



Community Development Block Grant

301 W. High Street, Room 770

PO Box 118

Jefferson City, MO 65102

2015 ENVIRONMENTAL ASSESSMENT

[\S 58.30]

PROJECT NAME	CDBG PROJECT # (IF FUNDED)
RESPONSIBLE ENTITY/GRANTEE LOCATION [24 CFR 58.2(A)(7)(II)]	RE TELEPHONE NUMBER
CERTIFYING OFFICER NAME, TITLE & EMAIL [24 CFR 58.2(A)(2)]	
ERR PREPARER NAME, ADDRESS, TELEPHONE & EMAIL	

CDBG ENVIRONMENTAL ASSESSMENT

PROJECT LOCATION/ADDRESS

ESTIMATED TOTAL PROJECT COST- ALL SOURCES & AMOUNTS

Total Project Cost: _____

CDBG Funds:

Other State Funds:

Local Cash Contribution:

Federal Funds:

Private Contribution:

In-Kind Contribution:

RESPONSIBLE ENTITY PROJECT CONTACT NAME, ADDRESS, TELEPHONE & EMAIL

NAME OF GRANT SUB-RECIPIENT, IF APPLICABLE N/A

SUB-RECIPIENT CONTACT PERSON, ADDRESS, TELEPHONE & EMAIL

CONDITIONS FOR APPROVAL [24 CFR 58.40(d), 40 CFR 1505.2(c) and 40 CFR 1508.20] *As appropriate:* (List all mitigation and project modification measures, including permits, adopted by the Responsible Entity to eliminate or minimize adverse environmental impacts. These conditions must be included in project contracts and all relevant agreement documents.) Attach additional pages as necessary.

CDBG ENVIRONMENTAL ASSESSMENT

FINDING: [58.40(g)]

- Finding of No Significant Impact (FONSI)**
The project will not result in a significant impact on the quality of the human environment.

- Finding of No Significant Impact (FONSI) with Conditions for Approval**
The project will not result in a significant impact on the quality of the human environment. Mitigation and project modification measures, as listed under ‘Conditions for Approval’, will be adopted by the Responsible Entity to eliminate or minimize adverse environmental impacts.

- Finding of Significant Impact**
The project may significantly affect the quality of the human environment. The project must be rejected unless the Responsible Entity completes an Environmental Impact Statement.

In my capacity as *Environmental Preparer* as designated by the Responsible Entity, I hereby attest that the Environmental Assessment document is true and complete to the best of my knowledge and supports the Finding indicated above:

PREPARER SIGNATURE	DATE
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PREPARER NAME & TITLE

PREPARER’S AGENCY (IF DIFFERENT FROM RE)

In my capacity as *Certifying Officer* on behalf of the *Responsible Entity* and in conformance with 24 CFR Part 58, I have independently reviewed the Environmental Assessment prepared by the above-designated individual, and supplemented the information where appropriate. On behalf of the Responsible Entity, I assume responsibility for the accuracy of the information contained herein and approve the Finding and conditions indicated above:

RE APPROVING OFFICIAL SIGNATURE	DATE
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RE APPROVING OFFICIAL NAME & TITLE

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Description of the Project: [24 CFR 58.32, 40 CFR 1508.25] Include all contemplated actions proposed by all funding sources as part of the project. Attach additional descriptive information, including scaled location map, U.S.G.S. topographic map, aerial photograph, site plans, renderings, color photographs, budgets, etc. Attach additional pages as necessary.

Existing Conditions and Trends: [24 CFR 58.40(a)] Describe existing conditions of the project area and its surroundings, and the trends likely to continue in absence of the project.

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Examination of Project Alternatives: [24 CFR 58.40(d)&(e)] Explain ALL alternatives considered including alternative project activities, sites, designs, plans, etc. and how the determination was made to implement the chosen alternative. Include no action and/or no project. (*Refer to the preliminary engineering and/or architectural report. Add pages as needed.*)

Citizen Participation: [40CFR 1506.6] Indicate how the public has been informed or plan to be informed of the proposed project and its potential environmental impacts. Explain if adverse comments have been received and how issues were resolved. [*Public hearings and meetings, published notices including affidavits of publication or newspapers, posted notices certified by chief elected official, newspaper articles (copies or original articles), printed website information, etc.*] Attach all supporting documentation.

**CDBG ENVIRONMENTAL ASSESSMENT
SUMMARY OF ENVIRONMENTAL REVIEW**

Impact Codes: 1=No impact anticipated 2=Potentially beneficial 3=Potentially adverse 4=Requires Mitigation 5=Requires project modification 6=Permit Required

Environmental Impact	Code	Source Documentation
Historic Properties (SHPO & Tribal contacts)		
Floodplain Management		
Flood Insurance		
Wetlands Protection		
Coastal Zones		
Airport Hazards		
Endangered Species		
Wild & Scenic Rivers		
Farmland Protection		
Noise Control		
Explosive/Flammable Operations		
Water Quality		
Air Quality		

**CDBG ENVIRONMENTAL ASSESSMENT
SUMMARY OF ENVIRONMENTAL REVIEW**

Impact Codes: 1=No impact anticipated 2=Potentially beneficial 3=Potentially adverse 4=Requires Mitigation 5=Requires project modification 6=Permit Required

Environmental Impact	Code	Source Documentation
Contamination/Toxic Materials		
Environmental Justice		
Land Development		
Community Facilities & Services		
Wastewater		
Solid Waste		
Storm Water Drainage		
Lead Based Paint		
Asbestos		
Energy Consumption		
Other(s):		
Other(s):		

CDBG ENVIRONMENTAL ASSESSMENT														
FIELD VISIT CHECKLIST & SITE EVALUATION														
Date of Visit:	Time:	Weather Conditions:												
Grantee/Applicant:														
Project Name:		CDBG Project # (if funded):												
Project Location/Address:														
Project Area Bounded By:														
Site Dimensions:														
Site Owner(s):														
Field Visit Conducted By:														
<u>Attach the following:</u> <ul style="list-style-type: none"> ▪ Photographs of site and surrounding areas ▪ Maps (street, topographic, aerial, etc.) 														
EXISTING ENVIRONMENTAL CONDITIONS ON & AROUND SITE:														
Land Use/Zoning - check all that apply: <table style="width: 100%; border: none;"> <tr> <td><input type="checkbox"/> Residential</td> <td><input type="checkbox"/> Retail</td> <td><input type="checkbox"/> Never Developed</td> <td><input type="checkbox"/> Light Industrial</td> </tr> <tr> <td><input type="checkbox"/> Recreational</td> <td><input type="checkbox"/> Commercial</td> <td><input type="checkbox"/> Heavy industrial</td> <td><input type="checkbox"/> Currently Farmed</td> </tr> <tr> <td><input type="checkbox"/> Forest</td> <td><input type="checkbox"/> Pasture</td> <td><input type="checkbox"/> Conservation Area</td> <td><input type="checkbox"/> Other _____</td> </tr> </table>			<input type="checkbox"/> Residential	<input type="checkbox"/> Retail	<input type="checkbox"/> Never Developed	<input type="checkbox"/> Light Industrial	<input type="checkbox"/> Recreational	<input type="checkbox"/> Commercial	<input type="checkbox"/> Heavy industrial	<input type="checkbox"/> Currently Farmed	<input type="checkbox"/> Forest	<input type="checkbox"/> Pasture	<input type="checkbox"/> Conservation Area	<input type="checkbox"/> Other _____
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<input type="checkbox"/> Forest	<input type="checkbox"/> Pasture	<input type="checkbox"/> Conservation Area	<input type="checkbox"/> Other _____											
Description of Existing Conditions: (Explain in detail and attach additional pages as necessary.)														
Site Features and Topography: (i.e., elevations, unique natural features, site slope, ravines, banks, mounds, caverns, cliffs, hills, depressions, erosion, sedimentation, drainage paths, etc.)														
Describe Site Access – Ingress & Egress: (Ease of accessing and exiting site, traffic control at site, safety and line of site, etc.)														
Interviews Conducted: (Include names and titles of interviewees)														

CDBG ENVIRONMENTAL ASSESSMENT

FIELD VISIT CHECKLIST & SITE EVALUATION

Existing infrastructure on or near site - check all that apply and comment as appropriate:

<input type="checkbox"/> Unpaved Roads Condition:	<input type="checkbox"/> Railroad Facilities/Tracks/Spurs Condition:
<input type="checkbox"/> Paved Roads Condition:	<input type="checkbox"/> Fencing/Security Condition:
<input type="checkbox"/> Sidewalks Condition:	<input type="checkbox"/> Culverts Condition:
<input type="checkbox"/> Crosswalks Condition:	<input type="checkbox"/> Drop Inlets Condition:
<input type="checkbox"/> Curb/Guttering Condition:	<input type="checkbox"/> Bridges Condition:
<input type="checkbox"/> Ditches Condition:	<input type="checkbox"/> Water Treatment Facility Condition:
<input type="checkbox"/> Water Lines	<input type="checkbox"/> Centralized Sewer System
<input type="checkbox"/> Water Wells	<input type="checkbox"/> Street Lights
<input type="checkbox"/> Parking Facilities Condition:	<input type="checkbox"/> Sewer Treatment Facilities Condition:
<input type="checkbox"/> Intersections Condition:	<input type="checkbox"/> Septic Tanks/Systems Condition:
<input type="checkbox"/> Bike/Pedestrian Lanes/Paths	<input type="checkbox"/> Fire Hydrants
<input type="checkbox"/> Electricity	<input type="checkbox"/> 911 Emergency Systems
<input type="checkbox"/> Traffic Signs	<input type="checkbox"/> Traffic Lights
<input type="checkbox"/> Gas Lines	<input type="checkbox"/> Other

Check all that exist on or in close proximity to the project site. The importance of the proximity depends on the nature of the project. Further evaluation and documentation may be warranted if there is potential for environmental concerns.

<input type="checkbox"/> Airport/Airport Clear Zones	<input type="checkbox"/> Former/Current/Proposed EPA Superfund Site	<input type="checkbox"/> Parks/Playgrounds
<input type="checkbox"/> Ambulance Facility	<input type="checkbox"/> Funeral Home	<input type="checkbox"/> Paint Facilities
<input type="checkbox"/> Animal Processing Plant	<input type="checkbox"/> Gas Station	<input type="checkbox"/> Police Station
<input type="checkbox"/> Apartments/Multi-Family	<input type="checkbox"/> Grocery Store	<input type="checkbox"/> Power Station/Transformer
<input type="checkbox"/> Arts/Cultural Center	<input type="checkbox"/> Group Home	<input type="checkbox"/> Printing Facilities
<input type="checkbox"/> Auto Repair Shop	<input type="checkbox"/> Heavily Traveled Roads	<input type="checkbox"/> Prison/Jail/Detention Center
<input type="checkbox"/> Bio-diesel Facility	<input type="checkbox"/> Heavy/Light Manufacturing Facilities	<input type="checkbox"/> Quarry
<input type="checkbox"/> Bus Stop/Station	<input type="checkbox"/> Highways – Interstate/State	<input type="checkbox"/> Recycling Facilities
<input type="checkbox"/> Car Dealership	<input type="checkbox"/> Historical Sites/Buildings	<input type="checkbox"/> Restaurants
<input type="checkbox"/> Cemeteries	<input type="checkbox"/> Hospitals	<input type="checkbox"/> Retaining Walls
<input type="checkbox"/> Chemical Manufacturer	<input type="checkbox"/> Industrial Park	<input type="checkbox"/> Rivers/ Streams/Creeks
<input type="checkbox"/> Churches	<input type="checkbox"/> Lakes/Ponds	<input type="checkbox"/> Schools
<input type="checkbox"/> Car Dealership	<input type="checkbox"/> Library	<input type="checkbox"/> Senior Center
<input type="checkbox"/> Community Center	<input type="checkbox"/> Low Income Housing	<input type="checkbox"/> Senior Housing
<input type="checkbox"/> Conservation Areas	<input type="checkbox"/> Medical/Health Clinic	<input type="checkbox"/> Sheltered Workshop
<input type="checkbox"/> Daycare Center	<input type="checkbox"/> Museum	<input type="checkbox"/> Shopping Centers
<input type="checkbox"/> Doctor's Office/Health Clinic	<input type="checkbox"/> Neighborhoods	<input type="checkbox"/> Storage/Use of Explosives
<input type="checkbox"/> Dry Cleaners	<input type="checkbox"/> Nursing Homes	<input type="checkbox"/> Train Depot
<input type="checkbox"/> Ethanol Plant	<input type="checkbox"/> Office Buildings	<input type="checkbox"/> Veterinary Clinic/Hospital
<input type="checkbox"/> Fire Station	<input type="checkbox"/> Open Spaces	<input type="checkbox"/> Youth Center

CDBG ENVIRONMENTAL ASSESSMENT

FIELD VISIT CHECKLIST & SITE EVALUATION

Contamination & Toxic Materials

QUESTION	SUBJECT PROPERTY	ADJOINING PROPERTIES
<i>Is there evidence of any of the following?</i>		
A. Is the property or any adjoining property currently used, or has evidence of prior use, as a gasoline station, motor vehicle repair facility, printing facility, dry cleaners, photo developing laboratory, junkyard, or as a waste treatment, storage, disposal, processing or recycling facility?	<input type="checkbox"/> YES <input type="checkbox"/> NO <input type="checkbox"/> UNKNOWN	<input type="checkbox"/> YES <input type="checkbox"/> NO <input type="checkbox"/> UNKNOWN
B. Are there any damaged or discarded automobile(s), automotive or industrial batteries, pesticides, paints, or other chemicals in individual containers greater than 5 gal in volume or 50 gal in the aggregate, stored on or used at the property or adjoining properties?	<input type="checkbox"/> YES <input type="checkbox"/> NO <input type="checkbox"/> UNKNOWN	<input type="checkbox"/> YES <input type="checkbox"/> NO <input type="checkbox"/> UNKNOWN
C. Are there any industrial drums (typically 55 gal) or sack of chemicals, herbicides or pesticides located on the property or adjoining properties?	<input type="checkbox"/> YES <input type="checkbox"/> NO <input type="checkbox"/> UNKNOWN	<input type="checkbox"/> YES <input type="checkbox"/> NO <input type="checkbox"/> UNKNOWN
D. Has fill dirt been brought onto the property or adjoining properties that originated from a suspicious site or that is of an unknown origin?	<input type="checkbox"/> YES <input type="checkbox"/> NO <input type="checkbox"/> UNKNOWN	<input type="checkbox"/> YES <input type="checkbox"/> NO <input type="checkbox"/> UNKNOWN
E. Are there any pits, ponds, or lagoons located on the property or adjoining properties in connection with waste treatment or waste disposal?	<input type="checkbox"/> YES <input type="checkbox"/> NO <input type="checkbox"/> UNKNOWN	<input type="checkbox"/> YES <input type="checkbox"/> NO <input type="checkbox"/> UNKNOWN
F. Is there any stained soil, distressed vegetation and/or discolored water on the property or adjoining properties?	<input type="checkbox"/> YES <input type="checkbox"/> NO <input type="checkbox"/> UNKNOWN	<input type="checkbox"/> YES <input type="checkbox"/> NO <input type="checkbox"/> UNKNOWN
G. Are there any storage tanks , aboveground or underground (other than residential), located on the property or adjoining properties within 1 mile of site?	<input type="checkbox"/> YES <input type="checkbox"/> NO <input type="checkbox"/> UNKNOWN	<input type="checkbox"/> YES <input type="checkbox"/> NO <input type="checkbox"/> UNKNOWN
H. Are there any vent pipes, fill pipes, or underground tank access ways visible on the property or adjoining properties	<input type="checkbox"/> YES <input type="checkbox"/> NO <input type="checkbox"/> UNKNOWN	<input type="checkbox"/> YES <input type="checkbox"/> NO <input type="checkbox"/> UNKNOWN
I. Are there any flooring, drains, walls, ceilings, or grounds on the property or adjoining properties stained by substances (other than water) or emitting noxious or foul odors of a chemical nature?	<input type="checkbox"/> YES <input type="checkbox"/> NO <input type="checkbox"/> UNKNOWN	<input type="checkbox"/> YES <input type="checkbox"/> NO <input type="checkbox"/> UNKNOWN
J. Is the property served by a private well or non-public water system? (If yes, a follow-up investigation is required to determine if contaminants have been identified in the well or system that exceeds guidelines applicable to the water system, or if the well has been designated contaminated by any government environmental/health agency.)	<input type="checkbox"/> YES <input type="checkbox"/> NO <input type="checkbox"/> UNKNOWN	
K. Has the owner or occupant of the property been informed of the existence of past or current hazardous substances or petroleum products or environmental violations with respect to the property or adjoining properties?	<input type="checkbox"/> YES <input type="checkbox"/> NO <input type="checkbox"/> UNKNOWN	<input type="checkbox"/> YES <input type="checkbox"/> NO <input type="checkbox"/> UNKNOWN
L. Do the property or adjoining properties discharge wastewater (not including sanitary waste or storm water) onto the property or adjoining properties and/or into a storm water system?	<input type="checkbox"/> YES <input type="checkbox"/> NO <input type="checkbox"/> UNKNOWN	<input type="checkbox"/> YES <input type="checkbox"/> NO <input type="checkbox"/> UNKNOWN
M. Is there a transformer, capacitor, or any hydraulic equipment on the property or adjoining properties that are not marked as “non-PCB”?	<input type="checkbox"/> YES <input type="checkbox"/> NO <input type="checkbox"/> UNKNOWN	<input type="checkbox"/> YES <input type="checkbox"/> NO <input type="checkbox"/> UNKNOWN

