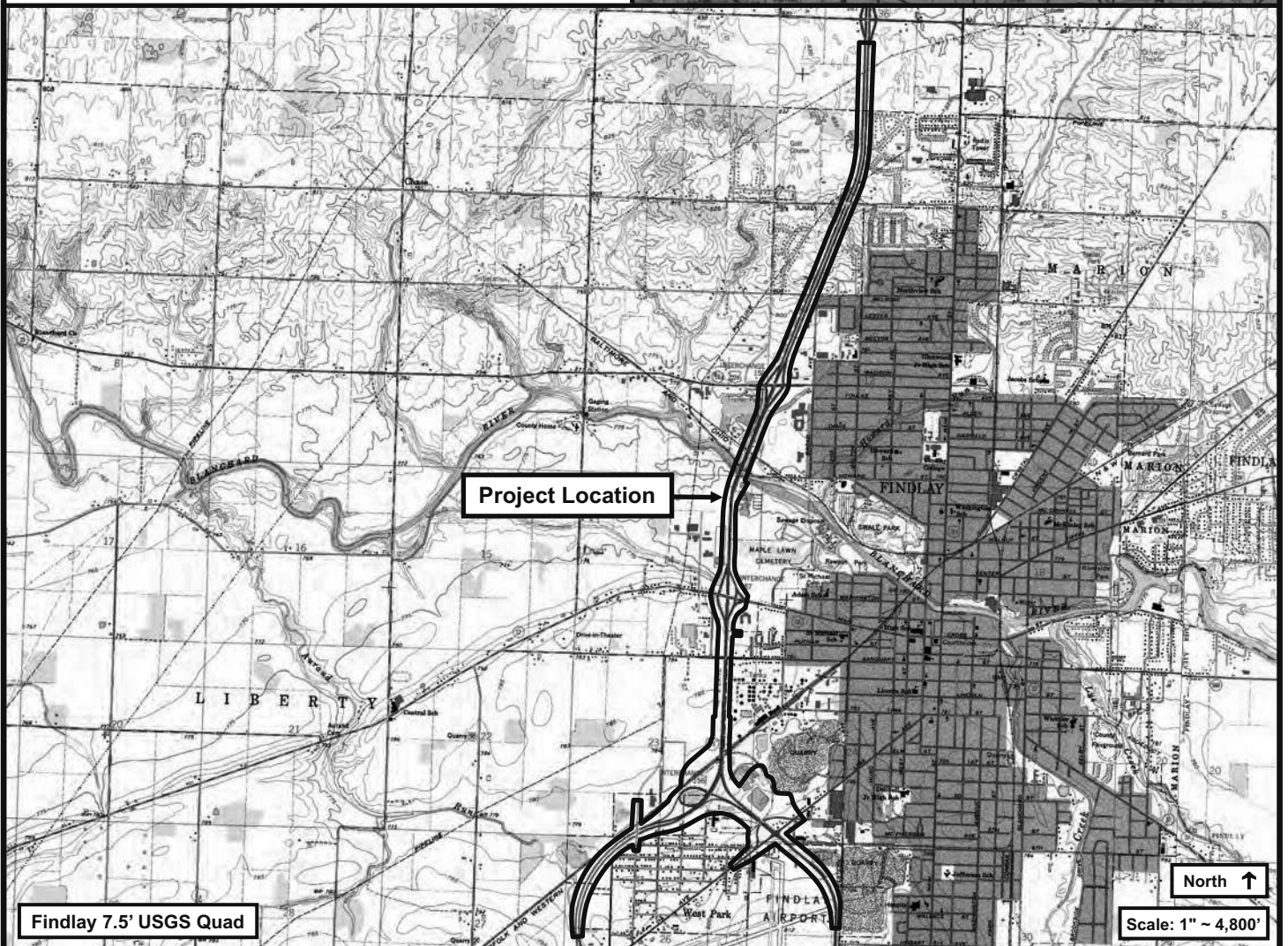
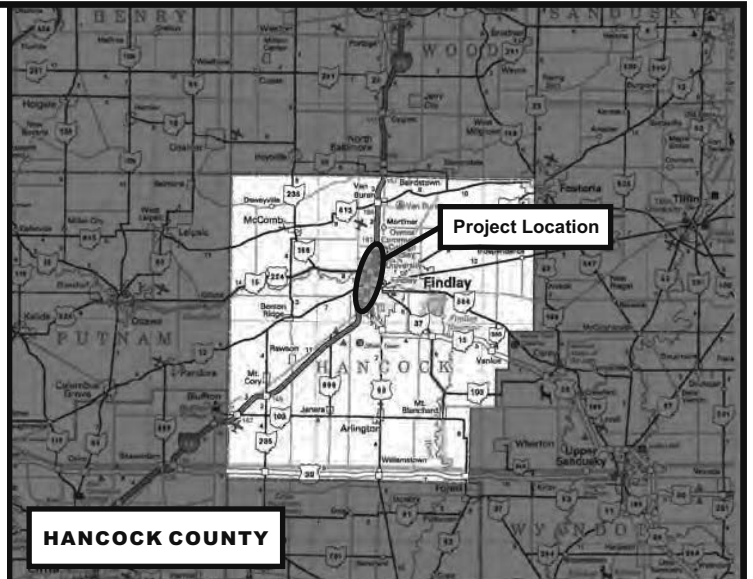
Table 1 - Discharges of Fill Material into Streams and Ditches

Resource ID / Sheet # of Attachment	Run	Description of Fill / Activities below OHWM	Total Length (Stream) / Area (Ditches) Within Project Area (LF / AC)	Permanent Fill Below OHWM										Temporary Fill Below OHWM		Total Fill								
				Proposed Concrete (Includes Culverts, Piers, Walls, Abutments, etc.)	Proposed RCP	Proposed Earth or Embankment Fill	Proposed Granular Fill	Proposed Other Fill (Steel, Aluminum, Plastic)	Area *	Volume	Length *	Area *	Volume	Length *	Area *	Volume								
				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)						
Stream 1 - Location 1a - Sheet 1 and 2	Intermittent	Concrete - Earthen Fill / Granular Fill / Plastic Pipe / Temporary Access	NA	12	0.004	21	0	0	0	0	0	0	0	0	0	75	0.027	95	531	0.186	654			
Stream 1 - Location 1b - Sheet 3	Intermittent	Concrete - Rock Channel Protection / Earthen Fill / Granular Fill / Temporary Access	NA	87	0.017	82	45	0.011	12.9	105	0.014	36	37	0.017	4.0	50	0.014	43	178	0.048	317			
Stream 1 Total:			NA	119	0.021	103	45	0.021	37	609	0.139	86	119	0.021	171	125	0.031	78	707	0.234	971			
Branched River - Sheets 4 and 5	Perennial	Concrete / Granular Fill / Steel Encasement / Steel W/ Jute Pipe / Temporary Access	437	57	0.009	186	0	0	0	0	0	74	0.014	202	18	0.005	7	317	0.895	8,226	327	8,724		
Stream 3a - Sheet 3	Perennial	Concrete - Earthen Fill / Plastic Temporary Access	1,706	3	0.004	1	0	0	0	135	0.045	140	0	0	0	1	0.001	1	110	0.025	17	245	0.078	159
Stream 5 - Sheet 7	Intermittent	Concrete - Earthen Fill / Plastic Temporary Access	457	61	0.005	6	0	0	0	275	0.012	42	0	0	0	1	0.001	1	52	0.006	8	287	0.037	57
Stream 6 - Sheet 8	Intermittent	Concrete / Rock Channel Protection / Earthen Fill / Steel / Temporary Access	1,143	5	0.001	2	16	0.008	27	11	0.009	1	2	0	0	11	0.001	7	462	0.015	18	478	0.025	47
Stream 7 - Sheet 9	Intermittent	Rock Channel Protection / Temporary Access	44	0	0	0	14	0.002	4	0	0	0	0	0	0	0	0	30	0.006	4	41	0.008	3	
Stream 7 Total:			\$124	265	0.034	298	75	0.021	63	1,030	0.265	766	253	0.025	373	162	0.009	11	1,116	0.298	8,452	2,095	1,277	9,966
Ditch 1 - Sheet 10 and 11	Intermittent	Concrete / Rock Channel Protection / Earthen Fill / Granular Fill / Steel / Temporary Access	973	NA	0.009	51	NA	0.027	87	NA	0.320	049	NA	0.025	42	NA	0.001	4	NA	0.082	177	NA	0.422	149
Ditch 2 - Sheet 12	Intermittent	Concrete / Rock Channel Protection / Earthen Fill / Temporary Access	0.122	NA	0.001	2	NA	0.003	6	NA	0.1180	114	NA	0	0	NA	0.001	0	NA	0.008	11	NA	0.122	153
Ditch 2 Total:			0.86	NA	0.010	53	NA	0.030	93	NA	0.445	1,163	NA	0.005	42	NA	0.001	4	NA	0.098	188	NA	0.544	1,543

