Kentucky Transportation Cabinet
Expedited Bridge Replacement Study

PROJECT INFORMATION

County: McCracken
Road Name: Lebanon Church Road
Route Number: KY 1288
Bridge ID: 073B00142N
Bridge MP: 2.746

Highway Plan Project Description:
REPLACE BRIDGE ON KY1288 (Lebanon Church Road) OVER BLIZZARD PONDS DRAINING CANAL, 0.35 MI EAST OF KY1014; (SD, SR = 18.2) 073B00142N

Milepoint: 2.746

- ☑ Roadway classified as collector or local.
- ☑ ADT less than 1,500.
- ☑ Bridge replacement at current location or adjacent to existing bridge.
- ☑ Temporary Traffic Control maintained on existing structure: part-width construction or adjacent temporary traffic control. **Detour: 3.81 miles. **
- ☑ Existing structure's hydraulic performance is adequate.
- ☑ Proposed project is not in a FEMA Zone AE regulatory area. Although the project is in a FEMA Zone AE, Central Office Drainage Branch has reviewed the site and approved its inclusion.

Categorical Exclusion Level 1

Potential for Effects Resulting from Project ☐ None ☑ Low ☐ High

(If effects potential is low or high, describe how project meets CE criteria and means to address outstanding issues)

Project will impact potential habitat for the Indiana bat. The PMOA with the USFWS will be utilized to mitigate those impacts. A LON permit will be required for impacts the the Blizzard Ponds Drainage Channel.
Hazardous material investigations for ACM's in the bridge structure will be dealt with during the design phase. Project will require archaeologiacal investigation during the design phase. Impacts to archaeological sites in considered low and are not considered to adversely effect project schedule.

☑ Reevaluation required prior to construction

The project described above has been determined to meet the Categorical Exclusion criteria established in 23 CFR 771.17 and the FHWA/KYTC Categorical Exclusion Agreement.

Approved by: Blake Beyer — District Environmental Coordinator — October 11, 2013 — Date

☑ Yes, this project meets the conditions for being an Expedited Bridge Replacement Project.

Recommended by: M. D. P. Meer — District TEBM for Project Development

Approved by: _____ — Director, Division of Planning

Programming Information

Item No: _____ *Federal Project No.:* _____
Program No.: _____ *UPN:* (Function) (County #) (Route) (MP to & from)

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I. PROJECT DATA

County: McCracken
Bridge ID: 073B00142N
Road Name: Lebanon Church Road
Bridge MP: 2.746
Route Number: KY 1288

Functional Class.: ☑ Local ☐ Collector ☐ Urban ☑ Rural

Route on ☐ NHS

Truck Class.: A **% Trucks:** _____ **Terrain:** Rolling

ADT (current): 256 2011

MPO Area: Not Applicable

Existing Bike Accommodations: Shared Lane **Ped:** ☐ Sidewalk

Roadway Data:	**Existing**
No. of Lanes	2
Lane Width	9'
Shoulder Width	2'
Max. Superelevation	
Minimum Radius	
Maximum Grade	
Minimum Sight Dist.	
Sidewalk Width(urban)	N/A
Clear-zone	

Bridge Data:

Bridge Number	073B00142N	Existing Rdwy. Plans available?
Sufficiency Rating	18.2	☐ Yes ☑ No
Total Length	70	Year of Plans: _____
Width, curb to curb	16.1	
Span Lengths	21-29-19.5	
Year Built	1975	Existing Geotech data available?
Posted Weight Limit	10 TONS	☐ Yes ☑ No
Structurally Deficient?	Yes	
Functionally Obsolete?	No	

Notes:

II. PROJECT SUMMARY

A. Purpose, Need & Project Estimate

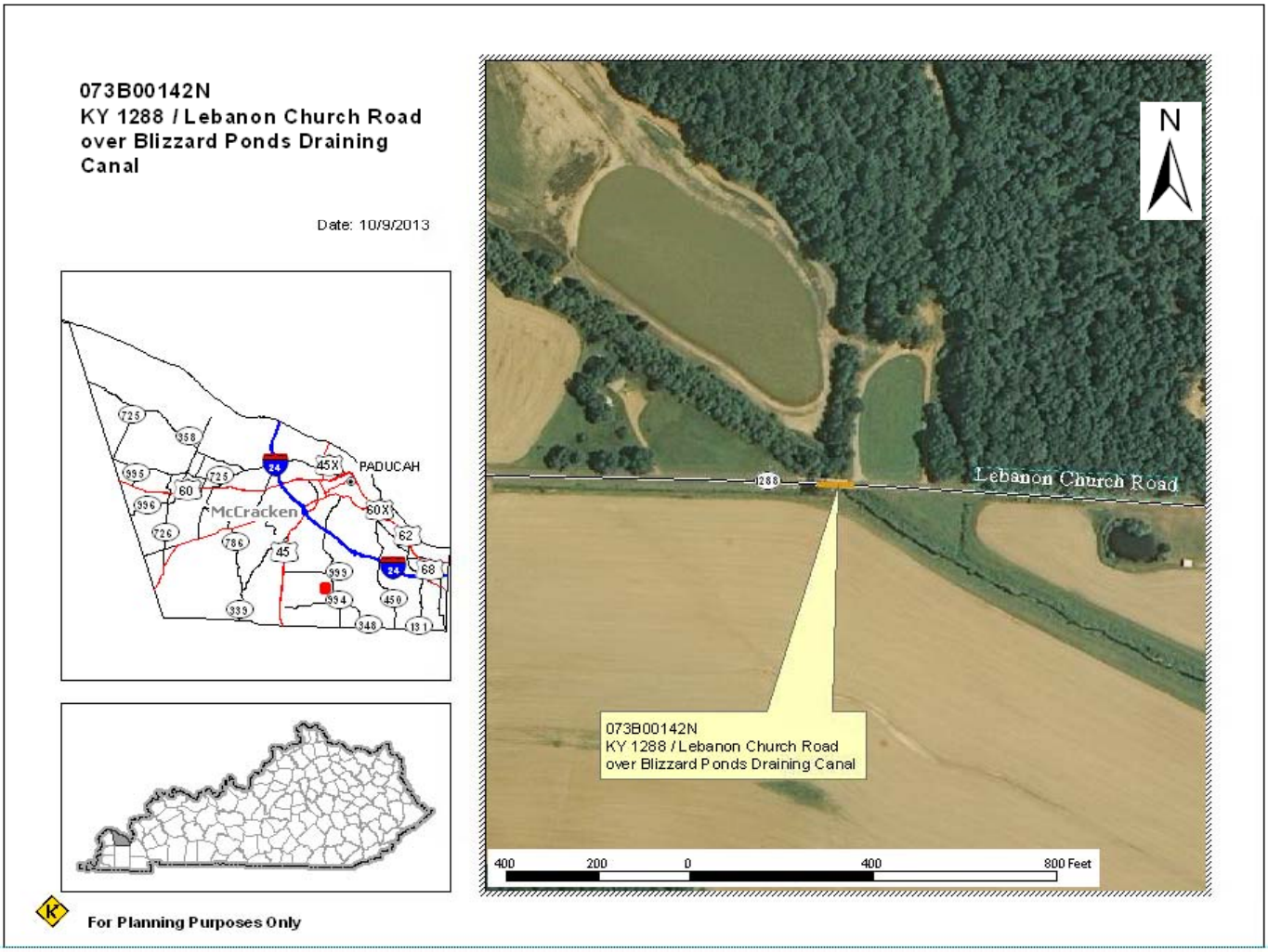
In order to maintain connectivity, the purpose of the project is to replace the deficient bridge.

Project Estimate

Phase	Estimate
Design	$180,000
R/W	$75,000
Utilites	$150,000
Const	$300,000
TOTAL	**$705,000**

B. Project Approach

Replace the two lane rural roadway approaches on KY 1288 / Lebanon Church Road and bridge over Blizzard Ponds Draining Canal in the same location as the existing. Since the existing bridge cannot remain open during construction, the road will be closed to through traffic during construction. Traffic will be detoured onto other roads. Please see Detour Map on Page 4. Detour length is approximately 3.81 miles.



