

October 3, 2008

Re: Project 080597 Addendum No. 1 PID No. 13486 LAK-2-3.32 Major Widening Letting: December 5, 2008

Notice to all Bidders and Suppliers to please be advised of the attached Proposal Addendum.

The quantity sheets that show revised items will no longer be attached to the addenda. All Reference Item revisions are reflected in the EBS files (Expedite) for this project.

For internet access to information referenced in this addendum, please see the ODOT web-site at:

ftp://ftp.dot.state.oh.us/pub/Contracts/Attach/LAK-13486/

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Respectfully,

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James G. Beasley Director Department of Transportation

#### **Revised Bid Items:**

Ref.	Item	Quantity	Unit	Description
No.	Number			
155	442E10001	16659	CY	Asphalt Concrete Surface Course, 12.5 MM, Type A (446), As
				Per Plan
156	442E10100	20097	CY	Asphalt Concrete Intermediate Course, 19 MM, Type A (446)
160	451E14000	24658	SY	9" Reinforced Concrete Pavement
585	202E35200	110	FT	Pipe Removed, Over 24"
597	603E26200	110	FT	72" Conduit, Type B

#### **Deleted Bid Items:**

Ref. No.	Item Number	Quantity	Unit	Description
589	203E10000	83	CY	Excavation
590	203E20000	4553	CY	Embankment
591	301E46001	75	CY	Asphalt Concrete Base, PG64-22, As Per Plan
592	304E20000	82	CY	Aggregate Base
593	448E46050	21	CY	Asphalt Concrete Intermediate Course, Type 2, PG64-22
594	448E47020	15	CY	Asphalt Concrete Surface Course, Type 1, PG64-22

#### **Added Bid Items:**

Ref. No.	Item Number	Quantity	Unit	Description
1000	507E98010	12	Each	Piling Misc.: Pile Splice
1001	507E98010	12	Each	Piling Misc.: Pile Splice
1002	507E98010	19	Each	Piling Misc.: Pile Splice
1003	507E98010	19	Each	Piling Misc.: Pile Splice
1004	507E98010	5	Each	Piling Misc.: Pile Splice
1005	507E98010	5	Each	Piling Misc.: Pile Splice
1006	507E98010	25	Each	Piling Misc.: Pile Splice

#### **Revise the plan sheet as follows:**

Delete the following plan sheets 55, 184, 1316, 1317, 1319, 1320, 1323 and 1326.

Add the following plan sheets 55, 1316, 1317, 1320, 1323, 1319 and 1326.

#### Add the following General Note:

The contractor shall be assessed disincentives, as designated in the lane value contract table below, for each unit of time the described critical ramp is restricted from full use by the traveling public within the time period. The disincentives will be assessed for all restrictions of the critical work.

Critical work is shown in the lane value contract table.

Critical work is defined as having the designated sections open to unrestricted traffic as shown in the table, or the entire project if not otherwise listed.

Unrestricted traffic is defined as all traffic lanes being available for use with temporary safety features in place.

Description or	Completion	Time Unit	Disincentive
Location of	Date		
Critical Work			
All work needed to re-open SR-91 Ramp A to traffic	Day 30	Day	\$5000/Day
All work needed to re-open SR-91 Ramp B to traffic	Day 30	Day	\$7000/Day
All work needed to re-open SR-640 Ramp A to traffic	Day 30	Day	\$5000/Day
All work needed to re-open SR-640 Ramp D to traffic	Day 30	Day	\$5000/Day
All work needed to re-open SR-6401 Ramp E to traffic	Day 30	Day	\$5000/Day
All work needed to re-open SR-640 Ramp H to traffic	Day 30	Day	\$5000/Day
All work needed to re-open Lost Nation Ramp A to traffic	Day 30	Day	\$6000/Day
All work needed to re-open Lost Nation Ramp B to traffic	Day 30	Day	\$7500/Day
All work needed to re-open Lost Nation Ramp E to traffic	Day 30	Day	\$500/Day
All work needed to re-open Lost Nation Ramp F to traffic	Day 30	Day	\$4500/Day
All work needed to re-open SR-306 Ramp I to traffic	Day 30	Day	\$11,500/Day
All work needed to re-open SR-306 Ramp K to traffic	Day 30	Day	\$9000/Day
All work needed to re-open SR-306 Ramp N to traffic	Day 30	Day	\$13,000/Day
All work needed to re-open SR-306 Ramp O to traffic	Day 30	Day	\$7500/Day

# All references to the Vine St. culvert (LAK-2-0395) in Phase B, Step 7 shall be disregarded. The following note shall apply.

Vine Street Culvert Phase A Step 1

The culvert lining of LAK-2-0395 shall be completed in Stage 1, Phase A. All work associated with this work must be done by June 1, 2009.

Vehicular access to the properties south of Lakeland Boulevard via E. 367th must be maintained at all times during construction operations.

The contractor is alerted to the fact that before the temporary excavation of work area number 1 can begin two sections of the existing waterline must be relocated as shown on sheet 1033.

Also note that before the initial stage of the existing 72-inch removal can begin, the existing power pole is to be relocated, by others, as indicated on the plans.

The existing 72-inch RCP that flows into the inlet of the existing 180-inch CMP is in conflict with the temporary excavation required for work area No. 1. The contractor is required to remove and replace 110' of the existing 72-inch RCP.

Note that during construction, the storm water currently flowing through the existing 72-inch RCP must be

maintained. Any temporary diversion of the storm water around work area number 1 is the responsibility of the contractor and the temporary storm water bypass system used by the contractor to divert the storm water is subject to the approval of the engineer. All contractor expenses related to diverting the storm water including the temporary storm water bypass system provided by the contractor is incidental to the construction of the proposed 72-inch RCP.

#### Answer to pre-bid question:

Q: Could you please provide the "office calcs" for the bituminous asphalt pavement items listed in the general summary.

A: The "office calculations" are linked to this addendum.



October 21, 2008

Re: Project 080597 Addendum No. 2 PID No. 13486 LAK-2-3.32 Major Widening Letting: December 5, 2008

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Respectfully,

Jame alter y /m

James G. Beasley Director Department of Transportation

#### **Revised Bid Items:**

Ref.	Item	Quantit	Unit	Description
No.	Number	У		
513	509E10001	109,168	LB	Epoxy Coated Reinforcing Steel, As Per Plan
553	509E10001	109,627	LB	Epoxy Coated Reinforcing Steel, As Per Plan
834	509E10001	53,632	LB	Epoxy Coated Reinforcing Steel, As Per Plan
854	509E10001	53,458	LB	Epoxy Coated Reinforcing Steel, As Per Plan
931	606E10310	126,752	SF	Special – Noise Barrier (Absorptive), Over 10' to 14'
				Height
936	606E10920	4391	SF	Special – Noise Barrier, Misc.: Structure Mounted TL-4
				Noise Barrier
944	619E16021	36	MNTH	Field Office, Type C, As Per Plan

Replace all notes in the plans referring to Item 511 – Class HP Concrete with the following note:

<u>Item 511 – Class HP Concrete, Bridge Deck, As Per Plan</u> <u>Item 511 – Class HP Concrete, Bridge Deck (Parapet), As Per Plan</u> <u>Item 511 – Class HP Concrete, Substructure, As Per Plan</u> <u>Item 511 – Class HP Concrete, Superstructure, As Per Plan</u> <u>Item 511 – Class HP Concrete, Sidewalk, As Per Plan</u> <u>Item 511 – Class HP Concrete, Test Slab</u>

#### **General Requirements**:

The provisions of Item 511 shall apply except as noted below.

#### **Mix Options:**

All superstructure, bridge deck, sidewalk, parapet, median barrier and approach slab concrete shall be this mix, as modified by Table A. All other structure concrete shall be this mix, as modified by Table B.

The following proportions will be used as a starting mix design:

	Quantities per Cubic Yard										
	Aggregates (SSD)										
	HP4, AS PER PLAN (GGBF SLAG + MICROSILICA)										
Aggregate	Fine	#8	#57	Cement	GGBF	Micro	W/CM	Air			
Туре	Aggre.	Coarse	Coarse	Conten	Slag	-	Ratio	Conten			
	(LB)	Aggre.	Aggre.	t	(LB)	Silica	$\pm .01$	t			
		(LB)*	(LB)	(LB)		(LB)		$\pm 2\%$			
Gravel	1245	360	1315	400	170	30	0.43	7			
Limestone	1245	360	1335	400	170	30	0.43	7			
Slag	1245	315	1155	400	170	30	0.43	7			

#### Table B Quantities per Cubic Yard Aggregates (SSD) HP2, AS PER PLAN (GGBF SLAG WITHOUT MICROSILICA) Aggregate Fine #8 #57 Cement GGBF Micro W/CM Air Coarse Type Conten Slag Ratio Aggre. Coarse Conten (LB)Aggre. Aggre. t (LB)Silica $\pm .01$ t (LB)\* (LB) (LB) $\pm 2\%$ (LB)Gravel 1245 1315 430 170 0 7 360 0.43 Limestone 1245 360 1335 430 170 0 0.43 7 1245 315 1155 170 0 0.43 7

430

\*All coarse aggregate shall have an absorption of 1.00% or greater as defined per ASTM C127.

The weights specified in the concrete table were calculated for materials of the following bulk specific gravities (SSD): natural sand and gravel 2.62, limestone sand 2.68, limestone 2.65, slag 2.30, fly ash 2.65, GGBF slag 2.90, micro-silica solids 2.20, and Portland cement 3.15. For aggregates of specific gravities differing more than plus or minus 0.02 from these, the weights in the table will be corrected.

Table A

#### **Parapet Construction (Formed and Poured):**

Forms shall not be removed until at least 2 hours after the final set. Determination of the final set shall be as per ASTM C266 (Gillmore Needle). Testing shall be performed by the Contractor at no cost to the State.

The minimum concrete slump during the placement of formed concrete parapets shall be 6 inches, with a maximum slump of 8 inches.

#### **Parapet Construction (Slip Formed):**

Slip forming parapet is prohibited.

#### **Basis of Payment**

Slag

Payment for the above completed and accepted quantities will be made at the contract bid price for:

Item **Units Description** 511E50001 Cu yd Class HP Concrete, Bridge Deck, As Per Plan 511E50101 Cu vd Class HP Concrete, Bridge Deck (Parapet), As Per Plan 511E50201Cu ydClass HP Concrete, Substructure, As Per Plan511E51001Cu ydClass HP Concrete, Superstructure, As Per Plan511E51501Cu ydClass HP Concrete, Sidewalk, As Per Plan511E52000LumpClass HP Concrete, Test Slab



October 27, 2008

Re: Project 080597 Addendum No. 3 PID No. 13486 LAK-2-3.32 Major Widening Letting: December 5, 2008

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Respectfully,

Jame alter y /m

James G. Beasley Director Department of Transportation

#### **Revised Bid Items**:

Ref. No.	Item Number	Quantity	Unit	Description
22	204E13000	14,204	CY	Excavation of Subgrade

Answer to Prebid Question:

- Q: There appears to be a duplication of quantity for the undercut at retaining wall #3. Ref # 22 "excavation of subgrade" includes approximately 7200 cyds of undercut at wall #3 as shown on cross section sheets 358 to 361. Ref # 480 "unclassified excavation, app" at wall #3 has a quantity of 5140 cyds for undercut excavation in the same location. See detail on plan page 965. Please review this duplication and decide which bid item will be utilized for the undercut at wall #3 and make the appropriate quantity revisions to the proposal.
- A: Ref # 22, Item 204 Excavation of Subgrade has been decreased by a quantity of 4513 cy. Item 503 (Ref #480) should be utilized.



October 28, 2008

Re: Project 080597 Addendum No. 4 PID No. 13486 LAK-2-3.32 Major Widening Letting: December 5, 2008

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Respectfully,

Tame Glang/m

James G. Beasley Director Department of Transportation

Revise the following general notes:

On sheet 53A:

#### LONGITUDIANL BUTT JOINTS

LONGITUDINAL BUTT JOINTS ARE REQUIRED ALONG AREAS WHERE TRAFFIC WILL CROSS FROM OLD TO NEW PAVEMENT. WHERE THE OLD PAVEMENT IS LOW, ITEM 614 - ASPHALT FOR MAINTAINING TRAFFIC SHALL BE PLACED. IF THE OLD PAVEMENT IS HIGHER, MILLING SHALL BE PERFORMED. THE TAPER RATE SHALL BE 1" OM 2' OR FLATTER. THE FOLLOWING ITEMS SHALL BE USED FOR THIS PURPOSE:

ITEM 254 - PAVEMENT PLANING, ASPHALT CONCRETE 3,000 SQ. YD.

ITEM 614 - ASPHALT FOR MAINTAINING TRAFFIC 50 CU. YD.

The fifth line should read: "BE PERFORMED. THE TAPER RATE SHALL BE 1" PER 10' OR FLATTER".

Also on sheet 53A:

#### MAINTAINING TRAFFIC AND SEQUENCE OF OPERATIONS

ALL ASPHALT CONCRETE OPERATIONS SHALL BE CONDUCTED IN A MANNER THAT WILL ASSURE MINIMUM DANGER AND INCONVENIENCE TO THE HIGHWAY USERS. ALL WORK SHALL BE PERFORMED AT THE TIMES PROVIDED IN THE "SCHEDULE OF THROUGH LANES TO BE MAINTAINED." THE PROCEDURE FOR THE REMOVAL OR PLACEMENT OF ANY EXISTING OR PROPOSED ASPHALT COURSE SHALL BE SUCH THAT NO GREATER THAN 12/2" DISCONTINUITY IN THE ELEVATION OF THE TRAVELED SURFACE SHALL BE EXPOSED TO TRAFFIC.

The seventh line should read: "SUCH THAT NO GREATER THAN 1 1/2" DISCONTINUITY IN THE."



November 5, 2008

Re: Project 080597 Addendum No. 5 PID No. 13486 LAK-2-3.32 Major Widening Letting: December 5, 2008

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Respectfully,

Jame alter y /m

James G. Beasley Director Department of Transportation

#### **Revised Bid Items:**

Ref. No.	Item Number	Quantity	Unit	Description
423	614E12756	3	Each	Work Zone Crossover Lighting System
206	625E10500	174	Each	Light Pole Misc.: Design ALM35

#### Please revise the proposal note:

"<u>PN 090 - 7/21/2006 - Work Type Codes and Descriptions</u>" the third paragraph shall read: 'Listed below are the work types for this proposal. In accordance with Ohio Law, a bidder must possess work types, and perform work equal to at least forty percent of the total amount of the submitted bid price."

Prebid Questions from prebid meeting 10/30/08:

Q: There is discrepancy in the crossover lighting quantity.

A: The crossover lighting quantity has been revised to 3 in addendum #5.

Q: Does ODOT want to keep the temporary lighting in the plans?

A: Yes, for safety reasons.

Q: It appears that there is not enough quantity of temporary signals.

A: The only actual temporary signal installation is at the EB exit ramp at Vine Street, all others are changes to phasing, timing or head locations covered under the maintenance of traffic signal/flasher installation note on sheet 51.

Q: Does ODOT want break away poles on top of the median barrier?

A: No. The poles are called out correctly on the plan sheets, but the description was incorrect in the lighting general summary. See addendum #5.



November 6, 2008

Re: Project 080597 Addendum No. 6 PID No. 13486 LAK-2-3.32 Major Widening Letting: December 5, 2008

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Respectfully,

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James G. Beasley Director Department of Transportation

#### **Revised Bid Items:**

Item	Quantit	Unit	Description
Number	У		
204E10000	35411	SY	Subgrade Compaction
302E46000	124532	CY	Asphalt Concrete Base, PG64-22
304E20000	74870	CY	Aggregate Base
407E10000	41859	GAL	Tack Coat
407E14000	20671	GAL	Tack Coat for Intermediate Course
408E10000	171245	GAL	Prime Coat
442E10100	19436	CY	Asphalt Concrete Intermediate Course, 19 MM, Type A, As
			Per Plan (446)
625E30706	18	Each	Pull Box, 725.08, 24"
	Number           204E10000           302E46000           304E20000           407E10000           407E14000           408E10000           442E10100	Number         y           204E10000         35411           302E46000         124532           304E20000         74870           407E10000         41859           407E14000         20671           408E10000         171245           442E10100         19436	Number         y           204E10000         35411         SY           302E46000         124532         CY           304E20000         74870         CY           407E10000         41859         GAL           407E14000         20671         GAL           408E10000         171245         GAL           442E10100         19436         CY

#### Added Bid Items:

2, PG64-22							
PG64-22							

#### **Deleted Bid Items:**

Ref. No.	Item Number	Quantit	Unit	Description
		у		
324	625E30720	2	Each	Pull Box, 725.08, 36"
598	604E31500	1	Each	Manhole, No. 3

#### **Answers to Prebid Questions:**

- Q: Bid reference 324 2 Ea Pull Box, 725.08, 36". After review of the plan sheets and the general notes I have been unable to locate a detail for this pull box. Will the engineer provide a detail so the pull box can be fabricated.
- A: The pull boxes have been revised to 24" in this addendum.
- Q: GPD calculations recently provided appear to be grossly overstated. Please verify quantities on Item 302 Asphalt Concrete Base, Item 407 Tack Coat, Item 408 Prime Coat, and Item 442 Asphalt Concrete Surface Course 12.5mm.
- A: The quantities have been adjusted in this addendum.
- Q: GPD calculations recently provided for ramps at SR 306 and SR 91 show quantities for 1.75 inches of Item 446 Asphalt Concrete Intermediate Course PG 64-22 and 1.25 inches of Item 446 Asphalt Concrete Surface Course PG 64-22. Typical sections for these areas show them receiving 1.75 inches Item 442 19mm and 1.5 inches Item 442 12.5mm. What is the Departments intent for these ramps?
- A: The typical sections are correct. The quantities have been adjusted in this addendum.
- Q: GPD calculations recently provided for side roads on SR 91 and SR 306 show quantities for Item 446 Asphalt Concrete Intermediate Course PG 64-22 and Item 446 Asphalt Concrete Surface Course PG

64-22. Typical sections for these areas show them receiving Item 446 Asphalt Concrete Intermediate Course PG 64-22 and Item 448 Asphalt Concrete Surface Course PG 64-22. These quantities seem to be included in Item 442 19mm and Item 442 12.5mm for payment. What is the Departments intent for these side road areas?

- A: Revised pavement calculations have been linked, and the quantities have been corrected in this addendum. The typical sections are correct.
- Q: Ref. 598 "Manhole #3- 1 Each"- this manhole is covered under subsummary for LAK-2-0395. Plan sheet 1319 shows it in the estimated summary. However, cannot find this manhole anywhere on plan sheets 1316-1326. Please provide information as to where this manhole is located.
- A: This item has been deleted in this addendum.



Ohio Department of Transportation 1980 West Broad Street, Columbus, OHIO 43223

#### THE DEPARTMENT USES THE BID EXPRESS WEBSITE, http://www.bidx.com AS AN OFFICIAL REPOSITORY FOR ELECTRONIC BID SUBMITTAL. BIDDERS MUST PREPARE THEIR BIDS ELECTRONICALLY USING EXPEDITE AND SUBMITTED VIA BID EXPRESS.

November 13, 2008

Re: Project 080597 Addendum No. 7 PID No. 13486 LAK-2-3.32 Major Widening Letting: December 5, 2008

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Respectfully,

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James G. Beasley Director Department of Transportation

#### **Revised Bid Items:**

Ref. No.	Item Number	Quantity	Unit	Description
25	206E11000	422,965	SY	Curing Coat
26	206E15000	422,965	SY	Cement Stabilized Subgrade, 12" Deep
150	302E46000	125,268	CY	Asphalt Concrete Base, PG64-22
151	304E20000	75,316	CY	Aggregate Base
152	407E10000	42,123	GAL	Tack Coat
153	407E14000	20,803	GAL	Tack Coat for Intermediate Course
154	408E10000	172,317	GAL	Prime Coat
155	442E10001	16,769	CY	Asphalt Concrete Surface Course, 12.5MM, Type A
				(446), As Per Plan
156	442E10100	19,564	CY	Asphalt Concrete Intermediate Course, 19MM, Type A
				(446)
160	451E14000	26,357	SY	9" Reinforced Concrete Pavement
085	603E01500	6565	FT	6" Conduit, Type F
142	605E13410	5390	FT	6"Unclassified Pipe Underdrains with Fabric Wrap

Answers to Prebid Questions:

- Q: The quantity given on the pavement calculation sheet in addendum one shows a quantity of 566.3 sy of 9" concrete pavement on Lakeland Blvd. Calculating the sy of pavement from the two typical sections on sheet 36 of 1679 for Lakeland Blvd. indicates a greater quantity. Please verify.
- A: Quantity has been adjusted in this addendum.
- Q: For the underdrain items References 0141 and 0143 the item descriptions include "with Fabric Wrap". Should Reference 0142 also include "with Fabric Wrap"?
- A: The item has been revised to include fabric wrap in this addendum.
- Q: Revised Office Calcs under the worksheet named LNAT Ramps have incorrect summations. Please revise quantities to include the last two rows listed as LN Ramp BF station 203+30 to station 203+80 and station 203+80 to station 207+14.
- A: The spreadsheet quantities have been revised and the revised spreadsheets are linked to this addendum.
- Q: Note 11 on plan sheet 188 of 1679 states that following removal of 621 RPMs resurfacing of the transition area shall be performed. General summary for this project do not provide quantities for resurfacing existing pavement beyond project limits. Please provide appropriate proposal items for this work.
- A: The quantities are shown in the MOT general notes on sheet 50 under Item 614 Work Zone Pavement Marker, As Per Plan. The quantities are also in the MOT general summary on sheet 57.



November 14, 2008

Re: Project 080597 Addendum No. 8 PID No. 13486 LAK-2-3.32 Major Widening Letting: December 5, 2008

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Respectfully,

Jame alter y /m

James G. Beasley Director Department of Transportation

Ref. No.	Item Number	Quantity	Unit	Description
159	448E46061	1548	CY	Asphalt Concrete Intermediate Course, Type 1, Under Guardrail, PG64-22, As Per Plan
446	615E20000	83,567	SY	Pavement For Maintaining Traffic, Class A

Add the following note to the plans:

## Removal of temporary pavement for maintaining traffic is included with the provisions of Item 615, unless otherwise specified in the plans.

#### Answer to prebid questions:

- Q: Ref. 446 and 447 (Pavement for Maintaining Traffic, Types A and B)- will ODOT please allow contractor at their own option to substitute additional 2" of 302 asphalt in lieu of 4" 304 stone as opposed to Value Engineering after the bid?
- A: This is an acceptable alternative providing it doesn't add any cost to the project.
- Q: Ref. 446- Pavement for Maintaining Traffic, Class A: Quantities on subsummary sheet 67 (1622 sy) were not carried to plan sheet 75 subsummary which in turn was not carried to general summary. Final quantity appears to be understated by this quantity. Please verify and address in an addendum.
- A: Quantity has been revised in this addendum
- Q: Plan sheets 121, 122, 167 and 168 show temporary pavement ramp connectors with the item designated as "Pavement for Maintaining Traffic, Class A". These two sections of temporary pavement appear to run across existing pavements and shoulders. Is the contractor supposed to reconstruct temporary pavement over existing here? Since these two area are paid as temporary pavements, when are they supposed to be constructed? Construction of these will require multiple lane, shoulder, and ramp shifts if they are required to be done prior to Stage 1, Phase C.
- A: The existing pavement is higher in these locations. The existing pavement is to be removed under the roadway quantities and temporary pavement is to tie the proposed ramp into the proposed mainline. The time period for construction is during the ramp closure when constructing the mainline pavement on the east side. At the tie in to the proposed mainline pavement the contractor shall place the pavement during the permitted lane closure times to only maintain one lane on SR 2. (weekend or nighttime). The barrier will only be moved once to reopen the ramp.



November 20, 2008

Re: Project 080597 Addendum No. 9 PID No. 13486 LAK-2-3.32 Major Widening Letting: December 5, 2008

Please be advised that the above referenced project has been delayed from the December 5, 2008 letting and is rescheduled to sell on **Wednesday, December 17, 2008**.

Notice to all Bidders and Suppliers to please be advised of the attached Proposal Addendum. The quantity sheets that show revised items will no longer be attached to the addenda. All Reference Item revisions are reflected in the EBS files (Expedite) for this project.

ADDENDA AND/OR AMENDMENTS MUST BE ACKNOWLEDGED IN THE MISCELLANEOUS SECTION OF THE EXPEDITE (EBS) FILE IN ORDER FOR YOUR BID TO BE CONSIDERED FOR AWARD OF THIS PROJECT. BID EXPRESS WILL NOT ACCEPT BIDS THAT DO NOT HAVE AMENDMENTS INCORPORATED. FAILURE TO INCORPORATE CHANGED QUANTITIES OR ITEMS IN YOUR EXPEDITE (EBS) SUBMISSIONS WILL RESULT IN THE REJECTION OF YOUR BID.

Respectfully,

Tama a Danly / m

James G. Beasley Director Department of Transportation

#### **Revised Bid Items:**

F	Ref. No.	Item Number	Quantit	Unit	Description			
			У					
	171	622E10061	2534	FT	Concrete Barrier, Single Slope, Type B, As Per			
					Plan			
	172	622E10100	19815	FT	Concrete Barrier, Single Slope, Type B1			
	173	622E10160	8619	FT	Concrete Barrier, Single Slope, Type D			

#### **Added Bid Items:**

Ref. No.	Item Number	Quantit	Unit	Description
		У		
1009	622E10200	3	Each	Barrier Transitions
1010	622E24840	2	Each	Concrete Barrier End Section, Type B
1011	622E24850	1	Each	Concrete Barrier End Section, Type B1
1012	622E25000	6	Each	Concrete Barrier End Section, Type D
1013	622E25020	83	Each	Concrete Barrier End Anchor, Reinforced
1014	622E25050	31	Each	Concrete Barrier End Anchor, Reinforced, Type
				D

#### **ITEM SPECIAL - ASBESTOS ABATEMENT**

Two asbestos surveys were conducted on the bridges along the SR-2 within the project area and were completed on June 27, 2006 and July 20, 2006 by a certified asbestos hazard evaluation specialist from HzW Environmental Consultants, Inc. The survey identified the asbestos containing materials at the location listed in the chart below.

#### **Insert Attached Table**

					Amount to be	Amount to remain on
Bridge	Description	SFN	ACM	Location	removed	Structure
			Structural			128 linear
			Expansion			feet
LAK-2-	Beidler Road over	4300	Construction	On the		
3.63	SR-2	483	Joint	superstructure		
			Cture of sugar			100 1:000
			Structural			128 linear
			Expansion			feet
LAK-2-	Beidler Road over	4300	Construction	On the		
3.63	SR-2	513	Joints	superstructure		
LAK-2-	WB SR-2 bridge over	4300	Gasket		30 square	
4.00	Vinestreet	+300 572	Material	Under rail posts	feet	
<b></b> 00	v mesueet	512	waterial			
LAK-2-	EB SR-2 bridge over	4300	Gasket		30 square	
4.00	Vinestreet	602	Material	Under rail posts	feet	

LAK-2-	NYCRR Bridge over	4300		On the		1,980
4.56	SR-2	661	Asphalt Mastic	superstructure		square feet
			Water proofing			3,114
			asphalt treated	On the		square feet
			felt	superstructure		•
			Asphalt roofing	•		
			felt for			
			Backwall	On the		216 square
			Flashing	superstructure		feet
			<sup>1</sup> /2-inch	superstructure		
			Preformed			
			Expansion	On the		30 square
			Joint Filler	superstructure		feet
			John Thier	On back of		
			Damp-Proofing	abutments and		3,465
			Material	wing walls		square feet
			4-6-inch	wing wans	1	square reel
			4-0-mcn Perforated			
			Bituminous			
			Coated			235 linear
			Corrugated	Tu the churtur oute		
			Metal Pipe	In the abutments		feet
			4-6-inch			
			Bituminous			
			Coated			00.1
			Corrugated	T (1 1 )		80 linear
		1000	Metal Pipe	In the abutments		feet
LAK-2-	WB SR-2 over Erie	4300	Gasket	<b>TT 1</b> 11	25 square	
4.86	Road	696	Material	Under rail posts	feet	
LAK-2-	EB SR-2 over Erie	4300	Gasket		25 square	
4.86	Road	726	Material	Under rail posts	feet	
			Waterproofing,			
LAK-2-	EB SR-2 over the	4300	pre-molded			42 linear
5.30	Chagrin River	785	sealing strips	In the abutments		feet
			1-inch			
			Preformed			
			Expansion			31 linear
			Joint Filler	In the abutments		feet
					1	
			Waterproofing,			
LAK-2-	WB SR-2 over the	4300	pre-molded			48 linear
5.30	Chagrin River			In the abutments		feet
0.00		,50	sealing strips 1-inch	In the douthents	1	1001
			Preformed			
			Expansion			35 linear
			Joint Filler	In the abutments		feet
				In the abutilicities		1001

			<sup>1</sup> / <sub>2</sub> 2-inch			
			Preformed			
LAK-2-	WB SR-2 Bridge	4301	Expansion	On the		293 square
9.55	over SR-615	005	Joint Filler	superstructure		feet
7.55		005	John Thier	superstructure		
			<sup>1</sup> / <sub>2</sub> 2-inch			
			Preformed			
LAK-2-	EB SR-2 Bridge	4301	Expansion	On the		293 square
9.55	over SR-615	013	Joint Filler	superstructure		feet
7100		015	John Thier	superstructure		
LAK-2-	Hendricks Road	4301	Caulking		18 square	
11.41	Bridge over SR-2	110	Material	Under rail posts	feet	
LAK-2-	WB SR-2 over	4301	Rail Gasket	On the parapet	4 square	
11.69	Heisley Creek	145	Material	wall	feet	
					1	
LAK-2-	EB SR-2 over	4301	Rail Gasket	On the parapet	4 square	1
11.69	Heisley Creek	234	Material	wall	feet	
LAK-2-	WB SR-2 over	4301	Caulking		22 square	
12.62	Heisley Creek	269	Material	Under rail posts	feet	
				<b>•</b>		
LAK-	SR-44 Ramp to WB	4301	Rail Gasket	On top of parapet	40 square	
44-6.20	SR-2	323	Material	wall	feet	
LAK-2-	SR-2 Ramp to SB-	4301	Rail Gasket	On top of parapet	30 square	
13.54	44	293	Material	wall	feet	
LAK-2-	Newell Street	4301	Rail Gasket	On top of parapet	16 square	
14.28	Bridge over SR-2	358	Material	wall	feet	
			Electrical			
LAK-2-	WB SR-2 over SR-	4301	Conduits for		528 linear	
14.76	283	382	lighting	In the parapets	feet	
			Electrical			
LAK-2-	WB SR-2 over SR-	4301	Conduits for		528 linear	
14.76	283	412	lighting	In the parapets	feet	
TARA		4201	Electrical		1011	
LAK-2-	WB SR-2 over	4301	Conduits for	Te the	181 linear	
15.17	Sanford Street	447	lighting	In the parapets	feet	
TATZA		4201	Electrical		101 1	
LAK-2-	EB SR-2 over	4301	Conduits for	In the nerver sta	181 linear	
15.17	Sanford Street	471	lighting	In the parapets	feet	

The removal and disposal of any asbestos containing material during the reconstruction of the bridges must comply with the Ohio Administrative Code, the Occupational Safety and Health Administration (OSHA) regulations, and the National Emission Standard for Hazardous Air Pollutants (NESHAP) Standards for

Asbestos.

A copy of the Ohio Environmental Protection Agency (OEPA) Notification of Demolition and Renovation forms with sections I-VII and XVI completed is included with the bid package. A copy of these form signed by the bridge owner will be provided to the successful bidder. The Contractor will complete sections VIII-XIII of the signed forms and submit the completed forms to the Local Air Authority at least ten (10) days prior to reconstruction of the bridges. The Contractor will provide a copy of the completed form to the Engineer. The Local Air Authority is:

Attn: Bert Mechenbier Lake County Air Pollution Control 33 Mill Street Painesville, Ohio 44077

A copy of the Ohio Department of Health notification form is also included with the bid package. A copy of this form must be completed and submitted to the Ohio Department of Health at least ten days (10) prior to the reconstruction of the bridges. The Contractor will provide a copy of the completed forms to the Engineer. The address is:

Ohio Department of Health Asbestos Program 246 North High Street P.O. Box 118 Columbus, Ohio4326-0118

The Contractor will provide an individual trained in the provisions of NESHAP that will be on-site during removal of the asbestos containing materials. In addition to the asbestos containing material identified in the Asbestos Survey Report, this individual will also, monitor any additional non-visible asbestos encountered within the project work limits.

The Contractor will furnish all labor, equipment, and materials necessary to complete, submit, and comply with the OEPA Notification form and to remove, transport, and dispose of the materials containing asbestos from within the project work limits. Payment of this work will be included in the bid Lump Sum price Item Special - Asbestos Abatement.

Unit

Lump Sum

#### Item Item Special - Asbestos Abatement

#### Answers to Prebid Questions:

- Q: Bid item 171 622 Single Slope Barrier, APP. B-2 on sheets 292-293 and B-1 on sheet 580 is the same piece and is listed twice in the summary tables. Also does there need to be a bid item for Single Slope Barrier APP End Section where abutting the attenuators what about End Anchors at the ends of some of the runs?
- A: The quantities have been revised in this addendum.
- Q: The inlet, sign and light foundation wall sections have not been deleted from the total length of the type B, B1 and D barrier wall items.
- A: The quantity has been revised in this addendum.
- Q: Sheet 261 shows Type D barrier wall for sheet 580 references B-2(56 LF) and B-3(57 LF).

However, sheet 253 indicates that there is 72 LF of Type D wall on sheet 293 for reference B-3 (72 LF). There is a double up of wall, please delete 72 LF from the total quantity.

- A: The quantity has been revised in addendum I.
- Q: Sheet 286 shows barrier wall B-4 as a type D wall. It should be type B wall. A: Yes you are correct.
- A: The quantity has been revised in this addendum.
- Q: Sheet 252 shows a quantity of 207 LF for reference B-2 on Sheet 288. According to sheet 288 this barrier wall run ends at station 392+75 where the guardrail begins. Please verify?
- A: On Sheet 252, eliminate B-2, 307' of Concrete Barrier, Type B, APP. The concrete barrier was converted to guardrail. Also, change the B-4 (sheet 287) on Sheet 252 to be 917' (not 958') of Concrete Barrier, Type B, APP. This accounts for the barrier from Sta. 383+04 to Sta. 392+75. The quantity has been revised in this addendum.
- Q: Sheet 255 shows a summary for Type D wall of sheet 254 of 1190 LF. However, looking at sheet 254 for the Type D wall shows a quantity of only 432 LF. Please correct.
- A: The quantity has been revised in this addendum. All of the concrete barrier quantities have been corrected in this addendum.
- Q: Sheet 858 has a note to reseal the pipe joints in accordance with item 516. Item 516 in the spec book is for expansion and contraction joints joint sealers and bearing devices. What is the intent of this note?
- A: Remove the reference to Item 516 from the profile. See the Note #3 for more details which explains that the cleaning, joining, and sealing of the pipe, is to be done as per Item 603.08.
- Q: In regards to reference items 0047, 0048 and 0049 (asbestos abatement) on the LAK-2-3.32 project, we have the following question: On page 46/1679, a takeoff of the summary of the two asbestos surveys (conducted by HZW Environmental) shows a total of 110 SF of asbestos removal and 146 LF of asbestos removal for the bridges within the scope of this project (LAK-2-4.00, LAK-2-4.86 and LAK-2-5.30). However, sheet 46B/1679 shows a total of 6300 SF (REF 0047) and 200 LF (REF 0048). How do the quantities on sheet 46/1679 correlate with the ummaries on sheet 46B/1679 in regards to references 0047 and 0048. Additionally, what does reference 0049 (asbestos abatement 1.0 LS) encompass?
- A: Ref items 47 and 48 pertain to the quantities on sheet 46B/1679 and the special provisionsasbestos inspection report for parcel 9, dated 3/24/08 for the building demolition at 36628 Vine St. Ref item 49 pertains to sheet 47/1679 dealing with asbestos removal for the bridges and is a lump sum pay item. The Asbestos Abatement note on sheet 46/1679 has been revised in this addendum.
- Q: Please clarify how the quantities were determined for Ref. 47 and 48. What is this material, and where is it located?
- A: There is a general note on sheet 46B/1679 which explains the quantities for reference numbers 47 and 48. The special provisions asbestos inspection report for parcel 9, dated 3/24/08 describes the materials found and where they are located.
- Q: The lump sum Asbestos Abatement item (Ref. 49) has notes on plan sheet 46/1679 that are confusing. Several of the structures listed there are not even within the scope of this project. For the structures that are in this project, why are the Square Foot and Linear Foot quantities shown not part of Ref. 47 and 48?
- A: Ref item 49 refers to the asbestos removal from the bridges which will be paid as a lump sum. The Item Special Asbestos Abatement note has been revised in this addendum.

- Q: Based on the note "REINFORCED END ANCHORAGES" in RM 4.3 page 2 of 2, it would appear that some end anchorages would be required in the Concrete Barrier, Single Slope items (171, 172, and 173). However, we do not find any end anchorage pay items. Please clarify.
- A: You are correct. See revisions in this addendum.



Ohio Department of Transportation 1980 West Broad Street, Columbus, OHIO 43223

#### THE DEPARTMENT USES THE BID EXPRESS WEBSITE, http://www.bidx.com AS AN OFFICIAL REPOSITORY FOR ELECTRONIC BID SUBMITTAL. BIDDERS MUST PREPARE THEIR BIDS ELECTRONICALLY USING EXPEDITE AND SUBMITTED VIA BID EXPRESS.

December 11, 2008

Re: Project 080597 Addendum No. 10 PID No. 13486 LAK-2-3.32 Major Widening Letting: January 21, 2009

Please be advised that the above referenced project has been delayed from the December 17, 2008 letting and is rescheduled to sell in a special letting scheduled for **Wednesday**, January 21, 2009.

Notice to all Bidders and Suppliers to please be advised of the attached Proposal Addendum. The quantity sheets that show revised items will no longer be attached to the addenda. All Reference Item revisions are reflected in the EBS files (Expedite) for this project.

For internet access to information referenced in this addendum, please see the ODOT web-site at:

ftp://ftp.dot.state.oh.us/pub/Contracts/Attach/LAK-13486/

ADDENDA AND/OR AMENDMENTS MUST BE ACKNOWLEDGED IN THE MISCELLANEOUS SECTION OF THE EXPEDITE (EBS) FILE IN ORDER FOR YOUR BID TO BE CONSIDERED FOR AWARD OF THIS PROJECT. BID EXPRESS WILL NOT ACCEPT BIDS THAT DO NOT HAVE AMENDMENTS INCORPORATED. FAILURE TO INCORPORATE CHANGED QUANTITIES OR ITEMS IN YOUR EXPEDITE (EBS) SUBMISSIONS WILL RESULT IN THE REJECTION OF YOUR BID.

Respectfully,

Jama Clany /m

James G. Beasley Director Department of Transportation

#### **General Information for Proposed Alternative Bids for Project Typical Section**

The plans and proposal are being changed by this addendum to add Alternate Bid provisions to the proposal to incorporate Item 452 – Non-Reinforced Portland Cement Concrete Pavement as an alternate to the full depth flexible pavement as shown in the plans. Separate typical sections for the PCC alternative have also been provided.

The Contractor will be responsible to supply bids for both alternates. Bid items for PCC specific work will be added (as AA2 items) and the full depth asphalt pavement related items will re-identified as AA1. All non-specific items will remain as originally shown in the proposal or as revised in previous addenda. Although the pavement build up (thickness) for alternative AA2 is 1 <sup>1</sup>/<sub>2</sub>" less than alternative AA1, the profile grade, drainage structures and underdrains will be unchanged from sheets 274-297, 450, 451, 468, 469, 482, 488-490, 500, 501, 506, 507, 512, 513, 526, 532, 533, 542, 543, 551, 556, 561, 562, 580, 581, 594, 595, 616, 617. The cross sections in the plans were developed with alternative AA1 in mind, but earthwork quantity adjustments for alternative AA2 have been incorporated to account for the pavement thickness and edge detail differences.

The contractor is required to submit a Contractor Prepared MOT Plan by bid item for both alternates and implement the MOT plan based on the notes and contract items provided. The maintenance of traffic plans, MOT contract items and quantities that may have been previously viewed are for informational purposes only, or are revised as noted.

All plan references to "maintenance of traffic time frames" other than noted, or specified within this addendum, shall be disregarded.

All requirements of CMS 401 shall apply with the exception of 401.20. An "Asphalt Binder Price Adjustment" will not be provided by the Department, for any of the work provided for within the Bid Documents or any changes during the implementation of the project.

Ref.	Item	Alternate	Quantity	Unit	Description
No.	Number	Item			1
150	302E46000	AA1	120116	CY	Asphalt Concrete Base, PG64-22
151	304E20000	AA1	74763	CY	Aggregate Base
152	407E10000	AA1	40687	Gal	Tack Coat
153	407E14000	AA1	20344	Gal	Tack Coat for Intermediate Course
154	408E10000	AA1	172035	Gal	Prime Coat
155	442E10001	AA1	16370	CY	Asphalt Concrete Surface Course, 12.5 MM,
					Type A (446), As Per Plan
156	442E10100	AA1	19089	CY	Asphalt Concrete Intermediate Course, 19 MM,
					Type A (446)
171	622E10061	AA1	2534	FT	Concrete Barrier, Single Slope, Type B, As Per
					Plan
172	622E10101	AA1	19815	FT	Concrete Barrier, Single Slope, Type B1, As Per

Alternate AA1:

Ref.	Item	Alternate	Quantity	Unit	Description
No.	Number	Item			
					Plan
173	622E10161	AA1	8619	FT	Concrete Barrier, Single Slope, Type D, As Per
					Plan
943	614E11000	AA1	LS	LS	Maintaining Traffic
1009	622E10200	AA1	3	Each	Barrier Transition
1010	622E24840	AA1	2	Each	Concrete Barrier End Section, Type B
1011	622E24850	AA1	1	Each	Concrete Barrier End Section, Type B1
1012	622E25000	AA1	6	Each	Concrete Barrier End Section, Type D
1013	622E25020	AA1	83	Each	Concrete Barrier End Anchor, Reinforced
1014	622E25050	AA1	31	Each	Concrete Barrier End Anchor, Reinforced, Type
					D

#### **Deleted Items:**

19	203E10000	AA1	361191	CY	Excavation
20	203E20000	AA1	279277	CY	Embankment
24	206E10500	AA1	12562	Ton	Cement
25	206E11000	AA1	422965	SY	Curing Coat
26	206E15000	AA1	422965	SY	Cement Stabilized Subgrade 12" Deep
27	206E20000	AA1	211	Hour	Test Rolling
28	206E30000	AA1	LS	LS	Contractor Designed Chemically Stabilized Subgrade
174	622E90200	AA1	6	Each	Concrete Barrier End Section, Type D

#### Added Items:

Auucu				r	
Ref.	Item	Alternate	Quantity	Unit	Description
No.	Number	Item			
1015	451E30000	AA1	178	FT	Pressure Relief Joint, Type A
					Maintaining Traffic Misc.:
1016	614E18000	AA1	1	Each	Contractor Prepared Maintenance of Traffic
					Plan
1017	618E40600	AA1	17.72	Mile	Rumble Strip, (Asphalt Concrete)
1018	203E10000	AA1	387194	CY	Excavation
1019	203E20000	AA1	279277	CY	Embankment
1020	206E10500	AA1	12388	Ton	Cement
1021	206E11000	AA1	416280	SY	Curing Coat
1022	206E15000	AA1	416280	SY	Cement Stabilized Subgrade 12" Deep
1023	206E20000	AA1	209	Hour	Test Rolling
1024	206E30000	AA1	LS	LS	Contractor Designed Chemically Stabilized
1024					Subgrade

### **Alternative AA2:**

#### Added Items:

Ref.	Item	Alternate	Quantity	Unit	Description
No.	Number	Item			
1025	203E10000	AA2	380099	CY	Excavation
1026	203E20000	AA2	296425	CY	Embankment
1027	206E10500	AA2	12147	Ton	Cement

Ref.	Item	Alternate	Quantity	Unit	Description
No.	Number	Item			
1028	206E11000	AA2	408974	SY	Curing Coat
1029	206E15000	AA2	408974	SY	Cement Stabilized Subgrade 12" Deep
1030	206E20000	AA2	204	Hour	Test Rolling
1031	206E30000	AA2	LS	LS	Contractor Designed Chemically Stabilized
					Subgrade
1032	304E20000	AA2	50332	CY	Aggregate Base
1033	451E30000	AA2	2028	FT	Pressure Relief Joint, Type A
1034	452E17200	AA2	394559	SY	Non-Reinforced Concrete Pavement, Misc.: 11.5" thickness
1035					Maintaining Traffic Misc.:
	614E18000	AA2	1	Each	Contractor Prepared Maintenance of Traffic
					Plan
1036	618E40700	AA2	17.72	Mile	Rumble Strips, (Concrete)
1037	622E10061	AA2	2534	FT	Concrete Barrier, Single Slope, Type B, As Per
					Plan
1038	622E10101	AA2	19815	FT	Concrete Barrier, Single Slope, Type B1, As Per Plan
1039	622E10161	AA2	8619	FT	Concrete Barrier, Single Slope, Type D, As Per Plan
1040	622E10200	AA2	3	Each	Barrier Transition
1041	622E24840	AA2	2	Each	Concrete Barrier End Section, Type B
1042	622E24850	AA2	1	Each	Concrete Barrier End Section, Type B1
1043	622E25000	AA2	6	Each	Concrete Barrier End Section, Type D
1044	622E25020	AA2	83	Each	Concrete Barrier End Anchor, Reinforced
1045	622E25050	AA2	31	Each	Concrete Barrier End Anchor, Reinforced,
					Type D
1046	614E11000	AA2	LS	LS	Maintaining Traffic

#### **Revise the Note From Addendum #1 to Read:**

The contractor shall be assessed disincentives, as designated in the lane value contract table below, for each unit of time the described critical ramp is restricted from full use by the traveling public within the time period. The disincentives will be assessed for all restrictions of the critical work.

Critical work is shown in the lane value contract table.

Critical work is defined as having the designated sections open to unrestricted traffic as shown in the table, or the entire project if not otherwise listed.

Unrestricted traffic is defined as all traffic lanes being available for use with temporary safety features in place.

Description or	Completion	Time Unit	Disincentive
Location of	Date		
Critical Work			
All work needed to re-open SR-91 Ramp A to traffic	Day 45	Day	\$5000/Day
All work needed to re-open SR-91 Ramp B to traffic	Day 45	Day	\$7000/Day

Description or	Completion	Time Unit	Disincentive
Location of	Date		
Critical Work			
All work needed to re-open SR-640 Ramp A to traffic	Day 45	Day	\$5000/Day
All work needed to re-open SR-640 Ramp D to traffic	Day 45	Day	\$5000/Day
All work needed to re-open SR-6401 Ramp E to traffic	Day 45	Day	\$5000/Day
All work needed to re-open SR-640 Ramp H to traffic	Day 45	Day	\$5000/Day
All work needed to re-open Lost Nation Ramp A to traffic	Day 45	Day	\$6000/Day
All work needed to re-open Lost Nation Ramp B to traffic	Day 45	Day	\$7500/Day
All work needed to re-open Lost Nation Ramp E to traffic	Day 45	Day	\$500/Day
All work needed to re-open Lost Nation Ramp F to traffic	Day 45	Day	\$4500/Day
All work needed to re-open SR-306 Ramp I to traffic	Day 45	Day	\$11,500/Day
All work needed to re-open SR-306 Ramp K to traffic	Day 45	Day	\$9000/Day
All work needed to re-open SR-306 Ramp N to traffic	Day 45	Day	\$13,000/Day
All work needed to re-open SR-306 Ramp O to traffic	Day 45	Day	\$7500/Day

Add the following Notes:

**Cement Concrete Alternate**)

### <u>Item 614 – Maintaining Traffic, Misc.: Contractor Prepared Maintenance of Traffic Plans (Asphalt Concrete Alternate)</u> <u>Item 614 – Maintaining Traffic, Misc.: Contractor Prepared Maintenance of Traffic Plans (Portland</u>

This item of work shall include the preparation of a complete Maintenance of Traffic Plan by the Contractor for each alternate. These plans shall include all necessary phases and details to construct the improvements on SR-2, all ramps, all side streets and all of the bid document work that impacts traffic.

The plans shall be sealed by a Professional Engineer, registered in the State of Ohio and three (3) review sets of 11" x 17" plans along with one copy of the electronic images in (.tif format) shall be submitted one month prior to the initial project commencement of work for a compliance and acceptance review by the Department. All Department comments on the plans be shall addressed and resolved prior to the commencement of work. Upon the acceptance of the plan, based on its compliance with the Bid Documents, provide the Department with three (3) copies of the accepted final sets of the 11" x 17" plans along with one copy of the accepted final sets of the 11" x 17" plans along with one copy of the accepted final sets of the 11" x 17" plans along with one copy of the accepted final sets of the 11" x 17" plans along with one copy of the accepted final sets of the 11" x 17" plans along with one copy of the accepted final sets of the 11" x 17" plans along with one copy of the accepted final sets of the 11" x 17" plans along with one copy of the accepted final sets of the 11" x 17" plans along with one copy of the accepted final sets of the 11" x 17" plans along with one copy of the accepted final sets of the 11" x 17" plans along with one copy of the accepted final sets of the 11" x 17" plans along with one copy of the accepted final sets of the 11" x 17" plans along with one copy of the accepted final sets of the 11" x 17" plans along with one copy of the accepted final sets of the 11" x 17" plans along with one copy of the accepted final sets of the 11" x 17" plans along with one copy of the accepted final sets of the 11" x 17" plans along with one copy of the accepted final sets of the 11" x 17" plans along with one copy of the accepted final sets of the 11" x 17" plans along with one copy of the accepted final sets of the 11" x 17" plans along with one copy of the accepted final sets of the 11" x 17" plans along with one copy of the accepted final sets of the 11" x 17" plans along with one copy of the accepted

The plan shall comply with all current ODOT standard drawings, Traffic Engineering Manual, Ohio Uniform Manual of Traffic Control Devices (OMUTCD) and applicable design guidelines for maintaining traffic.

The contractor prepared Maintenance of Traffic plans shall provide for the following:

- 1. For SR-2, two lanes in each direction at all times, unless noted.
- 2. 11' minimum lane width (12' desired) for all lanes maintained.
- 3. 1' minimum offset between edge line and toe of portable concrete barrier (1.5' offset between edge line and toe of portable concrete barrier desired, as per sheet 189) for all lanes maintained.
- 4. 1' minimum offset between edge line and edge of pavement (2' desirable) for all lanes maintained.
- 5. The drop-off treatment detailed in the plans on sheet 189/1679 must be followed.
- 6. 50" Portable Concrete Barrier required for SR-2 mainline and ramps. 32" Portable Concrete Barrier will be acceptable on side streets.
- 7. Crossover Lighting is to be utilized if a crossover is proposed for SR-2. Crossover lighting shall meet all applicable provisions of the OMUTCD and the TEM.

- 8. Detour routes for ramp reconstruction on sheets 175, 176, 179, 180-182, 185 including details and work items, shall be incorporated into the plan.
- 9. No consecutive ramps in the eastbound or westbound direction (i.e. EB SR-2 to Lost Nation Rd., Ramp E and EB SR-2 to Reynolds Rd., Ramp K) shall be closed at the same time. Also, at each interchange, a maximum of only two ramps may be closed concurrently.
- 10. Contractor prepared Maintenance of Traffic plans shall be compatible with the bridge Maintenance of Traffic details in the bridge plans, sheets1272-1618. No changes in the bridge, approach slab or substructure longitudinal cut line will be permitted.
- 11. Side street reconstruction shall be coordinated with ramp closures and reconstruction.
- 12. All normal lanes of traffic shall be open to unrestricted traffic from November 1 to March 1.
- For possible mainline tie-ins between new and old pavement, the maximum grade shall be 1" in 35'. For possible ramp tie-ins between new and old pavement, the maximum grade shall be 1" in 15'.
- 14. The following revised sheets refer to the asphalt alternative 47-53, 53A including details and work items, shall be incorporated into the plan.
- 15. The following added sheets refer to the concrete alternative 29A-Q, 56A-H and 188A including details and work items, shall be incorporated into the plan.
- 16. The following revised sheets refer to both alternatives 89-91, 175, 176, 179, 183, 185-187 including details and work items, shall be incorporated into the plan.
- 17. The plans shall ensure a reasonable and practical design comparable to conventional ODOT plans, while utilizing cost-effective measures.
- 18. The contractor prepared MOT plan shall provide for the completion of work by the established completion date within the proposal.
- 19. Contractor shall maintain positive drainage.
- 20. In addition to the requirements for the Contractor Prepared Maintenance of Traffic plans, the Contractor will be responsible to supply the Department a jointing plan for the concrete pavement alternative. These jointing plan details will only be required outside of the normal standard drawing applications (i.e. for ramps, pavement transition sections and intersections). The jointing plans shall be prepared in accordance to the Typical Sections, Standard Drawings and Pavement Design manual. Jointing plans shown sheets 822-829 shall be incorporated into contractor prepared plans.
- 21. The contractor prepared Maintenance of Traffic plans shall depict the project being completed in four separate stages. The stages shall be constructed in order, beginning with Stage 1 and ending with Stage 4. All work (\*) in the previous stage shall be completed and opened to unrestricted traffic prior to starting the next phase.

\*For the asphalt alternative, the mainline and ramp pavement work in Stage 1, 2 and 3 shall include the asphalt up to and including the intermediate course. The final surface course shall be placed in Stage 4.

22. If temporary signals are utilized, the contractor shall meet all applicable provisions of the OMUTCD

and the TEM.

- 23. Plans shall provide a sequence of operations based on the Stages outlined within this addendum.
- 24. The MOT plans shall be developed in compliance with the permitted lane closure note unless otherwise permitted or restricted by this addendum. Specified time frames and road closure provisions within this addendum shall override any time provisions provided for within the permitted lane closure note.
- 25. The MOT plans shall include "beam-erection detour" plans as necessary to perform the work. Intermittent roadway closures for beam erection shall only occur during off peak or

nighttime hours and in addition shall comply with the permitted lane closure note and all other provisions within this addendum and the Bid Documents.

- 26. The plans must, at all times, provide for the maintenance of at least one point of access to properties adjacent to the work, which retain legal access to the public rights of way.
- 27. **Detour Notification:** The plans shall provide for, and the contractor shall advise the ODOT District 12 Office (216-584-2007), the Lake County Engineer (440-350-2770), the City of Eastlake (440-951-9361), the City of Willoughby (440-951-2800) and the City of Mentor (440-255-1100) eighteen (18) days in advance of when a detour route should be in effect. All signs and supports required for the designated detours shall be furnished, erected, maintained, and subsequently removed by the contractor. See detour sheets 175, 176, 179, 183, 185-187.

The Contractor Prepared Maintenance of Traffic Plans shall be prepared to include and provide for the following format and details:

- A. Plan scale for the SR-2 reconstruction, 1"=50 feet
- B. Plan scale for side streets and ramp reconstruction, 1"=20 feet or 1"= 40'
- C. Work Limits identified.
- D. Portable Concrete Barrier offsets to edge lines.
- E. Edge Line offsets to edges of pavement
- F. Temporary lane widths
- G. Lane taper rates
- H. Barrier taper rates
- I. Proposed MOT signs
- J. Temporary pavement marking locations.
- K. Begin and end station callouts for all details.
- L. Sub summaries of all required quantities with standard ODOT items and extensions.
- M. Develop the plans in 11" x 17" format and develop electronic images in (.tif format).
- N. The time table established within the lane value contract table shall be incorporated into the plan.
- O. Temporary pavement locations and quantities.

The work required for each stage and the contractor sequence of operations is outlined below:

For Stage 1, the following must be completed:

- Reconstruct SR-2 pavement, full width, including the median barrier, new drainage and signing from Sta. 420+00 to Sta. 521+50. (Note: due to the elevation differences between the old and new pavement at Sta. 420+00, a temporary pavement tie-in may be required)
- The Reynolds Rd. interchange work shall include the widening of Reynolds Rd., the reconstruction and realignment of Ramp I, K, N and O, new drainage, signing and pavement markings.
  - 1. During construction, Ramps I, K, N and O can be closed for 45 days each. See sheets 180, 181, 182 and 185 for detour details.
  - 2. For Reynolds Rd., a minimum of 2 thru lanes (11' min.) in one direction and one thru lane in the opposite direction (11' min.) along with the left turn lane onto the entrance ramps shall be maintained in the interchange area with a one lane closure adjacent to the ramp for ramp reconstruction tie in work. These closures shall be staggered so at no time will Reynolds Rd. be limited to one lane in each direction.

- The Lost Nation Rd. interchange work shall include the reconstruction and realignment of Lost Nation Rd., replacement of the Lost Nation Rd. bridge, reconstruction of the Oak Hill Lane and Reeves Rd. intersections, reconstruction and realignment of Ramp A from the Lost Nation intersection to Sta. 89+85, Ramp E from the Lost Nation intersection to Sta. 97+85, Ramps B and F from the Lost Nation intersection to Sta. 89+00, new drainage, signing, pavement markings, the removal of the high mast lighting and install temporary lighting.
  - 1. Prior to beginning work at the SR-2/Lost Nation Rd. interchange, the contractor shall remove the high mast towers at the interchange which shall be completed prior to setting up work zones on Lost Nation Rd. and SR-2.
  - 2. During construction, Lost Nation Ramps A, E, B and F can be closed for 45 days each. See sheet 179 for detour details.
  - 3. For Lost Nation Rd., one lane (11' min.) in each direction on Lost Nation Rd. shall be maintained at all times.
  - 4. Reeves Rd. shall be detoured as per sheet 187 when constructing the Lost Nation Rd./Reeves Rd. intersection.
  - 5. When constructing the Lost Nation Rd./Oak Hill Lane intersection, one lane of traffic shall be maintained for Oak Hill Lane.
- The culvert lining work and related construction activities at Sta. 308+66.09, centerline SR-2 and at

E 367 St. shall be completed by the contractor in Stage 1, by June 1, 2009.

- 1. Vehicular access to the properties south of Lakeland Blvd. E. 367th must be maintained at all times during construction operations.
- Construct the 8'x5' and 42" culverts at Sta. 336+05 and Sta. 345+16, respectively. The contractor shall construct the outlet end first which will require the closing of Stevens Blvd. Stevens Blvd. shall only be closed for one weekend.
  - 1. If needed, the contractor is limited to three weekend one lane closures of SR-2 (10 PM Fri to 6AM Mon) to facilitate the construction of the 8'x5' and 42" culverts which shall be at the approval of ODOT. The contractor shall contact the surrounding cities and ODOT 18 days prior to closing SR-2 to one lane.
  - 2. Stevens Blvd. traffic shall be detoured as per sheet 183 for one weekend only (10 PM Fri to 6AM Mon).
- The following construction activities shall also be constructed during this phase:
  - <u>Metro Park Retaining Wall.</u>
  - Newell Creek bridges
  - Lost Nation Rd. Ramp D bridge.
  - Chagrin River Substructure work in the river.
  - Culvert at Sta. 341+45
  - Wall #3 (Lost Nation Rd.)
- The following construction activities may be constructed during this phase (work may commence in Stage 1 but does not have to be completed prior to starting Stage 2):

- East 361<sup>ST</sup> St. left structure.
- Erie St. bridge substructure work.

For Stage 2, the following must be completed:

- Reconstruct SR-2 pavement, full width, including the median barrier, new drainage and signing from Sta. 351+25 to Sta. 420+00. (Note: due to the elevation differences between the old and new pavement at Sta. 351+25, a temporary pavement tie-in may be required).
- For the Lost Nation interchange, reconstruct and realign the remainder of Ramps A, E, B, F and D.
  - 1. During construction, Lost Nation Ramps A, E, B and F can be closed for 45 days each. See sheet 179 for detour details.
- The following construction activities shall also be constructed during this phase:
  - Erie St. Bridge.
  - Chagrin River Bridge.
  - Erie St. Retaining Wall

For Stage 3, the following must be completed:

- Reconstruct SR-2 pavement, full width, including the median barrier, new drainage and signing from Sta. 276+00 to Sta. 351+25.
  - 1. During construction of SR-2 and Vine St. during Stage 3, the westbound entrance ramp on the south side of Vine St. may only be closed during the AM peak (6AM to 10 AM, Mon. Fri.) hours and detoured per sheet 177.
- The SOM Center Rd. work shall include the reconfiguration and widening of SOM Center Rd. and the reconstruction of Ramp A and B, new drainage, signing and pavement markings.
  - 1. During Stage 3 construction, when SOM Center Rd. Ramp A remains open it shall be closed during PM Peak hours (3 PM to 6 PM, Mon. Fri.) and detoured as per sheet 175.
  - 2. During construction, SOM Center Rd. Ramps A and B can be closed for 45 days each. See sheet 175 for detour details.
  - 3. SOM Center Rd. Ramps C and D shall remain open at all times.
  - 4. SOM Center Rd. shall be completed in part-width construction, maintaining one 11' thru lane of traffic in each direction and the northbound left turn lanes at Ramp D and Curtis Blvd.
- The Vine St. interchange work shall include the reconfiguration and widening of Vine St. the reconstruction and realignment of Ramp A, D, E and H, new drainage, signing and pavement markings.
  - 1. During construction, Vine St. Ramps A, D, E and H can be closed for 45 days each. See sheet 176 for detour details.
  - 2. A minimum of one lane (11' min.) in each direction along with one left turn lane onto the

entrance ramps shall be maintained on Vine St. in the interchange area.

- Lakeland Blvd. shall be constructed in two phases, and shall coincide with the work on the south side of Vine St.
  - 1. Access shall be maintained to the local businesses on Lakeland Blvd. throughout each phase of construction.
  - 2. Each phase shall be completed within thirty (30) calendar days and opened to traffic using part width construction. Liquidated damages in accordance with the C&MS Table 108.07-1 or as revised in the Contract Documents shall be assessed for each Calendar day phased work extends beyond that required herein.
- The following construction activities shall also be constructed during this phase:
  - 1. Vine St. Retaining Wall.
  - 2. East 361<sup>ST</sup> St. right structure.
  - 3. Vine St. bridge

Stage 4 (Asphalt Alternative), the following must be completed:

- Stage 4 shall consist of placing the final surface course over the entire roadway surface of the mainline and ramps, final pavement markings, raised pavement markers and all work completed.
  - 1. Traffic shall be maintained in accordance with the permitted lane closure note.

Stage 4 (Concrete Alternative), the following must be completed:

- Stage 4 shall consist of placing the final pavement markings, raised pavement markers and all work completed.
  - 1. Traffic shall be maintained in accordance with the permitted lane closure note.

Develop all necessary changes to the Department accepted Contractor Prepared MOT Plan, to implement the work and to effectively manage traffic and operations, in accordance with the Contract Documents and the identified intent, in accordance with the provisions of this item. Provide the Department three (3) copies of all MOT Plan changes made during the prosecution of the work. If during the prosecution of work, errors are identified in the Contractor Prepared MOT Plan, revisions to the plan shall be developed and provided to the Department. Develop and provide MOT Plan modifications requested by the Department during the prosecution of the work to bring the plan into compliance with the Contract Documents.

Any payment for changes to the Contract Prepared MOT Plan requested by the Department to facilitate the performance of Department directed extra work will be resolved in accordance with the Contract Document change order provisions.

Payment for all work provided for within this item and any changes to the work for this item shall be included within and accounted for by the Bidder at the unit price bid for each Item 614 – Maintaining Traffic, Misc.: Contractor Prepared Maintenance of Traffic Plan (by Type).

#### **Maintaining Traffic:**

Work necessary to implement the Contractor Prepared Maintenance of Traffic Plan, for the project, shall be Bid in accordance with the Bid Documents. Payment for all work necessary to implement the MOT Plan in full and as may be modified, in accordance with the Bid Documents, will be made in accordance with the following:

[Department MOT Plan implementation payment in full and as may be modified.] = [Lump sum bid for Item 614 – Maintaining Traffic (Asphalt Concrete Alternate) **or** (Portland Cement Concrete Alternate)] + [The sum of: {MOT item unit bid prices, provided for and Bid upon in the Bid Documents} **x** {MOT items quantity provided for within the Department accepted Contractor Prepared MOT Plan (as accepted prior to the commencement of work), the actual quantity used, **or** up to the contract item quantity provided in the Bid Documents <u>whichever is less.}</u>]

#### <u>Item 614 – Maintaining Traffic (Asphalt Concrete Alternate):</u> <u>Item 614 – Maintaining Traffic (Portland Cement Concrete Alternate):</u>

This item of work, and the lump sum unit bid item for this work, shall provide for the Contractor's, along with his Work Zone Traffic Supervisor(s) implementation, effective management, and maintenance of the accepted Item 614 – Maintaining Traffic, Misc.: Contractor Prepared Maintenance of Traffic Plan (by Type) and provides for complete and full payment for Item 614 – Maintaining Traffic detailed in the Bid Documents and payment for all MOT items of work and work task (as determined by each Contractor in his "accepted" MOT Plan), above, not provided in, or in excess of that which is provide for within the bid documents. The Department will make payment for MOT items listed in the Bid Documents at the unit bid prices provide at the time of bid up to the quantity provided for within the Department accepted Contractor Prepared MOT plan, as accepted prior to the commencement of work, the actual quantity used, or up to the contract item quantity provided in the Bid Documents whichever is less. All cost to implement the MOT plan or modifications or revisions thereto in order to complete project work are considered to be provided for as incidental to the work compensated for and are provided for under this item of work. The Department will not provide any further compensation to implement the Contractor MOT Plan or to complete the work beyond that which is provided herein. MOT modifications requested by the Department, during the prosecution of the work, to bring the plan into compliance with the Contract Documents are considered to be provided for as incidental to the work compensated for and provided for by this item of work.

All work and traffic control devices shall be in accordance with CMS 614 and other applicable portions of the specifications, as well as the Ohio Manual of Uniform Traffic Control Devices. Payment for all labor, equipment and materials shall be included in the lump sum contract price for Item 614, Maintaining Traffic, unless separately itemized in the bid documents.

Any payment for changes to the Contract MOT work as provided for within the Bid Documents requested by the Department to facilitate the performance of Department directed extra work will be resolved in accordance with the Contract Document change order provisions.

Payment for all work provided for by this item and any changes to the work for included within this item shall be and accounted for by the Bidder within the lump sum bid for Item 614 – Maintaining Traffic (by type).

#### Maintenance of Traffic Bid Quantities:

The following contract MOT items and associated quantities are to be Bid upon by all Bidders to establish the basis of pay for the performance of work necessary to implement Item 614 – Maintaining Traffic, Misc.: Contractor Prepared Maintenance of Traffic Plan (by Type) in accordance with the Bid Documents.

Bid items to implement the Item 614 – Maintaining Traffic, Misc.: Contractor Prepared Maintenance of Traffic Plan (by Type) are either specifically listed below or are to be provided for in accordance with the lump sum bid for Item 614 – Maintaining Traffic (by type). MOT contract items that remain in the Bid Documents other than what is provided for herein will be administered in accordance with the Contract Documents.

<u>Ref No.</u>	Item Ext.	<b>Quantity</b>	Unit Description
395	204E13000	1530 CY	Excavation of Subgrade
396	204E30010	1530 CY	Granular Material, Type B
397	254E01000	90000SY	Pavement Planing, Asphalt Concrete
398	301E46000	75 CY	Asphalt Concrete Base, PG64-22
399	304E20000	815 CY	Aggregate Base
400	407E10000	200 Gal	Tack Coat
401	410E12000	480 CY	Traffic Compacted Surface, Type A or B
402	442E10100	470 CY	Asphalt Concrete Intermediate Course, 19MM, Type (446)
403	448E47020	25 CY	Asphalt Concrete Surface Course, Type 1, PG64-22
404	451E15500	6563 SY	11" Reinforced Concrete Pavement
405	603E96600	510 Ft	Conduit, Bored or Jacked: 15" Type B
406	603E96600	70 Ft	Conduit, Bored or Jacked: 18" Type B
407	603E96600	30 Ft	Conduit, Bored or Jacked: 21" Type B
408	603E96600	15 Ft	Conduit, Bored or Jacked: 24" Type B
409	603E96600	15 Ft	Conduit, Bored or Jacked: 27" Type B
410	604E04500	9 Each	Catch Basin, No. 2-2B
411	604E09000	2 Each	Catch Basin Adjusted to Grade
412	604E31500	4 Each	Manhole, No. 3
413	604E34500	2 Each	Manhole Adjusted to Grade
414	614E11100	2500 Hour	Law Enforcement Officer With Patrol Car
415	614E11300	1 Each	Special – Work Zone Traffic Signal
416	614E11500	36 Mnth	Worksite Traffic Supervisor
417	614E12200	2263 FT	Special – Workzone Guardrail
418	614E12336	22 Each	Workzone Impact Attenuator
419	614E12470	110 Each	Work Zone Speed Limit Sign
420	614E12484	95 Each	Work Zone Increased Penalties Sign
423	614E12756	3 Each	Workzone Crossover Lighting System
424	614E12801	4500 Each	Workzone Raised Pavement Marker, As Per Plan
425	614E13000	345 CY	Asphalt Concrete For Maintaining Traffic
426	614E13300	2510 Each	Barrier Reflector, Type B
427	614E13350	3916 Each	Object Marker, One Way
428	614E18601	144 SNMT	Portable Changeable Message Sign, As Per Plan
429	614E20100	22.32 Mile	Workzone Lane Line, Class I, 642 Paint
430	614E20200	0.08 Mile	Workzone Lane Line, Class I, 740.06
431	614E21100	0.92 Mile	Workzone Center Line, Class I, 642 Paint
432	614E21200	1.47 Mile	Workzone Center Line, Class I, 740.06, Type 1
433	614E22100	69.07 Mile	Workzone Edge Line, Class I, 642 Paint
434	614E22200	3.08 Mile	Workzone Edge Line, Class I, 740.06, Type 1
435	614E23200	61279Ft	Workzone Channelizing Line, Class I, 642 Paint
436	614E23400	3359 Ft	Workzone Channelizing Line, 740.06, Type 1
437	614E24200	14770Ft	Workzone Dotted Line, Class I, 642 Paint
438	614E24400	180 Ft	Workzone Dotted Line, Class I, 740.06, Type 1
439	614E26200	490 Ft	Workzone Stop Line, Class I, 642 Paint

440	614E26400	210 Ft	Workzone Stop Line, Class I, 740.06, Type 1
441	614E27400	210 Ft	Workzone Cross Walk Line, Class I, 642 Paint
442	614E30200	14 Each	Workzone Arrow, Class I, 642 Paint
443	614E30400	17 Each	Workzone Arrow, Class I, 740.06, Type 1
444	614E31400	4 Each	Workzone Word On Pavement, 72", Class I, 740.06, Type 1
445	615E10000	1 LS	Roads For Maintaining Traffic
446	615E20000	83567SY	Pavement For Maintaining Traffic, Class A
447	615E25000	3301 SY	Pavement For Maintaining Traffic, Class B
448	616E10000	3159 MGal	Water
449	622E40020	780 Ft	Portable Concrete Barrier, 32"
450	622E40031	126178Ft	Portable Concrete Barrier, 50", As Per Plan
451	622E40100	5 Each	Portable Concrete Barrier, "Y" Connector
452	630E80300	709 SF	Sign, Temporary Overlay
453	630E89894	33 Each	Removal of Temporary Overlay Sign and Disposal
454	642E00290	2 Mile	Center Line

All work and traffic control devices shall be in accordance with CMS 614 and other applicable portions of the specifications, as well as the Ohio Manual of Uniform Traffic Control Devices. Payment for all labor, equipment and materials shall be included in the lump sum contract price for Item 614, Maintaining Traffic, unless separately itemized in the bid documents.

The Department will make payment for MOT items and quantities listed above at the unit bid prices provide at the time of bid up to the quantity provided for within the Department accepted Contractor Prepared MOT plan, as accepted prior to the commencement of work, the actual quantity used, or up to the contract item quantity provided in the Bid Documents whichever is less. All other compensation to implement the Contractor MOT plan shall be provided for within the lump sum bid for Item 614 – Maintaining Traffic (by type).

#### PRESSURE RELIEF JOINT, TYPE A (CONCRETE ALTERNATIVE)

This item of work shall consist of constructing pressure relief joints for the concrete pavement alternative in accordance with SCD BP-2.3 and the applicable sections of the construction and material specifications. Pressure relief joints shall be provided for at all bridge approaches within the rigid pavement alternate (AA2).

Pressure relief joints, type A are required at the Lost Nation Bridge, as shown in the plan, regardless of the pavement alternative selected.

#### **Revise the following proposal notes:**

<u>PN 090 – 04/18/08 – Work Type Codes and Descriptions</u> the third paragraph shall read: Listed below are the work types for this proposal. In accordance with Ohio law, a bidder must possess work types, and perform work equal to at least forty percent of the total amount of the submitted bid price.

**PN 525 – 08/02/04 – Steel Price Adjustment** under price adjustment criteria and conditions, table B-1, Steel product title, reinforcing steel, all applies with the exception of any steel related to mainline, ramp and side street concrete pavement including tiebars, bolts, dowels and dowel baskets.

<u>PN 104 – 01/07/1998 – Value Engineering Change Proposal Construction Costs & Time</u> No Value Engineering Change Proposals to the Contractor prepared maintenance of traffic plan or the asphalt and concrete pavement related alternate bid item work will be accepted by the Department.

Notice to all Bidders: Bidders are required to provide a responsive Bid, which <u>shall include responsive unit</u> <u>bid prices for each alternate contract item provided for within the Bid Documents</u>. In accordance with section 102.14 of the Department's Construction and Material Specifications Manual non-responsive and ineligible Bid's will be disqualified. The Department will follow section 103.02 of the Department's Construction and Material Specifications Manual and award the contract to the lowest competent and responsible Bidder.

<u>The following sheets are revised:</u> 40, 47-53, 53A, 89-91, 175, 176, 179, 183, 185, 186, 187

Add the Following Plan Sheets: 29A-Q, 56A-56H, 188A

The following sheets are to be disregarded and shall not be used by ODOT or the contractor to perform the work, for the basis of payment or for the settling of disputes or claims. The contractor prepared MOT plans will be the basis of payment for MOT items and will provide for the staged progress of work: 54-56, 58-88, 92-174, 191-197, 201-221, 224-243, 215A

Add/Revise the following standard drawings:

BP-2.1 Dated 07/18/08 BP-2.2 Dated 07/18/08 BP-6.1 Dated 07/28/00



Ohio Department of Transportation 1980 West Broad Street, Columbus, OHIO 43223

#### THE DEPARTMENT USES THE BID EXPRESS WEBSITE, http://www.bidx.com AS AN OFFICIAL REPOSITORY FOR ELECTRONIC BID SUBMITTAL. BIDDERS MUST PREPARE THEIR BIDS ELECTRONICALLY USING EXPEDITE AND SUBMITTED VIA BID EXPRESS.

December 15, 2008

Re: Project 080597 Addendum No. 11 PID No. 13486 LAK-2-3.32 Major Widening Letting: January 21, 2009

Notice to all Bidders and Suppliers to please be advised of the attached Proposal Addendum.

The quantity sheets that show revised items will no longer be attached to the addenda. All Reference Item revisions are reflected in the EBS files (Expedite) for this project.

For internet access to information referenced in this addendum, please see the ODOT web-site at:

ftp://ftp.dot.state.oh.us/pub/Contracts/Attach/LAK-13486/

ADDENDA AND/OR AMENDMENTS MUST BE ACKNOWLEDGED IN THE MISCELLANEOUS SECTION OF THE EXPEDITE (EBS) FILE IN ORDER FOR YOUR BID TO BE CONSIDERED FOR AWARD OF THIS PROJECT. BID EXPRESS WILL NOT ACCEPT BIDS THAT DO NOT HAVE AMENDMENTS INCORPORATED. FAILURE TO INCORPORATE CHANGED QUANTITIES OR ITEMS IN YOUR EXPEDITE (EBS) SUBMISSIONS WILL RESULT IN THE REJECTION OF YOUR BID.

Respectfully,

Tama Clary /m

James G. Beasley Director Department of Transportation

TP:jwt

#### Proposal Addendum For LAK-2-3.32; PID 13486 Project 080597

**Revised Bid Items:** 

Ref.	Item	Quantity	Unit	Description
No.	Number			
3	202E23000	179637	SY	Pavement Removed
21	204E10000	33848	SY	Subgrade Compaction
29	209E60201	151	STA	Linear Grading, As Per Plan
159	448E46061	734	CY	Asphalt Concrete Intermediate Course, Type 1, Under
				Guardrail, PG64-22, As Per Plan
505	202E22901	200	SY	Approach Slabs Removed, As Per Plan
545	202E22901	200	SY	Approach Slabs Removed, As Per Plan
760	202E22901	167	SY	Approach Slabs Removed, As Per Plan
796	202E22901	167	SY	Approach Slabs Removed, As Per Plan
831	202E22901	133	SY	Approach Slabs Removed, As Per Plan
851	202E22901	133	SY	Approach Slabs Removed, As Per Plan
895	202E22901	278	SY	Approach Slabs Removed, As Per Plan
933	606E10810	653	Each	Special – Noise Barrier, Misc.: Concrete Noise Barrier Post and
				Drilled Shaft Foundation
71	671E15020	4000	SY	Erosion Control Mat, Type C
86	603E04400	1626	FT	12" Conduit, Type B
790	524E94404	269	FT	Drilled Shafts, 18" Diameter, Into Bedrock
825	524E94404	194	FT	Drilled Shafts, 18" Diameter, Into Bedrock
2	202E20010	32	Each	Headwall Removed
10	202E35200	3003	FT	Pipe Removed, Over 24"
52	601E32104	78	CY	Rock Channel Protection, Type B With Fabric Filter
54	601E32304	41	CY	Rock Channel Protection, Type D With Fabric Filter
77	602E20000	63	CY	Concrete Masonry
89	603E05900	3312	FT	15" Conduit, Type B
90	603E06100	1991	FT	15" Conduit, Type C
93	603E07400	984	FT	18" Conduit, Type B
98	603E10600	1329	FT	24" Conduit, Type C
100	603E12100	603	FT	27" Conduit, Type C
112	603E96600	4701	FT	Conduit, Bored or Jacked: 15", Type B
123	604E04500	6	Each	Catch Basin, No. 2-2B
447	615E25000	3676	SY	Pavement For Maintaining Traffic, Class B
931	606E10310	122209	SF	Special – Noise Barrier (Absorptive), Over 10' to 14' Height
102	603E16200	67	FT	36" Conduit, Type A, 706.02 (2250 D Load)
104	603E19200	225	FT	42" Conduit, Type A, 706.02
106	603E23800	17	FT	60" Conduit, Type B, 706.02

Added Bid Items.				
Ref. No.	Item Number	Quantity	Unit	Description
1047	254E01000	7572	SY	Pavement Planing, Asphalt Concrete
1048	448E46050	661	CY	Asphalt Concrete Intermediate Course, Type 2, PG64-22
1049	448E47020	472	CY	Asphalt Concrete Surface Course, Type 1, PG64-22
1050	622E40046	3059	FT	Portable Concrete Barrier, 50", Bridge Mounted
1051	509E10000	1553	LB	Epoxy Coated Reinforcing Steel
1052	511E46600	9.5	CY	Class C Concrete, Headwall
1053	603E16600	20	FT	36" Conduit, Type C
1054	603E16200	211	FT	36" Conduit, Type A, 706.02 (1250 D Load)

#### Added Bid Items:

#### **Deleted Items:**

Ref. No.	Item Number	Quantity	Unit	Description
72	671E15030	2000	SY	Erosion Control Mat, Type D
103	603E16400	21	FT	36" Conduit, Type B

#### **Revised Plan Sheets Linked to this Addendum**

Plan sheet 960/1679 Plan sheet 248, 249,250, 251, 252, 253, 254, 255 Plan sheet 261 Plan sheet 1647

#### **Reports are attached to this Addendum**

Asbestos abatement inspection report for parcel 9, dated 3/24/08 for the Building Demolition at 36628 Vine St.

#### Special Provisions are attached to this Addendum

Special Provisions, 404 Permit

#### Spreadsheet linked to this Addendum

Rebar list for headwalls

#### **Revise the following sheets:**

The cross section sheets 714-716 incorrectly show pavement to be removed, please disregard.

**Clarification** on the plan note on sheets 1274 and 1465, Inspection of Existing Structural Steel: The contractor can assume, for repair of cracks, a hole drilling per crack found.

#### **Revise Sheet:**

Revise sheet 1603/1679, under section A-A, the porous backfill is to REMAIN instead of being removed.

Revised plan sheet 1647/1679 to include a 75' x 45' temporary parking pad using 375 SY of Item 615E25000 - Pavement For Maintaining Traffic, Class B (linked to this addendum).

#### Add supplemental Specification:

SS 839 Dated 04/20/07 SS 939 Dated 04/18/08

#### Answers to Prebid Questions:

- Q: The proposal has not provided a pay quantity for Item 254 Pavement Planing 3 inch max. listed in the proposed Typical section sheet 40 of 1679 on SR 306. Please clarify.
- A: The quantity has been corrected in this addendum and revised spread sheets have been posted. ftp://ftp.dot.state.oh.us/pub/Contracts/Attach/LAK-13486/
- Q: General Summary quantities do not provide for Item 202 Pavement Removed on Lost Nation Road Ramps, Lost Nation Road, St. Clair Street, Riverside Commons Drive, SR 91 Ramp A and B, and all acceleration and deceleration lanes throughout the project. Furthermore, the quantities provided for Som Center Road (24,990 SY) on sheet 260 of 1679 would be sufficient to remove all existing pavement within the entire Som Center Road work limits. Similarly the quantities for Item 202 Traffic Island Removed listed on sheet 260 of 1679 for sheet 632 and the blank row beneath it are wrong.
- A: The quantities have been corrected in this addendum and revised spreadsheets have been posted.
- Q: Ref. #3 "Pavement Removed"- Plan Sheet 260 in the roadway subsummary states that there are 24,990 SY on SR 91 (SOM Center Rd.). The breakdown provided on pp 260 is as follows: 3,711 SY on pp 630, 3,206 SY on pp 632, 11,685 SY on pp 634 and 6,388 SY on pp 636, all of which reference the SR 91 plan and profile plan sheets (pp 630 637). A pavement removal takeoff based on cross-hatched sections of the SR 91 cross sections yields quantities that are much less than the given 24,990 SY. The roadway subsummary also does not reference any pavement removal quantities for any of the SR 91 ramps A and B, despite existing typical sections (page 24) that show existing concrete pavement and proposed typical sections (page 19) that show proposed asphalt pavement, as well as office calculations that give subgrade compaction quantities. These office calculations, however, show no pavement removed quantities for either SR 91 or ramps A or B. Can the Department please check and clarify pavement removed quantities on SR 91 and its adjoining ramps and address in an addendum?
- A: Quantities have been corrected in this addendum and revised quantity spreadsheets have been posted.
- Q: The office calculations for S.R. 306 (Reynolds Road) include subgrade compaction and proof rolling quantities for asphalt overlay, which appear to be erroneous.when this work will not be performed. The stations included are the entire length of S.R. 306 within the project limits, Sta. 14+50 30+05. Please verify and update quantities in an addendum.
- A: The quantity has been corrected in addendum #11 and revised spread sheets have been posted.
- Q: Roadway Subsummary pages 258-259 for Lost Nation Rd./St. Clair St./River Side Commons Drive do not include any quantity for Item 202 Pavement Removed. The existing typical sections, however, show 9" to 10" of concrete on Lost Nation Rd. The cross sections for Lost Nation Rd. and St. Clair St. show Item 202 Pavement Removed detailed in these sections. The stations on Lost Nation Rd are from Sta. 46+10 70+22 and the on St. Clair St. from Sta. 114+00 116+00.
- A: The pavement removal quantities for Lost Nation Road and Riverside Commons are shown on the revised pavement calculation spreadsheets. St. Clair St does not have concrete pavement or a concrete base. The cross sections incorrectly show pavement to be removed..

- Q: Sheet 960 of 1679 has missing information at the top of the page. Can you reissue this sheet?
- A: A complete sheet 960 is linked to this addendum.
- Q: Plan sheet 901- existing catch basin is located at station 65+52 RT.- Plan sheet 850 calls for this to be adjusted while plan sheet 709 calls for this to be removed. Is this catch basin to be removed or adjusted? If removed, does existing 18" pipe connecting it to catch basin at 64+98 RT. also get removed or abandoned?
- A: The existing catch basin on Lost Nation Road, at Sta. 65+52, 47.7' Rt. Should be adjusted to grade as shown on the summary sheet 850. It was incorrectly labeled to be removed on the plan and profile sheets, but is correct in the general summary.
- Q: Revised Office Calcs show full depth pavement replacement from station 510+00 to station 514+50. There is no quantity for Item 202 Pavement Removed in this area, nor are there excavation/embankment quantities provided in the cross sections. Is this area to be replaced full depth?
- A: It is assumed that temporary pavement for the LAK-2-3.32 project will be in place in Construction Year #1 from Sta. 510+00 to 520+50. Quantities for temporary pavement and the required earthwork are included plans. The contractor will need to develop maintenance of traffic plans according to addendum #10. The LAK-2-3.32 project will start in reverse order the contractor will start full depth pavement and the normal typical section at Sta. 510+00 and go towards Sta. 276+00. Construction year #2, the LAK-2-7.76 project will begin its full depth pavement section at Sta. 510+00 and move towards Sta. 805+00. The existing pavement and temporary pavement will be removed, and all of the earthwork will be completed under this contract. If the LAK-2-7.76 project is delayed and the LAK-2-3.32 project is completed in the mean time, a detail on sheet 790 has been included for the final pavement elevations. The intent is to only resurface this area (including the temporary pavement area as the base) and place the asphalt wedge course and the surface course.
- Q: The structure drawings showing the phased construction show temporary bridge mounted concrete barrier wall with anchors. There is no bid item for this wall.
- A: A quantity for bridge mounted portable concrete barrier has been added to this addendum.
- Q: The project cover sheet shows the old date for standard drawings BP 2.1 and BP 2.2, please update these to the current standards shown online.
- A: Updated in alternate bid addendum (#10).
- Q: The phased bridges show anchored barrier (i.e. sheet 1277), however there is no bid item for this. Please provide a bid item for 32" PCB, Bridge Mounted.
- A: A bid item for 50" PCB bridge mounted was added to this addendum.
- Q: All Portable Concrete Barrier on SR 2 is shown as 50", As Per Plan, however most of this barrier is to protect the work zone; not face-on-face traffic. Is it ODOT's intention to use 50", APP PCB for all PCB on SR 2?
- A: Yes.
- Q: On sheet 52 under Side Road Maintenance of Traffic for Bridge Construction, the plans call for the using Standard Drawing MT-96.10 on East 361st St Bridge and Erie St Bridge. This standard utilizes temporary signals, however, these signals are not paid under the work zone signals item. Is it ODOT's intent to include this cost in the lump sum item 614, Maintenance of Traffic?
- A: Yes. See the maintaining traffic note on sheet 47/1679 states: Payment for all labor, equipment and materials shall be included in the lump sum contract price for Item 614, Maintaining Traffic, unless separately itemized in the plan.

- Q: The note on sheet 53 under Work Zone Pavement Markings for Winter Months states that states that polyester markings are to be placed between November 1st and April 1st. Please provide bid items for this work.
- A: This item of work has been deleted in the alternate bid addendum (#10).
- Q: Also, under Winter Time Limitations, note 3 states that we are to return traffic to their unshifted position by October 1st and have pavement markings placed by October 15th. This conflicts with the note under WZ Pavement Markings for Winter Months note. Please clarify.
- A: The work zone pavement markings for winter months note has been deleted in the alternate bid addendum (#10), so there is no conflict.
- Q: Sheet 55 states that the remaining portion of Lost Nation Ramp A is to be constructed in Stage 2, Phase C. However, there is no Maintenance of Traffic shown for this work. Can the ramp be closed and detoured in Stage 2 Phase C as it was in Stage 1 Phase B Step 3?
- A: In the alternate bid addendum(#10), the contractor is required to prepared the MOT plans within the guidelines provided.
- Q: Where the concrete pavement widening on Vine St are shown on page 36 of the plans there is a note (Note A) that says "INSTALL A BUTT JOINT PER BP 2.5 & SPEC 255". On standard BP 2.5 we cannont find a reference to a "butt joint". Please clarify if the longitudial joint between the old pavement and the proposed pavement on Vine is to be a Doweled joint as shown on BP 2.5 or a Type D tied joint as shown on BP 2.1?
- A: The joint between the old pavement and proposed pavement on Vine St. should be doweled unless greater than 10' in length. If greater than 10' in length, the joint should be as a type D tied joint as per BP-2.1.
- Q: The approach slab removal bid item quantities for bid items 505,545,760,796,831,851,895 appear to be substantially overstated. Please revise these quantities in an addendum.
- A: The quantities have been corrected in this addendum.
- A: Addendum #8 questions & answers regarding the asbestos abatement mentions an inspection report for parcel 9, dated 3/24/08 for the Building Demolition at 36628 Vine St. We cannot locate this report, please provide.
- A: The inspection report for parcel 9 has been linked to this addendum.
- Q: The general Notes on plan sheets 41 and 42 of 1679 mention that the 404 and 401 permits are attached to the plans. The 401 permit is but the 404 permit is not. Is there a Nationwide permit that is in effect for this project? If so which one?
- A: The Special Provisions, 404 Permit is linked to this addendum.
- Q: The total count for bid item 606E10810 "Noise Barrier Concrete Posts" shown on sheet 970 (qty=653) conflicts with the values shown on sheet no. 247A (qty=673) and in the bid pay schedule (qty=673). Please confirm the correct amount.
- A: The correct quantity is 653, revised in this addendum.
- Q: "Top of Barrier Elevation" and "Barrier Height" are understated by 1 ft for Noise Barrier Bays B168-B171 (ref sheets nos. 985 & 986). As a result, item 606E10310 is understated by 4x 8sq.ft =32 sq.ft on sheets 247A, 970 and Schedule of Pay items. Please review and confirm.
- A: 32 SF has been added to ref# 931 in this addendum.

- Q: Reference 0072 671 Erosion Control Mat, Type D is no longer available for purchase. An Item Master Search on the ODOT website reveals that Erosion Control Mat, Type D has not been bid on other projects for several years as "No matching records found" is the response. Please consider deleting this item.
- A: The item has been deleted, and the Type C quantity has been revised in this addendum. Erosion Control Mat, Type C will be used where Type D was specified.
- Q: The quantities for Bid items 790 & 825 appear to be overstated. It appears that Bid item 790 should be 263 lf and 825 should be 194 LF. Please revise in the next addendum.
- A: The quantities have been corrected in this addendum.
- Q: Plan sheet 901, ref. D-1 shows a 12" B Conduit crossing the pavement on Lost Nation Rd. at station 63+59.5. This sheet shows it on the plan and profile as a 12" pipe. Plan sheet 850 in the subsummary shows this as a 15" B Conduit.
- A: The quantity for D-1 (99' of pipe) should be 12" Conduit, Type B as shown on the plan and profile sheets and cross sections, not the 15" Conduit, Type B shown in the subsummary sheet. It was put into the incorrect column. Corrected in this addendum.
- Q: Plan sheet 874, references D-3, D-4 show a pair of longitudnal pipe runs as 15" B pipe. Drainage subsummary on plan sheet 842 shows both of these as "Conduit Bored or Jacked, 15" Type B". Given that these are longitudnal runs that do not cross pavement, should these be bored or open cut as 15" B? Please review and address in an addendum.
- A: D-3 and D-4 have been revised to 15" Conduit, Type B in this addendum.
- Q: Plan sheet 887, reference D-5 shows a crossover on the westbound side of mainline SR 2. Drainage subsummary shows this as 15" Conduit, Type C. Should this run of pipe be paid for as a bored or jacked pipe? Please review and address in an addendum.
- A: This 83' of pipe has been revised to Conduit Bored or Jacked, 15" Type B in this addendum.
- Q: Plan sheets 858 and 862 call for full-size headwalls to be built for elliptical pipe and box culvert. ODOT Standard Drawings HW-1.1 sheets 1 and 2 give details for round pipe. Please provide additional information for elliptical and box culvert so formwork and reinforcing steel can be taken off.
- A: Headwall quantities will not be appreciably different between elliptical and round pipe. SCD HW-1.1 can be adjusted for elliptical pipe as stated in the notes. The box culvert headwalls are detailed on sheets 865 and 866. Quantities for Item 509 epoxy coated reinforcing steel and Item 511 Class C Concrete have been added to this addendum. A bar list spreadsheet has also been linked to this addendum.
- Q: Plan sheet 967 under method of measurement for the noise walls states "Square feet of noise barrier constructed below ground line shall also not be included for payment". Noise Wall 'C' is a buried wall. The quantities in the plans appear to be the entire SF of wall installed. Please provide the quantity of noise wall above the ground line which will be included for payment.
- A: The quantity has been adjusted in this addendum.
- Q: There are no quantities provided in the General Summary for the large size Conduits Removed as shown on pages 855-862. Please verify and address in an addendum.
- A: Quantities for Pipe Removed, Over 24" and Headwalls Removed have been added to this addendum.

- Q: In regards to Bridge No. LAK-2-0760 L&R, we have the following question. On page 1603/1679, Section A-A shows the existing porous backfill to be removed. However, pages 1604/1679 and 1605/1679 show the limits of the porous backfill with filter fabric ending at approximately 12' LT/RT of CL. Also, Section B-B on page 1606/1679 notes the existing 2'-0" +/- of porous backfill to remain. Will the Department please clarify if the existing porous backfill beyond 12' LT/RT of CL is to be removed or retained.
- A: Section A-A, on sheet 1603, the porous backfill is to REMAIN instead being removed.
- Q: Ref. 103-36" Conduit, Type B: Plan sheet 898 calls this out as Type C conduit and not Type B. Please verify which this should be since this is outside of the paved area. Also, drainage subsummary on plan shhet 850 calls for 1' of 36" B on Lost Nation Rd. sta. 69+42L. Is this a mistake?
- A: 20' of 36" Conduit, Type C was added to this addendum. The 1' of 36", Type B was in the wrong column. 1 each Catch Basin 2-2B was added to this addendum.
- Q: Ref. 102- 36" Conduit, Type A: Plan sheet 860 specifies this pipe for two of the sections to be 706.02, D-2750. Is pipe limited to this or is open to all applicable type A pipes?
- A: The pipe is limited to 706.02, D-2250. The item has been added to this addendum.
- Q: Also, plan sheet 856 shows 211' of this item which crosses the SR 2 mainline at station 450+95. Plan sheet 115 in the MOT plans shows this as being "bored or jacked under pavement". Given that this section of pavement must be built in three phases (1B, 1C, 1D), it will be impossible to properly maintain flow given that an adjacent 36" pipe must also be removed in these three phases. Also note that there is no quantity setup for removal of existing 36" pipe at this location. Please review this and revise in an addendum as there is no bid item for 36" pipe bored or jacked as well as for the adjacent removal.
- A: The proposed pipe has been offset 10' from the existing pipe so the flow can be maintained. See addendum #10 for changes to the MOT.
- Q: Addendum No.9 made significant modifications and additions to the concrete barrier wall items. Please provide the revised Roadway Subsummary sheets for these added items and also the revised items.
- A: Revised plan sheets containing subsummaries are linked to this addendum.
- Q: Ref. 89- 15" Conduit, Type B- Plan sheet 880, refrences D-5 and D-6 call for 15" B in drainage subsummary which is then carried to general summary. Plan sheets 330-332 and 881 show these as both 18" B. Please clarify this plan conflict in an addendum.
- A: The quantities were placed in the incorrect column on the sub-summary sheet, but the drainage plan and profile are correct. 500' was deducted from the 15" conduit, type B quantity and 500' was added to the 18" conduit, type B in this addendum.
- Q: Ref. 89, 12" Conduit, Type B: plan sheet 881, ref. D-15 and plan sheet 884, ref. D-13. Subsummary says these are type B conduits, however cross-sections specify these as type C and both runs are outside of pavement. Please clarify whether type B or type C in an addendum.
- A: The quantities for D-15 on sheet 881, and D-13 on sheet 884 were placed in the incorrect columns. 48' of 15" conduit, type C was added, and 48' of 15" conduit, type B was subtracted in this addendum.
- Q: Ref. 90-15" Conduit, Type C. Plan sheet 886, ref. D-9 calls for 62' of 15"C. Cross-sections on plan sheet 911 show this as 15"B, as a good portion of this run of pipe goes under pavement. Please clarify what this should be in an addendum.
- A: 62' of 15" Conduit, Type B was added, and 62' of 15" Conduit, Type C was subtracted from this

addendum.