Table 2 - Discharges of Fill Material into Wetlands

Resource ID	Description of Filling Activity	Total Area Within Project Area	Proposed Concrete (Includes Culverts, Piers, Walls, Abutments, etc.)		Proposed RCP		Proposed Earth or Embankment Fill		Proposed Other Fill (Steel, Aluminum, Plastic)		Total Fill		
			Area (AC)	Volume (CY)	Area (AC)	Volume (CY)	Area (AC)	Volume (CY)	Area (AC)	Volume (CY)	Area (AC)	Volume (CY)	
Wetland E - Sheet 13 and 14	Concrete / Rock Channel Protection / Earthen Fill / Plastic	2.90	1,291	3	0.901	1	2,895	467	0.003	5	2.90	4,678	
Wetland F - Sheet 15	Gravel / Earthen Fill / Concrete Pipe	1.57	6,015	24	0.001	2	1,454	2607	0	0	1.57	2,633	
Wetland Total:			4.47	0.02	25	0.002	3	4,35	178	0.003	5	4.47	7,311





### PROJECT LOCATION MAP

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

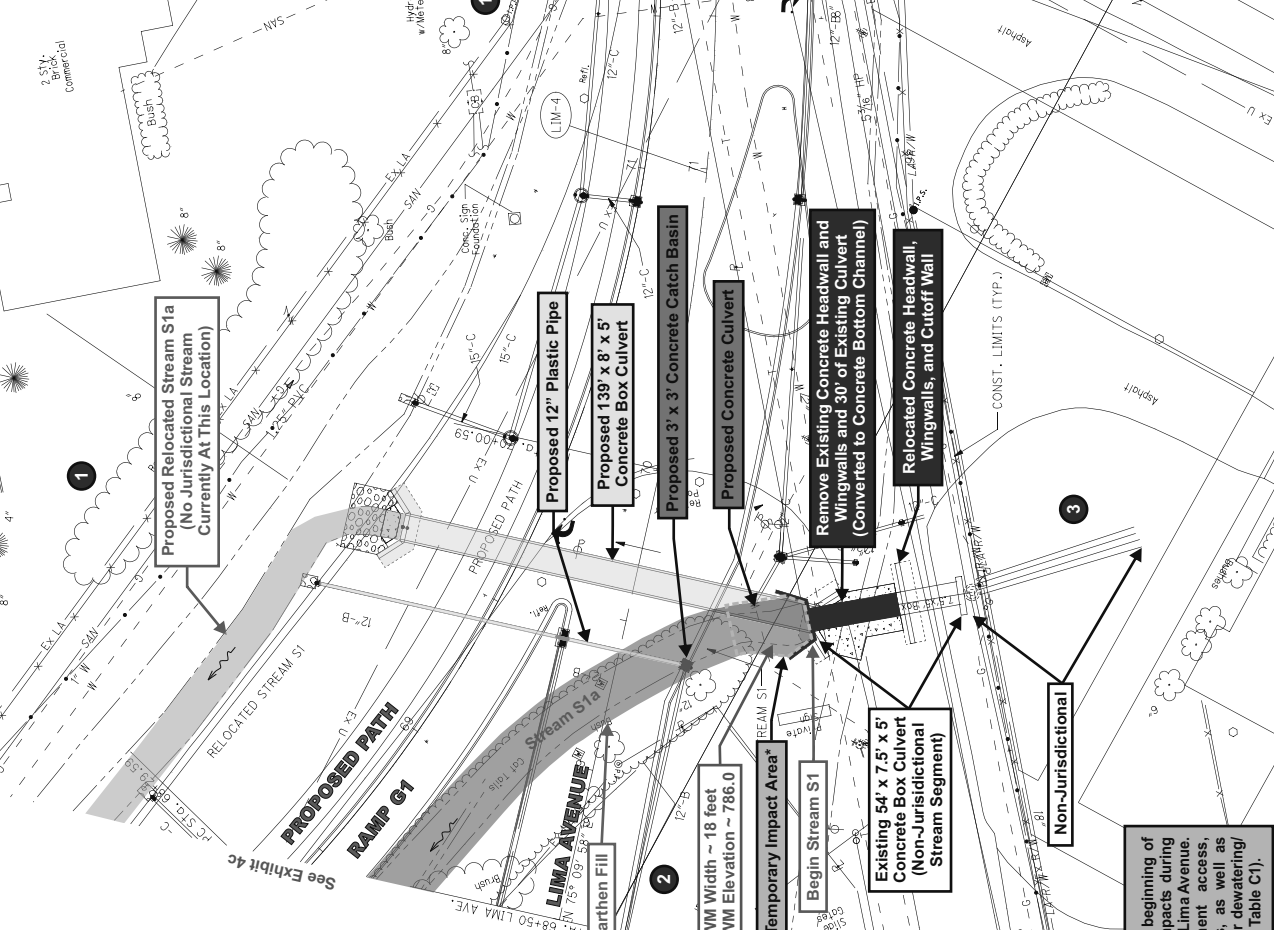
Sheet 1 of 16

**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).

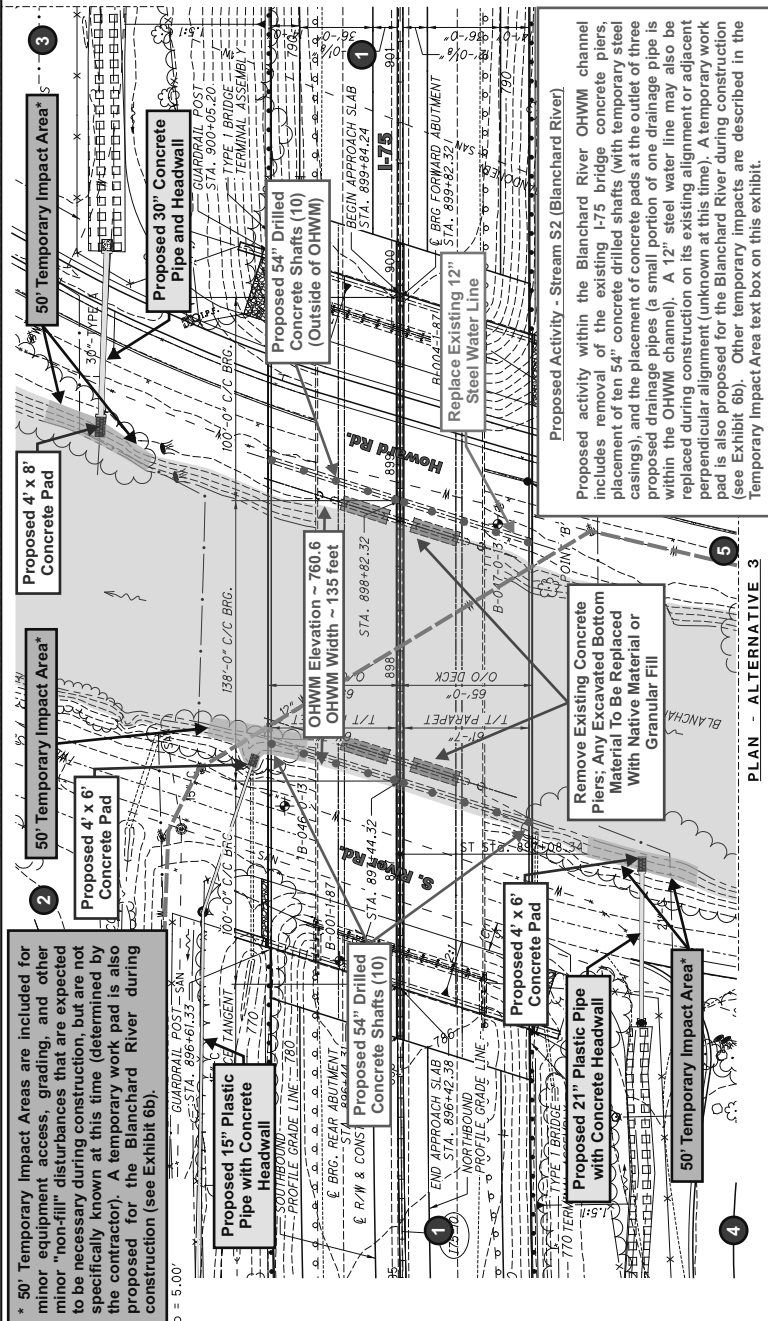








\* 50' Temporary Impact Areas are included for minor equipment access, grading, and other minor "non-fill" disturbances that are expected to be necessary during construction, but are not specifically known at this time (determined by the contractor). A temporary work pad is also proposed for the Blanchard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

**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 =	0.50
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(100) = 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 CURVE AND TANGENT  
 SUPERELEVATION: VARIES FT/FT  
 COORDINATES: LATITUDE 41°03'07" N  
 LONGITUDE 83°40'19" W