III. Photos and/or Maps

Detour Map (this map can also be found in the ProjectWise folder) Detour Length: 3.81 miles

Bridge Photos (these and more can also be found in the ProjectWise folder)

Looking West

Bridge Deck

Downstream side

Upstream side

IV. Categorical Exclusion Level 1
Summary

Effects Potential (scale of effects and potential to influence project schedule)

None	Potential to significantly affect Air Quality
Low	Potential to significantly affect any cultural or archaeological resources
None	Potential to affect historic properties or other Section 4(f) resources
	☐ can be addressed through standard practices (programmatic agreements, deminimis, etc.)
Low	Potential to significantly impact any federally listed, threatened or endangered species
Low	Potential to significantly effect properties with hazardous materials concerns
Low	Potential to significantly impact Waters of the U.S. or Commonwealth
None	Potential to significantly affect traffic noise
None	Potential to require relocations or other significant socioeconomic impacts (travel patterns, land use, or planned growth)

A. Air Quality

Project is in: ☑ Attainment area ☐ Nonattainment or Maintenance Area ☐ PM 2.5 County

☑ No potential to significantly affect Air Quality (attach PM 2.5 and MSAT documentation, as appropriate or note below intent to complete prior to construction)

Project is in an attainment area. MSAT documentation will be completed prior to construction.

B. Archaeology	Yes	No
1) Is all area to be affected by the project previously disturbed or within existing ROW? (If YES, STOP- Bridge is unlikely to adversely affect archaeological resources)	☐	☑
2) Are known archaeological sites present (project may potentially affect archaeological resources; Discuss with SME and provide comment below)	☐	☑

☐ No effect to archaeological resources

☑ Archaeological resources may be present; investigation to be completed during detailed design. Impacts to archaeological resources are not expected and should not impede project development.

☐ Archaeological impacts are of such potential complexity project schedule is likely to be adversely affected.

Project will require archaeologiacal investigation during the design phase. Impacts to archaeological sites in considered low and are not considered to adversely effect project schedule.

C. Threatened and Endangered Species	Yes	No
1) Is the bridge over a KY DOW Special Use Water or within designated critical habitat? (If YES, STOP- Not eligible for EBRP; If NO, continue)	☐	☑
2) Does the county have federally listed fish and mussel species? (If NO, STOP; If YES, continue)	☑	☐
3) Does the bridge cross a stream with perennial flow? (If NO, STOP - No effect for mussels/fish species; If YES, continue)	☑	☐
4) Are any of the mussel/fish species typically found in smaller rivers and streams? (If NO, STOP; if YES, requires SME review to conduct Habitat Assessment)		
Additional Information required for possible effects assessment: 1) Will the bridge be replaced in the same location as existing? 2) Will the new bridge clear-span the stream?	☐	☑

☑ Biological concerns unlikely to impede project development (For all appropriate species, conduct Habitat Assessment/Biological Assessment prior to construction)

☐ Biological concerns are of such complexity that project schedule is likely to be adversely impacted

Cumberlandia monodonta (spectaclecase) SCM (402) (USFWS)
Cyprogenia stegaria (fanshell) FSM (403) (USFWS)
Epioblasma torulosa torulosa (tubercled blossom) EPTT (424) (KDFWR)
Lampsilis abrupta (pink mucket) PMM (409) (USFWS, KDFWR, KSNPC)
Obovaria retusa (ring pink) RPM (412) (USFWS, KSNPC)
Plethobasus cooperianus (orangefoot pimpleback) OFPM (414) (USFWS, KDFWR, KSNPC)
Plethobasus cyphyus (sheepnose) SNM (415) (USFWS, KDFWR, KSNPC)
Pleurobema clava (clubshell) CM (416) (USFWS)
Pleurobema plenum (rough pigtoe) RPTM (417) (USFWS)
Potamilis capax (fat pocketbook) FPBM (418) (USFWS, KDFWR, KSNPC)
Quadrula cylindrica cylindrica (rabbitsfoot) RFM (430) (KDFWR, KSNPC)
Sternula antillarum athalassos (interior least tern) ILT (802) (USFWS, KSNPC)
Myotis sodalis (Indiana bat) IB (903) (USFWS, KDFWR, KSNPC, KSNPC)
Listed mussel species are typically found in larger higher quality streams than the Blizzard Ponds Drainage Channel. The stream is shallow in nature and at the project location typicall only a few inches deep and less than 10' wide. Another project downstream was recently ruled a "no effect" for mussels and this project is also.
The interior least tern utilizes habitat in or near the Ohio River. No habtat is found within the project area. A "no effect" for interior least tern will be warranted. Potential Indiana bat summer roosting and foraging habitat is found within the project area. Tree removal will be required and the impacted acreage will be mitigated by utilizing the PMOA in place with the USFWS.