CDBG ENVIRONMENTAL ASSESSMENT

FIELD VISIT CHECKLIST & SITE EVALUATION

**If answering "YES" or "UNKNOWN" to any above items, explain and describe the conditions:
Use photographs and maps to mark and identify conditions. Attach more information as needed.**

Is further evaluation warranted for determining the presence of contamination? YES NO

Preparer of this form must complete the following required information.

Inspection completed by:

Address:

Name:

Title:

Email:

Agency:

Phone Number:

Preparer represents that to the best of his/her knowledge the above statements and facts are true and correct and to the best of his/her actual knowledge no material facts have been suppressed, omitted or misstated.

Signature:

Date:

CDBG ENVIRONMENTAL ASSESSMENT

HISTORIC PROPERTIES
(Historic Preservation Act 16 U.S.C. 470 & 36 CFR Part 800)

[Section 106 Project Information Form](#); [MO SHPO Website](#)

1. Is any property in the project listed or eligible for listing on the National Register of Historic Places? *(Print information from websites and attach)* YES NO
[National Historic Landmarks](#)
[MO National Register Listing](#) - by County

2. Is any property in the project located within or directly adjacent to a historic property? YES NO

3. If a tiered review, was SHPO notified that site-specific reviews will be completed as activities and properties are known? N/A YES NO

4. Is fill material required for the project? YES NO
If Yes, has the location of the fill been reviewed by the SHPO? YES NO

5. Has the RE provided adequate public involvement for identifying and assessing impacts to historic properties consistent with 36 CFR Part 800.2(d)? YES NO
Check all that apply and attach: Public Notices Public Hearing Minutes Direct Mail
 Newspapers/Newsletters Postings (websites, high traffic buildings, neighborhoods, etc.)

6. Based on completion of the Determination to Consult with Tribes Under Section 106 form, is consultation with Tribes required? *(Form located on the following page.)* YES NO

7. According to HUD's Tribal Directory Assessment Tool, are there Tribes listed for the county in which the project is to occur? [HUD TDAT](#) YES NO
Print and attach web page(s) as documentation.
In response to submission of project information, did any Tribes issue a comment of concern, request more information, consultation, and/or a survey? N/A YES NO
Attach all correspondence.

8. Is a cultural resource survey required as part of the Section 106 Review? YES NO
If YES, check the appropriate box or boxes.
 Architectural Survey Completed – Date of SHPO acceptance letter: _____
 Archaeological Survey Completed – Date of SHPO acceptance letter: _____

9. **SHPO Project Number Assigned:** _____

10. **Result of Section 106 Review:** *Attach Section 106 form, including attachments*
 No Historic Properties Affected - Date of SHPO Letter(s): _____
 No Adverse Affect – Date of SHPO Letter(s): _____
 No Adverse Effect With Conditions – Date of SHPO Letter(s): _____
Date of SHPO acceptance letter: _____
 Adverse Affect - Date of SHPO Letter(s): _____
[Project either rejected or requires Memorandum of Agreement (MOA)]

CDBG ENVIRONMENTAL ASSESSMENT

11. **MOA** (*Attach SHPO acceptance once received and final copy of MOA*) **Check all** N/A – MOA Not Required
Check all that apply:

- ACHP notified (*Must be contacted prior to executing MOA*)
 - ACHP chooses to participate ACHP chooses not to participate
- Indian Tribes Notified - N/A – No Tribes Identified with interest in the project county
 - One or more Tribes choose to participate in the MOA No Tribal choose to participate
- All stipulations may be completed and approved by SHPO prior to beginning any physical project activities
- MOA Stipulations Complete and Accepted by the SHPO – Date of SHPO letter: _____

12. **Has compliance with Section 106 been met?** YES NO

If NO, explain why:

SHPO STAFF:

Judith Deel, Archaeology: 573/751-7862; Judith.deel@dnr.mo.gov

Amanda Burke, Architecture: 573/751-7958; Amanda.Burke@dnr.mo.gov

**COMMUNITY DEVELOPMENT BLOCK GRANT
DETERMINATION TO CONSULT WITH TRIBES UNDER SECTION 106**

RESPONSIBLE ENTITY (RE)	
PROJECT NAME	
CDBG PROJECT # (IF FUNDED)	PROJECT LOCATION/ADDRESS

Section 106 requires consultation with federally-recognized Indian tribes when a project may affect a historic property of religious and cultural significance to the tribe. Historic properties of religious and cultural significance include archeological sites, burial grounds, sacred landscapes or features, ceremonial areas, traditional cultural places, traditional cultural landscapes, plant and animal communities, and buildings and structures with significant tribal association. Following are the activities that may affect historic properties of religious and cultural significance.

If a project includes any of the types of activities below, invite tribes to consult:

Significant ground disturbance (digging)

Examples: new sewer lines, utility lines (above and below ground), foundations, footings, grading, access roads.

New construction in undeveloped natural areas

Examples: industrial-scale energy facilities, transmission lines, pipelines, or new recreational facilities, in undeveloped natural areas like mountaintops, canyons, islands, forests, native grasslands, etc., and housing, commercial, and industrial facilities in such areas.

Incongruent visual changes

Examples: construction of a focal point that is out of character with the surrounding natural area, impairment of the vista or view shed from an observation point in the natural landscape, or impairment of the recognized historic scenic qualities of an area.

Incongruent audible changes

Examples: increase in noise levels above an acceptable standard in areas known for their quiet, contemplative experience.

Incongruent atmospheric changes

Examples: introduction of lights that create skyglow in an area with a dark night sky.

Work on a building with significant tribal association

Examples: rehabilitation, demolition or removal of a surviving ancient tribal structure or village, or a building or structure that there is reason to believe was the location of a significant tribal event, home of an important person, or that served as a tribal school or community hall.

Transfer, lease or sale of a historic property of religious and cultural significance

Example: transfer, lease or sale of properties that contain archeological sites, burial grounds, sacred landscapes or features, ceremonial areas, plant and animal communities, or buildings and structures with significant tribal association.

None of the above apply.

Reviewed By

Date

ENVIRONMENTAL ASSESSMENT

FLOODPLAIN MANAGEMENT

(E.O. 11988, 24 CFR Part 55)

1. Floodplain Management applies to projects involving ANY of the following - check all that apply:

- Acquisition of land or buildings
- New Construction
- Substantial Rehabilitation (i.e., modifications and improvements to buildings where rehabilitation costs exceed 50% of pre-rehabilitation value of building or where residential density increases more than 20%)
- Expanding the footprint of buildings or structures
- Infrastructure Improvements – Water, Sewer, Drainage, Roads, Bridges, Ditches, Utilities
- Other activities affecting land use _____

2. Is the project located in a 100-year floodplain or designated floodway? YES NO

[FEMA Map Service Center](#)

Mark project boundary clearly on FEMA map if the area has been mapped by FEMA.