**DESIGNED**

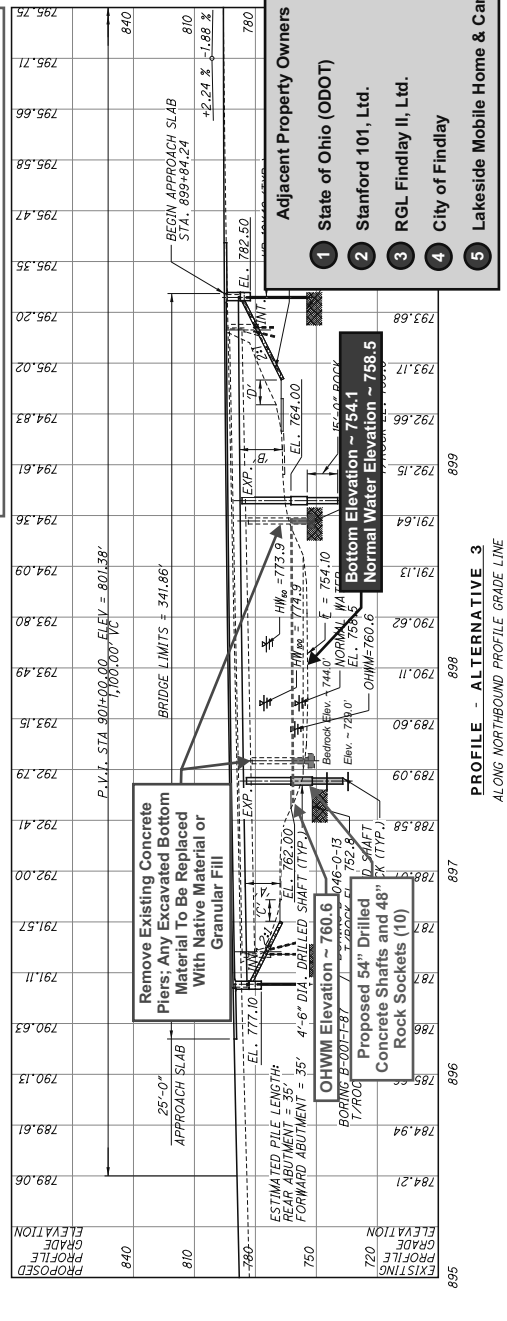
DESIGNED	SAP	LEL	DATE
DESIGNED	CHKD	LEL	DATE
DESIGNED	APP	LEL	DATE
DESIGNED	DRWN	LEL	DATE
DESIGNED	REVISED	LEL	DATE

STA. 896+84.28  
 STA. 899+84.24  
 HANCOCK COUNTY

**SITE PLAN**

BRIDGE NO. HAN-075-1697  
 1-75 OVER BLANCHARD RIVER

HAN-75-14.39  
 PID NO. 87005



**Adjacent Property Owners**

- State of Ohio (ODOT)
- Stanford 101, Ltd.
- RGL Findlay II, Ltd.
- City of Findlay
- Lakeside Mobile Home & Camping

**PLAN - ALTERNATIVE 3**

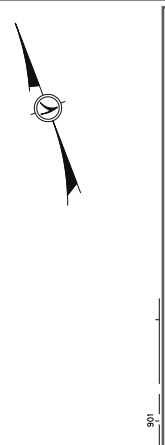
**PROFILE - ALTERNATIVE 3**  
 ALONG NORTHBOUND PROFILE GRADE LINE





DESIGNED SAP	REVIEWED EBS	DATE	BRIDGE NO. HAN-075-1697	PID No. 87005
CHECKED P.L.	REVISIONS	FILE NUMBER	1-75 OVER BLANCHARD RIVER	HAN-75-14.39
PARSONS BRINCKERHOFF			TEMPORARY ACCESS FILL	

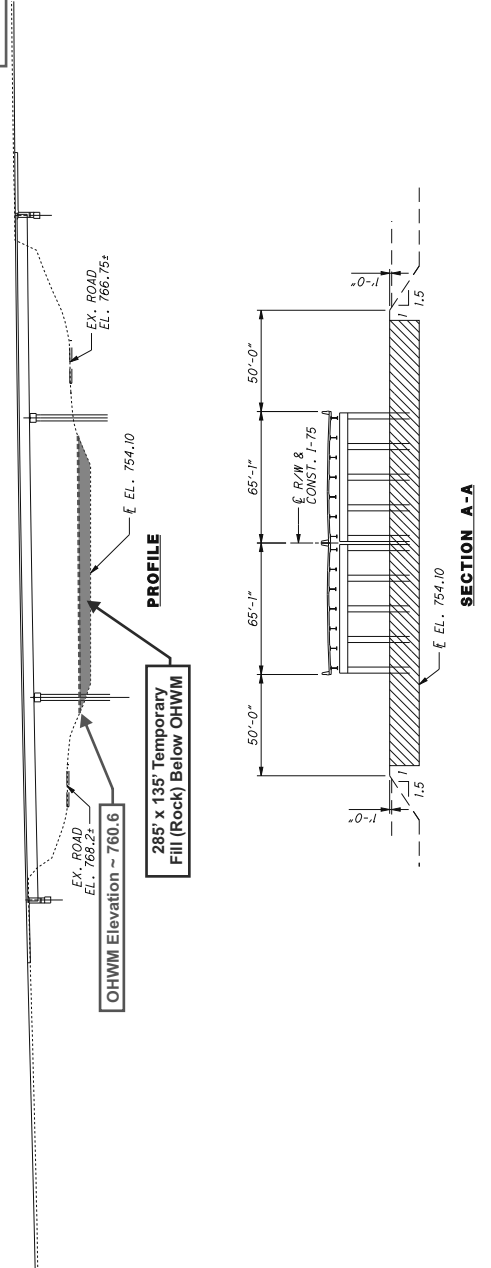
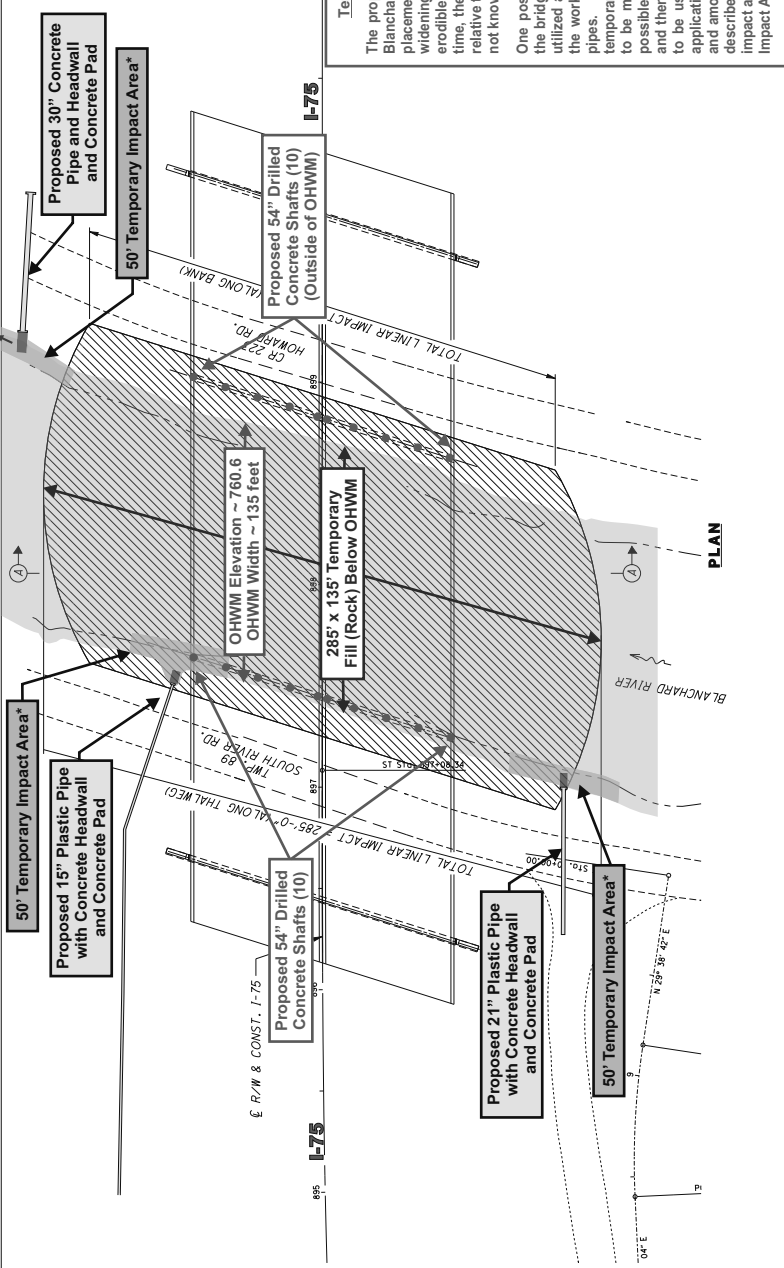
\* 50' Temporary Impact Areas are included for minor equipment access, grading, and other minor "non-fill" disturbances that are expected to be necessary during construction, but are not specifically known at this time (determined by the contractor). A temporary work pad is proposed for the Blanchard 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 FLOOD FLOW RATE. THE FILL ELEVATION SHALL NOT EXCEED THE OHWM. Q FOR 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

