

MEMORANDUM

March 14, 2013

TO: File

FROM: Tom Kehoe - Sr. Environmental Resource Specialist
Christopher B. Burke Engineering, Ltd.

SUBJECT: Section 7 Endangered Species Act Consultation – Church Property Flood Control Basin Site in the Village of Bartlett, Cook County, Illinois

Christopher B. Burke Engineering, Ltd. (CBBEL) reviewed the proposed project site in relation to the U.S. Fish and Wildlife technical assistance website for Federally-listed threatened and endangered species. According to the website, 6 species are listed and may be present in Cook County: Piping plover, Eastern prairie fringed orchid, Hine's emerald dragonfly, leafy-prairie clover, Mead's milkweed, and prairie bush clover. A survey for potential habitat for above species was performed within the study area during our March 13, 2013 site visit. The following lists our findings for each species and their habitat:

Piping plover:

Piping plover habitat generally consists of wide, flat, open, sandy beaches with very little grass or other vegetation. The project area, comprised of a flat parcel of vacant land in the Village of Bartlett, does not have the open, sandy beaches necessary to support the species. It can be assumed that the piping plover would not exist in the study area.

Hine's emerald dragonfly:

According to the USFWS Species' Information pages, the Hine's emerald dragonfly (HED) lives in calcareous spring-fed marshes and sedge meadows overlaying dolomite bedrock. It also prefers seeps, slow-moving rivulets, cool, shallow water slowly flowing through vegetation, open areas in close proximity to the forest edge and within graminoid dominated wetlands. Suitable HED habitat has not been identified anywhere within the Bartlett region. Additionally, the project areas are not within known and mapped HED Critical Habitat.

Eastern prairie fringed orchid:

The eastern prairie fringed orchid occurs in a wide variety of habitats, all of which are restricted to high-quality wetland areas including sedge meadows, marshes, wet prairies and fens. There are no high



CHRISTOPHER B. BURKE ENGINEERING, LTD.

9575 W Higgins Road, Suite 600 Rosemont, Illinois 60018-4920 Tel (847) 823-0500 Fax (847) 823-0520

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quality wetland areas within the project area and therefore it can be assumed that suitable habitat for the eastern prairie fringed orchid does not exist.

Leafy-prairie clover:

The leafy-prairie clover is found in prairie remnants along the Des Plaines River and dolomite prairie communities in northeastern Illinois. Prairie remnants and dolomite prairies are not located within the project area and it is therefore unlikely that the leafy-prairie clover would be present.

Mead's milkweed:

Mead's milkweed occurs in tallgrass prairie, hay meadows, and in thin soil glades or barrens. Currently this species is only found in areas where it has been planted in the late 1990s such as the Midewin Prairie and West Chicago Prairie where recent searches did not reveal any surviving plants. It is highly unlikely Mead's milkweed would occur within the project area.

Prairie bush clover:

Prairie bush clover is found only in tallgrass prairie regions. As this habitat does not exist within the project area, it is highly unlikely that prairie bush clover would be found.

CBBEL has determined that critical habitat for listed species in Cook County does not exist within the project area, therefore we conclude the project will have "no effect" on listed species, their habitats, or proposed or designated critical habitat.



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MEMORANDUM

March 12, 2013

TO: File

FROM: Tom Kehoe - Sr. Environmental Resource Specialist
Christopher B. Burke Engineering, Ltd.

SUBJECT: Section 7 Endangered Species Act Consultation – Village of Bartlett
Stormwater Retention Project in Bartlett and Streamwood, Cook County, Illinois

Christopher B. Burke Engineering, Ltd. (CBBEL) reviewed the proposed project in relation to the U.S. Fish and Wildlife technical assistance website for Federally-listed threatened and endangered species. According to the website, 6 species are listed and may be present in Cook County: Piping plover, Eastern prairie fringed orchid, Hine's emerald dragonfly, leafy-prairie clover, Mead's milkweed, and prairie bush clover. The following lists our findings for each species and their habitat:

Piping plover:

Piping plover habitat generally consists of wide, flat, open, sandy beaches with very little grass or other vegetation. The project areas, comprised of parcels located in both the Village of Bartlett and the Village of Streamwood, are within residential areas and do not have the open, sandy beaches necessary to support the species. It can be assumed that the piping plover would not exist in the study area.