- Q: Ref. 93-18" Conduit, Type B: Plan sheet 893, ref. D-2 is called out in the subsummary as 18" B but is shown on plan sheet 893 and cross section sheets 423-425 as 15" B. Please clarify what size this run of pipe is to be in an addendum.
- A: The 15" conduit is correct. 345' of 15" Conduit, Type B was added, and 345' of 18" Conduit, Type B was subtracted from this addendum.
- Q: The typical sections on page 15 and 16 appear to show a raceway in the Type D Barrier. Does all Type D Barrier get raceway, or only the walls with light poles in them? Also, how is this raceway paid for? Please note Detail "A" on page 15 appears to show 3 conduits in the Type D Barrier!
- A: Only one raceway should be located on the backside of the Type D barrier and only where it is required for the lighting design. This also holds true for the center median Type B1 barrier. The raceways are included in the cost of the barrier where required as per details RM-4.3, 4.4, and 4.5, so no quantity changes are required.
- Q: There are conflicts in shoulder with dimensions shown between Rt.2 plans sheets and Ramp Gore detail sheets. Please see sheets 292 and 811 for Ramp I conflicts. Also see sheets 295 and 814 for Ramp O conflicts. Please confirm shoulder widths 8ft or 10ft.
- A: The shoulder detail for mainline SR 2/ Ramp I on Sheet 811 is correct and is as shown below:

STATION	EOP OFFSET	PAVEMENT WIDTH	OUTSIDE SHOULDER WIDTH
344+44.00	49' LT	36'	10'
356+94.00=56+94	74' LT	61'	10'
RAMP I			
57+94 RAMP I	76.79' LT	63.79'	6'

The mainline SR 2/ Ramp O details on Sheet 814 is correct. Similar information for the SR 2/ Ramp O interface is shown below:

STATION	EOP OFFSET	PAVEMENT WIDTH	OUTSIDE SHOULDER WIDTH
487+78.01=187+78.01	61' LT	48'	8'Shoulder + 2' Barrier Offset =10'
RAMP O			
489+56.26	61' LT	48'	8'Shoulder + 2' Offset =10'
490+55.77	49' LT	36'	10'Shoulder + 2' Offset =12'

The conflict between the plan sheets arises from that the SR 2 mainline Sheet 295 calls out the actual shoulder widths to be 8' and 10', as opposed to the overall shoulder widths of 10' and 12' at each location respectively.

- Q: Ref. 98- 24" Conduit, Type C: Plan sheet 532, Ref. D-2 shown in subsummary as 24" C. Details on plan sheet 917 calls this out as 27" C. Please clarify whether 24" or 27" in an addendum.
- A: The 27" Conduit is correct. 148' of 27" Conduit, Type C was added, and 148' of 24" Conduit, Type C was subtracted from this addendum.

### Ohio Department of Transportation 1980 West Broad Street, Columbus, OHIO 43223

#### THE DEPARTMENT USES THE BID EXPRESS WEBSITE, http://www.bidx.com\_AS\_AN OFFICIAL\_REPOSITORY\_FOR\_ELECTRONIC\_BID\_SUBMITTAL. BIDDERS\_MUST PREPARE THEIR\_BIDS\_ELECTRONICALLY\_USING\_EXPEDITE\_AND\_SUBMITTED VIA\_BID\_EXPRESS.

December 16, 2008

Re: Project 080597 Addendum No. 12 PID No. 13486 Lake-SR 2 – 3.32 Major Widening Letting: January 21, 2009

Notice to all Bidders and Suppliers to please be advised of the attached Proposal Addendum.

The quantity sheets that show revised items will no longer be attached to the addenda. All Reference Item revisions are reflected in the EBS files (Expedite) for this project.

#### ADDENDA AND/OR AMENDMENTS MUST BE ACKNOWLEDGED IN THE MISCELLANEOUS SECTION OF THE EXPEDITE (EBS) FILE IN ORDER FOR YOUR BID TO BE CONSIDERED FOR AWARD OF THIS PROJECT. BID EXPRESS WILL NOT ACCEPT BIDS THAT DO NOT HAVE AMENDMENTS INCORPORATED. FAILURE TO INCORPORATE CHANGED QUANTITIES OR ITEMS IN YOUR EXPEDITE (EBS) SUBMISSIONS WILL RESULT IN THE REJECTION OF YOUR BID.

Respectfully,

Tame Clary /m

James G. Beasley Director Department of Transportation

TP:jwt

#### Proposal Addendum For LAK-2-3.32; PID 13486 Project 080597

#### **Revised Bid Items:**

Ref.	Item	Quantity	Unit	Description
No.	Number			
9	202E35100	13402	FT	Pipe Removed, 24" and Under
10	202E35200	1013	FT	Pipe Removed, Over 24"
141	605E11110	100354	FT	6" Shallow Pipe Underdrains With Fabric Wrap
143	605E14020	100478	FT	6" Base Pipe Underdrains With Fabric Wrap
630	513E10281	255271	LB	Structural Steel Members, Level 4, As Per Plan
671	513E10281	255548	LB	Structural Steel Members, Level 4, As Per Plan
712	513E10240	230201	LB	Structural Steel Members, Level 2
743	513E10240	185934	LB	Structural Steel Members, Level 2
89	603E05900	3269	FT	15" Conduit, Type B
90	603E06100	2034	FT	15" Conduit, Type C
1034	888E14060	394559	SY	Portland Cement Concrete Pavement, 11.52" Thick
			AA2	(Non-Reinforced Per 452)

#### Revise Sheet:

Revise typical sections to depict Shallow Pipe Underdrains (30" Deep Typ.) for all of SR-91 and SR-306 Ramps, while SR-91 and SR-306 side roads should depict Base Pipe Underdrains, unless called out in the tables to utilize unclassified underdrains.

Revise the note, on sheet 967/1679, that is titled Wall, Material and Color to delete any reference to motor joint color. This project will not utilize a separate motor joint color. The entire brick panel (highway and resident side), with the exception of the icons, posts and caps, shall be Federal Color #595B-20109 red brick in color. The brick formliner brick size shall be 2 2/3" x 8" for the highway and resident side.

#### Add the following supplemental specification:

888 Portland Cement Concrete Pavement QC/QA Dated 04/18/08

All reference to Item 452 – 11.5" Non-Reinforced Concrete Pavement within the Bid Documents shall be revised to read Item 888 – Portland Cement Concrete Pavement, 11.5" Thick (Non-Reinforced per 452). Supplemental Specification 888 Portland Cement Concrete Pavement QC/QA applies to the mainline and ramp concrete pavement, for the concrete alternative only. CMS 451 or 452 shall apply to side road concrete pavement as detailed in the plans.

PN 420 applies only to Asphalt Concrete Pavement.

#### Answers to Prebid Questions:

- Q: Further to data on sheet 976 please confirm that all steel components of the TL-4 transparent barrier system are coated "buff" after galvanizing.
- A: Per note 8 on sheet 976, only the vertical support posts shall be coated as per item 514, Buff color.
- Q: We would suggest that coating be applied to all areas "exposed to view". Since there is colored acrylic sheeting covering all steel from the top of the precast barrier to the deck, could this portion of the steel framing just be left in a galvanized state?
- A: Per note 8 on sheet 976, only the vertical support posts shall be coated as per item 514, Buff color.
- Q: It is clear on sheet 976, that the non transparent acrylic panels are to be "buff color". Is the GSCC transparent sheet to be clear transparent with black filaments or a tinted color, (smoky brown), with black filaments?
- A: There are no non transparent acrylic panels specified for this project. The transparent panels are not to be tinted, but should contain black filaments.
- Q: On past projects the icon(sign) panels have always been a separate bid item to avoid an escalated cost for the regular noise wall items. Will ODOT consider the sign panels as a separate unit price item?
- A: The icons should be included in the bid price of the concrete panels.
- Q: Please clarify that the icon, (sign)panels is a projected relief from the face of the panel. What is the minimum relief of this projection?
- A: The minimum relief should conform to the manufacturers specifications.
- Q: Please clarify the brick formliner finish on the absorptive surface. Is the brick size 4" x 12" or 6" x 12"?
- A: The "brick" size should be 2-2/3" x 8". See addendum this addendum.
- Q: There is no specific elevation view of the residential side of the panels. Typically the rolled brick pattern has been a large CMU type pattern (8" x 16"). Please calrfive the pattern on the concrete face of the noise wall panels.
- A: The "brick" size should be the same on both sides 2-2/3" x 8".
- Q: Also please clarify the coating for this side. Are the mortar joints to be left natural color? or is the whole panel to be coated one color, (buff)?
- A: The panel color should be Federal color #595B-20109 Red Brick. A separate mortar joint color is not to be utilized on this project. See addendum this addendum.
- Q: On sheet 973 Post and panel caps are detailed and there is a note that integral caps are acceptable as decided by the project engineer. Integral caps cannot have the same dimensions as detailed on sheet 973, (20" wide for panel cap, and 26" wide for post caps)

as typically the maximum overhang on a panel is 2" and on the post there is no overhang, the cap detail is a false joint cast into the top of the post. If the post and panel caps can in fact be integral, please clarify the dimensions that the post and panel caps must be for this alternate.

- A: If the contractor elects, an integral cap may be used. The successful bidder would submit an integral cap detail to the engineer for approval.
- Q: Can manufacturers approved spacing, ie: 24 feet be used on this project or must we adhere to the plans as detailed?
- A: The spacing in the plans must be adhered to.
- Q: For the Bridge mounted TL-4 system, please specify the type and method of coating after all steel components are galvanized. Powder coating has been used in the past but is more expensive than an epoxy-urethane type finish. Please confirm which method is acceptable to ODOT?
- A: Use an epoxy-urethane finish.
- Q: Ref. 89- 15" Conduit, Type B: plan sheet 881, ref. D-11 calls for type B conduit in subsummary but is shown on cross sections as type C conduit. Pipe run is outside the paved area. Please clarify whether this is to be type B or type C in an addendum.
- A: The conduit should be 15", Type C. The quantities have been corrected in addendum #12.



#### THE DEPARTMENT USES THE BID EXPRESS WEBSITE, http://www.bidx.com AS AN OFFICIAL REPOSITORY FOR ELECTRONIC BID SUBMITTAL. BIDDERS MUST PREPARE THEIR BIDS ELECTRONICALLY USING EXPEDITE AND SUBMITTED VIA BID EXPRESS.

December 17, 2008

Re: Project 080597 Addendum No. 13 PID No. 13486 LAK-2-3.32 Major Widening Letting: January 21, 2009

Notice to all Bidders and Suppliers to please be advised of the attached Proposal Addendum.

The quantity sheets that show revised items will no longer be attached to the addenda. All Reference Item revisions are reflected in the EBS files (Expedite) for this project.

For internet access to information referenced in this addendum, please see the ODOT web-site at:

ftp://ftp.dot.state.oh.us/pub/Contracts/Attach/LAK-13486/

ADDENDA AND/OR AMENDMENTS MUST BE ACKNOWLEDGED IN THE MISCELLANEOUS SECTION OF THE EXPEDITE (EBS) FILE IN ORDER FOR YOUR BID TO BE CONSIDERED FOR AWARD OF THIS PROJECT. BID EXPRESS WILL NOT ACCEPT BIDS THAT DO NOT HAVE AMENDMENTS INCORPORATED. FAILURE TO INCORPORATE CHANGED QUANTITIES OR ITEMS IN YOUR EXPEDITE (EBS) SUBMISSIONS WILL RESULT IN THE REJECTION OF YOUR BID.

Respectfully,

ima Clang/m

James G. Beasley Director Department of Transportation

TP:jwt

#### Proposal Addendum For LAK-2-3.32; PID 13486 Project 080597

#### **Revised Bid Items:**

Ref. No.	Item Number	Quantity	Unit	Description
7	202E30800	3900	SY	Traffic Island Removed
913	513E10280	662000	LB	Structural Steel Members, Level 4

#### **Deleted Items:**

Ref. No.	Item Number	Quantity	Unit	Description
912	513E10220	36500	LB	Structural Steel Members, Level 1

The following documents were referenced in Addendum #11. These documents have been attached to this addendum.

#### 1. <u>Reports are attached to this Addendum</u>

Asbestos abatement inspection report for parcel 9, dated 3/24/08 for the Building Demolition at 36628 Vine St.

#### 2. Special Provisions attached to this Addendum

Special Provisions, 404 Permit.

#### Add the following Note:

#### Item 619 Field Office, Type C, As Per Plan

In addition to the requirements of the CMS and the plan note on Sheet 44/1679, provide an additional 25'x25'(minimum) area of floor space to be used as a conference room for project-related meetings, provide a scanner capable of scanning 11x17 documents to a computer and increase the number of all-weather parking spaces to 20 spaces total.

Revise sheets 1421, 1423 and 1424: Delete the "Prebored Grouted Anchor Rod Assembly" note.

#### **REVISED** plan sheet 260 is linked to this addendum.

Answers to Prebid Questions:

- Q: Ref. 7- Traffic Island Removed: included in total plan quantity of 15,656 sq. yd. is a quantity of 7099 s.y. indicated on roadway subsummary sheet 260. Is this a mistaken quantity? Please review this bid item takeoff and address in an addendum.
- A: The quantities have been corrected in this addendum. See revised sheet 260 which is linked to this addendum.
- Q: The underdrain subsummary on plan sheet 926 conflicts with the typical sections for some of the ramps and sideroads. For examples, 1.sr91 ramps and lost nation ramps typ sections call out 18" deep base ud but the subsummary calls out shallow ud which seems wrong 2.sr91 typ sections call out shallow ud with a depth of 18" but the subsummary lists it as base which seems right 3. lost nation

typ sections call out shallow ud with a depth of 18" and the subsummary lists it as shallow which seems like it should be 18" base ud

A: Lost Nation Road Ramps/ Sideroad:

8692 Feet of Shallow Pipe Underdrain should be deducted from the bid contract, and 8692 Feet of Base Pipe Underdrain should be added. The Lost Nation Road/ St. Clair St./ Riverside Commons Typical Sections should show bubble #18 for Base Pipe Underdrains as opposed to #17 Shallow Pipe Underdrains. Quantities have been revised in addendum #12.

SR 91 & SR 306 Ramps/ Sideroads:

The actual depths for each run of underdrain are shown in the underdrain detail sheets. This is the accurate information and what should be used for bidding purposes. The quantities are correct. However, the typical sections are incorrect at some locations – All of SR 91 and SR 306 Ramps should use Shallow Pipe Underdrains (30" Deep Typ.), while SR 91 and SR 306 sideroads should use Base Pipe Underdrains, unless called out in the tables to use unclassified underdrains.

- Q: Reference plan sheet 284 West bound Rt-2 approximate stations 349+75lt. to 357+00 lt. Please provide stations along with widths for the shoulder pavement and tapers. The shoulder widens in this area and typical sections or details do not provide this information. Also, sheet 804 Ramp D Pavement details have conflicting shoulder widths.
- A: Below is the information from Microstation/ Geopak for the shoulder tapers:

STATION	OFFSET	SHOULDER WIDTH
349+74.87	59' LT/ 61' LT	10' Shoulder $+ 2$ 'Barrier Offset $= 12'$
352+18.79	71.17' LT/ 73' LT	20.6' Shoulder + 1.83 Barrier Offset = $22.43'$
356+04.15	75.22' LT/ 78.45' LT	18.33' Shoulder + 1.83' Barrier Offset = $20.16'$
(Begin Approach Slab)		

Q: Bridge LAK-2-0363 Lt & Rt

• Plan sheets 1282 and 1283, rear abutment left and right, show 5 ea steel (bearing) retainers per abutment. Plan sheets 1294 and 1295, rear abutment left and right, show 3 ea steel retainers per abutment. Which is correct, 5 ea or 3 ea per local?

- A: The correct number is 3. The beam locations are indicated correctly on sheet 1299.
- Q: Plan sheets 1283 and 1285, forward abutment right and left, show 5 ea steel (bearing) retainers per abutment. Plan sheets 1296 and 1297, forward abutment left and right, show 3 ea steel retainers per abutment. Which is correct 5 ea or 3 ea per local?
- A: The correct number is 3. The beam locations are indicated correctly on sheet 1299.
- Q: Bridge LAK-2-0400 Lt & Rt

• Plan sheet 1348, upper right hand corner, under "Legend" heading, has two notes. The double asterisk note calls for 6 ea seismic steel retainers per abutment. The triple asterisk note calls for 4 ea bearing retainers per abutment. That totals 10 ea steel retainers per each abutment! These retainers do not show on the abutment drawings, bearing drawings, or abutment diaphragm drawings. Please confirm that 10 ea steel retainers are required at both abutments for both bridges.

- A: The designer confirmed that 10 total at each abutment for both bridges (total=40) is correct.
- Q: Plan sheet 1362, bottom half shows existing girder elevation. It appears ODOT wants 4 ea new bearing stiffeners <sup>3</sup>/<sub>4</sub>" x 7 <sup>3</sup>/<sub>4</sub>" to be field welded at each pier on all existing (left/right) plate girders.

There are no notes to address this. Please confirm if these stiffeners are required.

- A: On sheet 1362 the existing girder elevation calls out the proposed 3/4-inch X 7 3/4-inch bearing stiffeners. The designer confirms that they are required. For clarity the Pier Bearing Stiffener Detail on sheet 1364 should state the following under the detail title "Proposed Girder Shown, Existing Girder Similar"
- Q: Where is this steel paid?
- A: The additional quantity for the bearing stiffeners is 3956 LBS for the Lt. structure and 3956 lbs for the Rt. structure to be included under Item 513E10281 Structural Steel Members, Level 4, As Per Plan. See addendum #12.
- Q: Where is the existing paint removal and touch-up paid for these ocations?
- A: This is paid for under Item 514E00050 Surface Preparation of Existing Structural Steel; 514E00056 Field Painting of Existing Structural Steel, Prime Coat; 514E00060 Field Painting Structural Steel, Intermediate Coat; and 514E00066 Field Painting Structural Steel, Finish Coat. See note 5 on sheets 1362 & 1364.
- Q: Bridge LAK-2-0486 Lt & Rt

• Plan sheet 1421 (eastbound piers 1 and 2), and plan sheets 1423 and 1424 (westbound pier 1 and pier 2) have a note in plan view stating "prebored grouted anchor rod assembly (typ). See sheet 30/70 for details." Plan sheet 30/70 has no such detail and pier bearing detail on plan sheet 1449 shows no anchoring requirements. Please confirm that the referenced note does not apply to these bridges.

- A: The notes in question on plan sheets 1421, 1423, and 1424 do not apply and should have been deleted. See addendum #13.
- Q: Structural steel, level 2 (left and right bridges) plan quantity appears low. The takeoff weight appears to include WF beams, splices and connection plates, only. Adding type 3 crossframes to both bridges, will make plan weight overrun. Please check left and right bridge steel weights.
- A: It appears that your observation is correct. The quantities have been revised in addendum #12:

a)LAK-2-0486L (Westbound): Item 51310240 Structural Steel Members, Level 2 = 230,201 LBS

b)LAK-2-0486R (Eastbound): Item 51310240 Structural Steel Members, Level 2 = 185,934 LBS

Q: Bridge LAK-2-0530 Lt & Rt

• Plan sheet 1514 (rear abutment-drilled shaft spiral) SP 402 appear to weigh 107.5 lb/ea. On plan sheet 1515 (forward abutment drilled shaft spiral) SP 402 appear to weigh 34.25 lb/ea. Both rear and forward abutment drilled shaft spirals, SP 402 are identical in size/shape and should be the same weight. Please correct the appropriate plan sheet "table" weight.

Plan sheet 1514 (rear abutment-drilled shaft spiral) SP 403 appears to weigh 203.2 lb/ea. On plan sheet 1515 (forward abutment drilled shaft spiral) SP 403 appears to weigh 64.7 lb/ea. Both rear and forward abutment drilled shaft spirals, SP 403 are identical in size/shape and should be the same weight. Please correct the appropriate plan sheet "table" weight.

- A: The revised weight for SP402 is 1737 lbs and SP403 is 4173lbs, on sheet 1514. The revised weight for SP402 is 1853lbs and SP403 is 3734lbs on sheet 1515. This reinforcing is included with respective Item 524 for payment.
- Q: Bridge LAK-2-0542
  - Plan sheet 1551 lists two structural steel estimated quantity pay items: the first is level 1 and

the second is level 4. There are no general notes or steel notes defining what is to be included under each pay item. Level 4 appears to include girders, stiffeners and splice plates. Level 1 appears to cover intermediate crossframes. Please confirm that it is the designer's intent to split these items as outlined above.

- A: Item 513 Structural Steel Members, Level 1 has been deleted, and Item 513 Structural Steel Members, Level 4 has been increased to 662,000 lbs in addendum #13.
- Q: Plan sheet 1576, web splice detail shows the bottom flange "outside" plate as 5/8" x 12" and 3' 7' long and the bottom flange "inside" plates as  $\frac{1}{2}$ " x 5" and 3' 7' long. Since the bottom flange is 24" wide on both sides of the splice, we believe the bottom flange outside plate should be 5/8" x 24" and 3' 7' long and the bottom flange "inside" plates should be 1/2" x 11" and 3' 7' long. Please review and advise what is required at the bottom flange.
- A: On sheet 1576, the inside bottom flange splice plates should be 1/2" x 11" x 3'-7". The outside flange splice plates should be 5/8" x 24" x 3'-7". No quantity changes are required.
- Q: Please confirm that the ATT utility work (ls) includes 20 ea steel bottom chord supports not paid as part of level 1 steel.
- A: Confirmed.
- Q: Please confirm that the Dominion utility work (ls) includes 6 ea steel bottom chord supports not paid as part of level 1 steel.
- A: Confirmed.
- Q: Bridge LAK-2-0760 Lt & Rt

• Plan sheet 1607 and 1609 show 1 ea intermediate diaphragm for each structure (WB and EB). Can these diaphragms be galvanized steel MC 18 x 42.7, or must they be cast is place concrete intermediate diaphragms?

A: The diagrams shall be cast-in-place concrete as shown in the plans.

Q: Addendum No. 1 – Added Bid Items

ODOT added 97 ea pile splices in addendum no. 1 between the following bridges:

Bridge	Piles	Splices	Percent
0363 L/R	72 ea	24 ea	33.3
0400 L/R	44 ea	38 ea	26.4
0486 L/R	95 ea	10 ea	10.5
0542	112 ea	25 ea	22.3

Since none of the bridges require splices due to order lengths, what is ODOT's intent here? We don't see why any of these would be performed. Based on soil borings piles will probably underdrive!

- A: These were added as a contingency quantity as directed by FHWA.
- Q: There is no quantity for subgrade compaction or 12" cement stabilization for Vine St., Lakeland Blvd. or Riverside Commons Drive in the latest version of the office calculations (posted 12/2/08). Is this accurate?
- A: A revised spreadsheet has been posted on the Department's Question & Answer board today (December 17, 2008.) There are quantities for subgrade compaction for Vine St., Lakeland Blvd. and Riverside Commons on the spreadsheet. Since cement stabilization is not specified for these roads, there is no quantity for it.
- Q: Ref. 10- Pipe Removed, over 24": Plan sheets 881 and 882 call for 870' of 24" pipe to be removed as part of this item, which in the subsummary sheet 840 is listed as "Pipe Removed, 24" and over". This

appears to be under the wrong bid item. Please review and revise quantities for ref. 9 and ref. 10 in addendum.

- A: The item description was incorrect. 870 FT was subtracted from Ref. No. 10 and 870 was added to ref. No. 9 in addendum #12.
- Q: The bid quantity for Subgrade Compaction per Addendum No. 6 is 35,411 SY. However, the sum of the Subgrade Compaction quantities from the latest version of the pavement office calculations (posted 12/2/08) is 27,456 SY. Please clarify.
- A: A revised spreadsheet has been posted on the Department's Question & Answer board today (December 17, 2008.) According to the latest spreadsheet, the subgrade compaction quantity is 33,848 SY which was reflected in addendum #11.
- Q: In the latest version of the roadway office calculations (posted 12/2/08) the Vine Street & associated ramps quantities from the "copy13468GC200" spreadsheet differ from the summary in the "ARCADIS Revised PAVEMENT-CALCS\_11-21-08" spreadsheet. Please clarify.
- A: A revised spreadsheet has been posted on the Department's Question & Answer board today (December 17, 2008.)
- Q: Ref. 52- Rock Channel Protection, Type B, with Filter: Quantities on plan sheets 855 through 858 appear to be understated when actually taking off areas that are designated. Please review, revise, and address these volumes in an addendum.
- A: In general, the quantity that is dimensioned, or called out in the plan/profile view should be used, as opposed to what is geometrically shown in the plan view. That being said, there were some small quantity changes reflected in addendum #11.

# **SPECIAL PROVISIONS**

## FOR ASBESTOS INSPECTION REPORTS

# ГУК-5-3'35

### EFFECTIVE DATES:

VZBEZLOZ INZbECLION KEPORT FOR PARCEL 9, DATED: 03/24/08

15 pages including this cover sheet

# ODOT OFFICE OF REAL ESTATE

### Interoffice Communication

"dinerantra desuoral villauo"

:Xa	Leon Bell, Realty Specialist
FROM:	Joan K. Short, Projects Manager, NE Region
<b>VILLENLION:</b>	Dan Dougherty, Real Estate Administrator
:OT	Bonnie Teeuwen, Deputy Director, District 12
DATE:	March 28, 2008

noitsoftitoN lavome Removal Notification

LAK 2 - 3.32

The referenced structure has been inspected for asbestos and is referred to District for proposed asbestos abatement and building removal. (See attached)

Parcel 9 WL, EL

**510 13486** 

NOTE: Have the Demolition or Abatement Contractor notify the Local Air Pollution Control Board (EPA) ten (10) working days prior to demolition or abatement.

NOTE: The Demolition Contractor should be aware of the Ohio EPA fee assessment for asbestos for any structure demo'd.

NOTE: The Demolition Contractor should keep all debris properly wet during demolition, according to standards.

NOTE: This structure is for demolition or abatement only, not burning.

JKS:FB

**SUBJECT:** 

Attachments

c: Short/Everett/Carpenter/Lorello/Dougherty/PM File/Reading File



3/28/08

	Eastlake, Ohio	36628 Vine Street	Parcel 9
61D 13480	LAK 2 - 3.32	usbection Survey	I sotsədaA

The highway, demolition or abatement contractor is required to file an OEPA Demolition and  $\langle or Renovation Notification$  at least ten (10) working days prior to the commencement of any demolition or construction activity and pay any and all applicable permit fees.

Should the highway or demolition contractor encounter any ACM during demolition or construction activity, they should cease all work and immediately notify the OEPA and ODOT.

The bulk samples were taken to the following lab by this writer:

Pinnacle Environmental Consultants, Inc. 2000 Prestige Park Hurricane, WV 25526

Results of the bulk sample Lab Analysis reports attached herein.

This writer is of the opinion that all observable ACM has been identified. Material concealed from view is not included in the scope of this survey. In addition, the following items may be located on the above properties are not within the scope of this survey:

Unaccessible areas of the structure Any buried or subterranean debris or piping Miscellaneous fire prevention accessories, such as fire hoses or steel fire door insulting cores.

#### ACM refers to Asbestos Containing Material & PLM refers to Lab test used

All required ACM should be abated on the listed parcels and Asbestos Bid Specifications should include the following:

- 1. An EPA Notification will be required for each structure
- Contractor will inspect and abate as necessary all heating vents, ducts, piping & boiler units in each structure.
- 3. All quantities are considered as reasonable estimates and contractor will check square footage, linear footage or cubic feet necessary and abate.
- 4. Abatement of plaster or outside (transite) siding may require the removal plasterboard, paneling, ceiling tile (panels), carpet or insulation. This material should be disposed of as
- required or in proper containers. No loose insulating material to be left on outside walls. 5. Structures are secured but will be the responsibility of the contractor to secure there business equipment. All electrical and water have been disconnected.

(Refer to asbestos site & photo sheets & lab

#### ACM that should be abated as listed: analysis attached)

#### Parcel 9

2 sty brick/frame commercial building w/ basement (converted house to commercial)

40 yrs old 1342 SF

ACM (Plaster/Plasterboard) located in all walls and ceilings is 2 - 3 % Chrysotile (PLM) point count varies .25 - .75 %. Assume all plaster/plasterboard, insulation, any ceiling tile or panels or any will require the removal of all plaster & plasterboard, insulation, any ceiling tile or panels or any building material necessary to be removed in order for the abatement. This ACM (plaster/plasterboard ) is Friable in poor condition, damaged.

Approx 5000 SF +/- ABATE

ACM (window glaze/caulk) building windows, PLM is 3%, point count 2.25% Chrysotile. Assume all window glaze ACM and recommend to abate. This will probably require the removal of all window casings or any related building material to abate ACM. This ACM is CAT II non friable but will become friable during demolition. This ACM (window glaze/caulk) will be friable in fair condition, damaged.

Approx 200 LF +/- ABATE

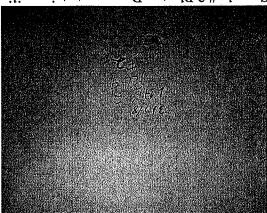
ACM (vinyl floor tile/linoleum & mastic) this vinyl floor tile/linoleum& mastic is located on the I<sup>st</sup> and 2<sup>nd</sup> floors and steps. This ACM (vinyl floor tile/linoleum & mastic) is 3% Chrysotile (PLM) assume all ACM. This ACM is CAT I - Non Friable in fair condition, damaged. Recommend to abate all floors & steps.

Approx 1300 SF +/- ABATE

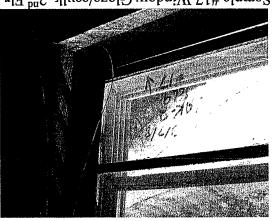
Recommend that the Asbestos Abatement Company review, site inspect structure prior to bidding to determine his requirements for the abatement of ACM.

Leon Bell ODOT (Aspestos Evaluation Specialist) Certification # 32976

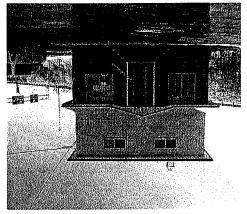
## LAK 2 - 3.32Parcel 9PID 1348636628 Vine Street, Eastlake, Ohio



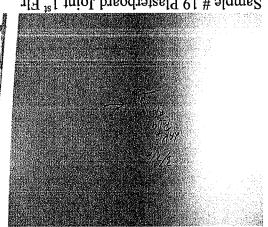
Sample # 2 Plaster, Basement stairs ceiling 2% Chry (PLM) PC .50% Assume ACM

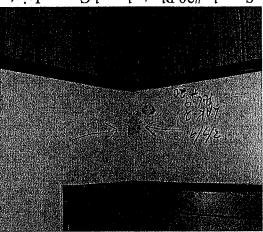


Sample #17 Window Glaze/caulk, 2<sup>nd</sup> Flr. Hallway 3% Chry (PLM) PC 2.25% ACM

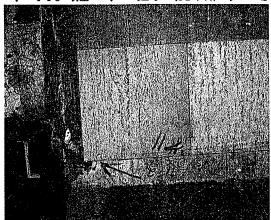


2 sty. Brick/frame commercial house w/ basement & asphalt shingle roof





Sample #20 Plasterboard Corner Joint 2<sup>nd</sup> Flr. 3%Chry (PLM) PC .50 Assume ACM



Sample #11 Vinyl Flooring Tile&Mastic 3% Chry (PLM) Assume all ACM

Asbestos Site Inspection 3-7-8

Commercial building is a converted house used for business offices Building is 2 sty brick frame w/basement 40 yrs. old 1342 SF

ACM (Plaster/Plasterboard) located in all walls and ceilings is 2 – 3% Chrysotile (PLM) point count varies .25 -.75%. Assume all plaster/plasterboard ACM and recommend abating. This will require the removal of all plaster and plasterboard, insulation, any ceiling tile or panels or any building material necessary to be removed in order for the abatement. This ACM (plaster/plasterboard) is Friable in poor condition, damaged. ABATE

ACM (window glaze/caulk) located in the building windows, PLM is 3%, and point count is 2.25% Chrysotile. Assume all window glaze/caulk ACM and recommend to abate. This will probably require the removal of all window casings or any related building material to abate ACM. This ACM is CAT II non friable but will become friable during demolition. This ACM (window glaze/caulk) will be friable in fair condition, damaged.

Approx 200 LF +/- ABATE

ACM (vinyl floor tile/linoleum & mastic) is located on the  $l^{st}$  and  $2^{nd}$  floors and steps. This ACM (vinyl floor tile/linoleum & mastic) is 3% Chrysotile (PLM) assume all ACM. This ACM is CAT I – Non Friable in fair condition, damaged.

Approx 1300 SF +/- ABATE

Recommend that the Asbestos Abatement Company review and site inspect structure prior to bidding to determine there requirements for the abatement of the ACM.

Leon Bell ODOT (Asbestos Evaluation Specialist) Certification # 32976

9109-116-025 mil ... NS 6181-981-025 mil ... NS 0611-891-008 \* 1681-8 ALLO NOLLY! VALIZED BI: :03BQ RECEIVED BY: ĽĽ TTEON BETT SISTING RETHOD: tejed. TRANSPORTED BY: : . Noz I DRITANUS LABORATORY ID#: 193BQ SPECIAL NOTES: THUOD THIOS = 29 estrond = ROMA berylend for = AN ACT = Actinolite ANTH = Anthophylitic ARREVIATIONS: ND = Not Detected CHRI = Chrysotile TREM = Tremolite CROC = Crotiolite D 9/0 t BAG H NEARS -2 mg F/C - N- DEFICE NIAL . 75VU 1 M, I'M HE HAVING CE! · bni 05 9/2 7) R Ħ 帅 200 chay JUM 22 60 Į Ø . # 77#07 21-8 CIN U. 3 4 Frit 570041 3 Pochay + MASTIC ゆけん // # Jumit ٥. 01. 5/125 UN 12 u U Trade He Sinkweit toyo efer. 25\* ·71 6₽ K .u 570071 301-1-8# an 8|-| **X**5| \* Though C.C. אא שרן 52. 7/ P •1 Thorpole E 77 VCI | ET 96 100 200 103 SUYA 1.40 3012 Sme đΝ 1 1 37 art 15 254 1 200 NO V MALLENTLE dial 4 ÿ, W/ T aN 11 2 % alier BALEMENT STRIFLE न्ट .9.9 ! 64 И tini 13 ΛN \* STIOSER EVI SAMPLE DESCRIPTION AND LOCATION SYMPLE NONBER 2/01 ONO. BARY1383 98481 OL 22823 7NIN 88998 xoqunn qo \_:paidiua 4. 22'2-ADDLSAD ANV TVI ATAG SAMPLE

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Page 2 of 5

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Page 3 of 5

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NCOROKIN		<b>M</b> ino	PECLAR#
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-	Tina Long	:vd bəzylsnA
ess otherwise requested. 9 materials. Multi-layered 9t be reproduced, except in	npises will be held for sixty (60) days unl sment as to the contents of surrounding eported separately. This report shall no	Analytical Method: Polarized light microscopy using disper demonstrate the absence of asbestos in floor tiles. All sam This report relates only to items tested and makes no state material which have distinct and separable layers shall be re full, without written permission. The results of this report govern
Filler/Binder: 100%	Others: 0%	Cellulose: 0% Fiber Glass: 0%
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etidW	irway Center Ceiling	08WB-07120b LAK2PCL9#22 2nd Fir Sta
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COLOR		RE: Parcel 9 - 36628 Vine Street, East Lake, OH

Page 5 of 5

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Page 1 of 2

RE: Parcel 9 - 36628 Vine Street, East Lake, OH

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eqyT	% Asbestos	edĂ <u>L</u> SISĂŢ	% Asbestos 80189dsA	SEO FEO	ID# GTIENL
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adkT Avaly version	sotsedsA %	ədA <u>ı</u> MTASIS	MAMJ9 sotsedzA %		
Chrysotile	5.25 %	Chrysotile	% £	31170-8W80	
edyT Alexandre	% Asbestos	edA <u>l</u>	% Asbestos	BEQ #BAJ	ID.# CRIENT

Analytical Method Reference: Perkins, RL, 1969. "Point Counting Techniques for Friable Aspestos Containing Materials", Research Triangle Institute, Microscope, 1990, pp. 29-39. The sample(s) above were submitted for Point Count Verification analysis. NESHAP Standard, 40 CFR Part 61, Section 141, states that it asbestos is identified by Polarized Light Microscopy and the estimated quanty is and treat the material as asbestos containing, or 2.) require verification of the following: 1.) Elect to assume the amount to be greater than 1% and treat the material as asbestos containing, or 2.) require verification of the quantity by point counting. TRACE is defined as no asbestos fibers being detected during the point count analysis. The results of this report should not be used as an endorsement for AVLAP or any other government agency.

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Analyzed by:

Casey Brown

## **SPECIAL PROVISIONS**

### 404 PERMIT- WATERWAY PERMITS

CRS: LAK-2-3.32 PID: 13486

 404 INDIVIDUAL PERMIT FROM THE US ARMY CORPS OF ENGINEERS. (Permit No. 2006-2200-CHA, EFFECTIVE 10/29/2008, EXPIRES ON 12/31/2013)



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

October 29, 2008

Operations and Readiness Division Regulatory Branch 2006-2200-CHA (Chagrin River) LAK-2-3.32, PID: 13486

Mr. James G. Beasley Ohio Department of Transportation 1980 West Broad Street Columbus, Ohio 43223

Dear Mr. Beasley:

Enclosed is one original and one copy of Department of the Army (DA) Permit Number 2007-342-GMR, authorizing the placement of fill material into waters of the United States for activities associated with the State Route (SR) 2 reconstruction project located between SR 91 on the west and SR 44 on the east, near the municipalities of Eastlake, Willoughby and Mentor in Lake County, Ohio.

Work associated with the proposed project would involve the permanent placement of approximately 4,285 cubic yards of fill material into 3,547 linear feet of fourteen jurisdictional streams and approximately 32,295 cubic yards of fill material into 3.53 acres of six jurisdictional wetlands for the construction of a fourth lane in both east and west bound directions of SR 2 between SR 91 and SR 640 (Vine Street), and between SR 44 N (Heisley Road) and SR 44 S; a third lane in both east and west bound directions of SR 2 between SR 640 and SR 44 N. In addition, the project also consists of reconfiguration of seven interchanges along SR 2 (SR 91, SR 640, Lost Nation Road, SR 306, SR 615, SR 44 north and SR 44 south), widening the existing bridge over Newell Creek (Stream 10) and the Chagrin River, replacement of the existing bridge over Heisley Creek (Stream 15), construction of a new 37-foot wide bridge over the Chagrin River for Ramp D, replacement of existing culverts, and patching and waterproofing of concrete slab structures within this section of the SR 2 corridor. The project would also involve the temporary placement of approximately 444 cubic yards of fill material into 0.07 acre of the Chagrin River for construction access.

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 are found 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.

If you have any questions regarding the information in this letter or the enclosures, please contact Peter Clingan at 614-692-4654.

Sineerely,

Rebecca A. Rutherford / Chief, North Regulatory Section

Enclosures

Copies Furnished w/ enclosures

Mr. Arthur Coleman Ohio Environmental Protection Agency Division of Surface Water Post Office Box 1049 Columbus, Ohio 43215

Mr. Mark Epstein Ohio Historic Preservation Office 567 East Hudson Street Columbus, Ohio 43221-1130

Ms. Mary Knapp U.S. Fish and Wildlife Service 6950 Americana Parkway, Suite H Reynoldsburg, Ohio 43068-4127

Mr. Michael Pettegrew Office of Environmental Services Ohio Department of Transportation Post Office Box 899 Columbus, Ohio 43216-0899 Mr. Ric Queen Ohio Environmental Protection Agency Division of Surface Water Post Office Box 1049 Columbus, Ohio 43215

Mr. Donald Rostofer Office of Environmental Services Ohio Department of Transportation Post Office Box 899 Columbus, Ohio 43216-0899

Mr. Dave Schulenburg U.S. Environmental Protection Agency Region V, WQW-16-J 77 West Jackson Street Chicago, Illinois 60604-3590

#### DEPARTMENT OF THE ARMY PERMIT

#### Permittee: Ohio Department of Transportation

#### Permit No: 2006-2200-CHA (Chagrin 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: This permit authorizes the placement of fill material for activities associated with the State Route (SR) 2 reconstruction project located between SR 91 on the west and SR 44 on the east, near the municipalities of Eastlake, Willoughby and Mentor in Lake County, Ohio.

Work associated with the proposed project would involve the permanent placement of approximately 4,285 cubic yards of fill material into 3,547 linear feet of fourteen jurisdictional streams and approximately 32,295 cubic yards of fill material into 3.53 acres of six jurisdictional wetlands for the construction of a fourth lane in both east and west bound directions of SR 2 between SR 91 and SR 640 (Vine Street), and between SR 44 N (Heisley Road) and SR 44 S; a third lane in both east and west bound directions of SR 2 between SR 540 and SR 44 N. In addition, the project also consists of reconfiguration of seven interchanges along SR 2 (SR 91, SR 640, Lost Nation Road, SR 306, SR 615, SR 44 north and SR 44 south), widening the existing bridges over Newell Creek (Stream 10) and the Chagrin River, replacement of the existing bridge over Heisley Creek (Stream 15), construction of a new 37-foot wide bridge over the Chagrin River for Ramp D, replacement of existing culverts, and patching and waterproofing of concrete slab structures within this section of the SR 2 corridor. The project would also involve the temporary placement of approximately 444 cubic yards of fill material into 0.07 acre of the Chagrin River for construction access.

Project Location: The project is located in fourteen jurisdictional streams and six jurisdictional wetlands along State Route (SR) 2 between SR 91 on the west and SR 44 on the east, near the municipalities of Eastlake, Willoughby and Mentor in Lake County, Ohio.

Permit Conditions:

General Conditions:

- The time limit for completing the work authorized ends on <u>December 31, 2013</u>. 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.
- 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 a separate page and are titled "Special Conditions for the Authorization Issued to Ohio Department of Transportation 2006-2200-CHA, LAK-2-3.32, PID: 13486."

#### Further Information:

- 1. Congressional Authorities: You have been authorized to undertake the activity described above pursuant to:
  - (x) Section 10 of the Rivers and Harbors Act of 1899 (33 U.S.C. 403).
  - (x) Section 404 of the Clean Water Act (33 U.S.C. 1344).
  - () 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.

(DATE) comes effective when the Federal official, designated to act for the Secretary of the Army, has signed below. DATE) (DISTRICT ENGINEER) DANA R. HURST Colonel, Corps of Engineers District Engineer

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)

EDITION OF SEP 82 IS OBSOLETE

#### Special Conditions for the Authorization Issued to Ohio Department of Transportation 2006-2200-CHA LAK-2-3.32, PID: 13486 Page 1(2)

1. Work shall be done in accordance with the attached plans labeled 2006-2200-CHA, LAK-2-3.32, PID: 13486, sheets 1-50.

2. All conditions attached to or contained within the Ohio Environmental Protection Agency's Water Quality Certification dated August 12, 2008, are hereby incorporated by reference as being special conditions of this permit.

3. To compensate for 3.53 acres of unavoidable wetland impacts, the permittee shall purchase a total of 5.4 acres of wetland credit from the Trumbull Creek Wetland Mitigation Bank located on SR 166 along the Ashtabula-Geauga County line and provide this office with an updated balance sheet.

4. To compensate for 3,547 linear feet of unavoidable stream impacts, the applicant proposes to place a 200-foot easement (100 feet on each side) along 5,321 linear feet of stream on a 155-acre parcel in northwest Trumbull County identified as Groves Woods, which includes a portion of Garden Creek as well as Class II and Class III primary headwater tributaries. The permitte shall provide this office with a copy of the conservation easement within one year from the date of issuance of a permit.

5. All temporary fill material must be removed to an upland location at the completion of construction activities and the river bottom restored to pre-construction contours to the maximum extent practicable.

6. Appropriate site specific best management practices (BMP) for sediment and erosion control will be fully implemented during construction activities at the site. The BMPs include, but are not limited to, the utilization of silt fences, straw bales, check dams, mulching and seeding.

7. Prior to the initiation of any construction activities on bridges, including the removal of any bridge structures, the underside of each bridge must be carefully examined for the presence of bats, especially between April 1 and September 30. If any bats are found roosting on the underside of the bridge, you will immediately contact the United States Fish and Wildlife Service, Reynoldsburg Field Office at (614) 469-6923.

#### 2006-2200-CHA LAK-2-3.32, PID: 13486 Page 2(2)

8. Section 7 obligations under the Federal Endangered Species Act must be reconsidered if new information revealing impacts of the proposed project that may affect federally listed species or critical habitat in a manner not previously considered, the project is subsequently modified to include actions which were not considered during Section 7 consultation with the USFWS or new species are listed or critical habitat designated might be affected by the proposed project.

9. In the event of an inadvertent discovery of archaeological or cultural resources, including suspected human remains, during construction activities on site, you shall immediately cease all work and contact this office at 614-692-4654 and the Ohio Historic Preservation Office at 614-298-2000. We will initiate the Federal, state, and Native American 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. If such events occur, you shall ensure work on site is not reinitiated until you have received notification in writing from this office that obligations under Section 106 or the National Historic Preservation Act are fulfilled and on-site disturbance may occur. In the event that human remains are discovered, you shall also contact the Lake County Sheriff's office at 440-350-5620.

10. The permittee must obtain any required flood hazard area development permits prior to construction.

11. The permittee is solely responsible for insuring that all activities are performed in compliance with all permit conditions.

12. The permittee is responsible for ensuring that all contractors and/or workers executing the activity(s) authorized by this permit have knowledge of the terms and conditions of the authorization and that a copy of the permit document with attached special conditions and site development plan is kept at the site during construction.

13. If any changes in the location and/or plans, or proposed impacts of the project are found necessary, the permittee must submit written information concerning the proposed modification(s) to this office for review and evaluation.

NOTIFICATION OF ADMINISTRATIVE APPEAL OPTIONS AND PROCESS AND REQUEST FOR APPEAL

State and the Contract of the						
Applic	cant: Ohio Department of Transportation	File Number:2006-2200-CHA	Date: 10/29/08			
Attack	See Section below					
Х	X INITIAL PROFFERED PERMIT (Standard Permit or Letter of permission)					
	PROFFERED PERMIT (Standard Permit or Letter of permission)					
	PERMIT DENIAL	C				
	APPROVED JURISDICTIONAL DETERMINA	D				
	PRELIMINARY JURISDICTIONAL DETERM	IINATION	E			

SECTION 1:- The following identifies your rights and options regarding an administrative appeal of the above decision. Additional information may be found at http://usace.army.mil/inet/functions/cw/cecwo/reg or Corps regulations at 33 CFR Part 331.

#### A: INITIAL PROFFERED PERMIT: You may accept or object to the permit.

- ACCEPT: If you received a Standard Permit, you may sign the permit document and return it to the district engineer for final
  authorization. If you received a Letter of Permission (LOP), you may accept the LOP and your work is authorized. Your
  signature on the Standard Permit or acceptance of the LOP means that you accept the permit in its entirety, and waive all rights
  to appeal the permit, including its terms and conditions, and approved jurisdictional determinations associated with the permit.
- OBJECT: If you object to the permit (Standard or LOP) because of certain terms and conditions therein, you may request that
  the permit be modified accordingly. You must complete Section II of this form and return the form to the district engineer.
  Your objections must be received by the district engineer within 60 days of the date of this notice, or you will forfeit your right
  to appeal the permit in the future. Upon receipt of your letter, the district engineer will evaluate your objections, and may: (a)
  modify the permit to address all of your concerns, (b) modify the permit to address some of your objections, or (c) not modify
  the permit having determined that the permit should be issued as previously written. After evaluating your objections, the
  district engineer will send you a proffered permit for your reconsideration, as indicated in Section B below.

#### B: PROFFERED PERMIT: You may accept or appeal the permit

- ACCEPT: If you received a Standard Permit, you may sign the permit document and return it to the district engineer for final
  authorization. If you received a Letter of Permission (LOP), you may accept the LOP and your work is authorized. Your
  signature on the Standard Permit or acceptance of the LOP means that you accept the permit in its entirety, and waive all rights
  to appeal the permit, including its terms and conditions, and approved jurisdictional determinations associated with the permit.
- APPEAL: If you choose to decline the proffered permit (Standard or LOP) because of certain terms and conditions therein, you may appeal the declined permit under the Corps of Engineers Administrative Appeal Process by completing Section II of this form and sending the form to the division engineer. This form must be received by the division engineer within 60 days of the date of this notice.

C: PERMIT DENIAL: You may appeal the denial of a permit under the Corps of Engineers Administrative Appeal Process by completing Section II of this form and sending the form to the division engineer. This form must be received by the division engineer within 60 days of the date of this notice.

D: APPROVED JURISDICTIONAL DETERMINATION: You may accept or appeal the approved JD or provide new information.

- ACCEPT: You do not need to notify the Corps to accept an approved JD. Failure to notify the Corps within 60 days of the date of this notice, means that you accept the approved JD in its entirety, and waive all rights to appeal the approved JD.
- APPEAL: If you disagree with the approved JD, you may appeal the approved JD under the Corps of Engineers Administrative Appeal Process by completing Section II of this form and sending the form to the division engineer. This form must be received by the division engineer within 60 days of the date of this notice.

E: PRELIMINARY JURISDICTIONAL DETERMINATION: You do not need to respond to the Corps regarding the preliminary JD. The Preliminary JD is not appealable. If you wish, you may request an approved JD (which may be appealed), by contacting the Corps district for further instruction. Also you may provide new information for further consideration by the Corps to reevaluate the JD.

SECTION II - REQUEST FOR APPEAL or OBJECT	ONS TO AN INITIAL PRO	FFERED PERMIT
REASONS FOR APPEAL OR OBJECTIONS: (Descri	be your reasons for appealing the	decision or your objections to an
initial proffered permit in clear concise statements. You may atta		
or objections are addressed in the administrative record.)		
ADDITIONAL INFORMATION: The appeal is limited to a revie		
record of the appeal conference or meeting, and any supplemental		
clarify the administrative record. Neither the appellant nor the Co you may provide additional information to clarify the location of i		
POINT OF CONTACT FOR QUESTIONS OR INFOR		
If you have questions regarding this decision and/or the appeal	If you only have questions regar	ding the appeal process you may
process you may contact:	also contact:	and the appear process you may
Ginger Mullins, Chief, Regulatory Branch, 304-399-5389		
Rebecca Rutherford, Ch, North Regulatory Section 304-399-5210	Mr. Mike Montone	
Mark Taylor, Chief, South Regulatory Section, 304 399-5710	Great Lakes and Ohio River Divisio 550 Main Street, Room 10032	n
Address: U.S. Army Corps of Engineers	Cincinnati, Ohio 45202-3222	
Regulatory Branch	Phone: (513) 684-6212	
502 8 <sup>th</sup> Street Huntington WV 25701		
Huntington, WV 25701		
RIGHT OF ENTRY: Your signature below grants the right of entr	to Corps of Engineers personne	I, and any government
consultants, to conduct investigations of the project site during the	course of the appeal process. You	
notice of any site investigation, and will have the opportunity to pa		
	Date:	Telephone number:
Signature of appellant or agent.		

## **SPECIAL PROVISIONS**

## 401 WATER QUALITY CERTIFICATION – WATERWAY PERMITS

CRS: LAK-2-3.32 PID: 13486

 401 WATER QUALITY CERTIFICATION FROM THE OHIO EPA (PERMIT NO. 083387; EFFECTIVE 08/12/2008, EXPIRES ON 08/12/2013)



State of Ohio Environmental Protection Agency

OINO E.P.A.

STREET ADDRESS:

Lazarus Government Center

50 W. Town St., Suite 700 Columbus, Ohio 43215 TELE: (614) 644-3020 FAX: (614) 644-3184 www.epa.state.oh.us P.O. Box 1049

AUG 12 7MAILING ADDRESS:

E,

**Certified Mail** 

August 12, 2008

Mr. James G. Beasley, P.E., P.S., Director Ohio Department of Transportation 1980 West Broad Street Columbus, Ohio 43223 I certify this to be a true and accurate copy of the official documents as filed in the records of the Ohio Environmental Protection Agency.

54 Date: 8-12-08

c/o Timothy M. Hill, Administrator, Office of Environmental Services

Re: Lake County Grant of Section 401 Water Quality Certification Project: (Minimal Degradation Alternative) to enhance safety and reduce congestion, and add third lane on State Route (SR) 2 in Lake County, Ohio. ACOE Public Notice No. 2006-2200-CHA Ohio EPA ID No. 083387 ODOT ID Code:LAK-2-3.32, PID 13486

Ladies and Gentlemen:

The Director of Ohio Environmental Protection Agency hereby authorizes the above referenced project under the following authority.

#### Section 401 Water Quality Certification

Pursuant to Section 401 of the Federal Water Pollution Control Act, Public Law 95-217, the Director of Ohio Environmental Protection Agency hereby certifies that the above-referenced project will comply with the applicable provisions of Sections 301, 302, 303, 306, and 307 of the Federal Water Pollution Control Act.

This authorization is specifically limited to a 401 water quality certification with respect to water pollution and does not relieve the applicant of further certifications or Permits as may be necessary under the law. I have determined that a lowering of water quality in the Chagrin River Watershed (HUC 04100009) as authorized by this certification is necessary. I have made this determination based upon the consideration of all public comments, and including the technical, social, and economic considerations concerning this application and its impact on waters of the state.

Ted Strickland, Governor Lee Fisher, Lieutenant Governor Chris Korleski, Director

Ohio EPA is an Equal Opportunity Employer

RECEILED

AUG 1 4 2008

OFFICE OF

ENVIRONMENTAL SERVICES

#### **i**. **On-Site Water Resources and Impacts**

TABLE - 1									
Wetland Location Motia nd ID		ORAM Score*	Cat	Wetland Type F <sup>1</sup> NF PEM PSS <sup>4</sup>	Total Size (acres)	Total Size Impacte	Impact -Type	% Avoide d	
	Lat	Long		Mad	PEO <sup>2</sup>		(acres)		
Wetland 4/5	41 <sup>0</sup> 39'48" N	81 <sup>0</sup> 22'52" W	36.0 29.0	Mod. 2 1	PEM	1.48	0.02	Fill	98.65
Wetland 7	41 <sup>0</sup> 39'15" N	81 <sup>0</sup> 24'28" W	27.0	1	PEM/ Scrub- Shrub	2.23	1.92	Fill	14.35
Wetland 11	41 <sup>0</sup> 41'10" N	81 <sup>0</sup> 20'16" W	22.0	1	PEM	2.40	0.01	Fill	99.58
Wetland 12	41 <sup>0</sup> 39'10" N	81 <sup>0</sup> 24'33" W	24	1	PEM	1.64	1.41	Fill	14.02
Wetland 21	41 <sup>0</sup> 41'34" N	81 <sup>0</sup> 19'37" W	6.0	1	PEM	0.20	0.12	Fill	40.0
Wetland 30	41 <sup>0</sup> 39'12" N	81 <sup>0</sup> 26'16" W	7.0	1	PEM	0.56	0.05	Fill	91.07
		ΤΟΤΑ	L			8.51	3.53		

#### **Jurisdictional Wetlands** Α.

As provided by applicant, <sup>4</sup> Palustrine Scrub-Shrub
 <sup>2</sup> Non-Forest, <sup>3</sup> Palustrine Emergent Marsh
 <sup>4</sup> Forest, <sup>5</sup> Palustrine Forested

*Stream ID	Stream Location USGS Coordinate)		QHEI/HHEI Score	Designatio	Impact Length (If)	Impact Type
Stream 1 (UT to Mentor Marsh	41 <sup>0</sup> 43'13" N	81 <sup>0</sup> 17'23" W	56 HHEI	Class II, PHWH	70	Culvert replacement
Stream 2 (UT to Chagrin River)	41 <sup>0</sup> 38'38" N	81 <sup>0</sup> 25'34" W	64 HHEI	Class II, PHWH	40	Culvert
Stream 3 (UT to Stream 1 to Mentor Marsh)	41 <sup>0</sup> 43'03" N	81 <sup>0</sup> 17'53" W	45 HHEI	Class II, PHWH	907	Relocation
Stream 4 (UT to Wasson Ditch)	41 <sup>0</sup> 43'03" N	81 <sup>0</sup> 18'03" W	50 HHEI	Class II, PHWH	1,050	Relocation
Stream 5 (UT to Heisley Creek)	41 <sup>0</sup> 42'17" N	81 <sup>0</sup> 18'54" W	64 HHEI	Class III, PHWH	33	Culvert replacement
Stream 6 (Marsh Creek)	41 <sup>0</sup> 41'34" N	81 <sup>0</sup> 19'38" W	64.25 QHEI	WWH	65	Repair concrete slab
Stream 8 (UT to Stream 9)	41 <sup>0</sup> 41'34" N	81 <sup>0</sup> 19'38" W	14 HHEI	Class I, PHWH	70	Culvert replacement
Stream 9 (UT to UT to Chagrin River)	41 <sup>0</sup> 40'50" N	81 <sup>0</sup> 21'30" W	78 HHEI	Class III, PHWH	120	Repair concrete slab
Stream 10 (Newell Creek)	41 <sup>0</sup> 40'17" N	81 <sup>0</sup> 22'12" W	24 HHEI	Class I, PHWH	240	Bridge work
Stream 12 (UT to Chagrin River)	41 <sup>0</sup> 39'43" N	81 <sup>0</sup> 22'53" W	69 HHEI	Class III, PHWH	161	Culvert replacement
Stream 13 (UT to Chagrin River)	41 <sup>0</sup> 38'56" N	81 <sup>0</sup> 25'00" W	51 HHEI	Class II, PHWH	85	Culvert replacement
Stream 14 (Wasson Ditch)	41 <sup>0</sup> 43'03" N	81 <sup>0</sup> 18'03" W	56 HHEI	WWH, provisional	105	Culvert replacement
Stream 15 (Heisley Creek)	41 <sup>0</sup> 42'31" N	81 <sup>0</sup> 18'43" W	57.5 QHEI	WWH	320	Bridge work
Stream 16 (Chagrin River)	41 <sup>0</sup> 39'17" N	81 <sup>0</sup> 24'21" W	56 QHEI	WWH	281	Bridge work
		TOTALS			-3547 -	

#### B. Jurisdictional Streams

As provided by applicant

#### II. General Conditions

- A. All water resources and their buffers which are to be avoided shall be clearly indicated on site drawings and demarcated in the field with suitable materials, prior to site disturbance. These materials shall remain in place and be maintained throughout the construction process. The water resources also shall be protected with suitable materials, including silt fencing if appropriate, prior to site disturbance. These materials shall remain in place and be maintained throughout the construction process.
- B. Best Management Practices (BMPs) must be employed throughout the course of this project to avoid the creation of unnecessary turbidity which may degrade water quality or adversely affect aquatic life outside of the project area.
- C. Work shall only take place during low water conditions in order to minimize adverse impacts to water quality away from the project site.
- D. Temporary fill shall consist of suitable non-erodible material or shall be stabilized to prevent erosion.
- E. Materials used in this project for fill or bank protection shall consist of suitable material free from toxic contaminants in other than trace quantities. Broken asphalt is specifically excluded from use as bank protection.
- F. BMPs shall be taken during construction to minimize erosion.
- G. BMPs shall be taken upon completion of this project, to ensure bank stability. This may include, but is not limited to, bank seeding.
- H. Procedures shall be developed and implemented to eliminate the possibility of spills and to control dust that may enter the waterway by runoff or point discharge.
- I. Unpermitted impacts to surface water resources and/or their buffers occurring as a result of this project will be reported within 24 hours of occurrence to Ohio EPA for further evaluation.
- J. In temporary impact areas where trees have been removed to facilitate construction, they shall be replaced with appropriate native tree species.
- L. Permittee shall be in compliance with the NPDES General Construction Permit for all phases of this project.

M. Other permits may be required by Ohio EPA. For information concerning application procedures, contact the Ohio EPA District Office at the following address:

Northeast District office 2110 East Aurora Road Twinsburg, Ohio 44087

- N. Representatives from the Ohio EPA, Division of Surface Water will be allowed to inspect the authorized activity at any time deemed necessary to insure that it is being or has been accomplished in accordance with the terms and conditions of this water quality certification.
- O. In order to protect the Indiana bat from impacts from this development, the applicant shall not cut bat habitat trees between April 15<sup>th</sup> and September 15<sup>th</sup>.
- P. The bottom elevations shall be restored as nearly as possible to preproject conditions.
- Q. Blasting will not be done within or near stream channels without prior consultation with the Ohio Department of Natural Resources, Division of Wildlife, to determine what protective measures should be taken to minimize damage to fish and other aquatic life.
- R. Cadmium chromium arsenate (CCA) and creosote treated lumber shall not be used in structures in contact with waters of the state.
- S. This project may affect the drinking water wells for the adjoining City/Village. Precautions must be taken to limit any affect on the water supply. Officials at the City/Village should be notified before beginning the project and activities shall be coordinated with them.
- T. If pesticide application(s) are proposed for the control of invasive plant species, a site specific application permit must be obtained by calling 614-644-2001 and speaking with the Toxicology Specialist.

#### III. MITIGATION

#### A. Description of Required Wetland Mitigation

The Permittee shall compensate for the 3.53 acres of impacts to jurisdictional wetlands by purchasing a minimum of 5.4 mitigation credits from the Trumbull Creek Wetlands Mitigation Bank, located on SR 166 along the Ashtabula-Geauga County line.

#### B. Timing of Required Wetland Mitigation

The Permittee shall provide Ohio EPA with an updated balance sheet showing it has purchased 5.4 mitigation credits from the Trumbull Creek Wetlands Mitigation Bank within six months from the date of issuance of this certificate.

#### C. Compensatory Stream Mitigation

The Permittee shall compensate for the estimated 3,547 linear feet of impacts to the designated streams in the project area by preserving 5,321 linear feet (3,547 lf X 1.5) of streams at Groves Woods, a Cleveland Museum of Natural History site in Trumbull, County, Ohio. The mitigation streams consists of Class II and Class III Primary Headwater Habitat (PHWH) streams.

#### B. Timing of Required Stream Mitigation

The Permittee shall obtain a minimum of 5,321 linear feet of streams that are protected with a conservation easement, in perpetuity. The Permittee shall further provide Ohio EPA with a copy of the conservation easement for the Groves Woods site within one year from the date of issuance of this certificate.

#### IV. Notifications To Ohio EPA

All notifications, correspondence, and reports regarding this certification shall reference the following information:

Permittee: Project:	Ohio Department of Transportation (ODOT) Enhancement of SR 2 LAK-2-3.32, PID 13486 -	
Ohio EPA ID#:	083387	

and shall be sent to:	Ohio EPA, Division of Surface Water, 401 Unit
	Lazarus Government Center
	55 West Town Street, Suite 700
	Columbus, Ohio 43216

You are hereby notified that this action of the Director is final and may be Appealed to the Environmental Review Appeals Commission pursuant to Section 3745.04 of the Ohio Revised Code. The appeal must be in writing and set forth the action complained of and the grounds upon which the appeal is based. The appeal must be filed with the Commission within thirty (30) days after notice of the Director's action. The appeal must be accompanied by a filing fee of \$70.00 which the Commission, in its discretion, may reduce if by affidavit you demonstrate that payment of the full amount of the fee would cause extreme hardship. Notice of the filing of the appeal shall be filed with the Director within three (3) days of filing with the Commission. Ohio EPA requests that a copy of the appeal be served upon the Ohio Attorney General's Office, Environmental Enforcement Section. An appeal may be filed with the Environmental Review Appeals Commission at the following address: Environmental Review Appeals Commission, 309 South Fourth Street, Room 222, Columbus, OH 43215

Sincerely,

Chris Korleski Director

 cc: Deborah L Wegmann, Team Leader, U.S. Army Corps of Engineers, Huntington District, Ohio Regulatory Transportation Office
 Wayne Gorski, U.S. EPA, Region 5,
 William Cody, Asst. Administrator, OES/ODOT
 Mike Pettegrew, Supervisor, Waterway Permits Unit, OES/ODOT
 Don Rostofer, Supervisor, Ecological Unit, OES/ODOT
 Karen L. Hallberg, USF&W (Reynoldsburg Office)
 Brian Mitch, ODNR
 Ed Wilk, NEDO/Ohio EPA
 Joe Loucek, NEDO/Ohio EPA

# **SPECIAL PROVISIONS**

OHIO EPA ISOLATED WETLAND PERMIT – WATERWAY PERMITS

CRS: LAK-2-3.32 PID: 13486

 OHIO EPA ISOLATED WETLAND PERMIT (PERMIT No. 083337; EFFECTIVE 3/12/2008, EXPIRES ON 3/12/2010)



State of Ohio Environmental Protection Agency

STREET ADDRESS:

Lazarus Government Center 50 W. Town St., Suite 700 Columbus, Ohio 43215 TELE: (614) 644-3020 FAX: (614) 644-3184 www.epa.state.oh.us MAILING ADDRESS:

P.O. Box 1049 Columbus, OH 43216-1049

March 12, 2008

Timothy M. Hill, Administrator Ohio Department of Transportation Office of Environmental Services PO Box 899 Columbus, Ohio 43216-0899

# Re: Pre-Activity Notification: General Isolated Wetland Permit (Level 1) Ohio EPA SWIMS ID#: 083337 Project: Construction of a fourth lane between SR 91 and Vine Street and a third lane between Heisley Road and SR 44; miscellaneous work Project ID #: LAK-2-3.32, PID 13486

Dear Mr. Hill:

1

On April 10, 2007, the Director of the Ohio EPA, pursuant to Ohio Revised Code (ORC) Section 6111.021 issued the Ohio General Permit for filling Category 1 and Category 2 Isolated Wetlands. The Ohio Department of Transportation (ODOT) has submitted a complete and acceptable General Isolated Wetland Permit Application (Level 1) and, after our review, hereby has been granted a General Isolated Wetland Permit, effective March 12, 2008, relative to the above referenced project. This permit only authorizes the designated impacts (0.02 acres) to Isolated Wetlands W-3 and W-13 described in the application.

We received the permit application in our office on March 7, 2008. The project consists of the construction of a fourth lane between SR 91 and Vine Street, and third lane between Heisley Road and SR 44, in Lake County, Ohio. In addition, construction work will include full shoulders and concrete median barrier, and modification of seven freeway interchanges. The project is estimated to impact 0.02 acres of isolated wetlands.

Please note ODOT is required to abide by all of the provisions of the General Permit, specifically the permit conditions listed in Part III and the mitigation requirements listed in Part IV. Per ORC Section 6111.022 (E) and Part V of the General Permit, the proposed filling of the isolated wetlands must be completed within two years of the date of this permit. If ODOT does not complete the filling within this two year period, it must submit a new pre-activity notice (PAN) to Ohio EPA. According to the application, ODOT shall provide compensatory mitigation for the 0.02 acres of impacts to Wetlands W-3 and W-13 by deducting 0.03 acres of wetland mitigation credits from the Trumbull

Ted Strickland, Governor Lee Fisher, Lieutenant Governor Chris Korleski, Director

Ohio EPA is an Equal Opportunity Employer

J.

Timothy M. Hill, Administrator Ohio Department of Transportation Office of Environmental Services General Isolated Wetland Permit (Level One) LAK-2-3.31, PID 13486 Page 2 of 2

Creek Wetlands Mitigation Bank located on State Route 166 along the Ashtabula-Geauga County line. ODOT shall provide Ohio EPA with a balance sheet or equivalent documentation showing it has withdrawn the specified number of credits.

Please note in accordance with Part IV (F) of the General Permit, when mitigation will occur at an approved wetland mitigation bank, mitigation credits must be acquired within 15 days after receipt of the written notice of approval authorizing impacts to isolated wetlands.

We thank you for submitting the isolated wetland permit application for our review. If you have any questions or issues you would like to discuss regarding this determination or the project, please contact me at (614) 644-2138.

Sincerely,

arthur L. Coleran 1 J

Arthur L. Coleman, Jr, Ohio EPA, DSW Environmental Mitigation and Special Permitting Section

 cc: Deborah Wegmann, USACE, Huntington District Wayne Gorski, US EPA/Region V
 William Cody, Asst. Administrator, OES/ODOT
 Mike Pettegrew, Supervisor, Waterway Permit Unit, OES/ODOT
 Donald Rostofer, Supervisor, Ecological Systems Unit, OES/ODOT
 Ed Wilk, NEDO/Ohio EPA
 Megan Seymour, USF&W (Reynoldsburg Office)
 Brian Mitch, ODNR

# **SPECIAL PROVISIONS**

## COMBINED 404/401 WATERWAY PERMIT APPLICATION – WATERWAY PERMITS

CRS: LAK-2-3.32 PID: 13486

 COMBINED 404/401 WATERWAY PERMIT APPLICATION (SUBMITTED TO THE US ARMY CORPS OF ENGINEERS AND OHIO EPA ON MARCH 5, 2008) i,

#### Section 404 Application for Department of the Army Permit and Section 401 Application for the Ohio Environmental Protection Agency Water Quality Certification

#### LAK-2-3.32 (PID 13486) Reconstruction Project in the Municipalities of Eastlake, Willoughby, and Mentor Lake County, Ohio

By

#### **Richard M. Paul, Ecologist/Environmental Specialist**

Submitted By: Andrew Campbell Project Manager ASC Group, Inc. 4620 Indianola Avenue Columbus, Ohio 43214 614.268.2514

Submitted to: Scott Graham, P.E. ARCADIS U.S., Inc. 1100 Superior Avenue Suite 1250 Cleveland, Ohio 44114 216.781 6177

Lead Agency: Ohio Department of Transportation

March 3, 2008

Printed on Recycled Paper

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**404 Permit Application** 

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	(33 CFR 325)		OMB APPROVAL NO. 0710-003	
sources, gathering and maintaining th aspect of this collection of informatio Operations and Reports, 1215 Jeffers	he data needed, and completing and rev on, including suggestions for reducing the son Davis Highway, Suite 1204, Arling 3. Please DO NOT RETURN your for	viewing the collection of information his burden, to Department of Defen- ton, VA 22202-4302; and to the C	ling the time for reviewing instructions, searching existing con. Send comments regarding this burden estimate or any of se, Washington Headquarters Service Directorate of Informat fiftice of Management and Budget, Paperwork Reduction Pro- mpleted applications must be submitted to the District Engin	
	PRI	VACY ACT STATEMENT		
discharge or till material into water Information provided on this form wi provided, however, the permit applic and character of the proposed activity	s of the United States, and the transp ill be used in evaluating the application ation cannot be processed nor can a pe	portation of dredged material for a for a permit. Disclosure: Disclos ermit be issued. One set of original see sample drawings and instruction	ivities in, or affecting, navigable waters of the United States, the purpose of dumping it into ocean waters. Routine Us aure of requested information is voluntary. If information is drawings or good reproducible copies which show the locat as) and be submitted to the District Engineer having jurisdict	
	(ITEMS 1 THRU	4 TO BE FILLED BY THE	E CORPS)	
1. APPLICATION NO. 2. FIELD OFFICE CODE		3. DATE RECEIVED	4. DATE APPLICATION COMPLETED	
	(ITEMS BELOW	TO BE FILLED BY APPL	ICANT)	
<ul> <li>5. APPLICANT'S NAME</li> <li>James Beasley, Director, P.E</li> </ul>	E., P.S.		'S NAME AND TITLE (an agent is not required) v, Supervisor, Waterway Permits Unit	
6. APPLICANT'S ADDRESS Ohio Department of Transporta 1980 West Broad Street Columbus, Ohio 43223	ation	9. AGENT'S ADDRESS Ohio Department of Transportation, Office of Environmental Servi 1980 West Broad Street, 3 <sup>rd</sup> Floor Columbus, Ohio 43223		
7. APPLICANT'S PHONE Nos. w/AREA CODE a. Residence n/a b. Business 614-466-7102		10. AGENT'S PHONE Nos. w/AREA CODE a. Residence n/a b. Business 614-466-7102		
11.	STATEMENT	OF AUTHORIZATION		
11.	Pettegrew oplemental information in support of September - Orec T'S SIGNATURE	to act in my b of this permit application.		
11.	Pettegrew oplemental information in support of Seally - Que	to act in my b of this permit application.		
11.	Pettegrew pplemental information in support of T'S SIGNATURE NAME, LOCATION, AND I see instructions)	to act in my b of this permit application.		
11. I hereby authorize, <u>Michael P</u> and to furnish, upon request, sup APPLICANT	Pettegrew pplemental information in support of T'S SIGNATURE NAME, LOCATION, AND I see instructions) overnent (PID 13486)	to act in my b of this permit application.		
11. I hereby authorize, <u>Michael P</u> and to furnish, upon request, sup APPLICANT 12. PROJECT NAME OR TITLE (a LAK-2-3.32 Road Impro 13. NAME OF WATERBODY, IF K See Exhibit 1.	Pettegrew pplemental information in support of T'S SIGNATURE NAME, LOCATION, AND I see instructions) overnent (PID 13486)	to act in my b of this permit application.	DATE DATE	
11.         I hereby authorize,	Pettegrew pplemental information in support of T'S SIGNATURE NAME, LOCATION, AND I see instructions) overnent (PID 13486)	to act in my b of this permit application.	DATE DATE	
11.         I hereby authorize,	Pettegrew pplemental information in support of T'S SIGNATURE NAME, LOCATION, AND see instructions) overnent (PID 13486) (NOWN (if applicable)	to act in my b of this permit application.	DATE DATE	
11.         I hereby authorize,Michael P         and to furnish, upon request, sup         James.         APPLICANT         12. PROJECT NAME OR TITLE (a         LAK-2-3.32 Road Impro         13. NAME OF WATERBODY, IF K         See Exhibit 1.         15. LOCATION OF PROJECT         Lake         COUNTY         16. OTHER LOCATION DESCRIPT	Contraction in support of the second	DESCRIPTION OR PROJ	CT OR ACTIVITY	

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#### 18. Nature of Activity (Description of project, include all features)

The proposed project includes the addition of a third lane from State Route 640 to State Route 44, the reconfiguration of seven Interchanges, concrete slab structures need to be patched and waterproofed, existing pipe culverts and box culverts need to be replaced, widening of existing I beam and three-span steel beam bridge, and the construction of a new 37 foot wide three-span steel beam bridge are all required. Fourteen streams and six wetlands will be affected by the proposed project. The streams and wetlands were identified through the preparation of the Ecological Survey Report including QHEI and HHEI data forms for the streams and ORAM forms for wetlands. Reference Table A, summary of streams impacted and Table B, summary of wetlands impacted for more detailed information.

#### 19. Project Purpose (Describe the reason or purpose of the project, see instructions)

The primary purposes for improvements to the LAK-2-3.32 corridor are to enhance safety and reduce congestion on State Route 2 in Lake County for both local and through traffic. This limited-access freeway facility displays functional and operational issues based on current traffic operation, safety considerations, and physical roadway deficiencies. Traffic congestion and outdated design features contribute to a high accident rate and safety concerns on the State Route 2 freeway mainline and interchanges. Maintenance activities for the roadway surface, highway lighting, and drainage facilities are becoming more extensive, frequent, and expensive for the responsible agencies.

#### USE BLOCKS 20-22 IF DREDGED AND/OR FILL MATERIAL IS TO BE DISCHARGED

#### 20. Reason(s) for Discharge

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Placement of fill in streams and wetlands is necessary to allow for proper roadway geometry and to be in compliance with ODOT specifications. Existing concrete slab structures need to be patched and waterproofed, existing pipe culverts and box culverts need to be replaced, widening of existing I beam and three-span steel beam bridge, and the construction of a new 37 foot wide three-span steel beam bridge are all required. Temporary discharge is necessary to create a temporary work area for replacement of the existing piers and abutments. Temporary fill will be removed upon completion of the project. Permanent fill will be necessary for construction of the abutments and approach slabs. The discharge associated with the placement of rock channel protection is needed to prevent erosion under the structure.

21. Type(s) of Material Being Discharged and the Amount of Each Type in Cubic Yards The types of material being discharged are specified by the ODOT Construction and Material Specifications 203. This includes natural soil, natural granular material, granular material types, shale, and rock., The total amount being discharged is 37,264 cubic yards.

Wetland Fill Material Quantity – 32,295 cubic yards (See Table C for Stream and Wetland Impacts) Stream Fill Material Quantity – 4,729 cubic yards (See Table C for Stream and Wetland Impacts)

22. Surface Area in Acres of Wetlands or Other Waters Filled (see instructions) Overall, a total of 14 streams will be impacted resulting in 3,547 linear feet, or 2.366 acres, of impact. A total of six wetlands will be impacted resulting in 3.53 acres of impact (See Table C for Stream and Wetland Impacts)

23. Is Any Portion of the Work Already Complete? Yes \_\_\_\_ No X\_\_\_ IF YES, DESCRIBE THE COMPLETED WORK N/A

24. Addresses of Adjoining Property Owners, Lessees, Etc., Whose Property Adjoins the Waterbody (It more than can be entered here, please attach a supplemental list).

See Exhibit 2.

	25. List of Other Cer	rtifications or Approvals/Den	ials Received from other	Federal, State, or Local Age	ncies for Work Describ	ed in This Application.
	AGENCY	TYPE APPROVAL	IDENTIFICATION NUMB	ER DATE APPLIED	DATE APPROVED	DATE DENIED
	USACE	Jurisdictional Determination	n n/a	n/a	1/12/07	n/a
Ì	Ohio EPA	Isolated Wetland Permit	n/a	March 2008	n/a	n/a
	USFWS	Ecological Coordination	n/a	January 2005	n/a	n/a
	City of Willoughby	Floodplain Permit	- n/a	n/a	n/a	n/a
	City of Mentor	Floodplain Permit	n/a	January 2006	n/a	n/a
I	Ohio EPA	Section 401 WQC	n/a	March 2008	n/a	n/a
I						

'Would include but is not restricted to zoning, building, and flood plain permits

26. Application is hereby made for a permit or permits to authorize the work described in this application. I certify that the information in this application is complete and accurate. I further certify that I possess the authority to undertake the work described herein or am acting as the duly authorized agent of the applicant.

SIGNATURE OF APPLICANT DATE

3/4/08

The application must be signed by the person who desires to undertake the proposed activity (applicant) or it may be signed by a duly authorized agent if the statement in block 11 has been filled out and signed.

18 U.S.C. Section 1001 provides that: Whoever, in any manner within the jurisdiction of any department or agency of the United States knowingly and willfully falsifies, conceals, or covers up any trick, scheme, or disguises a material fact or makes any false, fictitious or fraudulent statements or representations or makes or uses any false writing or document knowing same to contain any false, fictitious or fraudulent statements or entry, shall be fined not more than \$10,000 or imprisoned not more than five years or both.

Exhibit 1 - 404 Application: Block 13. Summary of Streams and Wetlands Impacted

Site / Feature	USGS 7.5" Quadrangle	USGS Coordinates
Stream 1; UT <sup>1</sup> to Mentor Marsh	Mentor	41°43'13"N
		81°17'23''W
Stream 2; UT <sup>1</sup> to UT <sup>1</sup> to Chagrin River	Eastlake	41°38'38"N
		81°25'34"W
Stream 3; UT' to Stream 1 to Mentor Marsh	Mentor	41°43'03"N
		81°17'53"W
Stream 4; UT <sup>1</sup> to Wasson Ditch	Mentor	41°43'03"N
		81°18'03"W
Stream 5; UT' to Heisley Creek	Mentor	41°42'17 <b>"</b> N
		81°18'54"W
Stream 6; Marsh Creek	Mentor	41°41'34"N
		81°19'38"W
Stream 8; UT <sup>1</sup> to Stream 9	Mentor	41°40'34"N
		81°21'51"W
Stream 9; UT <sup>1</sup> to UT <sup>1</sup> to Chagrin River	Mentor	41°40'50"N
		81°21'30''W
Stream 10; Newell Creek	Mentor	41°40'17"N
		81°22'12"W
Stream 12; UT <sup>1</sup> to Chagrin River	Eastlake	41°39'43"N
		81°22'53"W
Stream 13; UT <sup>1</sup> to Chagrin River	Eastlake	41°38'56"N
		81°25'00"W
Stream 14; Wasson Ditch	Mentor	41°43'03"N
		81°18'03"N
Stream 15; Heisley Creek	Mentor	41°42'31"N
		81°18'43"W
Stream 16; Chagrin River	Eastlake	41°39'17"N
		81°24'21"W
Wetland 4/5 <sup>2</sup>	Eastlake	41°39'48"N
		81°22'52''W
Wetland 7	Eastlake	41°39'15"N
		81°24'28"W
Wetland 11	Mentor	41°41'10"N
		81°20'16"W
Wetland 12 Wetland 21	Eastlake	41°39'10"N 81°24'33"W
		41°41'34"Ň
		81°19'37"W
Wetland 30	Eastlake	41°38'12"N
		81°26'16"W

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#### Block 13. Summary of Streams and Wetlands Impacted

Exhibit 2 - 404 Application: Block 24. Addresses of Adjoining Property Owners

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Yousef and Loubaba Karim 3901 Harvard Dr. Willoughby, OH

Wm. W. and Patricia Ann Burkey 3893 Harvard Dr. Willoughby, OH

Constance A. Rawlry 3883 Harvard Dr. Willoughby, OH

Paul and Denise Winegar 3875 Harvard Dr. Willoughby, OH

Sonia & Brothers, Inc. 35000 Curtis Blvd. Eastlake, OH

Cornerstone Church 7510 Reynolds Rd. Mentor, OH

Edward and Teresa Sherry 7707 Kittery Ln. Mentor, OH

John and Renee Dickson 7717 Kittery Ln. Mentor, OH

DWK Properties, ILC 7275 Industrial Pk. Mentor, OH

Freeway Lanes Holdings, LLC 7300 Palisades Pkwy. Mentor, OH

Hugh Carroll 7184 Bunker Cove Mentor, OH Robert and Evelyn Orlando 7727 Kittery Ln. Mentor, OH

Vivianni Family Limited Partnership 7255 Industrial Pk. Mentor, OH

Richard Parker 3460 Lost Nation Rd. Mentor, OH

Jason Grimm and Leslie Wuest 7860 Champaign Dr. Mentor, OH

Douglas and Barbara Denton 7866 Champaign Dr. Mentor, OH

Shelly and Barbara Detrick 7600 Tyler Blvd. Mentor, OH

Jeff and Nancy Sloat 7620 Tyler Blvd. Mentor, OH

Jim Brown Chevrolet, Inc. 6877 Center St. Mentor, OH

Marie and Phillip Plestis 8477 Tyler Blvd. Mentor, OH

Thomas Wheeler 8507 Tyler Blvd. Mentor, OH

Zoltan and Stacy Dudevszsky 8567 Tyler Blvd. Mentor, OH Hendricks Commercial Properties, LLC 8745 Munson Rd. Mentor, OH

Brijovia Properties, LLC 6520 Hopkins Rd. Mentor, OH

United Way of Lake County, Inc. 9285 Progress Pkwy. Mentor, OH

Donald and Sandra Berlin 9372 Trillium Ln. Mentor, OH

Jamie and Kim Tavano 9382 Trillium Ln. Mentor, OH

Charles and Linda Croaker 9392 Trillium Ln. Mentor, OH

Bruce and Kristine Harper 9362 Trillium Ln. Mentor, OH

David and Lisa Huffman 5876 Primavera Dr. Mentor, OH

Kevin Shoda and Dawn Murphy 5684 Primavera Dr. Mentor, OH

BP Exploration and Oil Inc. 5711 Heisley Rd. Mentor, OH

Ventas Realty 5700 Emerald St. Mentor, OH 401 Permit Application

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# APPLICATION FOR OHIO EPA SECTION 401 WATER QUALITY CERTIFICATION

## Effective October 1, 1996 Revised August 1998

This application must be completed whenever a proposed activity requires an individual Clean Water Act Section 401 Water Quality Certification (Section 401 certification) from Ohio EPA. A Section 401 certification from the State is required to obtain a federal Clean Water Act Section 404 permit from the U.S. Army Corps Engineers, or any other federal permits or licenses for projects that will result in a discharge of dredged or fill material to any waters of the State. To determine whether you need to submit this application to Ohio EPA, contact the U.S. Army Corps of Engineers District Office with jurisdiction over your project, or other federal agencies reviewing your application for a federal permit to discharge dredged or fill material to waters of the State, or an Ohio EPA Section 401 Coordinator at (614) 644-2001.

The Ohio EPA Section 401 Water Quality Certification Program is authorized by Section 401 of the Clean Water Act (33 U.S.C. 1251) and the Ohio Revised Code Section 6111.03(P). Ohio Administrative Code (OAC) Chapter 3745-32 outlines the application process and criteria for decision by the Director of Ohio EPA. In order for Ohio EPA to issue a Section 401 certification, the project must comply with Ohio's Water Quality Standards (OAC 3745-1) and not potentially result in an adverse long-term or short-term impact on water quality. Included in the Water Quality Standards is the Antidegradation Rule (OAC Rule 3745-1-05), effective October 1, 1996, revised October 1997 and May 1998. The Rule includes additional application requirements and public participation procedures. Because there is a lowering of water quality associated with every project being reviewed for Section 401 certification applicant must provide the information required in Part 10 (pages 3 and 4) of this application. In addition, applications for projects that will result in discharges of dredged or fill material to wetlands must include a wetland delineation report approved by the Corps of Engineers, a wetland assessment with a proposed assignment of wetland category (ies), official documentation on evaluation of the wetland for threatened or endangered species, and appropriate avoidance, minimization, and mitigation as prescribed in OAC 3745-1-50 to 3745-1-54. Ohio EPA will evaluate the applicant's proposed wetland vategory assignment and make the final assignment.

Information provided with the application will be used to evaluate the project for certification and is a matter of public record. If the Director determines that the application lacks information necessary to determine whether the applicant has demonstrated the criteria set forth in OAC Rule 3745-32-05(A) and OAC Chapter 3745-1, Ohio EPA will inform the applicant in writing of the additional information that must be submitted. The application will not be accepted until the application is considered complete by the Section 401 Coordinator. An Ohio EPA Section 401 Coordinator will inform you in writing when your application is determined to be complete.

Please submit the following to "Section 401 Supervisor, Ohio EPA/DSW, P.O. Box 1049, Columbus, Ohio 43216-1049:

- Four (4) sets of the completed application form, including the location of the project (preferably on a USGS quadrangle) and 8-1/2 x 11"scaled plan drawings and sections.
- One (1) set of original scaled plan drawings and cross-sections (or good reproducible copies).

#### (See Application Primer for detailed instructions)

1. The federal permitting agency has determined this project: (check appropriate box and fill in blanks)

a. X requires an individual 404 permit/401 certification- Public Notice # (if known)

b.\_\_\_\_ requires a Section 401 certification to be authorized by Nationwide Permit #\_\_\_\_\_

c.\_\_\_\_ requires a modified 404 permit/401 certification for original Public Notice # \_\_\_\_

d.\_\_\_\_\_ requires a federal permit under \_\_\_\_\_\_ jurisdiction identified by # \_\_\_\_\_\_

e.\_\_\_\_\_ requires a modified federal permit under \_\_\_\_\_\_ jurisdiction identified by # \_\_\_\_\_\_

`. Application number (to be assigned by Ohio EPA):			
3. Name and address of applicant: Mr. James Beasley, Director, P.E., P.S.	Telephone number ( <u>614</u> ) <u>466-7102</u>	during business hours	: Office)
Ohio Department of Transportation 1980 West Broad Street, Columbus, Ohio 43223	( <u>614</u> ) <u>728-7368</u>	(	Fax)
3a. Signature of Applicant:	la-and D	Date: 3/5/08	
4. Name, address and title of authorized agent:		during business hours	:
Mr. Michael Pettegrew, Supervisor, Waterway Permits U Ohio Department of Transportation 1980 West Broad Street, Columbus, Ohio 43223	nit ( <u>614</u> ) <u>466-7102</u> ( <u>614</u> ) <u>728-7368</u>		(Office) (Fax)
4a. Statement of Authorization: I hereby designate and au permit application, and to furnish, upon request, supplement			e processing of this
Signature of Applicant James & Brash-		ate: 3/5/08	
5. Location on land where activity exists or is proposed. I and the coordinate system and datum used.	ndicate coordinates of a fixed refe	rence point at the imp	act site (if known)
The proposed LAK-2-3.32 project begins at existing SR 9 east to the SR 44 south junction in Lake County, just west Chagrin River drainage basin will be impacted by this pro-	of Painesville. A total of 14 stream		
See Exhibit 1 for USGS Coordinates and other location in	formation for impacted streams ar	nd wetlands.	
Chagrin River Watershed Lake County, Ohio			
Watershed County Tov	vnship City	State	Zip Code
6. Is any portion of the activity for which authorization is If answer is "yes," give reasons, month and year activity v		<u>X</u> No g work on the drawin	gs.
7. List all approvals or certifications and denials received construction, discharge or other activities described in this		or local agencies for	any structures,
<u>Issuing Agency Type of Approval Identification</u> USACE Jurisdictional Determination n/a	n/a	Date of Approval January 12 2007	<u>Date of Denial</u> n/a
Ohio EPAIsolated Wetland Permitn/aUSFWSEcological Coordinationn/a	March 2008 January 2005	n/a n/a	n/a n/a
City of Willoughby Floodplain Permit n/a	n/a	n/a	n/a
City of Mentor Floodplain Permit n/a	January 2006	n/a	n/a
Department of the Army 404 Permit n/a	March 2008	n/a	n/a
8. DESCRIPTION OF THE ACTIVITY (fill i	n information in the follow	ing four blocks -	8a, 8b, 8c & 9)
8a. Activity: Describe the Overall Activity: SR 2 is a six-I Street. East of Vine Street, SR 2 consists of a four-lane di will consist of the construction of a fourth lane between SI shoulders and a concrete median barrier will be provided. even freeway interchanges in order to reduce congestion	ane divided highway with three la vided highway with two lanes in e R 91 and Vine Street and a third la In addition, the proposed improve	nes in both directions each direction. The pr ine between Heisley R ements will include th	to the west of Vine oposed improvement oad and SR 44. Full

Affected Streams and Wetlands: The proposed project affects 14 streams and six wetlands in the Chagrin River watershed. See Exhibit 2 for descriptions of proposed actions to these features.

'b. Purpose: Describe the purpose, need and intended use of the activity: The primary purposes for improvements to the LAK-2-3.32 corridor are to enhance safety and reduce congestion on SR 2 in Lake County for both local and through traffic. Three primary needs were identified for the project: Roadway capacity is insufficient to accommodate the existing and future traffic demands; Safety characteristics need to be improved; and Physical deficiencies exist in the corridor.

See Exhibit 2, Block 8b summarizing additional information regarding project.

8c. Discharge of dredged or fill material: Describe type, quantity of dredged material (in cubic yards), and quantity of fill material (in cubic yards). (OAC 3745-1-05(B)(2)(a))

Excavation: 5,640 yds2 (total project) Streams: Fill: 4,969 yds3 (total project)

Wetlands: Excavation: 2,532 yds3 (total project)

Fill: 32,295 yds3 (total project)

The types of material being discharged are specified by the ODOT Construction and Material Specifications 203. This includes natural soil, natural granular material, granular material types, shale, and rock.

See Table C for summary of discharge quantities by feature.

9. Waterbody and location of waterbody or upland where activity exists or is proposed, or location in relation to a stream, lake, wetland, wellhead or water intake (if known). Indicate the distance to, and the name of any receiving stream, if appropriate.

The proposed project impacts a total of 14 streams and six wetlands.

See Exhibit 2 for additional information.

### 10. To address the requirements of the Antidegradation Rule, your application must include a report evaluating the:

- o Preferred Design (your project) and Mitigative Techniques
- o Minimal Degradation Alternative(s) (scaled-down version(s) of your project) and Mitigative Techniques
- 0 Non-Degradation Alternative(s) (project resulting in avoidance of all waters of the state)

At a minimum, item a) below must be completed for the Preferred Design, the Minimal Degradation Alternative(s), and the Non-Degradation Alternative(s), followed by completion of item b) for each alternative, and so on, until all items have been discussed for each alternative (see Primer for specific instructions). (Application and review requirements appear at OAC 3745-1-05(B)(2), OAC 3745-1-05(C)(6), OAC 3745-1-05(C)(1) and OAC 3745-1-54).

See Exhibit 3.