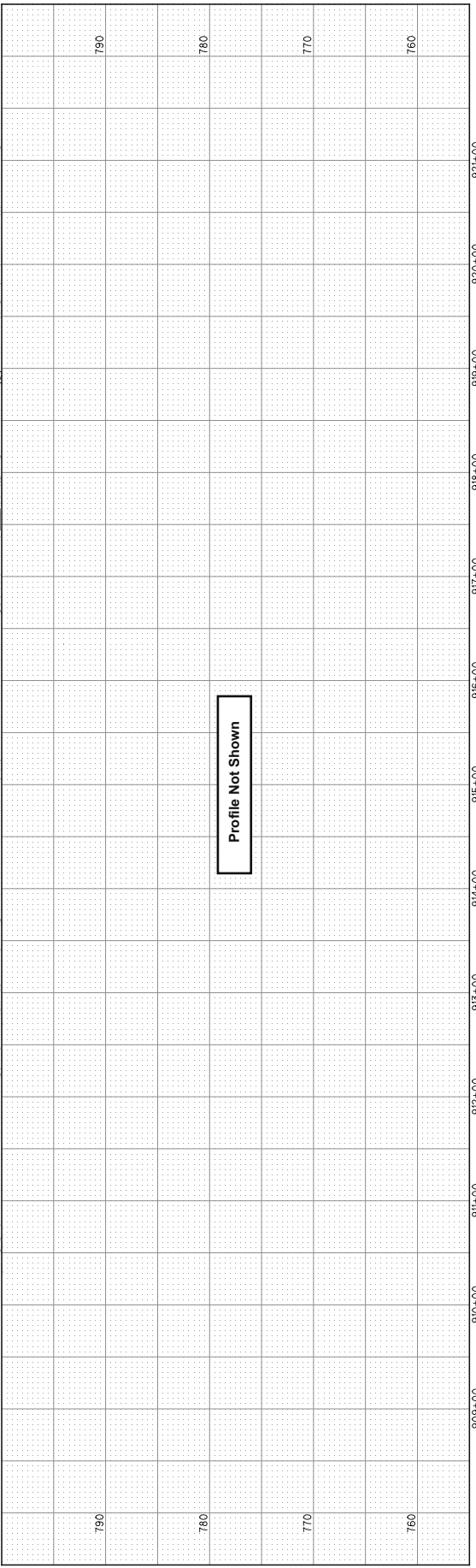
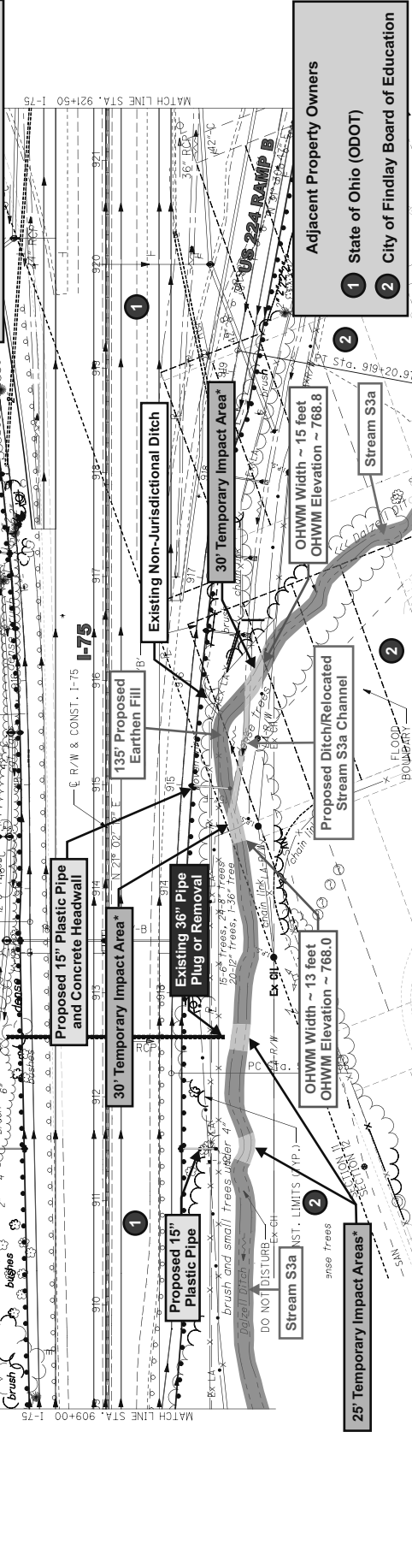
120  
842

\* 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.

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

Total Impact Length:	245 feet
Total New Impact Length:	245 feet
Total Impact Area:	0.078 acre
Total Fill Volume:	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



**Adjacent Property Owners**

- 1 State of Ohio (ODOT)
- 2 City of Findlay Board of Education



**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**

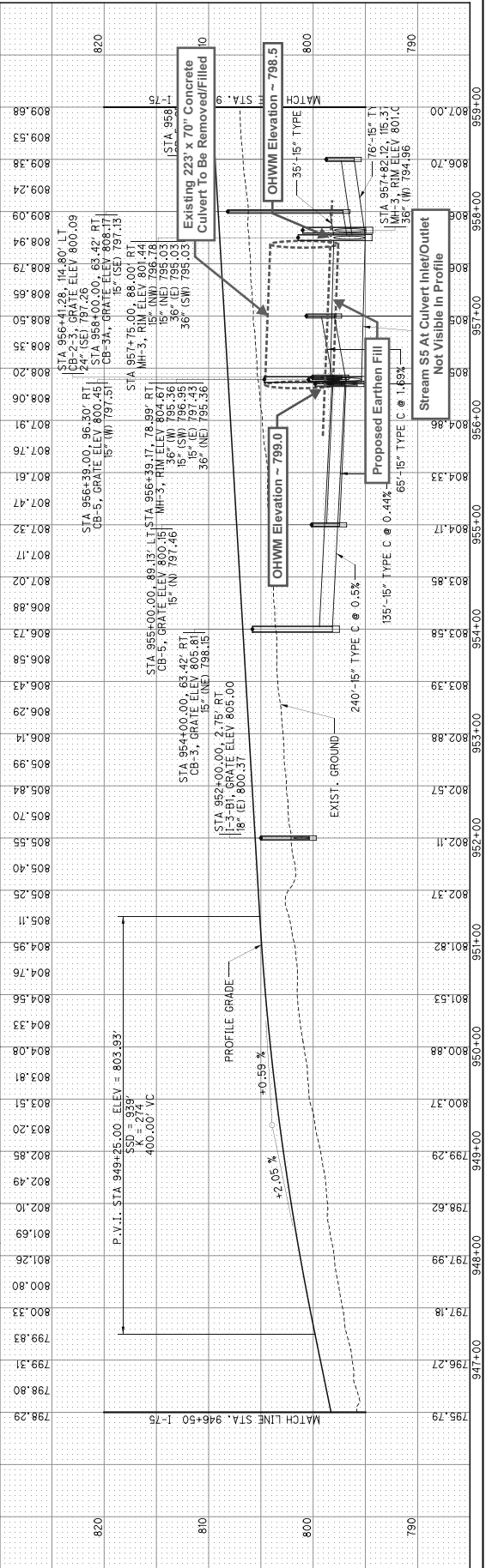
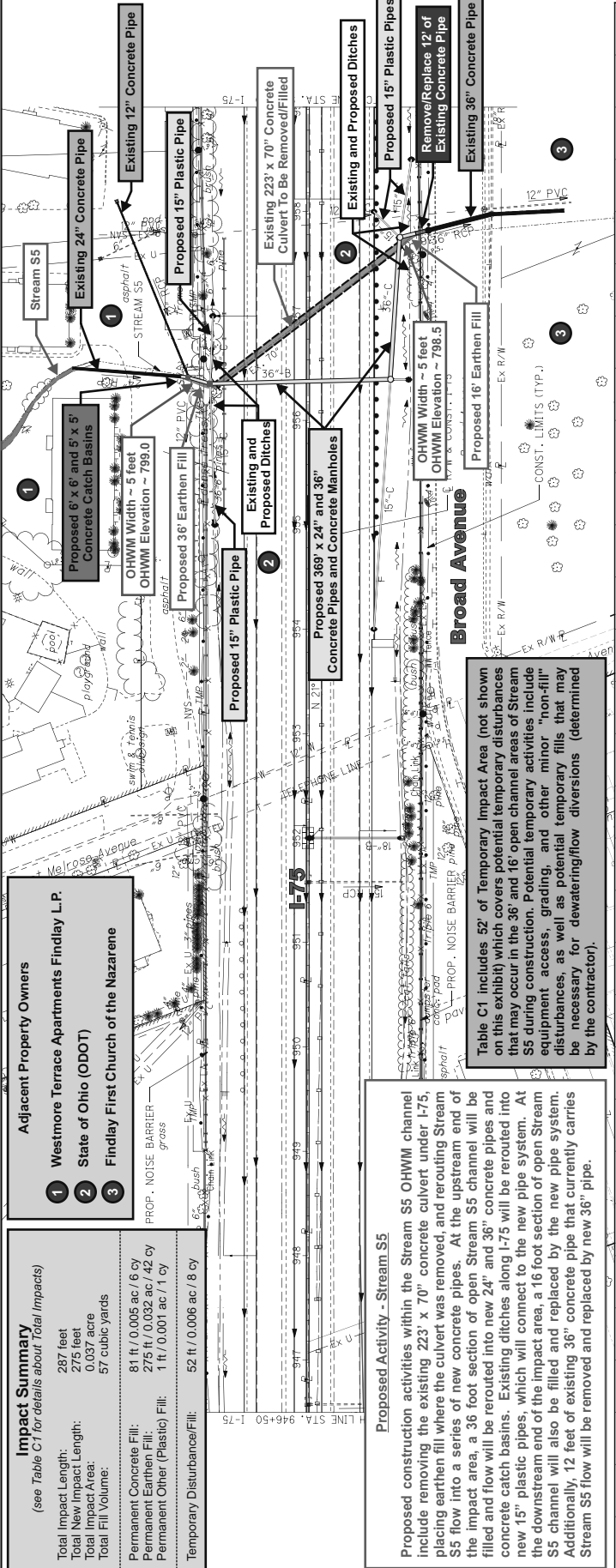