**Part 55 prohibits federal financial assistance for use in a floodway except functionally dependent uses such as port authorities, floodwalls, bridges, levees, dams, etc.*

UNMAPPED AREAS: Obtain the best information possible from one or more of the following qualified sources: *Check all sources used and attach all documentation.*

- [CARES Internet Mapper](#) – Click to access mapper
- Project Engineer – Written explanation
- Community Floodplain Administrator – Written statement
- US Army Corps of Engineers - Correspondence
- US Geological Survey Maps
- USDA Natural Resources Conservation Service – Soil Maps
- Regional Planning Commission/Regional Council of Governments Mapping – Maps/Written statement
- Local flood control or levee district – Maps/Written statement
- Other _____

3. Does the project involve a **Critical Action** (nursing home, hospital, data storage facility)? YES NO

If YES, is the project located in a 500-year floodplain? YES NO

If **YES** to # 2 and/or #3, skip to #5. If **NO** to #2 and #3, go on to #4.

4. The project is NOT located in a floodplain.

Attach FEMA Firmette Map or Flood Insurance Rate Map and mark the project boundary on the map.

Community Name/Number: _____

Map Panel and Date of Map Panel: _____

5. The project IS located in a floodplain. HUD's 8-Step Decision Making Process is required. See Page IV-112.

** Refer to the Preliminary Engineering/Architectural Report and/or consult with the engineer/architect for assistance. Consultation with environmental professionals may be appropriate.*

ENVIRONMENTAL ASSESSMENT

FLOOD INSURANCE

(The Flood Disaster Protection Act of 1973, 24 CFR 58.6)

The threshold for flood insurance requirements is included in *The Flood Disaster Protection Act of 1973*, as amended, requiring property owners purchase flood insurance for buildings located within *Special Flood Hazard Areas (SFHA)* when Federal financial assistance is used to acquire, repair, improve, or construct a building. Owners of HUD-assisted properties located within Special Flood Hazard Areas (SFHA) must purchase and maintain flood insurance protection as a condition of approval of any HUD financial assistance for proposed property acquisition, rehabilitation, conversion, repair or construction.

CDBG Grant - Owners of buildings located in a floodplain that are included in the project must maintain flood insurance for the life of the building, regardless of transfer of ownership.

CDBG Loan – Owners of buildings located in floodplain that are included in the project must maintain flood insurance for the term of the loan, in the amount of the loan.

(Compliance with mandatory flood insurance purchase does not constitute compliance with floodplain management requirements discussed under the Floodplain Management section of this document.)

1. Does the RE participate in the National Flood Insurance Program (NFIP)? YES NO
Access the following website and attach the appropriate page.
[MO communities participating in the NFIP](#)
 **If any portion of the project is located in a SFHA, attach a copy of the local jurisdiction's floodplain management ordinance and permitting information.*

2. Is any portion of the project located in a SFHA? YES NO
If YES, does the project involve existing buildings or proposed buildings in the SFHA? YES NO
If YES, flood insurance is required and proof of purchase of flood insurance must be attached or submitted during the project as it becomes available.
 If any portion of the project is located in a SFHA, HUD assistance is prohibited unless the community is participating in and in good standing with the NFIP.
***Sewer lift stations located in a SFHA that are at least one foot above base flood elevation, or as specified in the local floodplain management ordinance, are not subject to flood insurance requirements.*

MO State Emergency Management Agency (SEMA)

2302 Militia Drive, PO Box 116
Jefferson City, MO 65102

Dale Schmutzler, Floodplain Management Officer, NFIP
573/526-9135

Dale.schmutzler@sema.dps.mo.gov

[HUD Flood Insurance Q & A](#)

[FEMA NFIP](#)

[MO Local Floodplain Managers](#) - (Subject to change)

Additional Information/Explanations:

ENVIRONMENTAL ASSESSMENT

WETLANDS PROTECTION
(E.O. 11990, 24 CFR Part 55)

Executive Order 11990 requires all Federal agencies avoid impacts to wetlands, direct or indirect, by discouraging construction in wetlands whenever there is a practicable alternative.

1. Compliance with Wetlands Protection applies to Land Acquisition and/or Construction related to any of the following. Check all that apply to the project:

- Buildings and structures
- Roads
- Sewer and water systems
- Storm drains and ditches
- Flood control systems
- Dredging, filling, excavation (includes rehabilitation to existing buildings and structures)
- Expansion or altering the footprint of buildings or structures

2. Attach a **color wetlands map** with the project site clearly marked. Acceptable mapping sites are listed below. Ensure the map is zoomed in close enough to exhibit details of the surrounding project area. *Maps listed are for preliminary screening purposes only.*

[National Wetlands Inventory Mapper](#) – FWS Wetlands Mapper (National Wetlands Inventory)

[UMC CARES GIS & Internet Mapping](#) – UMC CARES GIS and Internet Mapping

3. Are there drainage ways, streams, creeks or rivers on or near the project site? YES NO

If yes, or the project is located in or near a wetlands, submit a cover letter with detailed project description, project location including township, range and section, clear and detailed map, and preferably color photographs of the area to:

U.S. Fish & Wildlife Service
Columbia Ecological Services Field
Amy L. Salveter, Field Supervisor
101 Park DeVille Drive, Suite A
Columbia, MO 65203-0057
Phone-573/234-2132

U.S. Army Corps of Engineers
Contact your regions District Office for potential Jurisdiction Determination at the following website:

[USACE Regulatory Officer Locator](#)

If a wetlands delineation is needed, contact NRCS:
[NRCS Wetlands Delineation Contacts](#)

4. **Is the project in a designated wetland, as indicated by qualified sources?** YES NO

5. **Is the project located in a 100-year floodplain or designated floodway?** YES NO

** If Yes, the [HUD 8-Step Decision Making Process](#) IS required

** If Yes to Question 4 and No to Question 5, please proceed to Question 6 to determine what level of HUD's 8-Step Decision Making Process is required.

6. **Permitting Requirements: Does the project involve new construction?** Yes No

6a. Does the project require a USACE Section 404 Individual Permit? YES NO

If yes, and project is **not new construction, attach permit and complete **only steps 6,7 and 8** of HUD's 8-Step Decision Making Process. New construction requires full 8-Step.

6b. Does the project require a USACE Section 404 General or Nationwide Permit? YES NO

If Yes, HUD's **entire 8-Step Decision Making process is required.

Check all source documentation applicable and attach: Maps must be in color.

- Color FWS Map(s)
- Color maps from other qualified agencies. Specify: _____
- Consultation correspondence (letters, e-mails, faxes, documented phone calls)
- US Fish & Wildlife Service Clearance
- US Army Corps of Engineers Clearance
- Other qualified agency clearance(s): _____
- Permitting Information
- Other sources of documentation: _____

Additional Information/Explanations:

ENVIRONMENTAL ASSESSMENT

N/A

HUD 8-STEP DECISION MAKING PROCESS

(Decision Making Process Under E.O. 11988 and 24 CFR 55.20)

(Attach additional pages as necessary.)

STEP 1 – Determine if the proposed action/project is located in a 100-year floodplain/wetland or in a 500-year floodplain/wetland if project is considered a critical action.

a. Based upon completion of the previous Floodplain Management and Wetlands Protection sections, is the HUD 8-Step Decision Making Process completed for:

Floodplains and Wetlands Floodplains Wetlands

b. Provide the dimensions of the project area(s) located in the floodplain and/or wetlands:

STEP 2 – Involve the public in the decision-making process.

Publish the Early Public Notice

The Early Public Notice is a notice of the proposal to consider an action in a floodplain/wetland. The notice must be published in a non-legal section of the newspaper of widest circulation. *A minimum 15-day comment period begins the day after publication.* Indicate if comments were received. If the RE receives written comments, the RE must consider the comments, respond in writing and provide copies to CDBG. The public notice must be submitted to environmental agencies and Tribes, as applicable.

Attach a copy of the notice, affidavit of publication or tear sheet, and proof of distribution to agencies and Tribes.

Name of Newspaper: _____

Date of publication: _____

Were comments received in writing? YES NO

If YES, explain and attach all correspondence.