- Provide a detailed description of any construction work, fill or other structures to occur or to be placed in or near the surface 10a) water. Identify all substances to be discharged, including the cubic yardage of dredged or fill material to be discharged to the surface water. (OAC 3745-1-05(B)(2)(b))
- 10b) Describe the magnitude of the proposed lowering of water quality. Include the anticipated impact of the proposed lowering of water quality on aquatic life and wildlife, including threatened and endangered species (include written comments from Ohio Department of Natural Resources and U.S. Fish and Wildlife Service), important commercial or recreational sport fish species, other individual species, and the overall aquatic community structure and function. Include a Corps of Engineers approved wetland delineation. (OAC 3745-1-05(C)(6)(a, b) and OAC 3745-1-54)

0c) Include a discussion of the technical feasibility, cost effectiveness, and availability. In addition, the reliability of each alternative shall be addressed (including potential recurring operational and maintenance difficulties that could lead to increased surface water degradation.) (OAC 3745-1-05(C)(6)(h, j-k) and OAC 3745-1-54)

10d) For regional sewage collection and treatment facilities, include a discussion of the technical feasibility, cost effectiveness and availability, and long-range plans outlined in state or local water quality management planning documents and applicable facility planning documents. (OAC 3745-1-05(C)(6)(i))

10e) To the extent that information is available, list and describe any government and/or privately sponsored conservation projects that exist or may have been formed to specifically target improvement of water quality or enhancement of recreational opportunities on the affected water resource. (OAC 3745-1-05(B)(2)(g))

10f) Provide an outline of the costs of water pollution controls associated with the proposed activity. This may include the cost of best management practices to be used during construction and operation of the project. (OAC 3745-01-05(C)(6)(g))

10g) Describe any impacts on human health and the overall quality and value of the water resource. (OAC 3745-1-05(C)(6)(c) and OAC 3745-1-54)

10h) Describe and provide an estimate of the important social and economic benefits to be realized through this project. Include the number and types of jobs created and tax revenues generated and a brief discussion on the condition of the local economy. (OAC 3745-1-5(B)(2)(e), and OAC 3745-1-05(C)(6)(i))

10i) Describe and provide an estimate of the important social and economic benefits that may be lost as a result of this project. Include the effect on commercial and recreational use of the water resource, including effects of lower water quality on recreation, tourism, aesthetics, or other use and enjoyment by humans. (OAC 3745-1-05(B)(2)(e,f), and OAC 3745-1-05(C)(6)(e))

10j) Describe environmental benefits, including water quality, lost and gained as a result of this project. Include the effects on the aquatic life, wildlife, threatened or endangered species. (OAC 3745-1-05 (B)(2)(e,f), OAC 3745-1-05 (C)(6)(b) and OAC 3745-1-54)

10k) Describe mitigation techniques proposed (except for the Non-Degradation Alternative):

<sup>o</sup> Describe proposed Wetland Mitigation (see OAC 3745-1-54 and Primer)

o Describe proposed Stream, Lake, Pond Mitigation (see Primer)

11. Application is hereby made for a Section 401 Water Quality Certification. I certify that I am familiar with the information contained in this application and, to the best of my knowledge and belief, such information is true, complete and accurate. I further certify that I possess the authority to undertake the proposed activities or I am acting as the duly authorized agent of the applicant.

3/5/09 D15 earl

Signature of Applicant

II

Date

Signature of Agent

The application must be signed by the person who desires to undertake the proposed activity (applicant) or it may be signed by a duly authorized agent if the statement in Block 3 has been filled out and signed.

Exhibit 1 - 401 Application: Block 5. Locations of Impacted Features for Minimal Degradation Alternative

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Site / Feature	USGS 7.5" Quadrangle	USGS Coordinates
Streem 1. ITT to Monton Month	Mentor	41°43'13"N
Stream 1; UT <sup>1</sup> to Mentor Marsh	Wentor	81°17'23"W
Stream 2. LITI to LITI to Chapmin Divor	Eastlake	41°38'38"N
Stream 2; UT <sup>1</sup> to UT <sup>1</sup> to Chagrin River	Eastiake	81°25'34"W
Stream 2. ITTI to Stream 1 to Monton Month	Mentor	41°43'03"N
Stream 3; UT' to Stream 1 to Mentor Marsh	Memor	81°17'53"W
	Marta	41°43'03"N
Stream 4; UT' to Wasson Ditch	Mentor	81°18'03"W
	Mantan	41°42'17"N
Stream 5; UT <sup>1</sup> to Heisley Creek	Mentor	81°18'54"W
Starson & March Orest	Mantan	41°41'34"N
Stream 6; Marsh Creek	Mentor	81°19'38"W
	Mantan	41°40'34"N
Stream 8; UT <sup>1</sup> to Stream 9	Mentor	81°21'51"W
		41°40'50"N
Stream 9; UT <sup>1</sup> to UT <sup>1</sup> to Chagrin River	Mentor	81°21'30"W
		41°40'17"N
Stream 10; Newell Creek	Mentor	81°22'12"W
		41°39'43"N
Stream 12; UT <sup>1</sup> to Chagrin River	Eastlake	81°22'53"W
		41°38'56''N
Stream 13; UT' to Chagrin River	Eastlake	81°25'00''W
		41°43'03"N
Stream 14; Wasson Ditch	Mentor	81°18'03"N
		41°42'31"N
Stream 15; Heisley Creek	Mentor	81°18'43"W
		41°39'17"N
Stream 16; Chagrin River	Eastlake	81°24'21''W
Wetland 4/5 <sup>2</sup>	T- 41	41°39'48"N
wetland 4/5	Eastlake	81°22'52"W
Wetland 7	Eastlake	41°39'15"N
Wethanki 7	Lastiane	81°24'28"W
Wetland 11	Mentor	41°41'10"N
		81°20'16"W
Wetland 12	Eastlake	41°39'10"N 81°24'33"W
		41°41'34"N
Wetland 21	Mentor	81°19'37"W
		41°38'12"N
Wetland 30	Eastlake	81°26'16"W

401 Application: Block 5. Locations of Impacted Features for Minimal Degradation Alternative

TABLES

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Table A. 404/401 Application: Streams Affected by the Proposed Project for the Minimal Degradation Alternative.

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Proposed Project for the Minimal Degradation		
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Table A. 404/	and a second s	

Riparian Corridor and Adjacent Habitats	Commercial, Residential	Metro Park, Wetlands, Commercial
QHEL OF HHEL Score/OEPA Use Designation (if available)	57.5 (QHEI); WWH	56 (QHEI); WWH
Distance to Drainage Receiving Area/Area at Stream Impact Site	0.54 mi²	16.3 mi <sup>2</sup>
Distance to Receiving Stream	1.21 mi	3.1 mi
Receiving Stream	Marsh Creek	Lake Erie
Total Length	3.79 mi	47.9 mi
Drainage Basin	3.8 mi <sup>2</sup>	264 mi²
Description and Length Impacted	Heisley Creek; 320 linear feet	Chagrin River; 281 linear feet
USGS Coord.	41°42'31"N 81°18'43"W	41°39'17"N 81°24'21"W
Stream No.	15	16

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Wetlands A
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Table B. 404/401 A

ther rs	m 12	t of r	t Creek stland	t of r	1m 6	lside into m
Proximity to Other Surface Waters	Adjacent to Stream 12	Within 200 feet of Chagrin River	Tributary of Marsh Creek flows through Wetland 11	Within 100 feet of Chagrin River	Adjacent to Stream 6	Adjacent to roadside ditch that flows into unnamed stream
Adjacent Habitats	Residential, State Route 2	Chagrin River Metro Park, Chagrin River Riparian Corridor, State Route 2	Commercial, State Route 2 flows through Wetland 11	Surrounded by State Route 2 and St. Clair Street	Commercial and State Route 2	Commercial and State Route 91
Total Size (Area Impacted)	0.02 ac	1.92 ac	0.01 ac	1.41 ac	0.12	0.05
OEPA Category	Modified Category 2/Category 1	Category 1	Category 1	Category 1	Category 1	Category 1
ORAM v5.0 Score	36/29	27	22	24	6	7
Cowardin et al., ORAM 1979 Classification v5.0 Score	Emergent/Forested Wetland	Emergent/Scrub- Shrub Wetland	Emergent Wetland	Emergent Wetland	Emergent Wetland	Emergent Wetland
Wetland Description	Low quality and non-native emergent species; Green Ash- Silver Maple component	Giant Reed and Black Willow Wetland	Giant Reed-Cattail Marsh	Giant Reed-Purple Loosestrife Marsh	Giant Reed Marsh	Mixed Emergent Marsh
Drainage Basin	Chagrin River	Chagrin River	Marsh Creek	Chagrin River	Marsh Creek	Unnamed Stream
USGS Coordinate	41°39'48"N 81°22'52"W	41°39'15"N 81°24'28"W	41°41'10"N 81°20'16"W	41°39'10"N 81°24'33"W	41°41'34"N 81°19'37"W	41°38'12"N 81°26'16"W
Wetland No.	4/5	2	11	12	21	30

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**Excavation / Fill Below OHW** Area (yd2) **Existing Channel Disturbed Due to** N/A N/A N/A N/A N/A N/A **Temporary Crossing** Volume (yd<sup>3</sup>) N/A N/A N/A N/A N/A N/A Disturbed Length of Channel N/A N/A N/A N/A N/A N/A **Existing Channel Disturbed Due to Placement of Proposed Structure,** Area (yd2) 4,275 315 N/A 165 2 20 Fill Below OHW Highway Fill, Channel Change or Channel Protection<sup>[1]</sup> Volume (yd<sup>3</sup>) 2,045 N/A 15 20 20 55 **Excavation Below OHW** Area (yd2) A. STREAMS 4,275 1,050 315 N/A N/A N/A Volume (yd<sup>3</sup>) 1,235 N/A 350 N/A N/A 4 linear feet) Length of Disturbed Channel 1,050 907 20 40 33 65 Proposed Structure Interchange, Ramp A 58"x91" culvert with a 12'x6' box culvert parallel Tributary of 48"x76" pipe culvert and 8' smooth lined Reline existing 15' and 10' corrugated metal pipe with 11' Heisley Road ramp reinforced concrete slab structure to be and Ramp D, and Replace existing Replace existing unnamed stream Re-grading of Wasson Ditch Existing 16'x7' Re-grading of Heisley Road waterproofed patched and with 8'x5' or Action pipe Interchange, Ramp B Route 2 Sta. 776+30 Sta. 361+50 to Sta. Sta. 755+00 to Sta. 370+00 and State Approx. Station (Sta.) Location to Sta. 776+90 Sta. 308+66.09 775+00 (North) Heisley Road Sta. 794+63 Sta. 701+08 Sta. 646+04 (south) 1/Unnamed 2/Unnamed 3/Unnamed 4/Tributary 5/Tributary of Wasson of Heisley No./Name 6/Marsh Creek Stream Stream Stream Stream Creek Ditch

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**Excavation / Fill Below OHW** Area (yd2) **Existing Channel Disturbed Due to** N/A N/A N/A N/A N/A Temporary Crossing Volume (yd<sup>3</sup>) N/A N/A N/A N/A N/A Disturbed Length of Channel N/A N/A N/A N/A N/A **Existing Channel Disturbed Due to Placement of Proposed Structure,** Area (yd2) N/A 265 225 100 95 Fill Below OHW Highway Fill, Channel Change or Channel Protection<sup>[1]</sup> Volume (yd<sup>3</sup>) N/A 240 150 20 75 **Excavation Below OHW** Area (yd²) A. STREAMS N/A N/A N/A N/A N/A Volume (yd<sup>3</sup>) N/A N/A N/A N/A N/A (linear feet) Length of Disturbed Channel 240 120 161 20 85 **Proposed Structure** Replace existing twin Additional impacts at Replace existing 96" Replace existing 42" pipe with 77"x121" reinforced concrete elliptical pipe under median drain outlets reinforced concrete reinforced concrete slab structure to be Widen existing prereinforced concrete reinforced concrete reinforced concrete simple span bridge Lost Nation Road; 48" pipe culverts Existing 12'x10' stressed I-beam, with 58"x91" elliptical pipe pipe with 42" waterproofed patched and or Action pipe (right); Sta. 451+00 to Sta. 459+00 (left); S.R. 306 Ramp I, Sta. 59+00 to Sta. 68+75; S.R. 2, Sta. 395+00 Lost Nation Road Approx. Station limits); and Lost nation Road, Sta. (Sta.) Location Ramp B (entire to Sta. 451+00 Sta. 524+97.8 Sta. 345+16 Sta. 548+21 Sta. 501+81 50+54 12/Tributary 8/Unnamed of Chagrin 13/Tributary 9/Unnamed of Chagrin No./Name 10/Newell Stream Stream Stream Creek River River

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A. STREAMS

				A. 3	A. DIKEAMO					
			Existing Chan	unel Disturbed	Due to Placer	Existing Channel Disturbed Due to Placement of Proposed Structure,	d Structure,	Existing	<b>Existing Channel Disturbed Due to</b>	bed Due to
			Highw	ay Fill, Chann	el Change or (	Highway Fill, Channel Change or Channel Protection 14	<b>ion</b> <sup>[1]</sup>	F	Temporary Crossing	ing
Stream	Approx. Station	Proposed Structure	Length of	<b>Excavation Below OHW</b>	Below OHW	Fill Below OHW	OHW	Length of	Excavation / F	Excavation / Fill Below OHW
No./Name	(Sta.) Location	ог Аспол	Channel Disturbed (linear feet)	Volume (yd <sup>3</sup> )	Area (yd²)	Volume (yd³)	Area (yd²)	Channel Disturbed	Volume (yd³)	Area (yd²)
14/Wasson Ditch	Sta. 738+57	Replace existing 72" reinforced concrete pipe and 15" reinforced concrete pipe with 84" reinforced concrete pipe	105	N/A	N/A	155	200	N/A	N/A	N/A
15/Heisley Creek	Sta. 717+65	Replace existing 3- span reinforced concrete slab bridge with single span steel beam with concrete deck structure	320	N/A	N/A	975	1,830	N/A	N/A	N/A
16/Chagrin River	Sta. 381+16	Widen existing 3- span steel beam with reinforced concrete deck bridge and construct a new 37' (out-to-out) wide 3- span steel beam with reinforced concrete deck bridge for Ramp D; relocate existing sanitary sewer	281	N/A	N/A	515	515	20	444	333

			Total Area		Direct Impac	Direct Impacts (within construction limits)	ruction limits)	Indirect Imnact Area
Feature	Location	Description	Impacted (acres)	Proposed Action	Volume Excavated (yd³)	Volume Filled (yd <sup>3</sup> )	Volume Filled Area Excavated (yd <sup>3</sup> ) (ff <sup>2</sup> )	(outside construction limits)
Wetland 4/5	S.R. 2, Sta. 454+00, 160 ft Modified Category 2 Lt. to S.R. 306 ramp I, Forested/Emergent Sta. 70+50, 100 ft.Lt. Wetland	Modiffed Category 2 Forested/Emergent Wetland	0.02	Sideslope and ditch grading	15	0	870	0
Wetland 7	S.R. 2, Sta. 359+75 to Sta. 379+50, 100 ft Lt.	Category 1 Emergent/Scrub- Shrub Wetland	1.92	Sideslope and ditch grading; Storm sewer and retaining wall construction	400	27,023	83,635	0
Wetland 11	S.R. 615 Ramp B, Sta. 0+50 to Sta. 11+00 (S.R. 2 Sta. 614+50), 60 ft. Rt.	Category 1 Emergent Wetland	0.01	Sideslope and ditch grading	15	0	435	0
Wetland 12	S.R. 2, Sta. 359+80 to Sta. 378+75, 80 ft Rt.	Category 1 Emergent Wetland	1.41	Sideslope and ditch grading, and storm sewer construction	1,944	5,222	61,420	0
Wetland 21	S.R. 2, Sta. 645+90 to Sta. 647+90, 120 ft. Rt.	Category 1 Emergent Wetland	0.12	Sideslope and ditch grading, and culvert construction	208	0	5,227	0
Wetland 30	Som Center Rd. (S.R. 91), Sta. 27+50 (S.R. 2, Sta. 308+00), 390 ft Rt.	Category 1 Emergent Wetland	0.05	Sideslope grading	50	50	2178	0

B. WETLANDS

C. WHOLE PROJECT SUMMARY OF ACTIVITIES

Total Project Lineal Stream Disturbances	al Stream Distur	bances		Tot	<b>Total Project Excavation</b>	Excavat	ion					<b>Total Project Fill</b>	oject Fill	
b d	Length Disturbed due Net Length to Temporary Disturbed <sup>[3]</sup>	Net Length Disturbed <sup>[3]</sup>	Stream Excavated	am ated	Wetland Excavated	and 'ated	Total Excavation	tal ation	Stream Filled (standard roadfill, channel protection, temp crossing & other materials	Filled lard channel u, temp & other ials	Wetlan	Wetland Filled	Total Filled	Filled
CDADDEL FROIECHOU			Volume	Area	Volume Area Volume Area	Area	Volume	Area	Volume	Area	Volume		Volume	Area
			(sd <sup>3</sup> )	(yd²)	(vd <sup>3</sup> )	(yd <sup>2</sup> )	(yd <sup>3</sup> )	(yd²)	(yd <sup>3</sup> )	(yd²)	(yd <sup>3</sup> )	(yd²)	(yd <sup>3</sup> )	(yd²)
3,547	20	3,567	1,625	5,640	2,632	59,903	4,157	65,543	2,632 59,903 4,157 65,543 4,429 10,228 32,295 102,434 37,264 112,662	10,228	32,295	102,434	37,264	112,662

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Table D. 404/401 Ap

			Expected	<b>Expected Impacts by Alternative</b>	ve		
Alternative	Direct Stream Impacts	Aquatic Hab. (QHEI/HHEI)/Use Designation/Stream Flow	Aquatic Biota	T & E Species <sup>[1]</sup>	Terrestrial Plant/Animals (Riparian Arca)	Wetlands	Summary for Alternative
Preferred	Primarily short-term construction impacts (increased erosion and sedimentation); Overall, no long- term impacts to water quality are expected. Total Stream Impacts: 5,141 linear feet Temporary Fill: 0.440 acres Permanent Fill: 2.465 acres	Stream 1/56 (HHEI)/Intermittent Stream 2/64 (HHEI)/Intermittent Stream 3/45 (HHEI)/Intermittent Stream 4/50 (HHEI)/Intermittent Stream 5/64 (HHEI)/Intermittent Stream 8/14 (HHEI)/Intermittent Stream 10/24 (HHEI)/Intermittent Stream 10/24 (HHEI)/Intermittent Stream 13/51 (HHEI)/Intermittent Stream 13/51 (HHEI)/Intermittent Stream 13/56 (HHEI)/Intermittent Stream 13/56 (OHEI)/Peremial Stream 16/56 (QHEI)/Peremial Stream 16/56 (QHEI)/Peremial Stream 18/35 (QHEI)/Peremial Stream 18/35 (QHEI)/Peremial Stream 18/35 (QHEI)/Peremial Stream 18/35 (QHEI)/Peremial Stream 18/35 (QHEI)/Peremial Stream 18/35 (QHEI)/Peremial Stream 18/35 (QHEI)/Peremial	The existing fish and macrobenthos are expected to be displaced, but not significantly affected within any stream. Examples of fish species include: largemouth bass (Micropterus salmoides), white suckers (Catostomus commersoni), smallmouth bass (Micropterus dolomieui), creek chub (Semotitus arromaculatus), sunfish (Lepomis sp.). Several examples of macrobenthos species include: Hydropsyche sp., Argia sp., Chironomidae sp., and Hirudinea sp.	No federal/state threatened or endangered species were identified in the project area. The range of the Indiana bat ( <i>Myotis</i> sodalis), the piping plover ( <i>Charadrius</i> melodus), and the bald eagle ( <i>Haliaeetus</i> leucocephalus) include Lake County. It is unlikely that any of these species will be adversely affected.	Very common plant, marnmal, bird, and amphibian species. Examples of mammal, bird, and amphibian species include: white- tailed deer (Odocoileus virginianus), raccoon (Procyon lotor), European starling (Sturnus vulgaris), Northern cardinalis), and green frog (Rana (Sturnus vulgaris), Northern cardinalis), and green frog (Rana clamitans). Examples of plant species include: silver maple (Acer saccharinum), chicory (Cichorium intybus), tall fescue (Festuca elatior), common reed (Phragmites australis), and Kentucky bluegrass (Poa pratensis). These species are expected to be displaced, but not significantly affected.	Non-Isolated Total Impact: 4.55 acres 3.81 acres of impact for non- forested Category 1 wetlands; 0.65 acres of impact for forested Category 2 wetlands 0.07 acres of impact for non- forested Category 1 wetlands; 0.05 acres of impact for non- forested Category 1 wetlands 0.05 acres of impact for forested Category 1 wetlands	No permanent impacts to sensitive habitats, T&E species, or aquatic biota. Siltation resulting from the construction activities may reduce species diversity and abundance during construction and shortly afterwards. However, it is unlikely that construction activities will result in the permanent loss of any aquatic species. The project may require the cutting of several trees that possess Indiana bat roosting potential.

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			Expected	Expected Impacts by Alternative	Ve		
Alternative	Direct Stream Impacts	Aquatic Hab. (QHEL/HHEI)/Use Designation/Stream Flow	Aquatic Biota	T & E Species <sup>[1]</sup>	Terrestrial Plant/Animals (Riparian Area)	Wetlands	Summary for Alternative
Minimal Degradation	Frimarily short-term construction impacts (increased erosion and sedimentation); Overall, no long- term impacts to water quality are expected. Total Stream Impacts: 3,547 linear feet Termporary Fill: 0.439 acres Permanent Fill: 1.927 acres	Stream 1/56 (HHEI)/Intermittent Stream 2/64 (HHEI)/Intermittent Stream 3/45 (HHEI)/Intermittent Stream 4/50 (HHEI)/Intermittent Stream 5/64 (HHEI)/Intermittent Stream 8/14 (HHEI)/Intermittent Stream 10/24 (HHEI)/Intermittent Stream 10/24 (HHEI)/Intermittent Stream 13/51 (HHEI)/Intermittent Stream 13/51 (HHEI)/Intermittent Stream 13/51 (HHEI)/Intermittent Stream 13/56 (HHEI)/Intermittent Stream 13/56 (HHEI)/Intermittent Stream 13/56 (OHEI)/Perennial Stream 16/56 (QHEI)/Perennial	The existing fish and macrobenthos are expected to be displaced, but not significantly affected within any stream. Examples of fish species include: largemouth bass (Micropterus salmoides), white suckers (Catostomus commersoni), smallmouth bass (Micropterus dolomieul), creek chub (Semotilus atronaculatus), sunfish (Lepomis sp.). Several examples of macrobenthos species include: Hydropsyche sp., Argia sp., Gammarus sp., Chironomidae sp., and Hirudinea sp.	No federal/state threatened or endangered species were identified in the project area. The range of the Indiana bat (Myotis sodalis), the piping plover (Charadrius melodus), and the bald eagle (Haliaeetus) leucocephalus) include Lake County. It is unlikely that any of these species will be adversely affected.	Very common plant, mammal, bird, reptile, and amplubian species. Examples of mammal, bird, and amphibian species include: white- tailed deer (Odocoileus virginianus), raccoon (Procyon lotor), European starling (Sturnus vulgaris), Northern cardinal (Cardinalis cardinalis), and green frog (Rama clamitans). Examples of plant species include: silver maple (Acer saccharinum), chicory (Cichorium intybus), tall fescue (Festuca elatior), common reed (Phragmites australis), and Kentucky bluegrass (Poa pratensis). These species are expected to be displaced, but not significantly affected within any stream.	Non-Isolated Total Impact: 3.53 acres 3.51 acres of impact for non- forested Category 1 wetlands, 0.02 acres of impact for forested Category 2 wetlands 2 wetlands 0.02 acres 0.02 acres 0.02 acres 0.01 acres of impact for non- forested Category 1 wetlands, 0.01 acres of impact for forested Category 1 wetlands, 0.01 acres of impact for forested Category 1 wetlands, 0.01 acres of impact for forested Category 1 wetlands, 0.01	No permanent impacts to sensitive habitats, T&E species, or aquatic biota. Siltation resulting from the construction activities may reduce species diversity and abundance during construction and shortly afterwards. However, it is unlikely that construction activities will result in the permanent loss of any aquatic species. The project may require the cutting of several trees that possess Indiana bat roosting potential.
Non- Degradation	None	No impacts as current structures are in place (culverts, bridges, etc.)	None	None	None	None	No impacts for this alternative.
[1] Impact fo	otprint of the Preferred / achieve pre-	[1] Impact footprint of the Preferred Alternative includes areas upstream and/or downstream of proposed structures where energy and erosion control components (channel and a control components) achieve pre-construction stream velocity, water surface elevation and channel stability conditions; no impact to stream flow patterns are expected.	eam and/or downstream of pr ater surface elevation and chi	roposed structures where e annel stability conditions;	or downstream of proposed structures where energy and erosion control components (channel protection) are required to ace elevation and channel stability conditions; no impact to stream flow patterns are expected.	components (channel pi atterns are expected.	rotection) are required to

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Table D. 404/401 Application: Proposed Lowering of Water Quality by the Preferred, Minimal, and Non-Degradation Alternatives.

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Alternatives.	
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on; Proposed Stream Mitigatic	
Table E. 404/401 Applicatio	
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		LAK-2				LAK-2-3.3	LAK-2-3.32; PID 13486 October 2007	October 2007
Stream	Turned I anoth	Tyne of Mitiaation <sup>t</sup>	Watershed (8 Digit HUC)	Digit HUC)	OHEI Score	HHEI Score	Mitigated Length	Length <sup>1</sup>
Name	runbacten rengun	Type of Mingation	Impacted	Mitigated <sup>1</sup>	VILEI OUIC		On-site	Off-site
Stream 1	65 linear feet (Preferred Alternative); 70 linear feet (Minimal Degradation Alternative)	N/A	04110003	N/A	N/A	56	N/A	N/A
Stream 2	50 linear feet (Preferred Alternative); 40 linear feet (Minimal Degradation Alternative)	N/A	04110003	N/A	N/A	64	N/A	N/A
Stream 3	907 linear feet (Preferred Alternative); 907 linear feet (Minimal Degradation Alternative)	N/A	04110003	N/A	N/A	45	N/A	N/A
Stream 4	1,960 linear feet (Preferred Alternative); 1,050 linear feet (Minimal Degradation Alternative)	N/A	04110003	N/A	N/A	50	N/A	N/A
Stream 5	50 linear feet (Preferred Alternative); 33 linear feet (Minimal Degradation Alternative)	N/A	04110003	N/A	N/A	64	N/A	N/A
Stream 6	129 linear feet (Preferred Alternative); 65 linear feet (Minimal Degradation Alternative)	N/A	04110003	N/A	64.25	N/A	N/A	N/A
Stream 8	61 linear feet (Preferred Alternative); 70 linear feet (Minimal Degradation Alternative)	N/A	04110003	N/A	N/A	14	N/A	N/A
Stream 9	120 linear feet (Preferred Alternative); 120 linear feet (Minimal Degradation Alternative)	N/A	04110003	N/A	N/A	78	N/A	N/A
Stream 10	240 linear feet (Preferred Alternative); 240 linear feet (Minimal Degradation Alternative)	N/A	04110003	N/A	N/A	24	N/A	N/A
Stream 12	161 linear feet (Preferred Alternative); 161 linear feet (Minimal Degradation Alternative)	N/A	04110003	N/A	N/A	69	N/A	N/A
Stream 13	108 linear feet (Preferred Alternative); 85 linear feet (Minimal Degradation Alternative)	N/A	04110003	N/A	N/A	51	N/A	N/A
Stream 14	150 linear feet (Preferred Alternative); 105 linear feet (Minimal Degradation Alternative)	N/A	04110003	N/A	N/A	56	N/A	N/A
Stream 15	320 linear feet (Preferred Alternative); 320 linear feet (Minimal Degradation Alternative)	N/A	04110003	N/A	57.5	N/A	N/A	N/A
Stream 16	285 linear feet (Preferred Alternative); 281 linear feet (Minimal Degradation Alternative)	N/A	04110003	N/A	56	N/A	N/A	N/A
Stream 17	80 linear feet (Preferred Alternative); No impact (Minimal Degradation Alternative)	N/A	04110004	N/A	64.25	N/A	N/A	N/A
Stream 18	450 linear feet (Preferred Alternative); No impact (Minimal Degradation Alternative)	N/A	04110003	N/A	N/A	35	N/A	N/A
1 ODOT has 1	ODOT has proposed two stream mitigation projects to mitigate for the impacts off-site - the Gully Brook Property and the purchase of a conservation easement in the Grand River watershed	npacts off-site – the Gully	Brook Property an	nd the purchase o	f a conservation	easement in the G	Grand River wat	ershed.

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and Mitigation for the Pref
Proposed Wetland
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	Table F. 404/401 Application: Propose	oposed Wetland Mitig	d Wetland Mitigation for the Preferred and Minimal Degradation Alternatives. LAK-2-3.3	ferred and Minin	nal Degradati	on Alternatives. LAK-2-3.32	lternatives. LAK-2-3.32; PID_13486 September 2007	ptember 2007
Wetland		Type of Wetland	Watershed (8 Digit HUC)	Digit HUC)	ORAM	OEPA	Mitigat	Mitigated Area
No.	Impacted Area	(Isolated/Non- Isolated)	Impacted	Mitigated <sup>1</sup>	v5.0 Score	Category	On-site	Off-site <sup>1</sup>
e	0.03 acres (Preferred Alternative); No Impact (Minimal Degradation Alternative)	Isolated	04110003	N/A	22	Category 1	N/A	N/A
4/5	0.06 acres (Preferred Alternative); 0.02 acres (Minimal Degradation)	Non-Isolated	04110003	N/A	38/29	Modified Category 2/ Category 1	N/A	0.04
7	1.92 acres (Preferred Alternative); 1.92 acres (Minimal Degradation Alternatives)	Non-Isolated	04110003	N/A	27	Category 1	N/A	2.88
11	0.15 acres (Preferred Alternative); 0.01 acres (Minimal Degradation Alternative)	Non-Isolated	04110003	N/A	22	Category 1	N/A	0.02
12	1.47 acres (Preferred Alternative); 1.41 acres (Minimal Degradation Alternative)	Non-Isolated	04110003	N/A	24	Category 1	N/A	2.12
13	0.07 acres (Preferred Alternative); 0.01 acres (Minimal Degradation Alternative)	Isolated	04110003	N/A	17	Category 1	N/A	0.02
17/18	0.06 acres (Preferred Alternative); No Impact (Minimal Degradation Alternative)	Non-Isolated	04110003	N/A	33/43	Modified Category 2	N/A	N/A
19	0.01 acres (Preferred Alternative); No Impact (Minimal Degradation Alternative	Isolated	04110003	N/A	23	Category 1	N/A	N/A
20	0.01 acres (Preferred Alternative); No Impact (Minimal Degradation Alternative)	Isolated	04110003	N/A	24	Category 1	N/A	N/A
21	0.17 acres (Preferred Alternative); 0.12 acres (Minimal Degradation Alternative)	Non-Isolated	04110003	N/A	6	Category 1	N/A	0.18
23	0.65 (Preferred Alternative); No Impact (Minimal Degradation Alternative)	Non-Isolated	04110004	N/A	36	Modified Category 2	N/A	N/A
30	0.07 acres (Preferred Alternative); 0.05 acres (Minimal Degradation Alternative)	Non-Isolated	04110003	N/A	7	Category 1	N/A	0.08
<sup>1</sup> The acreage	<sup>1</sup> The acreages are for the minimal degradation alternative only.							

Resource	Acres/Feet Impacted (Alt)	Total Resource (acres/miles)	Volume of Fill (CY)	% Avoided
Stream 1	0.061 acres/65 linear feet (Preferred Alternative) 0.065 acres/70 linear feet (Minimal Degradation Alternative)	2.28 miles	51 CY (Preferred Alternative) 55 CY (Minimal Degradation Alternative)	99.42% (Preferred Alternative) 99.40% (Minimal Degradation Alternative)
Stream 2	0.018 acres/50 linear feet (Preferred Alternative) 0.014 acres/40 linear feet (Minimal Degradation Alternative)	0.93 miles	25 CY (Preferred Alternative) 70 CY (Minimal Degradation Alternative)	98.98% (Preferred Alternative) 99.10% (Minimal Degradation Alternative)
Stream 3	0.883 acres/907 linear feet (Preferred Alternative) 0.883 acres/907 linear feet (Minimal Degradation Alternative)	0.63 miles	2,045 CY (Preferred Alternative) 2,045 CY (Minimal Degradation Alternative)	72.73% (Preferred Alternative) 72.70% (Minimal Degradation Alternative)
Stream 4	0.405 acres/1,960 linear feet (Preferred Alternative 0.217 acres/1,050 linear feet (Minimal Degradation Alternative)	0.75 miles	0 CY (Preferred Alternative) 0 CY (Minimal Degradation Alternative)	50.51% (Preferred Alternative) 73.50% (Minimal Degradation Alternative)
Stream 5	0.016 acres/50 linear feet (Preferred Alternative) 0.010 acres/33 linear feet (Minimal Degradation Alternative)	0.40 miles	30 CY (Preferred Alternative) 20 CY (Minimal Degradation Alternative)	97.63% (Preferred Alternative) 98.50% (Minimal Degradation Alternative)
Stream 6	0.034 acres/129 linear feet (Preferred Alternative) 0.034 acres/65 linear feet (Minimal Degradation Alternative)	5 miles	55 CY (Preferred Alternative) 55 CY (Minimal Degradation Alternative)	99.51% (Preferred Alternative) >99.99% (Minimal Degradation Alternative)
Stream 8	0.017 acres/61 linear feet (Preferred Alternative) 0.020 acres/70 linear feet (Minimal Degradation Alternative)	0.69 miles	17 CY (Preferred Alternative) 20 CY (Minimal Degradation Alternative)	98.33% (Preferred Alternative) 99.98% (Minimal Degradation Alternative)
Stream 9	0.049 acres/125 linear feet (Preferred Alternative) 0.046 acres/120 linear feet (Minimal Degradation Alternative	2.05 miles	78 CY (Preferred Alternative) 75 CY (Minimal Degradation Alternative)	98.85% (Preferred Alternative) 98.88% (Minimal Degradation Alternative)
Stream 10	0.370 acres/240 linear feet (Preferred Alternative) 0.370 acres/240 linear feet (Minimal Degradation Alternative)	7.03 miles	0 CY (Preferred Alternative) 0 CY (Minimal Degradation Alternative)	99.35% (Preferred Alternative) 99.94% (Minimal Degradation Alternative)
Stream 12	0.069 acres/161 linear feet (Preferred Alternative) 0.055 acres/161 linear feet (Minimal Degradation Alternative)	1.79 miles	305 CY (Preferred Alternative) 240 CY (Minimal Degradation Alternative)	98.30% (Preferred Alternative) 98.30% (Minimal Degradation Alternative)
Stream 13	0.027 acres/108 linear feet (Preferred Alternative) 0.021 acres/85 linear feet (Minimal Degradation Alternative)	6.60 miles	190 CY (Preferred Alternative) 150 CY (Minimal Degradation Alternative)	99.69% (Preferred Alternative) 99.95% (Minimal Degradation Alternative)

Table G. 404/401 Application: Impacts and Avoidance Estimations.

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Resource	Acres/Feet Impacted (Alt)	Total Resource (acres/miles)	Volume of Fill (CY)	% Avoided
Stream 14	0.059 acres/150 linear feet (Preferred Alternative) 0.041 acres/105 linear feet (Minimal Degradation Alternative)	3.35 miles	220 CY (Preferred Alternative) 155 CY (Minimal Degradation Alternative)	99.15% (Preferred Alternative) 99.40% (Minimal Degradation Alternative)
Stream 15	0.378 acres/320 linear feet (Preferred Alternative) 0.378 acres/320 linear feet (Minimal Degradation Alternative)	3.79 miles	975 CY (Preferred Alternative) 975 CY (Minimal Degradation Alternative)	98.40% (Preferred Alternative) 98.39% (Minimal Degradation Alternative)
Stream 16	0.178 acres/285 linear feet (Preferred Alternative) 0.175 acres/281 linear feet (Minimal Degradation Alternative)	47.9 milęs	522 CY (Preferred Alternative) 515 CY (Minimal Degradation Alternative)	>99.99% (Preferred Alternative) >99.99% (Minimal Degradation Alternative)
Stream 17	0.056 acres/80 linear feet (Preferred Alternative) No Impact (Minimal Degradation Alternative)	2.40 miles	272 CY (Preferred Alternative) 170 CY (Minimal Degradation Alternative)	99.37% (Preferred Alternative) 100% (Minimal Degradation
Stream 18	0.341 acres/450 linear feet (Preferred Alternative) No Impact (Minimal Degradation Alternarive)	0.56 miles	1,585 CY (Preferred Alternative) 0 CY (Minimal Degradation Alternative)	84.78% (Preferred Alternative) 100% (Minimal Degradation Alternative)
Wetland 3	0.03 acres (Preferred Alternative) No Impact (Minimal Degradation Alternative)	0.47 acres	24 CY (Preferred Alternative) 0 CY (Minimal Degradation Alternative)	93.62% (Preferred Alternative) 100% (Minimal Degradation Alternative)
Wetland 4/5	0.06 acres (Preferred Alternative) 0.02 acres (Minimal Degradation Alternative)	1.48 acres	0 CY (Preferred Alternative) 0 CY (Minimal Degradation Alternative)	95.95% (Preferred Alternative) 98.65% (Minimal Degradation Alternative)
Wetland 7	1.92 acres (Preferred Alternative) 1.92 acres (Minimal Degradation Alternative)	2.23 acres	27,023 CY (Preferred Alternative) 27,023 CY (Minimal Degradation Alternative)	<ul><li>13.99% (Preferred Alternative)</li><li>13.99% (Minimal Degradation Alternative)</li></ul>
Wetland 11	0.15 acres (Preferred Alternative) 0.01 acres (Minimal Degradation Alternative)	2.40 acres	0 CY (Preferred Alternative) 0 CY (Minimal Degradation Alternative)	93.75% (Preferred Alternative) 99.58% (Minimal Degradation Alternative)
Wetland 12	1.47 acres (Preferred Alternative) 1.41 acres (Minimal Degradation Alternative)	1.64 acres	5,444 CY (Preferred Alternative) 5,222 CY (Minimal Degradation Alternative)	10.37% (Preferred Alternative) 14.02% (Minimal Degradation Alternative)
Wetland13	0.07 acres (Preferred Alternative) 0.01 acres (Minimal Degradation Alternative)	0.71 acres	0 CY (Preferred Alternative) 0 CY (Minimal Degradation Alternative)	90.14% (Preferred Alternative) 98.59% (Minimal Degradation Alternative)

Table G. 404/401 Application: Impacts and Avoidance Estimations.

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Resource	Acres/Feet Impacted (Alt)	Total Resource (acres/miles)	Volume of Fill (CY)	% Avoided
Wetland 17/18	0.06 acres (Preferred Alternative) No Impact (Minimal Degradation Alternative)	8.69 acres	0 CY (Preferred Alternative) 0 CY (Minimal Degradation Alternative)	99.31% (Preferred Alternative) 100% (Minimal Degradation Alternative)
Wetland 19	0.01 acres (Preferred Alternative) No Impact (Minimal Degradation Alternative)	0.07 acres	0 CY (Preferred Alternative) 0 CY (Minimal Degradation Alternative)	85.71% (Preferred Alternative) 100% (Minimal Degradation Alternative)
Wetland 20	0.01 acres (Preferred Alternative) No Impact (Minimal Degradation Alternative)	0.12 acres	0 CY (Preferred Alternative) 0 CY (Minimal Degradation Alternative)	91.67% (Preferred Alternative) 100% (Minimal Degradation Alternative)
Wetland 21	0.17 acres (Preferred Alternative) 0.12 acres (Minimal Degradation Alternative)	0.20 acres	0 CY (Preferred Alternative) 0 CY (Minimal Degradation Alternative)	15% (Preferred Alternative) 67.57% (Minimal Degradation Alternative)
Wetland 23	0.65 acres (Preferred Alternative) No Impact (Minimal Degradation Alternative)	0.85 acres	0 CY (Preferred Alternative) 0 CY (Minimal Degradation Alternative)	33.52% (Preferred Alternative) 100% (Minimal Degradation Alternative)
Wetland 30	0.07 acres (Preferred Alternative) 0.05 acres (Minimal Degradation Alternative)	0.56 acres	114 CY (Preferred Alternative) 50 CY (Minimal Degradation Alternative)	87.5 % (Preferred Alternative) 91.07% (Minimal Degradation Alternative)

Table G. 404/401 Application: Impacts and Avoidance Estimations.

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APPENDIX A: GENERAL MAPS AND DESIGN DRAWINGS

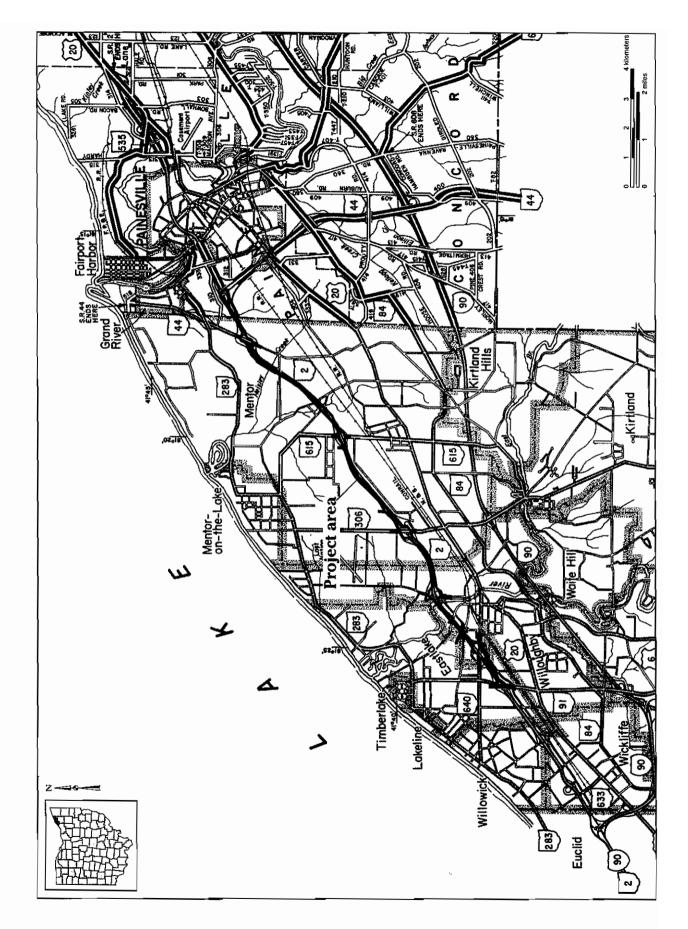


Figure 1. Project Vicinity Map.

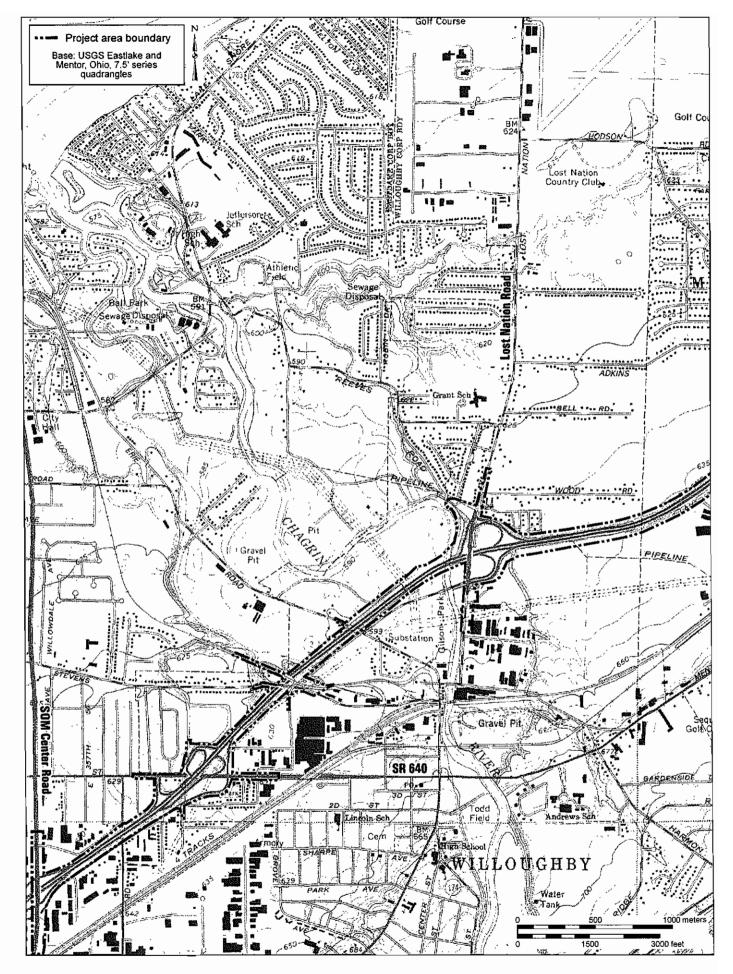


Figure 2. Project Location. (4 sheets)

Figure 2 Sheet 1 of 4

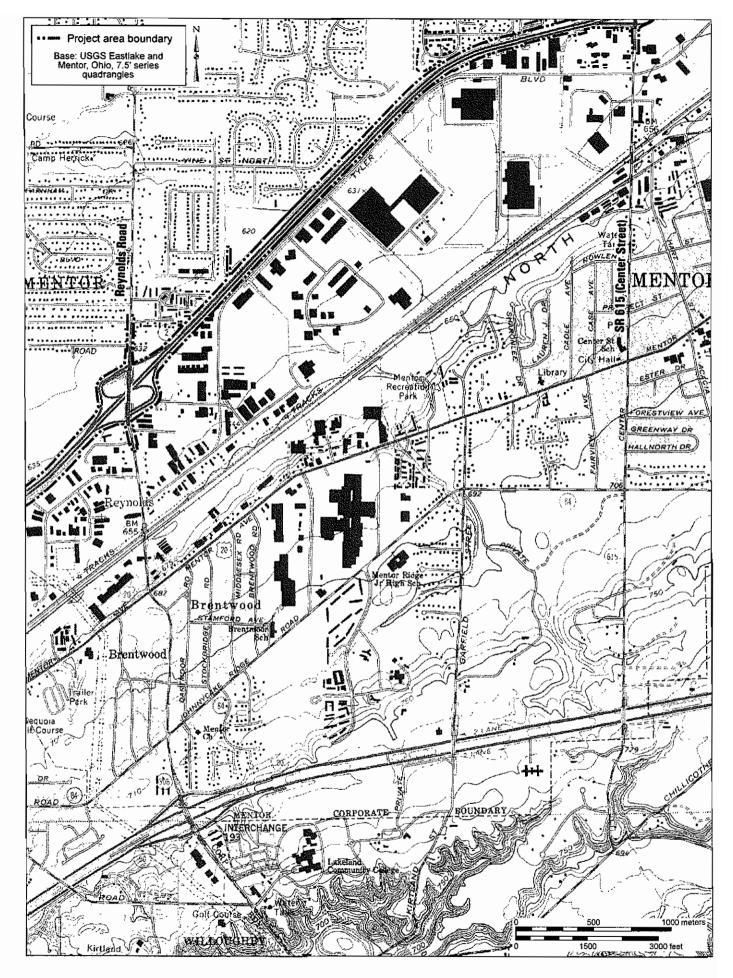


Figure 2. Project Location. (4 sheets)

Figure 2 Sheet 2 of 4

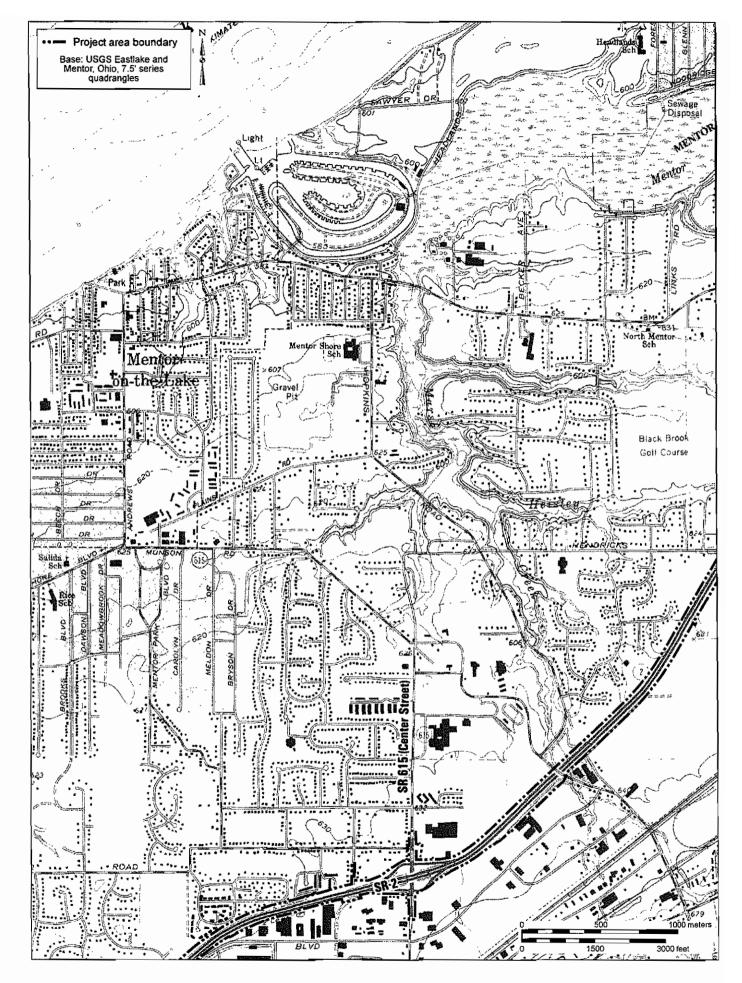


Figure 2 Project Location. (4 sheets)

Figure 2 Sheet 3 of 4

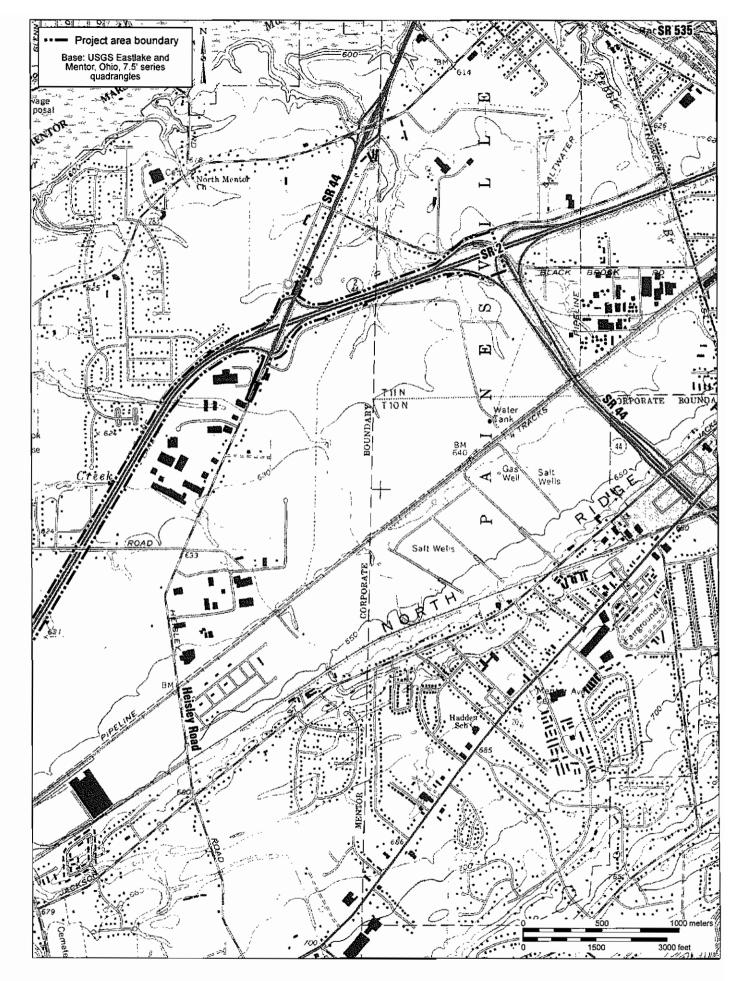


Figure 2 Project Location. (4 sheets)

Figure 2 Sheet 4 of 4

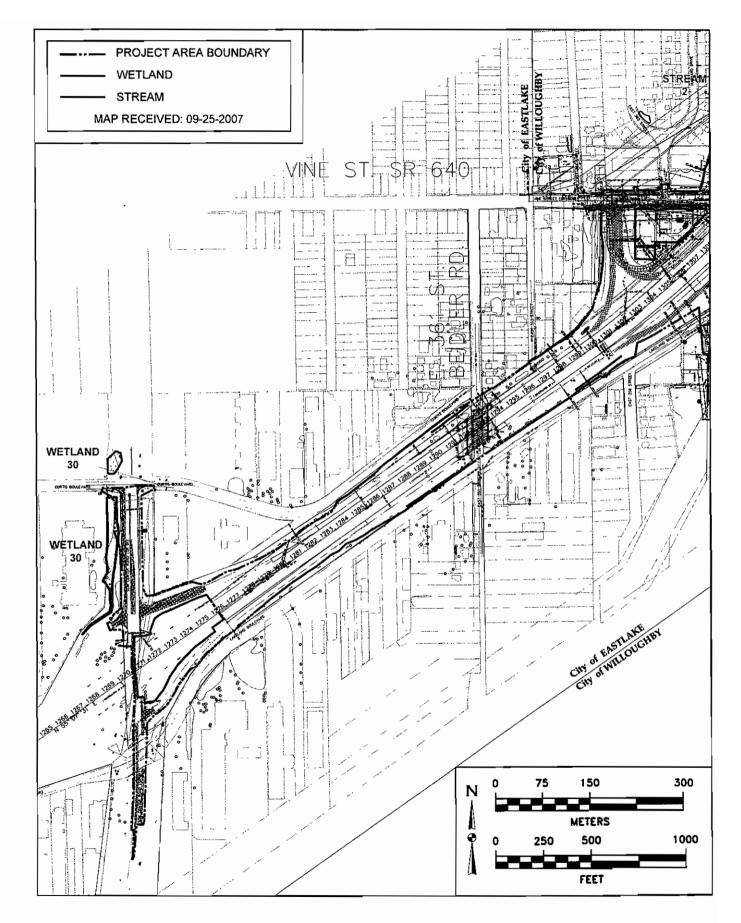


Figure 4. Minimum Degradation Alternative. (14 sheets)

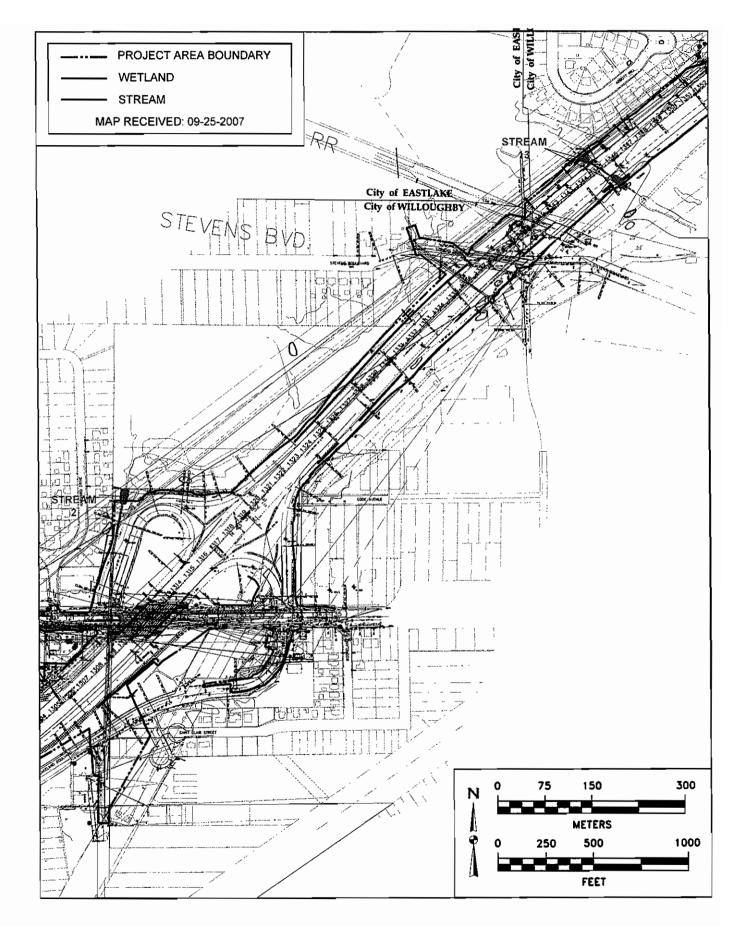


Figure 4. Minimum Degradation Alternative. (14 sheets)

Figure 4 Sheet 2 of 14

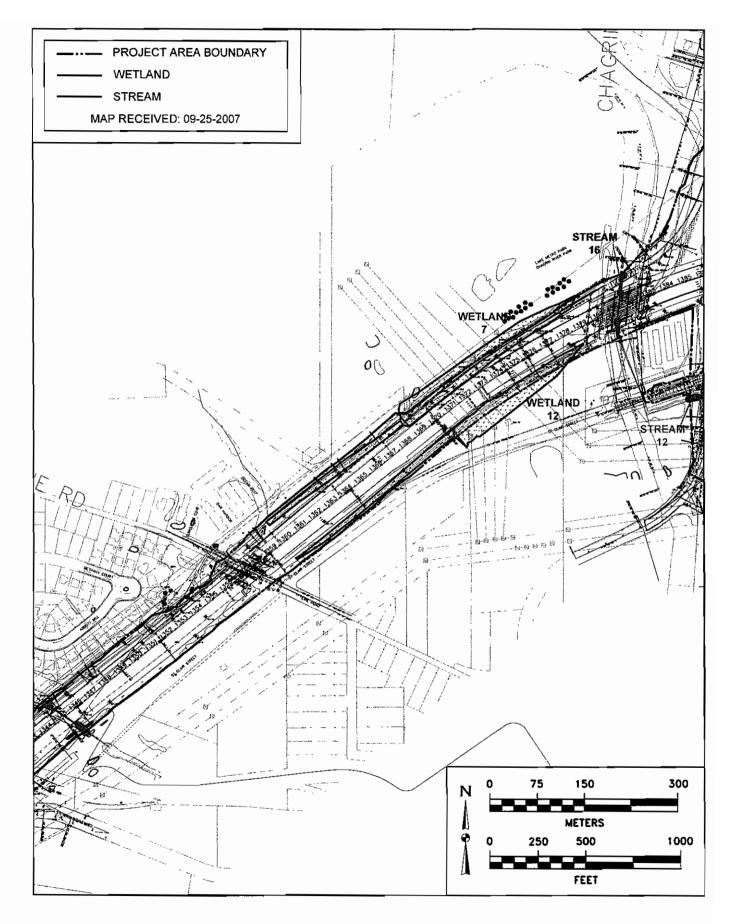


Figure 4. Minimum Degradation Alternative. (14 sheets)

Figure 4 Sheet 3 of 14

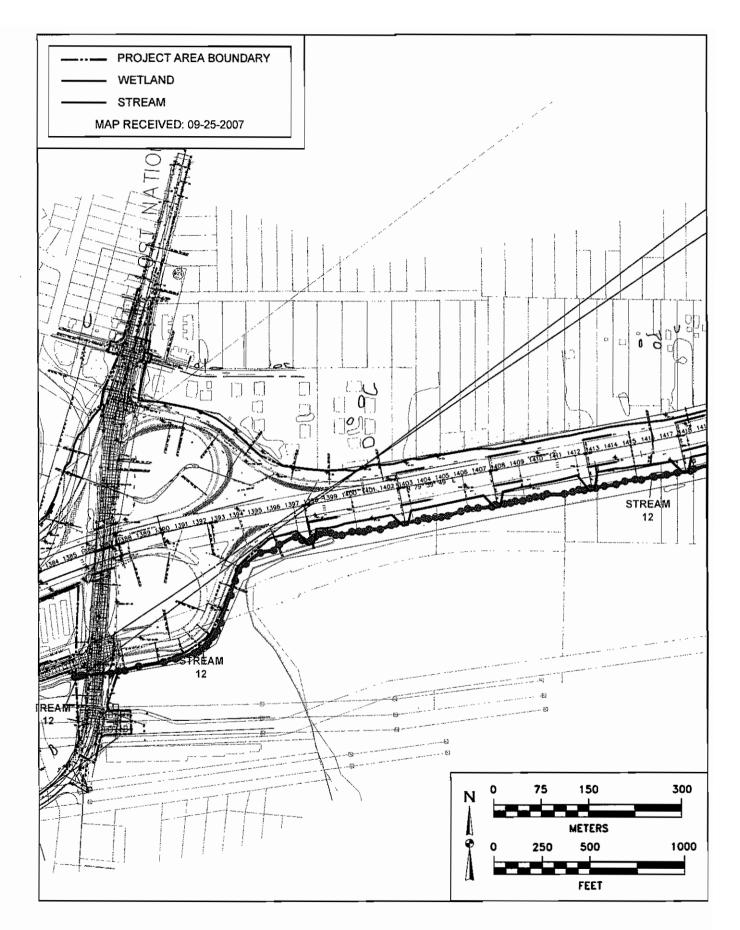


Figure 4. Minimum Degradation Alternative. (14 sheets)

Figure 4 Sheet 4 of 14

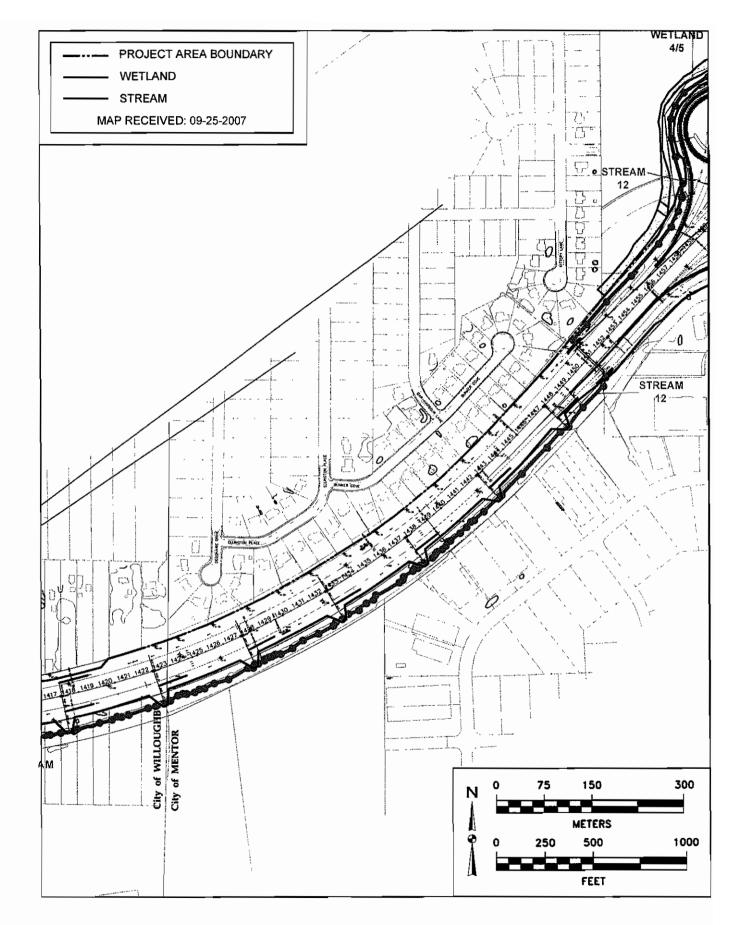


Figure 4. Minimum Degradation Alternative. (14 sheets)

Figure 4 Sheet 5 of 14

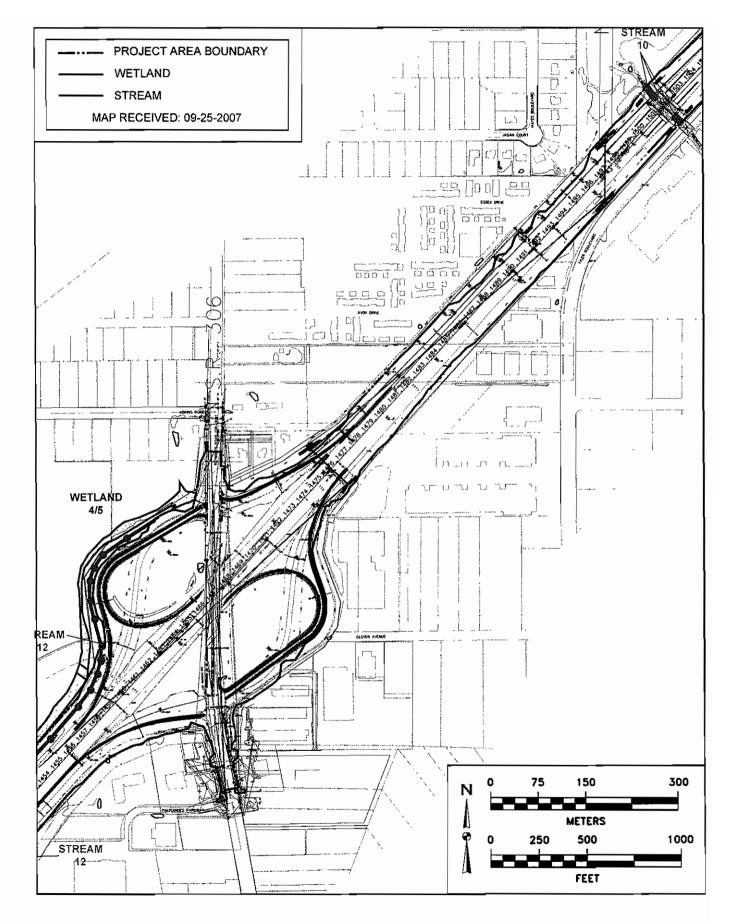


Figure 4. Minimum Degradation Alternative. (14 sheets)

Figure 4 Sheet 6 of 14

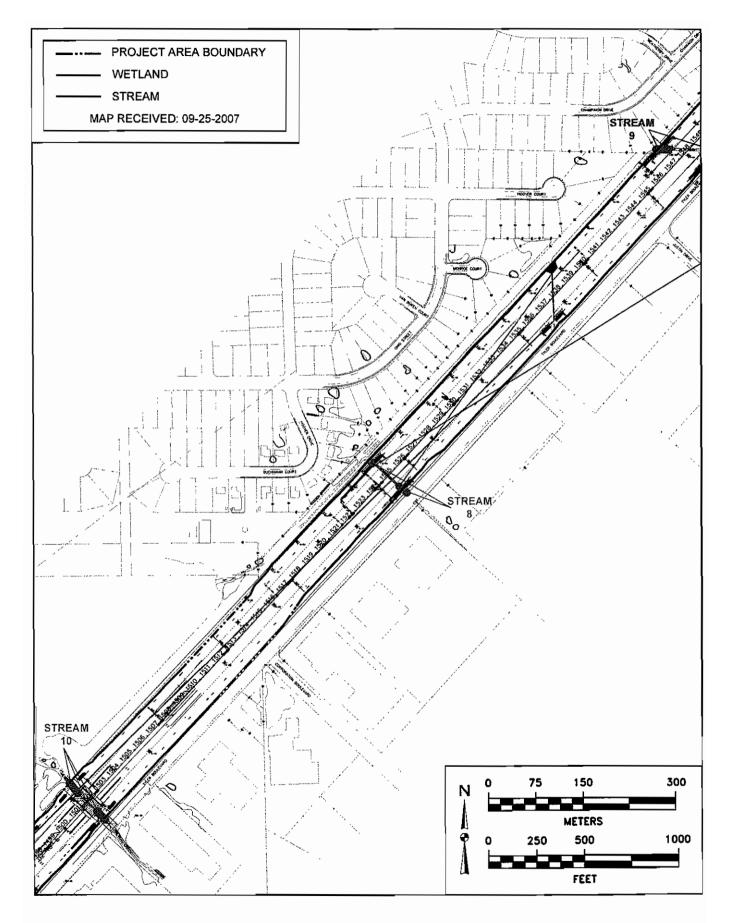


Figure 4. Minimum Degradation Alternative. (14 sheets)

Figure 4 Sheet 7 of 14

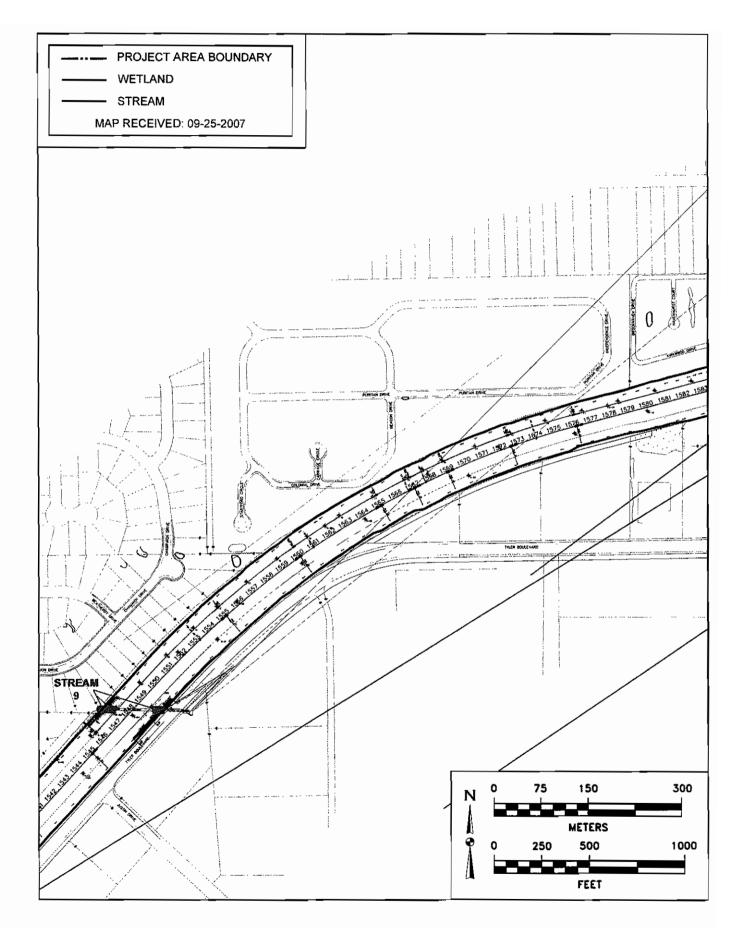


Figure 4. Minimum Degradation Alternative. (14 sheets)

Figure 4 Sheet 8 of 14

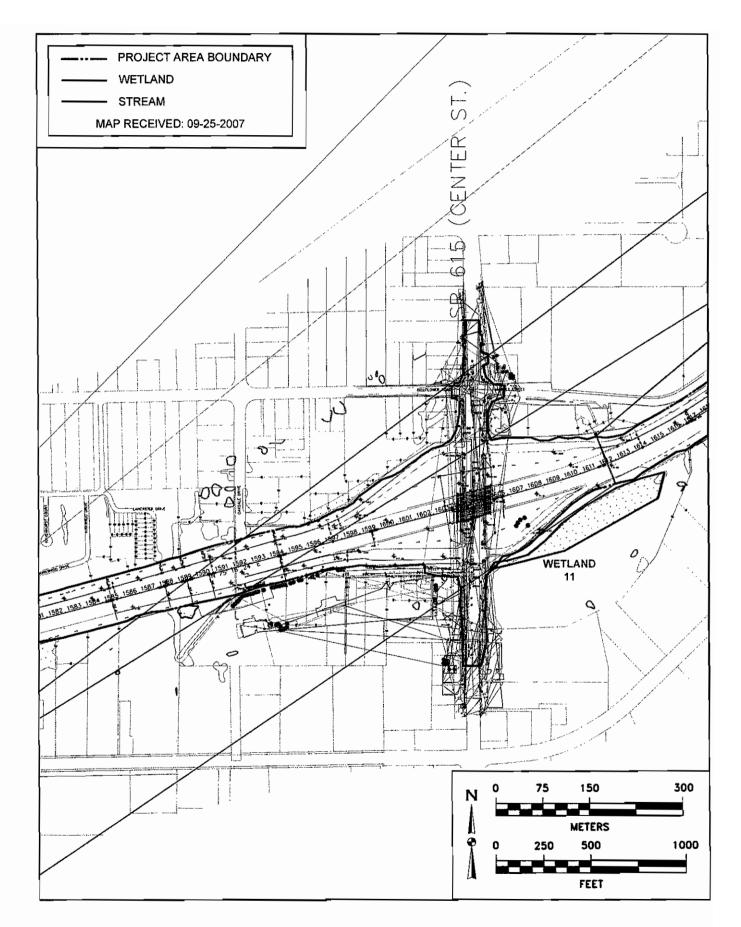


Figure 4. Minimum Degradation Alternative. (14 sheets)

Figure 4 Sheet 9 of 14

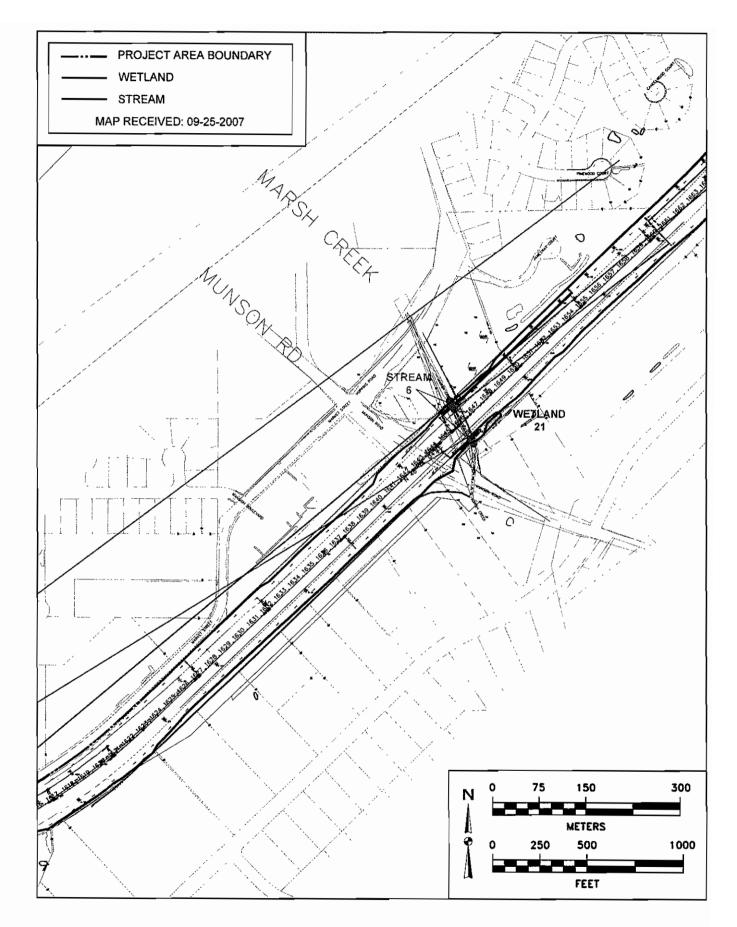


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Figure 4 Sheet 10 of 14

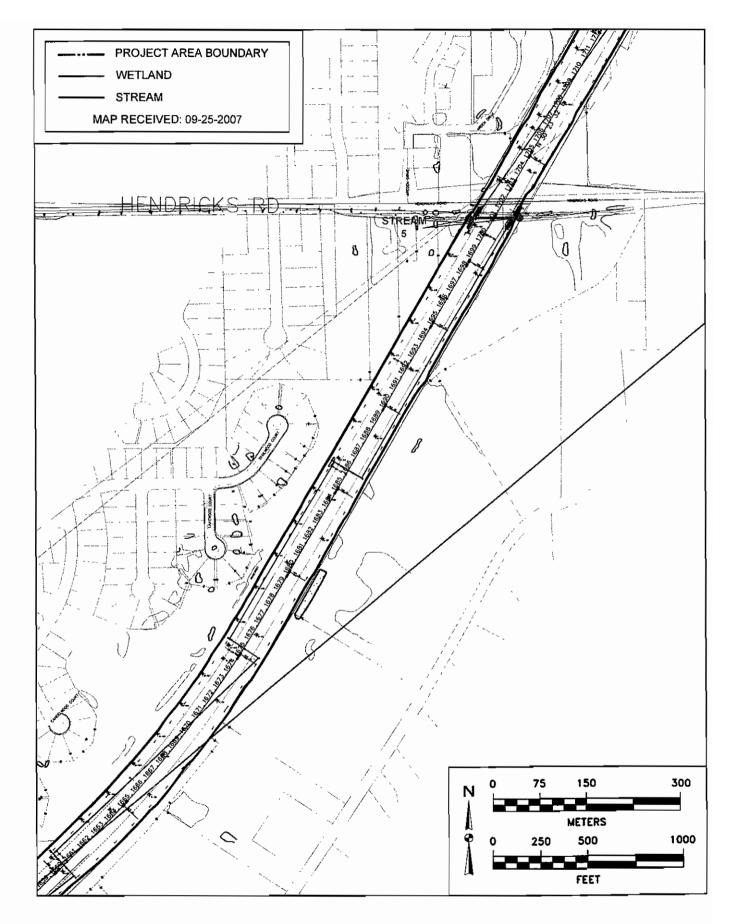


Figure 4. Minimum Degradation Alternative. (14 sheets)

Figure 4 Sheet 11 of 14

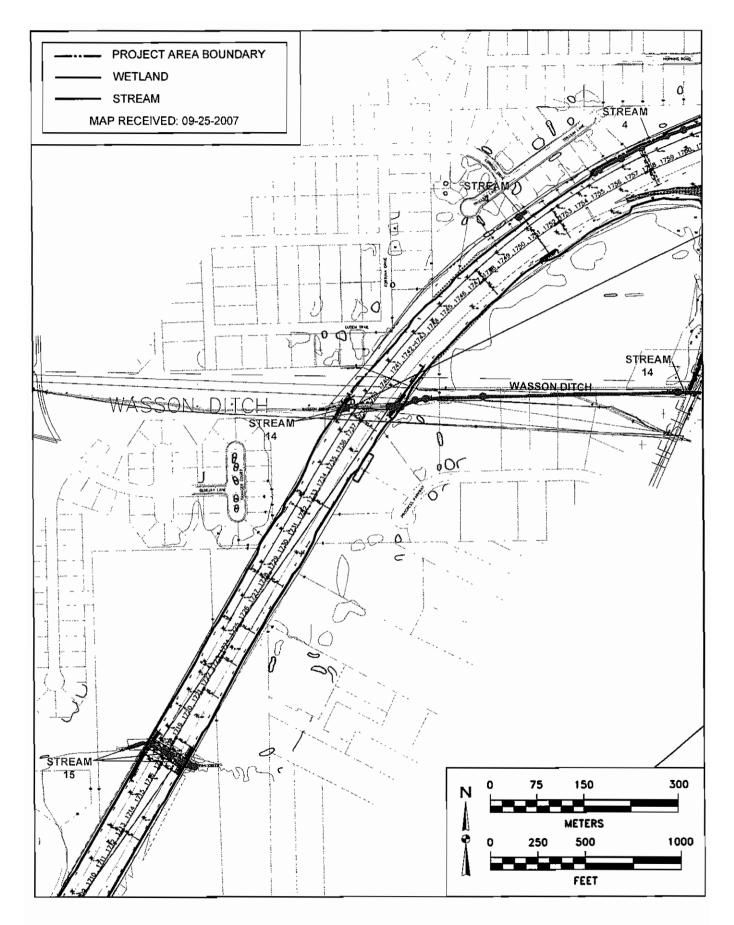


Figure 4. Minimum Degradation Alternative. (14 sheets)

Figure 4 Sheet 12 of 14

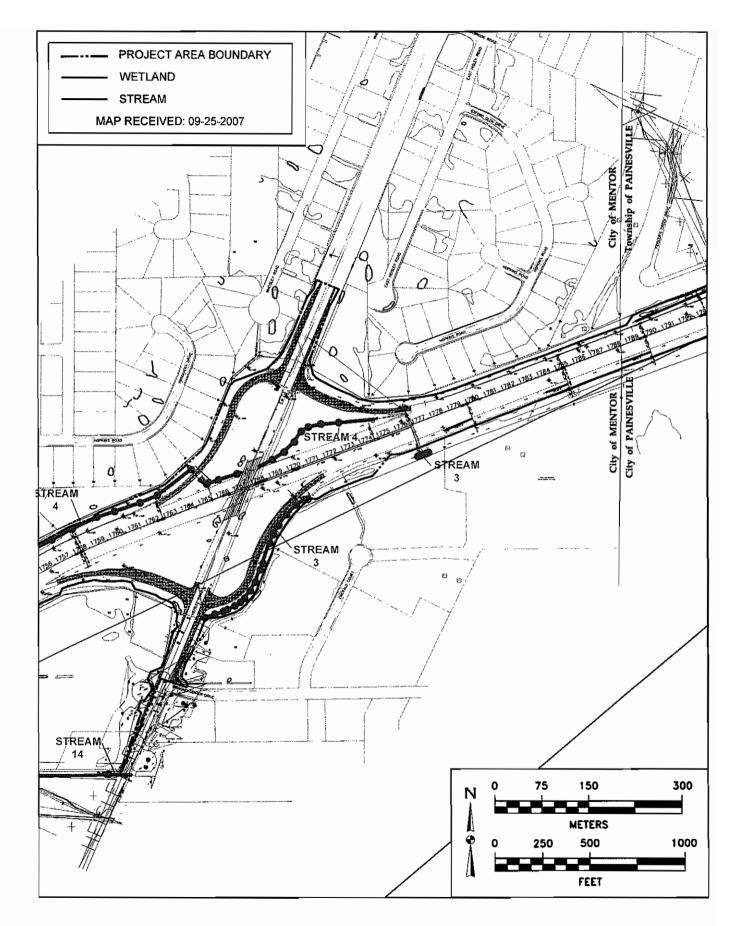


Figure 4. Minimum Degradation Alternative. (14 sheets)

Figure 4 Sheet 13 of 14

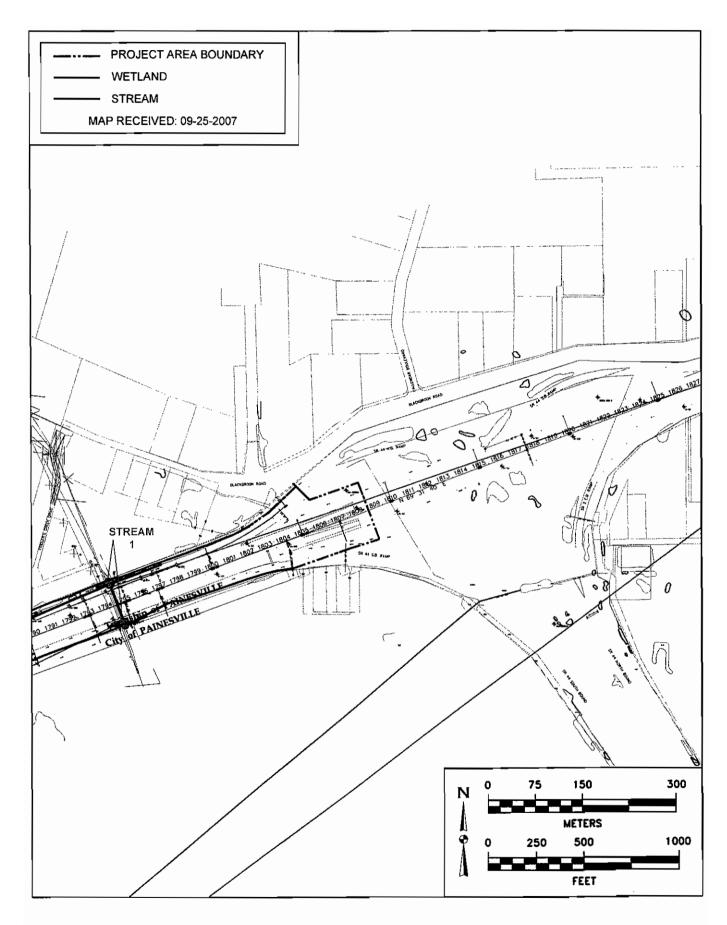
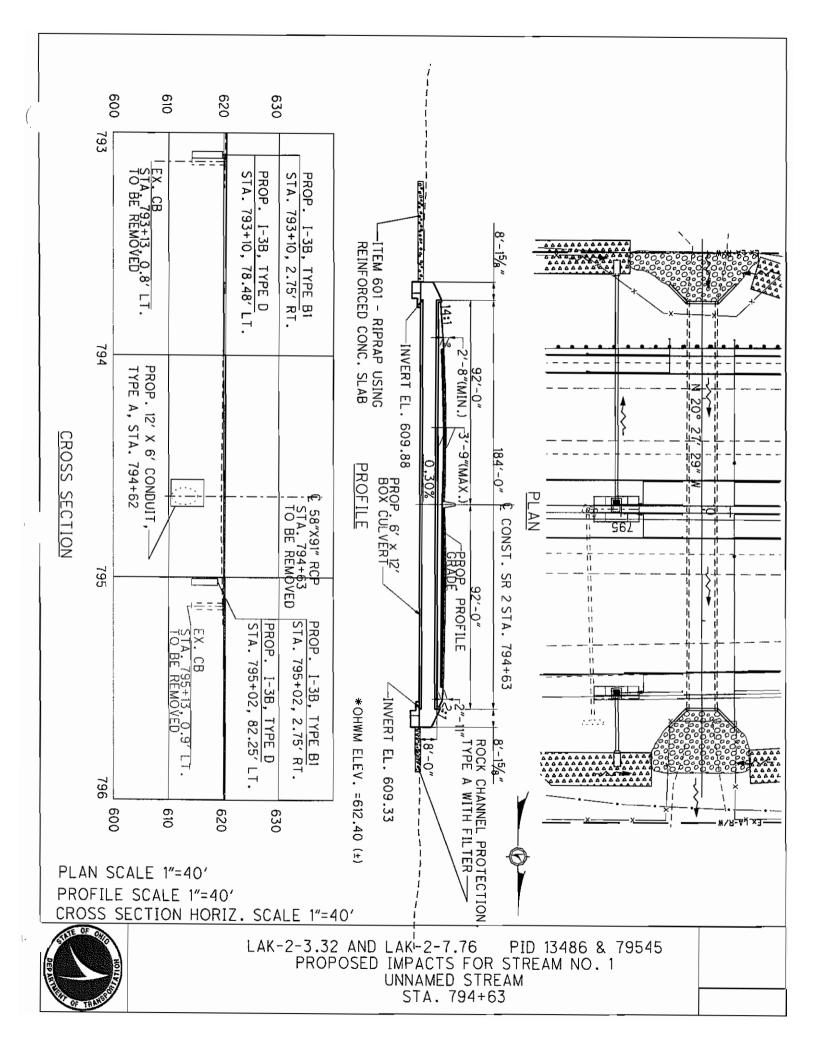


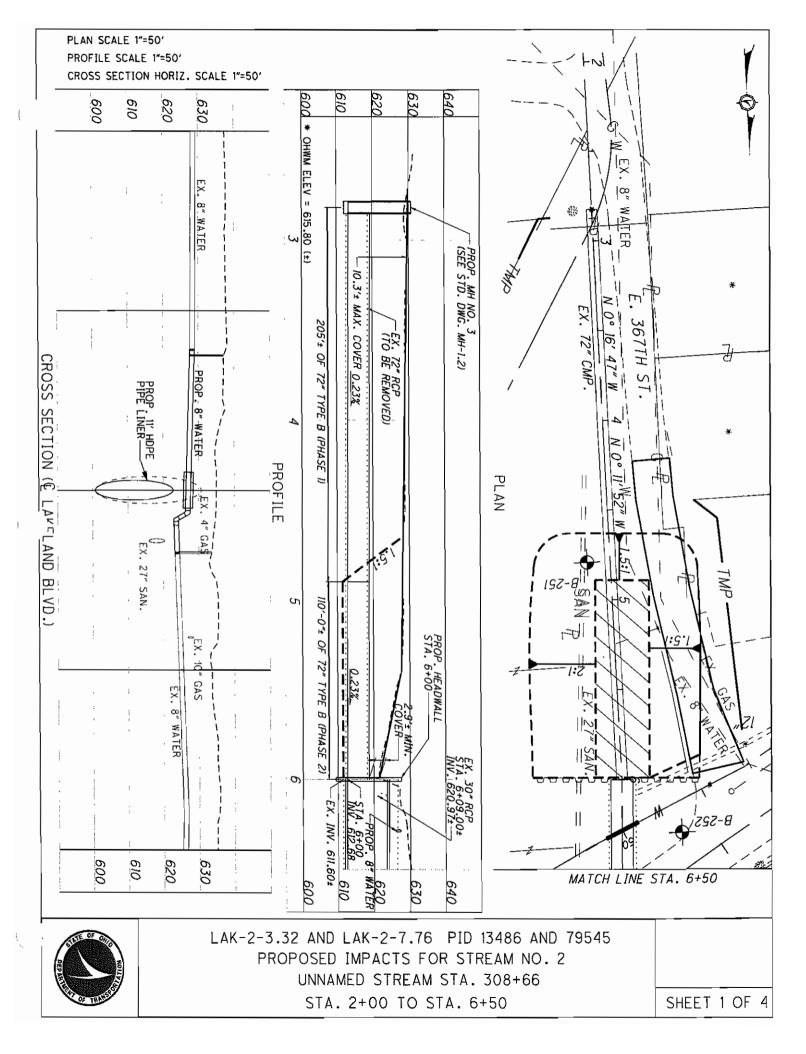
Figure 4. Minimum Degradation Alternative. (14 sheets)

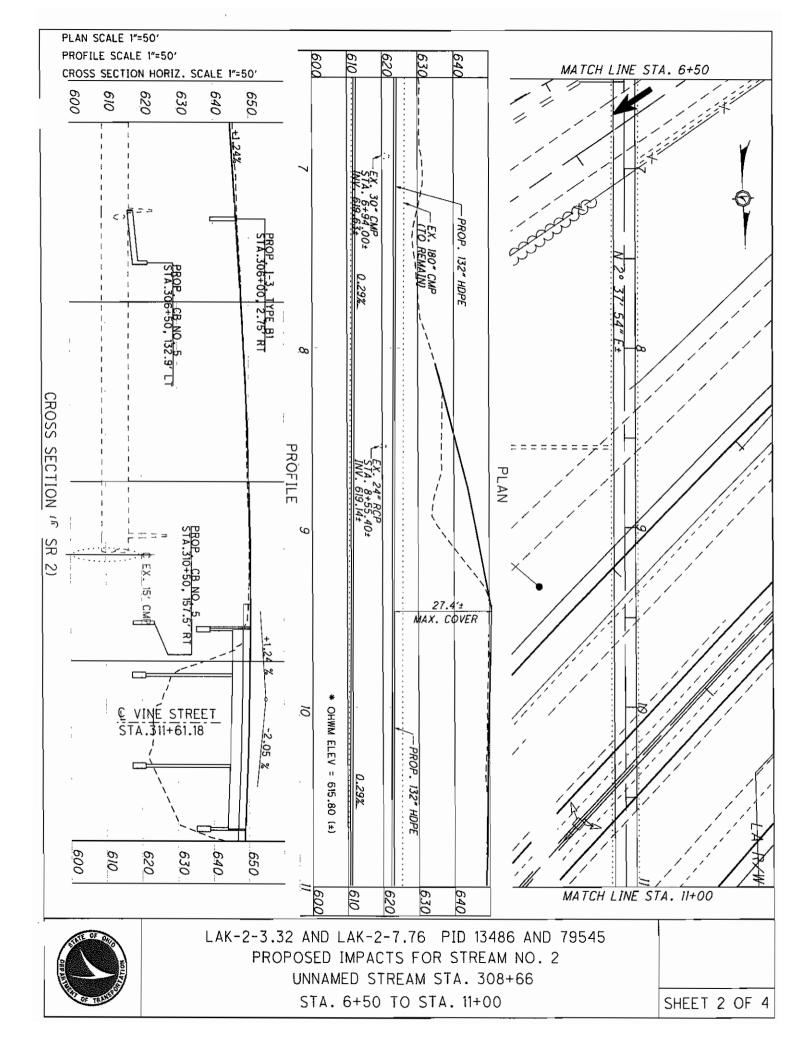
Figure 4 Sheet 14 of 14 Figure 6. Plan views of stream and wetland crossings.