HORIZONTAL SCALE IN FEET  
 CHECKED  
 CALCULATED

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

HAN-75-14.39

125  
 842



- Adjacent Property Owners**
- Westmore Terrace Apartments Findlay L.P.
  - State of Ohio (ODOT)
  - 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).**



**Proposed Activity - Stream S5**

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

**Hancock County, Ohio**

**Sheet 8 of 16**





**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

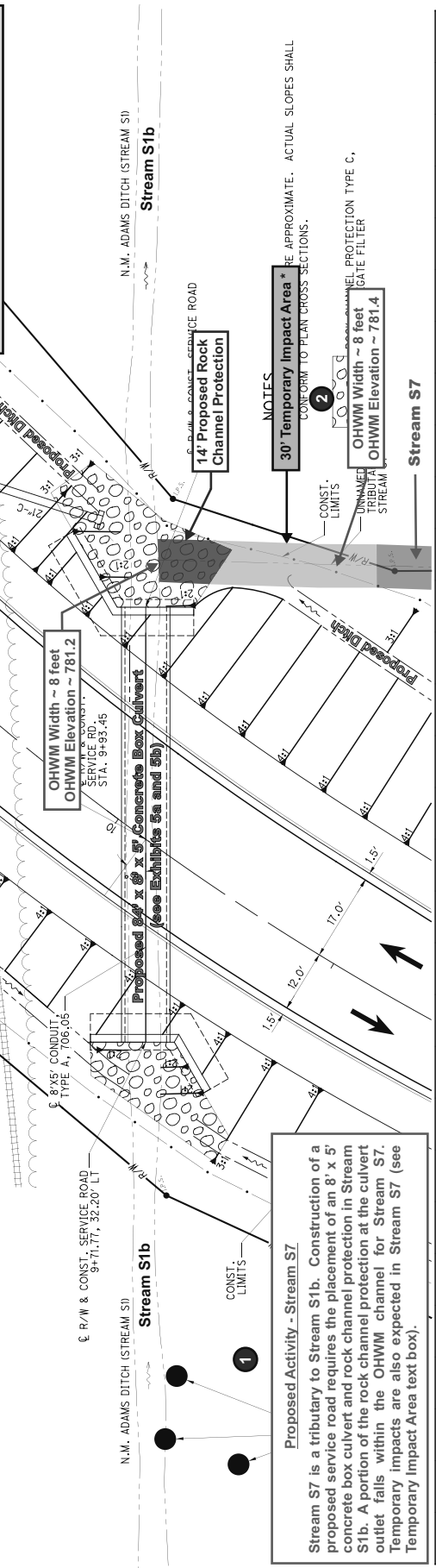
Proposed 8' x 5' Concrete Box Culvert  
 (see Exhibits 5a and 5b)

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

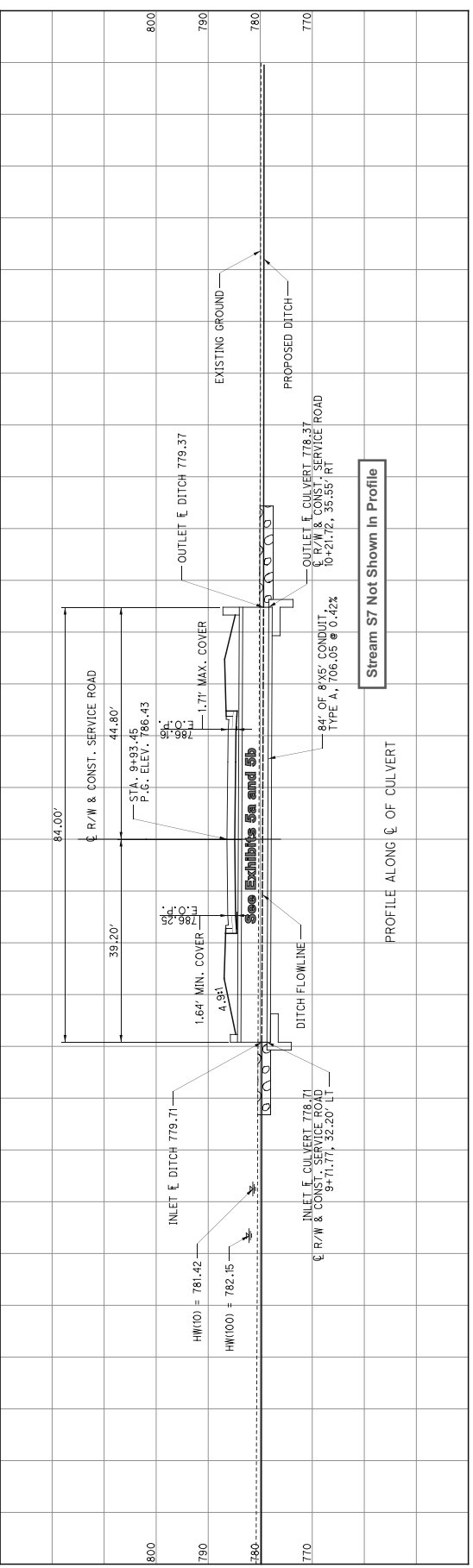
Stream S7

**Adjacent Property Owners**

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



**NOTES:**  
 1. 30' Temporary Impact Area \* BE APPROXIMATE. ACTUAL SLOPES SHALL CONFORM TO PLAN CROSS SECTIONS.  
 2. OHWM Width ~ 8 feet  
 OHWM Elevation ~ 781.4  
 UNPAVED TRIBUTARY STREAM  
 GATE FILTER  
 PROTECTION TYPE C,  
 CONST. LIMITS