ENVIRONMENTAL ASSESSMENT

STEP 3 – Evaluate alternatives to locating the proposed action in a floodplain.

Explain in detail each of the following to determine if the floodplain and/or wetland can be avoided:
(Attach additional pages as necessary)

a. Identify and explain if alternative sites suitable for the project exist outside the floodplain/wetland:
(Refer to the engineer/architect, or engineering/architectural report for alternatives. Other buildings and/or sites and No Action must be evaluated.)

b. Identify and explain if feasible alternative actions/methods may be used to fulfill the identical project objective: *(Can different or modified actions with less chance for impact be used to fulfill the same project?)*

c. Is there a storm/flood-related outdoor emergency warning system/siren serving the area in which the project is proposed? YES NO Not relevant to the project

If NO, explain how project beneficiaries are notified of an emergency situation:

d. Does an adequate evacuation plan exist, or will an evacuation plan be implemented by the facility and/or the community? YES NO Not relevant to the project

If NO, explain how the lack of an evacuation plain will impact project beneficiaries:

e. Are ingress and egress at the project site above or outside of the floodplain? YES NO

If NO, explain how beneficiaries will be evacuated and how emergency response vehicles will access the site during flooding events:

f. Is there at least one route/road to the project site above or outside the floodplain to allow access by emergency response vehicles? YES NO Not relevant to the project

If NO, explain how emergency response vehicles will access the site during flooding events:

g. Identify and explain if threats to lives and property and/or adverse impacts to the floodplain/wetland *outweigh* benefits of the proposed project: *(Explain if impacts are too severe to human and natural environments to complete the project.)*

ENVIRONMENTAL ASSESSMENT

STEP 4 – Identify indirect and direct impacts associated with occupying or modifying the floodplain/wetland.

If the RE determines the only practicable alternative for the project/action is occupying or modifying the floodplain/wetland, then impacts to lives and properties and impacts to floodplains and/or wetlands must be identified. If the RE determines an alternative site for the project exists out of the floodplain/wetland, project activities may still have an impact on the nearby floodplain/wetland and must also be identified to determine ways to minimize harm.

Explain in detail how the project/activity will affect the floodplain/wetland regarding the following types of impacts:

Positive or beneficial impacts to the floodplain/wetland, both direct and indirect:

Negative or harmful impacts to the floodplain/wetland, both direct and indirect:

Concentrated impacts – at or near the floodplain/wetland:

Dispersed or remote impacts occurring distant from the floodplain/wetland:

Short-term impacts to the floodplain/wetland (temporary impacts occurring immediately after an action lasting a short while):

Long-term impacts to floodplain/wetland (impacts occurring during or after an action that persist for considerable time or indefinitely):

Explain if the project encourages development in the floodplain/wetland:

ENVIRONMENTAL ASSESSMENT

STEP 5 - Identify mitigation measures to minimize impacts to and preserve benefits of the floodplain/wetland.
(Consult project engineer/architect and/or engineering/architectural report.)

a. Explain how actions will be designed and/or modified to minimize harm to, or within, the floodplain/wetland.

b. Explain how actions will be designed and/or modified to restore and/or preserve as much of the natural and beneficial floodplain/wetland values as possible.

a. Is there a local floodplain ordinance and floodplain development permitting process? YES NO
If Yes, attach a copy of the floodplain permit *application* submitted to the local authorizing jurisdiction, and a copy of the floodplain development *permit* issued by the local jurisdiction.

d. Is flood insurance required for the project? YES NO
If Yes, attach a copy of the flood insurance policy.

e. Is future development restricted on the project site(s)? YES NO
If Yes, attach a copy of the property deed restriction.

ENVIRONMENTAL ASSESSMENT

STEP 6 – Re-evaluate alternatives identified in Step 3. Take into account all identified impacts and mitigation measures.

a. Explain whether it is possible to modify or relocate the project/activity and why.

b. If there are no alternatives, explain why the project/activity should occur. Consider impacts determined in Step 4 and minimization efforts identified in Step 5.

ENVIRONMENTAL ASSESSMENT

STEP 7 – If re-evaluation results in no practicable alternative to relocate the project out of the floodplain/wetland, the decision must be made public.

Publish the Notice of Explanation

The Notice of Explanation must include reasons for locating the project/activity in the floodplain/wetland, all alternatives considered, and all mitigations measures planned. The notice must be published in a non-legal section of the newspaper of widest circulation. A 7-day comment period begins the day after publication. If the RE receives written comments, the RE must respond in writing, resolve issues and provide copies to CDBG.

Attach a copy of the notice, affidavit of publication and/ or tear sheet, and proof of distribution to environmental agencies and Tribes.

Name of Newspaper: _____

Date of Publication: _____

Were adverse comments in writing received: YES NO

If YES, explain and attach all correspondence.

STEP 8 – Implement the Project.

Project implementation can only proceed provided compliance has been demonstrated with respect to all of the prior steps and provided the project has been approved by the State in accordance with HUD regulation 24 CFR Part 58.

The Responsible Entity has a continuing responsibility to ensure that the mitigating measures identified in Step 7 are implemented. Mitigation measures must be incorporated, as appropriate, in project contracts and all related agreement documents.

Are there any Conditions for Approval specific to floodplains/wetlands? YES NO

If Yes, list all Conditions for Approval identified in the HUD 8 Step Process specific to floodplains and/or wetlands.

Additional Information/Explanations:

ENVIRONMENTAL ASSESSMENT

COASTAL ZONE MANAGEMENT

There are no Coastal Zones in Missouri.

Compliance Documentation:

[NOAA Coastal Zones](#)



States and Territories Working on Ocean and Coastal Management

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ENVIRONMENTAL ASSESSMENT

AIRPORT HAZARDS

(Clear Zones and Accident Potential Zones)

24 CFR Part 51 Subpart D

HUD funds may not be used for assistance, subsidy, or insurance for construction, land development, community development, or redevelopment designed to make land available for construction, or rehabilitation that significantly prolongs the life of existing facilities in designated Runway Protection Zones (RPZ) at civil airports or Protection Zones (PZ) at military airfields and Accident Potential Zone (APZ) at military airfields, except where written assurances are made that the project proposed for development will not be frequently used by people, and where written assurances are provided by the airport operator indicating no plans exist to purchase the property as part of a RPZ, PZ, or APZ acquisition program.

If CDBG funds are proposed for development in proximity to these areas, documentation must be provided that the program will comply with the requirements referenced above.

1. Do project activities, regardless of funding source, involve new construction, major rehabilitation, change of land use, increases in residential density, or acquisition of real property? YES NO
2. Is the project site located within 2,500 feet of the end of a civil airport runway or within 15,000 ft (2.8 miles) from the end of a military airfield? YES NO
3. If the answer to either question above is NO, provide support documentation as proof of compliance.
4. If the answer to both questions is YES, documentation must be attached indicating compliance with 24 CFR Part 51 Sub-part D. Contact the applicable airport operator for dimensions of the affected zones and provide documentation that the project is located outside the affected zones.

List attached compliance documentation:

Acceptable Compliance Documentation: *Clearly indicate the project area on maps. Maps must be in color.*

[AirNav Listing of Airports by State & Name, or City](#)

[CARES Interactive Maps](#) (Select 'Transportation' map layer)

[Civil & Military Airports by State](#)

[FAA List of National Plan of Integrated Airport Systems Airports \(NAIPS\)](#)

[FAA NAIPS State Maps](#)

Additional Information/Explanations:

ENVIRONMENTAL ASSESSMENT

ENDANGERED SPECIES

(Endangered Species Act (ESA), Section 7 - 50 CFR Part 402)

The ESA mandates that Federally-assisted activities not jeopardize the existence of plants and animals listed or proposed for listing on the endangered species list. Activities proposed for areas harboring such species must avoid adversely modifying or destroying their habitat.

[Endangered Species Act of 1973](#)

If the project involves acquisition, new construction, site clearance, or public infrastructure improvements contact the following agencies. *Attach all related documentation.