Hine's emerald dragonfly:

According to the USFWS Species' Information pages, the Hine's emerald dragonfly (HED) lives in calcareous spring-fed marshes and sedge meadows overlaying dolomite bedrock. It also prefers seeps, slow-moving rivulets, cool, shallow water slowly flowing through vegetation, open areas in close proximity to the forest edge and within graminoid dominated wetlands. Suitable HED habitat has not been identified anywhere within the Bartlett/Streamwood region. Additionally, the project areas are not within known and mapped HED Critical Habitat.

Eastern prairie fringed orchid:

The eastern prairie fringed orchid occurs in a wide variety of habitats, all of which are restricted to high-quality wetland areas including sedge meadows,



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marshes, wet prairies and fens. There are no high quality wetland areas within the project area and therefore it can be assumed that suitable habitat for the eastern prairie fringed orchid does not exist.

Leafy-prairie clover:

The leafy-prairie clover is found in prairie remnants along the Des Plaines River and dolomite prairie communities in northeastern Illinois. Prairie remnants and dolomite prairies are not located within the project area and it is therefore unlikely that the leafy-prairie clover would be present.

Mead's milkweed:

Mead's milkweed occurs in tallgrass prairie, hay meadows, and in thin soil glades or barrens. Currently this species is only found in areas where it has been planted in the late 1990s such as the Midwin Prairie and West Chicago Prairie where recent searches did not reveal any surviving plants. It is highly unlikely Mead's milkweed would occur within the project area.

Prairie bush clover:

Prairie bush clover is found only in tallgrass prairie regions. As this habitat does not exist within the project area, it is highly unlikely that prairie bush clover would be found.

CBBEL has determined that critical habitat for listed species in Cook County does not exist within the project area, therefore we conclude the project will have "no effect" on listed species, their habitats, or proposed or designated critical habitat.



U.S. Department of Homeland Security
Federal Emergency Management Agency
536 S. Clark St., 6th Floor
Chicago, Illinois 60605-1521



FEMA

February 25, 2013

Anne E. Haaker
Deputy State Historic Preservation Officer
Preservation Services Division
Illinois Historic Preservation Agency
1 Old State Capitol Plaza
Springfield, Illinois 62701-1507

Re: Bartlett Storm Water Management Sewer and Water Retention Enhancements
Cook County, Illinois (1935.16-R)

Dear Ms Haaker:

Pursuant to Section 106 of the National Historic a Preservation Act, I am writing this letter to initiate and conclude consultation regarding the captioned undertaking. The Federal Emergency Management Agency (FEMA), using federal funding, plans to fund the captioned storm water management project in Cook County, Illinois.

In accordance with 36 CFR §800.11, I am enclosing documentation describing the undertaking, the affected properties, and the undertaking's effects on historic properties. The documentation provides the justification for FEMA's finding that this undertaking will not affect historic properties. The purpose of this communication is to establish the SHPO's concurrence in these findings.

If you have questions or comments please contact me at nicholas.mueller@fema.dhs.gov or 312-408-5438. Please provide your final response by email, fax or mail. Pursuant to 36 CFR §800.3(c)(4), if we receive no response from your office within thirty (30) days, we will assume your concurrence with our findings. For your convenience, we have included a response area below.

Sincerely,

A handwritten signature in black ink, appearing to read "Nicholas Mueller".

Nicholas Mueller
Regional Environmental Officer
FEMA Region V

enclosures

+++++++You may fax this page to 312-408-5551, attn: Nic Mueller+++++++

Re: Bartlett Storm Water Management Sewer and Water Retention Enhancements
Cook County, Illinois (1935.16-R)

- Under the authority of the National Historic Preservation Act of 1966, as amended, the Illinois State Historic Preservation Office *concurs* with FEMA's determination that this undertaking will result in *no historic properties affected*.
- Under the authority of the National Historic Preservation Act of 1966, as amended, the Illinois State Historic Preservation Office *objects* to FEMA's determination that this undertaking will result in *no historic properties affected* for the reasons noted below.

Anne Haaker
Deputy State Historic Preservation Officer

Date



FEMA

February 25, 2013

***Bartlett Storm Water Management
Sewer and Water Retention Enhancements
1935.16-R
Cook County, Illinois***

**Description of
Undertaking and
Identification of the
APE:**

In order to improve flood water management and to avoid damage from future flood events, the Village of Bartlett proposes the following improvements.