D. Hazardous Materials	Yes	No
1) Are potentially contaminated sites present?	☐	☑
2) Does bridge require inspection for asbestos containing materials?	☑	☐

☑ Hazardous materials concerns are non-existent or routine in nature, will be addressed during detailed design and should not impede project development.

☐ Hazardous materials concerns are of such complexity that the project schedule is likely to be adversely affected.

No hazardous material sites were observed within the project area. ACM inspection of the bridge structure will be required.

E. Permitting

Check all that may apply: ☑ Waters of the US ☐ MS4 area ☐ Floodplain Impacts ☐ Navigable Waters Impacted

Are 401/404 Permits likely to be required ☐ Yes ☐ No Impacts to: ☐ Wetlands ☐ Stream/Lake/Pond

☑ ACE LON ☐ ACE NW ☐ General WQC ☐ TVA

	Yes	No
1) Will the project affect more than 300 lf of stream? (If YES, STOP- Not eligible for EBRP; If NO, continue)	☐	☑
2) Will the project effect more than ½ acre of potential wetland? (If YES, STOP- Not eligible for EBRP; If NO, water related impacts not likely to impede project development)	☐	☑

☑ Will not significantly impact Waters of the U.S. or Commonwealth. Stream and wetland impacts, if any, are routine in nature and will not require individual permits; Any required permits will be acquired during detailed design. Project development should not be impeded.

☐ Stream and/or wetland impacts exceed nationwide and general WQC thresholds. Project schedule is likely to be adversely impacted (Not eligible for EBRP).

A LON permit is expected on this project.

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Categorical Exclusion Level 1

F. Noise	Yes	No
1) Are existing or planned noise sensitive receptors adjacent to the proposed project? (If NO, STOP- No effect for Noise Impacts; If YES continue)	☑	☐
2) Is this considered a "Type I Project" according to the KYTC Noise Analysis and Abatement Policy?	☐	☑
☑ No noise related impacts predicted for the project		
☐ Noise related impacts are unlikely but will be further assessed during detailed design prior to construction. Further assessment should not impede project development.		
☐ Noise related impacts are of such complexity that project schedule is likely to be adversely affected.		
Noise impacts on this project will be temporary in nature and will cease upon completion of the project.		

G. Socioeconomic	Yes	No
1) Are there any relocations required for construction of the project? (If YES, STOP- Does not meet criteria for EBRP; If NO Continue)	☐	☑
2) Will project require more than approximately one acre of fee simple R/W? (If YES, STOP- Project Does not meet criteria for EBRP; If NO, continue)	☐	☑
3) Is ROW required from any federal agency?	☐	☑
4) Will project cause disproportionately high and adverse effects on any minority or low-income population in accordance with the provision of E.O. 12898 and FHWA Order 6640.23	☐	☑
5) Will project significantly affect land use, travel patterns or planned growth?	☐	☑
☑ Will have no significant Socioeconomic impacts		
☐ Socioeconomic impacts are unlikely but will be further assessed during detailed design prior to construction. Further assessment should not impede project development.		
☐ Socioeconomic impacts are of such complexity that project schedule may be adversely affected.		
No relocations are expected on this project.Marked detour is approximately 4 miles in length.		

H. Section 106, 4(f) or 6(f) Resources		
The following are present on the project:	Yes	No
1) Does the project affect a park, wildlife refuge or recreation area (If YES, STOP- Not eligible for EBRP; If NO continue)	☐	☑
2) Is the bridge a truss (If YES, STOP- Not eligible for EBRP; if NO continue)	☐	☑
3) Is the bridge or do any of the surrounding properties appear to be greater than 50 years old? (If YES continue; If NO, STOP: No Effect to Historic Properties)	☐	☑
4) Was the bridge constructed after 1945? (If YES continue; If No, STOP- project will require SME review; If YES, continue)	☑	☐
5) Is the bridge of a common type covered by the FHWA Program Comment? (If YES continue; If NO, STOP- project will require SME review)	☐	☐
6) Are there any buildings or potentially important features (wells, barns, cemeteries, etc.) of the surrounding property that are more than 50 years old that will be impacted by the project (If YES, STOP - project will require SME review; If NO, STOP: No Effect/No Adverse Effect to historic properties)	☐	☑
☑ No potential to affect cultural historic resources, Section 4(f) or Section 6(f) resources		
☐ No Potential to affect Section 4(f) or Section 6(f) resources other than cultural historic resources, which can be addressed through standard practices (Programmatic 4(f), deminimis, etc.) and should not impede project development		
☐ Affects to cultural historic resources are of such complexity that the project schedule may be adversely affected		
Bridge was built in approximamtely 1975. No other potentially eligible structures are within the project viewshed.		