U.S. Fish & Wildlife Service

Columbia Ecological Services Field
Amy L. Salveter, Field Supervisor
101 Park DeVille Drive, Suite A
Columbia, MO 65203-0057
Phone: 573/234-2132

[US Fish & Wildlife Services Columbia, MO Field Office](#)
[iPac Information Planning and Conservation System Tool](#)

MO Department of Conservation (MODOC)

Attention Policy Coordination
PO Box 180
Jefferson City, MO 65102
573/522-4115

[MDC Website](#)

Compliance:

Agency Requirements: Are conditions/mitigation measures required by any agency? YES NO

If Yes, 1) Explain agency requirements 2) Explain if they are feasible in relation to project goals 3) Describe the mitigation plan to address requirements and if mitigation measures are required for completion *prior* to beginning any physical activity, etc. (*Attach additional pages as needed.*)

Agency Recommendations Related to Site: No recommendations provided by agencies

Check all source documentation applicable and attach:

- US Fish and Wildlife clearance
- MO Department of Conservation clearance
- Consultation correspondence (letters, e-mails, faxes, documented phone calls)
- Permitting Information
- Other sources of documentation: _____

Compliance has been met.

ENVIRONMENTAL ASSESSMENT

FARMLAND PROTECTION

(Farmland Protection Policy Act, 7 CFR 658)

The purpose of the Farmland Protection Policy Act (FPPA) is to minimize unnecessary and irreversible conversion of farmland to non-agricultural uses.

- FPPA is NOT applicable to (1) land with a density of 30 structures per 40-acre area, (2) lands identified as “urbanized area” (UA) on the Census Bureau Map, (3) as urban area mapped with a “tint overprint” on the USGS topographical maps, or (4) as “urban-built-up” on the USDA Important Farmland Maps.
- FPPA IS applicable to land designated as *Prime* or *Unique* agricultural lands by USDA Natural Resources Conservation Services, including forestland, pastureland and cropland, and farmland of statewide or local importance.

Compliance:

Does the project involve new construction, acquisition or disposition of agricultural land, pasture or forested land that would result in development or conversion for non-agricultural use?

NO **Indicate current land use and/or zoning classification of proposed project site:**

Describe current land use of the project site and surrounding/adjacent parcels of the project site. Explain compatibility of proposed project activities with current land use. Attach support documentation for current zoning classification and/or land use such as ordinances, and color photos and maps. Attach additional pages as necessary:

YES **Complete the [USDA Farmland Conversion Impact Rating Form](#).** Submit the form to the USDA NRCS office *in your region*.

Contact information for NRCS offices: [NRCS Service Center Locator for MO](#)

Describe the outcome of the NRCS rating, any conditions or mitigation measures required, and the feasibility of these requirements in relation to project goals. Attach all related documentation:

Related Website: [CARES Internet Mapping](#) - UMC Cares Map Room.

If using a map for support documentation, print in color.

The map site listed above is for *preliminary screening purposes only*.

ENVIRONMENTAL ASSESSMENT

NOISE CONTROL

(24 CFR Part 51, Sub-part B)

The purpose of the HUD Noise Regulation is to encourage suitable separation between noise sensitive land uses and major noise sources and establishes standards, requirements, and guidelines for noise control and abatement for HUD-assisted projects. If other funding sources are assisting the project also requiring noise control, comply with the strictest noise standards.

1. Explain potential noise associated with:

(a) Construction:

(b) Completed project:

2. Is the proposed project a noise sensitive land use (residential, school, day care center, community center, library, hospital, nursing home, auditorium, health clinic, shelter, etc)? YES NO

3. Is the proposed project located within proximity of the following major noise sources? YES NO

Check all that apply and map locations in relation to the project area(s). Acceptable documentation includes on site measurements (preferred) or mapping sites allowing distance measurements.

Within 1,000 feet of a major roadway (high volume traffic, heavy truck traffic, etc.)

Within 3,000 feet of a railroad

Identify crossing locations - [FAA Railroad Crossing Inventory Query](#)

Refer to FAA's crossing inventory above and local government officials

There is a designated quiet zone in the area of the project.

If a quiet zone exists in the area of the project, explain and attach related documentation.

Within 15 miles of an airport (*See Airport Hazards section for mapping airports*)

Other significant noise sources (industrial/manufacturing facilities, power generating stations, etc.)

(Industrial/manufacturing facilities; power generating stations; recreational facilities such as racing speedways/tracks, and motorcycle trails, etc.)

4. Is the project a major noise source within proximity of a noise sensitive use? YES NO

If Yes to both #2 and #3, or Yes to #4, a Noise Assessment is ***required***. Refer to HUD's noise website, the 'HUD Noise Guidebook', and DNL Calculator at the websites below. *Attach all related documentation.*

[HUD Noise Abatement & Control](#)

[HUD Noise Guidebook](#)

[HUD Day/Night Noise Level Electronic Assessment Tool](#)

**The use of a noise meter may only be used when there is insufficient or inadequate data. See pages 101 -102 of 'HUD Noise Guidebook' as to when it is appropriate to use measurements from a noise meter.*

5. If a noise assessment was required, attach the assessment and explain the outcome below: N/A

ENVIRONMENTAL ASSESSMENT	
<u>EXPLOSIVE AND FLAMMABLE OPERATIONS</u>	
(24 CFR Part 51 Sub-part C)	
<p>HUD-assisted projects must be assessed for the presence of facilities presenting an explosive or flammable hazard to project sites in an effort to prevent injury to occupants and damage to buildings from industrial accidents.</p>	
<p>1. Does the proposed project involve any of the following <i>residential</i> activities: conversion of non-residential land to residential land use, rehabilitation where unit density is increased, new housing construction, or vacant buildings made habitable?</p>	<input type="checkbox"/> YES <input type="checkbox"/> NO
<p>2. Does the proposed project entail institutional, recreational, commercial, or industrial use, including open spaces, where people may congregate?</p>	<input type="checkbox"/> YES <input type="checkbox"/> NO
<p>3. If YES to #1 or #2, is the project within sight of or within one (1) mile of stationary hazardous facilities that store, handle, or process chemicals or petrochemicals of an explosive or flammable nature, such as liquid propane, gasoline or other above-ground storage tanks, particularly when there are no intervening topography, existing structures or barriers, are unsuitable for new development or substantial rehab projects?</p> <p><i>*Mobile tanks (including railroad cars), buried tanks, and tanks with less than 100-gallon capacity and having common fuels are <u>excluded</u>.</i></p>	<input type="checkbox"/> YES <input type="checkbox"/> NO
<p>If NO to #1 and #2, document that no Explosive or Hazardous Operations are relevant to the project by attaching the site visit and other related documentation as indicated below.</p>	
<p>4. Does the proposed project involve the installation of hazardous facilities?</p>	<input type="checkbox"/> YES <input type="checkbox"/> NO
<p>If YES to #3 or #4, the RE shall ensure that such hazardous facilities are located at an acceptable separation distance from residences and from any other facility or area where people may congregate or be present. Acceptable Separation Distance (ASD) must be determined by referring to the following: <u>‘Siting of HUD-Assisted Projects Near Hazardous Facilities Guidebook’</u> <u>Acceptable Separation Distance Calculator</u> <i>Attach all related documentation.</i></p>	
<p>Acceptable Sources of Information:</p> <ul style="list-style-type: none"> • Field Visit Checklist & Site Evaluation Form (<i>Refer to pages IV-105</i>) • Maps with distances of the project site(s) to any explosive and hazardous operations • Fire marshal, fire department, fire prevention agencies • City, county, or project engineer • Documented interviews with owners of aboveground fuel storage tanks/explosive and hazardous operations • Current aboveground tank inspection reports • Current color U.S.G.S topographic map • Color survey land use maps 	
<p><u>Additional Information/Explanations</u></p>	

ENVIRONMENTAL ASSESSMENT

WATER QUALITY

**Water Supply and Ground Water
(Safe Drinking Water Act of 1974, Clean Water Act)**

The Safe Drinking Water Act (SDWA) protects public health by regulating the nation's public drinking water supply. The law requires many actions to protect drinking water and its sources: rivers, lakes, reservoirs, springs, and ground water wells. SDWA applies to every public water system in the U.S, but does not regulate private wells serving fewer than 25 people.