HORIZONTAL  
SCALE IN FEET

PLAN AND PROFILE - U.S. 68 RAMP 'A'  
STA. 777+50 TO STA. 790+00

HAN-75-14.39

310  
842

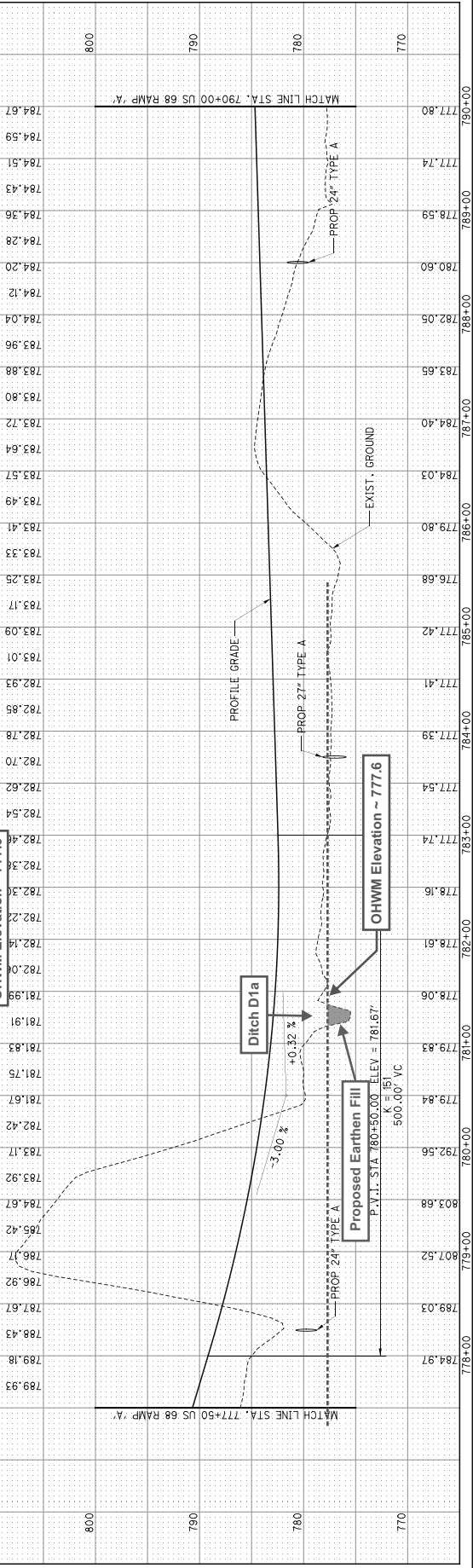
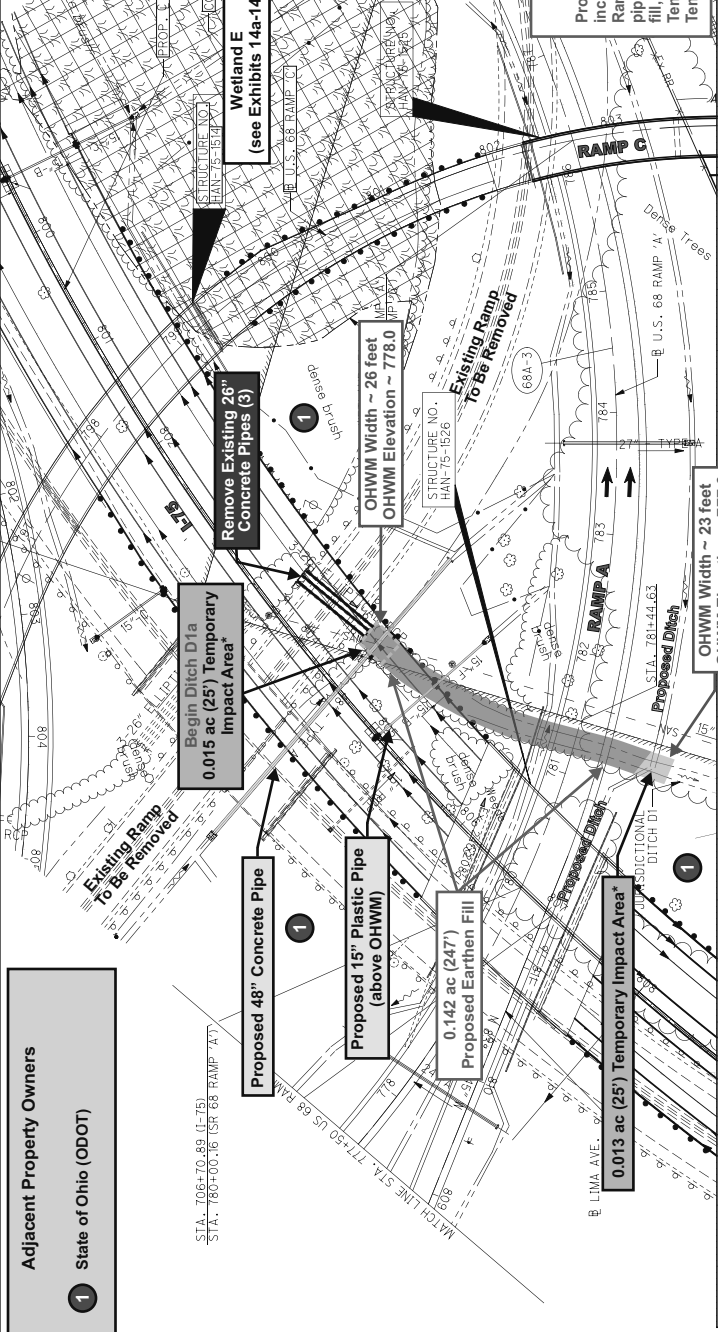
\* A 25' Temporary Impact Area is included at the beginning of Ditch D1a due to the potential for temporary impacts during removal of the existing 26" pipes. A 25' Temporary Impact Area is also included at the downstream end of the impact area where proposed ramp ditches will tie in to existing Ditch D1a. 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 C2).

$Y = 7.56'$   
 $K = 99.96'$   
 $P = 1.88'$   
 $\Delta c = 85^\circ 55' 42" (LT)$   
 $LC = 1,150.93'$   
 $LS = 1,152.93'$   
 $ES = 477.47'$

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

Total Impact Length:	NA
Total Impact Area:	0.155 acre
Total New Impact Area:	0.155 acre
Total Fill Volume:	507 cubic yards
Permanent Concrete Fill:	0.002 ac / 7 cy
Permanent Earthen Fill:	0.140 ac / 452 cy
Temporary Disturbance/Fill:	0.028 ac / 48 cy

**Proposed Activity - Jurisdictional Ditch D1a**  
Proposed construction activities in the Ditch D1a OHWM channel include the placement of earthen fill for the construction of proposed Ramp A and the widening of I-75. A proposed 48" concrete drainage pipe will also cross Ditch D1a. At the downstream end of the proposed fill, Ditch D1a will pick up flow from proposed ditches along Ramp A. Temporary impacts to Ditch D1a are also expected in this area (see Temporary Impact Area text box).



**Proposed Activity - Jurisdictional Ditch D1a**

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

**Hancock County, Ohio**

**Sheet 11 of 16**





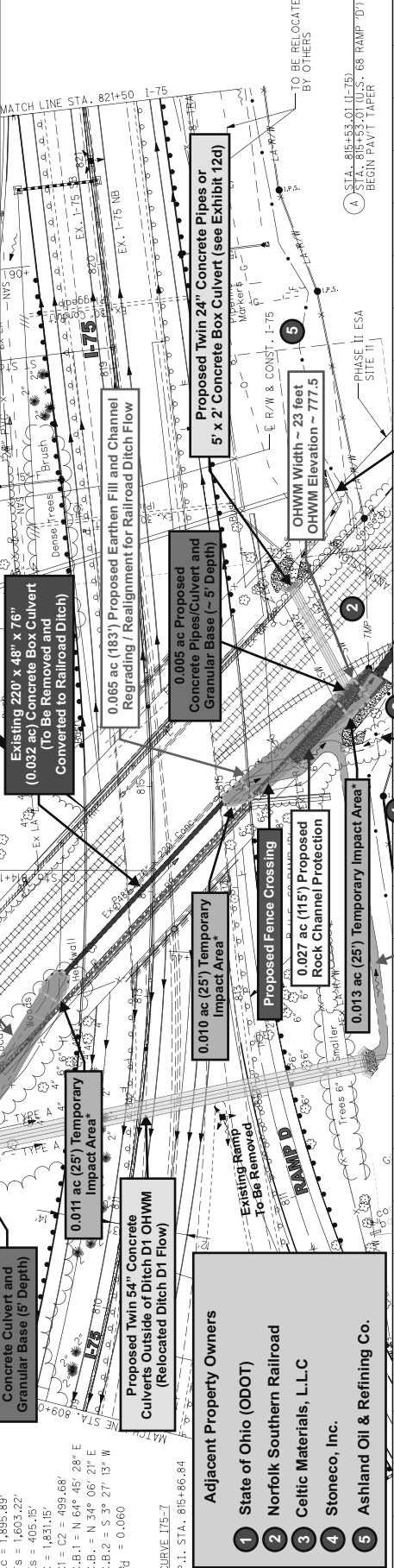
HORIZONTAL SCALE IN FEET

PLAN AND PROFILE - I-75  
STA. 809+00 TO STA. 821+50

HAN-75-14.39

109  
842

**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	CROSS REFERENCES	
				SHEET NO.	DESCRIPTION
820					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. 815+86.84  
C.I. STA. 815+86.84  
C.L. STA. 815+86.84  
C.B.1 = N 64° 45' 28" E  
C.B.2 = S 34° 06' 21" E  
C.B.2 = S 3° 27' 13" W  
e<sub>s</sub> = 0.060

**Adjacent Property Owners**

- 1 State of Ohio (ODOT)
- 2 Norfolk Southern Railroad
- 3 Celtic Materials, LLC
- 4 Stoneco, Inc.
- 5 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