V. Additional Photos and/or Maps

Helpful Links:

Detour Map	KY 1288.jpg
Bridge Photos:	073B00142N_2013.pdf
Bridge Report:	073B00142N Bridge Report.pdf
Environmental Photos:	073B00142N Environmental Photos.pdf
Habitat Assessment:	EBRP 073B00142N Habitat Assessment NFX.PDF
Location Map:	073B00142N Location Map.jpg

(A printed version of these documents can be made available to those without Projectwise access.)

Kentucky Transportation Cabinet
Federal Highway Administration

NO EFFECT FINDING

KYTC Item No:	EBRP - 073B00142N	**Route:**	KY1288
Quadrangle(s):	Symsonia	**County(ies):**	McCracken

Project Description: (Type of improvement, areas to be impacted, crossroad improvements, easements, etc.)

REPLACE BRIDGE ON KY1288 (Lebanon Church Road) OVER BLIZZARD PONDS DRAINING CANAL, 0.35 MI EAST OF KY1014; (SD, SR = 18.2) 073B00142N

Listed Species: (Attach copy of USFWS county list, KSNPC web site and KDFWR web site)

Cumberlandia monodonta (spectaclecase) SCM (402) (USFWS)

Cyprogenia stegaria (fanshell) FSM (403) (USFWS)

Epioblasma torulosa torulosa (tubercled blossom) EPTT (424) (KDFWR)

Lampsilis abrupta (pink mucket) PMM (409) (USFWS, KDFWR, KSNPC)

Obovaria retusa (ring pink) RPM (412) (USFWS, KSNPC)

Plethobasus cooperianus (orangefoot pimpleback) OFPM (414) (USFWS, KDFWR, KSNPC)

Plethobasus cyphyus (sheepnose) SNM (415) (USFWS, KDFWR, KSNPC)

Pleurobema clava (clubshell) CM (416) (USFWS)

Pleurobema plenum (rough pigtoe) RPTM (417) (USFWS)

Potamilis capax (fat pocketbook) FPBM (418) (USFWS, KDFWR, KSNPC)

Quadrula cylindrica cylindrica (rabbitsfoot) RFM (430) (KDFWR, KSNPC)

Sternula antillarum athalassos (interior least tern) ILT (802) (USFWS, KSNPC)

Myotis sodalis (Indiana bat) IB (903) (USFWS, KDFWR, KSNPC, KSNPC)

Methodologies: (Methods of assessment, who, what, when, resources, etc.)ARCMap, species range documentation

A habitat assessment was performed on site by D1 Environmental Scientist Blake Beyer on September 20, 2013. USGS topographic and geologic maps were reviewed for cave bearing strata and proximity to the project area. During the onsite investigation impacted areas were compared to needed habitat for the listed species.

Results: (Compare habitat used by listed species with available habitat)

Blizzard Pond Drainage Channel is a small stream with a sand gravel substrate. It is not a high quality stream and as the name indicates it has been channelized with levees/berms along a large portion around the project area. The stream does not contain habitat for the listed mussel species. A No Effect is in order for the listed mussels.

The interior least tern uses sandbars and large fields along the Ohio River. There is no habitat available for the interior least tern. A No Effect is also in order for this species.

Potential Indiana bat summer roosting and foraging habitat is found within the project area. Tree removal will be required and the impacted acreage will be mitigated by utilizing the PMOA in place with the USFWS.

Determinations: No Habitat, No Effect for all species listed.

The project has been assessed in accordance with the provisions of Section 7 of the Endangered Species Act. As a designated representative of the FHWA, the KYTC has determined that the project will have No Effect on any listed species or their critical habitat, and further Section 7(a)(2) consultation with the Service is not required.

Blake Beyer
KYTC Signature

4 October 2013
Date

Blake Beyer
Print Name

EATS updated

Name Date