[Safe Drinking Water Act of 1974](#)

[Clean Water Act \(EPA\)](#)

1. a. Is there an existing municipal or public water supply adequate to serve the project? YES NO
b. Is the water supply safe and free of contamination? YES NO

Refer to the following and/or to local inspection reports, and correspondence and/or documented telephone calls from Public Water Supply District or comparable source.

[EPA Safe Drinking Water Act Search Page](#)

[CARES Public Drinking Water System Reports](#)

[DNR Water Systems Search](#)

Attach all related documentation.

2. Will any waterways be affected by the project? YES NO
- a. Map the project site in relation to any nearby rivers, lakes, streams, or other water bodies that may receive effluent discharges from the project site that could impact potable water. *Attach the map and documentation from other qualified sources.*
- b. If the project could adversely impact water quality, explain how this will be addressed to the satisfaction of applicable environmental agencies and requirements. N/A *Attach related documentation.*

3. Explain construction best management practices, construction staging controls, permitting, and/or local requirements for protecting groundwater during construction activities.

4. Will the project draw water from a Sole Source Aquifer? YES NO
- Print and attach the following webpage: [EPA-designated Sole Source Aquifers](#)

<p>5. WELLS:</p>	
<p>a. Will the project involve drilling a well? <input type="checkbox"/> YES <input type="checkbox"/> NO</p> <p>If YES, is the location subject to rapid water withdrawal problems that will change depth of the water table? <i>Attach county health department inspection reports, letters and/or documented telephone calls.</i> <input type="checkbox"/> YES <input type="checkbox"/> NO</p>	
<p>b. Will the project use a private well for its water supply? <input type="checkbox"/> YES <input type="checkbox"/> NO</p> <p>If YES:</p> <p>Has the source been tested and free of contamination? <i>Submit most current inspections/reports.</i> <input type="checkbox"/> YES <input type="checkbox"/> NO</p> <p>Are septic systems present on or around the project site and have they been properly installed and maintained? <i>If YES, submit documentation.</i> <input type="checkbox"/> YES <input type="checkbox"/> NO</p>	
<p>c. Do one or more wells exist on the project site? <input type="checkbox"/> YES <input type="checkbox"/> NO</p> <p>If YES, will wells remain in use for the project? <input type="checkbox"/> YES <input type="checkbox"/> NO</p>	
<p>d. Does the project require abandoning/decommissioning one or more wells? <input type="checkbox"/> YES <input type="checkbox"/> NO</p> <p>If YES, contact:</p> <p>MO DNR Wellhead Protection Section PO Box 25 Rolla, MO 65402 573/368-2165</p>	
<p>e. Public Water Supply Notification: If any household will disconnect from a private well to connect to a municipal water system or Public Water Supply District as part of the CDBG-assisted project, wells must be plugged in accordance with 10 CSR23-3.110 – Plugging Wells. <input type="checkbox"/> N/A</p> <p>Contact the DNR Public Drinking Water Program, Wellhead Protection Section before construction begins on any public water supply well to determine if it is a non-community or community supply and if an engineer is required to evaluate the supply.</p> <p><i>Attach documented site visits and/or interviews with DNR, property owners, county health department, etc.</i></p>	
<p>For Further Information:</p> <p>DNR Water Permit</p> <p>DNR County Interactive Water Systems Data</p> <p>DNR Surface Water DNR Groundwater</p> <p>DNR Wellhead Protection Section</p> <p>EPA - Locate Your Watershed</p>	
<p><u>Additional Information/Explanations:</u></p>	

ENVIRONMENTAL ASSESSMENT

AIR QUALITY

(Clean Air Act 42 U.S.C. 7400 Section 176 & 171, 40 CFR Parts 6, 51, 93)

Federal, State and Local Compliance (Attach additional pages as necessary)

1. Is the project in an EPA-designated non-attainment or maintenance area for one or more of the six criteria pollutants regulated under the Clean Air Act? Attach documentation from EPA: [EPA Currently Designated Nonattainment Areas](#) YES NO

If YES, a determination of conformity with the State Implementation Plan (SIP) is required for the project and specific pollutant for which the area was designated a non-attainment or maintenance area. Contact EPA Region VII to determine if the project requires a permit under the SIP.

EPA – State SIPs: US EPA Region 7
Air and Waste Management Divisions
11201 Renner Boulevard
Lenexa, KS 66219
913/551-7089

If applicable, obtain a letter of consistency from EPA proving the project is consistent with the SIP.
Provide explanations and attach all correspondence.

2. Does the project require installation and/or operating permits, or indirect sources permit, in accordance with the Clean Air Act? YES NO

<http://www.dnr.mo.gov/env/apcp/permits.htm> – DNR Air Permitting

If YES, explain and attach all permitting documentation:

3. Are there local air pollution rules or policies for controlling fugitive dust, and vehicle and equipment emissions during construction activities? YES NO

Attach any County or City ordinances or codes.

If NO, explain how fugitive dust from equipment and vehicles will be controlled during construction activities?

4. a. Explain if the completed project could encourage similar developments in the area that could contribute or lead to future violations of air quality standards.
b. Explain the sources, types, and amounts of air emissions produced by the finished project and the mitigation needed to control or alleviate air emissions.

5. Noxious Odors or Fumes: Explain potential for odors and emissions from surrounding area sources and completed project, and mitigation measures required to minimize migration of noxious odors or fumes.

INDOOR AIR QUALITY

Provide information on sources and types of air emissions that could affect indoor air quality after construction. Attach additional pages as needed to adequately explain each.

Radon: [A picocurie = unit of measure for levels of radon gas (pCi)]

1. Does the project entail new construction or major rehabilitation to any type of building to be used for residential purposes or long term occupancy of people? YES NO

If YES, follow the directions below that are applicable to your project:

- a. **Existing Buildings:** N/A YES NO

A radon test must be conducted prior to construction improvements.
Attach test results.

- Do test results reveal radon levels in excess of 4 picocuries? N/A YES NO

If YES, mitigation is required and further testing at project completion.

- Retesting:** If re-testing was necessary, are radon levels in excess of 4 picocuries? YES NO

Attach test results and explanations.

- b. **New Construction:** New construction requires implementation of a radon mitigation system. Radon testing is required after construction is complete. N/A YES NO

If Radon Testing was required: Do test results reveal radon levels in excess of 4 picocuries? N/A YES NO
Attach test results and any explanations.

Radon Resources:

[HUD Radon Main Page](#)

[EPA Radon Information](#)

[EPA Radon in Missouri](#)

- Mold:** YES NO

Does the project entail rehabilitation of any building with evidence of mold on any building component, or an interior moisture-related problem, including roof leaks or moisture in and around the interior foundation or crawl space? *Document a site visit and attach color photos.*

If YES, describe how mold will be eliminated and the construction measures required to eliminate source(s) of mold-inducing moisture inside the structure. Attach documentation to support implementation of mold remediation.

Mold Resources: [HUD Mold Main Page](#) [EPA Mold Main Page](#)

Additional Information/Explanations:

ENVIRONMENTAL ASSESSMENT

CONTAMINATION AND TOXIC MATERIALS

(HUD Policy on Site Contamination [Sec. 58.5(i)(2)])

HUD-assisted project sites *must* be free of contamination and chemicals where a hazard could affect health and safety of occupants or conflict with intended use of properties. Particular attention should be paid to sites located on or near landfills, industrial sites, gas stations, or other locations with potential for contaminants. If the project involves property acquisition, investigations must be complete and resolved *prior* to the transfer of property.

Identify Site Contamination: *Acceptable documentation: documented site visit, current historical property data, site inspections, ASTM E1527-05 Standard Phase I Environmental Site Assessment and, if applicable, Phase II and Phase III Assessments, other recent environmental studies, documentation from DNR and EPA staff*

1. Explain previous uses of the site and attach acceptable documentation: historical research of property, information from prior land owners, deed, title, easements, liens, aerial photographs, etc.

2. Is fill/borrow material required for the project? YES NO

If YES, identify the origin of the fill on a map, and complete and document a site visit
Attach documentation.

Based on the site visit, is there evidence of contamination at the fill/borrow site? YES NO

If YES, Borrow site is rejected. Evaluate the potential for contamination of new borrow sites.

A current ASTM Phase I Environmental Site Assessment is attached.