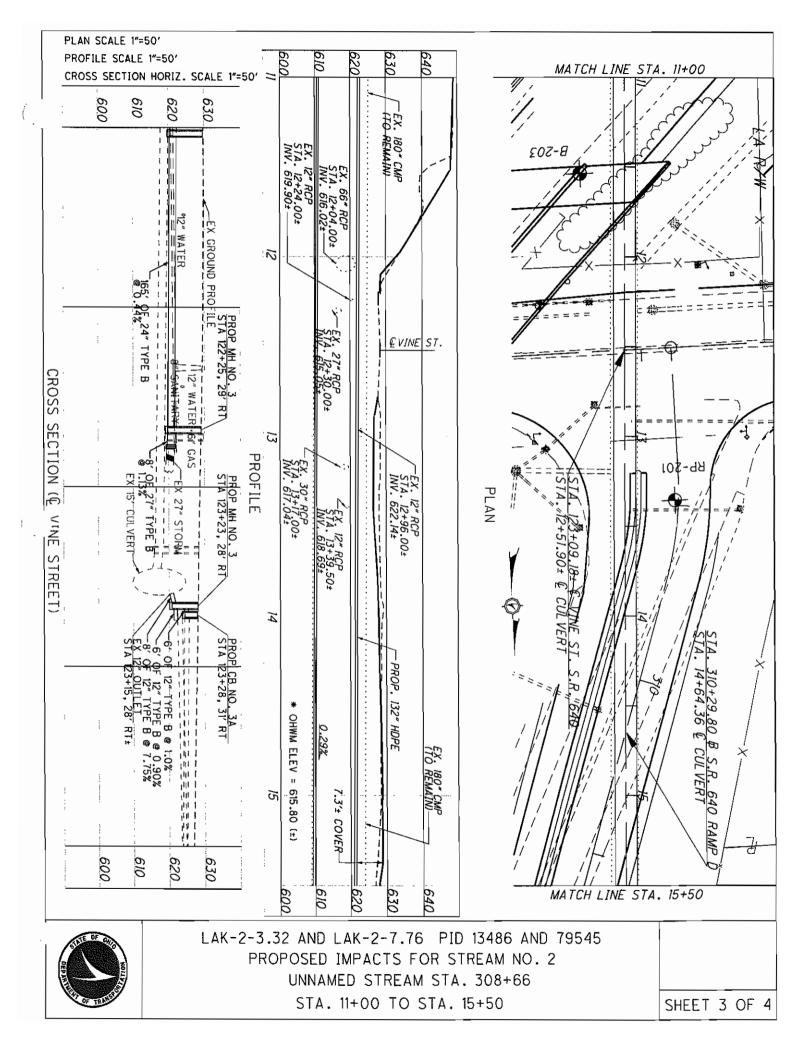
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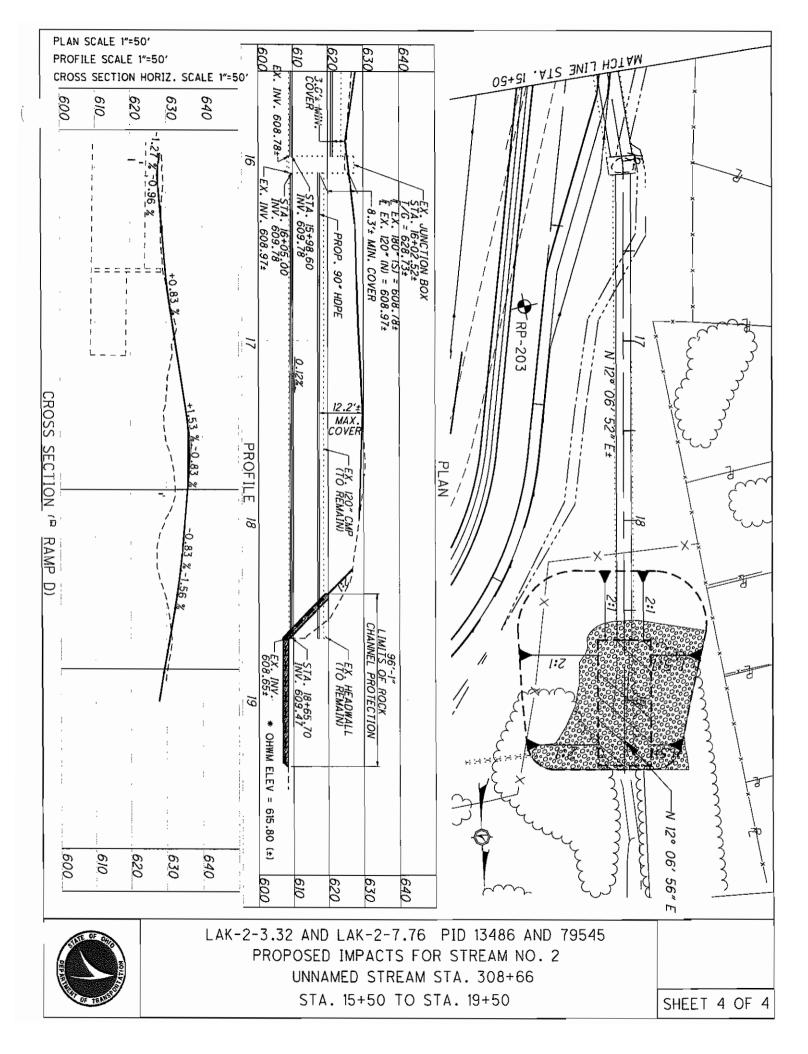
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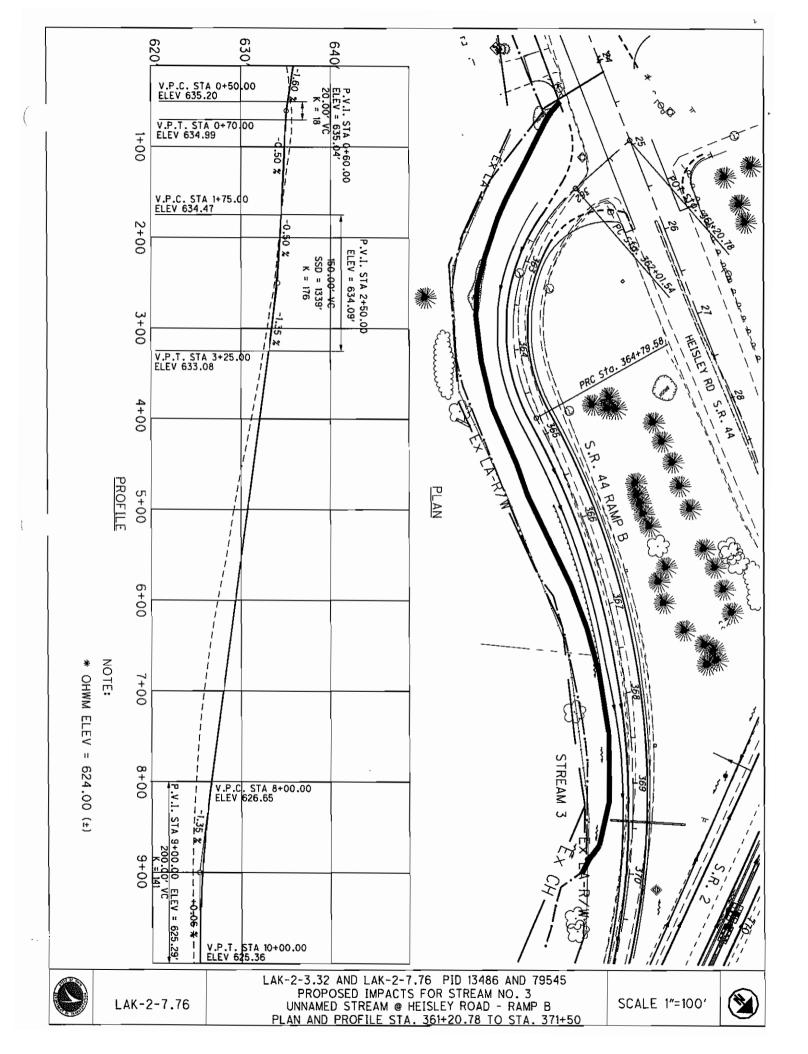


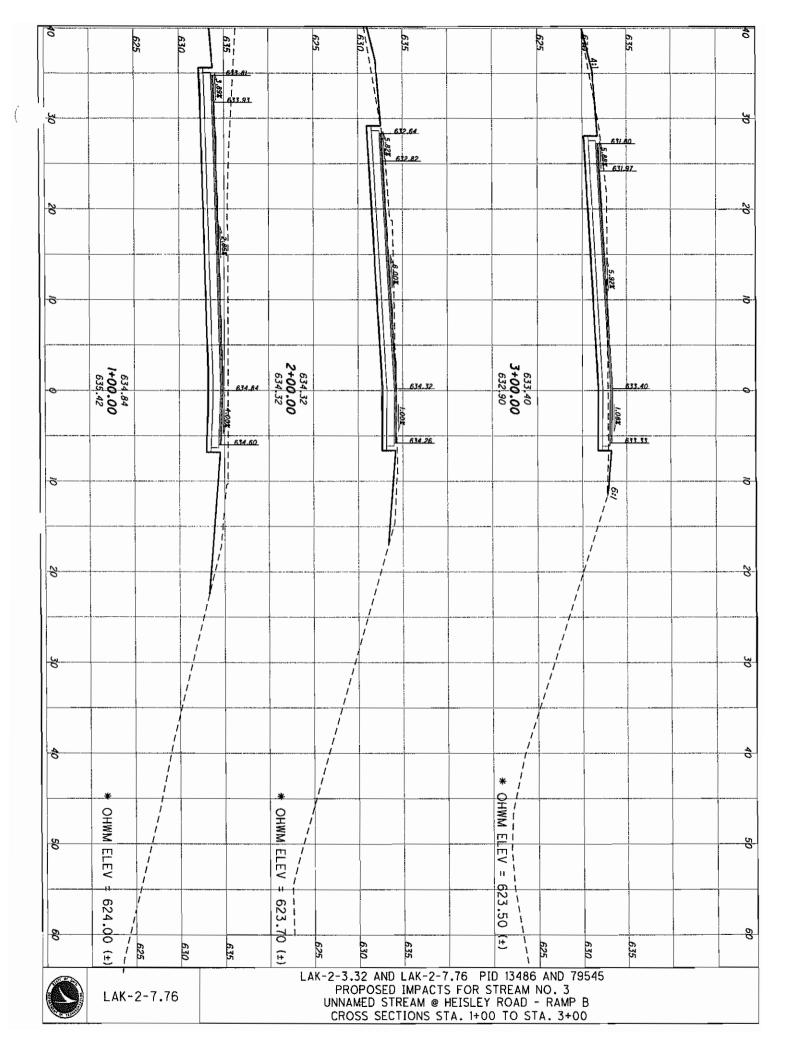


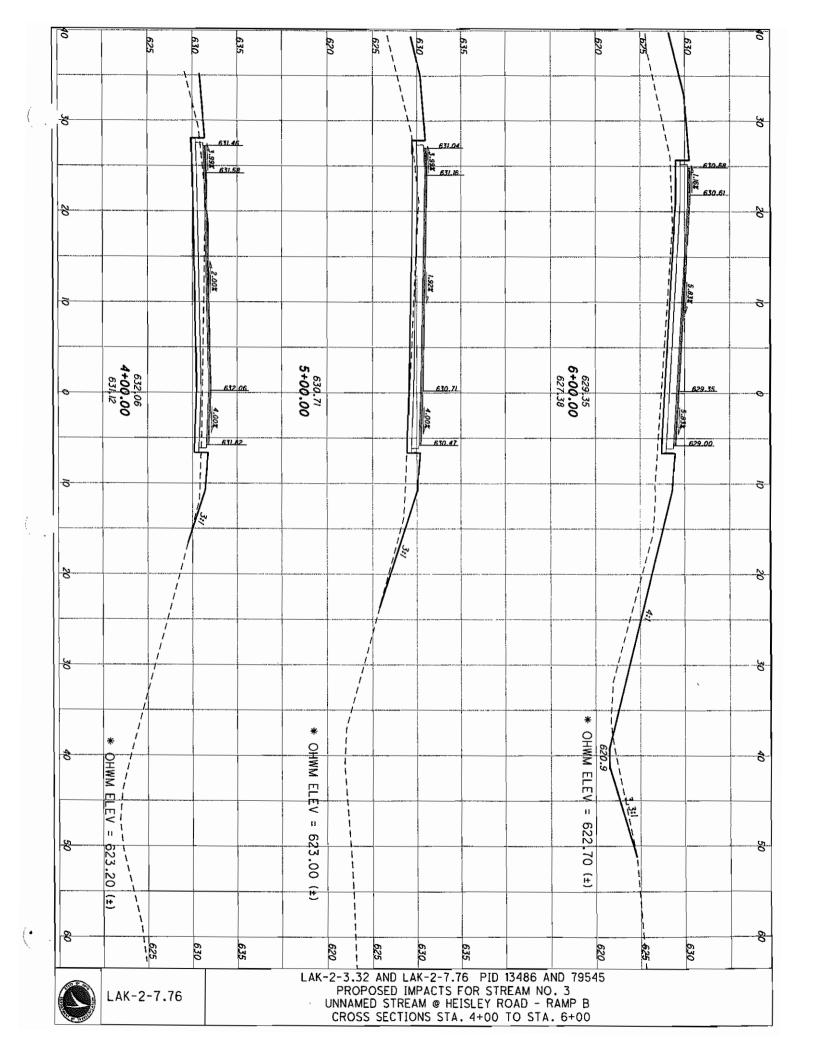


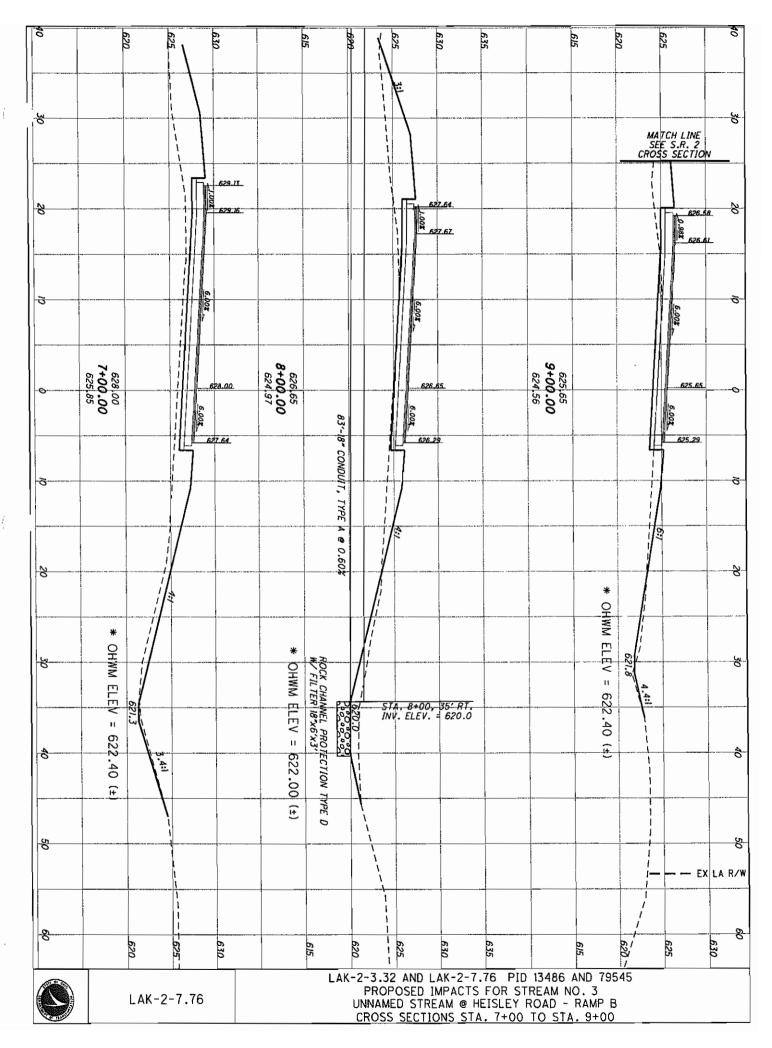


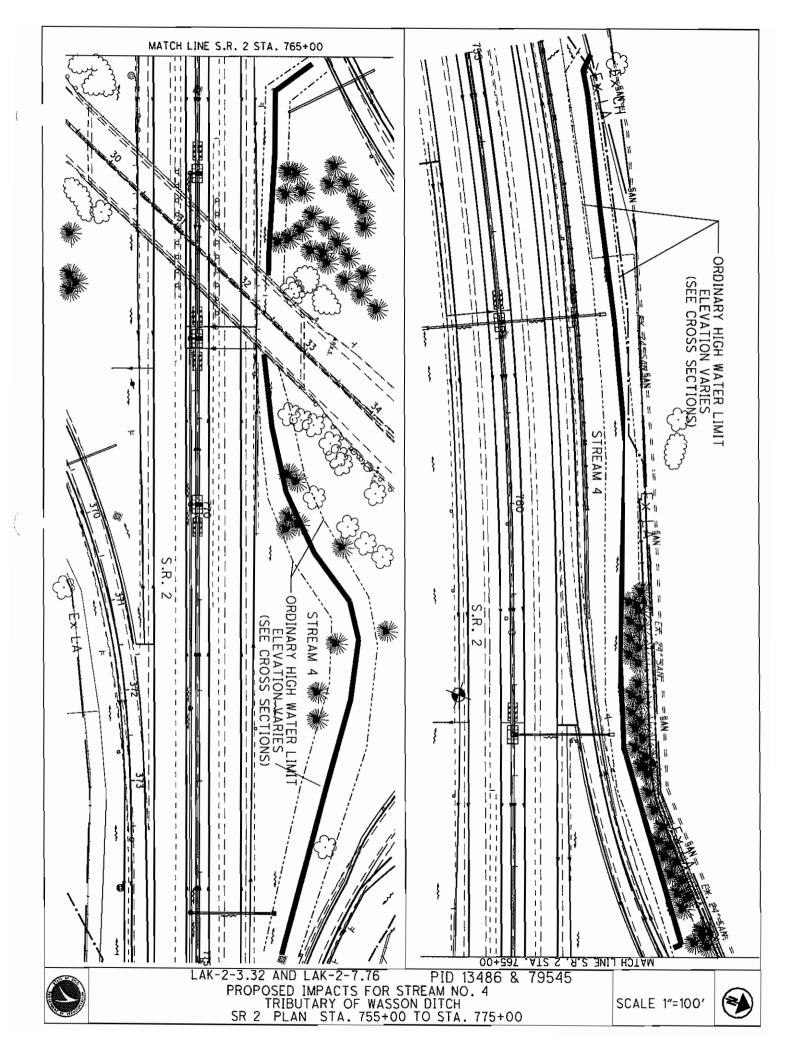


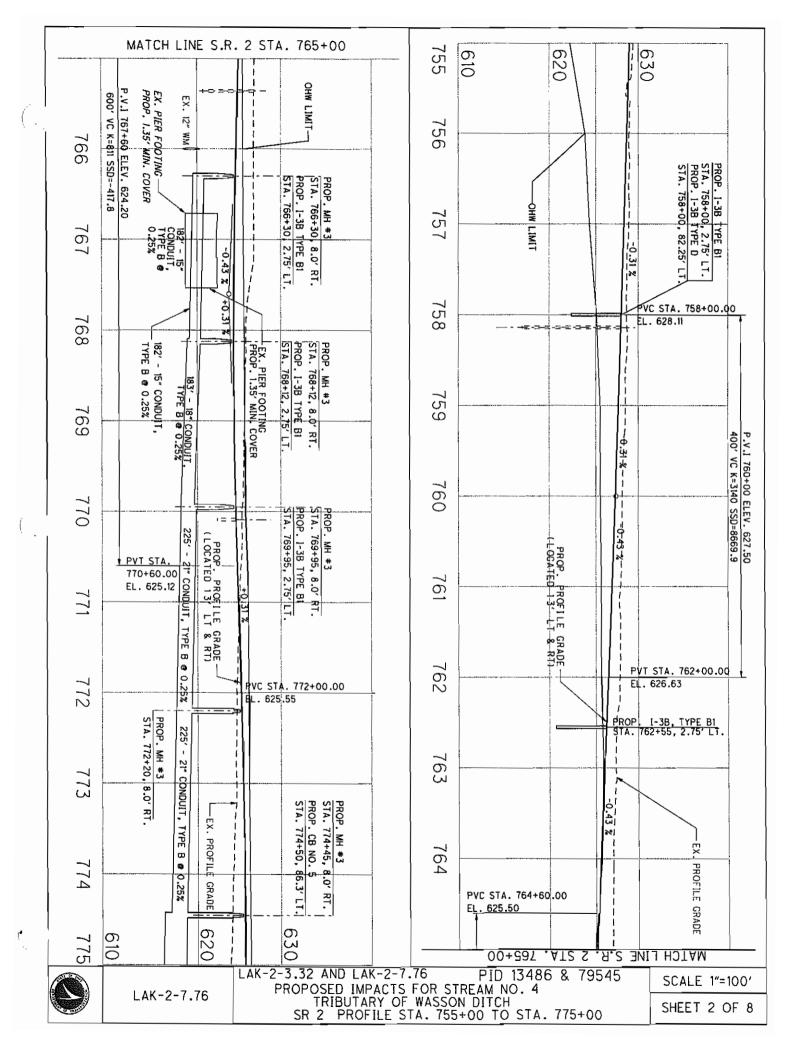


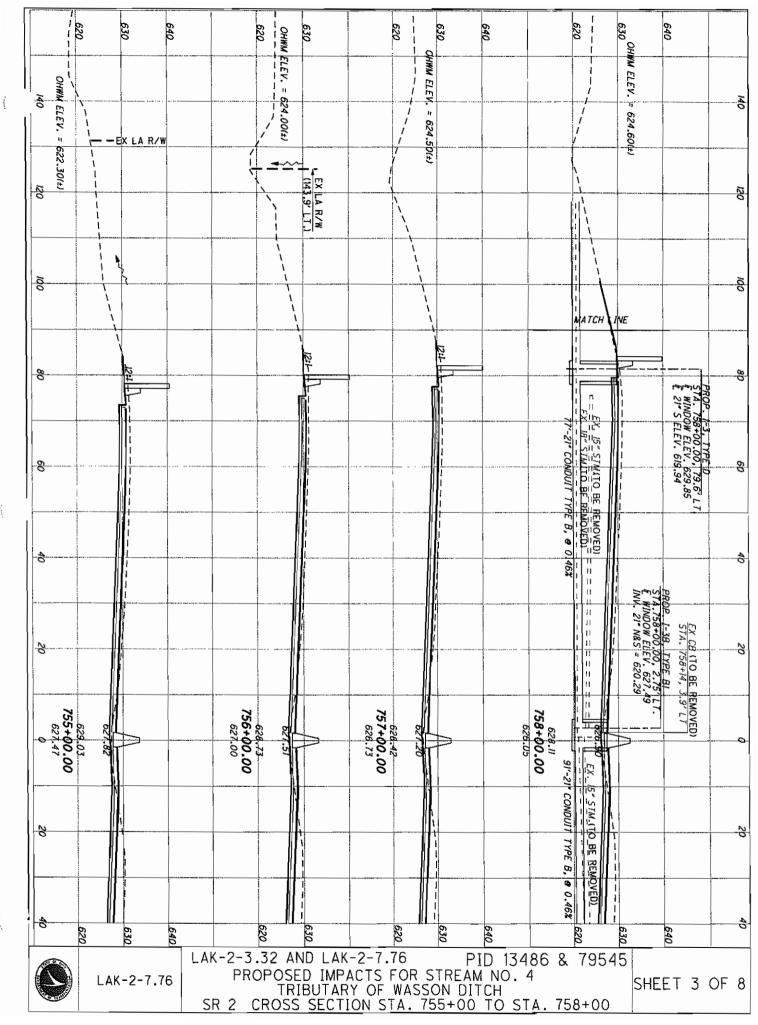




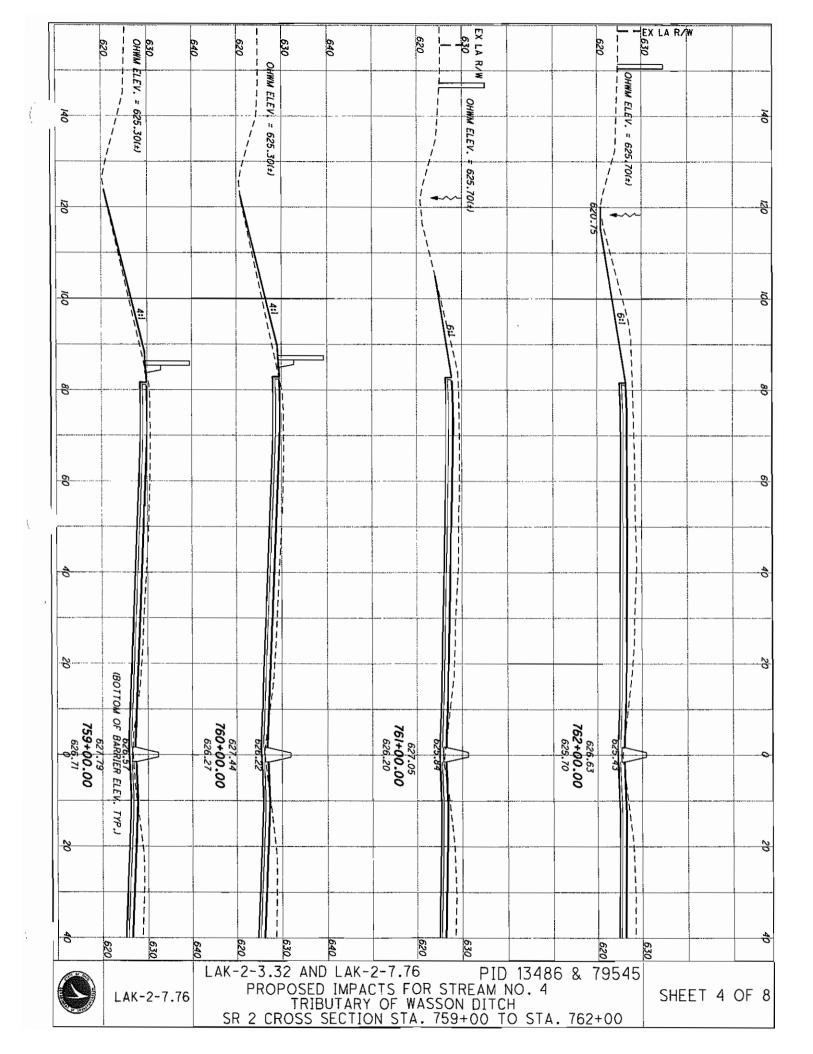


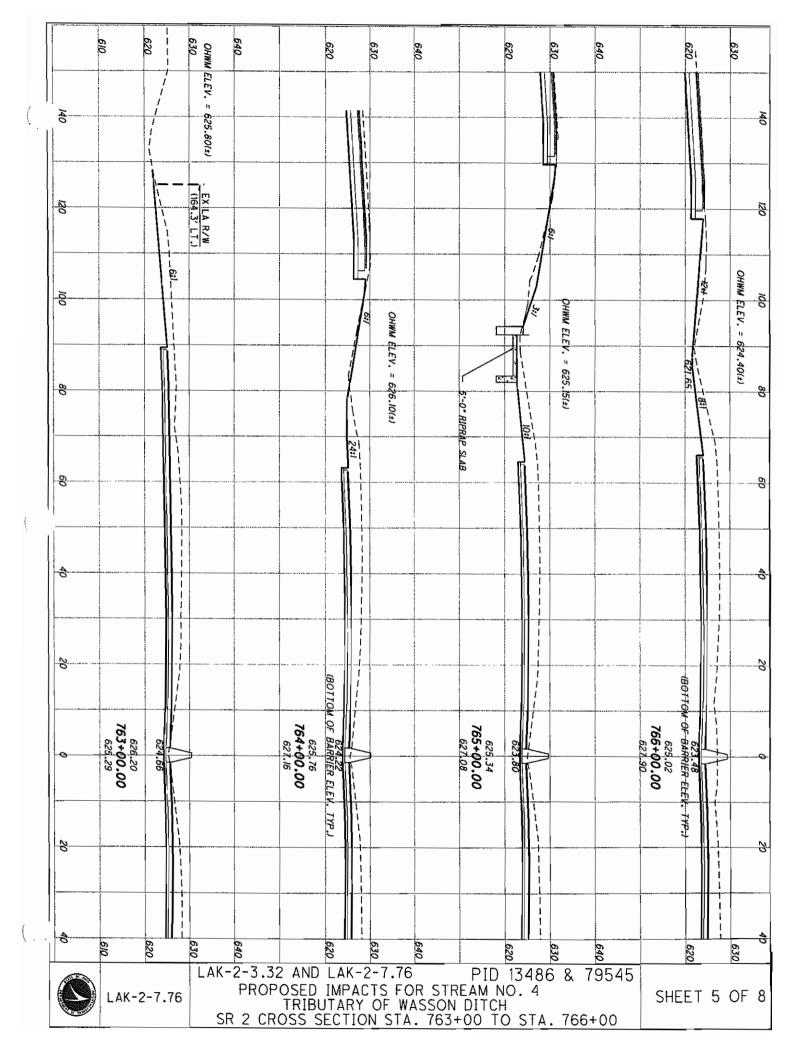


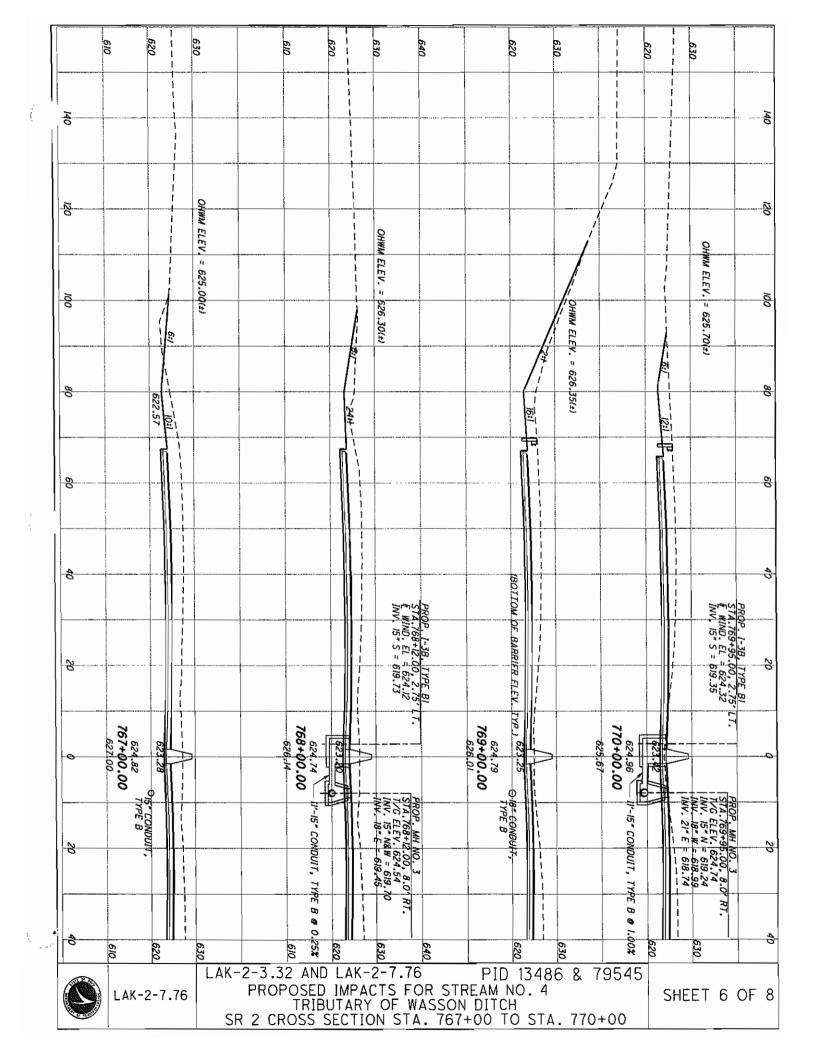


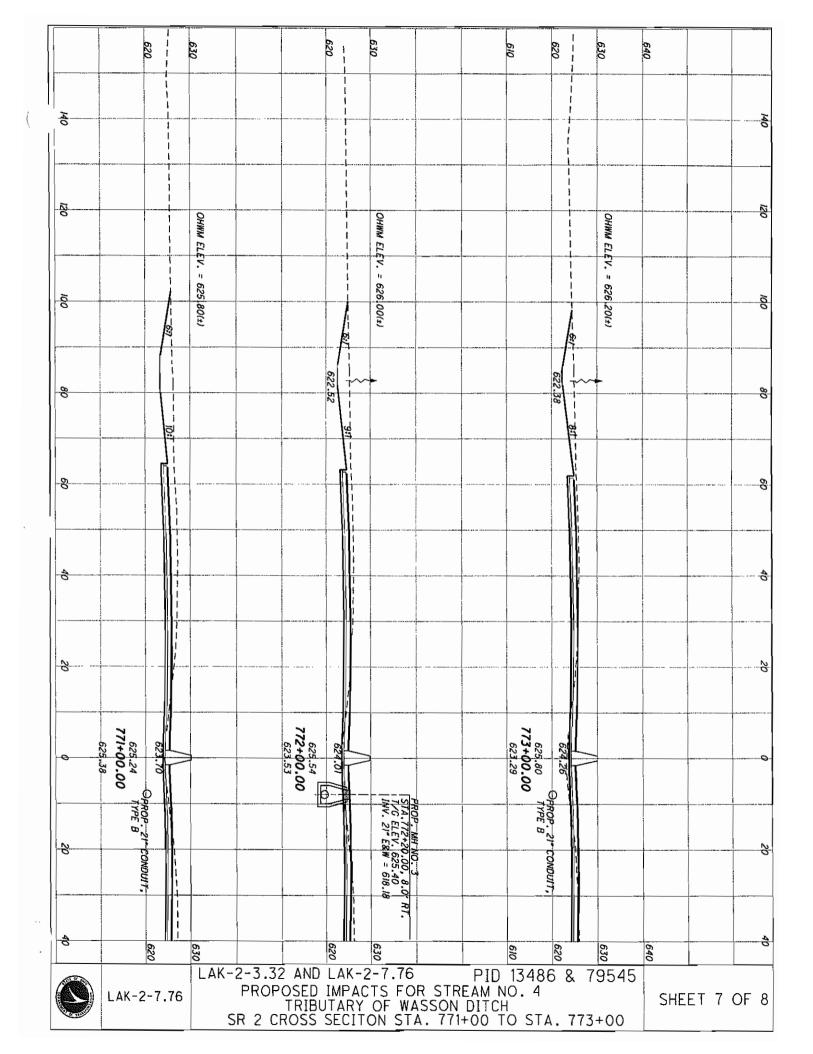


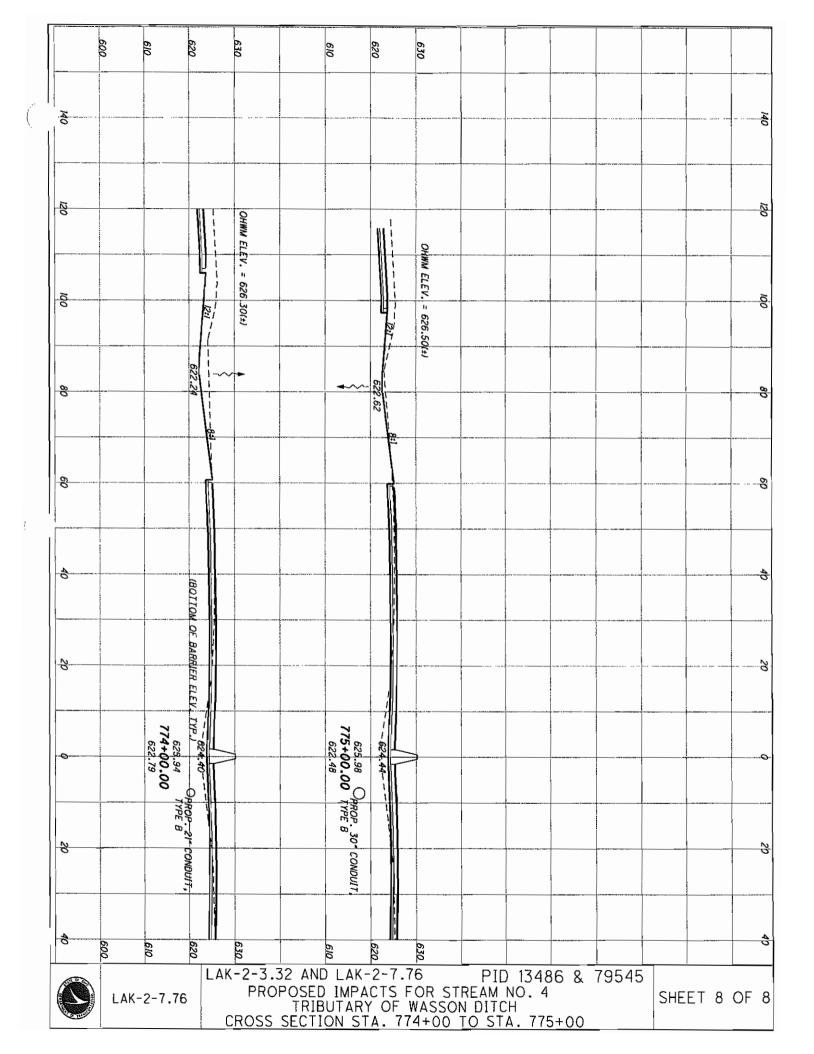
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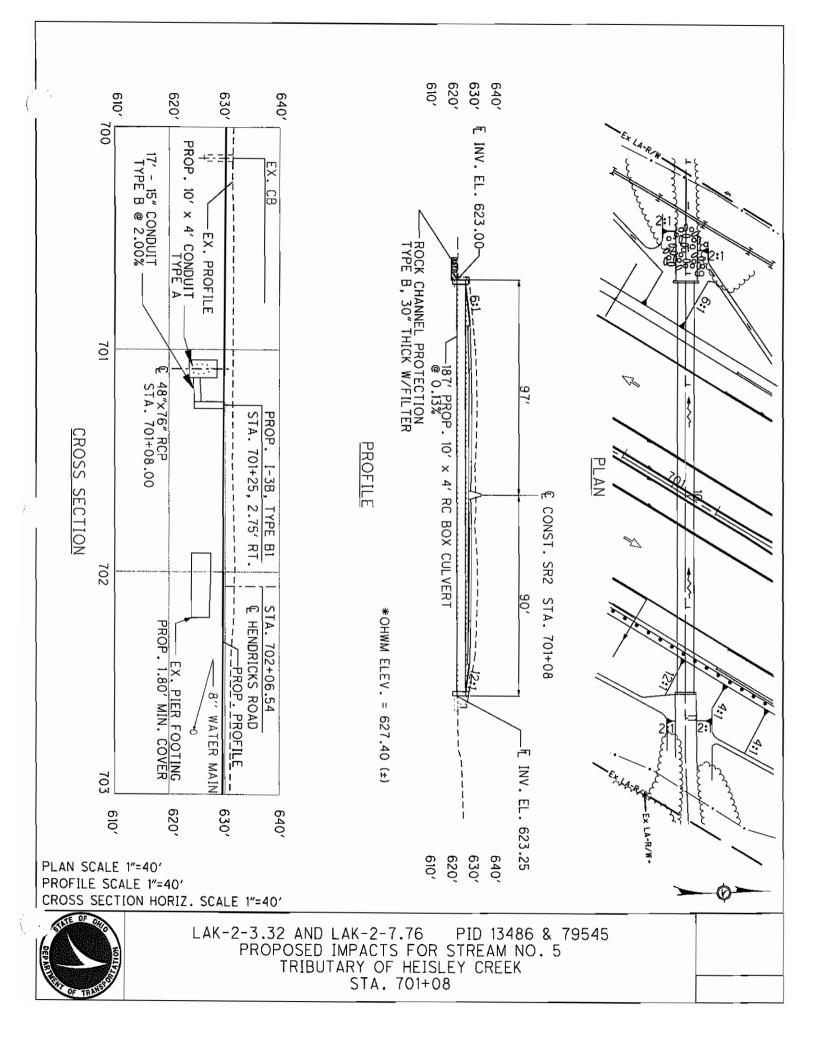