At Taylor Avenue between Marion and Berteau Avenues:

- Construct a low berm (to EL = 793 ft over the current 790 to 792 ft)
- Install high-capacity inlets at the low point on Crest Avenue, with new 15", 18" and 24" sewer pipes, totaling approximately 175 feet, connecting to currently installed storm sewers.
- Install a Tideflex valve near the junction of the new and existing lines.

At East Morse Avenue between Chase and Hale Avenues:

- Install a Tideflex valve in existing 18" sewer line.

At the Parcel bounded by East North and North Prospect Avenues:

- Develop a flood storage facility capable of handling 112 ac-ft (36 million gallons).

At the Parcel bounded by the Chicago Milwaukee St. Paul Railroad Tracks and North Prospect Avenue:

- Develop a flood storage facility capable of handling 15.6 ac-ft (5 million gallons).
- Install approximately 35 linear feet of 36" sewer pipe connecting existing sewers with the new detention facility
- Install two flapgates in new and existing sewer lines

Near the intersection of Newport Lane and Crescent Court:

- Install approximately 400 linear feet of 30" sewer pipe.

With the exception of the two retention facilities, work will be done in previously-disturbed road right-of-ways or existing utility corridors.

The area of potential effects (APE) for this project includes the area of ground disturbance at each site. Surrounding development is largely contemporary, dating from the mid-20th century onwards, so no visual or other indirect effects on historic properties are expected.

**Steps Taken to
Identify Historic
Properties:**

The nearest properties listed on the National Register of Historic Places are in Elgin, Illinois, approximately six miles northwest of Bartlett. HARGIS shows a high-probability archaeological area west of the undertaking site, as well as a number of properties recorded in historic resource surveys, also west of the undertaking site (see map included in this submission). None of these properties are within the APEs for this undertaking.

With regards to potential archaeological resources, the three areas subject to ground disturbance for sewer line installation all consist of previously-disturbed road right-of-ways or utility corridors, making the likelihood of discovering intact artifacts in those areas highly improbable.

Although there is a high-probability archaeological site within a mile and a half of the proposed water retention facilities, records show the installation of drainage tiles through the center of the two areas. Information from local engineers indicates these tiles would normally be installed at a depth of 60 inches, and that the tile at the railroad tracks was broken when the tracks were constructed in the early 1950s. USGS topographic maps that show the shifting of wetlands from south of the recorded tile installation to north of the tracks after the 1950s corroborate verbal and written records of the installation of these tiles in the early 1900s. Given these facts of previous ground disturbance, it is unlikely that the proposed locations for these retention facilities would yield significant archaeological artifacts.

**Determination of
Eligibility:**

FEMA has determined that no properties within the APEs for this undertaking are *eligible for listing in the National Register of Historic Places*.

Finding:

FEMA finds that *no historic properties will be affected* by this undertaking.



**Illinois Historic
Preservation Agency**

1 Old State Capitol Plaza • Springfield, Illinois 62701-1512 • www.illinois-history.gov

Cook County
Bartlett

PLEASE REFER TO: IHPA LOG #033022513

Various locations throughout village
FEMA-1935.16-R
Storm water management sewer & water retention enhancements

March 11, 2013

Nicholas Mueller
U.S. Department of Homeland Security
Federal Emergency Management Agency
536 S. Clark St., 6th Floor
Chicago, IL 60605-1521

Dear Mr. Mueller:

We have reviewed the documentation submitted for the referenced project(s) in accordance with 36 CFR Part 800.4. Based upon the information provided, no historic properties are affected. We, therefore, have no objection to the undertaking proceeding as planned.

Please retain this letter in your files as evidence of compliance with section 106 of the National Historic Preservation Act of 1966, as amended. This clearance remains in effect for two (2) years from date of issuance. It does not pertain to any discovery during construction, nor is it a clearance for purposes of the Illinois Human Skeletal Remains Protection Act (20 ILCS 3440).

If you are an applicant, please submit a copy of this letter to the state or federal agency from which you obtain any permit, license, grant, or other assistance.

Sincerely,

Anne E. Haaker

Anne E. Haaker
Deputy State Historic
Preservation Officer