**Proposed Activity - Jurisdictional Ditch D1b**

**ODOT - HAN-75-14.39, PID: 87005, LRH-2013-00042-MAU - Blanchard River  
Hancock County, Ohio  
Sheet 12 of 16**

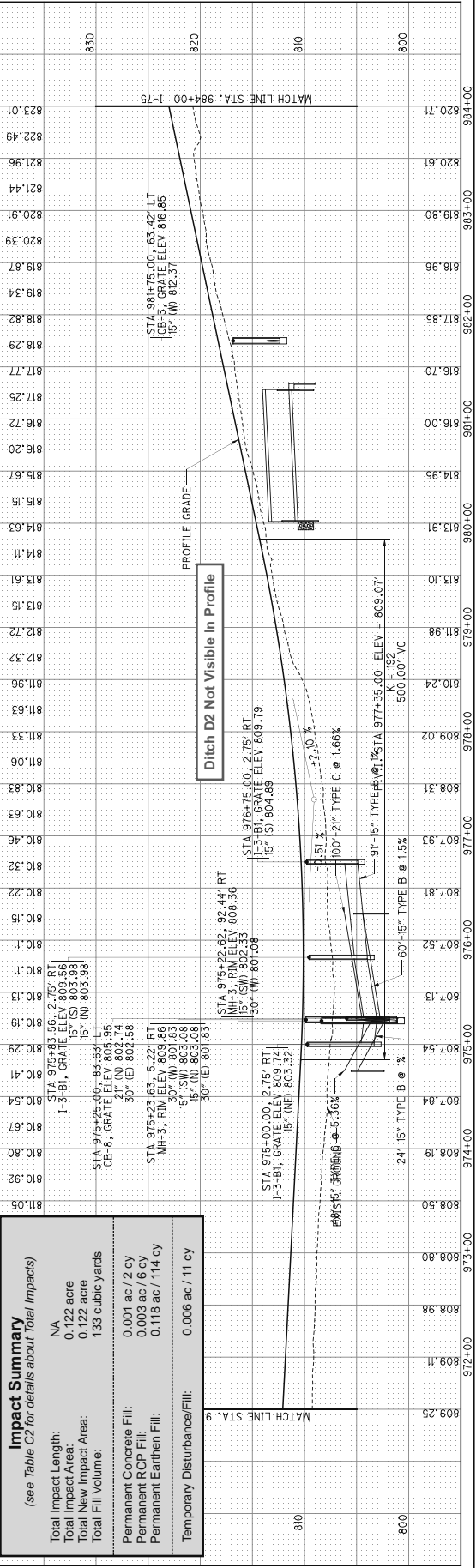
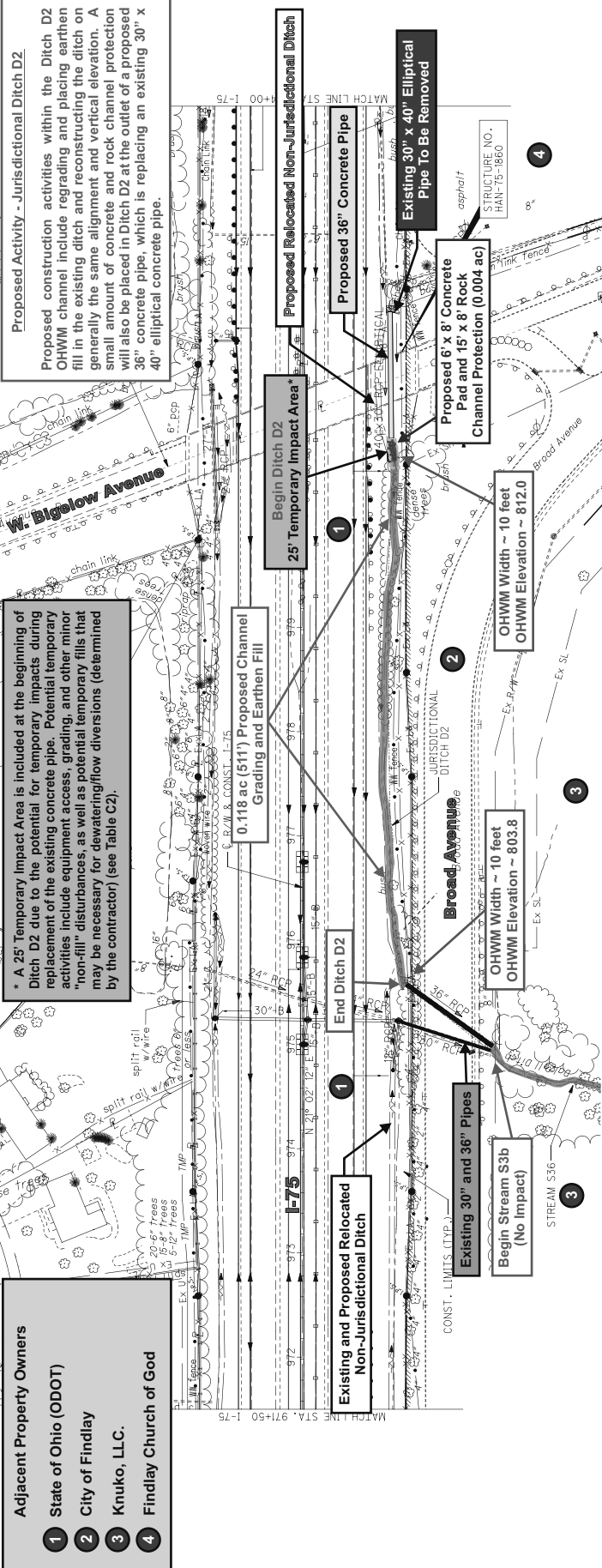


CHECKED: \_\_\_\_\_  
SCALE IN FEET

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

HAN-75-14.39

127  
842



**Adjacent Property Owners**

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

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).

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.

**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

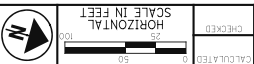


**Proposed Activity - Jurisdictional Ditch D2**

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

**Hancock County, Ohio**

**Sheet 13 of 16**



PLAN AND PROFILE - U.S. 68 RAMP 'A'  
 STA. 777+50 TO STA. 790+00

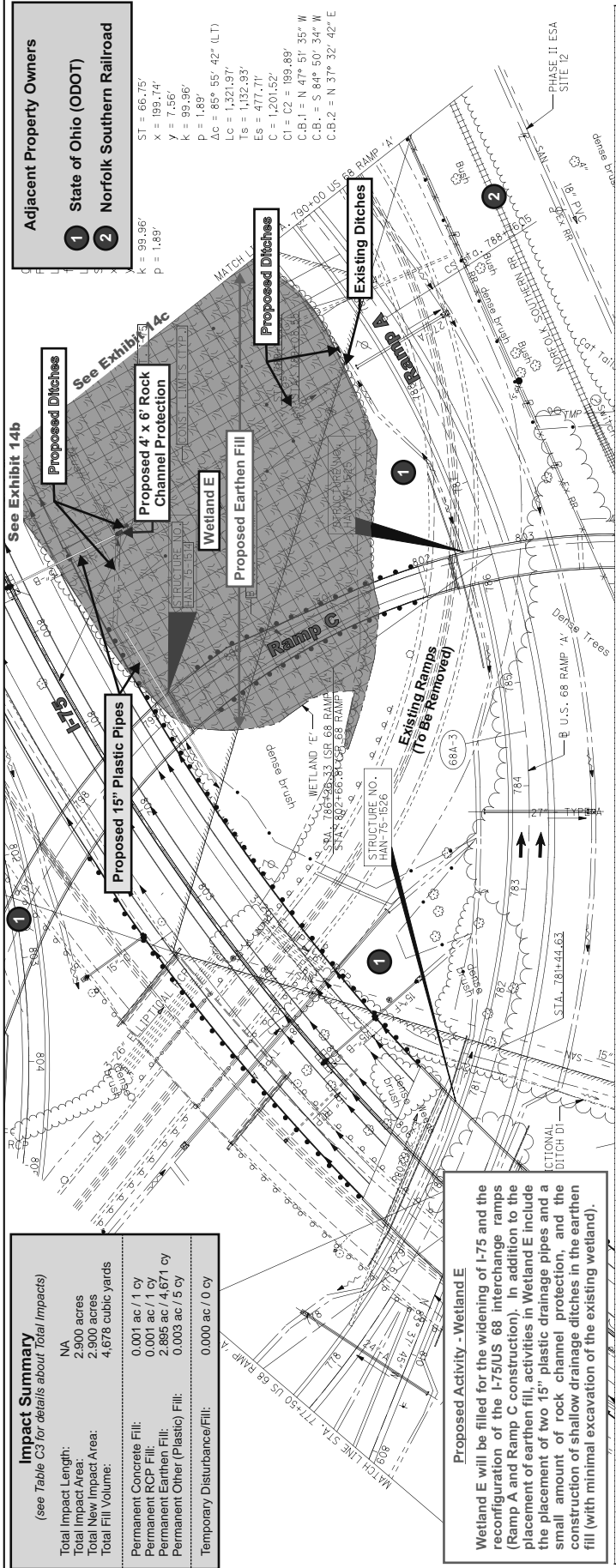
HAN-75-14.39

310  
842

**Adjacent Property Owners**

- State of Ohio (ODOT)
- Norfolk Southern Railroad

$K = 99.96'$   
 $P = 1.89'$   
 $ST = 66.75'$   
 $X = 109.74'$   
 $Y = 7.56'$   
 $K = 99.96'$   
 $P = 1.89'$   
 $\Delta C = 85^\circ 55' 42''$  (L.T.)  
 $Lc = 1,321.97'$   
 $Ts = 1,132.93'$   
 $Es = 477.71'$   
 $C = 1,201.52'$   
 $CI = C2 = 199.89'$   
 $C.B.1 = N 47^\circ 51' 35'' W$   
 $C.B.2 = S 84^\circ 50' 34'' W$   
 $C.B.2 = N 37^\circ 32' 42'' E$