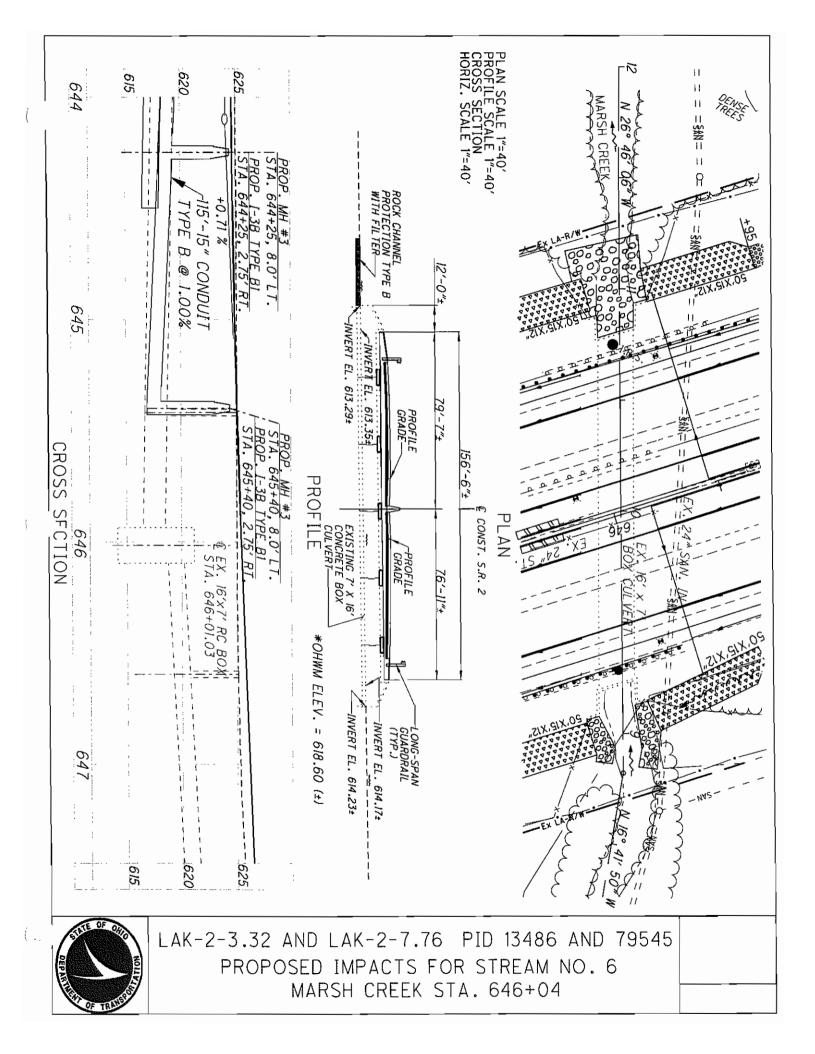


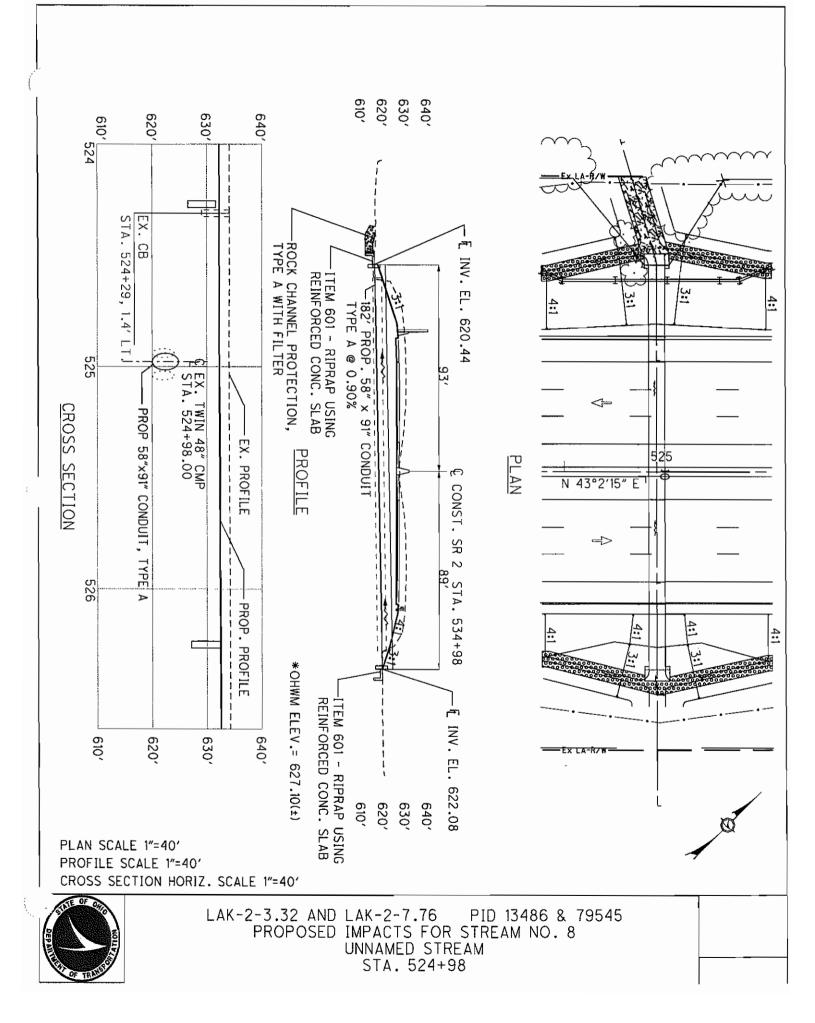


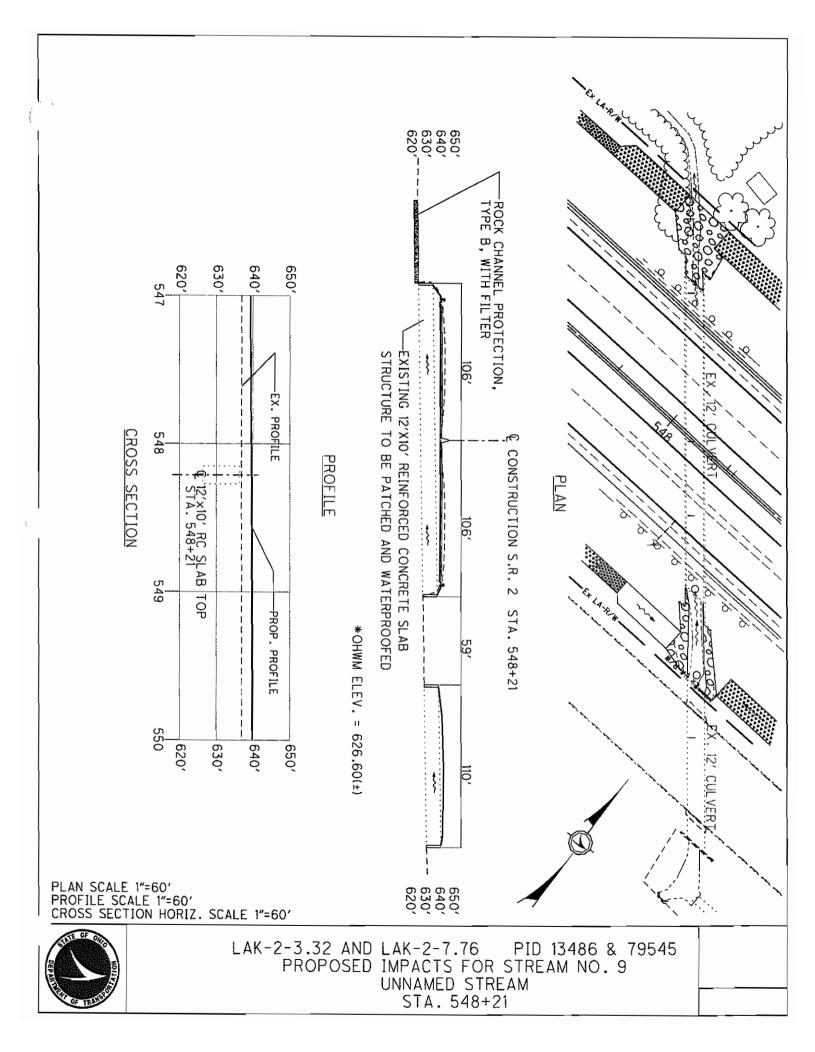


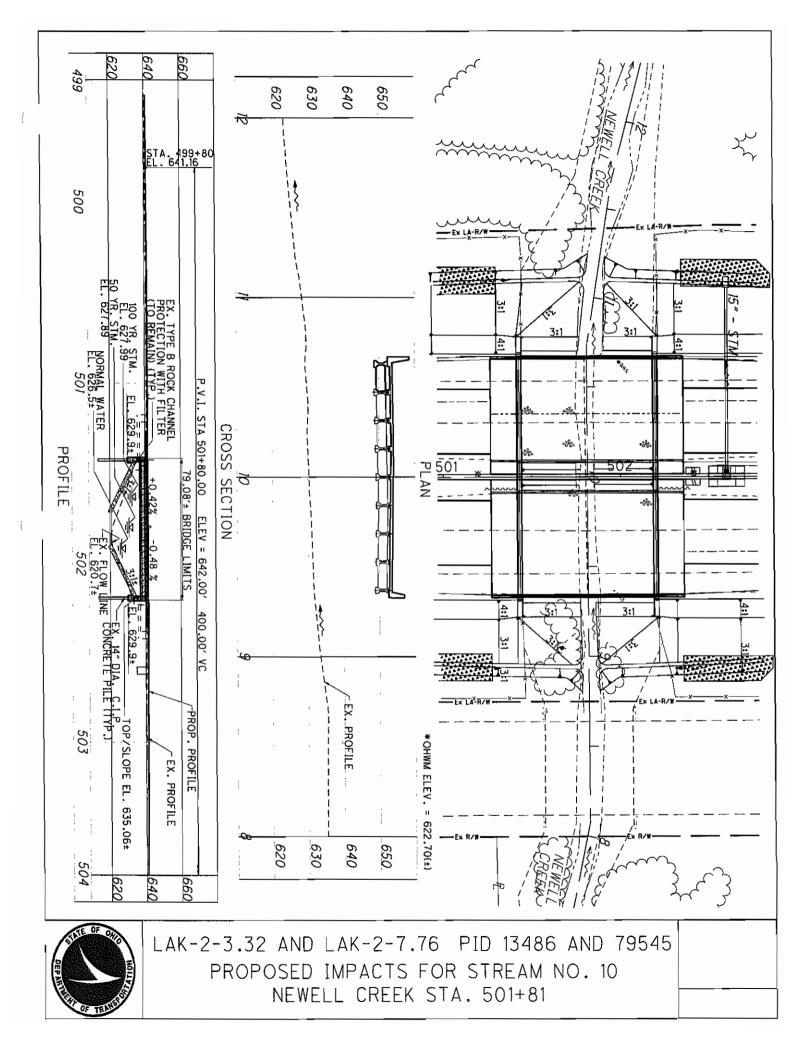


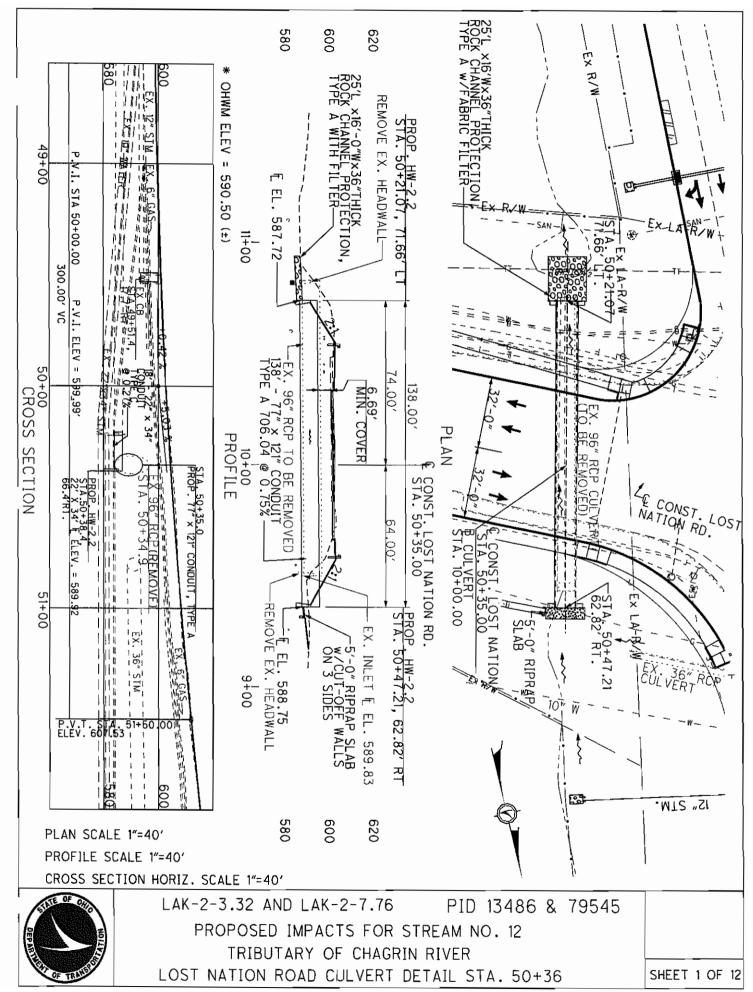


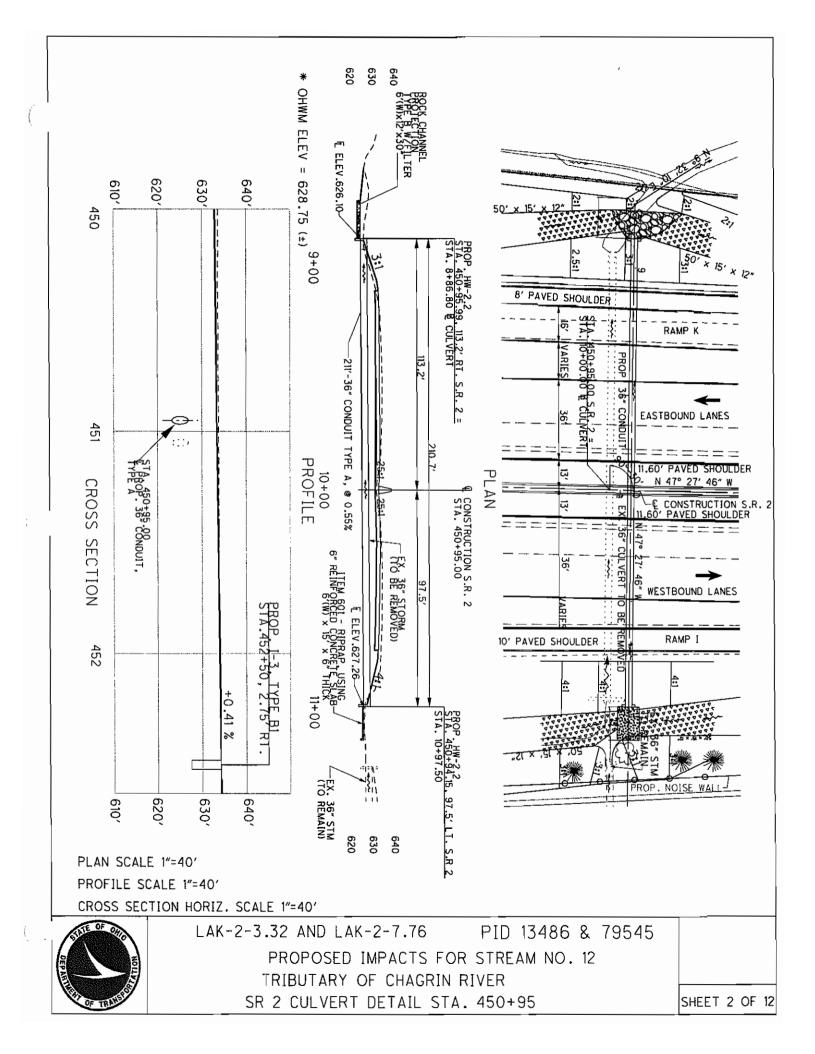


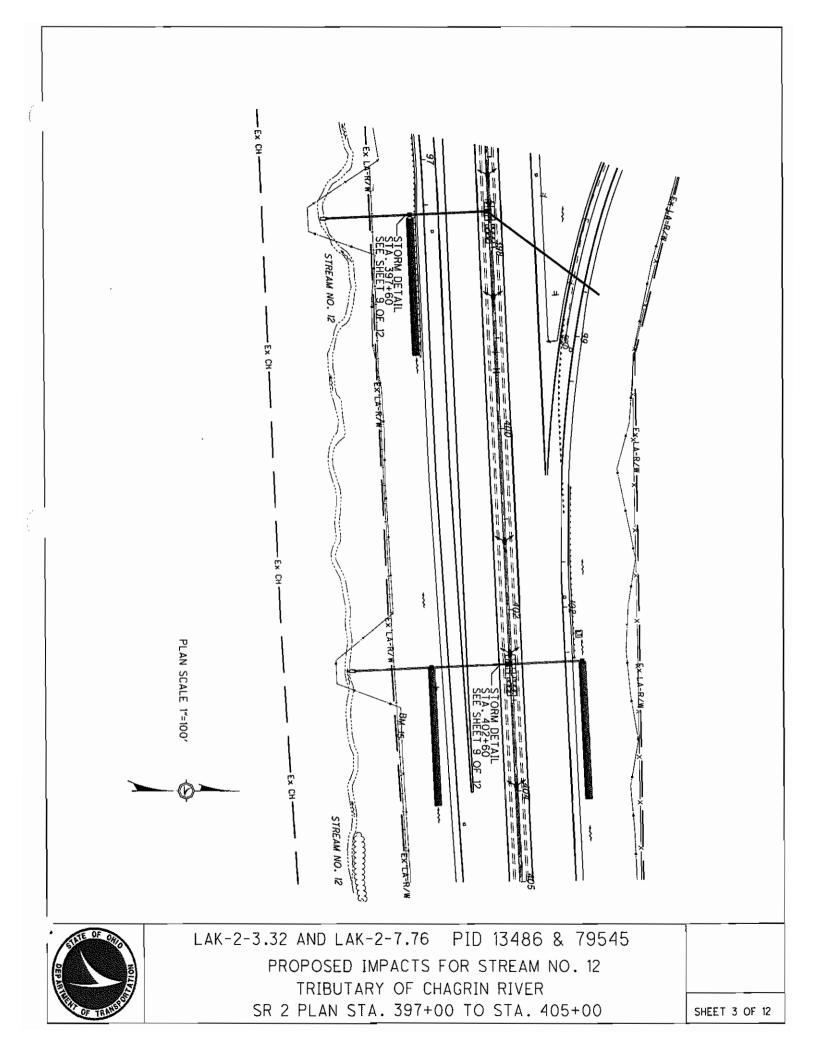


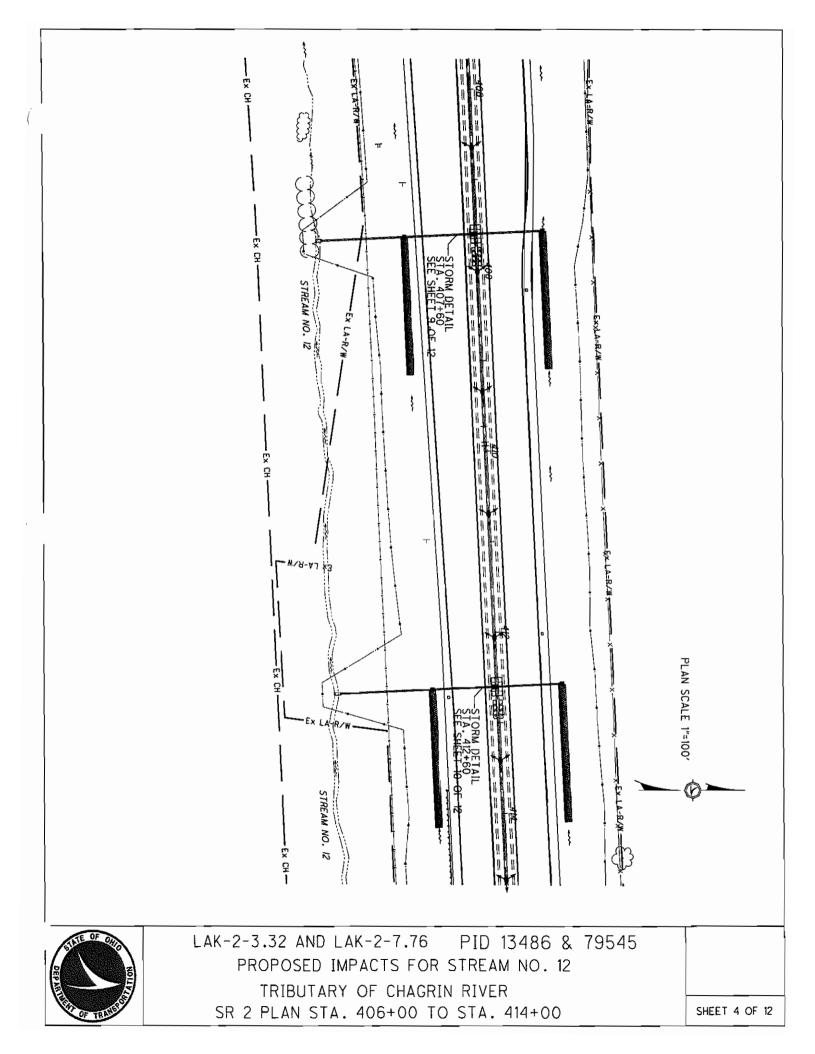


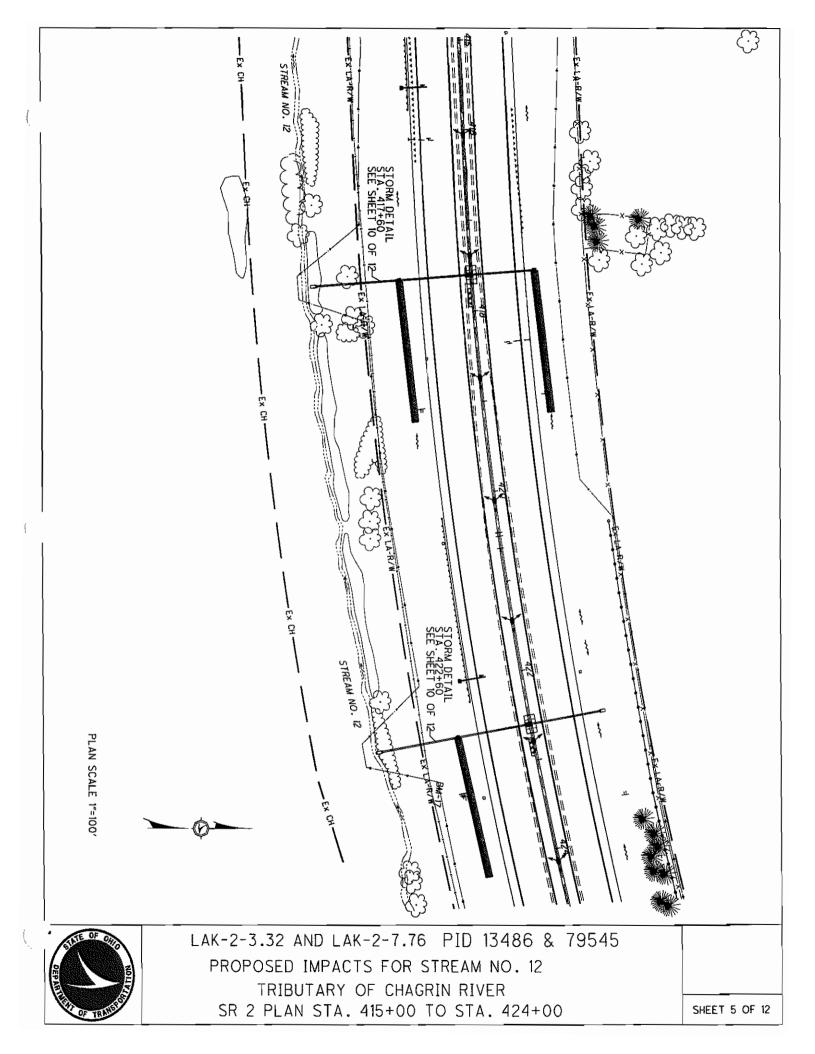


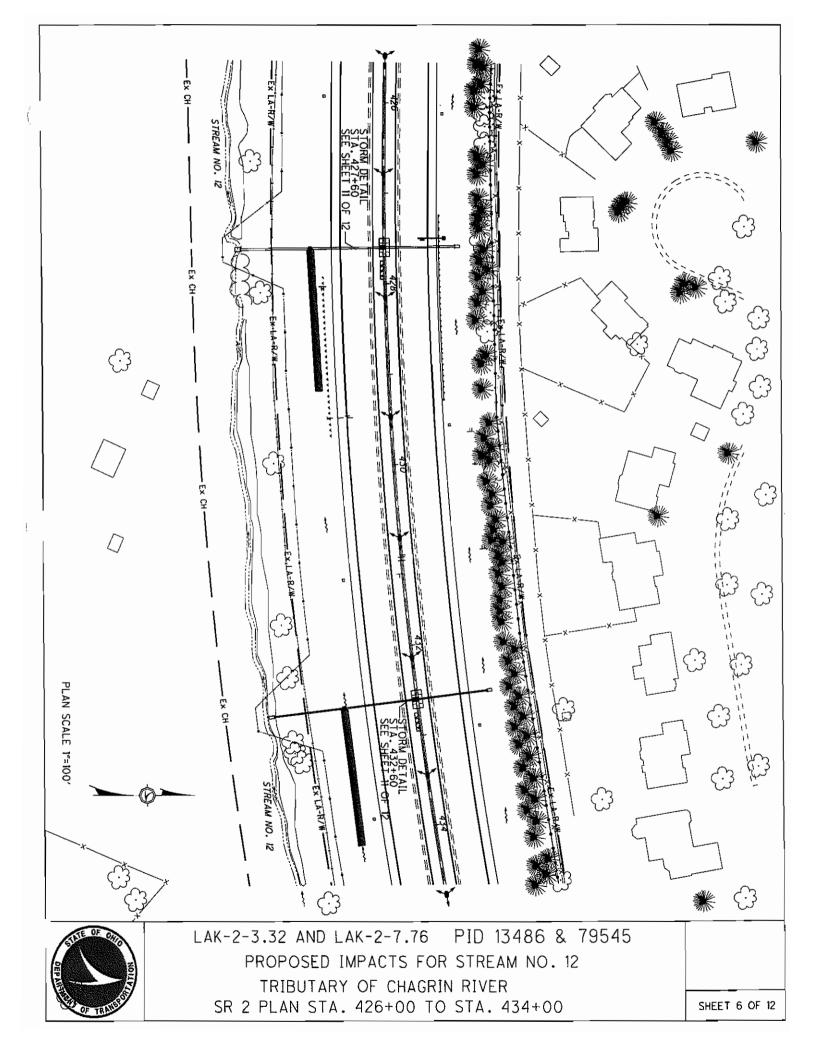


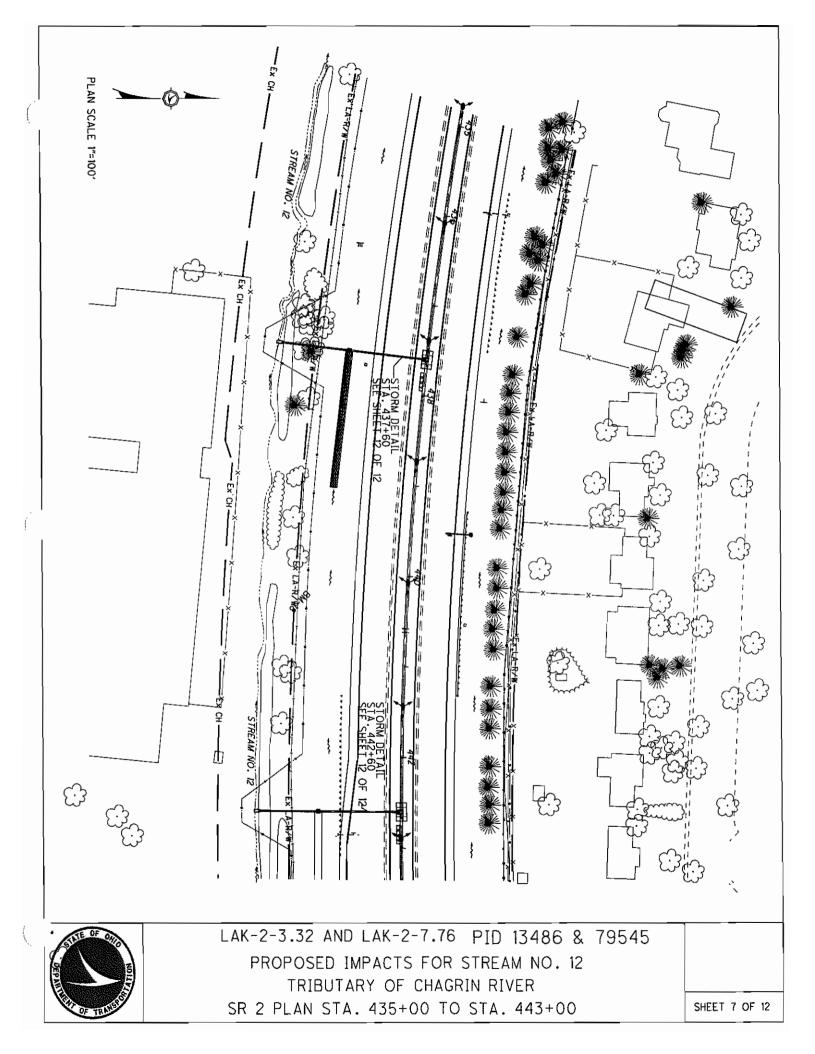


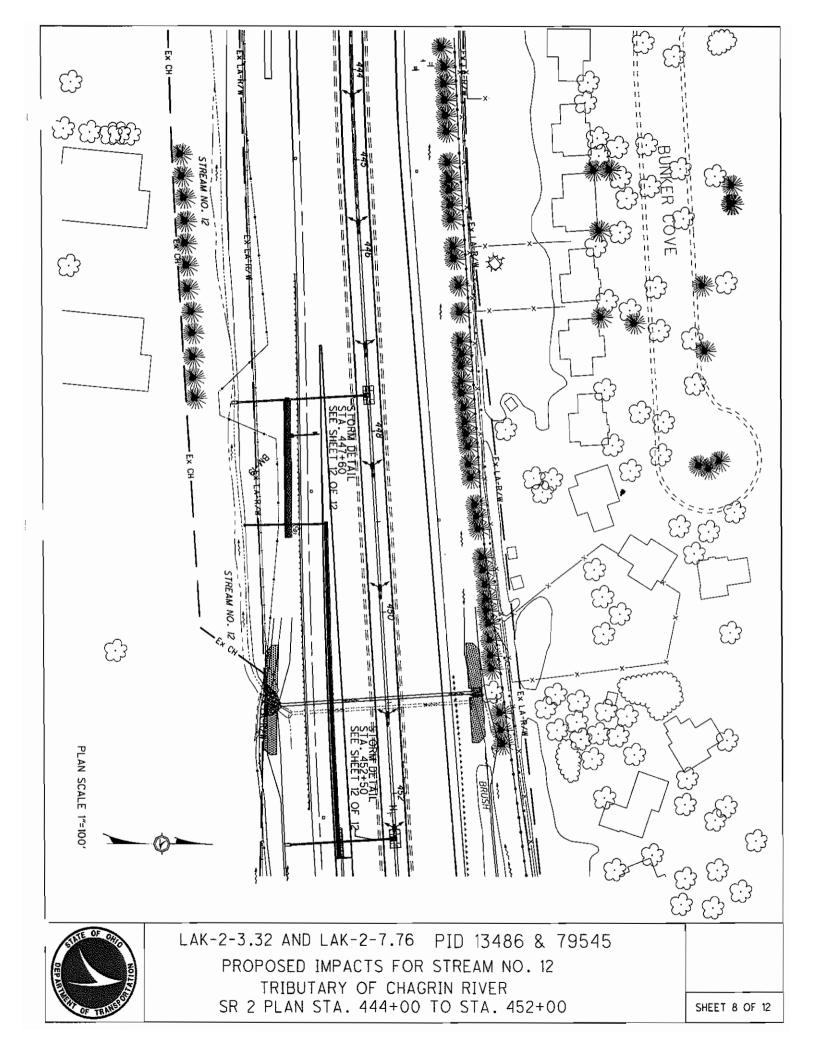


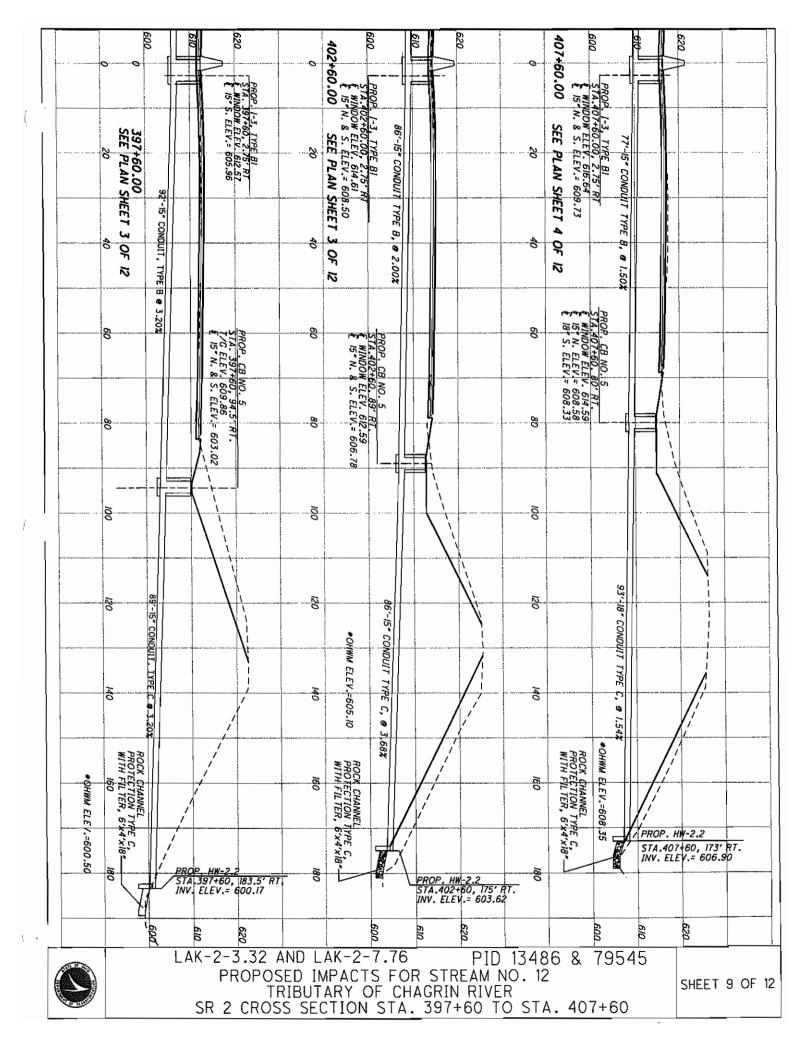


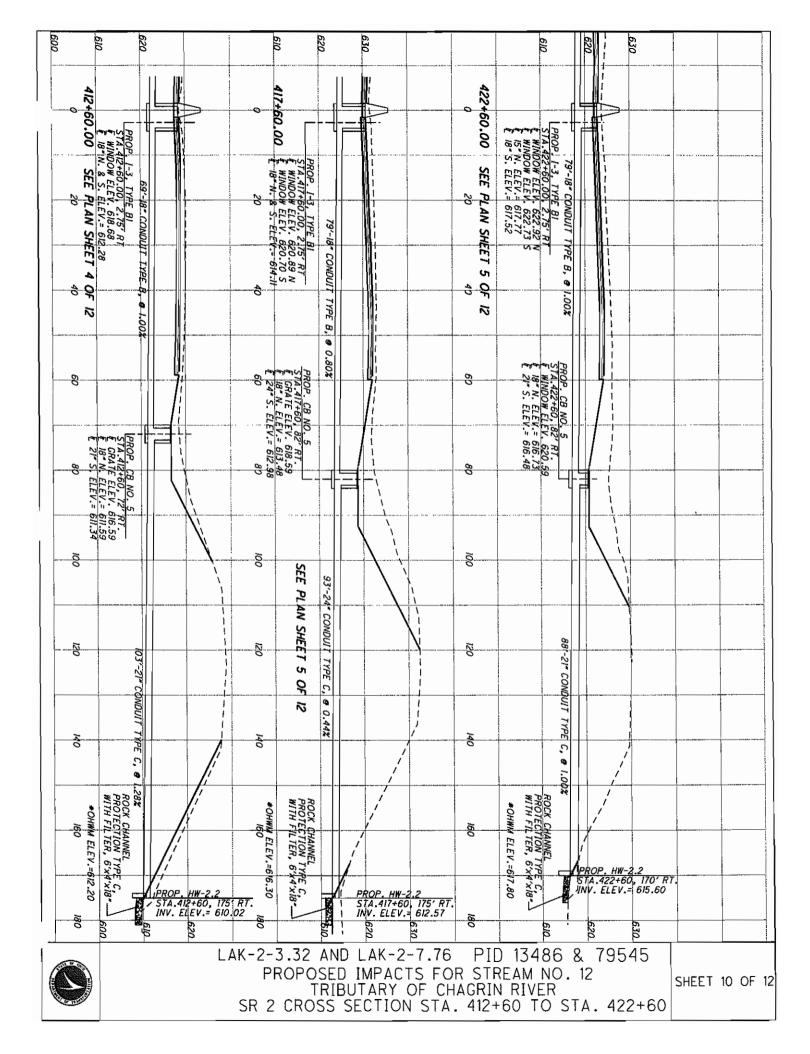


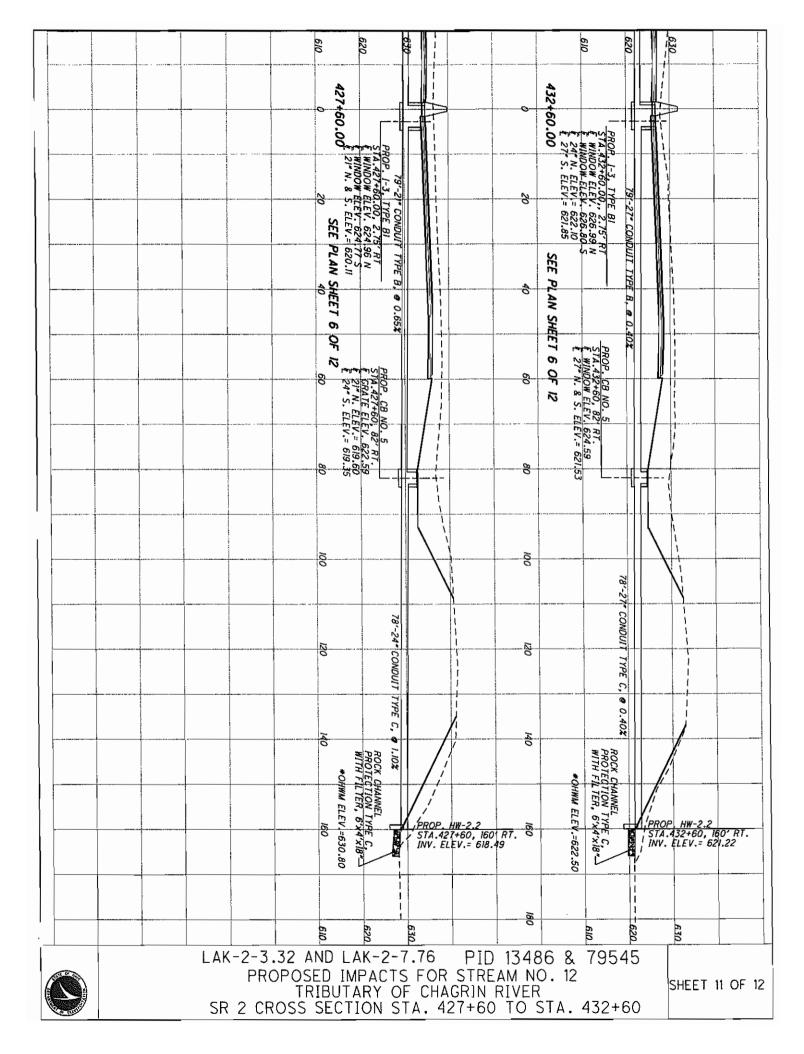


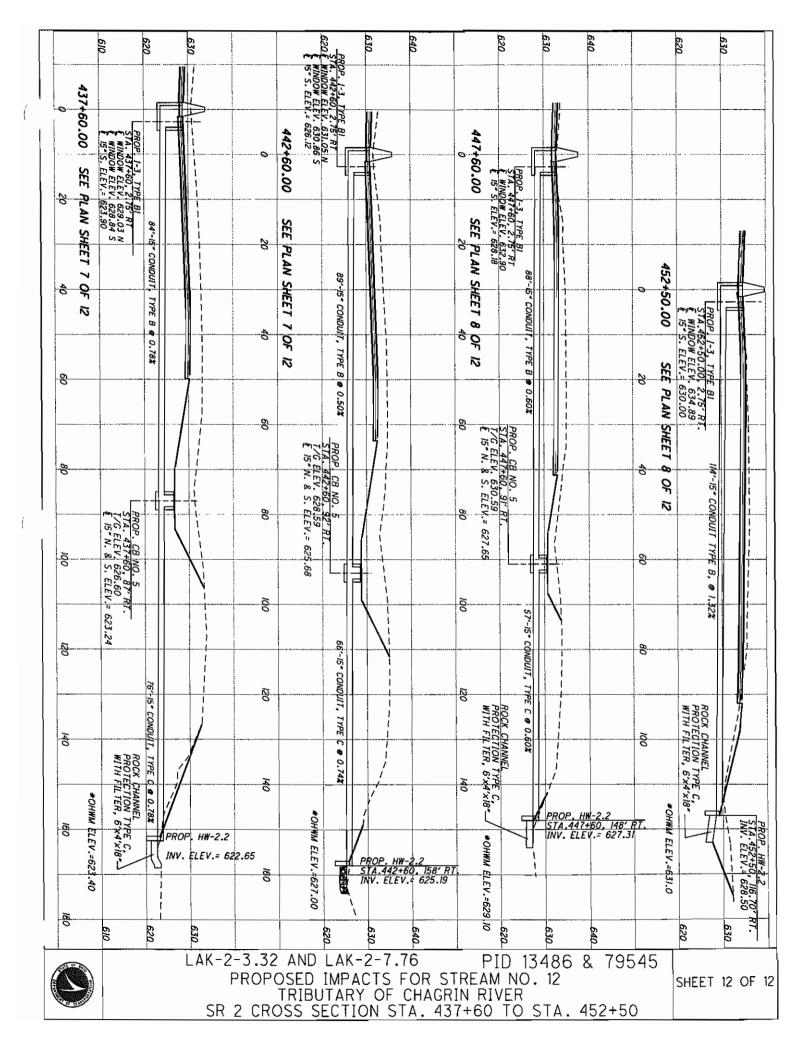


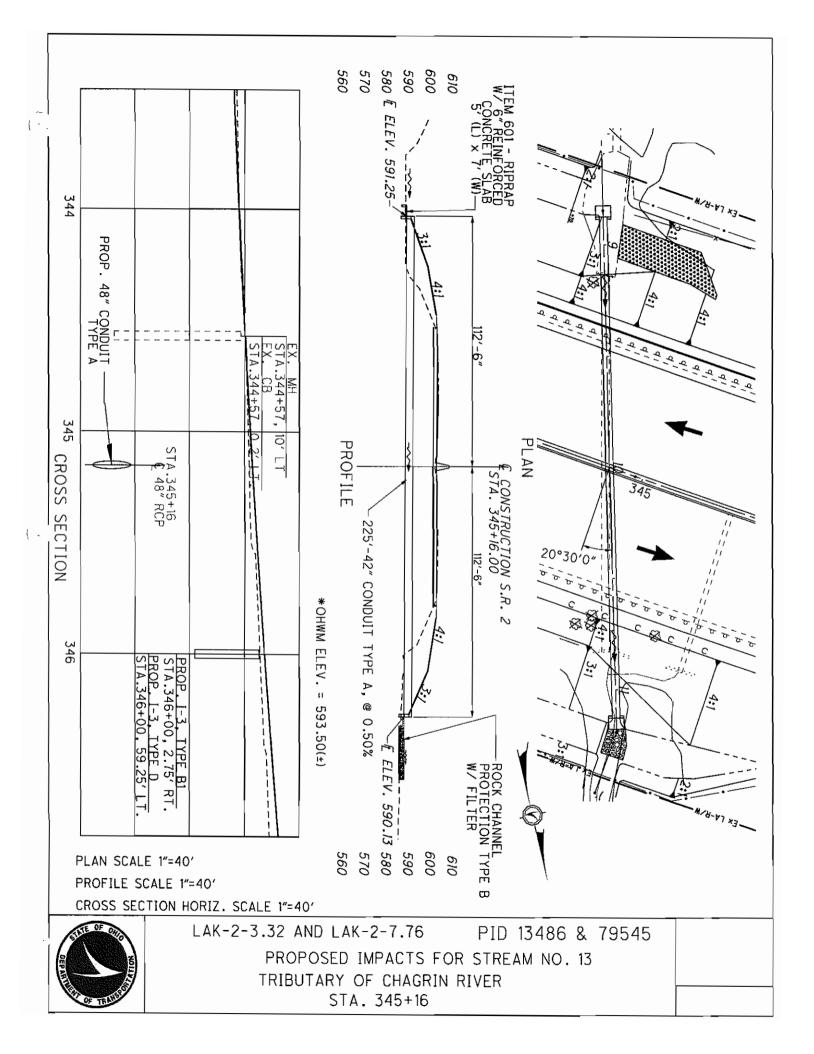


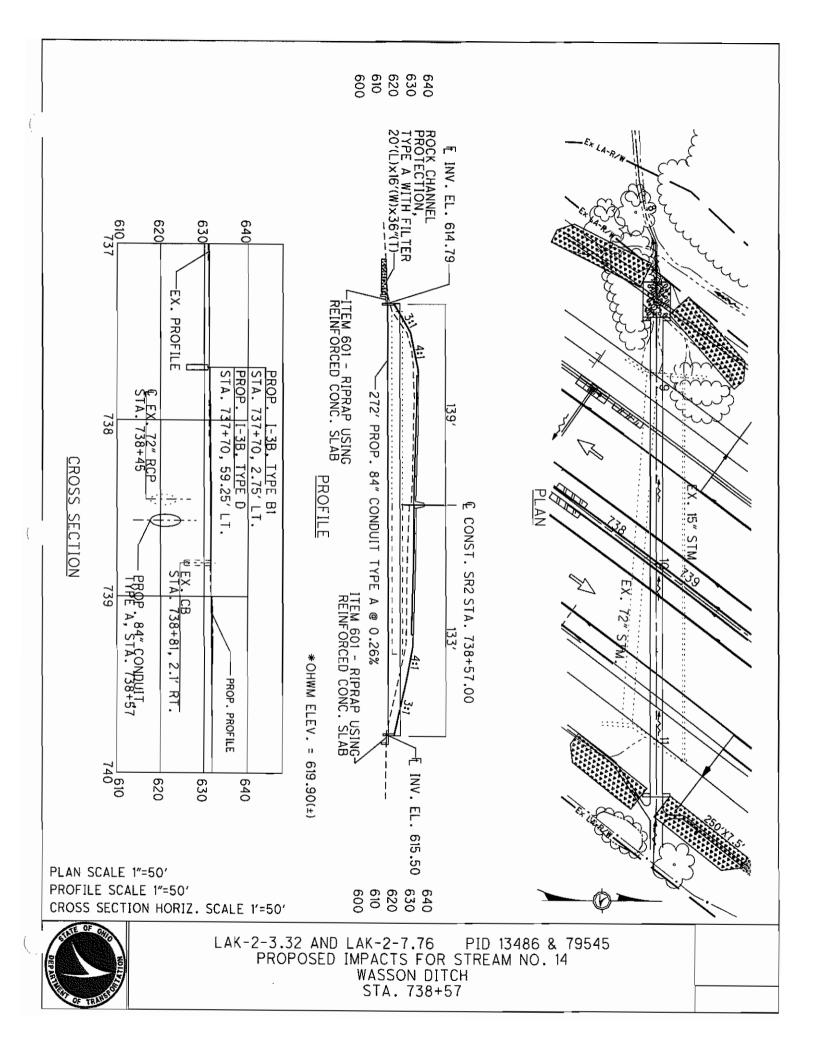


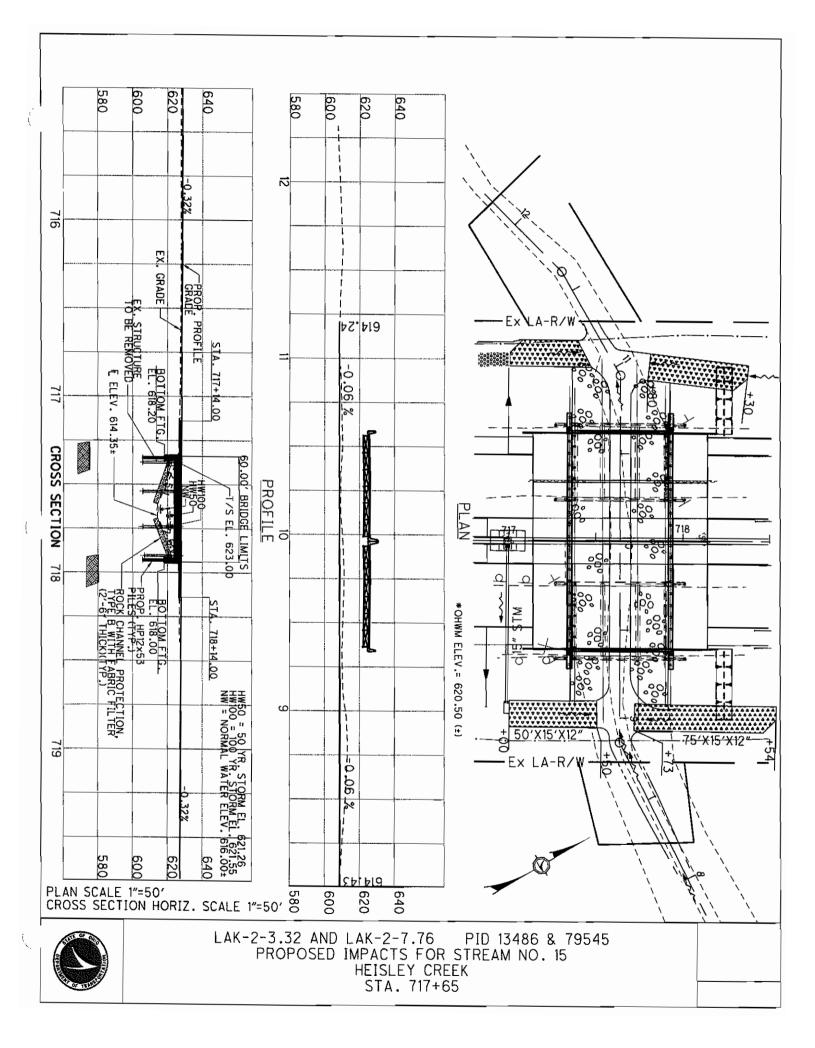


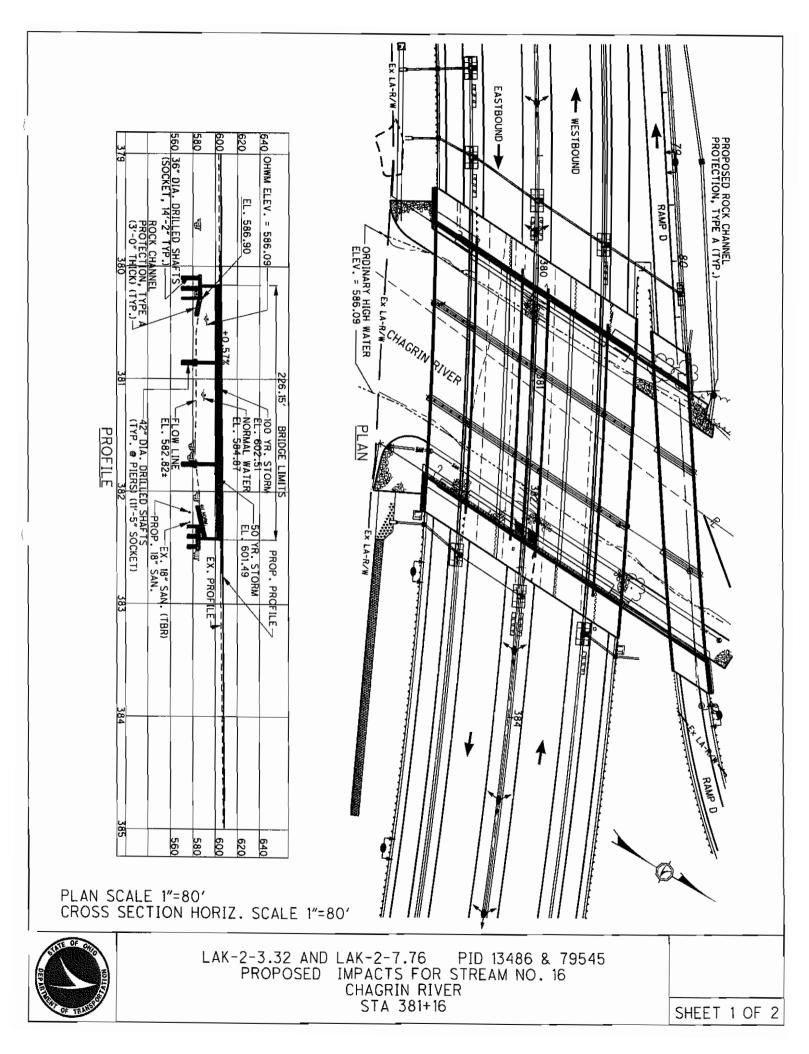


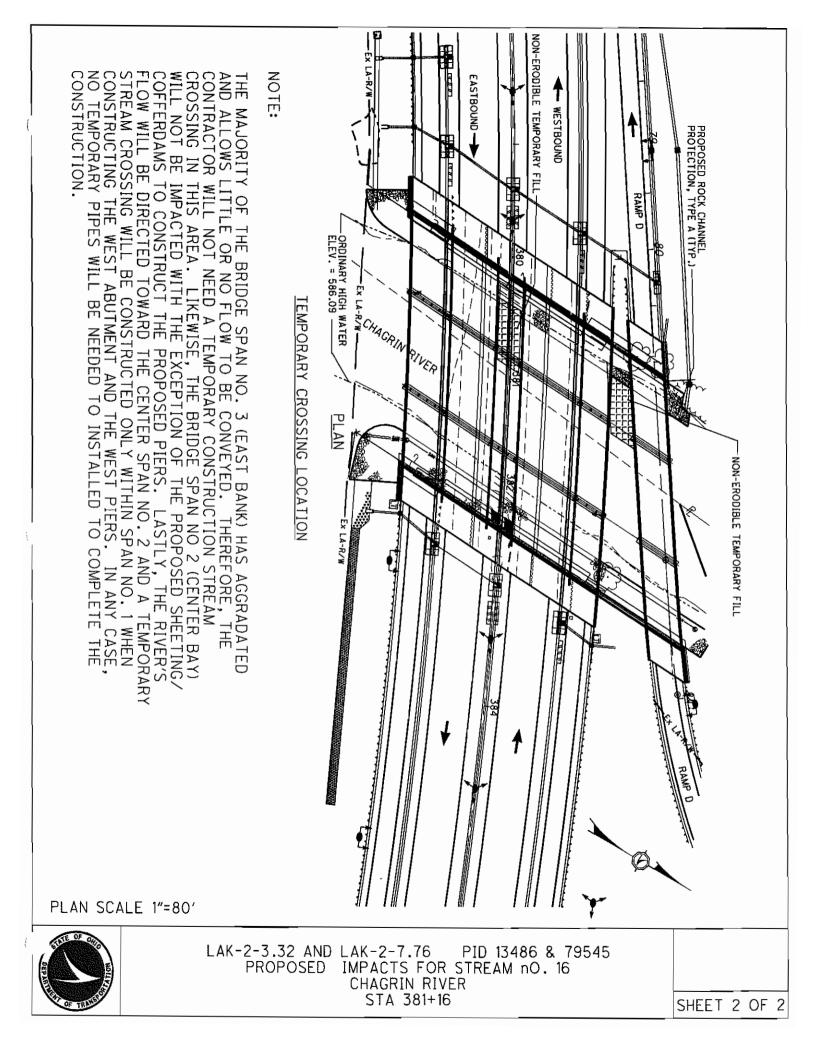


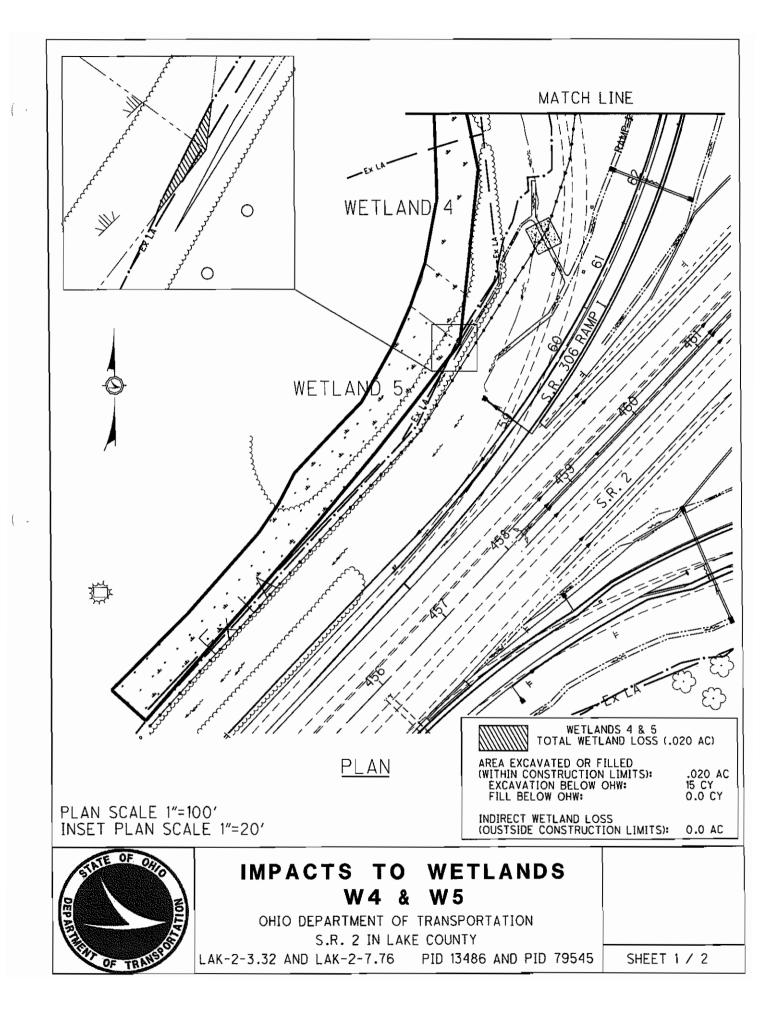


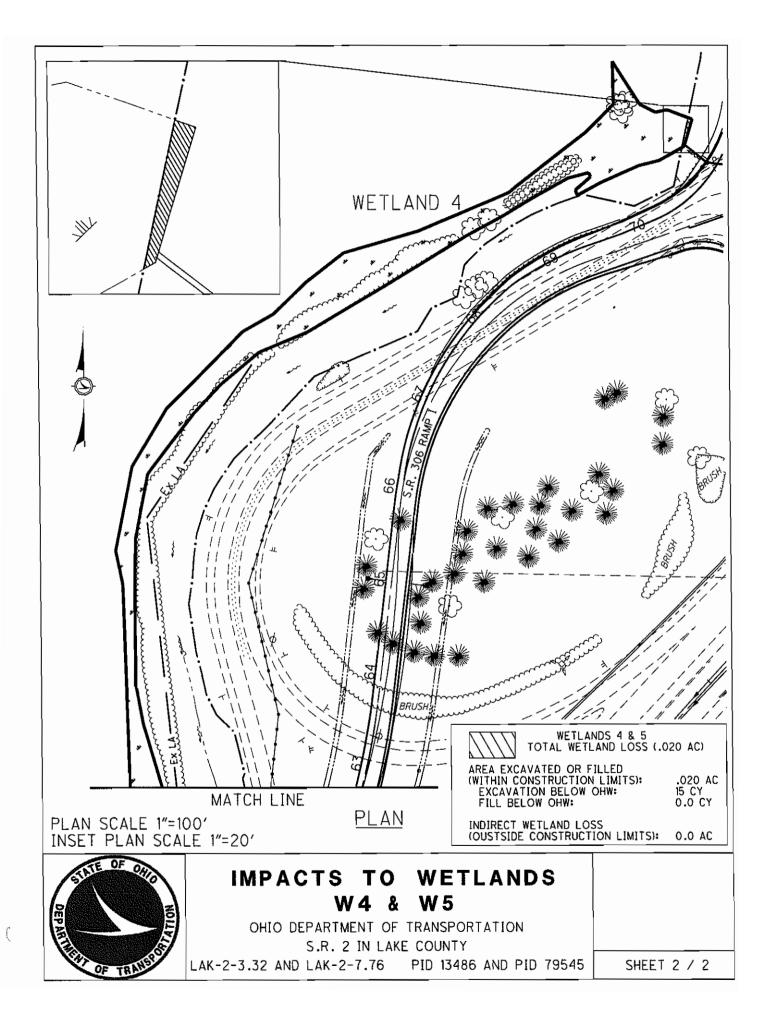


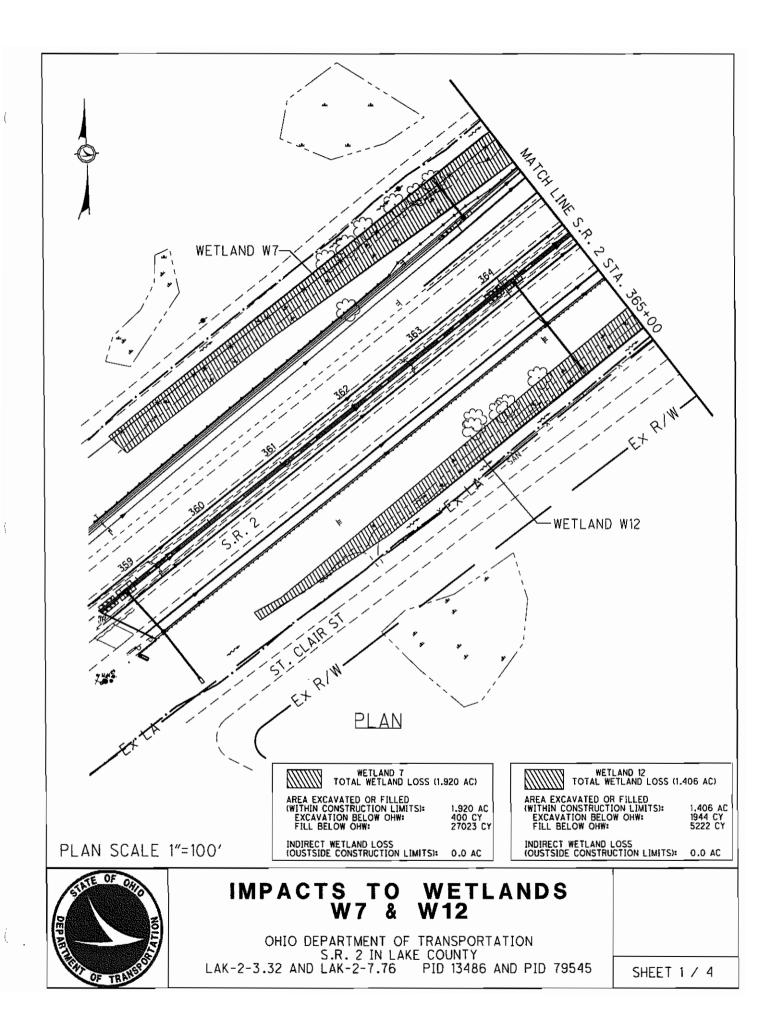


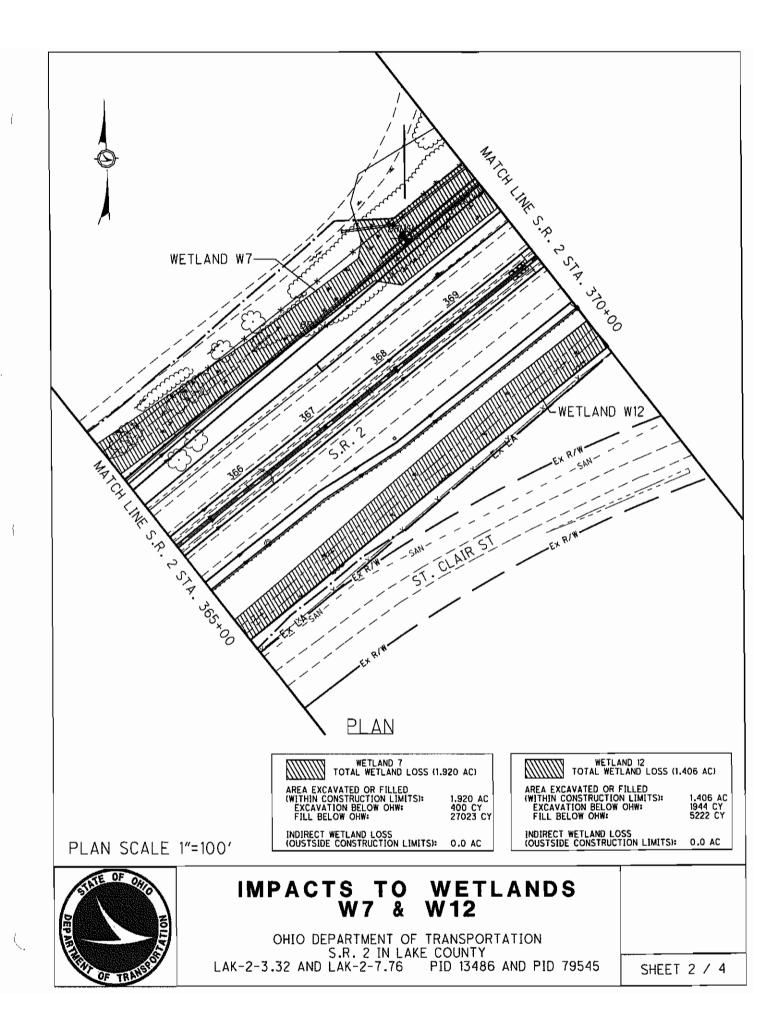


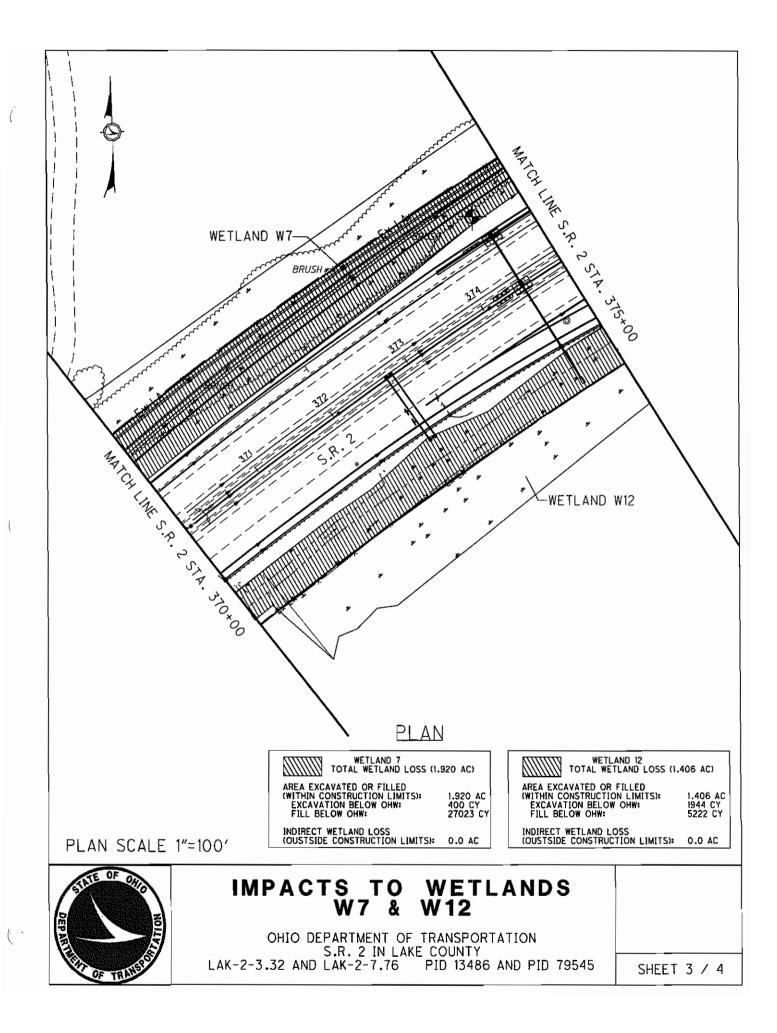


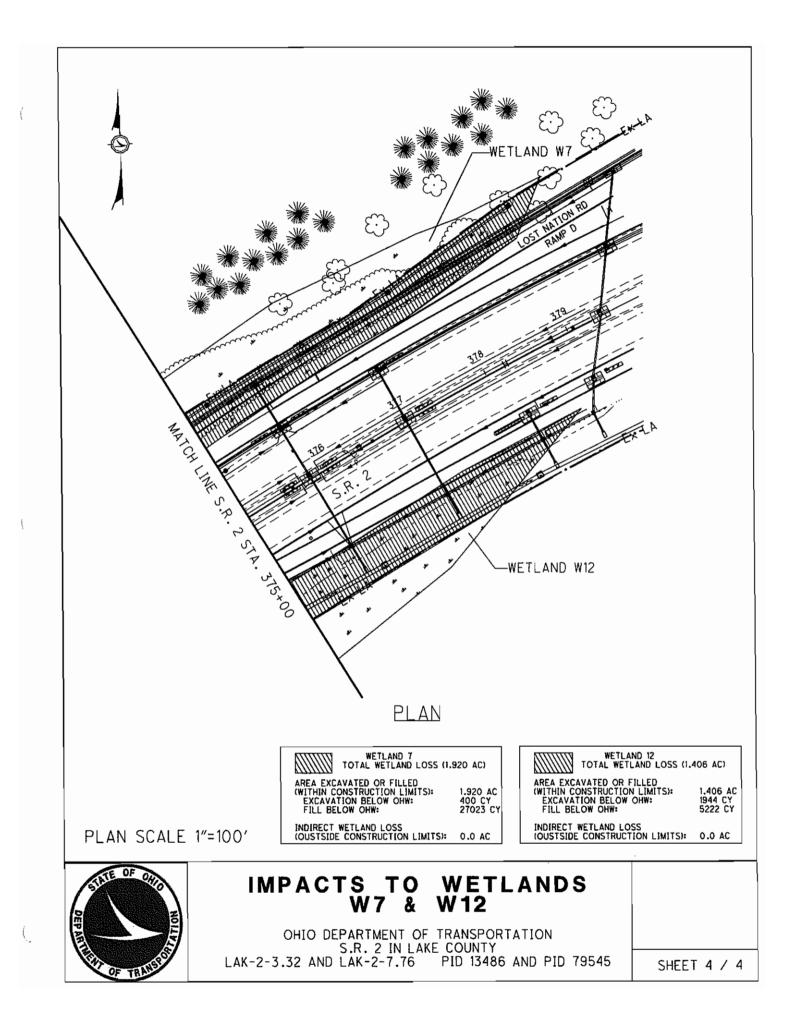


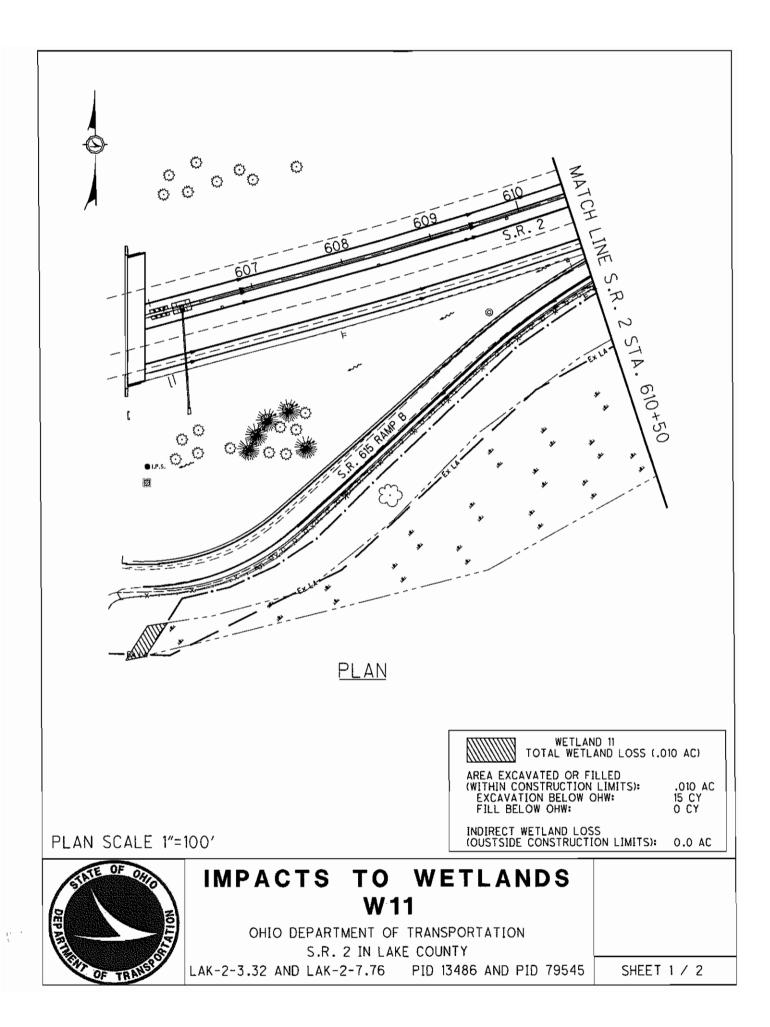


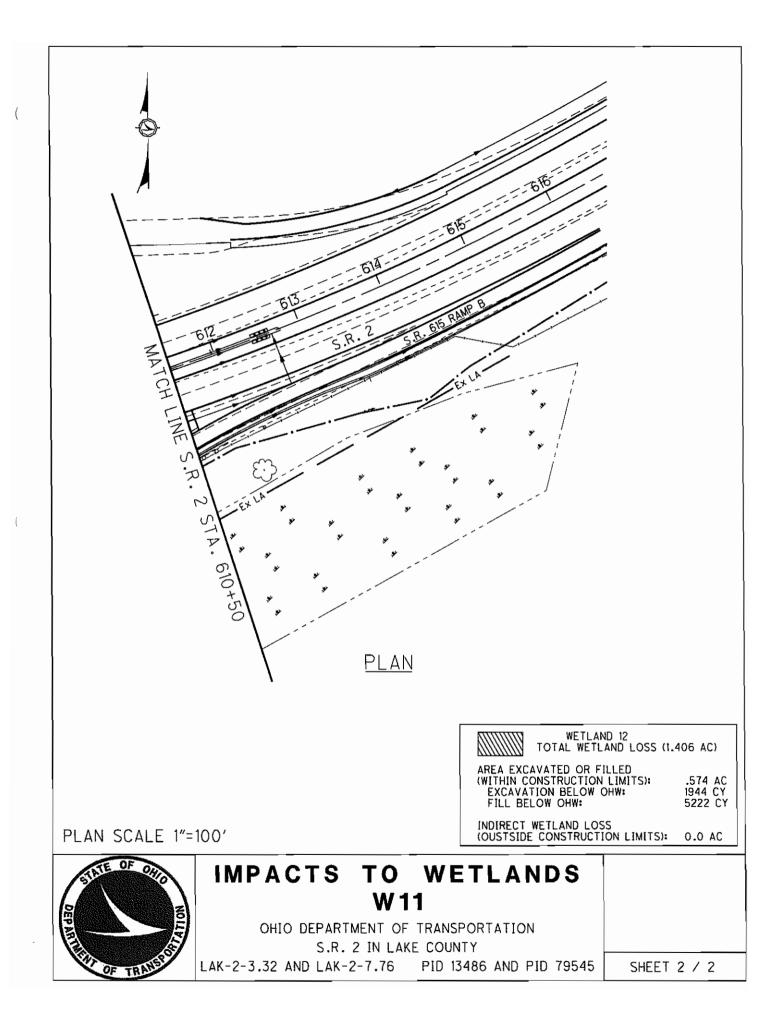


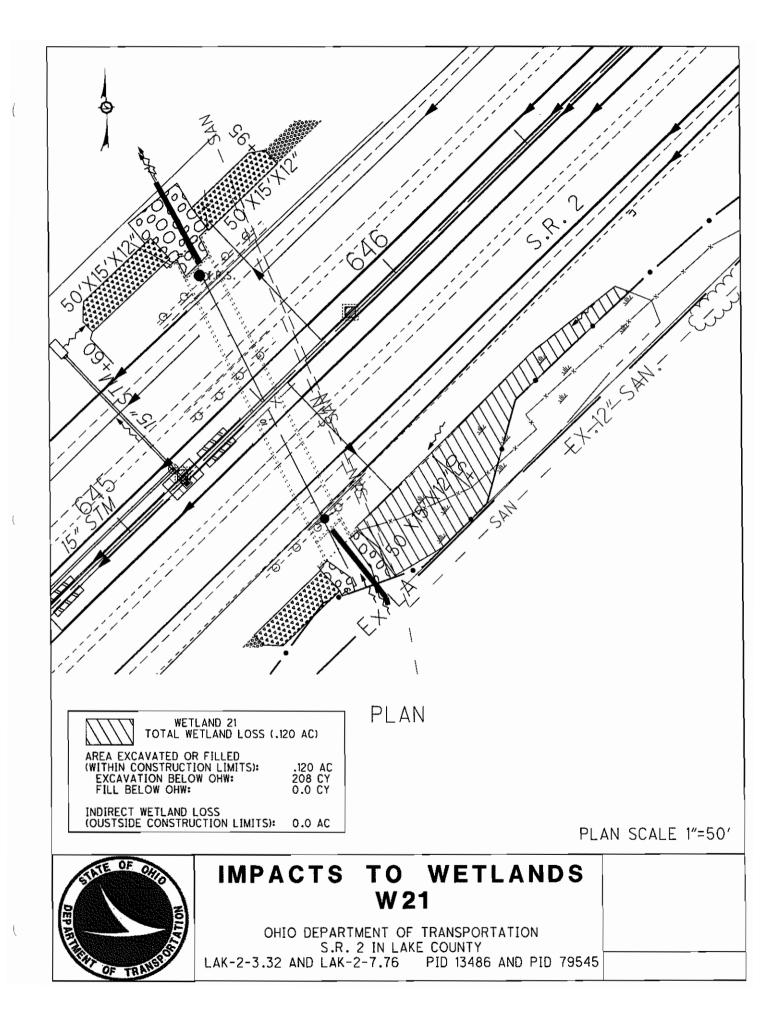


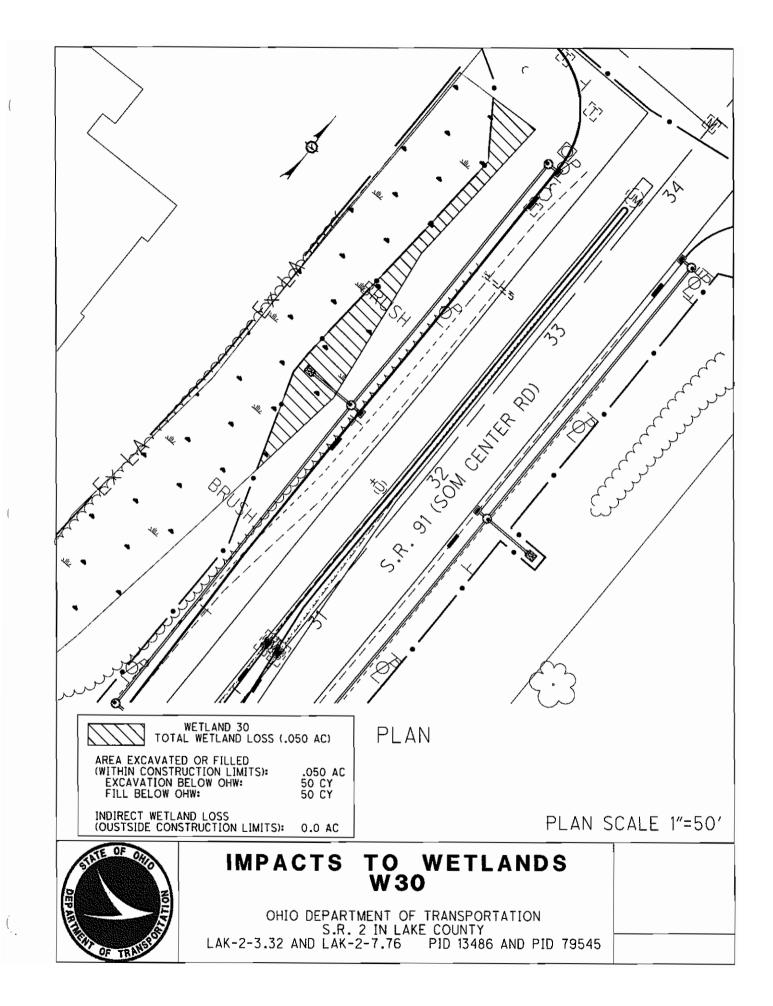












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#### Pre-Activity Notification Application for the General Isolated Wetland Permit Application (Level One Review) for the LAK-2-3.32 (PID 13486) Project in Eastlake, Willoughby, and Mentor, Lake County, Ohio

By

**Richard M. Paul, Ecologist/Environmental Specialist** 

Submitted By: Andrew Campbell Project Manager ASC Group, Inc. 4620 Indianola Avenue Columbus, Ohio 43214 614.268.2514

Submitted to: Scott Graham, P.E. ARCADIS U.S., Inc. 1100 Superior Avenue Suite 1250 Cleveland, Ohio 44114 216.781 6177

Lead Agency: Ohio Department of Transportation

March 3, 2008

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General Isolated Wetland Permit Application (Level One Review)

Appendix A - General Maps And Design Drawings

Figure 1 – Portion of the ODOT Lake County highway map showing the project area.

Figure 2 – Portions of the 1963 (photo revised 1992) Eastlake and the 1963 (photo revised 1992) Mentor quadrangles (USGS 7.5' topographic map illustrating the project area and isolated wetland locations (2 Sheets). Figure 3 – Plan view of wetlands.

Appendix B - ORAM V.5.0

Appendix C - Photographs

Appendix D – U.S.A.C.E Isolated Waters Determination

General Isolated Wetland Permit Application (Level One Review)

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## GENERAL ISOLATED WETLAND PERMIT **APPLICATION** (Level One Review)

State of Ohio Environmental Protection Agency

For impacts of ½ acre or less to Category 1 & 2 isolated wetlands

#### Please Print or Type (attach additional sheets if necessary)

	Applicant	Agent:			
Company Name:	Ohio Department of Transportation	ODOT, Office of Environmental Services			
Address:	1980 West Broad Street, 3rd Floor	1980 West Broad Street, 3rd Floor			
City, State, Zip:	Columbus, Ohio 43223	Columbus, Ohio 43223			
Contact Person:	James Beasley, Director, P.E., P.S.	6. Michael Pettegrew, Supervisor			
Phone Number(s):	(614) 466-7102	(614) 466-7102			
Fax Number:	(614) 728-7368	(614) 728-7368			
E-Mail Address:	mike.pettegrew@dot.state.oh.us	mike.pettegrew@dot.state.oh.us			

#### PROJECT INFORMATION

Project Name: Lak-2-3.32 Watershed (include USGS 8-Digit HUC): Chagrin R. 04110003 Street: State Route 2 \_City/Township: Eastlake, Willoughby, and Mentor County: Lake \_Latitude: <u>41.41.11N; 41.41.04N</u> Longitude: <u>81.20.31W; 81.20.51</u>

Project Description:

The proposed improvement will consist of the construction of a fourth lane between SR 91 and Vine Street and a third lane between Heisley Road and SR 44. Full shoulders and a concrete median barrier will be provided. In addition, the proposed improvements will include the modification of seven freeway interchanges.

#### Project Type (Check all that apply):

	Commercial	Landfill
	Erosion Control	Mining
	Flood Control	Mitigation Bank
	Industrial	Navigation/Boating
D	Lake/Pond Creation	Public

#### Lake/Pond Creation

#### I have included the following in this submittal:

	Remediation
	Residential
X	Transportation
Ы	Litility

Utility

Other:

X	Maps showing project footprint/wetlands	翼	Wetland categorization
	including USGS map	×	Site photographs
	Wetland delineation		Mitigation proposal
×	Corps isolated waters determination		Check for applicable fees

Are there other aquatic resources on the project site (please check all that apply):

শ্ব Perennial Streams X Intermittent Streams Ephemeral Streams X X Non-isolated wetlands Lakes/Ponds

List other water-related permits pending, issued, or required for this project (Nationwide permits, Coastal Zone Management, Mining, NPDES, etc.): Department of Army, 404 Permit

Ohio EPA, 401 Water Quality Certification

Wetland	ORAM	Category		Size (Acre	is)		Impacts (Ac	res)
ID Score			Forest	Non-Forest	Total Acreage	Forest	Non-Forest	Total Impacts
W-3	22	1	0.47		0.47	0.01		0.01
W-13	17	1		0.71	0.71		0.01	0.01
			_		0.00			0.00
					0.00			0.00
					0.00			0.00
	•	Totals	0.47	0.71	1.18	0.01	0.01	0.02
Totals - Category 1 Wetlands		0.47	0.71	1.18	0.01	0.01	0.02	
Totals - Category 2 Wetlands				0.00			0.00	
Totals - Ca	tegory 3 V	Vetlands			0.00			0.00

#### Individual Isolated Wetland Information Table\*. Please list all isolated wetlands:

\*List more on separate sheets if needed.

#### List mitigation techniques utilized for the proposed filling:

Onsite	Offsite	90 <b>*</b> 1917 * * * *	Mitigati	on Acreage		Name of Bank	Watershed (include
(check)	(check)	Restored	Created	ed Enhanced Preserved (If Appl.		(If Appl.)	USGS 8-Digit HUC)
	×		0.03			Trumbull Creek	04110004
	Totals	0.00	0.03	0.00	0.00		

#### Fee Table:

a. Application Fee:	\$ <i>0</i>		
b. Review Fee (\$500.00 X): (Acres of impacts to the nearest 1/100 of an acre)		(Maximum \$5,000.00)	
c. Subtotal (add lines a and b):	\$0	(Maximum \$5,200.00)	
<ul> <li>d. After the Fact Fee (equal to line c): (Only if impacts have occurred without authorization)</li> </ul>		(Maximum \$5,200.00)	
e. Total Fee Amount (add lines c and d):	\$.O	(Maximum \$10,400.00)	
Please make fee check payable to: <b>"Treasurer,</b>	State of Ohio"		ſ

I certify that the information provided on this form and as part of this submittal regarding the project is true and accurate to the best of my knowledge:

Applicant Name (Print): Jones G Beasley

Applicant \_\_\_\_\_\_3/5/05 \_\_\_\_ Signature: 5 Beasle ame

Send completed application, including fee check, to:

Ohio EPA, Division of Surface Water P.O. Box 1049, Columbus, Ohio 43216-1049 ATTN: Isolated Wetlands Permitting



December 18, 2008

Re: Project 080597 Addendum No. 14 PID No. 13486 LAK-2-3.32 Major Widening Letting: January 21, 2009

Notice to all Bidders and Suppliers to please be advised of the attached Proposal Addendum.

The quantity sheets that show revised items will no longer be attached to the addenda. All Reference Item revisions are reflected in the EBS files (Expedite) for this project.

For internet access to information referenced in this addendum, please see the ODOT web-site at:

ftp://ftp.dot.state.oh.us/pub/Contracts/Attach/LAK-13486/

ADDENDA AND/OR AMENDMENTS MUST BE ACKNOWLEDGED IN THE MISCELLANEOUS SECTION OF THE EXPEDITE (EBS) FILE IN ORDER FOR YOUR BID TO BE CONSIDERED FOR AWARD OF THIS PROJECT. BID EXPRESS WILL NOT ACCEPT BIDS THAT DO NOT HAVE AMENDMENTS INCORPORATED. FAILURE TO INCORPORATE CHANGED QUANTITIES OR ITEMS IN YOUR EXPEDITE (EBS) SUBMISSIONS WILL RESULT IN THE REJECTION OF YOUR BID.

Respectfully,

ima Clan / 172

James G. Beasley Director Department of Transportation

## **Revised Bid Items:**

Ref. No.	Item Number	Quantit	Unit	Description
		У		
90	603E06100	2061	FT	15" Conduit, Type C
95	603E09100	213	FT	21" Conduit, Type C

#### **REVISED** plan sheet 975 is linked to this addendum.

**Revise Addendum #11:** Portable Concrete Barrier, 32 inches high with an 18 inch minimum height glare screen may be used at the option of the contractor. All conditions of the Item 622, Portable Concrete Barrier, 50", As Per Plan note on sheet 51 and 56E shall be followed.

## Answer to Prebid Question:

- Q: Plan sheet 723, ref. D-405 shows a 15" pipe leading from a catch basin to a headwall on Reynolds Road. Cross-section on plan sheet concurs that this is 15" pipe. Subsummary sheet 851 shows this run as a 21" pipe and not a 15" pipe (which in turn gets carried to general summary). Please clarify in an addendum whether this is 15" C or 21" C.
- A: The 15" Conduit, Type C is correct. 27' of 15" Conduit, Type C has been added and 27' of 21" Conduit, Type C has been subtracted in this addendum.
- Q: Please check the details on sheet 975 for the noise barrier drainage details. According to the dimensions on this sheet each drain measures 32' wide x 64' long x 8' deep with each drain spaced at 48' intervals.
- A: Revised dimensions are 4' wide x 8' long x 1' deep. Please see revised sheet 975 which is linked to this addendum.
- Q: Ref. 123- Catch Basin, 2-2B. Plan sheet 848- drainage subsummary shows 2 each but no source of quantity shown. Where are these 2 basins? Also, plan sheet 902 calls for a 2-2B catch basin with a solid top. Does this get paid for under this bid item or should it be paid separately under a new bid item?
- A: The two (2) CB-2-2B basins on sheet 848 was a typo. They should be removed from the overall quantity for CB-2-2Bs. On sheet 902, the intent is to use the proposed CB-2-2B catch basin as a junction structure. The solid top is not necessary, use the grate.



December 23, 2008

Re: Project 080597 Addendum No. 15 PID No. 13486 LAK-2-3.32 Major Widening Letting: January 21, 2009

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Respectfully,

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James G. Beasley Director Department of Transportation

## **Revised Bid Items:**

Ref. No.	Item Number	Quantit	Unit	Description
		у		
3	202E23000	208706	SY	Pavement Removed
150	302E46000	120142	CY	Asphalt Concrete Base, PG64-22
151	304E20000	74789	CY	Aggregate Base
152	407E10000	40703	Gal	Tack Coat
153	407E14000	20352	Gal	Tack Coat for Intermediate Course
1007	446E46050	666	CY	Asphalt Concrete Intermediate Course, Type 2, PG64-
				22
1008	448E47020	480	CY	Asphalt Concrete Surface Course, Type 1, PG64-22
112	603E96600	4628	FT	Conduit, Bored or Jacked: 15", Type B
113	603E96600	669	FT	Conduit, Bored or Jacked: 18", Type B

NEW ROW sheet is linked to this addendum.

NEW Plan sheet 29R is linked to this addendum.

# A REVISED pavement calculation spreadsheet has been posted on the Department's question and answer board. https://extranet.dot.state.oh.us/groups/contracts/Construction/PrebidQs.pdf

## **Answers to Prebid Questions:**

- Q: Ref. 3- Pavement Removed- the updated spreadsheets appear to total as follows: Mainline SR 2 = 146024 SY; VINE/SR 91/SR 306 Ramps = 45998 SY; Lost Nation Ramps = 10409 SY; Lost Nation Rd. = 14282 SY. In addition to these, plan sheet 834 shows 881 SY. These total 217,594 SY. Latest addendum received shows an updated plan quantity of 179,637 SY. Please clarify, review and make necessary revisions in an addendum.
- A: The pavement removed quantity has been revised for a total of 208,706 CY. Reference #3 has been revised in this addendum, and a revised spreadsheet has been posted.
- Q: The box culvert replacement at station 336 +/- shows an existing 16" waterline going directly over the culvert. Can this line be taken out of service? Will removal and replacement be paid as extra work?
- A: It is not anticipated that the waterline will require replacement or relocation, but will require support during construction.
- Q: The maintenance of traffic notes for this box replacement allows for weekend lane closures. The web site says friday from 7pm to 11am saturday, then 7pm saturday to 6am monday. This needs to be changed to allow work continuously from 7pm friday to 6am monday. The mot shows only barrels for protecting the work area which will be at least 13 feet deep with traffic only feet away. Barrier protection needs to be included for reasonable safety.
- A: The successful bidder may include these items the contractor prepared MOT plans. The web site for lane closures will not be revised.

- Q: The new and existing boxes are on differing alignments. This greatly complicates the excavation and water handling schemes. Is there a compelling reason not to place the new structure on the existing alignment?
- A: The proposed box was placed on a different alignment for several reasons: To maintain minimum cover over the pipe at SR 2, maintain as much clearance as possible from the existing sanitary sewer and manhole on Stevens Blvd, to keep the junction structure near the top of the slope for easier maintenance and provide sufficient length for the flow discharge to return to a "less turbulent" regime due to the presence of the junction structure. Also, it allows for a better angle to outlet into the stream.
- Q: The box cuts through Stevens Blvd. What is the pavement cross section for Stevens? Will pavement replacement be paid under the various bid items?
- A: The pavement replacement detail is on sheet 199/1679. The quantities associated with this detail are:
  5.4 CY of Item 448 1.25" AC Surface Course
  7.6 CY of Item 446 1.75" AC Intermediate Course
  26 CY of Item 302 6" AC Base
  26 CY of Item 304 6" Aggregate Base
  16 Gal of Item 407 Tack Coat
  8 Gal of Item 407 Tack Coat for Intermediate Course
  These quantities have been added to this addendum.
- Q: Sanitary sewer ss-4 is shown on sheets 1030a/b.This installation will require a very wide excavation with an area for temporary storage of excavated materials. Is the adjacent property available for use to accomplish this work?
- A: The temporary right of way acquired by the City of Willoughby has been included with this addendum. A new ROW sheet has been linked to this addendum.
- Q: There is no quantity for pavement removed for Lakeland Blvd in the plans or office calculations. Could the District please include this quantity or identify where it is?
- A: The quantity has been added to addendum #15 and an updated spreadsheet posted.
- Q: Addendum No.10 added Concrete Alternate items to bid including separate alternate bid items for the various Concrete Barrier Wall items. Will ODOT provide square yard compensation for item 888 11.5" Non Reinforced Concrete Pavement for pavement areas under the proposed barriers? Asphalt typical sections indicate and provide compensation for the 302 10" Asphalt Concrete Base. Please confirm and advise.
- A: The bid price for the concrete alternative concrete barrier should include the concrete required for the entire barrier. Per standard drawing RM-4.3: "When barrier is constructed in conjunction with new concrete pavement, place it directly on the base material. Construct the concrete slab against the barrier".
- Q: Plan sheet 889, Ref. D-1- shown on this sheet as well as sheet 912 as 18" Bored Pipe. Plan sheet 846 subsummary shows this as a 15" Bored Pipe, which is then continued to general summary. Please verify bore size in an addendum.
- A: 18" bored pipe is correct. See this addendum.
- Q: Regarding an answer in Addendum # 11 about the raceway in the barrier wall the owner answered, "The reaceways are included in the cost of the barrier where required as per details RM-4.3, 4.4, and 4.5, so no quantity changes are required." Please clarify what item # 223 - "CONDUIT 4", 725.05 (MEDIAN BARRIER)" is for? We assumed this was to pay for the raceway in the barrier wall.
- A: You are correct, the raceway is paid for separately under ref. No. 223. The quantities are correct with

only one raceway.

- Q: There are no existing typical sections for the Lost Nation Road ramps provided in the plans. Could the District please provide these typical sections?
- A: A plan sheet with the existing Lost Nation Rd. ramps is linked to this addendum.



December 24, 2008

Re: Project 080597 Addendum No. 16 PID No. 13486 LAK-2-3.32 Major Widening Letting: January 21, 2009

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Respectfully,

Jame alter y /m

James G. Beasley Director Department of Transportation

Revised the following Items:

Ref.	Item	Quantit	Unit	Description	TRAC	Major
No.	Number	у				Rehab
1050	622E40047	3059	FT	Portable Concrete Barrier, 50", Bridge	2294	765
				Mounted, As Per Plan		

## Add the following notes:

Bridge mounted portable concrete barrier, 32 inches high with an 18 inch minimum height glare screen shall be used. The glare screen shall be constructed using one of the screens provided on the approved list, available on the Office of Material Management web page at http://www.dot.state.oh.us/testlab/applists/misc/glarescreen.htm.

Paddle or intermittent type glare screens shall be designed using a 20 degree cut off angle based on tangent alignment. That spacing shall be used throughout the barrier length without regard to barrier curvature.

The glare screen system shall be securely fastened to the 32 inch bridge mounted portable concrete barrier using the hardware and procedures specified by the manufacturer.

Payment shall include all labor, material and equipment necessary to perform the work and shall be paid for at the contract price per foot for Item 622, Bridge Mounted Portable Concrete Barrier, 50", As Per Plan.

Any reference in the bidding documents to October 1<sup>st</sup> as the winter time limitation shall read November 1<sup>st</sup>. By November 1<sup>st</sup> of each year, complete all pavement work ( up to and including the proposed intermediate course, for the asphalt alternative) required for the affected stage of construction and return traffic to unshifted position with full lane widths.

Answers to Prebid Questions:

- Q: Addendum 10 addressed in the maintenance of traffic in requirement #12 that all normal lanes of traffic shall be open to unrestricted traffic from November 1 through March 1. Does this mean the winter time limitation note #1 on plan sheets 53 and 56G should be changed from October 1 to November 1? Also, winter time limitation note #2 states that traffic shifts for bridge work may remain in place between November 1 and March 1. Does this still apply?
- A: The winter time restriction has been changed to November 1st in this addendum. Yes bridge work may remain in place between November 1st and March 1st with the limitations specified in the winter time limitations note #2.
- Q: Addendum No. 11 added reference No.1050, Portable Concrete Barrier 50" Bridge Mounted. Per SCD RM-4.1 (10/20/06) wall is not to be used on bridge deck edges or similar drop-offs. The only suitable barrier is 32" PCB per Structural Engineering's Standard Drawing PCB-91 (7/19/02). Please advise, there is no 50" approved Bridge Mounted Portable Concrete Barrier for ODOT.
- A: Portable concrete barrier 50", bridge mounted as per plan has been added to this addendum. Use 32" PCB bridge mounted with 18" high glare screen.



January 5, 2009

Re: Project 080597 Addendum No. 17 PID No. 13486 LAK-2-3.32 Major Widening Letting: January 21, 2009

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Respectfully,

Jame Clary /m

James G. Beasley Director Department of Transportation

Ref.	Item	Quantit	Unit	Description
No.	Number	У		
10	202E35200	2133	FT	Pipe Removed, Over 24"
931	606E10310	126752	SF	Special – Noise Barrier (Absorptive), Over 10' to 14' Height
1027	206E10500	12230	Ton	Cement
1028	206E11000	411788	SY	Curing Coat
1029	206E15000	411788	SY	Cement Stabilized Subgrade 12" Deep
1032	304E20000	66790	CY	Aggregate Base
1034	888E14060	386215	SY	Portland Cement Concrete Pavement, 11.5" Thick (Non-
				Reinforced Per 452)

Revise the following Items:

## Answers to prebid Questions:

- Q: The noisewall method of measurement on sheet 967 states that noise barrier constructed below the ground line shall not be included for payment. This is an old note and is contrary to the current ODOT measurement for noisewall. Please amend this note to pay for all wall from the bottom of the bottom panel to the top of the top panel including coping. This has been an issue on several recent projects, please review the most recent noisewall guidelines from central office and revise this project accordingly.
- A: The quantities have been revised in this addendum to include the entire SF of wall for payment.
- Q: The noisewall notes on sheet 967 state that there is incidental seeding and mulching paid with the noisewalls. This has been changed on many projects since there are already established unit prices for this work in other items. It order to simplify measurement and payment of erosion control items, we request that any seeding and mulching around the noisewalls be paid for at the established project unit prices.
- A: The seeding and mulching included with the restoration of work area is for crown vetch, which is different from a standard roadside mix, so bid as per plan.
- Q: Quantities for Item 202 Pipe Removed Over 24 inches, was revised in addendum 11 and addendum 12. The quantity added in addendum 11 was not taken into consideration when the department deleted quantity in addendum 12. Please revise and include a corrected quantity spreadsheet, which references pipe locations that are to be removed using this bid item, and add it in an addendum.
- A: The quantity has been revised in this addendum.
- Q: Quantities derived on "scratch paper" for Alternate AA2 appear to be inconsistent with quantities provided for the same work in Alternate AA1. Please provide some documentation proving that these two alternate bids are indeed comparative for bidding purposes. Original Asphalt calculation sheets have had numerous errors (some still yet to be corrected). For example AA2 Item 304 Aggregate Base is shown at T = 6" in the revised typical sections (for concrete alternate). The quantity of this item (50,332 CY) is 24,431 CY less than the Asphalt Alternate AA1 for the same thickness and comparative areas. Please advise in an addendum.
- A: Revised calculations have been posted at ftp://ftp.dot.state.oh.us/pub/Contracts/Attach/LAK-13486/.

The quantities were based on the most current spreadsheet from the consultant. Some differences from my original quantities were found, (probably due to the numerous revisions of the spreadsheet), and have revised them in this addendum.

- Q: #304 Aggregate base quantities for both alternates appear to be incorrect. The up-to-date aggregate base quantity for the asphalt alternate is 74789 cy. The aggregate base quantity for the concrete alternate is 50332 cy. Based on the foot print areas covered by both, the asphalt alternate's #304 base appears to be overstated and the concrete alternate's #304 base appears to be understated. One suggestion to these differences could be the volume of stone base under areas not covered in the alternates being included in one but not the other. Should there be a separate #304 aggregate base item for those areas not covered in the alternates? Please review, revise, and provide updated calculations for both alternates including all 304, asphalt, concrete, and affected quantities in an addendum.
- A: I have posted the concrete pavement calculation ftp://ftp.dot.state.oh.us/pub/Contracts/Attach/LAK-13486/ and the aggregate base quantity has increased.
- Q: Addendum 11 added reference 1048 Item 448 Asphalt Concrete Intermediate Course, PG 64-22 and reference 1049 Item 448 Asphalt Concrete Surface Course, PG 64-22. Items already exist in the EBS file for this work. What is the Department's intent for these items?
- A: Reference numbers 1048 and 1049 were added for the paving of SR-91 and SR-306 that was inadvertently omitted from the general summary. Reference numbers 157, 158 and 159 are for driveways or under guardrail.
- Q: How is the pavement widening on side roads SR 306 and SR 91 to be handled if the concrete alternate is accepted?
- A: The side road pavements are unchanged regardless of the alternative chosen. If the concrete alternative is chosen, the ramps would be paved up to the saw cut already shown in the plans.
- Q: In the revised roadway subsummary submitted in Addendum # 11 it appears that at each "CONCRETE BARRIER END ANCHOR REINFORCED" 15 ft of barrier is being subtracted from the quantity of the "CONCRETE BARRIER, SINGLE SLOPE, TYPE B1". However, in the standard drawings RM 4.3 no menstion is made of deducting any footage from the barrier wall at end achors (see list of what is to be deducted at bottom of page RM 4.3 page 1/2). Also, on RM 4.5 page 1/2 is shows the pay lenght of "Item 622 CONCRETE BARRIER, SINGLE SLOPE, TYPE D" overlapping the 15ft of end anchor. Please clarify if the Concrete Barrier, Single Slope, Type B1 and Type D will be paid through the end anchorages, or if 15ft of wall will be deducted at each end anchor, thus requiring the cost of this deducted barrier to be added to the end anchor pay item.
- A: According to the standard drawings, the 15' sections were subtracted from the concrete barrier quantity and included with the end anchor quantity.
- Q: A prebid question was asked back on November 24, 2008 regarding construction noise and lane closure availabilities. The response was that ODOT was awaiting signed noise variances from 2 of 3 cities, and that only one had been signed. Is there an update on the status of this? Will there be any restrictions on night work?
- A: We have signed noise variances from all three Cities. There will be no restrictions on night work concerning noise, except the contractor must adhere with the construction noise note on sheet 41/1679.



## THE DEPARTMENT USES THE BID EXPRESS WEBSITE, http://www.bidx.com AS AN OFFICIAL REPOSITORY FOR ELECTRONIC BID SUBMITTAL. BIDDERS MUST PREPARE THEIR BIDS ELECTRONICALLY USING EXPEDITE AND SUBMITTED VIA BID EXPRESS.

January 12, 2009

Re: Project 080597 Addendum No. 18 PID No. 13486 LAK-2-3.32 Major Widening Letting: January 21, 2009

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Respectfully,

ima Clan / 172

James G. Beasley Director Department of Transportation

TP:jwt

# Proposal Addendum For LAK-2-3.32; PID 13486 Project 080597

Revise the following Items:

Ref. No.	Item Number	Quantit	Unit	Description			
		У					
30	604E38500	10	Each	Monument Assembly			
455	503E21101	205	CY	Unclassified Excavation, As Per Plan			
480	503E21101	4511	CY	Unclassified Excavation, As Per Plan			
939	604E38500	57	Each	Monument Assembly			
1032	304E20000	72509	CY	Aggregate Base			

#### **Revise sheet 953:**

The callouts and dimension lines for "WALL QUANTITIES" and "ROADWAY QUANTITIES" at the bottom of the Section A-A should be removed. The hatch for the fill material should be extended to the cutline that the excavation limits are currently extended too. The legend note should be revised to read "FILL MATERIAL TO BE INCLUDED WITH ROADWAY ITEM 203 FOR PAYMENT" instead of "FILL MATERIAL TO BE INCLUDED IN WALL QUANTITIES FOR PAYMENT."

#### Add Note:

Longitudinal tining as per SS 800, dated 10-17-2008 is approved by the Director. Should Concrete Pavement be the awarded alternate, the successful bidder will provide longitudinal tinning as per SS 800 dated 10-17-08. Reference is made to PN 420 for surface smoothness requirements, including corrective action.

In response to a pre-bid question, existing plan sheets are linked to the internet address listed on the cover page of this addendum.



## THE DEPARTMENT USES THE BID EXPRESS WEBSITE, http://www.bidx.com AS AN OFFICIAL REPOSITORY FOR ELECTRONIC BID SUBMITTAL. BIDDERS MUST PREPARE THEIR BIDS ELECTRONICALLY USING EXPEDITE AND SUBMITTED VIA BID EXPRESS.

January 12, 2009

Re: Project 080597 Addendum No. 19 PID No. 13486 LAK-2-3.32 Major Widening Letting: January 21, 2009

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ADDENDA AND/OR AMENDMENTS MUST BE ACKNOWLEDGED IN THE MISCELLANEOUS SECTION OF THE EXPEDITE (EBS) FILE IN ORDER FOR YOUR BID TO BE CONSIDERED FOR AWARD OF THIS PROJECT. BID EXPRESS WILL NOT ACCEPT BIDS THAT DO NOT HAVE AMENDMENTS INCORPORATED. FAILURE TO INCORPORATE CHANGED QUANTITIES OR ITEMS IN YOUR EXPEDITE (EBS) SUBMISSIONS WILL RESULT IN THE REJECTION OF YOUR BID.

Respectfully,

Jama alany /m

James G. Beasley Director Department of Transportation

TP:jwt

# Proposal Addendum For LAK-2-3.32; PID 13486 Project 080597

Revise the following Items:

Ref. No.	Item Number	Quantity	Unit	Description
17	202E70100	500	FT	Special – Pipe Cleanout
302	645E00400	3793	FT	Channelizing Line, Type A1
307	646E10401	1401	FT	Stop Line, As Per Plan
308	646E10501	2542	FT	Crosswalk Line, As Per Plan
309	646E10601	1719	FT	Transverse/Diagonal Line, As Per Plan
310	646E10801	190	SF	Island Marking, As Per Plan
311	646E20301	80	Each	Lane Arrow, As Per Plan
312	646E20501	7904	FT	Dotted Line, As Per Plan

Delete the following items:

Ref. No.	Item Number	Quantity	Unit	Description
1007	446E46050	661	CY	Asphalt Concrete Intermediate Course, Type 2, PG64-22
1049	448E47020	472	CY	Asphalt Concrete Surface Course, Type 1, PG64-22

Add the following items:

Ref. No.	Item Number	Quantity	Unit	Description
1055	645E01300	120	Each	Lane Arrow, Type A1

Revise sheet 14/1679 as follows:

Add: (34) Item 448E46050 – Asphalt Concrete Intermediate Course, Type 2, PG64-22

(35) Item 448E47020 – Asphalt Concrete Surface Course, Type 1, PG64-22 to the legend.

The 404/401 Permit is attached to this addendum.

Sheet 40/1679 has been replaced with the linked sheet 40/1679. To view this sheet, go to the internet address listed on the cover of this addendum.

# **SPECIAL PROVISIONS**

# 404 PERMIT- WATERWAY PERMITS

CRS: LAK-2-3.32 PID: 13486

 404 INDIVIDUAL PERMIT FROM THE US ARMY CORPS OF ENGINEERS. (Permit No. 2006-2200-CHA, EFFECTIVE 10/29/2008, EXPIRES ON 12/31/2013)



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

October 29, 2008

Operations and Readiness Division Regulatory Branch 2006-2200-CHA (Chagrin River) LAK-2-3.32, PID: 13486

Mr. James G. Beasley Ohio Department of Transportation 1980 West Broad Street Columbus, Ohio 43223

Dear Mr. Beasley:

Enclosed is one original and one copy of Department of the Army (DA) Permit Number 2007-342-GMR, authorizing the placement of fill material into waters of the United States for activities associated with the State Route (SR) 2 reconstruction project located between SR 91 on the west and SR 44 on the east, near the municipalities of Eastlake, Willoughby and Mentor in Lake County, Ohio.

Work associated with the proposed project would involve the permanent placement of approximately 4,285 cubic yards of fill material into 3,547 linear feet of fourteen jurisdictional streams and approximately 32,295 cubic yards of fill material into 3.53 acres of six jurisdictional wetlands for the construction of a fourth lane in both east and west bound directions of SR 2 between SR 91 and SR 640 (Vine Street), and between SR 44 N (Heisley Road) and SR 44 S; a third lane in both east and west bound directions of SR 2 between SR 640 and SR 44 N. In addition, the project also consists of reconfiguration of seven interchanges along SR 2 (SR 91, SR 640, Lost Nation Road, SR 306, SR 615, SR 44 north and SR 44 south), widening the existing bridge over Newell Creek (Stream 10) and the Chagrin River, replacement of the existing bridge over Heisley Creek (Stream 15), construction of a new 37-foot wide bridge over the Chagrin River for Ramp D, replacement of existing culverts, and patching and waterproofing of concrete slab structures within this section of the SR 2 corridor. The project would also involve the temporary placement of approximately 444 cubic yards of fill material into 0.07 acre of the Chagrin River for construction access.

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 are found 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.

If you have any questions regarding the information in this letter or the enclosures, please contact Peter Clingan at 614-692-4654.

Sineerely,

Rebecca A. Rutherford / Chief, North Regulatory Section

Enclosures

Copies Furnished w/ enclosures

Mr. Arthur Coleman Ohio Environmental Protection Agency Division of Surface Water Post Office Box 1049 Columbus, Ohio 43215

Mr. Mark Epstein Ohio Historic Preservation Office 567 East Hudson Street Columbus, Ohio 43221-1130

Ms. Mary Knapp U.S. Fish and Wildlife Service 6950 Americana Parkway, Suite H Reynoldsburg, Ohio 43068-4127

Mr. Michael Pettegrew Office of Environmental Services Ohio Department of Transportation Post Office Box 899 Columbus, Ohio 43216-0899 Mr. Ric Queen Ohio Environmental Protection Agency Division of Surface Water Post Office Box 1049 Columbus, Ohio 43215

Mr. Donald Rostofer Office of Environmental Services Ohio Department of Transportation Post Office Box 899 Columbus, Ohio 43216-0899

Mr. Dave Schulenburg U.S. Environmental Protection Agency Region V, WQW-16-J 77 West Jackson Street Chicago, Illinois 60604-3590

#### DEPARTMENT OF THE ARMY PERMIT

#### Permittee: Ohio Department of Transportation

#### Permit No: 2006-2200-CHA (Chagrin 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: This permit authorizes the placement of fill material for activities associated with the State Route (SR) 2 reconstruction project located between SR 91 on the west and SR 44 on the east, near the municipalities of Eastlake, Willoughby and Mentor in Lake County, Ohio.

Work associated with the proposed project would involve the permanent placement of approximately 4,285 cubic yards of fill material into 3,547 linear feet of fourteen jurisdictional streams and approximately 32,295 cubic yards of fill material into 3.53 acres of six jurisdictional wetlands for the construction of a fourth lane in both east and west bound directions of SR 2 between SR 91 and SR 640 (Vine Street), and between SR 44 N (Heisley Road) and SR 44 S; a third lane in both east and west bound directions of SR 2 between SR 640 and SR 44 N. In addition, the project also consists of reconfiguration of seven interchanges along SR 2 (SR 91, SR 640, Lost Nation Road, SR 306, SR 615, SR 44 north and SR 44 south), widening the existing bridges over Newell Creek (Stream 10) and the Chagrin River, replacement of the existing bridge over Heisley Creek (Stream 15), construction of a new 37-foot wide bridge over the Chagrin River for Ramp D, replacement of existing culverts, and patching and waterproofing of concrete slab structures within this section of the SR 2 corridor. The project would also involve the temporary placement of approximately 444 cubic yards of fill material into 0.07 acre of the Chagrin River for construction access.

Project Location: The project is located in fourteen jurisdictional streams and six jurisdictional wetlands along State Route (SR) 2 between SR 91 on the west and SR 44 on the east, near the municipalities of Eastlake, Willoughby and Mentor in Lake County, Ohio.

Permit Conditions:

General Conditions:

- 1. The time limit for completing the work authorized ends on <u>December 31, 2013</u>. 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 a separate page and are titled "Special Conditions for the Authorization Issued to Ohio Department of Transportation 2006-2200-CHA, LAK-2-3.32, PID: 13486."

#### Further Information:

- 1. Congressional Authorities: You have been authorized to undertake the activity described above pursuant to:
  - (x) Section 10 of the Rivers and Harbors Act of 1899 (33 U.S.C. 403).
  - (x) Section 404 of the Clean Water Act (33 U.S.C. 1344).
  - () 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.

(DATE) omes effective when the Federal official, designated to act for the Secretary of the Army, has signed below. (DISTRICT ENGINEER) DATE) DANA R. HURST Colonel, Corps of Engineers District Engineer

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)

EDITION OF SEP 82 IS OBSOLETE

### Special Conditions for the Authorization Issued to Ohio Department of Transportation 2006-2200-CHA LAK-2-3.32, PID: 13486 Page 1(2)

1. Work shall be done in accordance with the attached plans labeled 2006-2200-CHA, LAK-2-3.32, PID: 13486, sheets 1-50.

2. All conditions attached to or contained within the Ohio Environmental Protection Agency's Water Quality Certification dated August 12, 2008, are hereby incorporated by reference as being special conditions of this permit.

3. To compensate for 3.53 acres of unavoidable wetland impacts, the permittee shall purchase a total of 5.4 acres of wetland credit from the Trumbull Creek Wetland Mitigation Bank located on SR 166 along the Ashtabula-Geauga County line and provide this office with an updated balance sheet.

4. To compensate for 3,547 linear feet of unavoidable stream impacts, the applicant proposes to place a 200-foot easement (100 feet on each side) along 5,321 linear feet of stream on a 155-acre parcel in northwest Trumbull County identified as Groves Woods, which includes a portion of Garden Creek as well as Class II and Class III primary headwater tributaries. The permitte shall provide this office with a copy of the conservation easement within one year from the date of issuance of a permit.

5. All temporary fill material must be removed to an upland location at the completion of construction activities and the river bottom restored to pre-construction contours to the maximum extent practicable.

6. Appropriate site specific best management practices (BMP) for sediment and erosion control will be fully implemented during construction activities at the site. The BMPs include, but are not limited to, the utilization of silt fences, straw bales, check dams, mulching and seeding.

7. Prior to the initiation of any construction activities on bridges, including the removal of any bridge structures, the underside of each bridge must be carefully examined for the presence of bats, especially between April 1 and September 30. If any bats are found roosting on the underside of the bridge, you will immediately contact the United States Fish and Wildlife Service, Reynoldsburg Field Office at (614) 469-6923.

## 2006-2200-CHA LAK-2-3.32, PID: 13486 Page 2(2)

8. Section 7 obligations under the Federal Endangered Species Act must be reconsidered if new information revealing impacts of the proposed project that may affect federally listed species or critical habitat in a manner not previously considered, the project is subsequently modified to include actions which were not considered during Section 7 consultation with the USFWS or new species are listed or critical habitat designated might be affected by the proposed project.

9. In the event of an inadvertent discovery of archaeological or cultural resources, including suspected human remains, during construction activities on site, you shall immediately cease all work and contact this office at 614-692-4654 and the Ohio Historic Preservation Office at 614-298-2000. We will initiate the Federal, state, and Native American 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. If such events occur, you shall ensure work on site is not reinitiated until you have received notification in writing from this office that obligations under Section 106 or the National Historic Preservation Act are fulfilled and on-site disturbance may occur. In the event that human remains are discovered, you shall also contact the Lake County Sheriff's office at 440-350-5620.

10. The permittee must obtain any required flood hazard area development permits prior to construction.

11. The permittee is solely responsible for insuring that all activities are performed in compliance with all permit conditions.

12. The permittee is responsible for ensuring that all contractors and/or workers executing the activity(s) authorized by this permit have knowledge of the terms and conditions of the authorization and that a copy of the permit document with attached special conditions and site development plan is kept at the site during construction.

13. If any changes in the location and/or plans, or proposed impacts of the project are found necessary, the permittee must submit written information concerning the proposed modification(s) to this office for review and evaluation.

NOTHFICATION OF ADMINISTRATIVE APPEAL OPTIONS AND PROCESS AND REQUEST FOR APPEAL

Applic	ant: Ohio Department of Transportation	File Number:2006-2200-CHA	Date: 10/29/08
Attach	ed is:		See Section below
X	INITIAL PROFFERED PERMIT (Standard P	ermit or Letter of permission)	A
	PROFFERED PERMIT (Standard Permit or L	etter of permission)	В
	PERMIT DENIAL		C
	D		
	PRELIMINARY JURISDICTIONAL DETER	MINATION	E

SECTION 1:- The following identifies your rights and options regarding an administrative appeal of the above decision: Additional information may be found at http://usace.army.mil/inet/functions/cw/cecwo/reg or Corps regulations at 33 CFR Part 331.

# A: INITIAL PROFFERED PERMIT: You may accept or object to the permit.

- ACCEPT: If you received a Standard Permit, you may sign the permit document and return it to the district engineer for final
  authorization. If you received a Letter of Permission (LOP), you may accept the LOP and your work is authorized. Your
  signature on the Standard Permit or acceptance of the LOP means that you accept the permit in its entirety, and waive all rights
  to appeal the permit, including its terms and conditions, and approved jurisdictional determinations associated with the permit.
- OBJECT: If you object to the permit (Standard or LOP) because of certain terms and conditions therein, you may request that the permit be modified accordingly. You must complete Section II of this form and return the form to the district engineer. Your objections must be received by the district engineer within 60 days of the date of this notice, or you will forfeit your right to appeal the permit in the future. Upon receipt of your letter, the district engineer will evaluate your objections, and may: (a) modify the permit to address all of your concerns, (b) modify the permit to address some of your objections, or (c) not modify the permit having determined that the permit should be issued as previously written. After evaluating your objections, the district engineer will send you a proffered permit for your reconsideration, as indicated in Section B below.

#### B: PROFFERED PERMIT: You may accept or appeal the permit

- ACCEPT: If you received a Standard Permit, you may sign the permit document and return it to the district engineer for final
  authorization. If you received a Letter of Permission (LOP), you may accept the LOP and your work is authorized. Your
  signature on the Standard Permit or acceptance of the LOP means that you accept the permit in its entirety, and waive all rights
  to appeal the permit, including its terms and conditions, and approved jurisdictional determinations associated with the permit.
- APPEAL: If you choose to decline the proffered permit (Standard or LOP) because of certain terms and conditions therein, you may appeal the declined permit under the Corps of Engineers Administrative Appeal Process by completing Section II of this form and sending the form to the division engineer. This form must be received by the division engineer within 60 days of the date of this notice.

C: PERMIT DENIAL: You may appeal the denial of a permit under the Corps of Engineers Administrative Appeal Process by completing Section II of this form and sending the form to the division engineer. This form must be received by the division engineer within 60 days of the date of this notice.

D: APPROVED JURISDICTIONAL DETERMINATION: You may accept or appeal the approved JD or provide new information.

- ACCEPT: You do not need to notify the Corps to accept an approved JD. Failure to notify the Corps within 60 days of the date of this notice, means that you accept the approved JD in its entirety, and waive all rights to appeal the approved JD.
- APPEAL: If you disagree with the approved JD, you may appeal the approved JD under the Corps of Engineers Administrative Appeal Process by completing Section II of this form and sending the form to the division engineer. This form must be received by the division engineer within 60 days of the date of this notice.

E: PRELIMINARY JURISDICTIONAL DETERMINATION: You do not need to respond to the Corps regarding the preliminary JD. The Preliminary JD is not appealable. If you wish, you may request an approved JD (which may be appealed), by contacting the Corps district for further instruction. Also you may provide new information for further consideration by the Corps to reevaluate the JD.

				PEAL							

REASONS FOR APPEAL OR OBJECTIONS: (Describe your reasons for appealing the decision or your objections to an initial proffered permit in clear concise statements. You may attach additional information to this form to clarify where your reasons or objections are addressed in the administrative record.)

ADDITIONAL INFORMATION: The appeal is limited to a review of the administrative record, the Corps memorandum for the record of the appeal conference or meeting, and any supplemental information that the review officer has determined is needed to clarify the administrative record. Neither the appellant nor the Corps may add new information or analyses to the record. However, you may provide additional information to clarify the location of information that is already in the administrative record.

POINT OF CONTACT FOR QUESTIONS OR INFOR	MATION:	and as the apply and the second
If you have questions regarding this decision and/or the appeal	If you only have questions regardi	ing the appeal process you may
process you may contact:	also contact:	
Ginger Mullins, Chief, Regulatory Branch, 304-399-5389		
Rebecca Rutherford, Ch, North Regulatory Section 304-399-5210	Mr. Mike Montone	
Mark Taylor, Chief, South Regulatory Section, 304 399-5710	Great Lakes and Ohio River Division	
	550 Main Street, Room 10032	
Address: U.S. Army Corps of Engineers	Cincinnati, Ohio 45202-3222	
Regulatory Branch	Phone: (513) 684-6212	
502 8 <sup>th</sup> Street		
Huntington, WV 25701		
RIGHT OF ENTRY: Your signature below grants the right of ent		
consultants, to conduct investigations of the project site during the		will be provided a 15 day
notice of any site investigation, and will have the opportunity to pa	articipate in all site investigations.	
	Date:	Telephone number:
		*
Signature of appellant or agent.		

# **SPECIAL PROVISIONS**

# 401 WATER QUALITY CERTIFICATION – WATERWAY PERMITS

CRS: LAK-2-3.32 PID: 13486

 401 WATER QUALITY CERTIFICATION FROM THE OHIO EPA (PERMIT NO. 083387; EFFECTIVE 08/12/2008, EXPIRES ON 08/12/2013)



OHIO E.P.A.

State of Ohio Environmental Protection Agency

AUG 12 2 MAILING ADDRESS:

e,

STREET ADDRESS:

Lazarus Government Center 50 W. Town St., Suite 700 Columbus, Ohio 43215 TELE: (614) 644-3020 FAX: (614) 644-3184 www.epa.state.oh.us P.O. Box 1049

**Certified Mail** 

August 12, 2008

Mr. James G. Beasley, P.E., P.S., Director Ohio Department of Transportation 1980 West Broad Street Columbus, Ohio 43223 I certify this to be a true and accurate copy of the official documents as filed in the records of the Ohio Environmental Protection Agency.

12. Date: 8-12-1

c/o Timothy M. Hill, Administrator, Office of Environmental Services

Re: Lake County Grant of Section 401 Water Quality Certification Project: (Minimal Degradation Alternative) to enhance safety and reduce congestion, and add third lane on State Route (SR) 2 in Lake County, Ohio. ACOE Public Notice No. 2006-2200-CHA Ohio EPA ID No. 083387 ODOT ID Code:LAK-2-3.32, PID 13486

Ladies and Gentlemen:

The Director of Ohio Environmental Protection Agency hereby authorizes the above referenced project under the following authority.

#### Section 401 Water Quality Certification

Pursuant to Section 401 of the Federal Water Pollution Control Act, Public Law 95-217, the Director of Ohio Environmental Protection Agency hereby certifies that the abovereferenced project will comply with the applicable provisions of Sections 301, 302, 303, 306, and 307 of the Federal Water Pollution Control Act.

This authorization is specifically limited to a 401 water quality certification with respect to water pollution and does not relieve the applicant of further certifications or Permits as may be necessary under the law. I have determined that a lowering of water quality in the Chagrin River Watershed (HUC 04100009) as authorized by this certification is necessary. I have made this determination based upon the consideration of all public comments, and including the technical, social, and economic considerations concerning this application and its impact on waters of the state.

Ted Strickland, Governor Lee Fisher, Lieutenant Governor Chris Korleski, Director

Ohio EPA is an Equal Opportunity Employer

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AUG 1 4 2008

OFFICE OF

ENVIRONMENTAL SERVICES

#### **On-Site Water Resources and Impacts** | 1.

				TABL	E - 1				
Wetla nd ID	Wetland I	Long	ORAM Score*	Cat	Wetland Type F <sup>1</sup> NF PEM <sup>3</sup> PSS <sup>1</sup> PFO <sup>5</sup>	Total Size (acres)	Total Size Impacte cl (acres)	Impact. Type	% Avoide d
Wetland 4/5	41 <sup>0</sup> 39'48" N	81 <sup>0</sup> 22'52" W	36.0 29.0	Mod. 2 1	PEM	1.48	0.02	Fill	98.65
Wetland 7	41 <sup>0</sup> 39'15" N	81 <sup>0</sup> 24'28" W	27.0	1	PEM/ Scrub- Shrub	2.23	1.92	Fill	14.35
Wetland 11	41 <sup>0</sup> 41'10" N	81 <sup>0</sup> 20'16" W	22.0	1	PEM	2.40	0.01	Fill	99.58
Wetland 12	41 <sup>0</sup> 39'10" N	81 <sup>0</sup> 24'33" W	24	1	PEM	1.64	1.41	Fill	14.02
Wetland 21	41 <sup>0</sup> 41'34" N	81 <sup>0</sup> 19'37" W	6.0	1	PEM	0.20	0.12	Fill	40.0
Wetland 30	41 <sup>0</sup> 39'12" N	81 <sup>0</sup> 26'16" W	7.0	1	PEM	0,56	0.05	Fill	91.07
		ТОТА				8.51	3.53		

#### Jurisdictional Wetlands Α.

\* As provided by applicant, <sup>4</sup> Palustrine Scrub-Shrub <sup>2</sup> Non-Forest, <sup>3</sup> Palustrine Emergent Marsh <sup>1</sup> Forest, <sup>5</sup> Palustrine Forested

*Stream ID	Stream Loca Coordi	And it for the second	QHEI/HHEI Score		Impact Length	Impact Type
	Lat	Long			(If)	
Stream 1 (UT to Mentor Marsh	41 <sup>0</sup> 43'13" N	81 <sup>0</sup> 17'23" W	56 HHEI	Class II, PHWH	70	Culvert replacement
Stream 2 (UT to Chagrin River)	41 <sup>0</sup> 38'38" N	81 <sup>0</sup> 25'34" W	64 HHEI	Class II, PHWH	40	Culvert
Stream 3 (UT to Stream 1 to	41 <sup>0</sup> 43'03" N	81 <sup>0</sup> 17'53" W	45 HHEI	Class II, PHWH	907	Relocation
Mentor Marsh) Stream 4 (UT to	41 <sup>0</sup> 43'03" N	81 <sup>0</sup> 18'03" W	50 HHEI	Class II, PHWH	1,050	Relocation
Wasson Ditch) Stream 5 (UT to	41 <sup>0</sup> 42'17" N	81 <sup>0</sup> 18′54" W	64 HHEI	Class III, PHWH	33	Culvert replacement
Heisley Creek) Stream 6 (Marsh	41 <sup>0</sup> 41'34" N	81 <sup>0</sup> 19'38" W	64.25 QHEI	WWH	65	Repair concrete slab
Creek) Stream 8 (UT to	41 <sup>0</sup> 41'34" N	81 <sup>0</sup> 19'38" W	14 HHEI	Class I, PHWH	70	Culvert replacement
Stream 9) Stream 9 (UT to UT to Chagrin	41 <sup>0</sup> 40'50" N	81 <sup>0</sup> 21'30" W	78 HHEI	Class III, PHWH	120	Repair concrete slab
River) Stream 10	41 <sup>0</sup> 40'17" N	81 <sup>0</sup> 22'12" W	24 HHEI	Class I, PHWH	240	Bridge work
(Newell Creek) Stream 12 (UT	41 <sup>0</sup> 39'43" N	81 <sup>0</sup> 22'53" W	69 HHEI	Class III, PHWH	161	Culvert replacement
to Chagrin River) Stream 13 (UT	41 <sup>0</sup> 38'56" N	81 <sup>0</sup> 25'00" W	51 HHEI	Class II, PHWH	85	Culvert replacement
to Chagrin River) Stream 14	41 <sup>0</sup> 43'03" N	81 <sup>0</sup> 18'03" W	56 HHEI	WWH, provisional	105	Culvert replacement
(Wasson Ditch) Stream 15 (Heisley Creek)	41 <sup>0</sup> 42'31" N	81 <sup>0</sup> 18'43" W	57.5 QHEI	wwH	320	Bridge work
(Heisley Creek) Stream 16 (Chagrin River)	41 <sup>0</sup> 39'17" N	81 <sup>0</sup> 24'21" W	56 QHEI	WWH	281	Bridge work
		TOTALS.			3547	

# B. Jurisdictional Streams

\* As provided by applicant

### II. General Conditions

- A. All water resources and their buffers which are to be avoided shall be clearly indicated on site drawings and demarcated in the field with suitable materials, prior to site disturbance. These materials shall remain in place and be maintained throughout the construction process. The water resources also shall be protected with suitable materials, including silt fencing if appropriate, prior to site disturbance. These materials shall remain in place and be maintained throughout the construction process.
- B. Best Management Practices (BMPs) must be employed throughout the course of this project to avoid the creation of unnecessary turbidity which may degrade water quality or adversely affect aquatic life outside of the project area.
- C. Work shall only take place during low water conditions in order to minimize adverse impacts to water quality away from the project site.
- D. Temporary fill shall consist of suitable non-erodible material or shall be stabilized to prevent erosion.
- E. Materials used in this project for fill or bank protection shall consist of suitable material free from toxic contaminants in other than trace quantities. Broken asphalt is specifically excluded from use as bank protection.
- F. BMPs shall be taken during construction to minimize erosion.
- G. BMPs shall be taken upon completion of this project, to ensure bank stability. This may include, but is not limited to, bank seeding.
- H. Procedures shall be developed and implemented to eliminate the possibility of spills and to control dust that may enter the waterway by runoff or point discharge.
- I. Unpermitted impacts to surface water resources and/or their buffers occurring as a result of this project will be reported within 24 hours of occurrence to Ohio EPA for further evaluation.
- J. In temporary impact areas where trees have been removed to facilitate construction, they shall be replaced with appropriate native tree species.
- L. Permittee shall be in compliance with the NPDES General Construction Permit for all phases of this project.

M. Other permits may be required by Ohio EPA. For information concerning application procedures, contact the Ohio EPA District Office at the following address:

Northeast District office 2110 East Aurora Road Twinsburg, Ohio 44087

- N. Representatives from the Ohio EPA, Division of Surface Water will be allowed to inspect the authorized activity at any time deemed necessary to insure that it is being or has been accomplished in accordance with the terms and conditions of this water quality certification.
- O. In order to protect the Indiana bat from impacts from this development, the applicant shall not cut bat habitat trees between April 15<sup>th</sup> and September 15<sup>th</sup>.
- P. The bottom elevations shall be restored as nearly as possible to preproject conditions.
- Q. Blasting will not be done within or near stream channels without prior consultation with the Ohio Department of Natural Resources, Division of Wildlife, to determine what protective measures should be taken to minimize damage to fish and other aquatic life.
- R. Cadmium chromium arsenate (CCA) and creosote treated lumber shall not be used in structures in contact with waters of the state.
- S. This project may affect the drinking water wells for the adjoining City/Village. Precautions must be taken to limit any affect on the water supply. Officials at the City/Village should be notified before beginning the project and activities shall be coordinated with them.
- T. If pesticide application(s) are proposed for the control of invasive plant species, a site specific application permit must be obtained by calling 614-644-2001 and speaking with the Toxicology Specialist.

#### III. MITIGATION

### A. Description of Required Wetland Mitigation

The Permittee shall compensate for the 3.53 acres of impacts to jurisdictional wetlands by purchasing a minimum of 5.4 mitigation credits from the Trumbull Creek Wetlands Mitigation Bank, located on SR 166 along the Ashtabula-Geauga County line.

# B. Timing of Required Wetland Mitigation

The Permittee shall provide Ohio EPA with an updated balance sheet showing it has purchased 5.4 mitigation credits from the Trumbull Creek Wetlands Mitigation Bank within six months from the date of issuance of this certificate.

# C. Compensatory Stream Mitigation

The Permittee shall compensate for the estimated 3,547 linear feet of impacts to the designated streams in the project area by preserving 5,321 linear feet (3,547 If X 1.5) of streams at Groves Woods, a Cleveland Museum of Natural History site in Trumbull, County, Ohio. The mitigation streams consists of Class II and Class III Primary Headwater Habitat (PHWH) streams.

# B. Timing of Required Stream Mitigation

The Permittee shall obtain a minimum of 5,321 linear feet of streams that are protected with a conservation easement, in perpetuity. The Permittee shall further provide Ohio EPA with a copy of the conservation easement for the Groves Woods site within one year from the date of issuance of this certificate.

#### IV. Notifications To Ohio EPA

All notifications, correspondence, and reports regarding this certification shall reference the following information:

Permittee:	Ohio Department of Transportation (ODOT)	
Project:	Enhancement of SR 2	
1.0,000	LAK-2-3.32, PID 13486	

Ohio EPA ID#: 083387

and shall be sent to: Ohio EPA, Lazarus Go

Ohio EPA, Division of Surface Water, 401 Unit Lazarus Government Center 55 West Town Street, Suite 700 Columbus, Ohio 43216

You are hereby notified that this action of the Director is final and may be Appealed to the Environmental Review Appeals Commission pursuant to Section 3745.04 of the Ohio Revised Code. The appeal must be in writing and set forth the action complained of and the grounds upon which the appeal is based. The appeal must be filed with the Commission within thirty (30) days after notice of the Director's action. The appeal must be accompanied by a filing fee of \$70.00 which the Commission, in its discretion, may reduce if by affidavit you demonstrate that payment of the full amount of the fee would cause extreme hardship. Notice of the filing of the appeal shall be filed with the Director within three (3) days of filing with the Commission. Ohio EPA requests that a copy of the appeal be served upon the Ohio Attorney General's Office, Environmental Enforcement Section. An appeal may be filed with the Environmental Review Appeals Commission at the following address: Environmental Review Appeals Commission at the following address: Environmental Review Appeals Commission.

Sincerely,

Chris Korleski Director

 Deborah L Wegmann, Team Leader, U.S. Army Corps of Engineers, Huntington District, Ohio Regulatory Transportation Office
 Wayne Gorski, U.S. EPA, Region 5,
 William Cody, Asst. Administrator, OES/ODOT
 Mike Pettegrew, Supervisor, Waterway Permits Unit, OES/ODOT
 Don Rostofer, Supervisor, Ecological Unit, OES/ODOT
 Karen L. Hallberg, USF&W (Reynoldsburg Office)
 Brian Mitch, ODNR
 Ed Wilk, NEDO/Ohio EPA
 Joe Loucek, NEDO/Ohio EPA

# **SPECIAL PROVISIONS**

OHIO EPA ISOLATED WETLAND PERMIT – WATERWAY PERMITS

CRS: LAK-2-3.32 PID: 13486

 OHIO EPA ISOLATED WETLAND PERMIT (PERMIT No. 083337; EFFECTIVE 3/12/2008, EXPIRES ON 3/12/2010)



State of Ohio Environmental Protection Agency

STREET ADDRESS:

Lazarus Government Center 50 W. Town St., Suite 700 Columbus, Ohio 43215 TELE: (614) 644-3020 FAX: (614) 644-3184 www.epa.state.oh.us MAILING ADDRESS:

P.O. Box 1049 Columbus, OH 43216-1049

March 12, 2008

Timothy M. Hill, Administrator Ohio Department of Transportation Office of Environmental Services PO Box 899 Columbus, Ohio 43216-0899

Re: Pre-Activity Notification: General Isolated Wetland Permit (Level 1)
 Ohio EPA SWIMS ID#: 083337
 Project: Construction of a fourth lane between SR 91 and Vine Street and a third lane between Heisley Road and SR 44; miscellaneous work
 Project ID #: LAK-2-3.32, PID 13486

Dear Mr. Hill:

On April 10, 2007, the Director of the Ohio EPA, pursuant to Ohio Revised Code (ORC) Section 6111.021 issued the Ohio General Permit for filling Category 1 and Category 2 Isolated Wetlands. The Ohio Department of Transportation (ODOT) has submitted a complete and acceptable General Isolated Wetland Permit Application (Level 1) and, after our review, hereby has been granted a General Isolated Wetland Permit, effective March 12, 2008, relative to the above referenced project. This permit only authorizes the designated impacts (0.02 acres) to Isolated Wetlands W-3 and W-13 described in the application.

We received the permit application in our office on March 7, 2008. The project consists of the construction of a fourth lane between SR 91 and Vine Street, and third lane between Heisley Road and SR 44, in Lake County, Ohio. In addition, construction work will include full shoulders and concrete median barrier, and modification of seven freeway interchanges. The project is estimated to impact 0.02 acres of isolated wetlands.

Please note ODOT is required to abide by all of the provisions of the General Permit, specifically the permit conditions listed in Part III and the mitigation requirements listed in Part IV. Per ORC Section 6111.022 (E) and Part V of the General Permit, the proposed filling of the isolated wetlands must be completed within two years of the date of this permit. If ODOT does not complete the filling within this two year period, it must submit a new pre-activity notice (PAN) to Ohio EPA. According to the application, ODOT shall provide compensatory mitigation for the 0.02 acres of impacts to Wetlands W-3 and W-13 by deducting 0.03 acres of wetland mitigation credits from the Trumbull

Ted Strickland, Governor Lee Fisher, Lieutenant Governor Chris Korleski, Director Timothy M. Hill, Administrator Ohio Department of Transportation Office of Environmental Services General Isolated Wetland Permit (Level One) LAK-2-3.31, PID 13486 Page 2 of 2

Creek Wetlands Mitigation Bank located on State Route 166 along the Ashtabula-Geauga County line. ODOT shall provide Ohio EPA with a balance sheet or equivalent documentation showing it has withdrawn the specified number of credits.

Please note in accordance with Part IV (F) of the General Permit, when mitigation will occur at an approved wetland mitigation bank, mitigation credits must be acquired within 15 days after receipt of the written notice of approval authorizing impacts to isolated wetlands.

We thank you for submitting the isolated wetland permit application for our review. If you have any questions or issues you would like to discuss regarding this determination or the project, please contact me at (614) 644-2138.

Sincerely,

arthur L. Coleran , Ja

Arthur L. Coleman, Jr, Ohio EPA, DSW Environmental Mitigation and Special Permitting Section

 cc: Deborah Wegmann, USACE, Huntington District Wayne Gorski, US EPA/Region V
 William Cody, Asst. Administrator, OES/ODOT
 Mike Pettegrew, Supervisor, Waterway Permit Unit, OES/ODOT
 Donald Rostofer, Supervisor, Ecological Systems Unit, OES/ODOT
 Ed Wilk, NEDO/Ohio EPA
 Megan Seymour, USF&W (Reynoldsburg Office)
 Brian Mitch, ODNR

# **SPECIAL PROVISIONS**

# COMBINED 404/401 WATERWAY PERMIT APPLICATION – WATERWAY PERMITS

CRS: LAK-2-3.32 PID: 13486

 COMBINED 404/401 WATERWAY PERMIT APPLICATION (SUBMITTED TO THE US ARMY CORPS OF ENGINEERS AND OHIO EPA ON MARCH 5, 2008)

#### Section 404 Application for Department of the Army Permit and Section 401 Application for the Ohio Environmental Protection Agency Water Quality Certification

#### LAK-2-3.32 (PID 13486) Reconstruction Project in the Municipalities of Eastlake, Willoughby, and Mentor Lake County, Ohio

By

#### **Richard M. Paul, Ecologist/Environmental Specialist**

Submitted By: Andrew Campbell Project Manager ASC Group, Inc. 4620 Indianola Avenue Columbus, Ohio 43214 614.268.2514

Submitted to: Scott Graham, P.E. ARCADIS U.S., Inc. 1100 Superior Avenue Suite 1250 Cleveland, Ohio 44114 216.781 6177

Lead Agency: Ohio Department of Transportation

March 3, 2008

#### **Table of Contents**

404 Permit Application

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#### **401** Permit Application

Exhibit 1 - 401 Application: Block 5. Locations of Impacted Features for Minimal Degradation Alternative

Exhibit 2 - 401 Application: Block 8a, 8c, and Block 9. Description of Activity Exhibit 3 - 401 Application: Block 10. Water Quality Certification Anti-degradation Evaluation

#### Tables

Appendix A: General Maps and Design Drawings

Figure 1. Project Vicinity Map.

Figure 2. Project Location.

Figure 3. Soil Survey Map.

Figure 4. Minimum Degradation Alternative.

Figure 5. Preferred Alternative.

Figure 6. Plan Views of Stream and Wetland Crossings.

Appendix B: Photographs and Key to Photograph Locations

Appendix C: Minimal Degradation Costs

Appendix D: Agency Correspondence

Appendix E: Conceptual Mitigation Plan

**404 Permit Application** 

#### APPLICATION FOR DEPARTMENT OF THE ARMY PERMIT (33 CFR 325)

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	[33 LFK 325]						
sources, gathering and maintaining th aspect of this collection of information Operations and Reports, 1215 leffers	ne data needed, and completing and re- n, including suggestions for reducing ton Davis Highway, Suite 1204, Arlin 3. Please DO NOT RETURN your fo	eviewing the co this burden, to gton, VA 2220	Ilection of information. Sen Department of Defense, Was )2-4302; and to the Office of	time for reviewing instructions, searching existing data d comments regarding this burden estimate or any other shington Headquarters Service Directorate of Information f Management and Budget, Paperwork Reduction Project d applications must be submitted to the District Engineer			
	PF	RIVACY ACT	STATEMENT				
discharge or fill material into water Information provided on this form w provided, however, the permit applic and character of the proposed activity	s of the United States, and the tran ill be used in evaluating the application ration cannot be processed nor can a t	sportation of c on for a permit. permit be issue (see sample dra	redged material for the pur Disclosure: Disclosure of d. One set of original drawir wings and instructions) and	n, or affecting, navigable waters of the United States, the pose of dumping it into ocean waters. Routine Uses: requested information is voluntary. If information is not ngs or good reproducible copies which show the location be submitted to the District Engineer having jurisdiction			
	(ITEMS 1 THRU	J 4 TO BE	FILLED BY THE CON	RPS)			
1. APPLICATION NO.	2. FIELD OFFICE CODE	3. [	DATE RECEIVED	4. DATE APPLICATION COMPLETED			
	(ITEMS BELO	W TO BE P	ILLED BY APPLICA	V <i>T</i> )			
•							
5. APPLICANT'S NAME James Beasley, Director, P.I	E., P.S.	8. AU		ME AND TITLE (an agent is not required) pervisor, Waterway Permits Unit			
6. APPLICANT'S ADDRESS Ohio Department of Transport 1980 West Broad Street Columbus, Ohio 43223	ation	Ohio 1980	9. AGENT'S ADDRESS Ohio Department of Transportation, Office of Environmental Services 1980 West Broad Street, 3 <sup>rd</sup> Floor Columbus, Ohio 43223				
7. APPLICANT'S PHONE Nos. w a. Residence n/a b. Business 614-466-7102	AREA CODE	10. A(	10. AGENT'S PHONE Nos. w/AREA CODE a. Residence n/a b. Business 614-466-7102				
11.	STATEMENT	OF AUTH	ORIZATION				
and to furnish, upon request, su	Pettegrew pplemental information in suppor September - 2 - 4 IT'S SIGNATURE	t of this perm		as my agent in the processing of this application			
	NAME, LOCATION, AND	DESCRIP	TION OR PROJECT	OR ACTIVITY			
12. PROJECT NAME OR TITLE LAK-2-3.32 Road Impr				-			
13. NAME OF WATERBODY, IF See Exhibit 1.	KNOWN (if applicable)		14. PROJECT STR N/	EET ADDRESS (it applicable)			
15. LOCATION OF PROJECT							
Lake	Ohio						
COUNTY	STATE						
16. OTHER LOCATION DESCRI Along State Route 2 near the	PTIONS, IF KNOWN (see instruction municipalities of Eastlake, Willo	ns) Section, Tow bughby, and	rnship, Range, Lat/Lon, and/or Mentor in Lake County.	Accessors's Parcel Number, for example.			
17. DIRECTIONS TO THE SITE From Cleveland take I-90 eas intersection and extends east	t. Exit at Exit 189 (State Route to the State Route 44 junction	e 91) and go 	north. The project beg	pins at the State Route 2/ State Route 91			

#### 18. Nature of Activity (Description of project, include all features)

The proposed project includes the addition of a third lane from State Route 640 to State Route 44, the reconfiguration of seven Interchanges, concrete slab structures need to be patched and waterproofed, existing pipe culverts and box culverts need to be replaced, widening of existing I beam and three-span steel beam bridge, and the construction of a new 37 foot wide three-span steel beam bridge are all required. Fourteen streams and six wetlands will be affected by the proposed project. The streams and wetlands were identified through the preparation of the Ecological Survey Report including QHEI and HHEI data forms for the streams and ORAM forms for wetlands. Reference Table A, summary of streams impacted and Table B, summary of wetlands impacted for more detailed information.

#### 19. Project Purpose (Describe the reason or purpose of the project, see instructions)

The primary purposes for improvements to the LAK-2-3.32 corridor are to enhance safety and reduce congestion on State Route 2 in Lake County for both local and through traffic. This limited-access freeway facility displays functional and operational issues based on current traffic operation, safety considerations, and physical roadway deficiencies. Traffic congestion and outdated design features contribute to a high accident rate and safety concerns on the State Route 2 freeway mainline and interchanges. Maintenance activities for the roadway surface, highway lighting, and drainage facilities are becoming more extensive, frequent, and expensive for the responsible agencies.

# USE BLOCKS 20-22 IF DREDGED AND/OR FILL MATERIAL IS TO BE DISCHARGED

#### 20. Reason(s) for Discharge

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Placement of fill in streams and wetlands is necessary to allow for proper roadway geometry and to be in compliance with ODOT specifications. Existing concrete slab structures need to be patched and waterproofed, existing pipe culverts and box culverts need to be replaced, widening of existing I beam and three-span steel beam bridge, and the construction of a new 37 foot wide three-span steel beam bridge are all required. Temporary discharge is necessary to create a temporary work area for replacement of the existing piers and abutments. Temporary fill will be removed upon completion of the project. Permanent fill will be necessary for construction of the abutments and approach slabs. The discharge associated with the placement of rock channel protection is needed to prevent erosion under the structure.

21. Type(s) of Material Being Discharged and the Amount of Each Type in Cubic Yards The types of material being discharged are specified by the ODOT Construction and Material Specifications 203. This includes natural soil, natural granular material, granular material types, shale, and rock., The total amount being discharged is 37,264 cubic vards.

Wetland Fill Material Quantity - 32,295 cubic yards (See Table C for Stream and Wetland Impacts) Stream Fill Material Quantity - 4,729 cubic yards (See Table C for Stream and Wetland Impacts)

22. Surface Area in Acres of Wetlands or Other Waters Filled (see instructions) Overall, a total of 14 streams will be impacted resulting in 3,547 linear feet, or 2.366 acres, of impact. A total of six wetlands will be impacted resulting in 3.53 acres of impact (See Table C for Stream and Wetland Impacts)

23. Is Any Portion of the Work Already Complete? Yes \_\_\_\_ No X\_\_\_ IF YES, DESCRIBE THE COMPLETED WORK N/A

Addresses of Adjoining Property Owners, Lessees, Etc., Whose Property Adjoins the Waterbody (If more than can be entered here, please 24. attach a supplemental list}

See Exhibit 2.

		Is Received from other Fede DENTIFICATION NUMBER	ral, State, or Local Age DATE APPLIED	ncies for Work Describ DATE APPROVED	ed in This Application. DATE DENIED
AGENCY	,			1/12/07	n/a
USACE	Jurisdictional Determination	n n/a	n/a		
Ohio EPA	Isolated Wetland Permit	n/a	March 2008	n/a	n/a
USEWS	Ecological Coordination	n/a	January 2005	n/a	n/a
City of Willoughby	Floodplain Permit	- n/a	n/a	n/a	n/a
City of Mentor	Floodplain Permit	n/a	January 2006	n/a	n/a
Ohio EPA	Section 401 WQC	n/a	March 2008	n/a	n/a

'Would include but is not restricted to zoning, building, and flood plain permits

26. Application is hereby made for a permit or permits to authorize the work described in this application. I certify that the information in this application is complete and accurate. I further certify that I possess the authority to undertake the work described herein or am acting as the duly authorized agent of the applicant.

SIGNATURE OF APPLICANT DATE

The application must be signed by the person who desires to undertake the proposed activity (applicant) or it may be signed by a duly authorized agent if the statement in block 11 has been filled out and signed.

18 U.S.C. Section 1001 provides that: Whoever, in any manner within the jurisdiction of any department or agency of the United States knowingly and willfully falsifies, conceals, or covers up any trick, scheme, or disguises a material fact or makes any false, fictitious or fraudulent statements or representations or makes or uses any false writing or document knowing same to contain any false, fictitious or fraudulent statements or entry, shall be fined not more than \$10,000 or imprisoned not more than five years or both.

Exhibit 1 - 404 Application: Block 13. Summary of Streams and Wetlands Impacted

Site / Feature	USGS 7.5" Quadrangle	USGS Coordinates
Stream 1; UT <sup>1</sup> to Mentor Marsh	Mentor	41°43'13"N
		81°17'23''W
Stream 2; UT <sup>1</sup> to UT <sup>1</sup> to Chagrin River	Eastlake	41°38'38"N
		81°25'34"W
Stream 3; UT <sup>1</sup> to Stream 1 to Mentor Marsh	Mentor	41°43'03"N
		81°17'53"W
Stream 4; UT <sup>1</sup> to Wasson Ditch	Mentor	41°43'03"N
		81°18'03"W
Stream 5; UT' to Heisley Creek	Mentor	41°42'17"N
		81°18'54"W
Stream 6; Marsh Creek	Mentor	41°41'34"N
		81°19'38"W
Stream 8; UT' to Stream 9	Mentor	41°40'34"N
		81°21'51"W
Stream 9; UT <sup>1</sup> to UT <sup>1</sup> to Chagrin River	Mentor	41°40'50"N
		81°21'30''W
Stream 10; Newell Creek	Mentor	41°40'17"N
		81°22'12''W
Stream 12; UT <sup>1</sup> to Chagrin River	Eastlake	41°39'43"N
		81°22'53"W
Stream 13; UT <sup>1</sup> to Chagrin River	Eastlake	41°38'56"N
		81°25'00"W
Stream 14; Wasson Ditch	Mentor	41°43'03"N
		81°18'03"N
Stream 15; Heisley Creek	Mentor	41°42'31"N
		81°18'43"W
Stream 16; Chagrin River	Eastlake	41°39'17"N
		81°24'21''W
Wetland 4/5 <sup>2</sup>	Eastlake	41°39'48"N
	Lasuake	81°22'52''W
Wetland 7 Wetland 11	Eastlake Mentor	41°39'15"N
		81°24'28"W
		41°41'10"N 81°20'16"W
Wetland 12	Eastlake	41°39'10"N
		81°24'33"W
Wetland 21	Mentor	41°41'34"N
		81°19'37"W
Wetland 30	Eastlake	41°38'12"N
		81°26'16''W

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# Block 13. Summary of Streams and Wetlands Impacted

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Exhibit 2 - 404 Application: Block 24. Addresses of Adjoining Property Owners

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Yousef and Loubaba Karim 3901 Harvard Dr. Willoughby, OH

Wm. W. and Patricia Ann Burkey 3893 Harvard Dr. Willoughby, OH

Constance A. Rawlry 3883 Harvard Dr. Willoughby, OH

Paul and Denise Winegar 3875 Harvard Dr. Willoughby, OH

Sonia & Brothers, Inc. 35000 Curtis Blvd. Eastlake, OH

Cornerstone Church 7510 Reynolds Rd. Mentor, OH

Edward and Teresa Sherry 7707 Kittery Ln. Mentor, OH

John and Renee Dickson 7717 Kittery Ln. Mentor, OH

DWK Properties, ILC 7275 Industrial Pk. Mentor, OH

Freeway Lanes Holdings, LLC 7300 Palisades Pkwy. Mentor, OH

Hugh Carroll 7184 Bunker Cove Mentor, OH Robert and Evelyn Orlando 7727 Kittery Ln. Mentor, OH

Vivianni Family Limited Partnership 7255 Industrial Pk. Mentor, OH

Richard Parker 3460 Lost Nation Rd. Mentor, OH

Jason Grimm and Leslie Wuest 7860 Champaign Dr. Mentor, OH

Douglas and Barbara Denton 7866 Champaign Dr. Mentor, OH

Shelly and Barbara Detrick 7600 Tyler Blvd. Mentor, OH

Jeff and Nancy Sloat 7620 Tyler Blvd. Mentor, OH

Jim Brown Chevrolet, Inc. 6877 Center St. Mentor, OH

Marie and Phillip Plestis 8477 Tyler Blvd. Mentor, OH

Thomas Wheeler 8507 Tyler Blvd. Mentor, OH

Zoltan and Stacy Dudevszsky 8567 Tyler Blvd. Mentor, OH Hendricks Commercial Properties, LLC 8745 Munson Rd. Mentor, OH

Brijovia Properties, LLC 6520 Hopkins Rd. Mentor, OH

United Way of Lake County, Inc. 9285 Progress Pkwy. Mentor, OH

Donald and Sandra Berlin 9372 Trillium Ln. Mentor, OH

Jamie and Kim Tavano 9382 Trillium Ln. Mentor, OH

Charles and Linda Croaker 9392 Trillium Ln. Mentor, OH

Bruce and Kristine Harper 9362 Trillium Ln. Mentor, OH

David and Lisa Huffman 5876 Primavera Dr. Mentor, OH

Kevin Shoda and Dawn Murphy 5684 Primavera Dr. Mentor, OH

BP Exploration and Oil Inc. 5711 Heisley Rd. Mentor, OH

Ventas Realty 5700 Emerald St. Mentor, OH **401 Permit Application** 

# APPLICATION FOR OHIO EPA SECTION 401 WATER QUALITY CERTIFICATION

## Effective October 1, 1996 Revised August 1998

This application must be completed whenever a proposed activity requires an individual Clean Water Act Section 401 Water Quality Certification (Section 401 certification) from Ohio EPA. A Section 401 certification from the State is required to obtain a federal Clean Water Act Section 404 permit from the U.S. Army Corps Engineers, or any other federal permits or licenses for projects that will result in a discharge of dredged or fill material to any waters of the State. To determine whether you need to submit this application to Ohio EPA, contact the U.S. Army Corps of Engineers District Office with jurisdiction over your project, or other federal agencies reviewing your application for a federal permit to discharge dredged or fill material to waters of the State, or an Ohio EPA Section 401 Coordinator at (614) 644-2001.

The Ohio EPA Section 401 Water Quality Certification Program is authorized by Section 401 of the Clean Water Act (33 U.S.C. 1251) and the Ohio Revised Code Section 6111.03(P). Ohio Administrative Code (OAC) Chapter 3745-32 outlines the application process and criteria for decision by the Director of Ohio EPA. In order for Ohio EPA to issue a Section 401 certification, the project must comply with Ohio's Water Quality Standards (OAC 3745-1) and not potentially result in an adverse long-term or short-term impact on water quality. Included in the Water Quality Standards is the Antidegradation Rule (OAC Rule 3745-1-05), effective October 1, 1996, revised October 1997 and May 1998. The Rule includes additional application requirements and public participation procedures. Because there is a lowering of water quality associated with every project being reviewed for Section 401 certification applicant must provide the information required in Part 10 (pages 3 and 4) of this application. In addition, applications for projects that will result in discharges of dredged or fill material to wetlands must include a wetland delineation report approved by the Corps of Engineers, a wetland assessment with a proposed assignment of wetland category (ies), official documentation on evaluation of the wetland for threatened or endangered species, and appropriate avoidance, minimization, and mitigation as prescribed in OAC 3745-1-50 to 3745-1-54. Ohio EPA will evaluate the applicant's proposed wetland stategory assignment and make the final assignment.

Information provided with the application will be used to evaluate the project for certification and is a matter of public record. If the Director determines that the application lacks information necessary to determine whether the applicant has demonstrated the criteria set forth in OAC Rule 3745-32-05(A) and OAC Chapter 3745-1, Ohio EPA will inform the applicant in writing of the additional information that must be submitted. The application will not be accepted until the application is considered complete by the Section 401 Coordinator. An Ohio EPA Section 401 Coordinator will inform you in writing when your application is determined to be complete.

Please submit the following to "Section 401 Supervisor, Ohio EPA/DSW, P.O. Box 1049, Columbus, Ohio 43216-1049:

- Four (4) sets of the completed application form, including the location of the project (preferably on a USGS quadrangle) and 8-1/2 x 11"scaled plan drawings and sections.
- One (1) set of original scaled plan drawings and cross-sections (or good reproducible copies).

### (See Application Primer for detailed instructions)

1. The federal permitting agency has determined this project: (check appropriate box and fill in blanks)

a. X requires an individual 404 permit/401 certification- Public Notice # (if known)

b.\_\_\_\_ requires a Section 401 certification to be authorized by Nationwide Permit #\_\_\_\_\_

c.\_\_\_\_ requires a modified 404 permit/401 certification for original Public Notice #\_\_\_\_\_

d. \_\_\_\_\_ requires a federal permit under \_\_\_\_\_\_ jurisdiction identified by # \_\_\_\_\_\_

e.\_\_\_\_ requires a modified federal permit under \_\_\_\_\_ jurisdiction identified by # \_\_\_\_\_

`. Application number (to be assigned by Ohio EPA):			
3. Name and address of applicant:	Telenhone number	during business hours:	
Mr. James Beasley, Director, P.E., P.S.	( <u>614</u> ) <u>466-7102</u>		ffice)
Ohio Department of Transportation	()		
1980 West Broad Street, Columbus, Ohio 43223	( <u>614</u> ) <u>728-7368</u>	(I	Fax)
3a. Signature of Applicant: James. 3 Bearly-	Jus- D	ate: 3/5/08	
4. Name, address and title of authorized agent:	- Telephone number	during business hours:	
Mr. Michael Pettegrew, Supervisor, Waterway Permits Unit		-	
Ohio Department of Transportation	( <u>614</u> ) <u>466-7102</u>		Office)
1980 West Broad Street, Columbus, Ohio 43223	( <u>614</u> ) <u>728-7368</u>		(Fax)
4a. Statement of Authorization: I hereby designate and authorize t permit application, and to furnish, upon request, supplemental info	he above-named agent to prmation in support of the	act in my behalf in the application.	processing of this
Signature of Applicant 5. Location on land where activity exists or is proposed. Indicate of		ate: 3/5/09	
5 Location on land where activity exists or is proposed. Indicate of	coordinates of a fixed refe	rence point at the impa	act site (if known)
and the coordinate system and datum used.		· · ·	
The proposed LAK-2-3.32 project begins at existing SR 91 in Lak east to the SR 44 south junction in Lake County, just west of Paine Chagrin River drainage basin will be impacted by this proposed pr	esville. A total of 14 stre	nd) and extends appro ams and six wetlands o	ximately 10 miles occurring in the
See Exhibit 1 for USGS Coordinates and other location informatic	on for impacted streams a	nd wetlands.	
Chagrin River Watershed Lake County, Ohio			
Watershed County Township	City	State	Zip Code
6. Is any portion of the activity for which authorization is sought c If answer is "yes," give reasons, month and year activity was comp	pleted. Indicate the existin	ng work on the drawing	
7. List all approvals or certifications and denials received from oth construction, discharge or other activities described in this application.	her federal, interstate, stat tion.	e or local agencies for	any structures,
Issuing Agency Type of Approval Identification No.	Date of Application	Date of Approval	Date of Denial
USACE Jurisdictional Determination n/a	n/a	January 12 2007	n/a
Ohio EPA Isolated Wetland Permit n/a	March 2008	n/a	n/a
USFWS Ecological Coordination n/a	January 2005	n/a	n/a
City of Willoughby Floodplain Permit n/a	n/a	n/a	n/a
City of Mentor Floodplain Permit n/a	January 2006	n/a	n/a n/a
Department of the Army 404 Permit n/a	March 2008	n/a	n/a
8. DESCRIPTION OF THE ACTIVITY (fill in info	rmation in the follov	ving four blocks -	8a, 8b, 8c & 9)
8a. Activity: Describe the Overall Activity: SR 2 is a six-lane divided his Street. East of Vine Street, SR 2 consists of a four-lane divided his will consist of the construction of a fourth lane between SR 91 and shoulders and a concrete median barrier will be provided. In additional even freeway interchanges in order to reduce congestion and crass	ided highway with three l ighway with two lanes in d Vine Street and a third l tion, the proposed improv	anes in both directions each direction. The pr ane between Heisley F rements will include th	to the west of Vine oposed improvement coad and SR 44. Full

Affected Streams and Wetlands: The proposed project affects 14 streams and six wetlands in the Chagrin River watershed. See Exhibit 2 for descriptions of proposed actions to these features.

b. **Purpose**: Describe the purpose, need and intended use of the activity: The primary purposes for improvements to the LAK-2-3.32 corridor are to enhance safety and reduce congestion on SR 2 in Lake County for both local and through traffic. Three primary needs were identified for the project: Roadway capacity is insufficient to accommodate the existing and future traffic demands; Safety characteristics need to be improved; and Physical deficiencies exist in the corridor.

See Exhibit 2, Block 8b summarizing additional information regarding project.

8c. Discharge of dredged or fill material: Describe type, quantity of dredged material (in cubic yards), and quantity of fill material (in cubic yards). (OAC 3745-1-05(B)(2)(a))

Streams:	Excavation:	5,640 yds <sup>2</sup> (total project)
-	Fill:	4,969 yds <sup>3</sup> (total project)

The types of material being discharged are specified by the ODOT Construction and Material Specifications 203. This includes natural soil, natural granular material, granular material types, shale, and rock.

Wetlands:

Fill

Excavation: 2,532 yds<sup>3</sup> (total project)

32,295 yds3 (total project)

See Table C for summary of discharge quantities by feature.

9. Waterbody and location of waterbody or upland where activity exists or is proposed, or location in relation to a stream, lake, wetland, wellhead or water intake (if known). Indicate the distance to, and the name of any receiving stream, if appropriate.

The proposed project impacts a total of 14 streams and six wetlands.

See Exhibit 2 for additional information.

## 10. To address the requirements of the Antidegradation Rule, your application must include a report evaluating the:

- Preferred Design (your project) and Mitigative Techniques
- Minimal Degradation Alternative(s) (scaled-down version(s) of your project) and Mitigative Techniques
- Non-Degradation Alternative(s) (project resulting in avoidance of all waters of the state)

At a minimum, item a) below must be completed for the Preferred Design, the Minimal Degradation Alternative(s), and the Non-Degradation Alternative(s), followed by completion of item b) for each alternative, and so on, until all items have been discussed for each alternative (see Primer for specific instructions). (Application and review requirements appear at OAC 3745-1-05(B)(2), OAC 3745-1-05(C)(6), OAC 3745-1-05(C)(1) and OAC 3745-1-54).

See Exhibit 3.

- 10a) Provide a detailed description of any construction work, fill or other structures to occur or to be placed in or near the surface water. Identify all substances to be discharged, including the cubic yardage of dredged or fill material to be discharged to the surface water. (OAC 3745-1-05(B)(2)(b))
- 10b) Describe the magnitude of the proposed lowering of water quality. Include the anticipated impact of the proposed lowering of water quality on aquatic life and wildlife, including threatened and endangered species (include written comments from Ohio Department of Natural Resources and U.S. Fish and Wildlife Service), important commercial or recreational sport fish species, other individual species, and the overall aquatic community structure and function. Include a Corps of Engineers approved wetland delineation. (OAC 3745-1-05(C)(6)(a, b) and OAC 3745-1-54)

0c) Include a discussion of the technical feasibility, cost effectiveness, and availability. In addition, the reliability of each alternative shall be addressed (including potential recurring operational and maintenance difficulties that could lead to increased surface water degradation.) (OAC 3745-1-05(C)(6)(h, j-k) and OAC 3745-1-54)

10d) For regional sewage collection and treatment facilities, include a discussion of the technical feasibility, cost effectiveness and availability, and long-range plans outlined in state or local water quality management planning documents and applicable facility planning documents. (OAC 3745-1-05(C)(6)(i))

10e) To the extent that information is available, list and describe any government and/or privately sponsored conservation projects that exist or may have been formed to specifically target improvement of water quality or enhancement of recreational opportunities on the affected water resource. (OAC 3745-1-05(B)(2)(g))

10f) Provide an outline of the costs of water pollution controls associated with the proposed activity. This may include the cost of best management practices to be used during construction and operation of the project. (OAC 3745-01-05(C)(6)(g))

10g) Describe any impacts on human health and the overall quality and value of the water resource. (OAC 3745-1-05(C)(6)(c) and OAC 3745-1-54)

10h) Describe and provide an estimate of the important social and economic benefits to be realized through this project. Include the number and types of jobs created and tax revenues generated and a brief discussion on the condition of the local economy. (OAC 3745-1-5(B)(2)(e), and OAC 3745-1-05(C)(6)(i))

10i) Describe and provide an estimate of the important social and economic benefits that may be lost as a result of this project. Include the effect on commercial and recreational use of the water resource, including effects of lower water quality on recreation, tourism, aesthetics, or other use and enjoyment by humans. (OAC 3745-1-05(B)(2)(e,f), and OAC 3745-1-05(C)(6)(e))

10j) Describe environmental benefits, including water quality, lost and gained as a result of this project. Include the effects on the aquatic life, wildlife, threatened or endangered species. (OAC 3745-1-05 (B)(2)(e,f), OAC 3745-1-05 (C)(6)(b) and OAC 3745-1-54)

10k) Describe mitigation techniques proposed (except for the Non-Degradation Alternative):

<sup>o</sup> Describe proposed Wetland Mitigation (see OAC 3745-1-54 and Primer)

° Describe proposed Stream, Lake, Pond Mitigation (see Primer)

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11. Application is hereby made for a Section 401 Water Quality Certification. I certify that I am familiar with the information contained in this application and, to the best of my knowledge and belief, such information is true, complete and accurate. I further certify that I possess the authority to undertake the proposed activities or I am acting as the duly authorized agent of the applicant.

315/05 <u>) earl</u> Date Signature of Applicant

Signature of Agent

The application must be signed by the person who desires to undertake the proposed activity (applicant) or it may be signed by a duly authorized agent if the statement in Block 3 has been filled out and signed.

Exhibit 1 - 401 Application: Block 5. Locations of Impacted Features for Minimal Degradation Alternative

Site / Feature	USGS 7.5" Quadrangle	USGS Coordinates
Stream 1; UT <sup>1</sup> to Mentor Marsh	Mentor	41°43'13"N
Stream 1; 01° to Mentor Marsh	WIEILUI	81°17'23"W
Stream 2; UT <sup>1</sup> to UT <sup>1</sup> to Chagrin River	Eastlake	41°38'38"N
Sueam 2; 01° to 01° to Chagini River	Eastiake	81°25'34"W
Stream 3; UT' to Stream 1 to Mentor Marsh	Mentor	41°43'03"N
Steam 5, 01 to Steam 1 to Wentor Warsh	Wientoi	81°17'53"W
Chargen A. LETI to Wassen Dit-1	Mantan	41°43'03"N
Stream 4; UT' to Wasson Ditch	Mentor	81°18'03"W
	Mantan	41°42'17"N
Stream 5; UT <sup>1</sup> to Heisley Creek	Mentor	81°18'54"W
Starra & March Crash	Mantan	41°41'34"N
Stream 6; Marsh Creek	Mentor	81°19'38"W
	Mantan	41°40'34"N
Stream 8; UT <sup>1</sup> to Stream 9	Mentor	81°21'51"W
		41°40'50"N
Stream 9; UT <sup>1</sup> to UT <sup>1</sup> to Chagrin River	Mentor	81°21'30"W
		41°40'17"N
Stream 10; Newell Creek	Mentor	81°22'12''W
		41°39'43"N
Stream 12; UT <sup>1</sup> to Chagrin River	Eastlake	81°22'53"W
		41°38'56"N
Stream 13; UT' to Chagrin River	Eastlake	81°25'00''W
		41°43'03"N
Stream 14; Wasson Ditch	Mentor	81°18'03"N
		41°42'31"N
Stream 15; Heisley Creek	Mentor	81°18'43"W
	T (1 1	41°39'17"N
Stream 16; Chagrin River	Eastlake	81°24'21"W
Wetland 4/5 <sup>2</sup>	Eastlake	41°39'48"N
wenand 4/5	Eastlake	81°22'52"W
Wetland 7	Eastlake	41°39'15"N
		81°24'28"W
Wetland 11	Mentor	41°41'10"N
		81°20'16"W 41°39'10"N
Wetland 12	Eastlake	41°39'10"N 81°24'33"W
		41°41'34"N
Wetland 21	Mentor	81°19'37"W
		41°38'12"N
Wetland 30	Eastlake	81°26'16"W

401 Application: Block 5. Locations of Impacted Features for Minimal Degradation Alternative

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Riparian Corridor and Adjacent Habitats	Residential, Commercial	Residential	Commercial	Residential	Residential, Commercial	Commercial	Commercial, Residential	Commercial, Residential	Commercial	Commercial, Residential	Commercial, Residential	Commercial, Residential
QHEI or HHEI Score/OEPA Use Designation (if available)	56 (HHBI)	64 (HHEI)	45 (HHEI)	50 (HHEI)	64 (HHEI)	64.25 (QHEI); WWH	14 (HHEI)	78 (HHEI)	24 (HHEI)	69 (HHEI)	51 (HHEI)	56 (HHEI)
Drainage Area/Area at Impact Site	0.37 mi²	<0.01 mi <sup>2</sup>	0.01 mi²	<0.01 mi <sup>2</sup>	0.02 mi <sup>2</sup>	1.18 mi <sup>2</sup>	0.06 mi <sup>2</sup>	0.17 mi²	0.78 mi <sup>2</sup>	1.79 mi²	0.004 mi <sup>2</sup>	0.57 mi²
Distance to Receiving Stream	1.27 mi	0.72 mi	0.23 mi	0.24 mi	0.40 mi	1.1 mi	20 ft	0.59 mi	3.42 mi	200 ft	0.21 mi	1.7 mi
Receiving Stream	Mentor Marsh	Unnamed Tributary of Chagrin River	Stream #1	Wasson Ditch	Heisley Creek	Lake Erie	Stream #9	Unnamed Tributary of Chagrin River	Chagrin River	Chagrin River	Chagrin River	Mentor Marsh
Total Length	2.28 mi	0.93 mi	0.63 mi	0.75 mi	0.27 mi	5 mi	0.69 mi	2.05 mi	7.03 mi	1.79 mi	0.31 mi	3.35 mi
Drainage Basin	0.61 mi <sup>2</sup>	0.03 mi <sup>2</sup>	0.01 mi²	0.01 mi <sup>2</sup>	0.01 mi²	17 mi²	0.06 mi <sup>2</sup>	0.23 mi²	1.16 mi <sup>2</sup>	0.03 .mi²	<0.01 mi <sup>2</sup>	0.85 mi²
Description and Length Impacted	Unnamed Stream; 70 linear feet	Unnamed Stream; 40 linear feet	Unnamed Stream; 907 linear feet	Tributary of Wasson Ditch;1,050 linear feet	Tributary of Heisley Creek; 33 linear feet	Marsh Creek; 65 linear feet	Unnamed Stream;70 linear feet	Unnamed Stream; 120 linear feet	Newell Creek; 240 linear feet	Tributary of Chagrin River; 161 linear feet	Tributary of Chagrin River; 85 linear feet	Wasson Ditch; 105 linear feet
USGS Coord.	41°43'13"N 81°17'23"W	41°38°38"N 81°25°34"W	41°43°03"N 81°17'53"W	41°43'03''N 81°18'03''W	41°42'17"N 81°18'54"W	41°41'34'N 81°19'38'W	41°40'34''N 81°21'51''W	41°40'50"N 81°21'30"W	41°40'17"N 81°22'12"W	41°39'43'N 81°22'53'W	41°38'56"N 81°25'00"W	41°43'03"N 81°18'03"N
Stream No.	1	2	3	4	Ś	و	œ	6	10	12	13	14

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Stream No.	USGS Coord.	Description and Length Impacted	Drainage Basin	Total Length	Receiving Stream	Distance to Receiving Stream	Distance to Drainage Receiving Area/Area at Stream Impact Site	QHEI or HHEI Score/OEPA Use Designation (if available)	Riparian Corridor and Adjacent Habitats
15	41°42'31"N 81°18'43"W	Heisley Creek; 320 linear feet	3.8 mi <sup>2</sup>	3.79 mi	Marsh Creek	1.21 mi	0.54 mi <sup>2</sup>	57.5 (QHEI); WWH	Commercial, Residential
16	41°39'17"N 81°24'21"W	Chagrin River; 281 linear feet	264 mi <sup>2</sup>	47.9 mi	Lake Erie	3.1 mi	16.3 mi <sup>2</sup>	56 (QHEI); WWH	Metro Park, Wetlands, Commercial

Table A. 404/401 Application: Streams Affected by the Proposed Project for the Minimal Degradation Alternative.

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Table B. 404/401 Application: Wetlands Affected by the Proposed Project for the Minimal Degradation Alternative.

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Wetland No.	USGS Coordinate	Drainage Basin	Wetland Description	Cowardin et al., ORAM 1979 Classification v5.0 Score	ORAM v5.0 Score	<b>OEPA</b> Category	Total Size (Area Impacted)	Adjacent Habitats	Proximity to Other Surface Waters
4/5	41°39'48"N 81°22'52"W	Chagrin River	Low quality and non-native emergent species; Green Ash- Silver Maple component	Emergent/Forested Wetland	36/29	Modified Category 2/Category 1	0.02 ac	Residential, State Route 2	Adjacent to Stream 12
2	41°39'15"N 81°24'28"W	Chagrin River	Giant Reed and Black Willow Wetland	Emergent/Scrub- Shrub Wetland	27	Category 1	1.92 ac	Chagrin River Metro Park, Chagrin River Riparian Corridor, State Route 2	Within 200 feet of Chagrin River
11	41°41'10"N 81°20'16"W	Marsh Creek	Giant Reed-Cattail Marsh	Emergent Wetland	22	Category 1	0.01 ac	Commercial, State Route 2	Tributary of Marsh Creek flows through Wetland 11
12	41°39'10"N 81°24'33"W	Chagrin River	Giant Reed-Purple Loosestrife Marsh	Emergent Wetland	24	Category 1	1.41 ac	Surrounded by State Route 2 and St. Clair Street	Within 100 feet of Chagrin River
21	41°41'34"N 81°19'37"W	Marsh Creek	Giant Reed Marsh	Emergent Wetland	6	Category 1	0.12	Commercial and State Route 2	Adjacent to Stream 6
30	41°38'12"N 81°26'16"W	Ưmamed Stream	Mixed Emergent Marsh	Emergent Wetland	7	Category 1	0.05	Commercial and State Route 91	Adjacent to roadside ditch that flows into unnamed stream

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			Existing Chann Highway	anel Disturbed av Fill, Chann	Due to Place	ig Channel Disturbed Due to Placement of Proposed Structure, Highway Fill, Channel Change or Channel Protection <sup>11</sup>	l Structure, on <sup>[1]</sup>	Existing	Existing Channel Disturbed Due to Temporary Crossing	oed Due to ing
Stream	Approx. Station	Proposed Structure	Length of	Excavation Below OHW	Below OHW	Fill Below OHW	OHW	I enoth of	Excavation / Fill Below OHW	Il Below OHW
No./Name	(Sta.) Location	or Action	Channel Disturbed (linear feet)	Volume (yd³)	Area (yd²)	Volume (yd³)	Area (yd²)	Channel Disturbed	Volume (yd³)	Area (yd²)
1/Unnamed Stream	Sta. 794+63	Replace existing 58"x91" culvert with a 12'x6' box culvert	70	40	315	15	315	N/A	N/A	N/A
2/Unnamed Stream	Sta. 308+66.09	Reline existing 15' and 10' corrugated metal pipe with 11' and 8' smooth lined pipe	40	N/A	N/A	20	02	N/A	N/A	N/A
3/Umamed Stream	Heisley Road Interchange, Ramp B Sta. 361+50 to Sta. 370+00 and State Route 2 Sta. 776+30 to Sta. 776+90 (south)	Re-grading of Heisley Road ramp unnamed stream	907	1,235	4,275	2,045	4,275	N/A	N/A	N/A
4/Tributary of Wasson Ditch	Sta. 755+00 to Sta. 775+00 (North)	Re-grading of Heisley Road Interchange, Ramp A and Ramp D, and parallel Tributary of Wasson Ditch	1,050	350	1,050	N/A	N/A	N/A	N/A	N/A
5/Tributary of Heisley Creek	Sta. 701+08	Replace existing 48"x76" pipe culvert with 8'x5'	33	N/A	N/A	20	50	N/A	N/A	N/A
6/Marsh Creek	Sta. 646+04	Existing 16'x7' reinforced concrete slab structure to be patched and waterproofed	65	N/A	N/A	55	165	N/A	N/A	N/A

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**Excavation / Fill Below OHW** Area (yd2) **Existing Channel Disturbed Due to** N/A N/A N/A N/A N/A **Temporary Crossing** Volume (yd<sup>3</sup>) N/AN/A N/A N/A N/A Length of Disturbed Channel N/A N/A N/A N/A N/A Existing Channel Disturbed Due to Placement of Proposed Structure, Area (yd2) 265 N/A 100 225 95 Fill Below OHW Highway Fill, Channel Change or Channel Protection <sup>[1]</sup> Volume (yd<sup>3</sup>) 240 150 N/A 20 75 **Excavation Below OHW** Volume (yd<sup>3</sup>) Area (yd<sup>2</sup>) A. STREAMS N/A (linear feet) Length of Disturbed Channel 120 240 161 85 20 **Proposed Structure** Additional impacts at Replace existing twin Replace existing 96" pipe with 77"x121" reinforced concrete elliptical pipe under median drain outlets Replace existing 42" reinforced concrete slab structure to be Widen existing prereinforced concrete reinforced concrete reinforced concrete reinforced concrete simple span bridge Lost Nation Road; 48" pipe culverts Existing 12'x10' stressed I-beam, pipe with 42" with 58"x91" elliptical pipe waterproofed patched and or Action pipe (right); Sta. 451+00 to Sta. 459+00 (left); S.R. 306 Ramp I, Sta. 59+00 to Sta. 68+75; S.R. 2, Sta. 395+00 Approx. Station Lost Nation Road limits); and Lost nation Road, Sta. Ramp B (entire (Sta.) Location to Sta. 451+00 Sta. 524+97.8 Sta. 345+16 Sta. 501+81 Sta. 548+21 50+54 12/Tributary 13/Tributary of Chagrin 8/Unnamed 9/Unnamed 10/Newell of Chagrin No./Name Stream Stream Stream Creek River River

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			Existing Char Highwy	nnel Disturbed av Fill, Chann	Due to Place el Change or (	Existing Channel Disturbed Due to Placement of Proposed Structure, Hiohwav Fill. Channel Change or Channel Protection <sup>[1]</sup>	d Structure, on <sup>[1]</sup>	Existing T	Existing Channel Disturbed Due to Temporary Crossing	bed Due to ing
Stream	Approx. Station	<b>Proposed Structure</b>	Length of	Excavation Below OHW	Below OHW	Fill Below OHW	OHW	I enoth of	Excavation / F	Excavation / Fill Below OHW
No./Name	(Sta.) Location	or Action	Channel Disturbed (linear feet)	Volume (yd <sup>3</sup> )	Area (yd²)	Volume (yd²)	Area (yd²)	Channel Disturbed	Volume (yd³)	Area (yd²)
14/Wasson Ditch	Sta. 738+57	Replace existing 72" reinforced concrete pipe and 15" reinforced concrete pipe with 84" reinforced concrete pipe	105	N/A	N/A	155	200	N/A	N/A	N/A
15/Heisley Creek	Sta. 717+65	Replace existing 3- span reinforced concrete slab bridge with single span steel beam with concrete deck structure	320	N/A	Ν/Α	975	1,830	N/A	N/A	N/A
16/Chagrin River	Sta. 381+16	Widen existing 3- span steel beam with reinforced concrete deck bridge and construct a new 37' (out-to-out) wide 3- span steel beam with reinforced concrete deck bridge for Ramp D; relocate existing sanitary sewer	281	N/A	N/A	515	515	20	444	333

WETLANDS

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(outside construction limits) Impact Area Indirect 0 ¢ 0 0 0 0 Volume Filled Area Excavated (yd<sup>3</sup>) (ff<sup>2</sup>) (ff<sup>2</sup>) Direct Impacts (within construction limits) 83,635 61,420 5,227 2178 870 435 27,023 5.222 50 0 0 0 Volume Excavated (yd<sup>3</sup>) 1,944 400 208 20 5 12 and storm sewer construction Sideslope and ditch grading, Sideslope and ditch grading, Sideslope and ditch grading Sideslope and ditch grading; Sideslope and ditch grading Storm sewer and retaining and culvert construction Sideslope grading **Proposed Action** wall construction Total Area Impacted (acres) 0.02 1.920.01 1.41 0.12 0.05 Category 1 Emergent Category 1 Emergent Category 1 Emergent Category 1 Emergent **Modified Category 2** Forested/Emergent Emergent/Scrub-Shrub Wetland Description Category 1 Wetland Wetland Wetland Wetland Wetland S.R. 2, Sta. 454+00, 160 ft S.R. 615 Ramp B, Sta. 0+50 to Sta. 11+00 (S.R. 2 S.R. 2, Sta. 359+80 to Sta. 378+75, 80 ft Rt. Som Center Rd. (S.R. 91), S.R. 2, Sta. 645+90 to Sta. S.R. 2, Sta. 359+75 to Sta. Sta. 27+50 (S.R. 2, Sta. Lt. to S.R. 306 ramp I, Sta. 614+50), 60 ft. Rt. Sta. 70+50, 100 ft.Lt. 308+00), 390 ft Rt. 647+90, 120 ft. Rt. 379+50, 100 ft Lt. Location Wetland 4/5 Wetland 30 Wetland 11 Wetland 12 Wetland 7 Wetland 21 Feature

C. WHOLE PROJECT SUMMARY OF ACTIVITIES

				Ē	Total Ducing Execution	France	ion					Total Project Fill	biect Fill	
Total Project Lineal Stream Disturbances	al Stream Distui	LDADCes		5	שו ז ו הוכרנ	TAKA VAL								
Total Length Disturbed due to Proposed Structures, Highway Fill, Channel Change or	Length Disturbed due Net Length to Temporary Disturbed <sup>[3]</sup>	Net Length Disturbed <sup>[3]</sup>	Stream Excavated	am ated	Wetland Excavated	and 'ated	Total Excavation	al atíon	Stream Filled (standard roadfill, channel protection, temp crossing & other materials	Filled lard channel u, temp & other ials	Wetland Filled	l Filled	Total Filled	Filled
Channel Protection	0		Volume	Area	<u>Area Volume Area Volume Area Volume Area Volume Area</u>	Area	Volume	Area	Volume	Area	Volume		Volume	Area
			(rd <sup>a</sup> )	(vd²)	(yd²)	(vd²)	$(yd^3)$ $(yd^2)$	(yd²)	(yd <sup>3</sup> ) (yd <sup>2</sup> )	(yd²)	(yd <sup>3</sup> )	(yd <sup>2</sup> ) (yd <sup>3</sup> )	(yd <sup>3</sup> )	(yd²)
2 547	20	3,567	1,625	5,640	2,632	59,903	4,157	65,543	4,429	10,228	32,295	5,640 2,632 59,903 4,157 65,543 4,429 10,228 32,295 102,434 37,264 112,662	37,264	112,662

			Expected	<b>Expected Impacts by Alternative</b>	ve		
Alternative	Direct Stream Impacts	Aquatic Hab. (QHEJ/HHEI)/Use Designation/Stream Flow	Aquatic Biota	T & E Species <sup>[1]</sup>	Terrestrial Plant/Animals (Riparian Area)	Wetlands	Summary for Alternative
Preferred	Primarily short-term construction impacts (increased erosion and sedimentation); Overall, no long- term impacts to water quality are expected. Total Stream Impacts: 5,141 linear feet Temporary Fill: 0.440 acres Permanent Fill: 2.465 acres	Stream 1/56 (HHEI)/Intermittent Stream 2/64 (HHEI)/Intermittent Stream 3/45 (HHEI)/Intermittent Stream 4/50 (HHEI)/Intermittent Stream 5/64 (HHEI)/Intermittent Stream 6/64.25 (QHEI)/Peremial Stream 9/78 (HHEI)/Intermittent Stream 10/24 (HHEI)/Intermittent Stream 13/51 (HHEI)/Intermittent Stream 13/56 (HHEI)/Intermittent Stream 13/56 (HHEI)/Intermittent Stream 13/56 (QHEI)/Peremial Stream 16/56 (QHEI)/Peremial Stream 16/56 (QHEI)/Peremial Stream 18/35 (QHEI)/Peremial Stream 18/35 (QHEI)/Peremial Stream 18/35 (QHEI)/Peremial Stream 18/35 (QHEI)/Peremial Stream 18/35 (QHEI)/Peremial Stream 18/35 (QHEI)/Peremial Stream 18/35 (QHEI)/Intermittent	The existing fish and macrobenthos are expected to be displaced, but not significantly affected within any stream. Examples of fish species include: largemouth bass ( <i>Micropterus</i> salmoides), white suckers ( <i>Catostomus</i> <i>commersoni</i> ), smallmouth bass ( <i>Micropterus</i> <i>dolomieui</i> ), creek chub ( <i>Semotilus</i> <i>atromaculatus</i> ), sunfish ( <i>Lepomis</i> sp.). Several examples of macrobenthos species include: <i>Hydropsyche</i> sp., <i>Argia</i> sp., <i>Ganmarus</i> sp., <i>Chironomidae</i> sp., and <i>Hirudinea</i> sp.	No federal/state threatened or endangered species were identified in the project area. The range of the Indiana bat ( <i>Myotis</i> sodalis), the piping plover ( <i>Charadrius</i> melodus), and the bald eagle ( <i>Haliaeetus</i> leucocephalus) include Lake County. It is unlikely that any of these species will be adversely affected.	Very common plant, mammal, bird, and amphibian species. Examples of mammal, bird, and amphibian species include: white- tailed deer (Odocoileus virginianus), raccoon (Procyon lotor), European starling (Sturnus vulgaris), Northern cardinalis), and green frog (Rana (Sturnus vulgaris), Northern cardinalis), and green frog (Rana clamitans). Examples of plant species include: silver maple (Acer saccharinum), chicory (Cichorium intybus), tall fescue (Festuca elatior), common reed (Phragmites australis), and Kentucky bluegrass (Poa pratensis). These species are expected to be displaced, but not significantly affected.	Non-Isolated Total Impact: 4.55 acres 3.81 acres of impact for non- forested Category 1 wetlands; 0.65 acres of impact for forested Category 2 wetlands 0.12 acres of impact for non- forested Category 1 wetlands; 0.05 acres of impact for non- forested Category 1 wetlands; 0.05 acres of impact for forested Category 1 wetlands	No permanent impacts to sensitive habitats, T&E species, or aquatic biota. Siltation resulting from the construction activities may reduce species diversity and abundance during construction and shortly afterwards. However, it is unlikely that construction activities will result in the permanent loss of any aquatic species. The project may require the cutting of several trees that possess Indiana bat roosting potential.

Table D. 404/401 Application: Proposed Lowering of Water Quality by the Preferred, Minimal, and Non-Degradation Alternatives.

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			Expected	<b>Expected Impacts by Alternative</b>	ve		
Alternative	Direct Stream Impacts	Aquatic Hab. (QHEI/HHEI)/Use Designation/Stream Flow	Aquatic Biota	T & E Species <sup>11</sup>	Terrestrial Plant/Animals (Riparian Area)	Wetlands	Summary for Alternative
Minimal Degradation	Primarily short-term construction impacts (increased erosion and sedimentation); Overall, no long- term impacts to water quality are expected. Total Stream Impacts: 3,547 linear feet Temporary Fill: 0.439 acres Permanent Fill: 1.927 acres	Stream 1/56 (HHEJ)/Intermittent Stream 2/64 (HHEI)/Intermittent Stream 3/45 (HHEI)/Intermittent Stream 4/50 (HHEI)/Intermittent Stream 5/64 (HHEI)/Intermittent Stream 8/14 (HHEI)/Intermittent Stream 10/24 (HHEI)/Intermittent Stream 10/24 (HHEI)/Intermittent Stream 12/69 (HHEI)/Intermittent Stream 13/51 (HHEI)/Intermittent Stream 13/51 (HHEI)/Intermittent Stream 13/51 (HHEI)/Intermittent Stream 13/56 (HHEI)/Intermittent Stream 13/51 (HHEI)/Intermittent Stream 13/56 (HHEI)/Intermittent Stream 13/56 (HHEI)/Intermittent Stream 13/56 (HHEI)/Intermittent Stream 13/56 (HHEI)/Intermittent Stream 13/56 (HHEI)/Intermittent Stream 16/56 (QHEI)/Perennial	The existing fish and macrobenthos are expected to be displaced, but not significantly affected within any stream. Examples of fish species include: largemouth bass (Micropterus salmoides), white suckers (Catostornus commersoni), smallmouth bass (Micropterus dolomieui), creek chub (Semotilus atromaculatus), sunfish (Lepomis sp.). Several examples of macrobenthos species include: Hydropsyche sp., Argia sp., Chironomidae sp., and Hirudinea sp.	No federal/state threatened or endangered species were identified in the project area. The range of the Indiana bat (Myotis sodalis), the piping plover (Charadrius melodus), and the bald eagle (Haliaeetus leucocephalus) include Lake County. It is unlikely that any of these species will be adversely affected.	Very common plant, mammal, bird, reptile, and amphibian species. Examples of mammal, bird, and amphibian species include: white- tailed deer (Odocoileus virginianus), raccoon (Procyon lotor), European starling (Sturmus vulgaris), Northern cardinal (Cardinalis cardinalis), and green frog (Rana clarnitans). Examples of plant species include: silver maple (Acer saccharinum), chicory (Cichorium intybus), tall fescue (Festuca elatior), common reed (Phragmites australis), and Kentucky bluegrass (Poa pratensis). These significantly affected within any stream.	Non-Isolated Total Impact: 3.53 acres of impact for non- forested Category 1 wetlands; 0.02 acres of impact for forested Category 2 wetlands 0.02 acres of impact for non- forested Category 1 wetlands; 0.01 acres of impact for forested Category 1 wetlands; 0.01 acres of impact for forested Category 1 wetlands; 0.01	No permanent impacts to sensitive habitats, T&E species, terrestrial species, or aquatic biota. Siltation resulting from the construction activities may reduce species diversity and abundance during construction and shortly afterwards. However, it is unlikely that construction and shortly afterwards. The project may require the cutting of several trees that possess Indiana bat roosting potential.
Non- Degradation	None	No impacts as current structures are in place (culverts, bridges, etc.)	None	None	None	None	No impacts for this alternative.
[1] Impact f	ootprint of the Preferred achieve pre-	[1] Impact footprint of the Preferred Alternative includes areas upstream and/or downstream of proposed structures where energy and erosion control components (channel protection) are required to achieve pre-construction stream velocity, water surface elevation and channel stability conditions; no impact to stream flow patterns are expected.	ream and/or downstream of p vater surface elevation and ch	roposed structures where nannel stability conditions:	energy and erosion control ( ; no impact to stream flow p	components (channel p atterns are expected.	rotection) are required to

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Table D. 404/401 Application: Proposed Lowering of Water Quality by the Preferred, Minimal, and Non-Degradation Alternatives.

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Stream		T of Mittention!	Watershed (8 Digit HUC)	Digit HUC)	OHFI Score	HHEI Score	Mitigated Length <sup>1</sup>	l Length <sup>i</sup>
Name	Impacted Length	Type of Muugation.	Impacted	Mitigated <sup>1</sup>	Апы зсие		On-site	<b>Off-site</b>
Stream 1	65 linear feet (Preferred Alternative); 70 linear feet (Minimal Degradation Alternative)	N/A	04110003	N/A	N/A	56	N/A	N/A
Stream 2	50 linear feet (Preferred Alternative); 40 linear feet (Minimal Degradation Alternative)	N/A	04110003	N/A	N/A	64	N/A	N/A
Stream 3	907 linear feet (Preferred Alternative); 907 linear feet (Minimal Degradation Alternative)	N/A	04110003	N/A	N/A	45	N/A	N/A
Stream 4	1,960 linear feet (Preferred Alternative); 1,050 linear feet (Minimal Degradation Alternative)	N/A	04110003	N/A	N/A	50	N/A	N/A
Stream 5	50 linear feet (Preferred Alternative); 33 linear feet (Minimal Degradation Alternative)	N/A	04110003	N/A	N/A	64	N/A	N/A
Stream 6	129 linear feet (Preferred Alternative); 65 linear feet (Minimal Degradation Alternative)	N/A	04110003	N/A	64.25	N/A	N/A	N/A
Stream 8	61 linear feet (Preferred Alternative); 70 linear feet (Minimal Degradation Alternative)	N/A	04110003	N/A	N/A	14	N/A	N/A
Stream 9	120 linear feet (Preferred Alternative); 120 linear feet (Minimal Degradation Alternative)	N/A	04110003	N/A	N/A	78	N/A	N/A
Stream 10	240 linear feet (Preferred Alternative); 240 linear feet (Minimal Degradation Alternative)	N/A	04110003	N/A	N/A	24	N/A	N/A
Stream 12	161 linear feet (Preferred Alternative); 161 linear feet (Minimal Degradation Alternative)	N/A	04110003	N/A	N/A	69	N/A	N/A
Stream 13	108 linear feet (Preferred Alternative); 85 linear feet (Minimal Degradation Alternative)	N/A	04110003	N/A	N/A	51	N/A	N/A
Stream 14	150 linear feet (Preferred Alternative); 105 linear feet (Minimal Degradation Alternative)	N/A	04110003	N/A	N/A	56	N/A	N/A
Stream 15	320 linear feet (Preferred Alternative); 320 linear feet (Minimal Degradation Alternative)	N/A	04110003	N/A	57.5	N/A	N/A	N/A
Stream 16	285 linear feet (Preferred Alternative); 281 linear feet (Minimal Degradation Alternative)	N/A	04110003	N/A	56	N/A	N/A	N/A
Stream 17	80 linear feet (Preferred Alternative); No impact (Minimal Degradation Alternative)	N/A	04110004	N/A	64.25	N/A	N/A	N/A
Stream 18	450 linear feet (Preferred Alternative); No impact (Minimal Degradation Alternative)	N/A	04110003	N/A	N/A	35	N/A	N/A
<sup>1</sup> ODOT has p	ODOT has proposed two stream mitigation projects to mitigate for the impacts off-site – the Gully Brook Property and the purchase of a conservation easement in the Grand River watershed	impacts off-site – the Gully	r Brook Property a	nd the purchase (	of a conservation	easement in the	Grand River wa	tershed.

Table F. 404/401 Application: Proposed Wetland Mitigation for the Preferred and Minimal Degradation Alternatives.

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		¢				LAK-2-3.32	LAK-2-3.32; PID 13486 September 2007	ptember 2007
		Type of Wetland	Watershed (8 Digit HUC)	Digit HUC)	ORAM	OEPA	Mitigat	Mitigated Area
No.	Impacted Area	(Isolated/Non- Isolated)	Impacted	Mitigated <sup>1</sup>	v5.0 Score	Category	On-site	Off-site <sup>1</sup>
m	0.03 acres (Preferred Alternative); No Immact (Minimal Degradation Alternative)	Isolated	04110003	N/A	22	Category 1	N/A	N/A
4/5	0.06 acres (Preferred Alternative); 0.02 acres (Minimal Degradation)	Non-Isolated	04110003	V/N	38/29	Modified Category 2/ Category 1	N/A	0.04
2	1.92 acres (Preferred Alternative); 1.92 acres (Minimal Degradation Alternatives)	Non-Isolated	04110003	N/A	27	Category 1	N/A	2.88
11	0.15 acres (Preferred Alternative); 0.01 acres (Minimal Degradation Alternative)	Non-Isolated	04110003	N/A	22	Category 1	N/A	0.02
12	1.47 acres (Preferred Alternative); 1.41 acres (Minimal Degradation Alternative)	Non-Isolated	04110003	N/A	24	Category 1	N/A	2.12
13	0.07 acres (Preferred Alternative); 0.01 acres (Minimal Degradation Alternative)	Isolated	04110003	N/A	17	Category 1	N/A	0.02
17/18	0.06 acres (Preferred Alternative); No Impact (Minimal Degradation Alternative)	Non-Isolated	04110003	N/A	33/43	Modified Category 2	N/A	N/A
19	0.01 acres (Preferred Alternative); No Impact (Minimal Degradation Alternative	Isolated	04110003	N/A	23	Category 1	N/A	N/A
20	0.01 acres (Preferred Alternative); No Impact (Minimal Degradation Alternative)	Isolated	04110003	N/A	24	Category 1	N/A	N/A
21	0.17 acres (Preferred Alternative); 0.12 acres (Minimal Degradation Alternative)	Non-Isolated	04110003	N/A	6	Category 1	N/A	0.18
23	0.65 (Preferred Alternative); No Impact (Minimal Degradation Alternative)	Non-Isolated	04110004	N/A	36	Modified Category 2	N/A	N/A
30	0.07 acres (Preferred Alternative); 0.05 acres (Minimal Degradation Alternative)	Non-Isolated	04110003	N/A	7	Category 1	N/A	0.08
<sup>1</sup> The acreage	<sup>1</sup> The acreages are for the minimal degradation alternative only.			-				

Total Resource (acres/miles)         tive)       2.28 miles         ative)       0.93 miles         0.93 miles       0.75 miles         ative)       0.63 miles         ative)       0.63 miles         ntive)       0.63 miles         ative)       0.63 miles         ative)       0.63 miles         ative)       0.63 miles         ative)       0.60 miles         ative)       2.05 miles         ative)       7.03 miles         ative)       1.79 miles					
0.061 acres/65 linear feet (Preferred Alternative)       2.28 miles         0.065 acres/70 linear feet (Minimal Degradation Alternative)       2.38 miles         0.0168 acres/50 linear feet (Minimal Degradation Alternative)       0.93 miles         0.014 acres/40 linear feet (Minimal Degradation Alternative)       0.63 miles         0.014 acres/907 linear feet (Minimal Degradation Alternative)       0.63 miles         0.014 acres/1050 linear feet (Minimal Degradation Alternative)       0.63 miles         0.010 acres/1,960 linear feet (Preferred Alternative)       0.63 miles         0.217 acres/1,050 linear feet (Minimal Degradation Alternative)       0.40 miles         0.016 acres/1,960 linear feet (Minimal Degradation Alternative)       0.40 miles         0.010 acres/1,960 linear feet (Preferred Alternative)       0.40 miles         0.016 acres/1,050 linear feet (Preferred Alternative)       0.40 miles         0.017 acres/1,050 linear feet (Minimal Degradation Alternative)       0.40 miles         0.017 acres/120 linear feet (Minimal Degradation Alternative)       0.69 miles         0.017 acres/125 linear feet (Minimal Degradation Alternative)       0.69 miles         0.017 acres/125 linear feet (Minimal Degradation Alternative)       0.69 miles         0.017 acres/126 linear feet (Minimal Degradation Alternative)       0.69 miles         0.017 acres/126 linear feet (Minimal Degradation Alternative)       0.69 miles	Resource	Acres/Feet Impacted (Alt)	Total Resource (acres/miles)	Volume of Fill (CY)	% Avoided
0.018 acres/50 linear feet (Preferred Alternative)       0.93 miles         0.014 acres/40 linear feet (Minimal Degradation Alternative)       0.93 miles         0.014 acres/907 linear feet (Minimal Degradation Alternative)       0.63 miles         0.883 acres/907 linear feet (Minimal Degradation Alternative)       0.63 miles         0.883 acres/907 linear feet (Minimal Degradation Alternative)       0.63 miles         0.883 acres/1,050 linear feet (Minimal Degradation Alternative)       0.75 miles         0.217 acres/1,050 linear feet (Minimal Degradation Alternative)       0.40 miles         0.010 acres/33 linear feet (Minimal Degradation Alternative)       0.40 miles         0.011 acres/129 linear feet (Minimal Degradation Alternative)       0.60 miles         0.034 acres/129 linear feet (Preferred Alternative)       0.60 miles         0.034 acres/129 linear feet (Minimal Degradation Alternative)       0.69 miles         0.034 acres/129 linear feet (Minimal Degradation Alternative)       0.69 miles         0.034 acres/129 linear feet (Minimal Degradation Alternative)       0.69 miles         0.037 acres/126 linear feet (Preferred Alternative)       0.69 miles         0.049 acres/125 linear feet (Minimal Degradation Alternative)       0.69 miles         0.049 acres/126 linear feet (Preferred Alternative)       0.69 miles         0.049 acres/126 linear feet (Minimal Degradation Alternative)       7.03 miles	Stream 1	0.061 acres/65 linear feet (Preferred Alternative) 0.065 acres/70 linear feet (Minimal Degradation Alternative)	2.28 miles	51 CY (Preferred Alternative) 55 CY (Minimal Degradation Alternative)	99.42% (Preferred Alternative) 99.40% (Minimal Degradation Alternative)
0.883 acres/907 linear feet (Preferred Alternative)       0.63 miles         0.883 acres/1960 linear feet (Minimal Degradation Alternative)       0.63 miles         0.217 acres/1,050 linear feet (Minimal Degradation       0.75 miles         0.217 acres/1,050 linear feet (Minimal Degradation       0.75 miles         0.016 acres/50 linear feet (Minimal Degradation Alternative)       0.40 miles         0.010 acres/1,050 linear feet (Minimal Degradation Alternative)       0.40 miles         0.011 acres/1,050 linear feet (Minimal Degradation Alternative)       0.40 miles         0.012 acres/129 linear feet (Preferred Alternative)       0.69 miles         0.034 acres/129 linear feet (Preferred Alternative)       0.69 miles         0.046 acres/120 linear feet (Minimal Degradation Alternative)       0.69 miles         0.046 acres/120 linear feet (Minimal Degradation Alternative)       7.03 miles         0.370 acres/240 linear feet (Minimal Degradation Alternative)       7.03 miles         0.370 acres/240 linear feet (Minimal Degradation Alternative)       7.03 miles         0.055 acres/161 linear feet (Minimal Degradation Alternative)       7.03 miles         0.055 acres/161 lin	Stream 2	0.018 acres/50 linear feet (Preferred Alternative) 0.014 acres/40 linear feet (Minimal Degradation Alternative)	0.93 miles	25 CY (Preferred Alternative) 70 CY (Minimal Degradation Alternative)	98.98% (Preferred Alternative) 99.10% (Minimal Degradation Alternative)
0.405 acres/1,960 linear feet (Preferred Alternative 0.217 acres/1,050 linear feet (Minimal Degradation Alternative)       0.75 miles         0.217 acres/1,050 linear feet (Minimal Degradation Alternative)       0.40 miles         0.016 acres/50 linear feet (Minimal Degradation Alternative)       0.40 miles         0.017 acres/129 linear feet (Minimal Degradation Alternative)       0.40 miles         0.017 acres/65 linear feet (Minimal Degradation Alternative)       5 miles         0.034 acres/129 linear feet (Minimal Degradation Alternative)       0.69 miles         0.017 acres/61 linear feet (Minimal Degradation Alternative)       0.69 miles         0.020 acres/120 linear feet (Minimal Degradation Alternative)       0.69 miles         0.020 acres/120 linear feet (Minimal Degradation Alternative)       0.69 miles         0.020 acres/120 linear feet (Minimal Degradation Alternative)       2.05 miles         0.046 acres/120 linear feet (Preferred Alternative)       2.05 miles         0.0370 acres/120 linear feet (Preferred Alternative)       7.03 miles         0.370 acres/120 linear feet (Preferred Alternative)       7.03 miles         0.055 acres/161 linear feet (Minimal Degradation Alternative)       7.03 miles         0.055 acres/161 linear feet (Minimal Degradation Alternative)       7.03 miles		0.883 acres/907 linear feet (Preferred Alternative) 0.883 acres/907 linear feet (Minimal Degradation Alternative)		2,045 CY (Preferred Alternative) 2,045 CY (Minimal Degradation Alternative)	72.73% (Preferred Alternative) 72.70% (Minimal Degradation Alternative)
0.016 acres/50 linear feet (Preferred Alternative)       0.40 miles         0.010 acres/33 linear feet (Minimal Degradation Alternative)       0.40 miles         0.034 acres/129 linear feet (Minimal Degradation Alternative)       5 miles         0.034 acres/61 linear feet (Minimal Degradation Alternative)       5 miles         0.034 acres/129 linear feet (Minimal Degradation Alternative)       0.69 miles         0.034 acres/61 linear feet (Preferred Alternative)       0.69 miles         0.046 acres/125 linear feet (Preferred Alternative)       0.69 miles         0.046 acres/125 linear feet (Minimal Degradation Alternative)       2.05 miles         0.046 acres/126 linear feet (Minimal Degradation Alternative)       7.03 miles         0.370 acres/240 linear feet (Preferred Alternative)       7.03 miles         0.370 acres/161 linear feet (Preferred Alternative)       7.03 miles         0.370 acres/161 linear feet (Preferred Alternative)       7.03 miles         0.055 acres/161 linear feet (Preferred Alternative)       7.03 miles         0.055 acres/161 linear feet (Preferred Alternative)       7.03 miles	Stream 4	0.405 acres/1,960 linear feet (Preferred Alternative 0.217 acres/1,050 linear feet (Minimal Degradation Alternative)	0.75 miles	0 CY (Preferred Alternative) 0 CY (Minimal Degradation Alternative)	73.50% (Minimal Degradation Alternative)
0.034 acres/129 linear feet (Preferred Alternative)       5 miles         0.034 acres/65 linear feet (Minimal Degradation Alternative)       5 miles         0.034 acres/65 linear feet (Minimal Degradation Alternative)       5 miles         0.017 acres/61 linear feet (Preferred Alternative)       0.69 miles         0.020 acres/70 linear feet (Minimal Degradation Alternative)       0.69 miles         0.049 acres/125 linear feet (Minimal Degradation Alternative)       0.69 miles         0.046 acres/120 linear feet (Minimal Degradation Alternative)       2.05 miles         0.370 acres/240 linear feet (Preferred Alternative)       7.03 miles         0.370 acres/240 linear feet (Minimal Degradation Alternative)       7.03 miles         0.370 acres/161 linear feet (Minimal Degradation Alternative)       7.03 miles         0.055 acres/161 linear feet (Minimal Degradation Alternative)       1.79 miles	Stream 5	0.016 acres/50 linear feet (Preferred Alternative) 0.010 acres/33 linear feet (Minimal Degradation Alternative)	0.40 miles	30 CY (Preferred Alternative) 20 CY (Minimal Degradation Alternative)	97.63% (Preterred Alternative) 98.50% (Minimal Degradation Alternative)
0.017 acres/61 linear feet (Preferred Alternative)       0.69 miles         0.020 acres/70 linear feet (Minimal Degradation Alternative)       0.69 miles         0.0246 acres/125 linear feet (Preferred Alternative)       0.05 miles         0.046 acres/120 linear feet (Minimal Degradation Alternative)       2.05 miles         0.046 acres/120 linear feet (Minimal Degradation Alternative)       7.03 miles         0.370 acres/240 linear feet (Minimal Degradation Alternative)       7.03 miles         0.370 acres/240 linear feet (Minimal Degradation Alternative)       7.03 miles         0.370 acres/161 linear feet (Preferred Alternative)       1.79 miles         0.055 acres/161 linear feet (Minimal Degradation Alternative)       1.79 miles	Stream 6	0.034 acres/129 linear feet (Preferred Alternative) 0.034 acres/65 linear feet (Minimal Degradation Alternative)	5 miles	55 CY (Preferred Alternative) 55 CY (Minimal Degradation Alternative)	99.51% (Preferred Alternative) >99.99% (Minimal Degradation Alternative)
0.049 acres/125 linear feet (Preferred Alternative)       2.05 miles         0.046 acres/120 linear feet (Minimal Degradation Alternative)       2.05 miles         0.370 acres/240 linear feet (Preferred Alternative)       7.03 miles         0.370 acres/240 linear feet (Minimal Degradation Alternative)       7.03 miles         0.370 acres/240 linear feet (Minimal Degradation Alternative)       7.03 miles         0.370 acres/161 linear feet (Preferred Alternative)       1.79 miles         0.055 acres/161 linear feet (Preferred Alternative)       1.79 miles	Stream 8	0.017 acres/61 linear feet (Preferred Alternative) 0.020 acres/70 linear feet (Minimal Degradation Alternative)	0.69 miles	17 CY (Preferred Alternative) 20 CY (Minimal Degradation Alternative)	98.33% (Preferred Alternative) 99.98% (Minimal Degradation Alternative)
0.370 acres/240 linear feet (Preferred Alternative)       7.03 miles         0.370 acres/240 linear feet (Minimal Degradation Alternative)       7.03 miles         0.370 acres/161 linear feet (Minimal Degradation Alternative)       1.79 miles         0.055 acres/161 linear feet (Minimal Degradation Alternative)       1.79 miles         0.055 acres/161 linear feet (Preferred Alternative)       1.79 miles	Stream 9	0.049 acres/125 linear feet (Preferred Alternative) 0.046 acres/120 linear feet (Minimal Degradation Alternative	2.05 miles	78 CY (Preferred Alternative) 75 CY (Minimal Degradation Alternative)	98.85% (Preferred Alternative) 98.88% (Minimal Degradation Alternative)
0.069 acres/161 linear feet (Preferred Alternative) 0.055 acres/161 linear feet (Minimal Degradation Alternative) 7.0.077 cores/108 linear feet (Preferred Alternative)	Stream 10	0.370 acres/240 linear feet (Preferred Alternative) 0.370 acres/240 linear feet (Minimal Degradation Alternative)	7.03 miles	0 CY (Preferred Alternative) 0 CY (Minimal Degradation Alternative)	99.35% (Preterred Alternative) 99.94% (Minimal Degradation Alternative)
	Stream 12	0.069 acres/161 linear feet (Preferred Alternative) 0.055 acres/161 linear feet (Minimal Degradation Alternative)	1.79 miles	305 CY (Preferred Alternative) 240 CY (Minimal Degradation Alternative)	98.30% (Preterred Alternative) 98.30% (Minimal Degradation Alternative)
ative) 0.60 miles	Stream 13	<ul> <li>0.027 acres/108 linear feet (Preferred Alternative)</li> <li>0.021 acres/85 linear feet (Minimal Degradation Alternative)</li> </ul>	6.60 miles	190 CY (Preferred Alternative) 150 CY (Minimal Degradation Alternative)	99.69% (Preterred Alternative) 99.95% (Minimal Degradation Alternative)

Table G. 404/401 Application: Impacts and Avoidance Estimations.

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	Acree/Reet Tmnacted (Alt)	Total Resource	Volume of Fill (CY)	% Avoided
IXCOULT CC		(acres/mues)		99.15% (Preferred Alternative)
Stream 14	0.059 acres/150 linear feet (Preferred Alternative) 0.041 acres/105 linear feet (Minimal Degradation Alternative)	3.35 miles	220 CY (Preferred Alternative) 155 CY (Minimal Degradation Alternative)	99.40% (Minimal Degradation Alternative)
Stream 15	0.378 acres/320 linear feet (Preferred Alternative) 0.378 acres/320 linear feet (Minimal Degradation Alternative)	3.79 miles	975 CY (Preferred Alternative) 975 CY (Minimal Degradation Alternative)	98.40% (Preferred Alternative) 98.39% (Minimal Degradation Alternative)
Stream 16	0.178 acres/285 linear feet (Preferred Alternative) 0.175 acres/281 linear feet (Minimal Degradation Alternative)	47.9 milęs	522 CY (Preferred Alternative) 515 CY (Minimal Degradation Alternative)	<ul> <li>&gt;99.99% (Preferred Alternative)</li> <li>&gt;99.99% (Minimal Degradation Alternative)</li> </ul>
Stream 17	0.056 acres/80 linear feet (Preferred Alternative) No Impact (Minimal Degradation Alternative)	2.40 miles	272 CY (Preferred Alternative) 170 CY (Minimal Degradation Alternative)	99.37% (Preferred Alternative) 100% (Minimal Degradation
Stream 18	0.341 acres/450 linear feet (Preferred Alternative) No Impact (Minimal Degradation Alternarive)	0.56 miles	1,585 CY (Preferred Alternative) 0 CY (Minimal Degradation Alternative)	84.78% (Preferred Alternative) 100% (Minimal Degradation Alternative)
Wetland 3	0.03 acres (Preferred Alternative) No Impact (Minimal Degradation Alternative)	0.47 acres	24 CY (Preferred Alternative) 0 CY (Minimal Degradation Alternative)	93.62% (Preferred Alternative) 100% (Minimal Degradation Alternative)
Wetland 4/5	0.06 acres (Preferred Alternative) 0.02 acres (Minimal Degradation Alternative)	1.48 acres	0 CY (Preferred Alternative) 0 CY (Minimal Degradation Alternative)	95.95% (Preferred Alternative) 98.65% (Minimal Degradation Alternative)
Wetland 7	1.92 acres (Preferred Alternative) 1.92 acres (Minimal Degradation Alternative)	2.23 acres	27,023 CY (Preferred Alternative) 27,023 CY (Minimal Degradation Alternative)	13.99% (Preferred Alternative) 13.99% (Minimal Degradation Alternative)
Wetland 11	0.15 acres (Preferred Alternative) 0.01 acres (Minimal Degradation Alternative)	2.40 acres	0 CY (Preferred Alternative) 0 CY (Minimal Degradation Alternative)	93.75% (Preferred Alternative) 99.58% (Minimal Degradation Alternative)
Wetland 12	1.47 acres (Preferred Alternative) 1.41 acres (Minimal Degradation Alternative)	1.64 acres	5,444 CY (Preferred Alternative) 5,222 CY (Minimal Degradation Alternative)	10.37% (Preferred Alternative) 14.02% (Minimal Degradation Alternative)
Wetland13	0.07 acres (Preferred Alternative) 0.01 acres (Minimal Degradation Alternative)	0.71 acres	0 CY (Preferred Alternative) 0 CY (Minimal Degradation Alternative)	90.14% (Preferred Alternative) 98.59% (Minimal Degradation Alternative)

Table G. 404/401 Application: Impacts and Avoidance Estimations.

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Resource	Acres/Feet Impacted (Alt)	Total Resource (acres/miles)	Volume of Fill (CY)	% Avoided
Wetland 17/18	0.06 acres (Preferred Alternative) No Impact (Minimal Degradation Alternative)	8.69 acres	0 CY (Preferred Alternative) 0 CY (Minimal Degradation Alternative)	99.31% (Preferred Alternative) 100% (Minimal Degradation Alternative)
Wetland 19	0.01 acres (Preferred Alternative) No Impact (Minimal Degradation Alternative)	0.07 acres	0 CY (Preferred Alternative) 0 CY (Minimal Degradation Alternative)	85.71% (Preferred Alternative) 100% (Minimal Degradation Alternative)
Wetland 20	0.01 acres (Preferred Alternative) No Impact (Minimal Degradation Alternative)	0.12 acres	0 CY (Preferred Alternative) 0 CY (Minimal Degradation Alternative)	91.67% (Preferred Alternative) 100% (Minimal Degradation Alternative)
Wetland 21	0.17 acres (Preferred Alternative) 0.12 acres (Minimal Degradation Alternative)	0.20 acres	0 CY (Preferred Alternative) 0 CY (Minimal Degradation Alternative)	15% (Preferred Alternative) 67.57% (Minimal Degradation Alternative)
Wetland 23	0.65 acres (Preferred Alternative) No Impact (Minimal Degradation Alternative)	0.85 acres	0 CY (Preferred Alternative) 0 CY (Minimal Degradation Alternative)	33.52% (Preferred Alternative) 100% (Minimal Degradation Alternative)
Wetland 30	0.07 acres (Preferred Alternative) 0.05 acres (Minimal Degradation Alternative)	0.56 acres	114 CY (Preferred Alternative) 50 CY (Minimal Degradation Alternative)	<ul> <li>87.5 % (Preferred Alternative)</li> <li>91.07% (Minimal Degradation Alternative)</li> </ul>

Table G. 404/401 Application: Impacts and Avoidance Estimations.

APPENDIX A: GENERAL MAPS AND DESIGN DRAWINGS



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Figure 1. Project Vicinity Map.

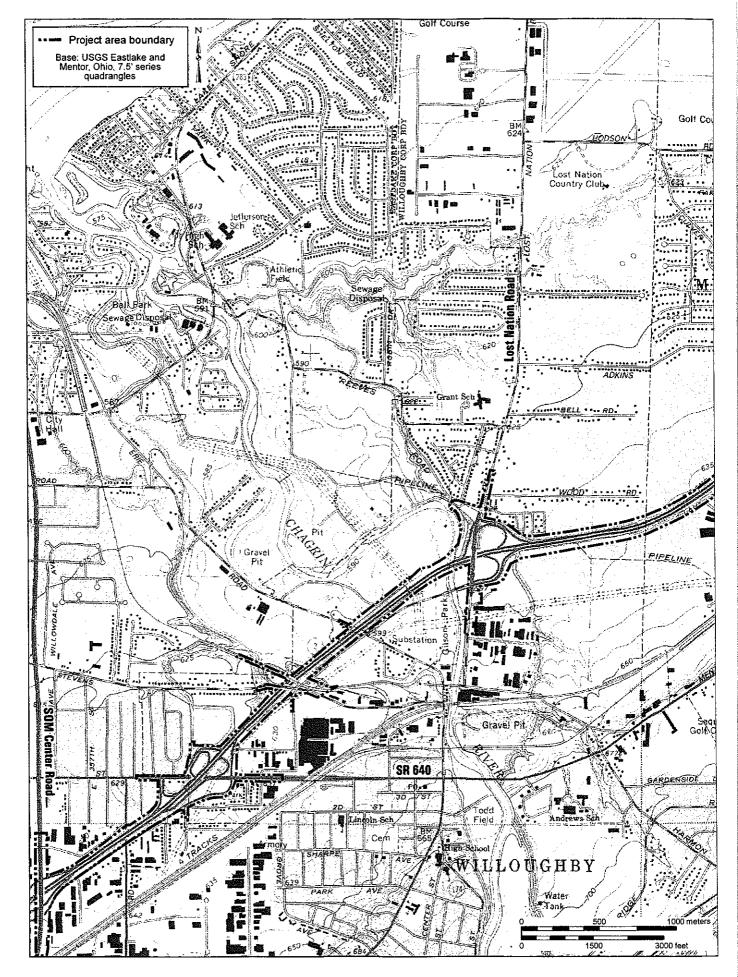


Figure 2. Project Location. (4 sheets)

Figure 2 Sheet 1 of 4

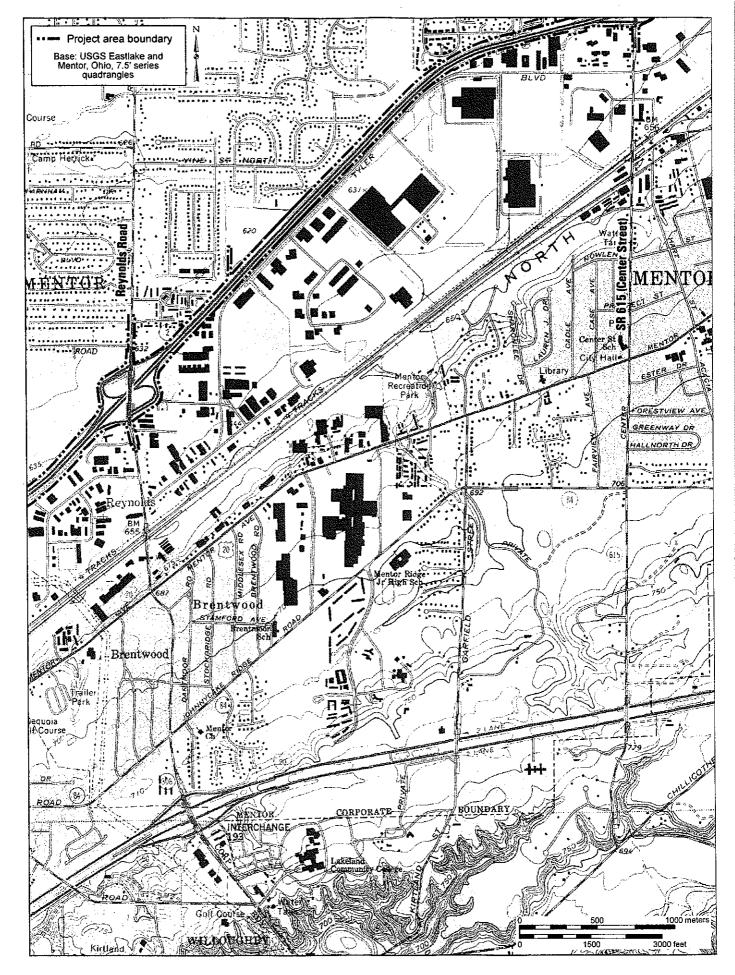


Figure 2. Project Location. (4 sheets)

Figure 2 Sheet 2 of 4

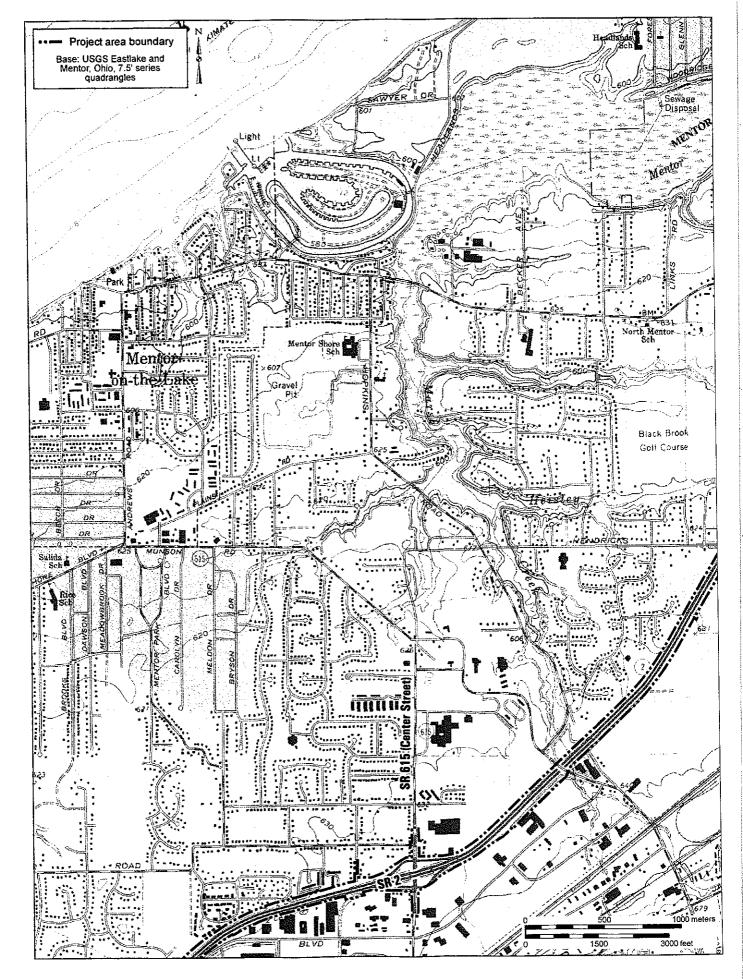


Figure 2 Project Location. (4 sheets)

Figure 2 Sheet 3 of 4

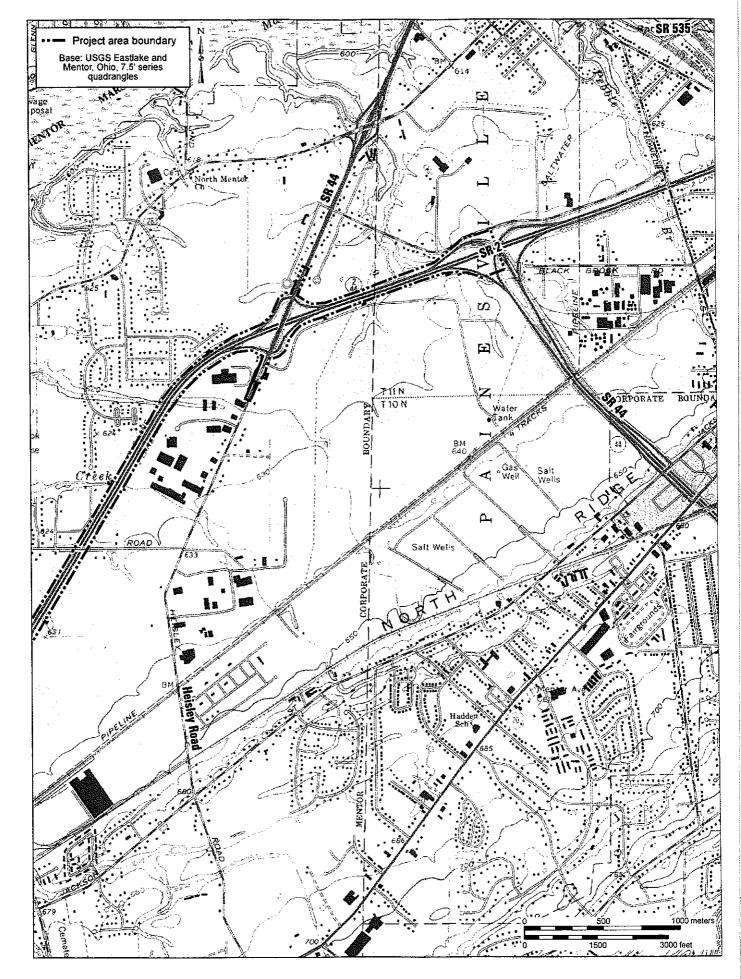


Figure 2 Project Location. (4 sheets)

Figure 2 Sheet 4 of 4

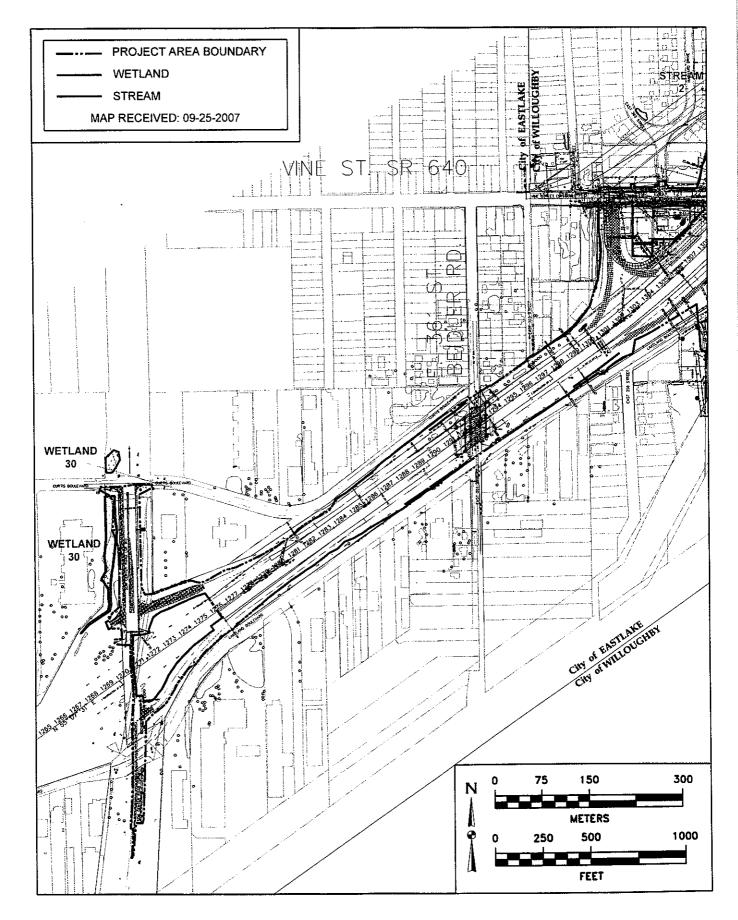


Figure 4. Minimum Degradation Alternative. (14 sheets)

Figure 4 Sheet 1 of 14

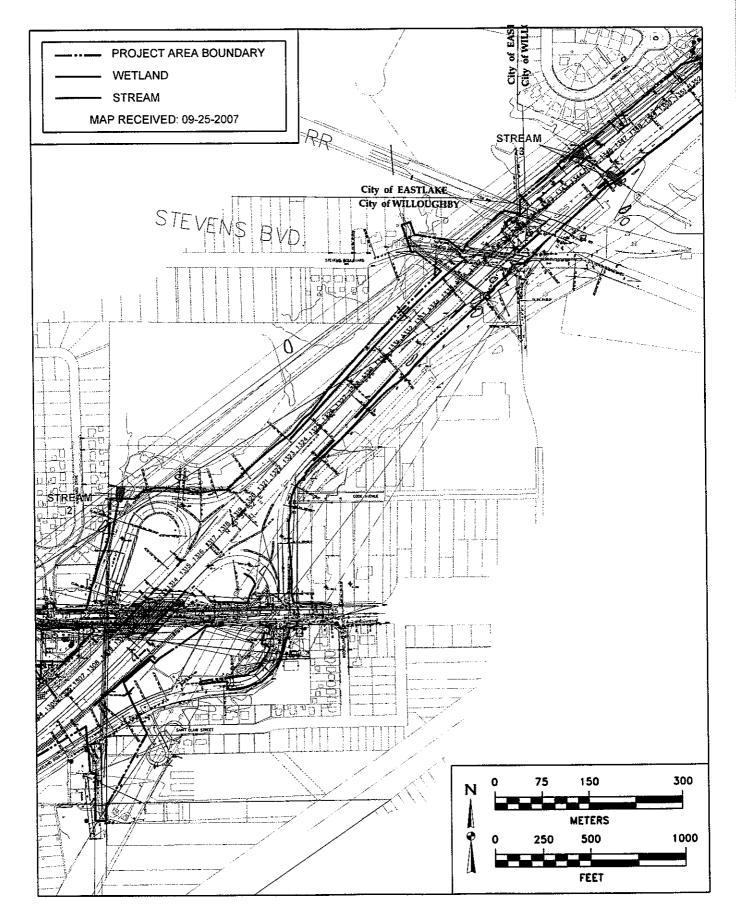


Figure 4. Minimum Degradation Alternative. (14 sheets)

Figure 4 Sheet 2 of 14

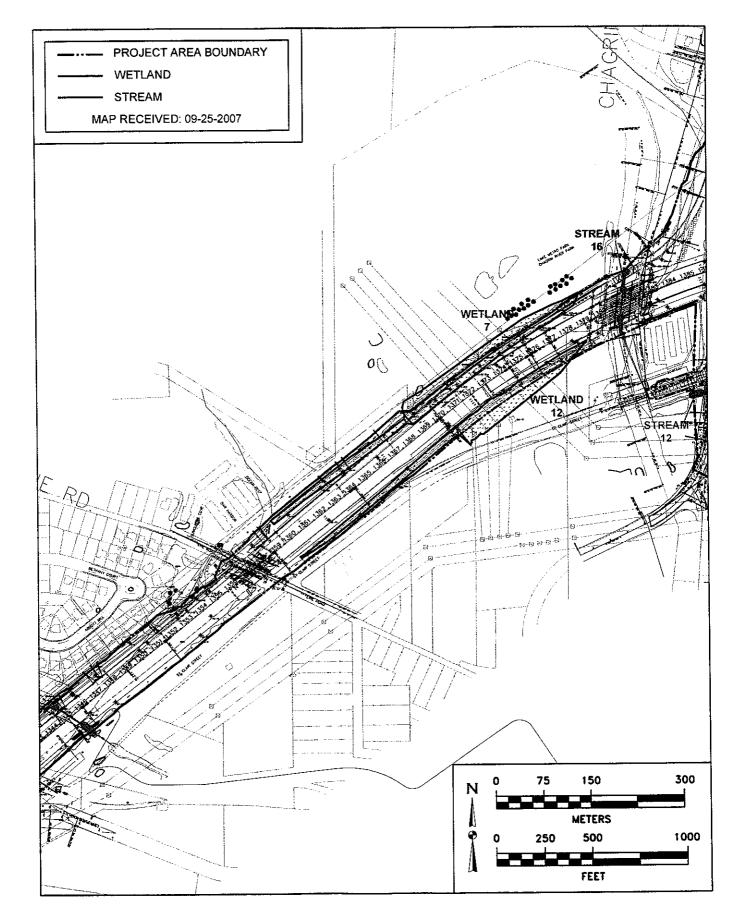


Figure 4. Minimum Degradation Alternative. (14 sheets)

Figure 4 Sheet 3 of 14

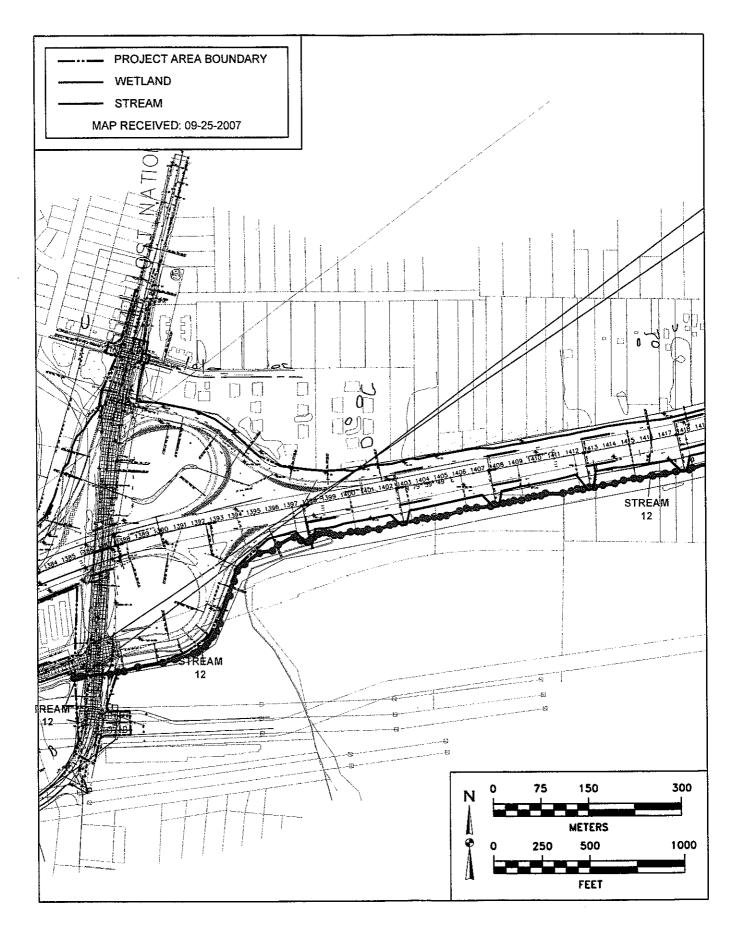


Figure 4. Minimum Degradation Alternative. (14 sheets)

Figure 4 Sheet 4 of 14

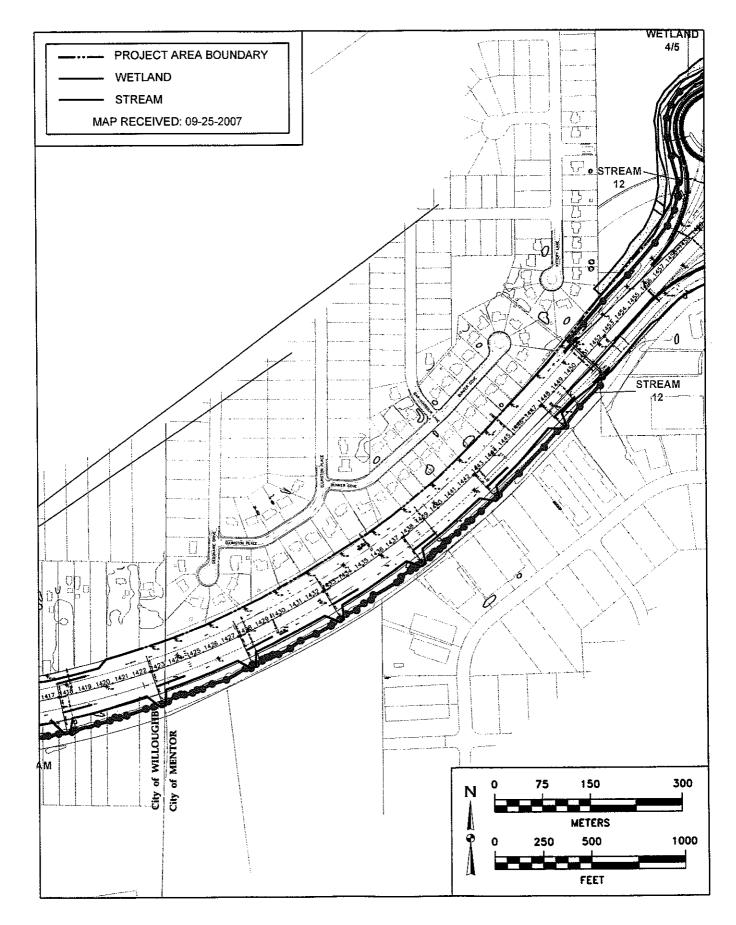


Figure 4. Minimum Degradation Alternative. (14 sheets)

Figure 4 Sheet 5 of 14

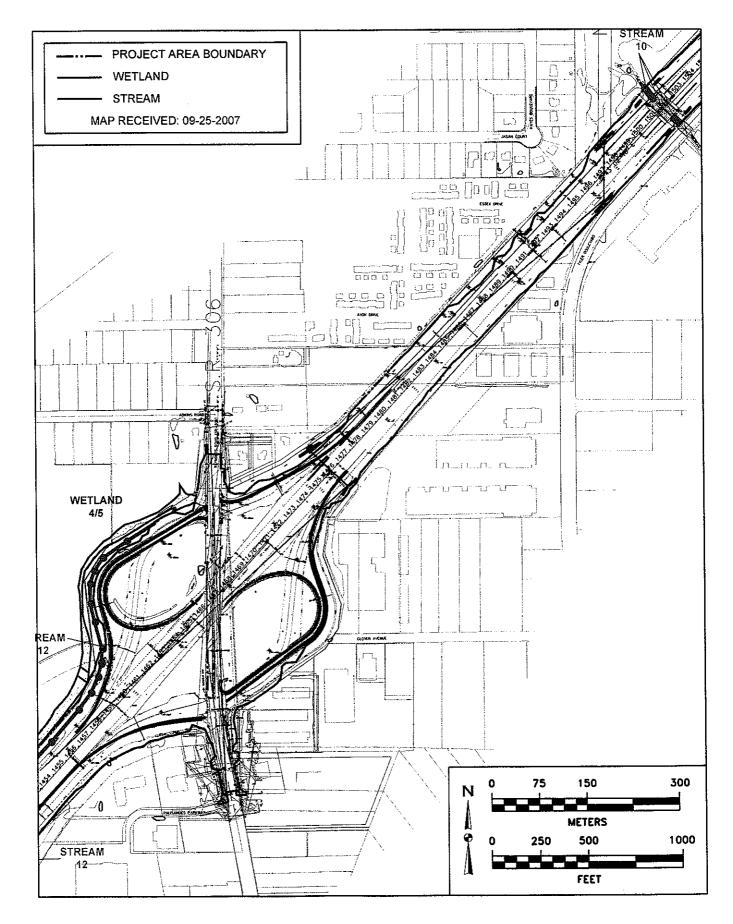


Figure 4. Minimum Degradation Alternative. (14 sheets)

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Figure 4 Sheet 6 of 14

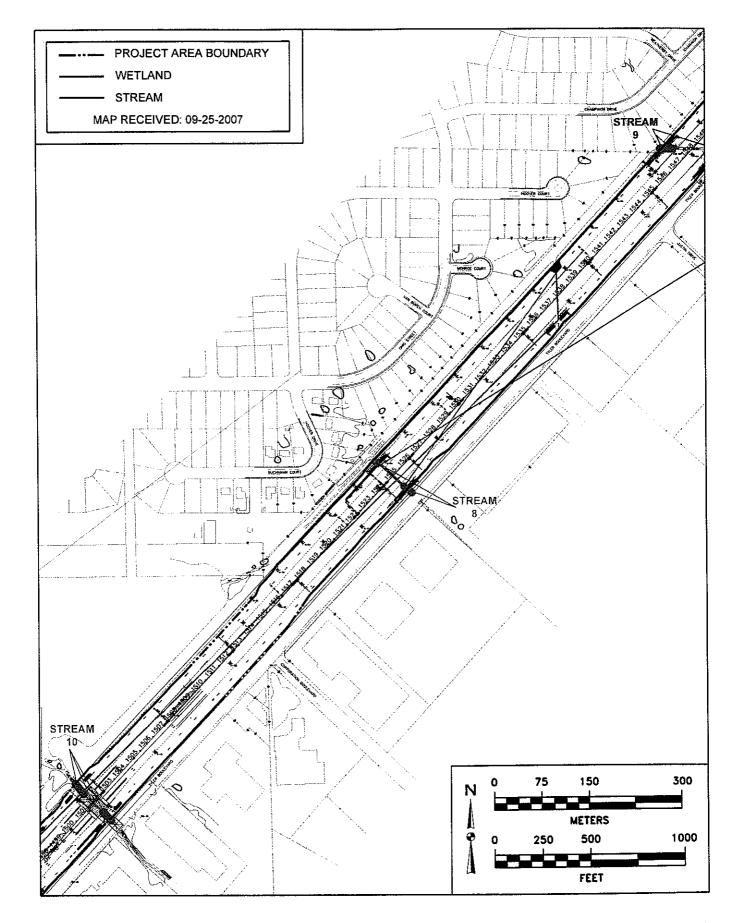


Figure 4. Minimum Degradation Alternative. (14 sheets)

Figure 4 Sheet 7 of 14

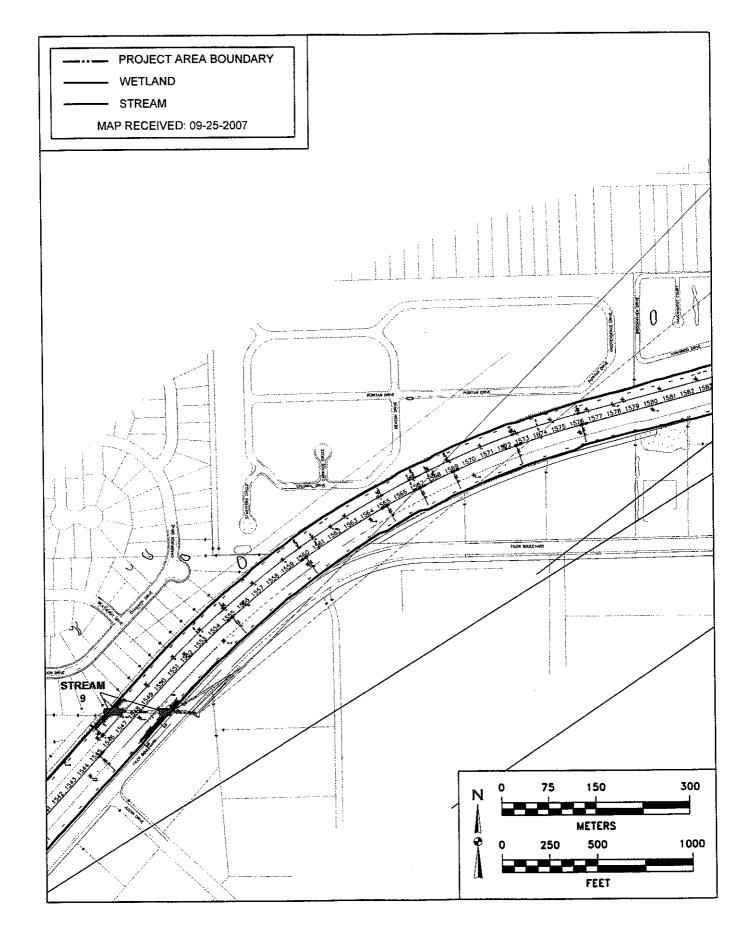


Figure 4. Minimum Degradation Alternative. (14 sheets)