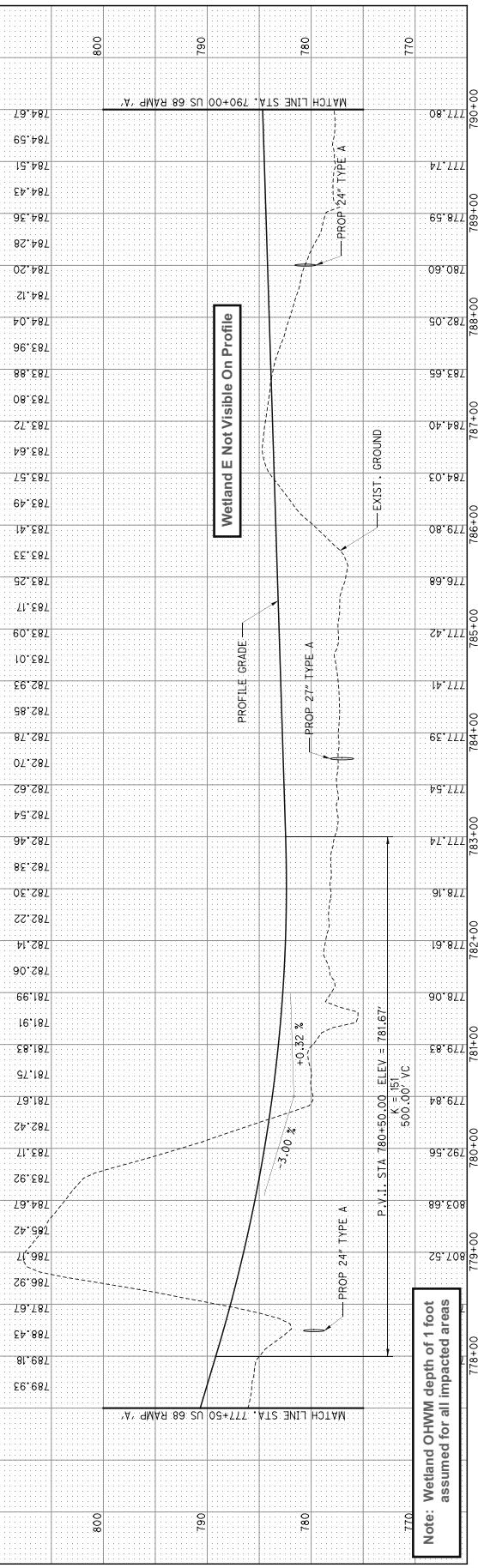


**Impact Summary**  
 (see Table C3 for details about Total Impacts)

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).



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



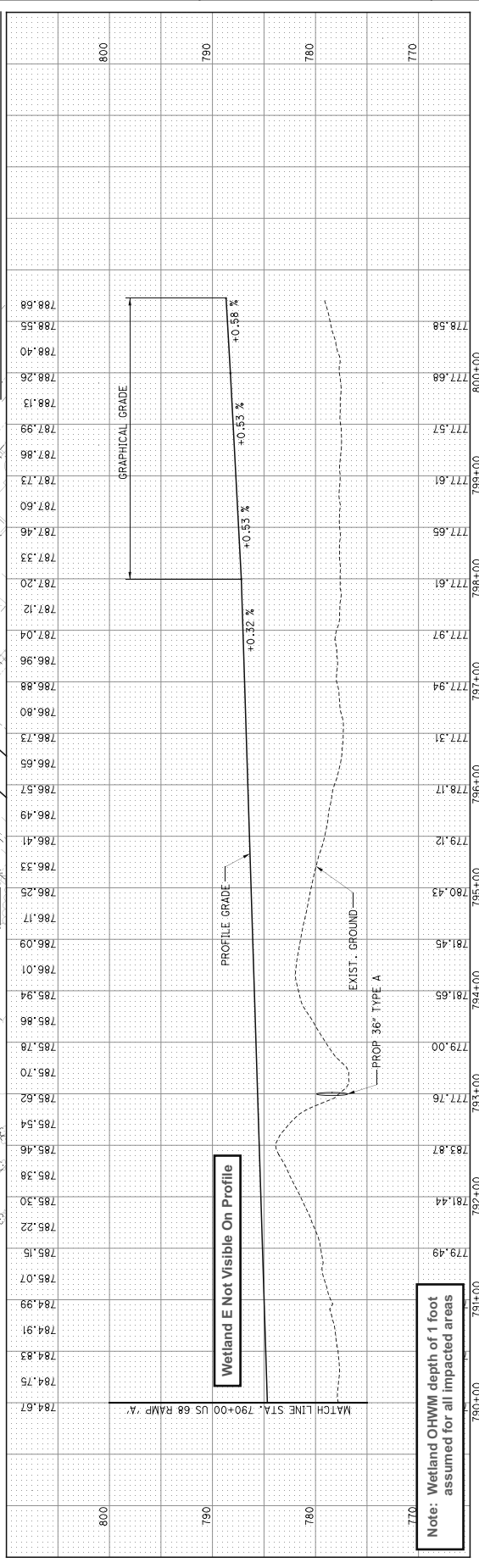
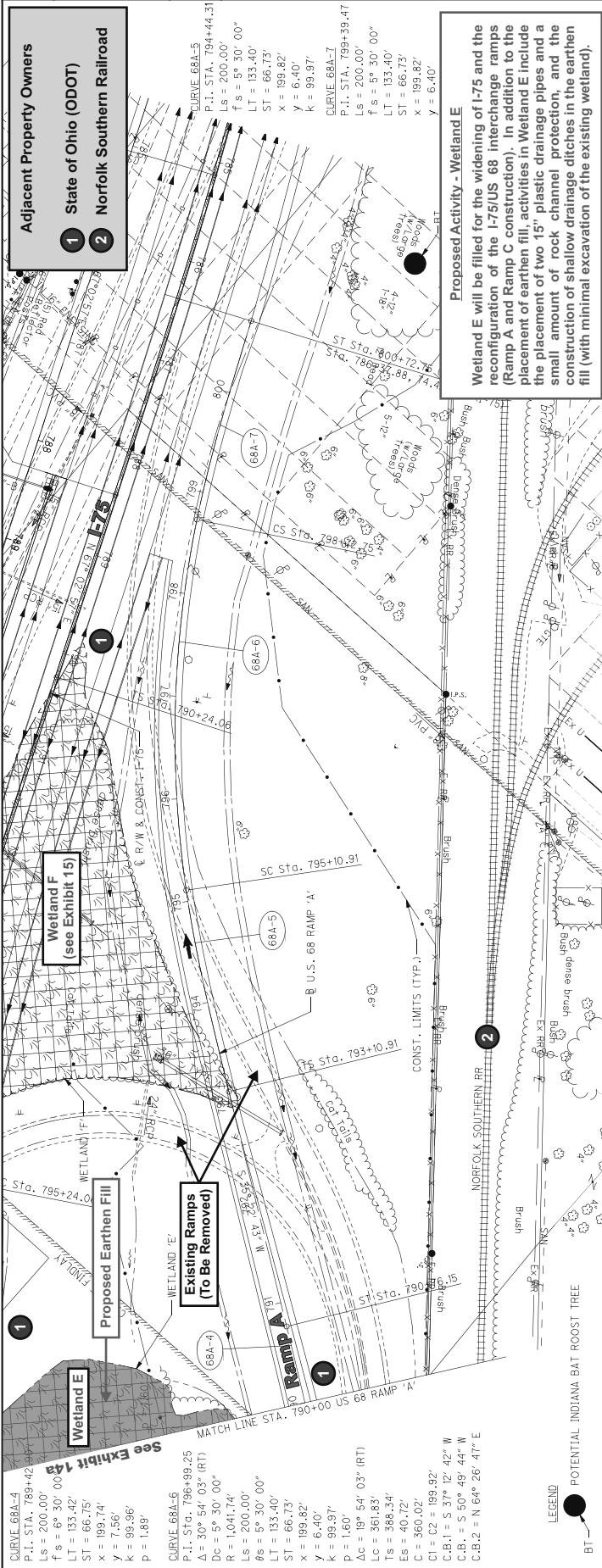
**Proposed Activity - Wetland E**

**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**





**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