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Figure 4 Sheet 8 of 14

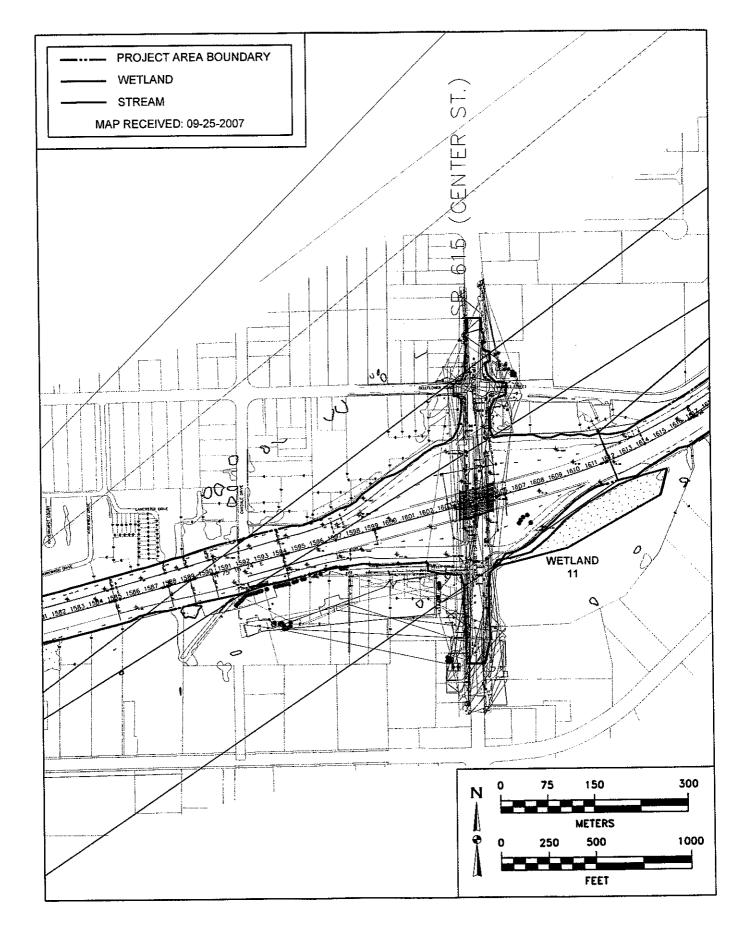


Figure 4 Sheet 9 of 14

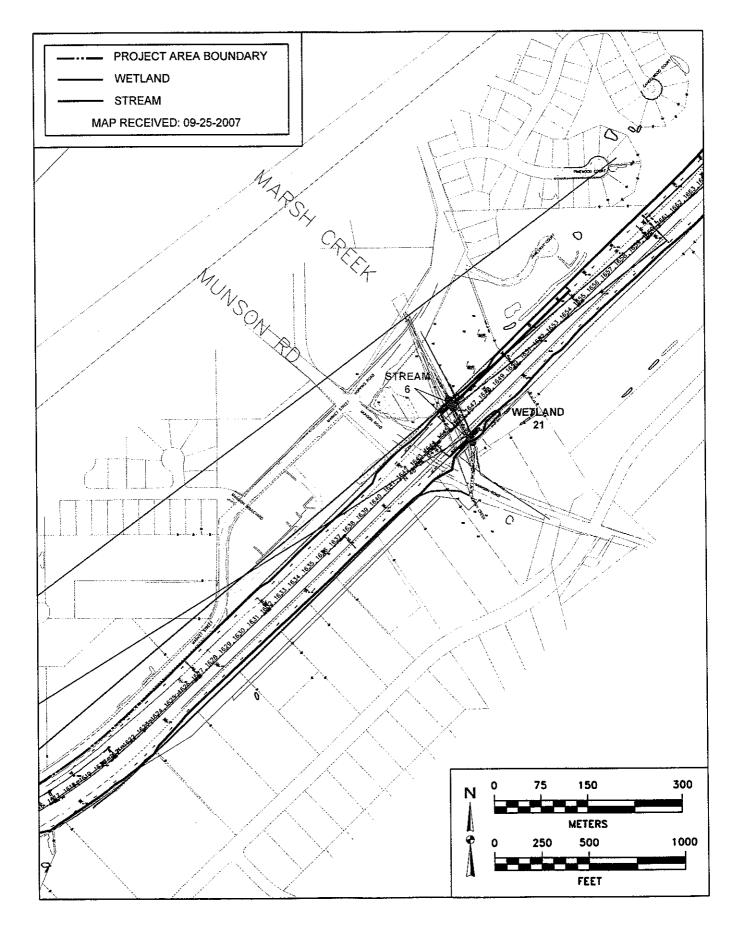


Figure 4 Sheet 10 of 14

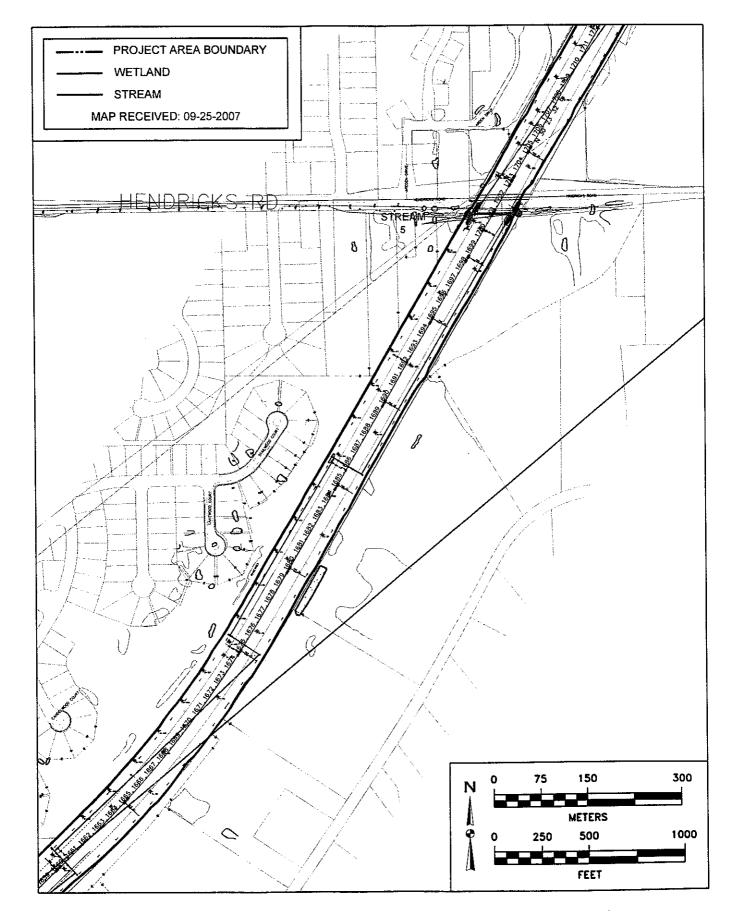


Figure 4. Minimum Degradation Alternative. (14 sheets)

Figure 4 Sheet 11 of 14

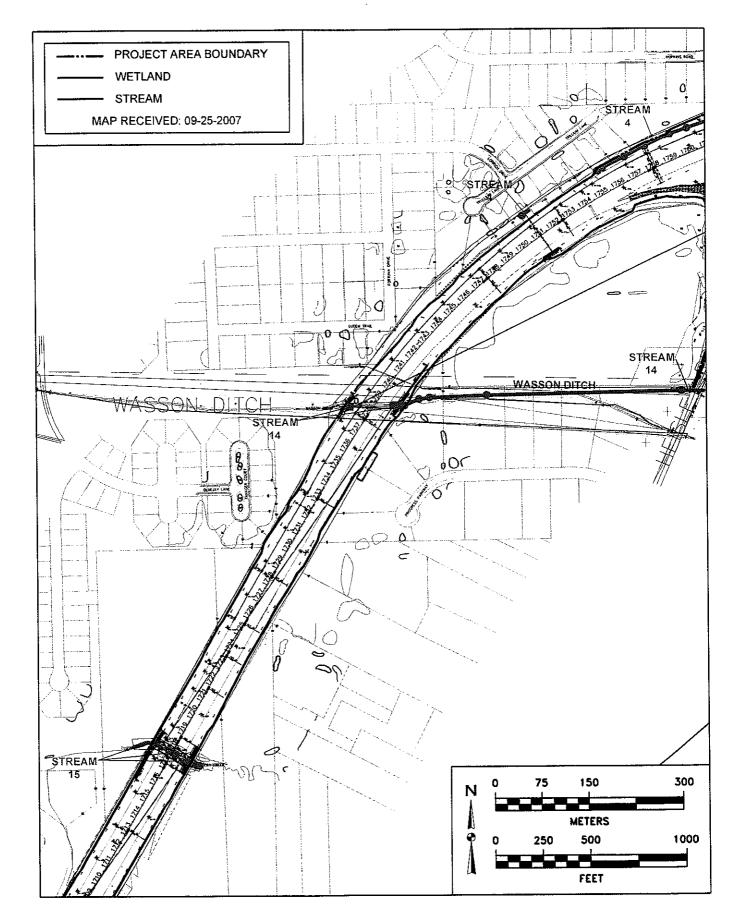


Figure 4. Minimum Degradation Alternative. (14 sheets)

Figure 4 Sheet 12 of 14

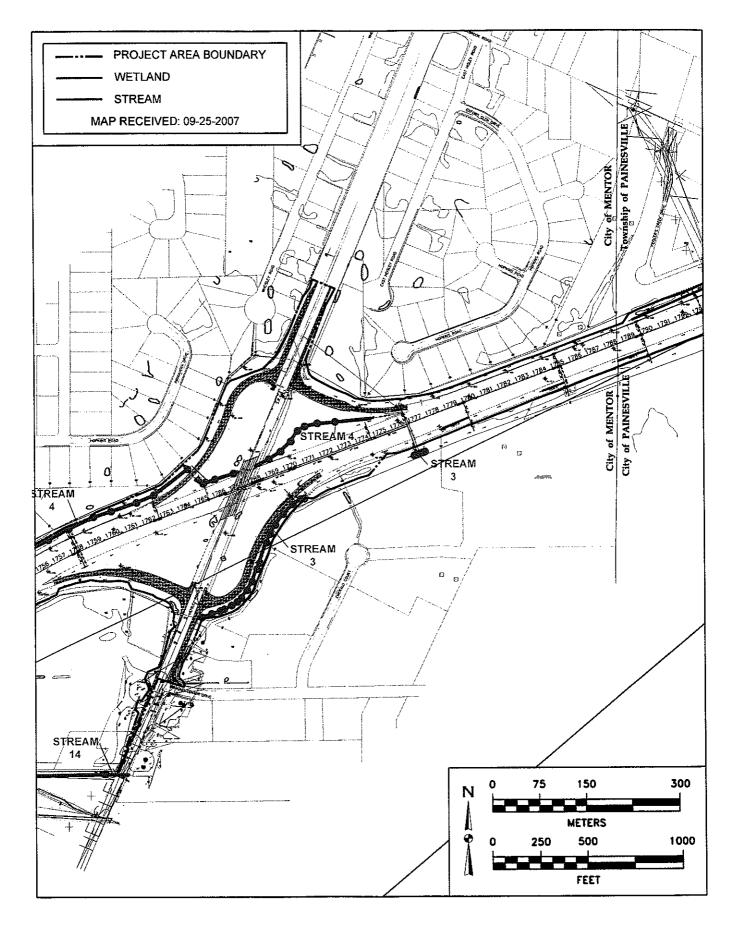


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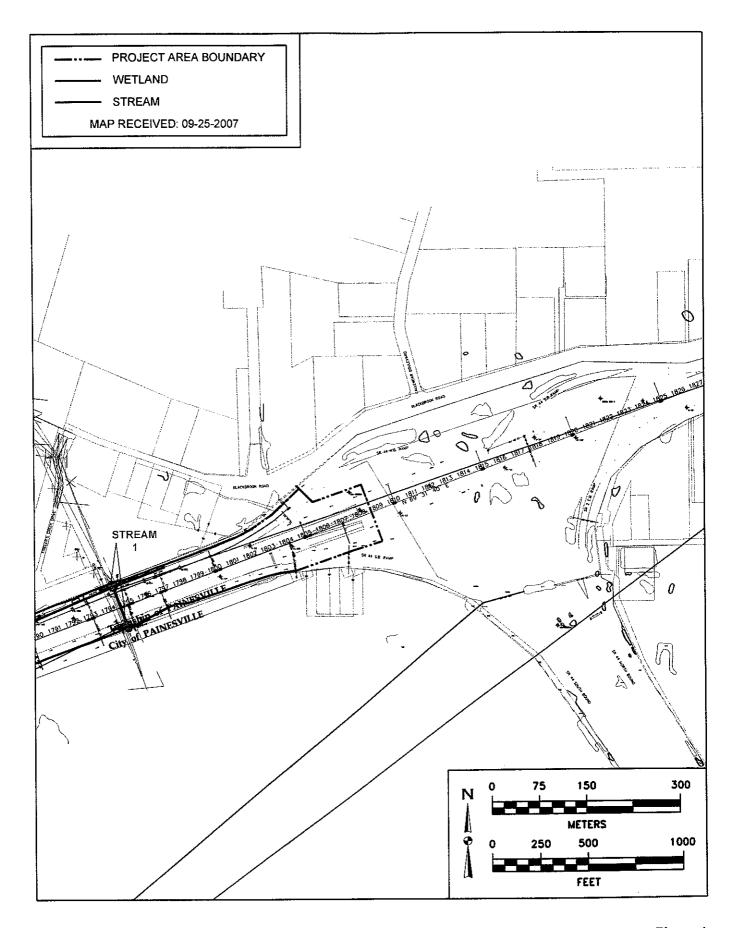
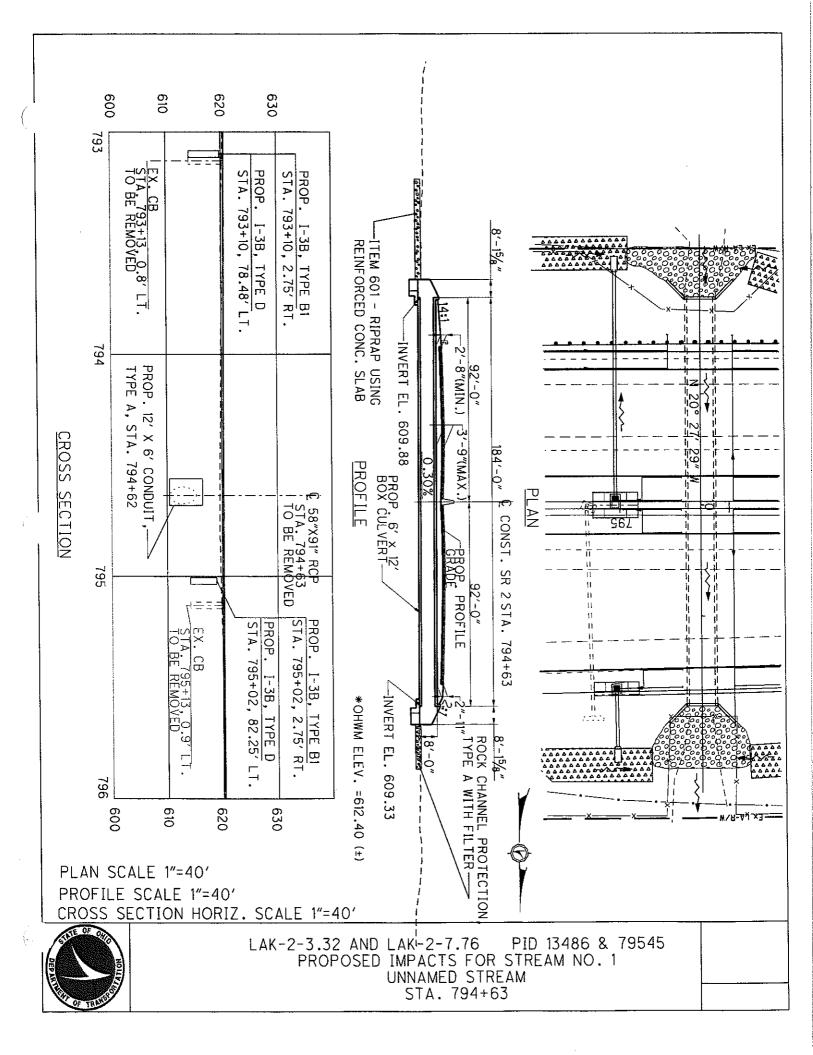
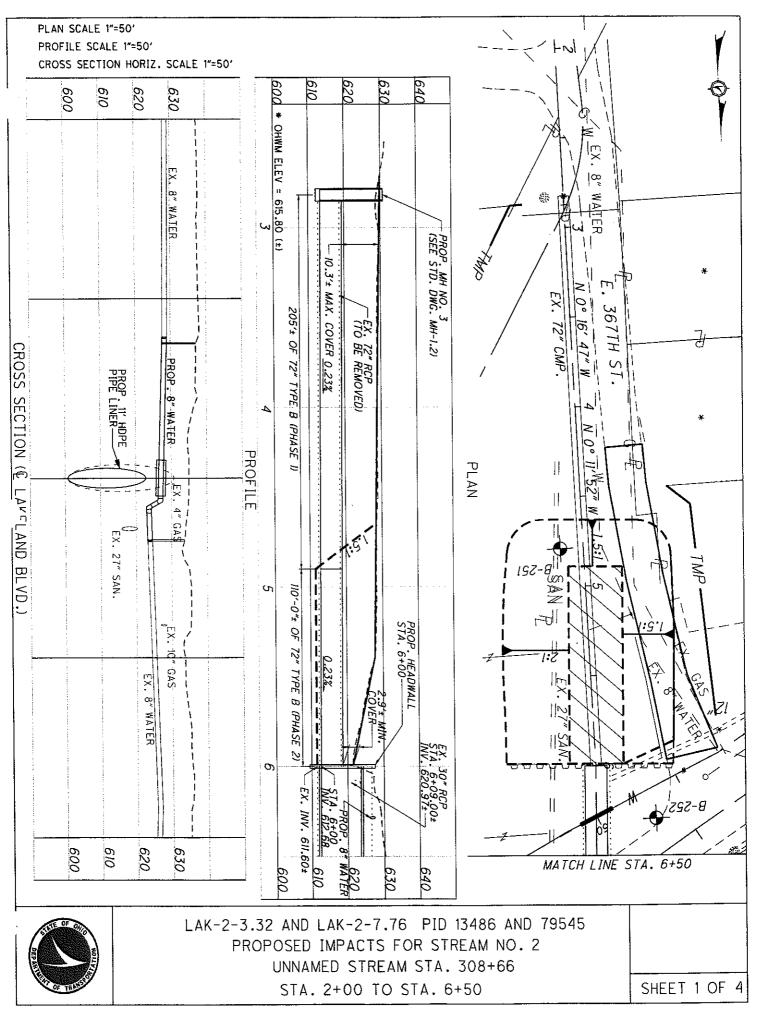
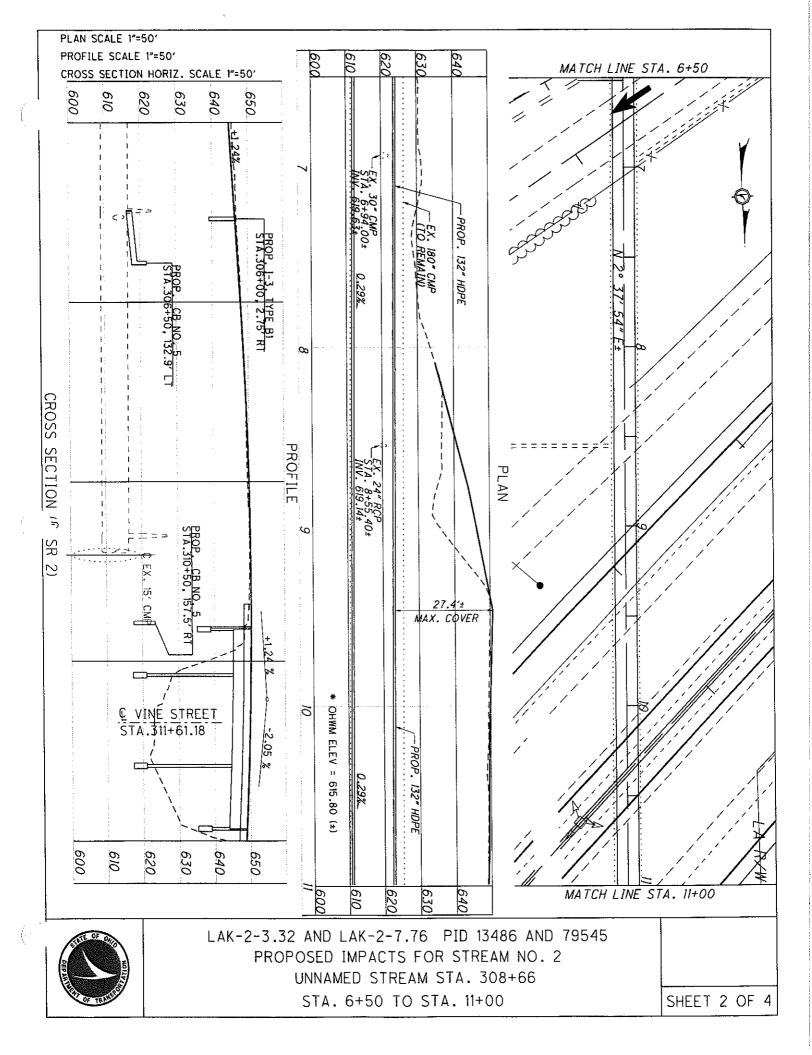


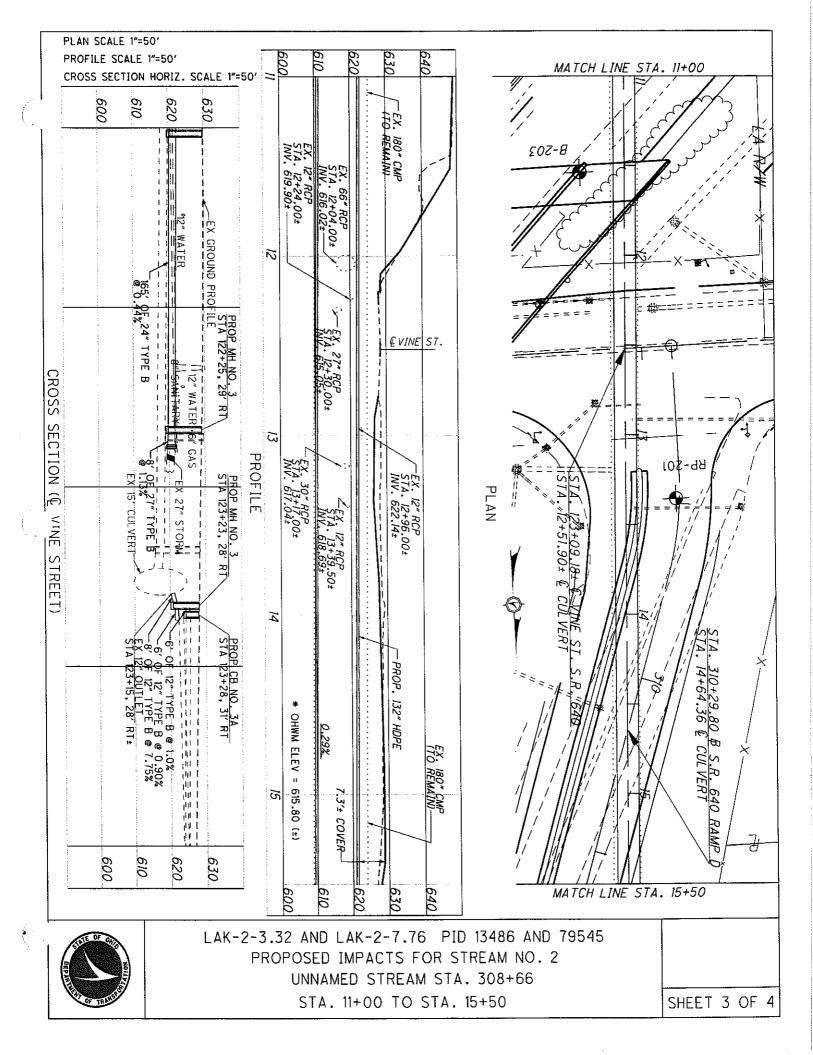
Figure 4 Sheet 14 of 14 Figure 6. Plan views of stream and wetland crossings.

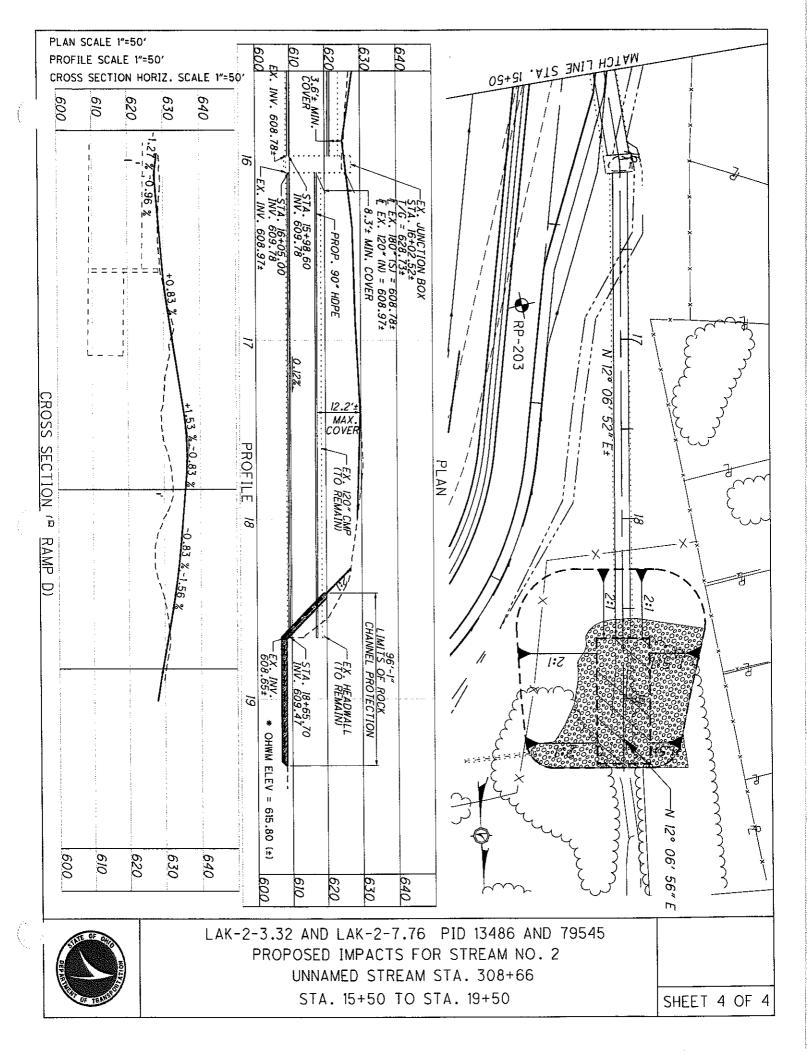
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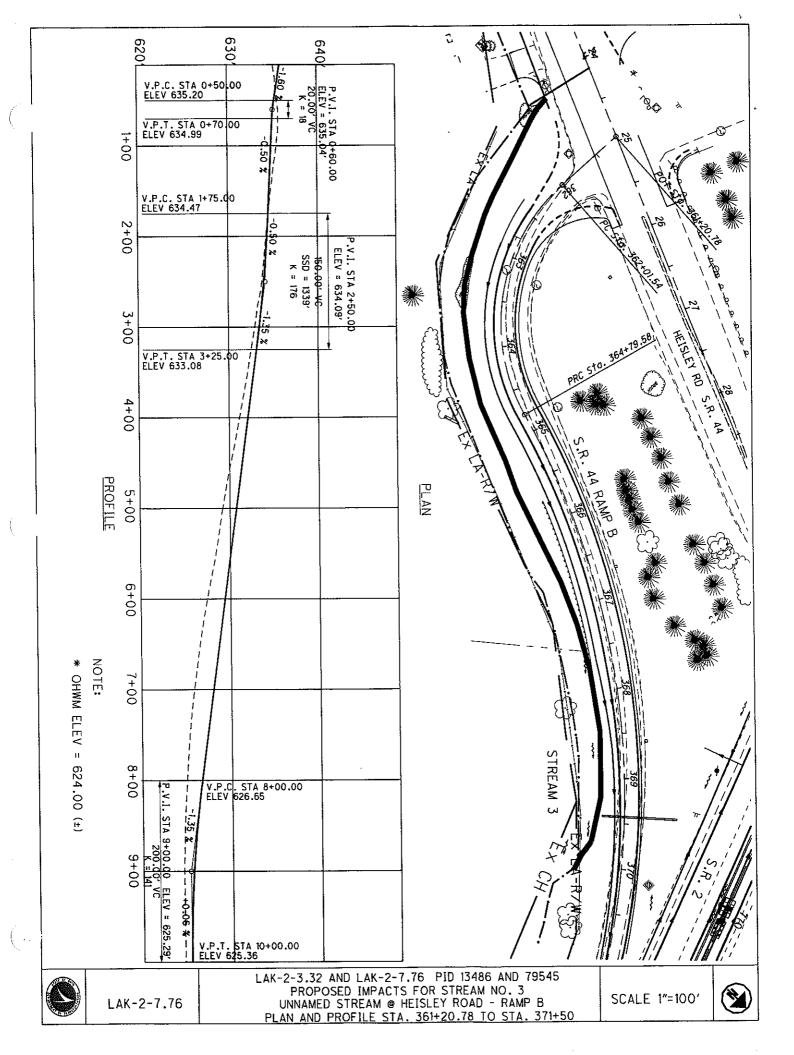


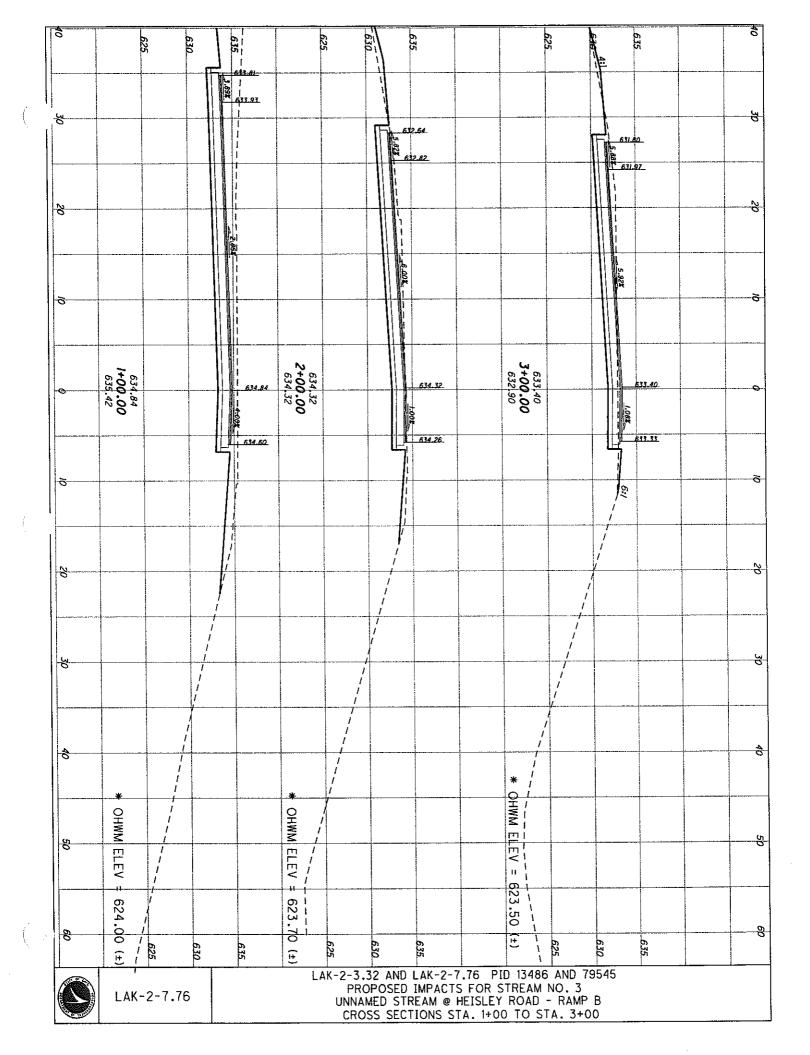


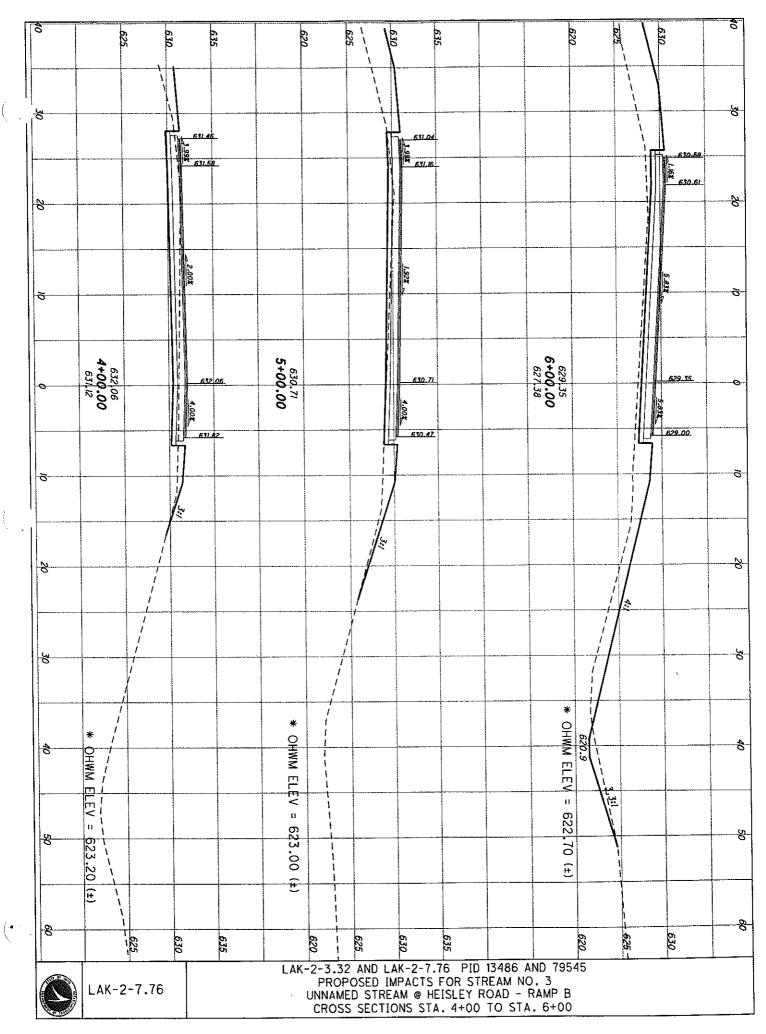




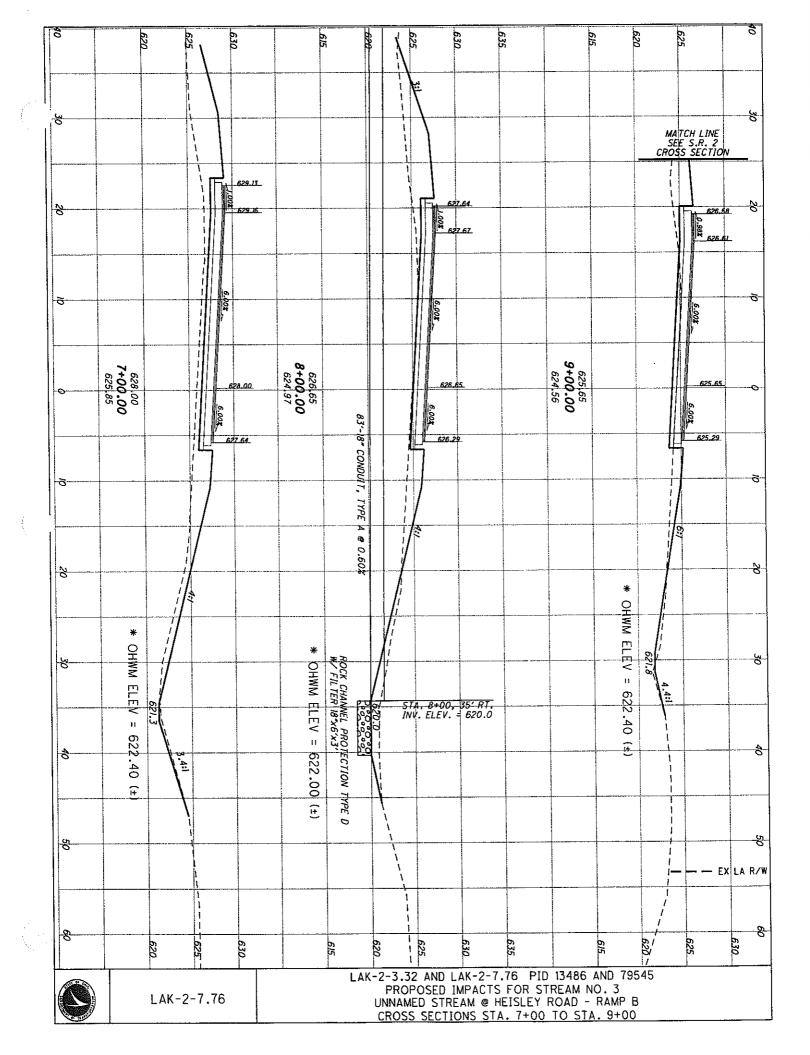


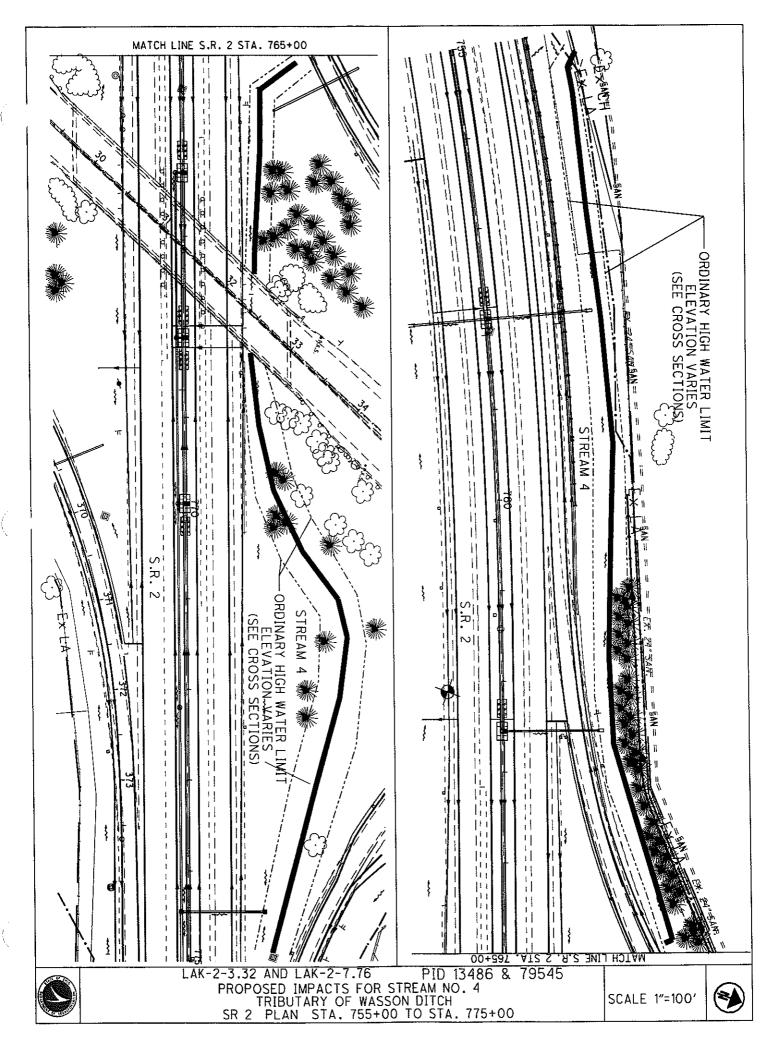




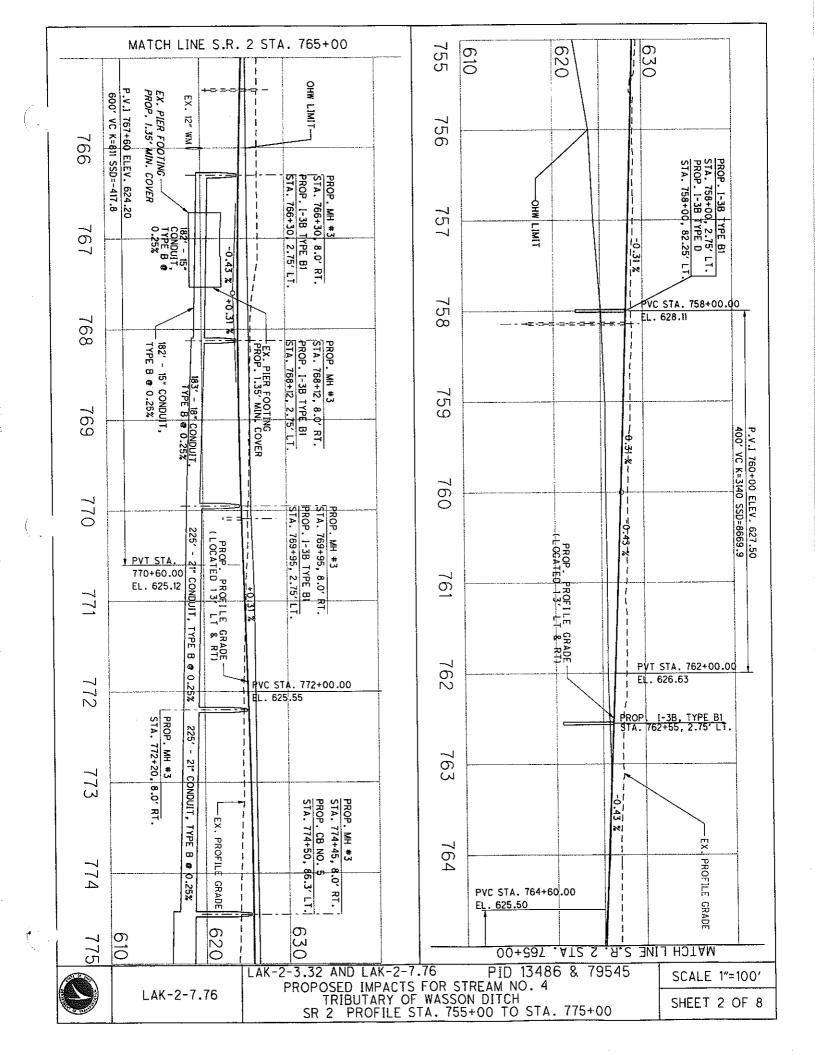


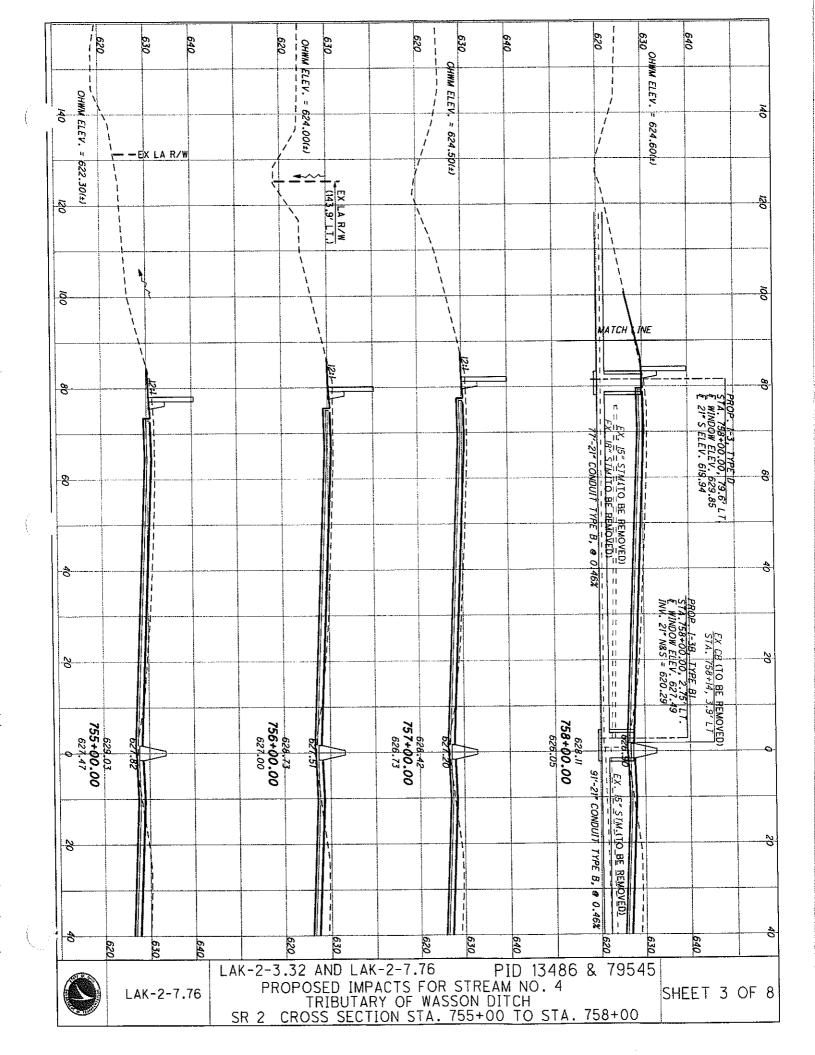
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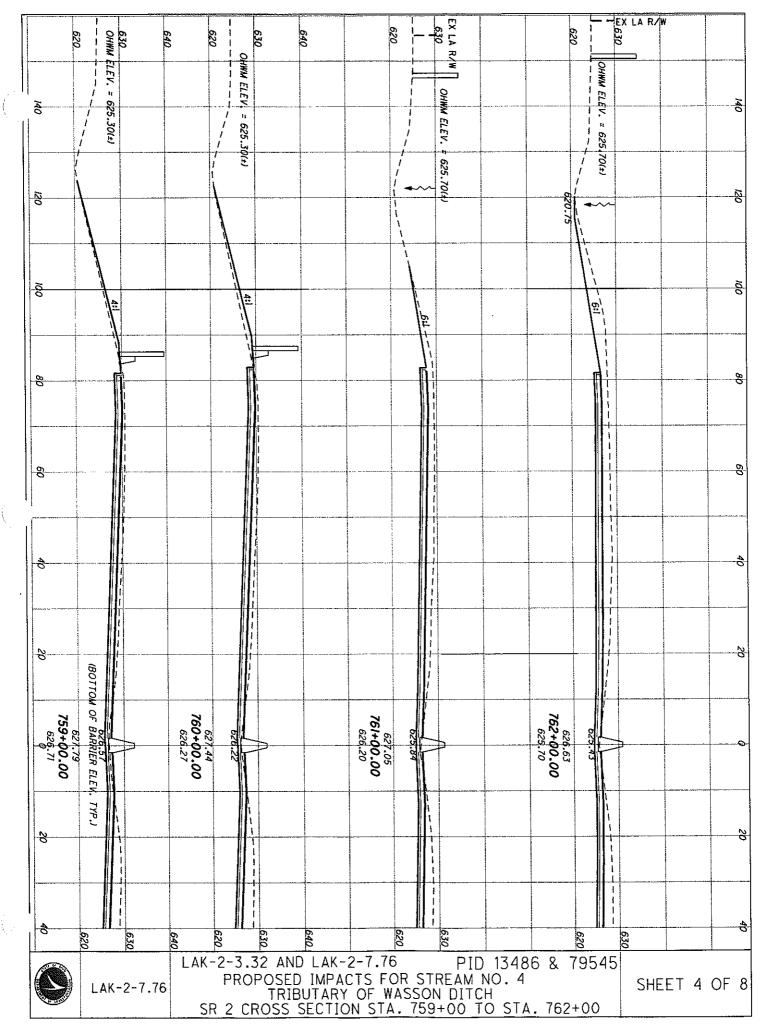




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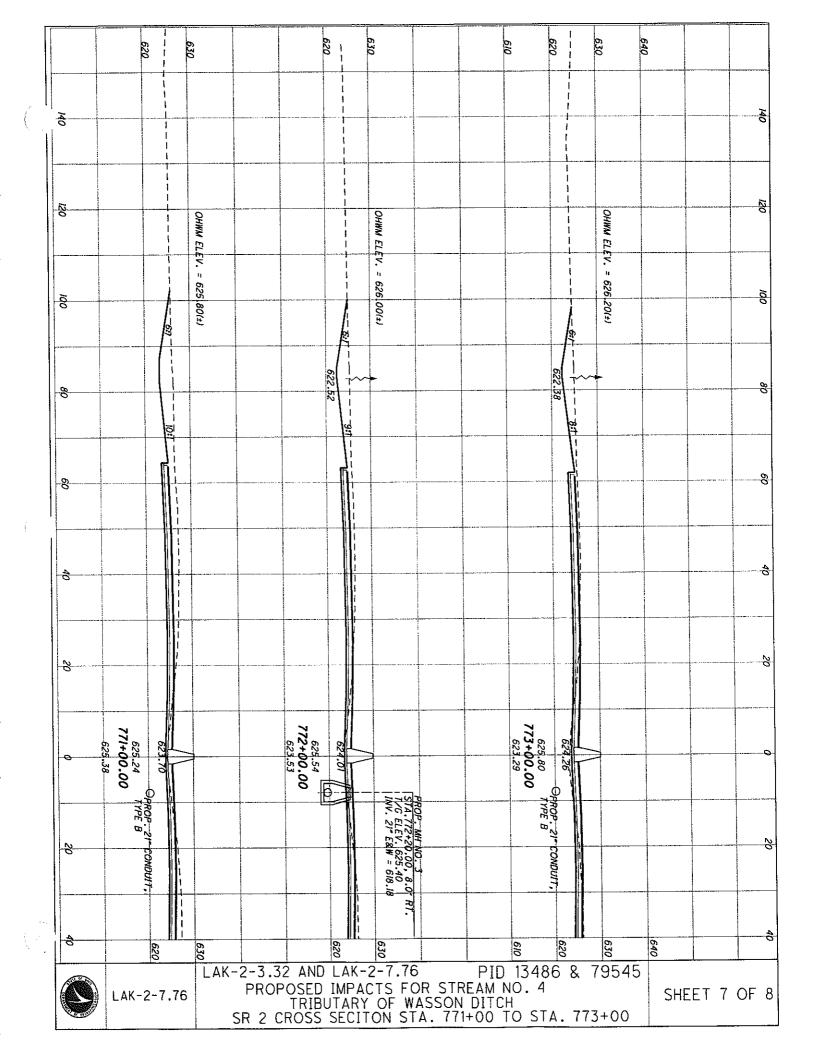


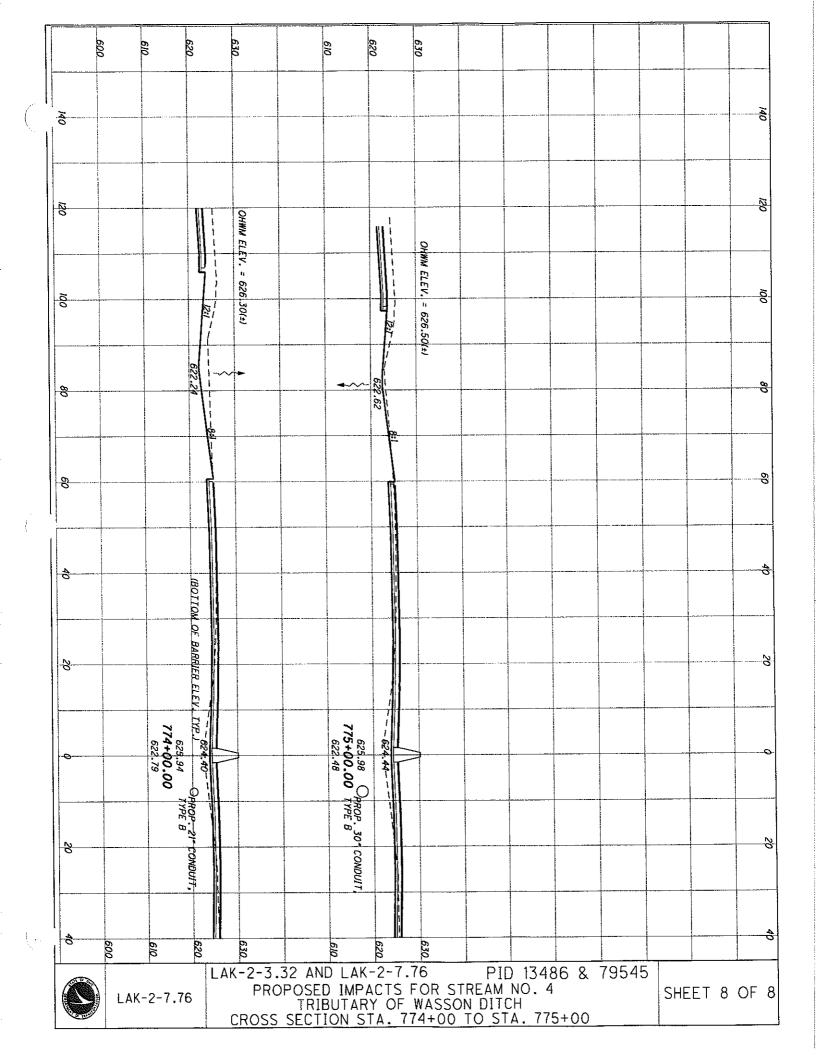
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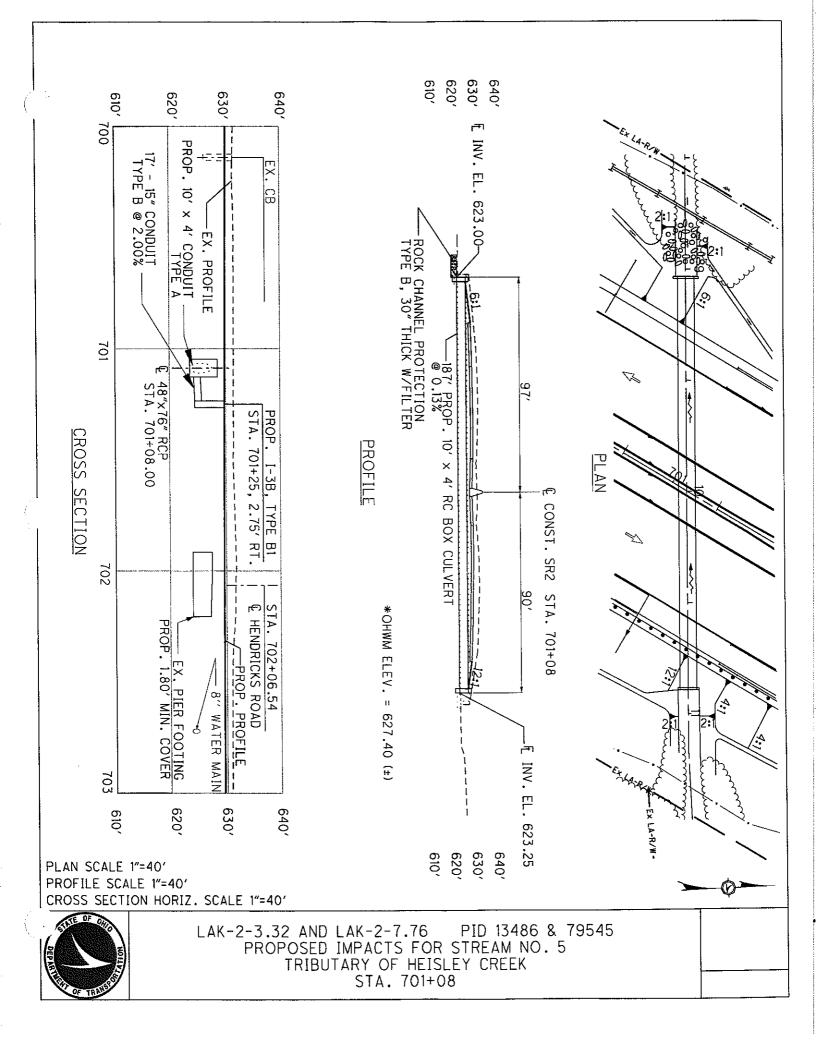
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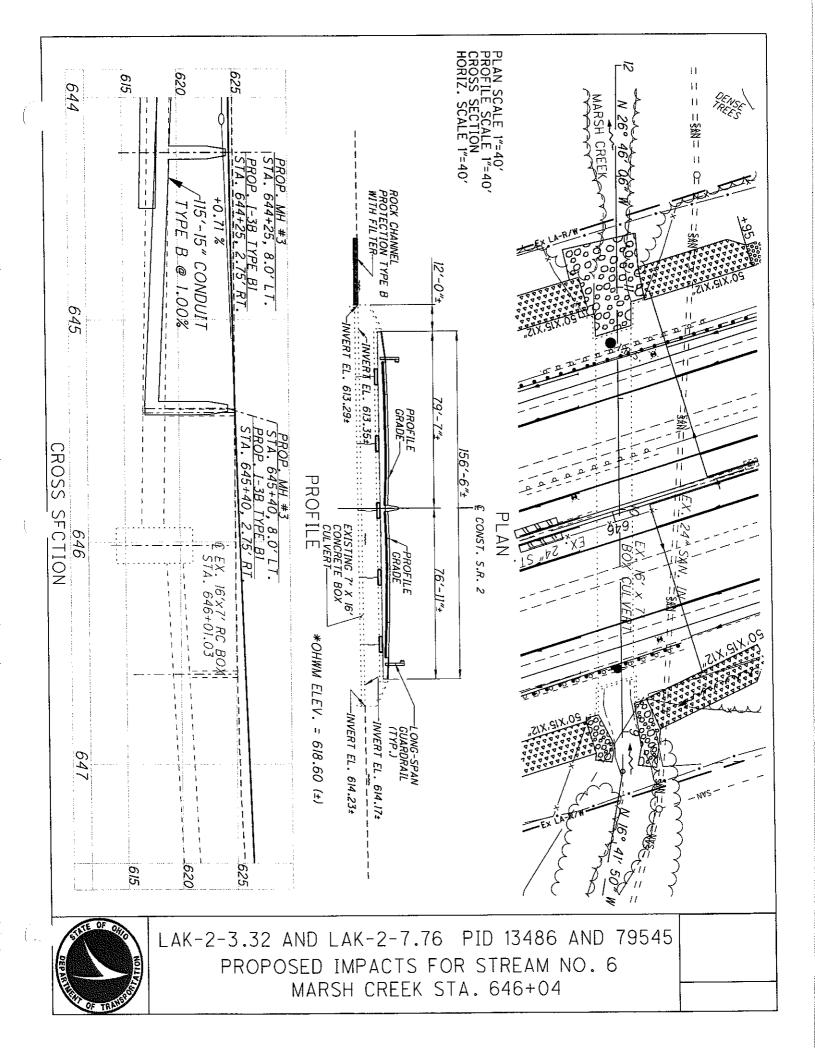
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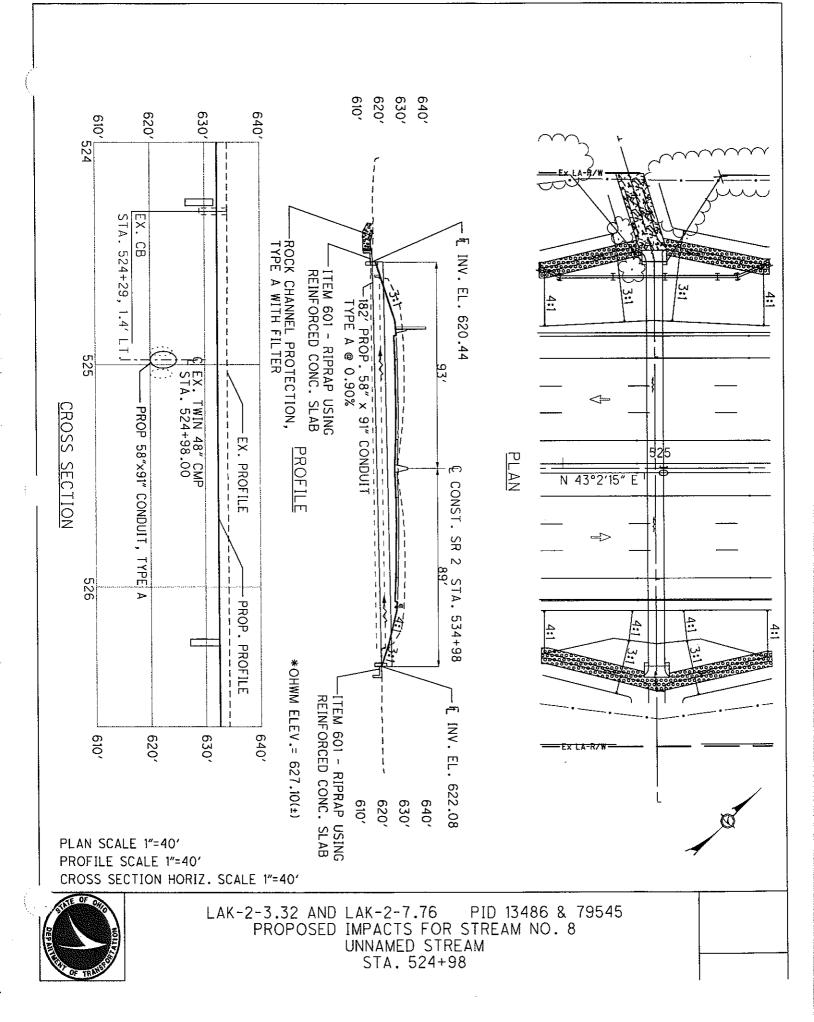
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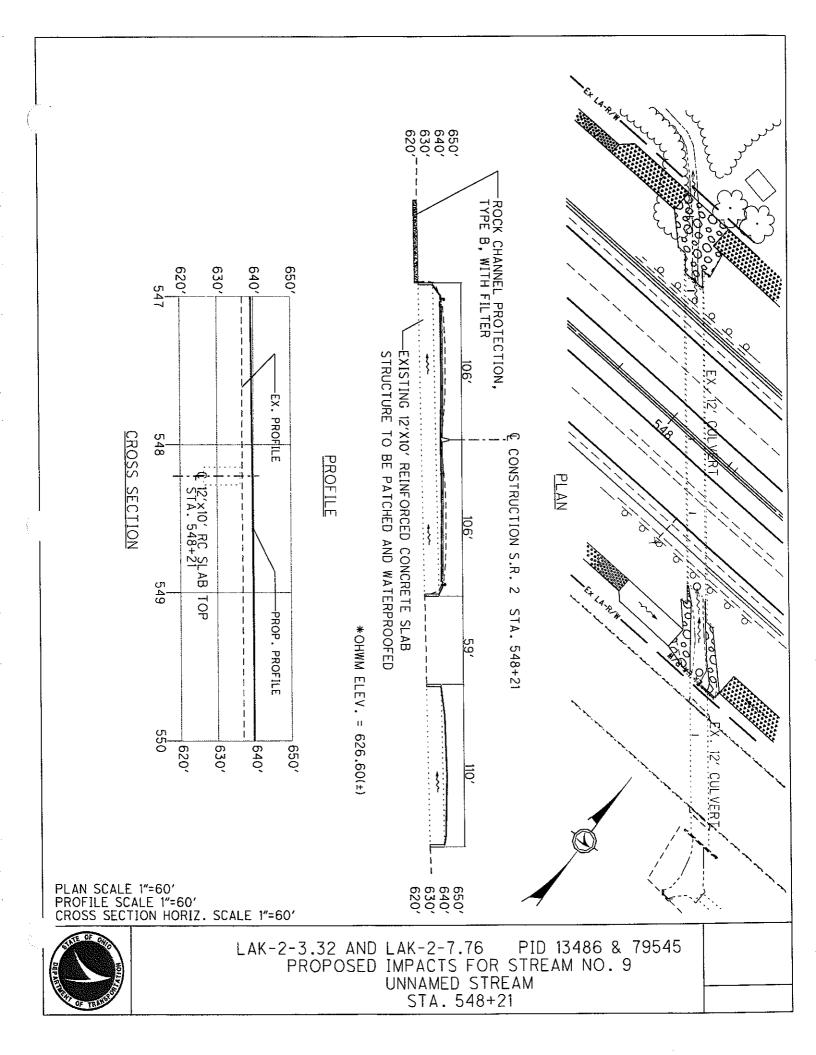


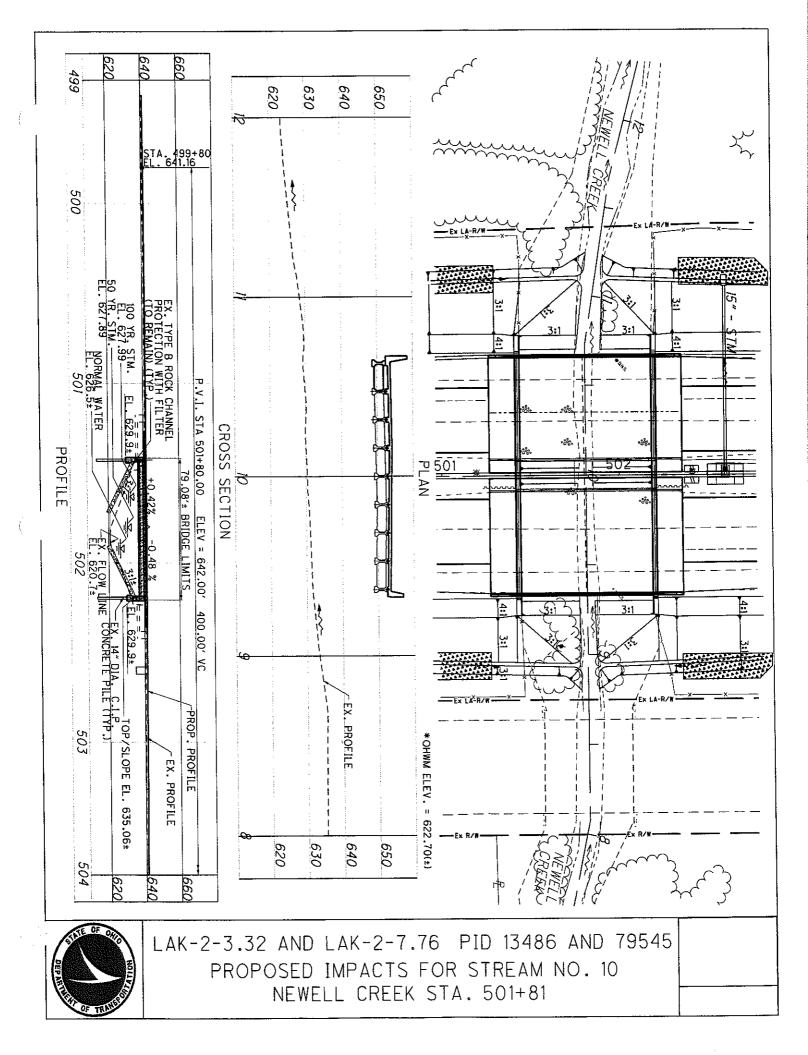


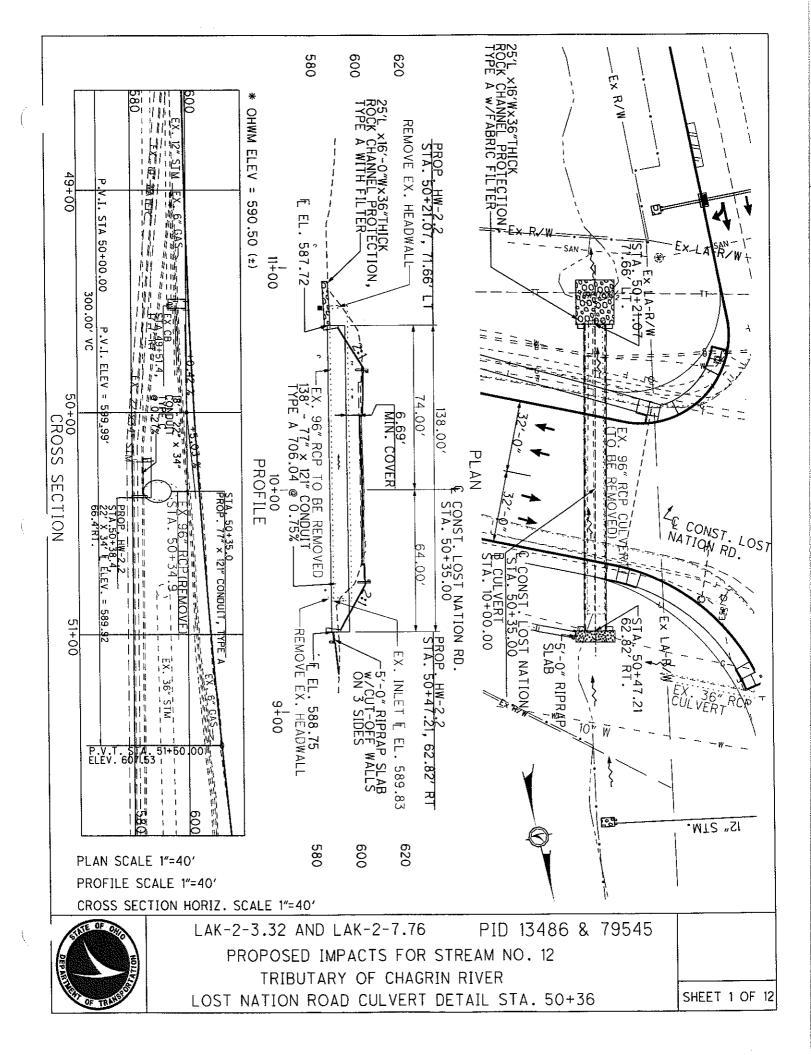


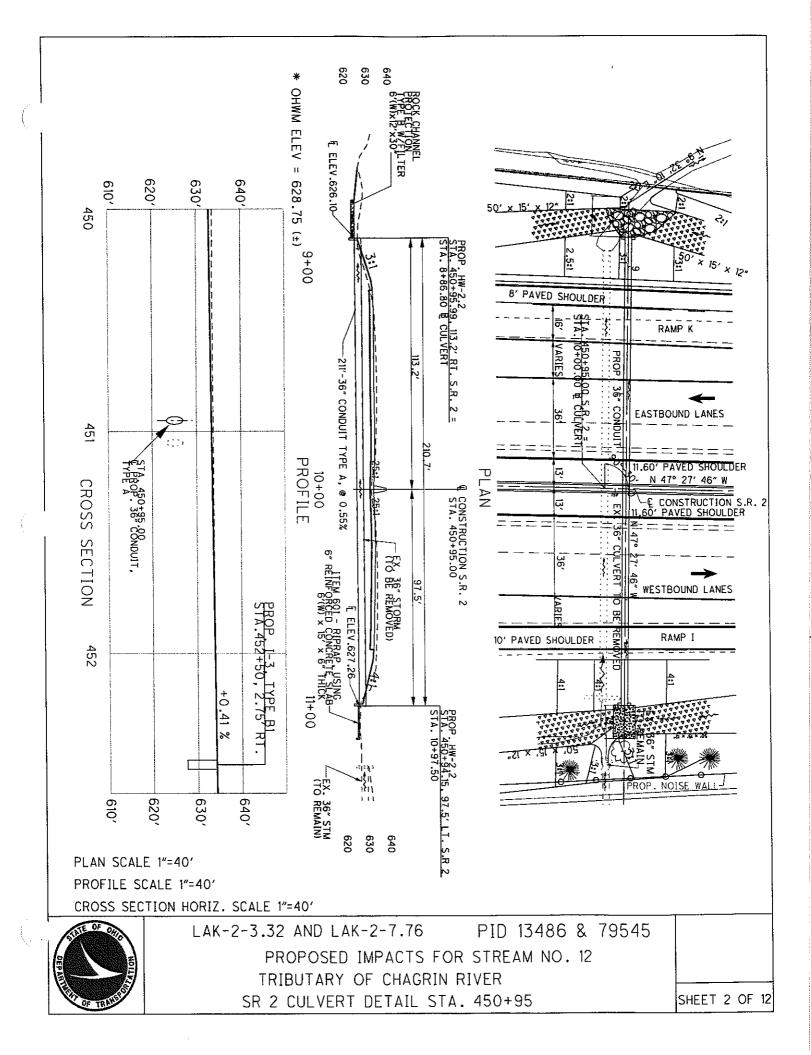


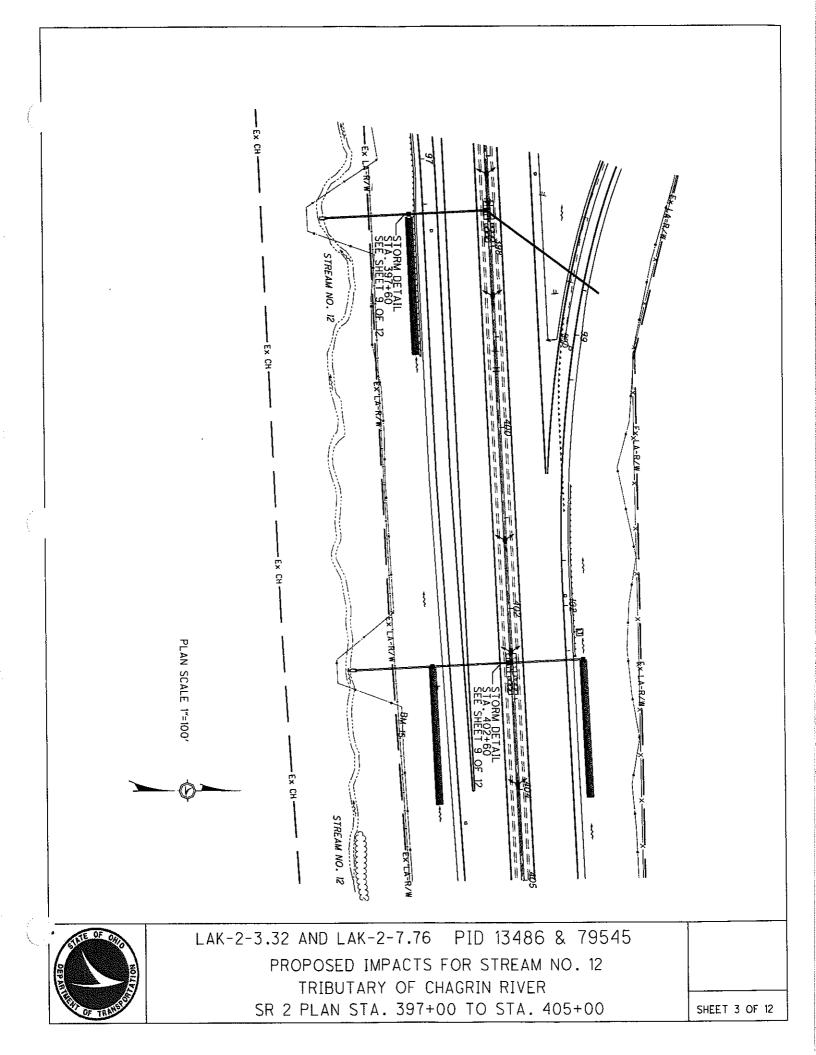


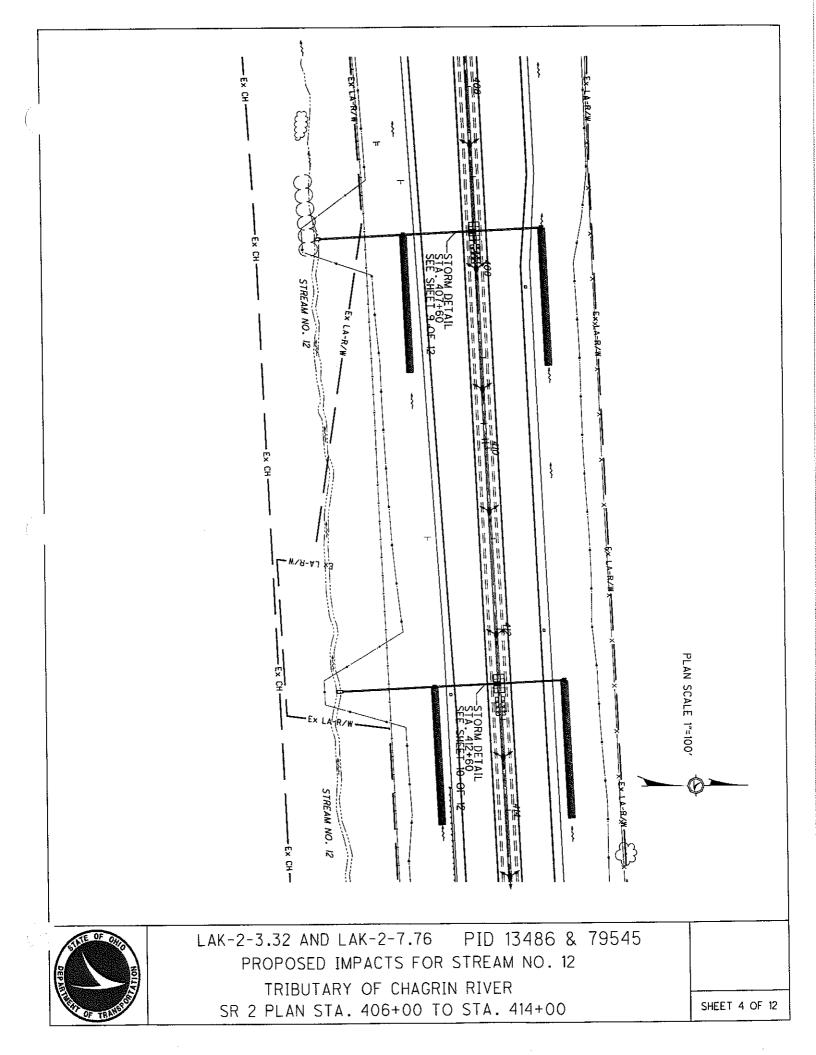


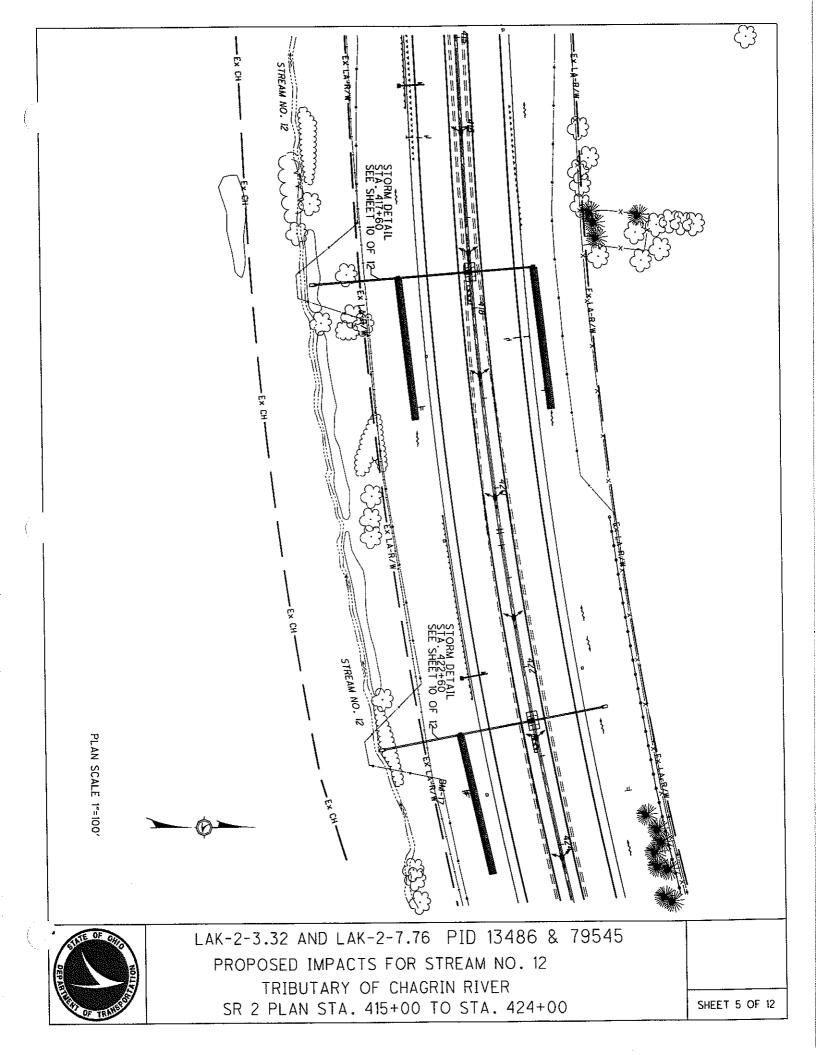


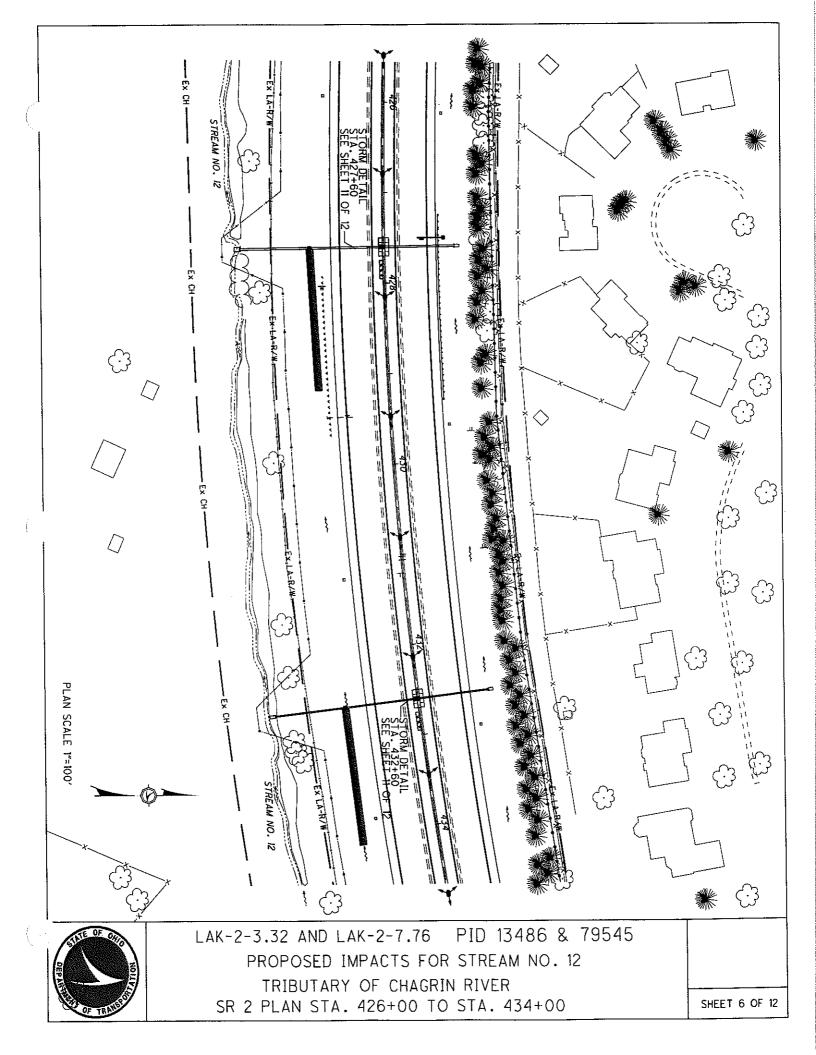


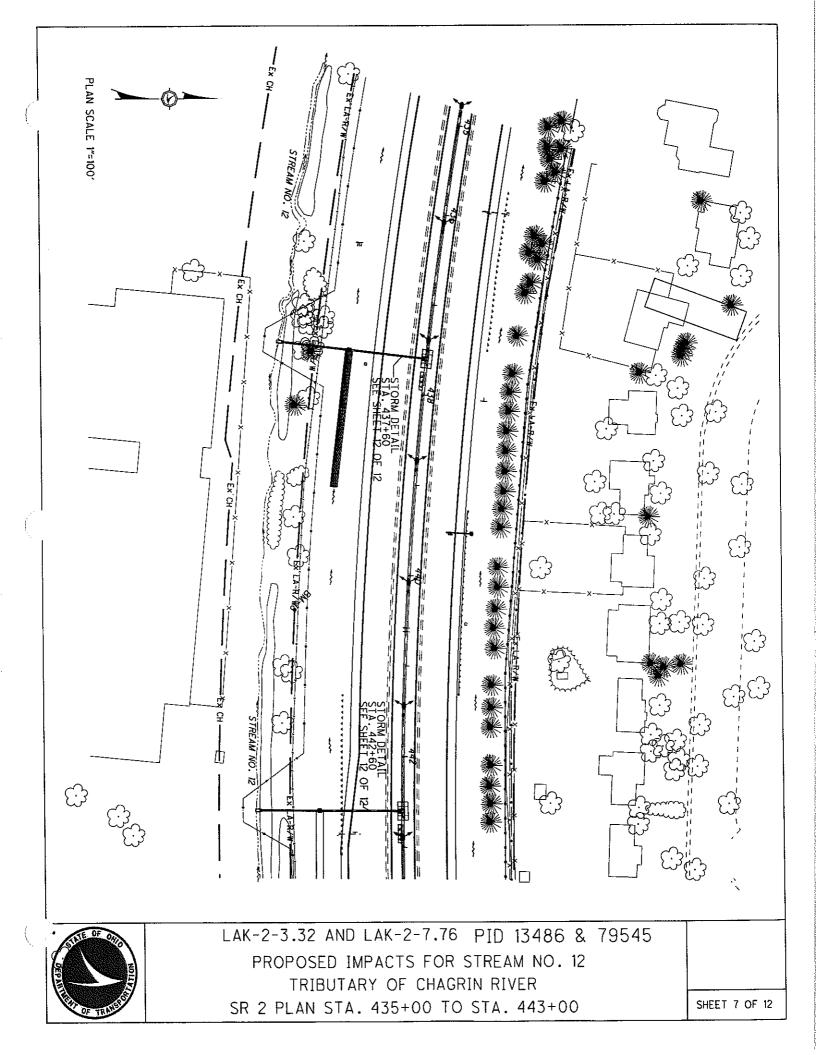


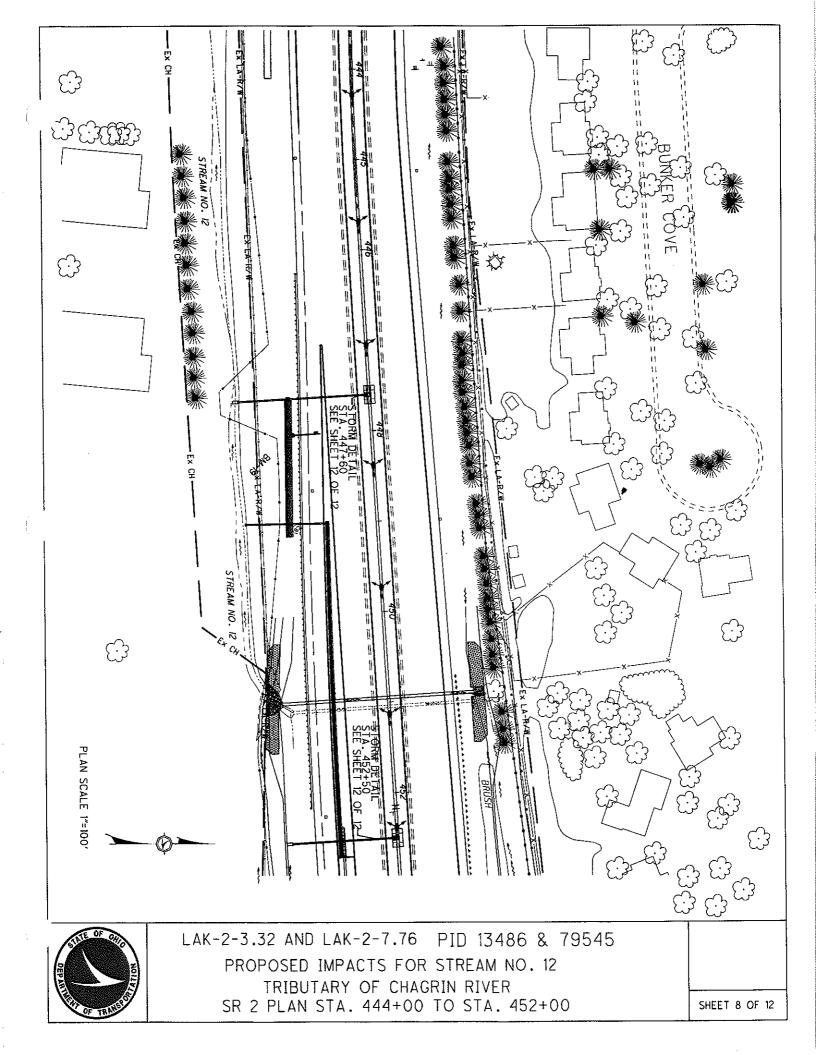


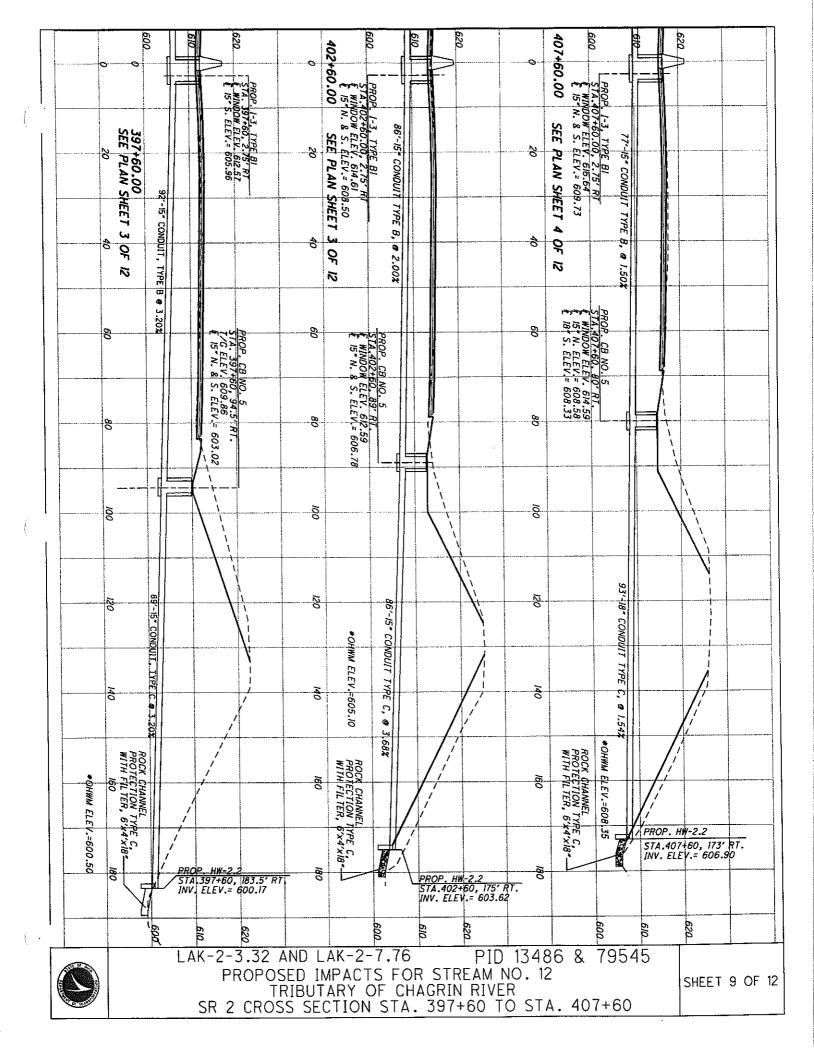


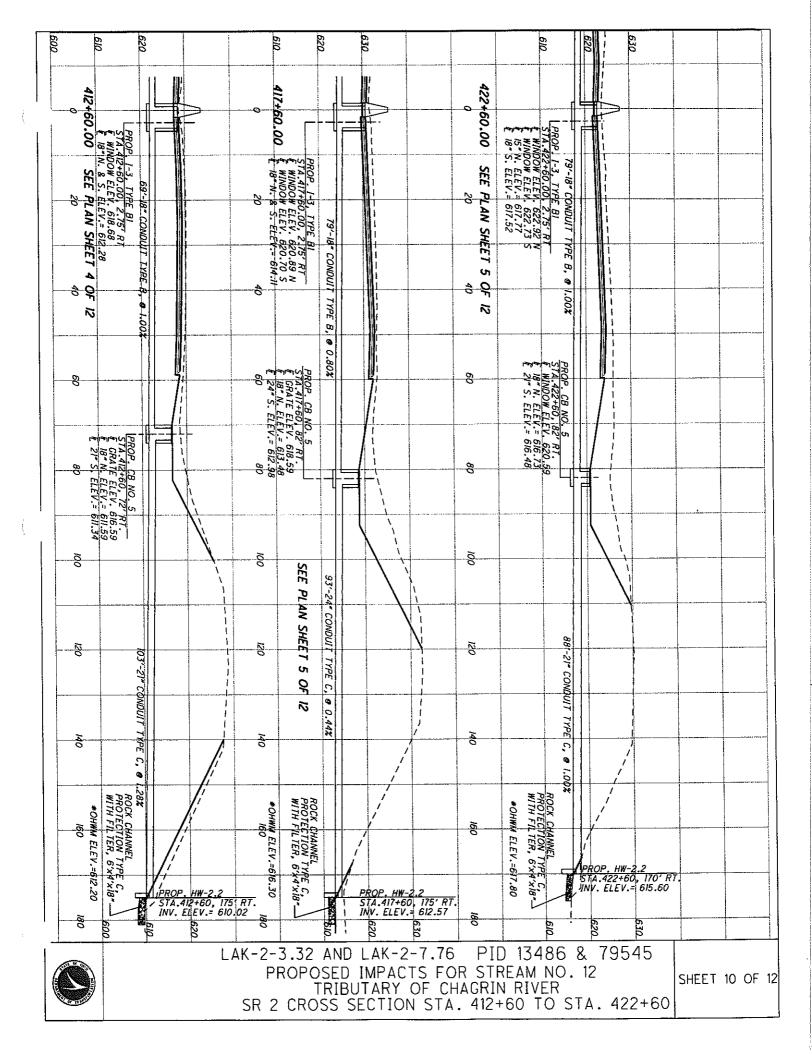


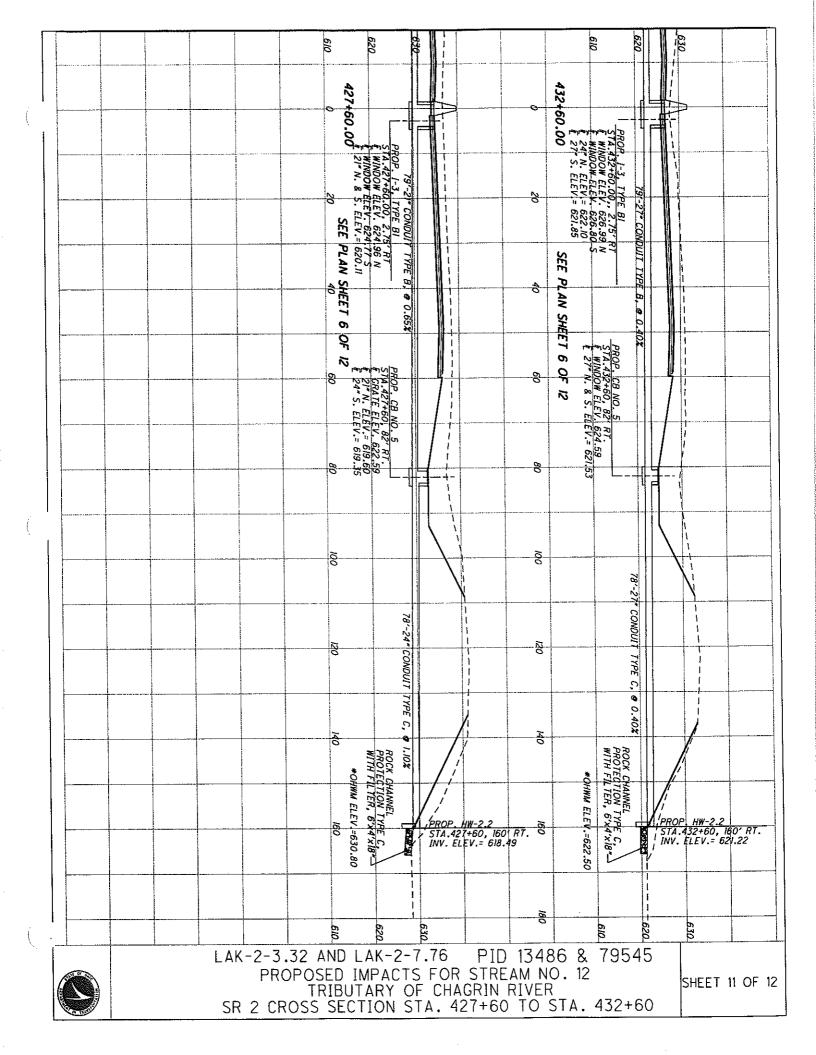


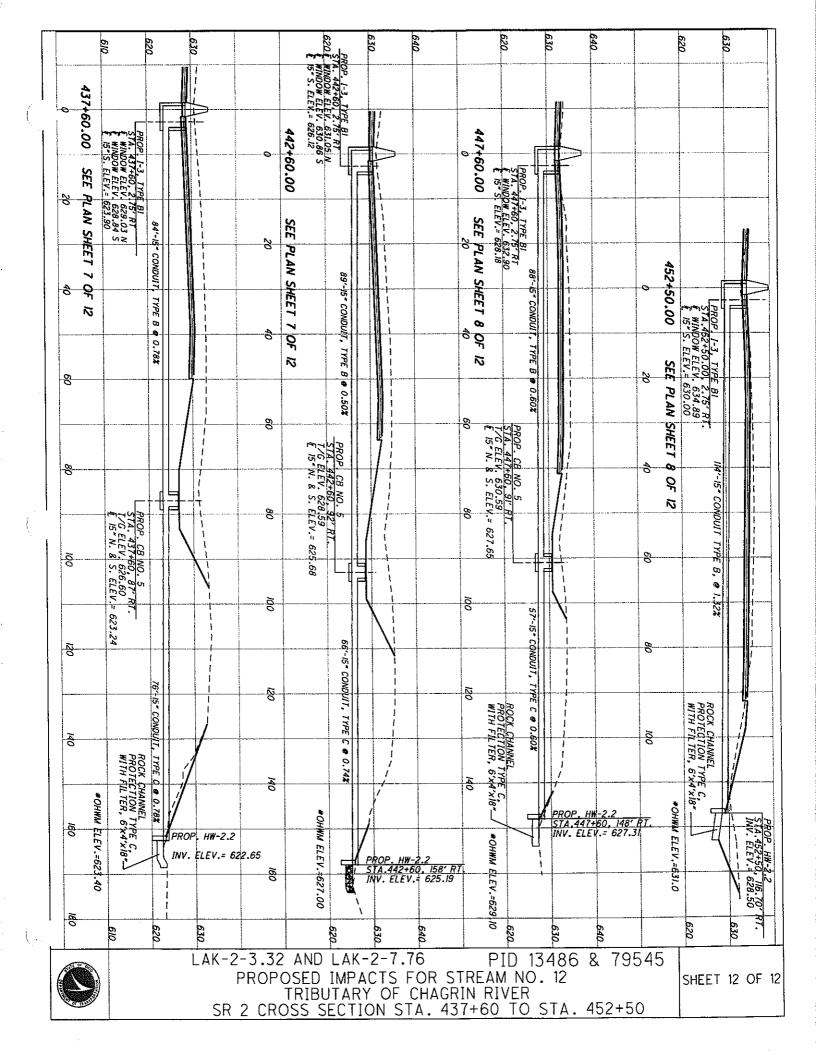


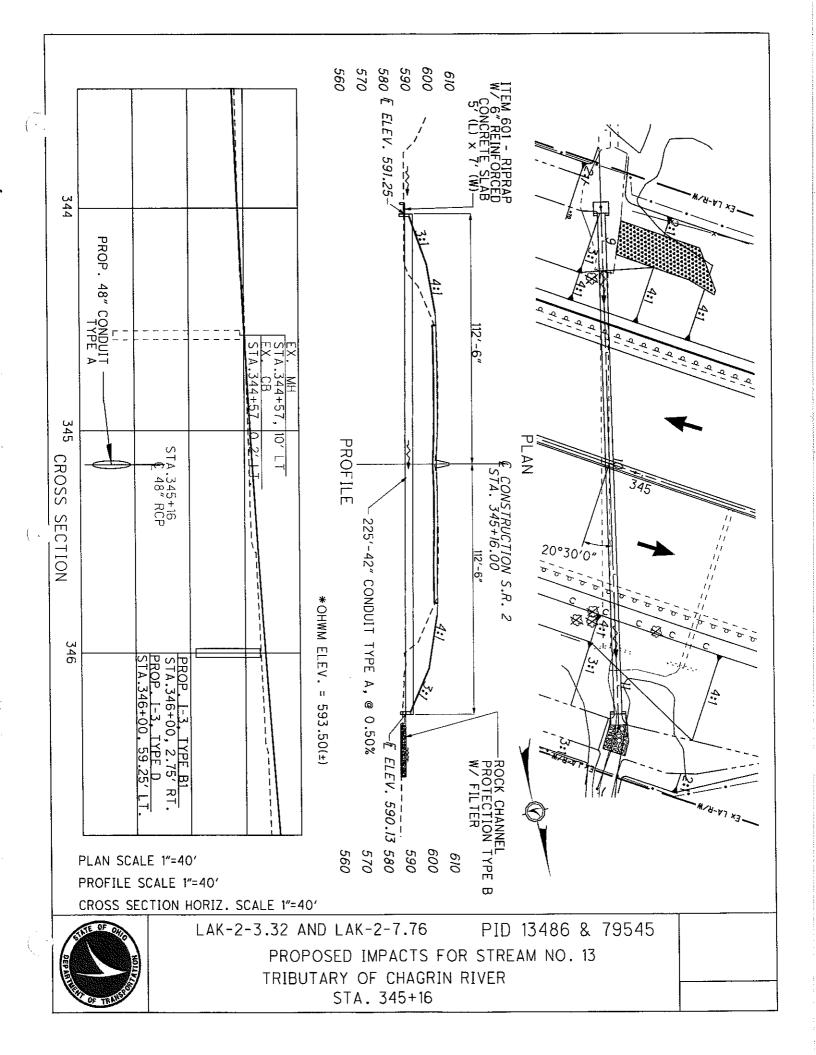


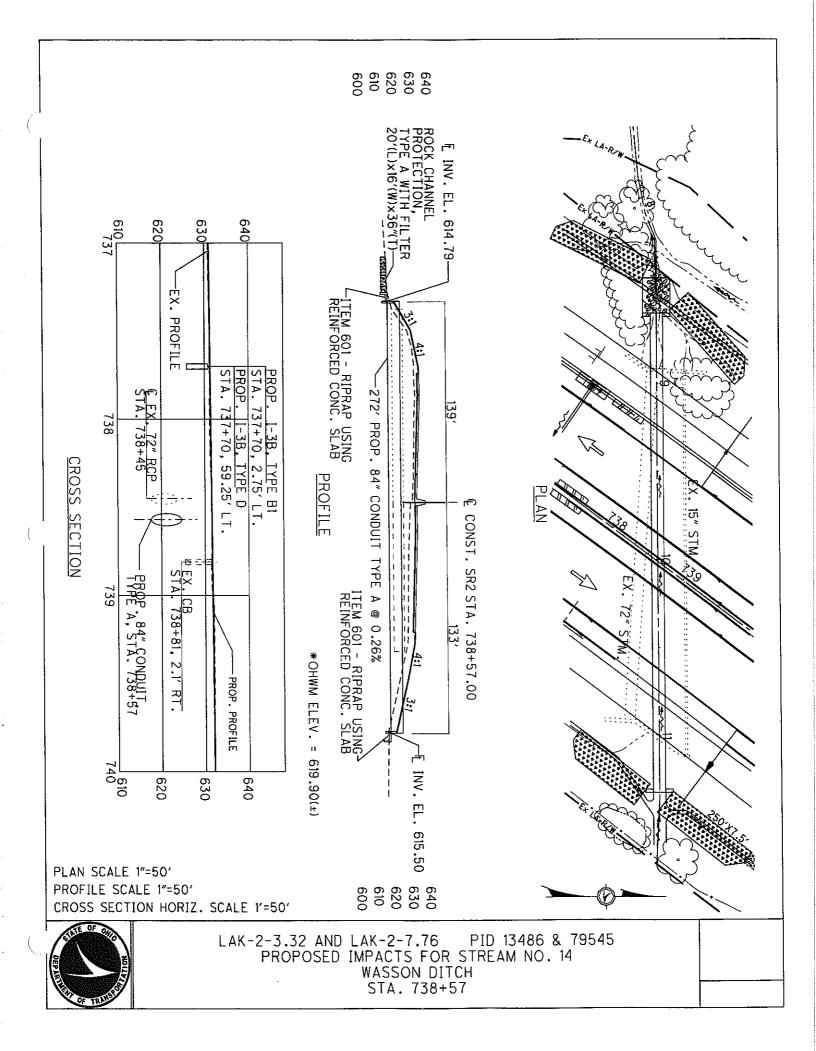


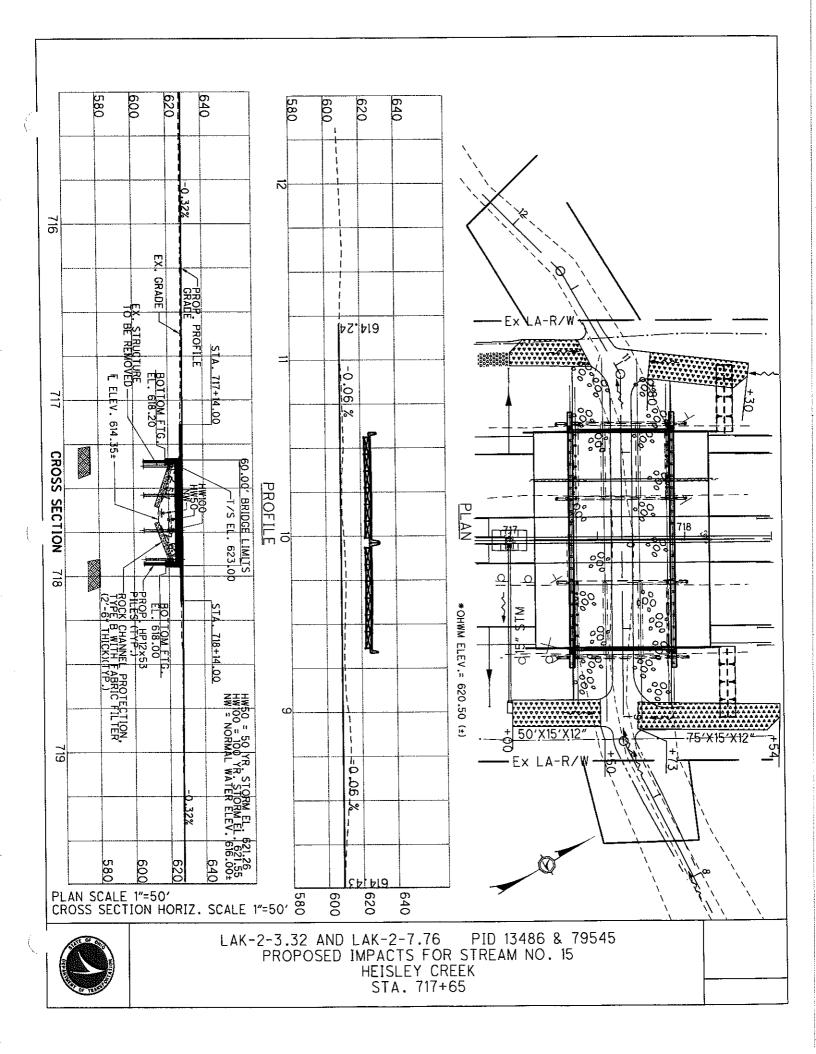


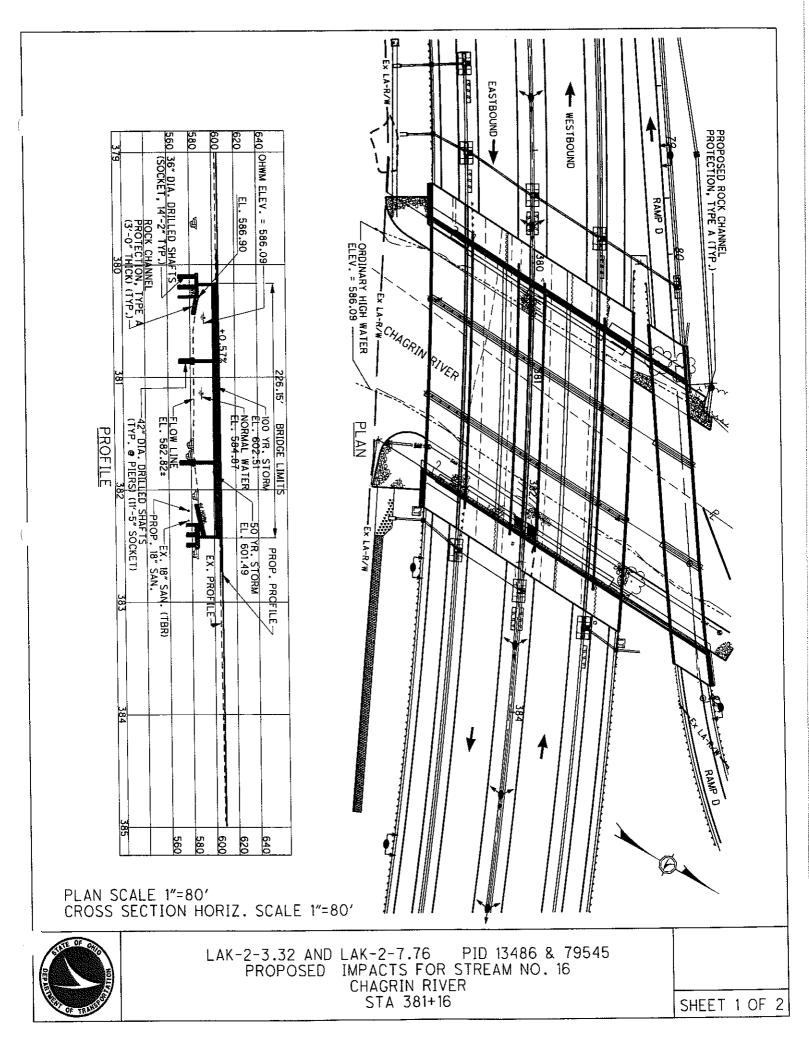


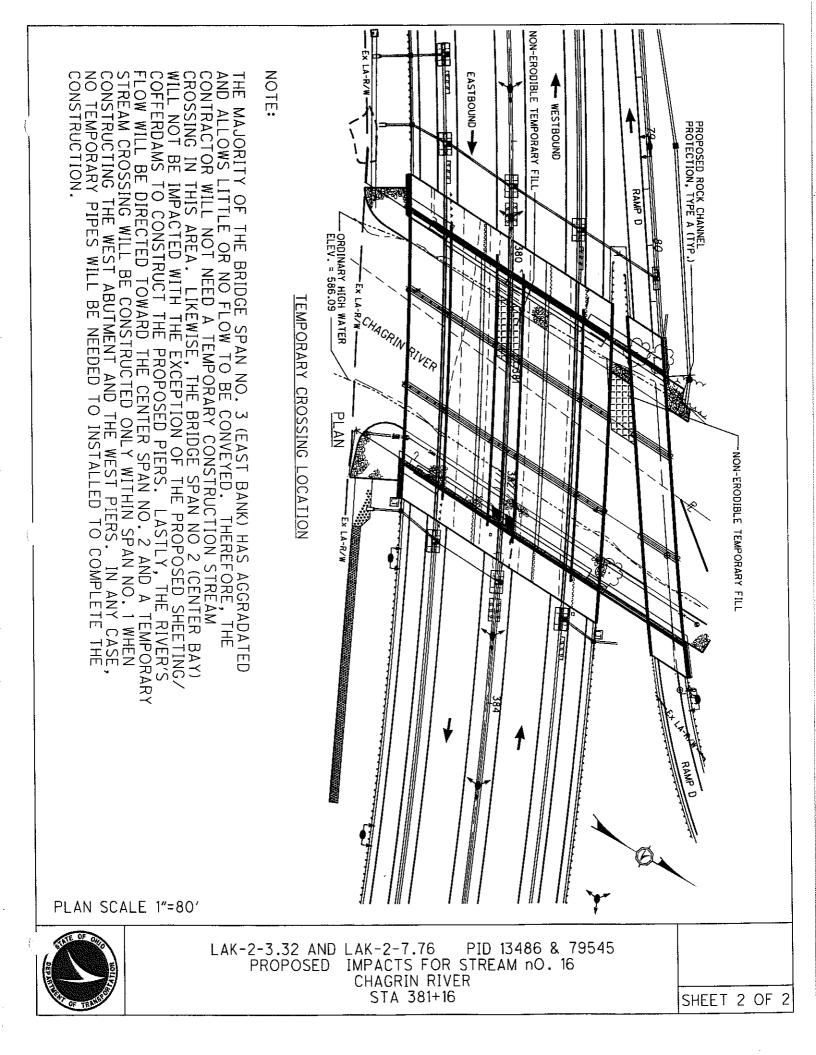


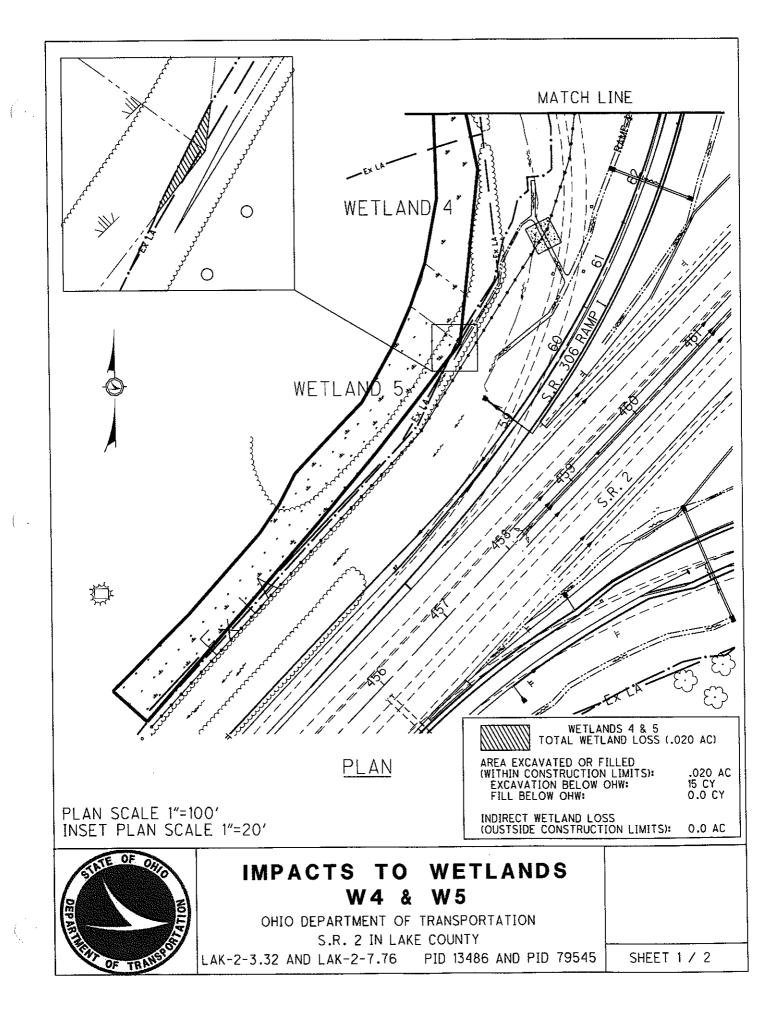


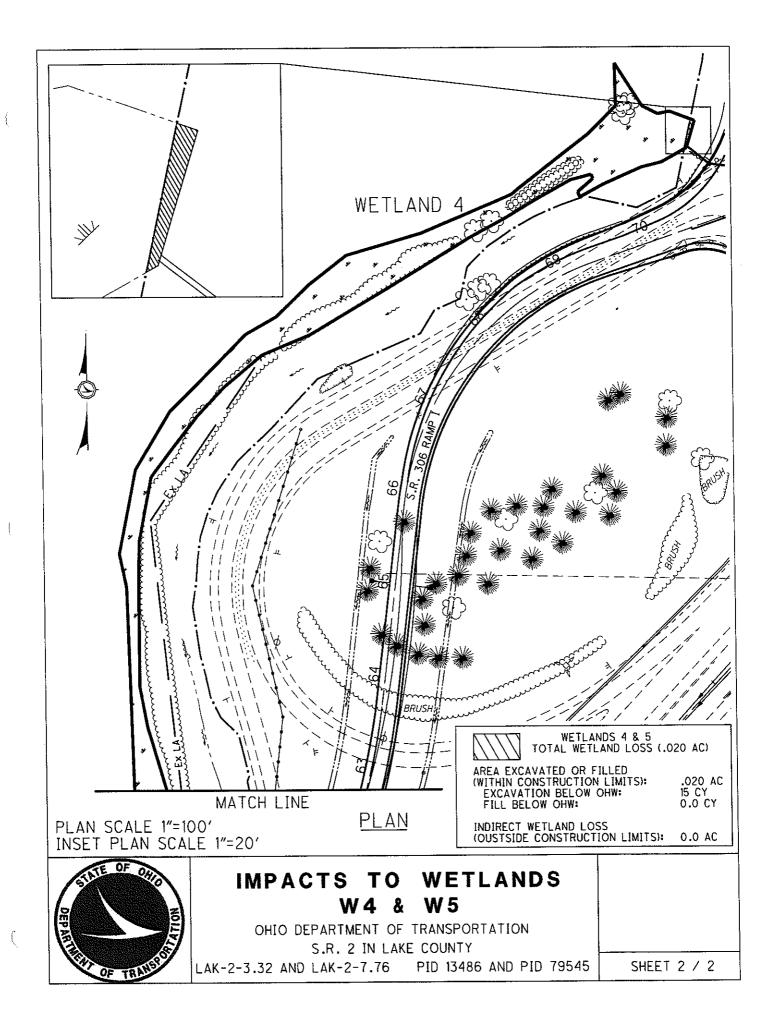


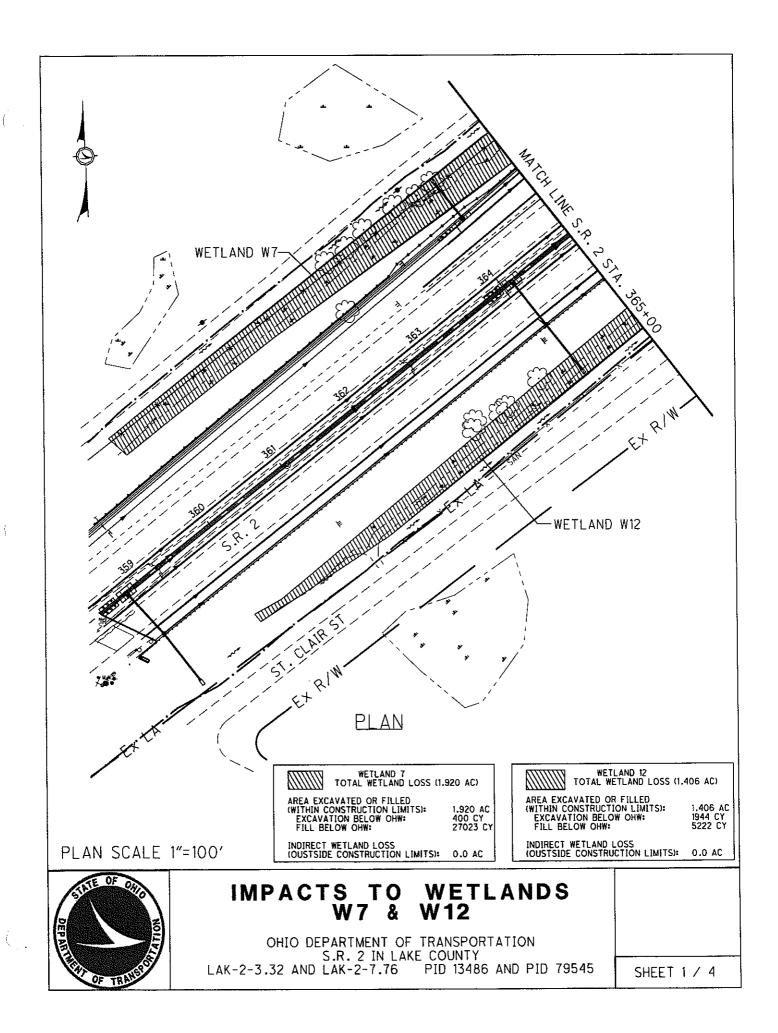


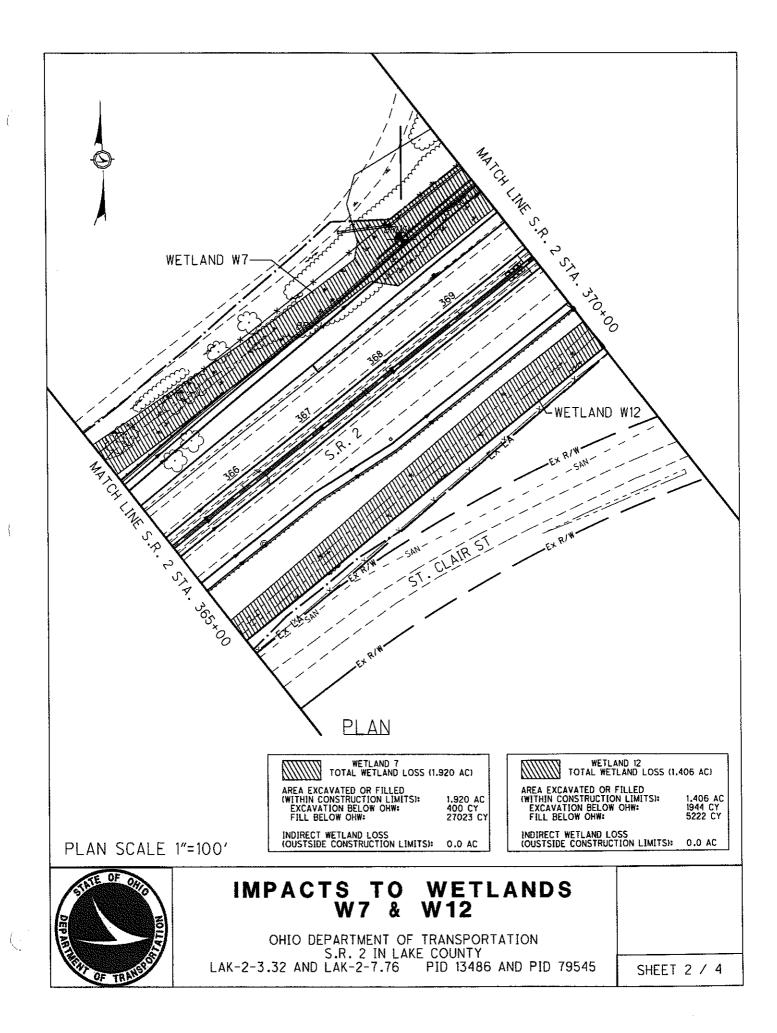


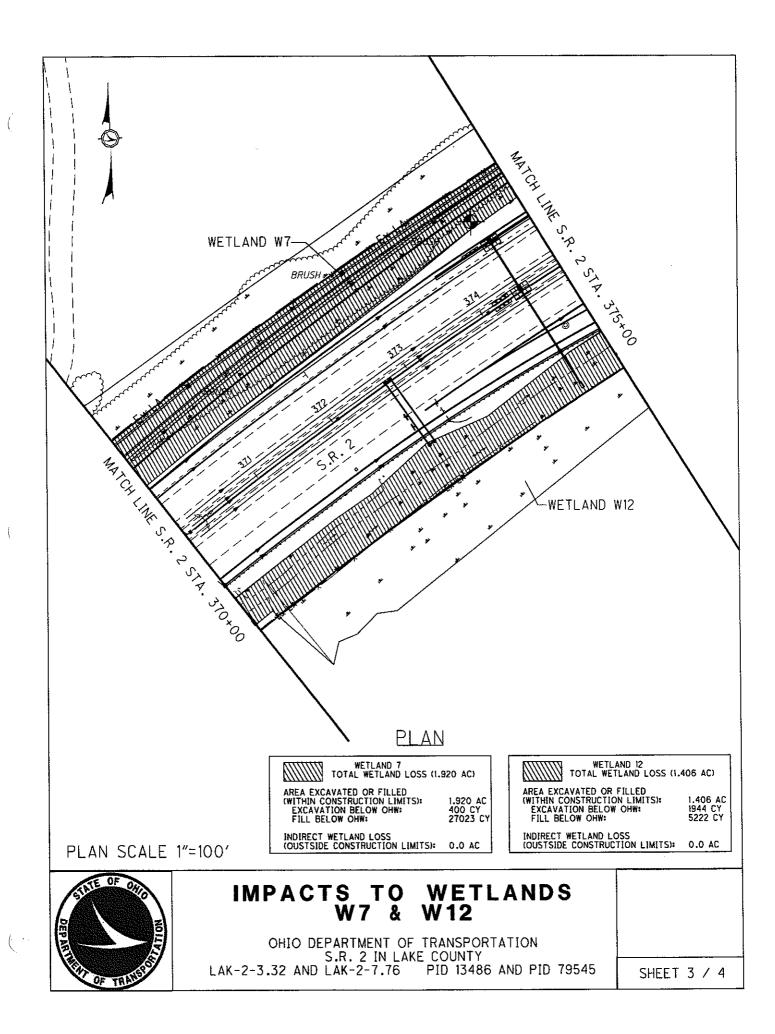


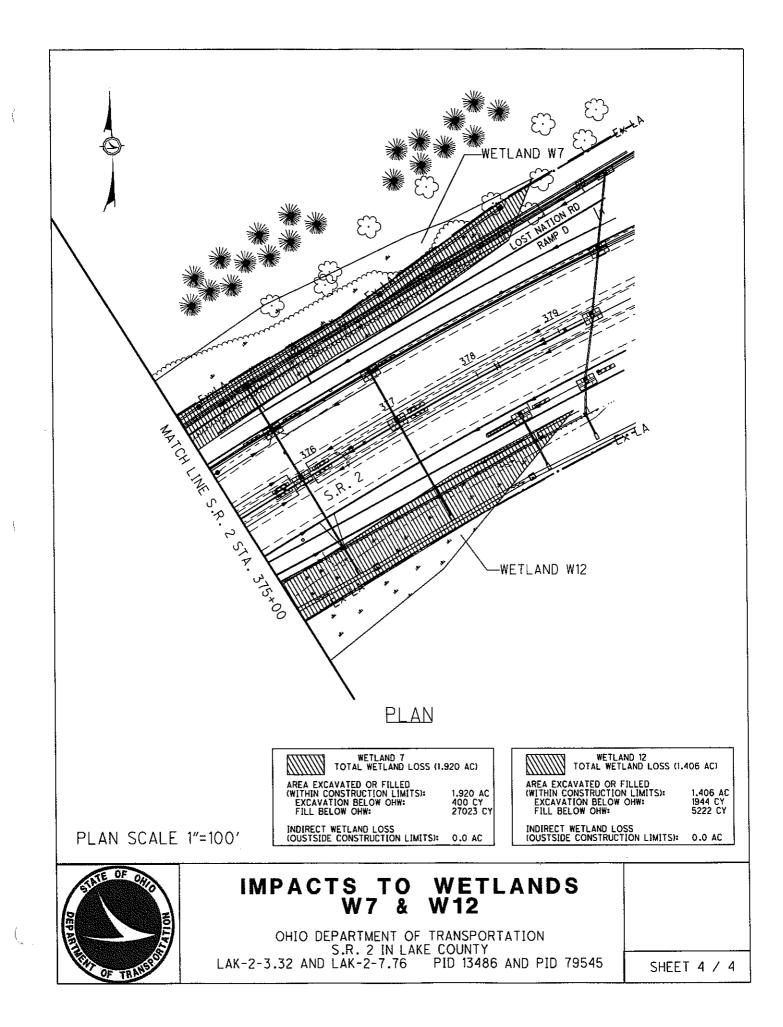


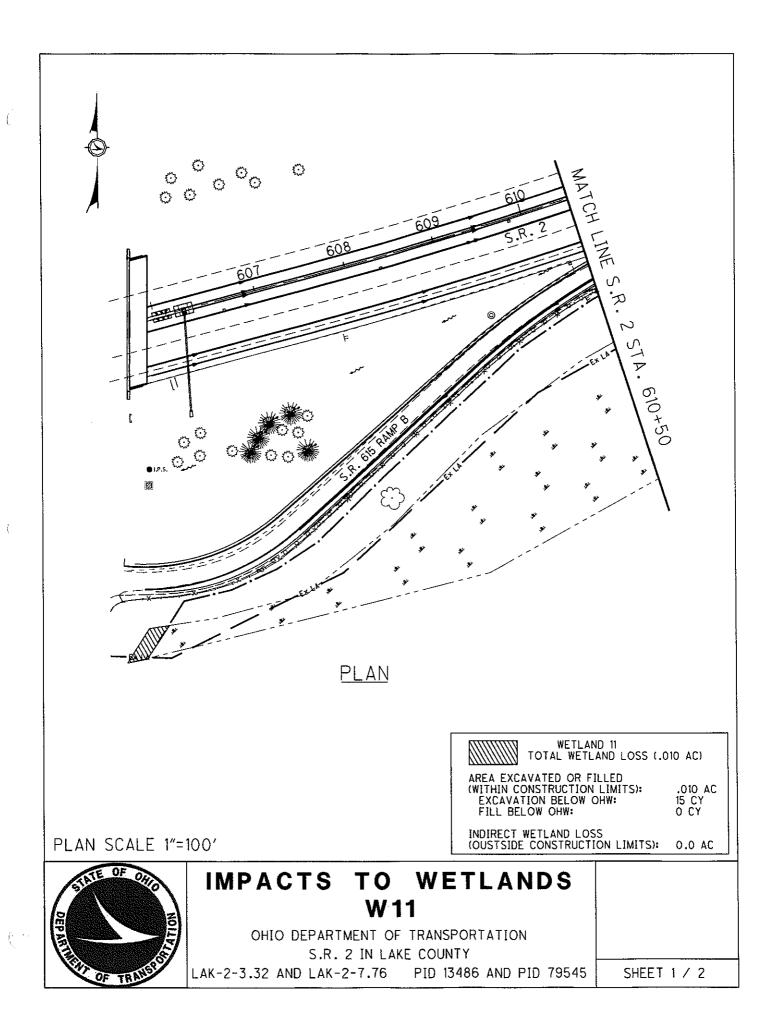


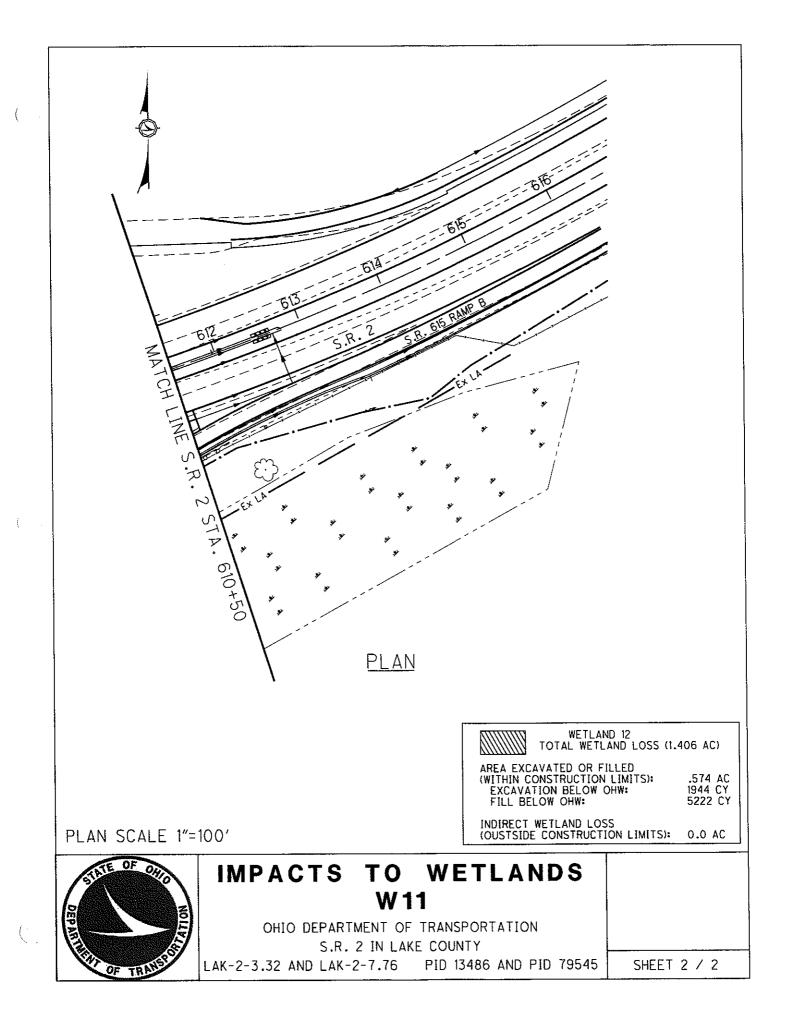


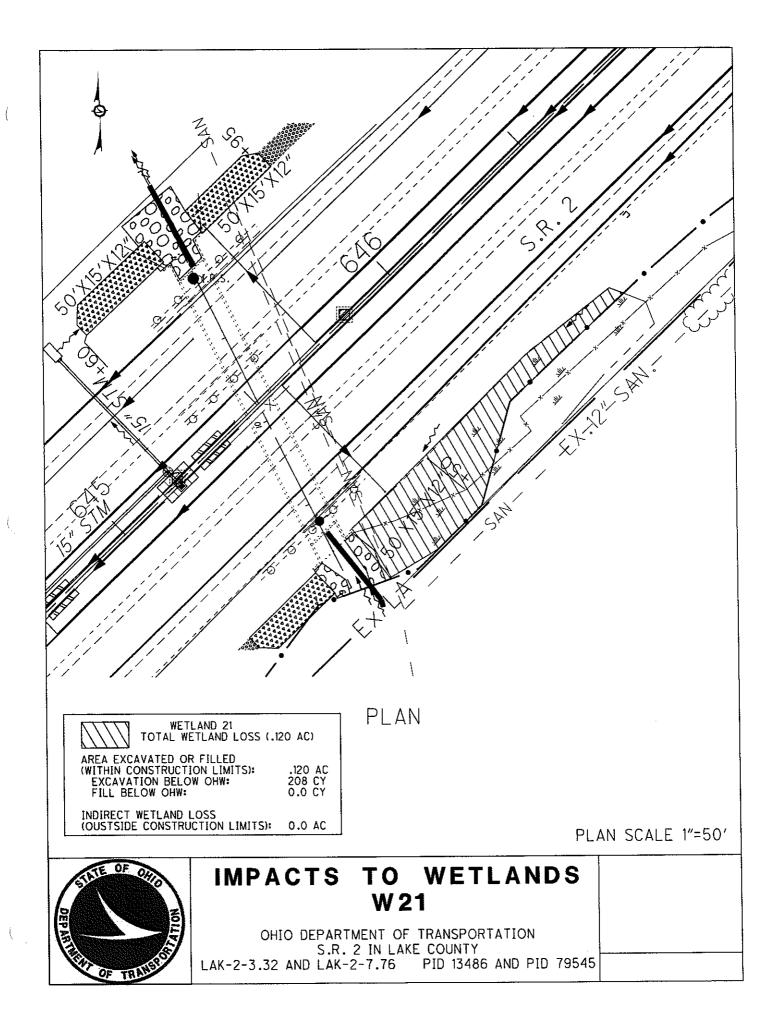


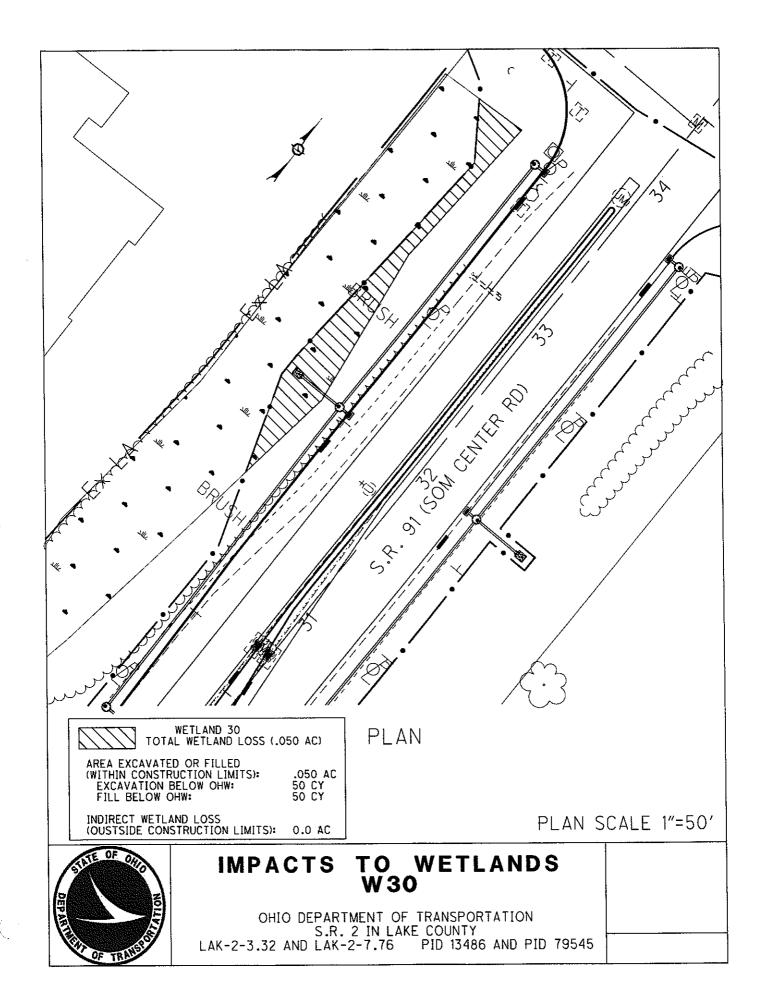












## Pre-Activity Notification Application for the General Isolated Wetland Permit Application (Level One Review) for the LAK-2-3.32 (PID 13486) Project in Eastlake, Willoughby, and Mentor, Lake County, Ohio

By

**Richard M. Paul, Ecologist/Environmental Specialist** 

Submitted By: Andrew Campbell Project Manager ASC Group, Inc. 4620 Indianola Avenue Columbus, Ohio 43214 614.268.2514

Submitted to: Scott Graham, P.E. ARCADIS U.S., Inc. 1100 Superior Avenue Suite 1250 Cleveland, Ohio 44114 216.781 6177

Lead Agency: Ohio Department of Transportation

March 3, 2008

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General Isolated Wetland Permit Application (Level One Review)

Appendix A - General Maps And Design Drawings

Figure 1 – Portion of the ODOT Lake County highway map showing the project area.

Figure 2 – Portions of the 1963 (photo revised 1992) Eastlake and the 1963 (photo revised 1992) Mentor quadrangles (USGS 7.5' topographic map illustrating the project area and isolated wetland locations (2 Sheets). Figure 3 – Plan view of wetlands.

Appendix B – ORAM V.5.0

Appendix C – Photographs

Appendix D – U.S.A.C.E Isolated Waters Determination

General Isolated Wetland Permit Application (Level One Review)

.



### State of Ohio Environmental Protection Agency

# GENERAL ISOLATED WETLAND PERMIT **APPLICATION** (Level One Review)

For impacts of ½ acre or less to Category 1 & 2 isolated wetlands

# Please Print or Type (attach additional sheets if necessary)

	Applicant	Agent:
Company Name:	Ohio Department of Transportation	ODOT, Office of Environmental Services
Address:	1980 West Broad Street, 3rd Floor	1980 West Broad Street, 3rd Floor
City, State, Zip:	Columbus, Ohio 43223	Columbus, Ohio 43223
Contact Person:	James Beasley, Director, P.E., P.S.	Michael Pettegrew, Supervisor
Phone Number(s):	(614) 466-7102	(614) 466-7102
Fax Number: (614) 728-7368		(614) 728-7368
E-Mail Address: mike.pettegrew@dot.state.oh.us		mike.pettegrew@dot.state.oh.us

### **PROJECT INFORMATION**

Watershed (include USGS 8-Digit HUC): Chagrin R. 04110003 Project Name: Lak-2-3.32 \_City/Township: Eastlake, Willoughby, and Mentor Street: State Route 2

\_Latitude: 41.41.11N; 41.41.04N\_Longitude: 81.20.31W; 81.20.51 County: Lake

Project Description:

The proposed improvement will consist of the construction of a fourth lane between SR 91 and Vine Street and a third lane between Heisley Road and SR 44. Full shoulders and a concrete median barrier will be provided. In addition, the proposed improvements will include the modification of seven freeway interchanges.

### Project Type (Check all that apply):

	Commercial		Landfill
	Erosion Control		Mining
	Flood Control		Mitigation Bank
	Industrial		Navigation/Boating
_		_	Dublie

- Lake/Pond Creation
- Public

### I have included the following in this submittal:

- X Maps showing project footprint/wetlands
  - including USGS map
- Wetland delineation
- X Corps isolated waters determination

- X Wetland categorization
- X Site photographs
- Mitigation proposal
- □ Check for applicable fees

Are there other aquatic resources on the project site (please check all that apply):

- Intermittent Streams Perennial Streams × স
- X Non-isolated wetlands
  - 図
- Lakes/Ponds

Ephemeral Streams

Remediation

□ Utility

Residential

X Transportation

Other:

List other water-related permits pending, issued, or required for this project (Nationwide permits, Coastal Zone Management, Mining, NPDES, etc.): Department of Army, 404 Permit

Ohio EPA, 401 Water Quality Certification

Wetland	ORAM	Category		Size (Acre	s)	Impacts (Acres)		
ID ···	Score		Forest	Non-Forest	Total Acreage	Forest	Non-Forest	Total Impacts
W-3	22	1	0.47		0.47	0.01		0.01
W-13	17	1		0.71	0.71		0.01	0.01
					0.00			0.00
<u></u>					0.00			0.00
					0.00			0.00
		Totals	0.47	0.71	1.18	0.01	0.01	0.02
Totals - Ca	itegory 1 V	Vetlands	0.47	0.71	1.18	0.01	0.01	0.02
Totals - Ca	itegory 2 V	Vetlands		-	0.00			0.00
Totals - Ca	tegory 3 V	Vetlands			0.00			0.00

### Individual Isolated Wetland Information Table\*. Please list all isolated wetlands:

\*List more on separate sheets if needed.

### List mitigation techniques utilized for the proposed filling:

Onsite (check)	Offsite (check)	nadora (19. – 20. – 20. – 20. – 20. – 20. – 20. – 20. – 20. – 20. – 20. – 20. – 20. – 20. – 20. – 20. – 20. – 2	Mitigat	ion Acreage	Name of Bank	Watershed (include	
		Restored	Created	Enhanced	Preserved	(If Appl.)	USGS 8-Digit HUC)
	×		0.03			Trumbull Creek	04110004
			- <u></u>				
	Totals	0.00	0.03	0.00	0.00		

#### Fee Table:

a. Application Fee:	\$0					
<ul> <li>b. Review Fee (\$500.00 X): (Acres of impacts to the nearest 1/100 of an acre)</li> </ul>		(Maximum \$5,000.00)				
c. Subtotal (add lines a and b):	\$0	(Maximum \$5,200.00)				
<ul> <li>d. After the Fact Fee (equal to line c):</li> <li>(Only if impacts have occurred without authorization)</li> </ul>		(Maximum \$5,200.00)				
e. Total Fee Amount (add lines c and d):	\$.O	(Maximum \$10,400.00)				
Please make fee check payable to: "Treasurer, State of Ohio"						

I certify that the information provided on this form and as part of this submittal regarding the project is true and accurate to the best of my knowledge:

Applicant Name (Print): James G Beasley Signature:

Applicant Queste: 3/5/05

Send completed application, including fee check, to:

Ohio EPA, Division of Surface Water<sup>V</sup> P.O. Box 1049, Columbus, Ohio 43216-1049 ATTN: Isolated Wetlands Permitting



State of Ohio Environmental Protection Agency

OHIO E.P.A.

AUG 12 2/MAILING ADDRESS:

€,

Lazarus Government Center 50 W. Town St., Suite 700 Columbus, Ohio 43215

STREET ADDRESS:

1

TELE: (614) 644-3020 FAX: (614) 644-3184 www.epa.state.oh.us P.O. Box 1049 Columbus, OH: 43216-1049

**Certified Mail** 

August 12, 2008

Mr. James G. Beasley, P.E., P.S., Director Ohio Department of Transportation 1980 West Broad Street Columbus, Ohio 43223

I certify this to be a true and accurate copy of the official documents as filed in the records of the Ohio Environmental Protection Agency.

<u>ur</u>Date:<u>8</u>

c/o Timothy M. Hill, Administrator, Office of Environmental Services

- Re: Lake County
  - Grant of Section 401 Water Quality Certification Project: (Minimal Degradation Alternative) to enhance safety and reduce congestion, and add third Iane on State Route (SR) 2 in Lake County, Ohio. ACOE Public Notice No. 2006-2200-CHA Ohio EPA ID No. 083387 ODOT ID Code:LAK-2-3.32, PID 13486

Ladies and Gentlemen:

The Director of Ohio Environmental Protection Agency hereby authorizes the above referenced project under the following authority.

## Section 401 Water Quality Certification

Pursuant to Section 401 of the Federal Water Pollution Control Act, Public Law 95-217, the Director of Ohio Environmental Protection Agency hereby certifies that the above-referenced project will comply with the applicable provisions of Sections 301, 302, 303, 306, and 307 of the Federal Water Pollution Control Act.

This authorization is specifically limited to a 401 water quality certification with respect to water pollution and does not relieve the applicant of further certifications or Permits as may be necessary under the law. I have determined that a lowering of water quality in the Chagrin River Watershed (HUC 04100009) as authorized by this certification is necessary. I have made this determination based upon the consideration of all public comments, and including the technical, social, and economic considerations concerning this application and its impact on waters of the state.

Ted Strickland, Governor Lee Fisher, Lieutenant Governor Chris Korleski, Director



Ohio EPA is an Equal Opportunity Employer

### **On-Site Water Resources and Impacts** | 1.

				TABI	.E -1				
Wetla nd ID	Wetland I	Location	ORAM Score*	Cat	Wetland Type F <sup>1</sup> , NF <sup>2</sup> , PEM <sup>3</sup> , PSS <sup>4</sup> PFO <sup>5</sup>	Total Size (acres)	Total Size Impacte d (acres)	Impact Type	% Avoide d
Wetland 4/5	41 <sup>0</sup> 39'48" N	81 <sup>0</sup> 22'52" W	36.0 29.0	Mod. 2 1	PEM	1.48	0.02	Fill	98.65
Wetland 7	41 <sup>0</sup> 39'15" N	81 <sup>0</sup> 24'28" W	27.0	1	PEM/ Scrub- Shrub	2.23	1.92	Fill	14.35
Wetland 11	41 <sup>0</sup> 41'10" N	81 <sup>0</sup> 20'16" W	22.0	1	PEM	2.40	0.01	Fill	99.58
Wetland 12	41 <sup>0</sup> 39'10" N	81 <sup>0</sup> 24'33" W	24	1	PEM	1.64	1.41	Fill	14.02
Wetland 21	41 <sup>0</sup> 41'34" N	81 <sup>0</sup> 19'37" W	6.0	1	PEM	0.20	0.12	Fill	40.0
Wetland 30	41 <sup>0</sup> 39'12" N	81 <sup>0</sup> 26'16" W	7.0	1	PEM	0.56	0.05	Fill	91.07
		τοτα	L			8.51	3.53		

#### **Jurisdictional Wetlands** Α.

\* As provided by applicant, \* Palustrine Scrub-Shrub <sup>2</sup> Non-Forest, \* Palustrine Emergent Marsh <sup>1</sup> Forest, <sup>5</sup> Palustrine Forested

*Stream ID	Stream Loca Coordi Lat	and the second	QHEI/HHEI Score	Designatio	Impact Length (If)	Impac <u>t</u> Type
				Class II	0.000000000	Culvert
Stream 1 (UT to Mentor Marsh	41 <sup>0</sup> 43'13" N	81 <sup>0</sup> 17'23" W	56 HHEI	Class II, PHWH	70	replacement
Stream 2 (UT to Chagrin River)	41 <sup>0</sup> 38'38" N	81 <sup>0</sup> 25'34" W	64 HHEI	Class II, PHWH	40	Culvert
Stream 3 (UT to Stream 1 to Mentor Marsh)	41 <sup>0</sup> 43'03" N	81 <sup>0</sup> 17'53" W	45 HHEI	Class II, PHWH	907	Relocation
Stream 4 (UT to Wasson Ditch)	41 <sup>0</sup> 43'03" N	81 <sup>0</sup> 18'03" W	50 HHEI	Class II, PHWH	1,050	Relocation
Stream 5 (UT to Heisley Creek)	41 <sup>0</sup> 42'17" N	81 <sup>0</sup> 18'54" W	64 HHEI	Class III, PHWH	33	Culvert replacement
Stream 6 (Marsh Creek)	41 <sup>0</sup> 41'34" N	81 <sup>0</sup> 19'38" W	64.25 QHEI	WWH	65	Repair concrete slab
Stream 8 (UT to Stream 9)	41 <sup>0</sup> 41'34" N	81 <sup>0</sup> 19'38" W	14 HHEI	Class I, PHWH	70	Culvert replacement
Stream 9 (UT to UT to Chagrin River)	41 <sup>0</sup> 40'50" N	81 <sup>0</sup> 21'30" W	78 HHEI	Class III, PHWH	120	Repair concrete slab
Stream 10 (Newell Creek)	41 <sup>0</sup> 40'17" N	81 <sup>0</sup> 22'12" W	24 HHEI	Ciass I, PHWH	240	Bridge work
Stream 12 (UT to Chagrin River)	41 <sup>0</sup> 39'43" N	81 <sup>0</sup> 22'53" W	69 HHEI	Class III, PHWH	161	Culvert replacement
Stream 13 (UT to Chagrin River)	41 <sup>0</sup> 38'56" N	81 <sup>0</sup> 25'00" W	51 HHEI	Class II, PHWH	85	Culvert replacement
Stream 14 (Wasson Ditch)	41 <sup>0</sup> 43'03" N	81 <sup>0</sup> 18'03" W	56 HHEI	WWH, provisional	105	Culvert replacement
Stream 15 (Heisley Creek)	41 <sup>0</sup> 42'31" N	81 <sup>0</sup> 18'43" W	57.5 QHEI	WWH	320	Bridge work
Stream 16 (Chagrin River)	41 <sup>0</sup> 39'17" N	81 <sup>0</sup> 24'21" W	56 QHEI	WWH	281	Bridge work
		TOTALS			3547	

# B. Jurisdictional Streams

\* As provided by applicant

## II. General Conditions

- A. All water resources and their buffers which are to be avoided shall be clearly indicated on site drawings and demarcated in the field with suitable materials, prior to site disturbance. These materials shall remain in place and be maintained throughout the construction process. The water resources also shall be protected with suitable materials, including silt fencing if appropriate, prior to site disturbance. These materials shall remain in place and be maintained throughout the construction process.
- B. Best Management Practices (BMPs) must be employed throughout the course of this project to avoid the creation of unnecessary turbidity which may degrade water quality or adversely affect aquatic life outside of the project area.
- C. Work shall only take place during low water conditions in order to minimize adverse impacts to water quality away from the project site.
- D. Temporary fill shall consist of suitable non-erodible material or shall be stabilized to prevent erosion.
- E. Materials used in this project for fill or bank protection shall consist of suitable material free from toxic contaminants in other than trace quantities. Broken asphalt is specifically excluded from use as bank protection.
- F. BMPs shall be taken during construction to minimize erosion.
- G. BMPs shall be taken upon completion of this project, to ensure bank stability. This may include, but is not limited to, bank seeding.
- H. Procedures shall be developed and implemented to eliminate the possibility of spills and to control dust that may enter the waterway by runoff or point discharge.
- I. Unpermitted impacts to surface water resources and/or their buffers occurring as a result of this project will be reported within 24 hours of occurrence to Ohio EPA for further evaluation.
- J. In temporary impact areas where trees have been removed to facilitate construction, they shall be replaced with appropriate native tree species.
- L. Permittee shall be in compliance with the NPDES General Construction Permit for all phases of this project.

M. Other permits may be required by Ohio EPA. For information concerning application procedures, contact the Ohio EPA District Office at the following address:

Northeast District office 2110 East Aurora Road Twinsburg, Ohio 44087

- N. Representatives from the Ohio EPA, Division of Surface Water will be allowed to inspect the authorized activity at any time deemed necessary to insure that it is being or has been accomplished in accordance with the terms and conditions of this water quality certification.
- O. In order to protect the Indiana bat from impacts from this development, the applicant shall not cut bat habitat trees between April 15<sup>th</sup> and September 15<sup>th</sup>.
- P. The bottom elevations shall be restored as nearly as possible to preproject conditions.
- Q. Blasting will not be done within or near stream channels without prior consultation with the Ohio Department of Natural Resources, Division of Wildlife, to determine what protective measures should be taken to minimize damage to fish and other aquatic life.
- R. Cadmium chromium arsenate (CCA) and creosote treated lumber shall not be used in structures in contact with waters of the state.
- S. This project may affect the drinking water wells for the adjoining City/Village. Precautions must be taken to limit any affect on the water supply. Officials at the City/Village should be notified before beginning the project and activities shall be coordinated with them.
- T. If pesticide application(s) are proposed for the control of invasive plant species, a site specific application permit must be obtained by calling 614-644-2001 and speaking with the Toxicology Specialist.

## III. MITIGATION

# A. Description of Required Wetland Mitigation

The Permittee shall compensate for the 3.53 acres of impacts to jurisdictional wetlands by purchasing a minimum of 5.4 mitigation credits from the Trumbull Creek Wetlands Mitigation Bank, located on SR 166 along the Ashtabula-Geauga County line.

# B. Timing of Required Wetland Mitigation

The Permittee shall provide Ohio EPA with an updated balance sheet showing it has purchased 5.4 mitigation credits from the Trumbull Creek Wetlands Mitigation Bank within six months from the date of issuance of this certificate.

# C. Compensatory Stream Mitigation

The Permittee shall compensate for the estimated 3,547 linear feet of impacts to the designated streams in the project area by preserving 5,321 linear feet (3,547 If X 1.5) of streams at Groves Woods, a Cleveland Museum of Natural History site in Trumbull, County, Ohio. The mitigation streams consists of Class II and Class III Primary Headwater Habitat (PHWH) streams.

# B. Timing of Required Stream Mitigation

The Permittee shall obtain a minimum of 5,321 linear feet of streams that are protected with a conservation easement, in perpetuity. The Permittee shall further provide Ohio EPA with a copy of the conservation easement for the Groves Woods site within one year from the date of issuance of this certificate.

## IV. Notifications To Ohio EPA

All notifications, correspondence, and reports regarding this certification shall reference the following information:

Permittee:	Ohio	Department of Transportation (ODOT)
Project:	Enha	ancement of SR 2
	LAK	-2-3.32, PID 13486

Ohio EPA ID#: 083387

and shall be sent to: Ohio EPA, Division of Surface Water, 401 Unit Lazarus Government Center 55 West Town Street, Suite 700 Columbus, Ohio 43216

You are hereby notified that this action of the Director is final and may be Appealed to the Environmental Review Appeals Commission pursuant to Section 3745.04 of the Ohio Revised Code. The appeal must be in writing and set forth the action complained of and the grounds upon which the appeal is based. The appeal must be filed with the Commission within thirty (30) days after notice of the Director's action. The appeal must be accompanied by a filing fee of \$70.00 which the Commission, in its discretion, may reduce if by affidavit you demonstrate that payment of the full amount of the fee would cause extreme hardship. Notice of the filing of the appeal shall be filed with the Director within three (3) days of filing with the Commission. Ohio EPA requests that a copy of the appeal be served upon the Ohio Attorney General's Office, Environmental Enforcement Section. An appeal may be filed with the Environmental Review Appeals Commission at the following address: Environmental Review Appeals Commission, 309 South Fourth Street, Room 222, Columbus, OH 43215

Sincerely,

Chris Korleski Director

cc: Deborah L Wegmann, Team Leader, U.S. Army Corps of Engineers, Huntington District, Ohio Regulatory Transportation Office Wayne Gorski, U.S. EPA, Region 5, William Cody, Asst. Administrator, OES/ODOT Mike Pettegrew, Supervisor, Waterway Permits Unit, OES/ODOT Don Rostofer, Supervisor, Ecological Unit, OES/ODOT Karen L. Hallberg, USF&W (Reynoldsburg Office) Brian Mitch, ODNR Ed Wilk, NEDO/Ohio EPA Joe Loucek, NEDO/Ohio EPA



## THE DEPARTMENT USES THE BID EXPRESS WEBSITE, http://www.bidx.com AS AN OFFICIAL REPOSITORY FOR ELECTRONIC BID SUBMITTAL. BIDDERS MUST PREPARE THEIR BIDS ELECTRONICALLY USING EXPEDITE AND SUBMITTED VIA BID EXPRESS.

January 15, 2009

Re: Project 080597 Addendum No. 20 PID No. 13486 LAK-2-3.32 Major Widening Letting: January 21, 2009

Notice to all Bidders and Suppliers to please be advised of the attached Proposal Addendum.

The quantity sheets that show revised items will no longer be attached to the addenda. All Reference Item revisions are reflected in the EBS files (Expedite) for this project.

For internet access to information referenced in this addendum, please see the ODOT web-site at:

ftp://ftp.dot.state.oh.us/pub/Contracts/Attach/LAK-13486/

ADDENDA AND/OR AMENDMENTS MUST BE ACKNOWLEDGED IN THE MISCELLANEOUS SECTION OF THE EXPEDITE (EBS) FILE IN ORDER FOR YOUR BID TO BE CONSIDERED FOR AWARD OF THIS PROJECT. BID EXPRESS WILL NOT ACCEPT BIDS THAT DO NOT HAVE AMENDMENTS INCORPORATED. FAILURE TO INCORPORATE CHANGED QUANTITIES OR ITEMS IN YOUR EXPEDITE (EBS) SUBMISSIONS WILL RESULT IN THE REJECTION OF YOUR BID.

Respectfully,

ima Clan / 172

James G. Beasley Director Department of Transportation

TP:jwt

# Proposal Addendum For LAK-2-3.32; PID 13486 Project 080597

KUVISU L	ne tonowing the			-
Ref.	Item	Quantity	Unit	Description
No.	Number			
150	302E46000	115117	CY	Asphalt Concrete Base, PG64-22
154	408E10000	168370	GAL	Prime Coat
650	840E23000	1460	CY	Select Granular Backfill
692	840E23000	1452	CY	Select Granular Backfill
1018	203E10000	399583	CY	Excavation
1019	203E20000	310494	CY	Embankment
1025	203E10000	392488	CY	Excavation
1026	203E20000	327642	CY	Embankment
1032	304E20000	69051	CY	Aggregate Base
1034	888E14060	392880	SY	Portland Cement Concrete Pavement, 11.5" Thick (Non-
				Reinforced Per 452)

## **Revise the following Items:**

## **Delete the following items:**

Ref. No.	Item Number	Quantity	Unit	Description
489	203E35120	470	CY	Granular Material, Type C

## Add the following items:

Ref.	Alt.	Item	Quantity	Unit	Description
No.		Number			
1056		202E22900	134	SY	Approach Slab Removed
1057		202E22900	134	SY	Approach Slab Removed
1058	AA2	302E46000	1668	CY	Asphalt Concrete Base, PG64-
					22
1059	AA2	407E10000	1358	GAL	Tack Coat
1060	AA2	407E14000	679	GAL	Tack Coat for Intermediate
					Course
1061	AA2	408E10000	2401	GAL	Prime Coat

## Add the following note:

In addition to the provisions of SS888 Portland Cement Concrete Pavement Using QC/QA and all Item 452 Non-Reinforced Portland Cement Concrete Pavement, the Contractor shall provide a concrete mix design that meets the following requirements:

## **Fine Aggregate**

The Fineness Modulus must be 2.7 or greater.

## **Coarse Aggregate**

The use ODOT No. 8 aggregates is not allowed in any concrete pavement mix design.

## Well Graded Combined Aggregate Mix Design

The Contractor shall propose a combined aggregate gradation that provides a well-graded concrete mix for each proposed concrete mix to be used.

The Contractor shall submit, for review and acceptance, the proposed combined aggregate gradation with all supporting documentation that demonstrates a well-graded concrete mix design.

The Engineer will have 14 calendar days to review the submittal. If, in the opinion of the Engineer, there is not enough supporting documentation for the proposed mix design, the Engineer will request additional information and the 14 calendar day period begins when the additional information is received by the Engineer.

The review and acceptance of the proposed mix design does not negate the provisions of ODOT Specification Item 451.16.

The Contractor shall sample all aggregates for gradation testing prior to each day's paving and provide those results to the Engineer prior to beginning paving. No paving shall commence when the test results are not within the gradation limits established for the mix design.

One additional random sample shall be tested during each paving day to ensure conformity with the reviewed and accepted mix design. Additional testing and adjustments shall be conducted by the Contractor as needed to maintain the combined gradation within the reviewed and accepted mix design limits.

The provisions stated above do not eliminate or replace any of the provisions stated in SS888. These sampling and testing requirements shall be consistent with the QC/QA provisions.

## Payment

These requirements are considered incidental to their respective bid items.

LINKED to this addendum is:

PAVEMENT-CALCS-REV20081120.XLS	revised pavement calculations
ATTACHED to this addendum is:	
DOC011309-003.pdf	revised concrete alternative calculations

## **Answers to Prebid Questions:**

- Q: There are bid items for removal of approach slabs on all bridges except 0486 L/R Erie Rd bridges. Please provide bid items for the removal of the approach slabs in an addendum.
- A: Quantities for the approach slab removal have been included in addendum #20.
- Q: Revised earthwork quantities, shown on the files provided with addendum Q on the Department's FTP site ftp://ftp.dot.state.oh.us/pub/Contracts/Attach/LAK-13486/, have once again omitted all excavation and embankment work for all side streets (AA1 & AA2). The quantities for side streets listed on Plan page 264/1679 are not shown in the revised earthwork summary (Addendum Q). The Department has added 44,720 CY of excavation for shoulders as answered in a pre-bid question (dated 12/16/2008). Our Detailed shoulder excavation takeoff cannot justify this magnitude of change in quantity. Please provide revised cross section and detailed summary sheets of how these quantities have been derived and include in an addendum.
- A: The excavation and embankment quantities have been revised in addendum #20 to include the side streets.

- Q: Bid item 489 is 203 Granular Material Type C (703.16C) 470 cy. Plan sheet 1565 / 1679 shows that 203 Granular Material Type C at the bottom of the MSE embankment. Bid item 494 is item 840 Foundation Preparation 1150 sy. Placement of Granular material 703.16C is incidental to item 840 Foundation Preparation. There appears to be duplication of the Granular Material Type C material. Should bid item 489 be deleted?
- A: Bid item 489 has been deleted in addendum #20.
- Q: Why is there a difference in surface area quantities being bid for the AA1 442 Asphalt Concrete Surface Course and the AA2 888 Non-reinforced Concrete Pavement? Item 442 16,370 CY x 36" / 1.5" = 392,880 SY which does not = Item 888 386,215 SY. Please revise one quantity or the other in an addendum.
- A: The 888 item and the concrete pavement calcs have been revised in addendum #20.
- Q: The revised plan quantity calculation sheet for the Vine Street Ramps labeled as ftp://ftp.dot.state.oh.us/pub/Contracts/Attach/LAK-13486/LAK-13486-AddendumQ-PavementQuantitiesRevised.xls still include quantities that are grossly overstated. Please check the cell formulas for cells Q52, Q53, Q54, Q55, and all Totals listed in row 72 (duplications due to subtotals being included in the column summation) then revise the appropriate quantities in an addendum.
- A: The spreadsheet and quantities have been revised in addendum #20.
- Q: Again we will ask how is the pavement widening on side roads SR 306 and SR 91 to be handled if the concrete alternate is accepted? The oversight exists in that the Department has not provided any quantity for Item 302 in widening slots if concrete alternate AA2 is accepted.
- A: The asphalt quantities have been added to AA2 in addendum #20.
- Q: For Bridge No. LAK-2-0400 (SR 2 Over Vine St.) the abutment cross-section shown on plan page 1348 clearly defines the area for Item 840 Select Granular Backfill and the area for Granular Material, Type C. Please verify that the 3,398 cy of Select Granular Backfill only includes the quantity specified as Item 840 and does not include the quantity for Granular Material, Type C.

Our takeoff quantity for Item 840 – Select Granular Backfill yielded a quantity approximately 400 cy less than the plan quantity of 3,398 cy. Also, our quantity for the Granular Material, Type C was approximately 400 cy. It was our presumption that the Granular Material, Type C quantity was included in the quantity for Item 840 – Select Granular Backfill. Please verify.

- A: The Type C Granular Material was inadvertently included with the Select Granular Backfill. Therefore, the Total Select Granular Backfill quantity for both bridges should be adjusted to 3000 SY and the Type C Granular Material should be included with the Foundation Preparation for payment per supplemental Specification 840. The quantities have been adjusted in addendum #20.
- Q: Maintaining traffic- plan sheet 133 of original maintenance of traffic design (for informational purposes only) stated that "Entrance Ramp (Ramp E, the westbound on-ramp at Lost Nation) To Be Closed During Phase B Per MT 101.60". Note that the ramp is not being reconstructed during this closure in this phase. Addendum 10 gives the contractor 45 days closure for this ramp with disincentives of \$5,000 per day beyond 45 days. It appears that the reasoning for this ramp closure could have been due to a combination of lack of: acceleration length, curvature, and/or safe distances from the Lost Nation overhead bridge and Chagrin River bridge. The ramp itself is set for reconstruction during the outside WB phase (original stage 2, phase C). If the ramp is to be closed for both phases, then the number of days closed will easily go beyond 45 days. Does this ramp need to be shut down while westbound traffic is on the existing outside shoulder? If so, will ODOT revise the

length of closure to extend beyond 45 days?

Also, to confirm addendum 10, under stage 1 work to be completed notes, ramps A,E,B,F can be closed for 45 days. Stage 2 work to be completed notes also state that ramps A,E,B,F can be closed 45 days. The disincentive table shows 45 days closure with disincentives after 45 days. Please confirm whether or not the contractor will be allowed two closures of up to 45 days at these respective ramps.

- A: As stated in Addendum 10, Ramps A, E, B and F can be closed for 45 days each during Stage 1, when the Lost Nation Rd bridge will be reconstructed and the approach pavement will be replaced. Also, as stated in Addendum 10, Ramps A, B and F can be closed for 45 days each during Stage 2, when the SR-2 pavement will be replaced. During Stage 2, the 45 day closure restriction for Ramp E shall be waived due to the lack of acceleration length that would be required when the SR-2 WB traffic is placed on the outside shoulder to construct the median pavement.
- Q: Does item # 404 "11in Reinforced Concrete Pavement" 6563 sy (set up in MOT plans page 53 of 1679) get removed or does it stay in place upon completion of the project? If it gets removed how is the pavement removal paid for?
- A: If the successful bidder elects to utilize crossovers in their MOT plans, the reinforced concrete may be used in areas of unsuitable soil. The pavement would require removal. Any removal should be accounted for in the Lump Sum MOT quantity.
- Q: Please clarify how the quantities were determined for Ref. 47 and 48. What is this material, and where is it located?
- A: There is a general note on sheet 46B/1679 which explains the quantities for reference numbers 47 and 48. The special provisions asbestos inspection report for parcel 9, dated 3/24/08 describes the materials found and where they are located.
- Q: The lump sum Asbestos Abatement item (Ref. 49) has notes on plan sheet 46/1679 that are confusing. Several of the structures listed there are not even within the scope of this project. For the structures that are in this project, why are the Square Foot and Linear Foot quantities shown not part of Ref. 47 and 48?
- A: Ref item 49 refers to the asbestos removal from the bridges which will be paid as a lump sum. The Item Special Asbestos Abatement note has been revised in a previous addendum.
- Q: In the Special Provision "Ohio EPA Notification of Demolition Renovation", the reports seem to correspond to the items listed for the lump sum Ref. 49. However, the reports that quantify asbestos containing materials show the materials as being "Non Friable Asbestos Material NOT to be Removed, Category I". Do these materials need to be removed as part of this project?
- A: The Item Special Asbestos Abatement note has been revised in a previous addendum.
- Q: Also in the asbestos Special Provision, several structure are reported as having asbestos, but no material or quantity is mentioned.
- A: The Item Special Asbestos Abatement note has been revised in a previous addendum.
- Q: For the Building Demolition, the plan notes on Sheet 46A state that asbestos abatement will be performed by the contractor. Where is this work to be paid for? Are there asbestos reports indicating what needs to be removed?
- A: The asbestos removal for the building to be demolished at 36628 Vine St. will be paid under ref items 47 and 48. A detailed report indicating what needs to be removed can be found in Special Provisions Asbestos Inspection Report for Parcel 9, dated 3/24/08.

- Q: Addendum 9, which came out on November 20, 2008, called for removal or non-removal of asbestos on structures that are not being worked on within the job (LAK-2-4.56, LAK-2-9.55, LAK-2-11.41, LAK-2-11.69, LAK-2-12.62, LAK-44-6.20, LAK-2-13.54, LAK-2-14.28, LAK-2-14.76, LAK-2-15.17). Please verify that no work is to be done on these structures since they are not within limits of the project.
- A: LAK-2-4.56 is included in this project, but not the others.

revised 1113/09 1/3 mainline 33.75 6 12" 888 304 206 From consultant's spreadsheet 1,571,287 WB => L= 23,000' W= Varies area of concrete = +, 511, 2875F EB => L= 23,012' W = Varies area of concrete = 1,508,2155F total = 3,079,502 SF  $= \frac{342,167}{335,500}$  Sy 1+cm 888 = 335,500 sy for item 304 => add 6" step and 33.75" under barrier WB = (23000) (1.90625') = 43843.75 SF EB = (23012')(1.90625') = 43866. 6255F total= 87710.375SF = 9745.6 Sy 342,167 351,913 -335,500 + 9746 = 345246 Sy  $(\frac{351}{345344})(\frac{6}{34}) = \frac{58252}{57544}$ 14cm 304 = 58652 351, 913 for item 206 => add 12" step 345,246+ 5112= 357,025 350,358 SY WB= (23000)(1') = 23000 SF EB = (23012) (1') = 23012 SF Hern 206 = 350, 358 sy total = 46,012 SF = 5112 SY

ramps

from consultant's sprendsheet: Vini st ramps 11, 459 sy Lost Nation ramps 18,642 sy SR-91 + SR-306 ramps 20,614 sy tothe = 50, 715 sy 888 304 1+cm\_ 888 = 50,715 sy ter and the second s Hem 304 => add 6" step Vine st. ramps: SR-91: 107906 SF L= 2304' 39,109 SF L= 4190' add 6" step = 2304SF add 6" step = 4190SF Lost Natim: 167,782 SF L= 4282 add 6" step = 4282 SF item 304 = 9249 cy SR-306 : 157,919 SF L= 15,939 add 6" step = 15,939 SF Vine > 110210 SF = 12246 SY Lost Nation > 172064 SF = 19118 SY SR-306 ⇒ 173858 SF = 19318 SY SR-91 7 43299 SF = 4811 SY

2/3

	3/3
	ramps (cm'+)
	item 206 > add 12" step
	Vine = add 4608 SF
<u>.</u>	Lost Nation => add 85645F
	5R-306 = add 31878 SF
	SR-91 ⇒ add 8380 SF
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	1tem 206 = 61430 sy
	totals
	item 888 = 386, 215 sy
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	1tcm 304 = 66, 790 cy
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	1 tem 206 = 411, 788 Sy
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January 15, 2009

Re: Project 080597 Addendum No. 21 PID No. 13486 LAK-2-3.32 Major Widening Letting: January 21, 2009

Notice to all Bidders and Suppliers to please be advised of the attached Proposal Addendum.

The quantity sheets that show revised items will no longer be attached to the addenda. All Reference Item revisions are reflected in the EBS files (Expedite) for this project.

For internet access to information referenced in this addendum, please see the ODOT web-site at:

ftp://ftp.dot.state.oh.us/pub/Contracts/Attach/LAK-13486/

ADDENDA AND/OR AMENDMENTS MUST BE ACKNOWLEDGED IN THE MISCELLANEOUS SECTION OF THE EXPEDITE (EBS) FILE IN ORDER FOR YOUR BID TO BE CONSIDERED FOR AWARD OF THIS PROJECT. BID EXPRESS WILL NOT ACCEPT BIDS THAT DO NOT HAVE AMENDMENTS INCORPORATED. FAILURE TO INCORPORATE CHANGED QUANTITIES OR ITEMS IN YOUR EXPEDITE (EBS) SUBMISSIONS WILL RESULT IN THE REJECTION OF YOUR BID.

Respectfully,

ima Clan / 172

James G. Beasley Director Department of Transportation

TP:jwt

# Proposal Addendum For LAK-2-3.32; PID 13486 Project 080597

Itevise ti	he following fit			
Ref.	Item	Quantity	Un	Description
No.	Number		it	
167	609E26000	10125	FT	Curb, Type 6
168	609E54000	311	SY	6" Concrete Traffic Island
1008	448E47020	531	CY	Asphalt Concrete, Surface Course, Type 1, PG64-22
1048	448E46050	669	CY	Asphalt Concrete, Intermediate Course, Type 2, PG64-22
492	840E20001	4593	SF	Mechanically Stabilized Earth Wall, As Per Plan
936	606E10920	11040	SF	Special – Noise Barrier. Misc.: Structure Mounted TL-4 Noise
930				Barrier
1026	203E20000	318742	CY	Embankment

# **Revise the following Items:**

#### Add the following items:

Section	Item	Quantity	Unit	Description					
	Number								
1062	511E34434	25.33	CY	Class S Concrete, Bridge Deck					
1063	621E00100	1763	EAC	RPM					
			Η						

Revise the following note on sheet 47:

Item 614 - Law Enforcement Officer (With Patrol Car) For Assistance During Construction

Delete the 5<sup>th</sup> paragraph which states: Routing patrolling through the work zone (with flashing lights off) as specified in the plans.

Revise the note on sheet 967:

VI. Method of Measurement

Delete the sentence which states: Where a noise barrier is constructed behind a concrete parapet, the bottom of the wall shall be defined as the top of the parapet for measurement purposes.

LINKED to this addendum are revised plan sheets 14, 35, 630, 632.

In-stream work restrictions table in .pdf format is attached to this addendum.

## **Answers to Prebid Questions:**

Q: According to addendum #10, ODOT will only pay up to the plan quantities for the established MOT bid items. Under the LEO bid item, we are supposed to include "Routine patrolling through the work zone (with flashing lights off) as specified in the plans". This is an "as directed" item that cannot be quantified prior to the bid. This project could be under construction for 1000 days. Just to patrol 10 hours a day would add 10,000 LEO hr to our bid, which, using average unit prices, would increase the Maintaining Traffic, LS cost by almost \$500,000. This project is located in three different

municipalities, who with their police departments, county sheriff forces, and state highway patrols routinely patrol these roads as is. Please remove this note from the LEO bid item so that all contractors can provide equivalent bids.

- A: I have deleted that requirement in addendum #21.
- Q: Addendum 18 provided plan sheets of the existing SR 91 bridges over Lakeland Blvd. and SR 2. Reference 7, Traffic Island Removed, has quantity to be removed on top of both structures. For the Lakeland Bridge, the replacement called for per plan sheet 35, detail AE is a curbed widening with full depth stone and asphalt pavement totalling 19" deep. The existing deck thickness is 8.25". On structure over SR 2, plan sections call for pavement removal ane replacement to a similar depth (19") without new curb, and an existing deck thickness of 8.5". In both cases, the depth of reconstruction goes below the existing bridge decks. Please revisit what should be done with removal and replacement when these islands are on existing bridge decks in an addendum.
- A: Details and quantities have been provided in addendum #21.
- Q: Addendum No. 18 provided existing structure information for SR91 Bridge over Lakeland Blvd. and SR91 Bridge over SR-2. Please provide details and scope as to how ODOT wants the pavement and islands removed and the new proposed pavement section constructed. There will be significant structure work to these two bridges in order to remove the islands and pavement including bridge deck and reinforcing removals. Details on pg 35 AE, AG and H cannot be utilized. The proposed pavement thickness exceeds the existing deck thickness. This work should be considered structure work and not normal roadway and pavement work. Please review these existing structures and new proposed work and advise via Addenda with details.
- A: Details and quantities have been provided in addendum #21.
- Q: Sheet 956 calls out the noisewall on top of the moment slab as fiberglass, however the noisewall plans do not include any fiberglass noisewall. It appears that this portion of Wall B is included for payment with the rest of the ground mounted wall. Please clarify as to material type and where it is to be paid.
- A: The noise wall material is transparent, not fiberglass and it is paid for as ref # 930.
- Q: Reference No. 175 for the moment slab should be itemized by the linear foot or cubic yard and provide a breakdown of the rebar since this is a structural element similar to MSE wall sleeper slabs.
   A: Ref #175 is inclusive of all required items. Bid as per plan.
- Q: Ref. 7- removal of existing medians on SR 91 bridge over Lakeland and SR 2 will leave exposed bridge deck. There will be old vertical bars that tie the median to the deck. There will be an existing deck with dozens of old vertical bar holes and a surface that will be uncertain due to how well the raised median bonded to the deck surface. There are no bid items set up for repair of the holes as well as treatment of the existing deck surface prior to any restoration work being done. Also, given that this removal is over a bridge deck, are there any restrictions on what equipment and/or methods can or cannot be used? Please address this in an addendum.
- A: Details and quantities have been provided in addendum #21.
- Q: The noisewall Method of Measurement on sheet 967 states that the top of parapet shall be defined as the bottom of barrier when the wall is constructed behind a barrier. It appears that ODOT Reference No. 930 is for 3,928 sf of wall attached to the moment slab in Wall B. The plan quantity accounts for the entire wall panel as shown on sheet 1010-1011 per the note on sheet 968. Please verify that no deduct will be made for any wall below the top of barrier.
- A: The entire SF of noise wall will be paid for; there will be no deduct for noisewall below the top of barrier. The language in the plans has been revised in addendum #21.

- Q: We can not find the exact start and end stations for the moment slab (Reference No. 175). Please provide or tell us what plan sheet to look on.
- A: Slab Limits = Sta. 352+22.53 to Sta. 356+10.47 = 387.94'
- Q: Typical details for sleeper slabs and parapets provide a construction joint between the two elements at the bottom of the parapet. Please clarify if such a joint will be allowed on the moment slab shown on sheet 977 of the plans. This would be extremely difficult to construct without said joint.
- A: A joint will be allowed.
- Q: Please provide Noise Barrier Moment Slab detail for the Concrete Pavement Alternate indicating how ODOT proposes to adjoin the new 11 <sup>1</sup>/<sub>2</sub> " concrete pavement to this concrete moment slab. Current details shown on page 956 and 977 are based on asphalt paving only.
- A: For the concrete pavement alternative, asphalt will be placed over the moment slab as it is detailed for the asphalt pavement alternative. The asphalt item added is Item 448 Asphalt Concrete Surface Course, Type 1, PG64-22.

The slab has a minimum amount of asphalt at the toe of the barrier = 3''(0.25')

The slab has a maximum amount of asphalt at 8.42' from the face of the barrier = 0.25' + (8.42')(0.04 slope) = 0.59'

Cross Section Area =  $\frac{1}{2}(0.25'+0.59')(8.42') = 3.54$  sf Volume of Asphalt = (3.54 sf)(387.94') = 1373.31 cf = 50.76 CY of asphalt

In addition to the quantity added to ref #1008, I also added 5.4 CY that was inadvertently missed form a previous addendum concerning Stevens Blvd.

	Ja	an	Fe	b	Mar	A	pr	Ma	ay	Jun		Jul	Αι	ıg	Ser	o (	Dct	No۱	/	Deo
Stream Types				15 1	15	51	15	1	15	1	51					51				T
<b>Io Date Restrictions:</b> Class I and Class II PHWH streams (watershed <1 mi^2), MWH, and LRW <i>i</i> thout T&E species. ***When project impacts meet ecological MOA/404 NWPs no date restrictions are equired for Class III PHWH streams or WWH streams <20 mi^2 drainage area.																				
Other Streams: EWH, CWH, WWH >20 mi <sup>^</sup> 2 drainage area, or streams with T&E species. Includes ake Erie & bays. ***If impacts require a Level 1 or Level 2 ESR/ Individual 404/401 permit (does not neet Ecological MOA), exclusionary dates for in-stream construction activities also apply to all Class III PHWH streams (watershed <1 mi <sup>^</sup> 2) and all WWH streams regardless of drainage area. Special onditions (such as occurrence of T&E species) may mandate local variation of restrictions.																				
Percid Streams: Cuyahoga River (to dam below the S.R. 82 bridge east of Brecksville (Chippewa Rd.)) Great Miami River (to dam south of New Baltimore), Hocking River (lower section), Little Miami River lower section), Maumee River (to split dam at Mary Jane Thurston State Park and Providence Park in Grand Rapids), Maumee Bay, Muskingum River (to Devola Dam No. 2 off S.R. 60 north of Marietta), Dhio River (entire reach), Portage River (entire reach), Sandusky River (to Ballville Dam off River Road n Fremont), Sandusky Bay, Scioto River (lower section), Toussaint River (entire reach).																				
<b>Salmonid Streams:</b> Arcola Creek (entire reach), Ashtabula River (to Hadlock Rd.), Ashtabula Harbor, Chagrin River (to I-90), Cold Creek (entire reach), Conneaut Creek (entire reach), Conneaut Harbor, Cowles Creek (entire reach), Euclid Creek (entire reach), Grand River (to dam at Harpersfield Covered Bridge Park just upstream of the S.R. 534 bridge)/Fairport Harbor, Indian Creek (entire reach), Rocky River (to dam off Park Dr. just south of the I-90 bridge south of Rock River), Turkey Creek (entire reach), Vermillion River (to dam at Wakeman upstream of the S.R. 20/60 bridge), Wheeler Creek (entire reach), Whitman Creek (entire reach).																				
National or State Wild or Scenic River: Typical In-Stream work exclusionary dates requested by DDNR Division of Natural Areas and Preserves on scenic rivers																				

#### EXCLUSIONARY DATES FOR IN-STREAM CONSTRUCTION ACTIVITIES (ODNR Division of Wildlife Statewide In-Water Work Restrictions 8/12/05)

ODNR will continue to provide project specific recommendations in our comments and, as in the past, project specific waivers or modifications of the period may be requested from ODNR by contacting DOW at 614.265.6631.

In-Stream Construction Activities Allowed

In-Stream Construction Activities Not Allowed



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January 22, 2009

Re: Project 080597 Addendum No. 22 PID No. 13486 LAK-2-3.32 Major Widening Letting: January 28, 2009

Notice to all Bidders and Suppliers to please be advised of the attached Proposal Addendum.

The quantity sheets that show revised items will no longer be attached to the addenda. All Reference Item revisions are reflected in the EBS files (Expedite) for this project.

# ADDENDA AND/OR AMENDMENTS MUST BE ACKNOWLEDGED IN THE MISCELLANEOUS SECTION OF THE EXPEDITE (EBS) FILE IN ORDER FOR YOUR BID TO BE CONSIDERED FOR AWARD OF THIS PROJECT. BID EXPRESS WILL NOT ACCEPT BIDS THAT DO NOT HAVE AMENDMENTS INCORPORATED. FAILURE TO INCORPORATE CHANGED QUANTITIES OR ITEMS IN YOUR EXPEDITE (EBS) SUBMISSIONS WILL RESULT IN THE REJECTION OF YOUR BID.

Respectfully,

Jame Clary /m

James G. Beasley Director Department of Transportation

TP:jwt

# Proposal Addendum For LAK-2-3.32; PID 13486 Project 080597

## **Revise the following Items:**

Ref.	Item Number	Quantity	Unit	Description				
No.		Quantatoj	C III C	2 compton				
150	302E46000	119093	CY	Asphalt Concrete Base, PG64-22				
151	304E20000	74197	CY	Aggregate Base				
152	407E10000	40278	Gal	Tack Coat				
153	407E14000	20139	Gal	Tack Coat for Intermediate Course				
154	408E10000	167490	Gal	Prime Coat				
155	442E10001	16217	CY	Asphalt Concrete Surface Course, 12.5 MM, Type A (446), As Per Plan				
156	442E10100	18910	CY	Asphalt Concrete Intermediate Course, 19 MM, Type A (446)				
166	609E14000	9407	FT	Curb, Type 2A				
167	609E26000	8073	FT	Curb, Type 6				
172	622E10100	20348	FT	Concrete Barrier, Single Slope, Type B				
173	622E10160	7713	FT	Concrete Barrier, Single Slope, Type D				
346	632E64010	31	Each	Signal Support Foundation				
359	632E80500	6	Each	Signal Support, Type TC-81.20, Design 11				
936	606E10920	5520	SF	Special – Noise Barrier. Misc.: Structure Mounted TL-4 Noise Barrier				
1014	622E25050	30	Each	Concrete Barrier End Anchor, Reinforced, Type D				
1020	206E10500	12254	Ton	Cement				
1021	206E11000	412597	SY	Curing Coat				
1022	206E15000	412597	SY	Cement Stabilized Subgrade 12" Deep				
1023	206E20000	206	Hour	Test Rolling				
1027	206E10500	12265	Ton	Cement				
1028	206E11000	412970	SY	Curing Coat				
1029	206E15000	412970	SY	Cement Stabilized Subgrade 12" Deep				
1030	206E20000	206	Hour	Test Rolling				
1032	304E20000	72918	CY	Aggregate Base				
1034	888E14060	389208	SY	Portland Cement Concrete Pavement, 11.5" Thick (Non- Reinforced Per 452)				
246	621E00100	AA1	1763	Each RPM				

Revise Sheet 1546:

The AS1001 bars in the Rear and Forward Approach Slab Reinforcing Schedules should be revised to read:

Bar Length=31'-0" Bar Type=25 Dimension A=29'-7" Weight=7870 LBS. Rear Total Weight=12988 LBS. Forward Total Weight=13060 LBS.

# **Answers to Prebid Questions:**

- Q: Ref.892 approach slab for 0530EN reinforcing listed on sheet 1546 shows mark AS1001 as being a straight bar. The standard drawing indicates a 180 degree hook @ the abutment end of the bar. Can you please verify that you want this bar straight with no hook?
- A: AS1001 bar type has been revised in addendum #22.
- Q: Please compare the number of signal supports to be installed per Plan Sheets 1167, 1170, 1173, 1177, 1180, 1183, 1186, 1189, 1194 and 1197 and compare it to the information contained on the signal support charts per Plan Sheets 1169, 1172, 1175, 1179, 1182, 1185, 1188, 1191, 1196 and 1199 there are numerous discrepancies where neither match the plan summary or the bid line items. Please clarify.

Reference Number 346 has a total quantity of 32 each signal support foundations, however if you add the quantities contained in Reference Numbers 354 thru 372 there are a total of only 30 different types of signal supports. Please clarify.

- A: The quantities have been revised in addendum #22.
- Q: There appears to be conflicts with Reference No. 173, Concrete Barrier Single Slope Type D. Summary sheets 250, 251, Ref B-2 and B-3 plan pages 284 and 285 approximate Stations 352+00 to 356+00 show this barrier in the same location as the Noise Barrier Moment Slab. Moment slab details, page 977 indicate this barrier wall to be inclusive to the moment slab item with reinforcement. Please advise if this barrier should be included with the Noise Barrier Moment Slab line item or Single Slope Type D Barrier line item.
- A: The barrier has been subtracted in addendum #22.
- Q: Also, page 286 and 287, Code B-4, Station 373+80 to 380+23 LT shows Single Slope Type D. Cross sections appear to show this as a Type B Barrier. Please review and advise as to which barrier type should be constructed.
- A: Sheet 287/252 Item B-4 bubble doesn't show up on the plan sheet. It shows up as Type B Barrier APP in the subsummary like it should, but the number should be 946. (Already picked up with previous addendum)
   Sheet 288/252 Item B-2 is quantified as Type B APP as it should be, but the end station is wrong. It should end at station 392+75, for a total of 25' on that sheet. (Already picked up with previous addendum)
- Q: Regarding Ref. 166 Curb, Type 2A. There appears to be curb that is counted twice. Sheet 247 refers to 5717 LF of curb quantified in the "office calcs." This quantity appears to be the same area as depicted on sheet 259. Please verify the actual quantity for Curb, Type 2A.
- A: The quantity for curb, type 2A has been revised in addendum #22. Also see the most current quantity spreadsheets.
- Q: The question on the Type 6 Curb quantities asked on January 14 and answered on January 15th. It appears that the proposal quantity still reflects the 2052 LF from 358+77 to 379+29 RT on Lost Nation Ramp D. Please revise the quantity in the proposal.
- A: The quantity has been revised in addendum #22.
- Q: There is extensive roadway work required under the CSX structure that is located in Stage 3, however, there has been no Railroad Protective insurance bid item set up on this project. Is CSX going to

require this policy? If so, a bid item needs to be added along with the information needed for contractors to receive a premium quote for this policy. No railroad construction agreement is necessary.

A:



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January 23, 2009

Re: Project 080597 Addendum No. 23 PID No. 13486 LAK-2-3.32 Major Widening Letting: January 28, 2009

Notice to all Bidders and Suppliers to please be advised of the attached Proposal Addendum.

The quantity sheets that show revised items will no longer be attached to the addenda. All Reference Item revisions are reflected in the EBS files (Expedite) for this project.

For internet access to information referenced in this addendum, please see the ODOT web-site at:

ftp://ftp.dot.state.oh.us/pub/Contracts/Attach/LAK-13486/

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Respectfully,

ima Clan / 172

James G. Beasley Director Department of Transportation

TP:jwt

# Proposal Addendum For LAK-2-3.32; PID 13486 Project 080597

### **Revise the following Items:**

Ref. No.	Item Number	Quantity	Unit	Description
41	608E4900	22	Each	Curb Ramp
425	614E13000	225	CY	Asphalt Concrete for Maintaining Traffic
448	616E10000	3155	MGA	Water
440			L	

## **Delete the following items:**

Ref. No.	Item Number	Quantity	Unit	Description
401	410E12000	480	CY	Traffic Compacted Surface, Type A

#### **Added Items:**

Ref. No.	Item Number	Quantity	Unit	Description
1064	608E52000	75	SF	Curb Ramp
1065	613E41300	66	CY	Low Strength Mortar Backfill, Type 2

Delete the following note:

Sheet 48/1679 and Sheet 56B/1679 Item 614, Maintaining Traffic (Estimated Quantities).

Revise the following notes:

Sheet 53/1679 and Sheet 56G/1679 Unsuitable Soils at Crossover Locations should read:

Unsuitable soils may be encountered at crossover locations. The following quantities are provided for use by the contractor, if crossovers are utilized.

395	204E13000	1530 CY	Excavation of Subgrade
396	204E30010	1530 CY	Granular Material, Type B
399	304E20000	815 CY	Aggregate Base
404	451E15500	6563 SY	11" Reinforced Concrete Pavement

Sheet 52/1679 and Sheet 56F/1679 Drainage Items During Construction:

Delete the wording "as directed by the engineer".

Sheets 17B and 17C have been revised and linked to this addendum in order to include changes to the concrete median barrier details.