An ASTM Phase I Environmental Site Assessment will be prepared.

3. Does the project anticipate removal of florescent light fixtures? YES NO

If YES:

Are any ballasts in fixtures identified as PCB-containing ballasts? YES NO

If YES, are there signs of leaking? YES NO

If YES, the project must comply with: [DNR Universal Waste Rule](#)

[DNR Fluorescent Lamp Ballasts](#)

**If a ballast is not labeled "No PCBs" assume it contains PCBs.*

4. Does the project anticipate removal of a HVAC unit? YES NO

If YES:

a. Will mercury-filled tipping mechanisms (thermostats) be removed? YES NO

b. Will a Freon-based AC unit be replaced? YES NO

If YES, the project must comply with: [DNR Universal Waste Rule](#)

PROFESSIONAL ASTM ENVIRONMENTAL SITE ASSESSMENTS (ESA)

1. Has a current ASTM 1527-05 Phase I ESA been completed? YES NO
(Generally, a Phase I ESA is considered current for 180 days)
- If NO, move on to question #3 below.
 - If YES, date of Phase I ESA Reconnaissance Visit: _____
(Attach the Phase I ESA)
 - Based on the Phase I, does contamination exist or is suspected to exist at the site? YES NO
 - If NO, nothing further is required.
 - If YES, will contaminants affect health and safety of occupants or conflict with the intended use of the site? YES NO
 - If YES, is a Phase II Assessment recommended? YES NO
If YES, submit the Phase II Assessment once complete.
 - If NO - a Phase II Assessment is not recommended, explain how contamination identified in the Phase I ESA will be addressed in the project. Explain any cleanup procedures/mitigation and whether the cost and timeline for cleanup are feasible for the project:
-
2. Has a Phase II Assessment been completed? N/A YES NO
- If YES, date of Phase II Assessment: _____
(Attach the Phase II Assessment)
 - Based on the Phase II Assessment, does contamination exist at the site? YES NO
 - If NO, nothing further is required.
 - If YES, explain how contamination will be addressed in the project. Explain any cleanup procedures/mitigation and whether the cost and timeline for cleanup are feasible for the project:
-
3. If a current Phase I ESA **has NOT been completed**, determine if it is appropriate. N/A
 Depending on the nature of the project, a Phase I ESA could be required if the potential for contamination exists. Following are questions to determine if a Phase I ESA is needed:
- a. Based on the current site visit conducted, is there evidence of stained soil or pavement on or around the project site, other than water stains? YES NO
 - b. Is the project site an EPA Superfund (CERCLA) site or within 1 mile of a Superfund Site? YES NO
 Print and attach documentation from [EPA NPL/Superfund Sites](#)
 - c. Have hazardous substances, pollutants, or contaminants been stored or dumped on the project site? YES NO

- c. Is the project site near an industry or in an industrial area disposing of chemicals and/or hazardous waste? YES NO

Obtain documentation from one or more of the following websites and attach.

[EPA NEPAssist](#)

[EPA EJView](#)

[EPA EnviroMapper](#)

[DNR Hazardous Substance Site Locator](#)

- d. Is the project site located within 3,000 feet of a toxic or solid waste landfill site? YES NO

[DNR Landfill & Transfer Station Map](#)

- e. Do aboveground or underground storage tanks exist on or adjacent to the project site? YES NO

Print database information: [DNR Petroleum Storage Tank Database](#)

If tanks are present, have tanks been identified by DNR as leaking?

Contact the DNR Tanks Section for more information: 573/751-6822

YES NO

- g. Based on results of the above, is a Phase I ESA needed? YES NO

▪ If NO, nothing further is required.

▪ If YES, choose one of the following:

A Phase I ESA will be conducted and submitted to DED.

The site is rejected. Based on rejection of the site, explain how the project will proceed:

More information is found at the following:

[DNR Hazardous Waste Program](#)

[DNR Brownfields/Voluntary Cleanup Program](#)

[Association for Standards & Testing Methods \(ASTM\)](#)

Additional Information/Explanations:

ENVIRONMENTAL ASSESSMENT

ENVIRONMENTAL JUSTICE

(E.O. 12898)

The purpose of Executive Order 12898 is to direct Federal agencies to identify and address as appropriate “disproportionately high and adverse human health or environmental effects of its programs, policies, and activities on minority populations and low-income populations”. Generally, this applies to low-income and minority neighborhoods where HUD-assisted projects are proposed for acquisition of existing housing, acquisition of land for development, change in land use, demolition, major rehabilitation, and new construction. At a minimum, Environmental Justice should address the consideration of actual and potential environmental impacts to people of low-income and minority status resulting from the proposed project, and mitigation measures to minimize adverse impacts as much as practicable within the principles of the Executive Order. It is imperative that consistency is maintained throughout the project. Attach additional pages as needed.

1. Explain the planning/ zoning classification and/or land use designation of the project site and immediate area. If zoning does not exist, explain the land use on and around the project area. (Acceptable documentation includes official planning & zoning information, color maps, color photographs, description of project and surrounding areas).

2. Is the proposed project located in or around a low-income or minority neighborhood? Yes NO
If Yes, explain how individuals have been made aware of the project and the opportunity for public comment and involvement. Attach all related documentation.

[EPA EJView Map](#) and/or [EPA NEPAssist](#)

On the menu to the right:

(a) Click “Demographics (ACS) 2010”; click “Below Poverty”; choose Block Group, Tract, or County. Print & attach color map.

(b) Click “Demographics (SF1) 2010”; click “Minority”; choose Block Group, Tract, or County. Print & attach color map.

3. Explain all environmental impacts of the proposed project to low-income and minority persons.

Positive Impacts:

Negative Impacts:

4. Explain if project activities could contribute to already adverse conditions to minority and/or low income persons.

More information is found at the following website:

[EPA - Environmental Justice](#)

[EJScreen](#) – demonstration at [EJ Screen Tutorial](#)

[HUD Environmental Justice](#)

[Executive Order 12898](#)

Additional Information/Explanations:

ENVIRONMENTAL ASSESSMENT

LAND DEVELOPMENT

1. Land Use Compatibility

Explain if the proposed project will conflict with existing uses or future plans for residential, commercial, or industrial uses in the vicinity of the surrounding area of the project.

2. Compatibility and Urban Impacts

a. Explain if the project will contribute to urban sprawl. (*Sprawl is randomly dispersed, auto-dependent development in rural countryside, outside of compact urban, village centers, along highways.*)

b. Explain if the proposed project will increase or decrease employment opportunities.

c. Explain if the proposed project will displace economic activity from a central business district.

3. Demographic Character Changes

Explain if the proposed project will significantly alter income, racial or age distribution of the community or neighborhood.

[American Fact Finder](#) - For specific census/demographic information enter city, county, zip, or choose state

6. Seismic Hazards

[Modified Mercalli Intensity Scale](#) – print and attach

Are there local seismic building codes or requirements necessary for the project? YES NO

If YES, explain:

7. Is the proposed construction subject to any federal, state or local building codes and regulations? YES NO

If Yes, all building codes and requirements must be attached, and included in construction contract documents.

8. Displacement

Explain if the proposed project will displace individuals, families, or businesses. (*If so, implement the Uniform Relocation Assistance and Real Property Acquisition Act (URA. Attach related documentation.)*)

[URA Regulation for HUD-Assisted Projects](#)

[HUD Acquisition and Relocation Webpage](#)

Additional Information/Explanations:

3) Commercial/Retail and Transportation

- a. Are commercial/retail services nearby? YES NO
- b. Is the project accessible to employment, shopping and services by public transportation private vehicle?
- c. Is adequate public transportation available from the project to these facilities? YES NO
- d. Are the approaches to the project convenient, safe and attractive? YES NO
- e. Explain if the completed project is compatible with nearby services, etc.
- f. Explain if it is necessary to expand services to meet needs of the area as a result of the project.
- g. Explain if there will be increased traffic as a result of the completed project and if there is adequate infrastructure and traffic control measures to service the area.
- h. Explain if detours, delays, or road closings are planned and the plans proposed to minimize impacts on traffic.

Contact the city/county or local RPC, or access the following for assistance in determining what may be needed for the project:

[Smart Growth](#)

[MODOT Bicycle & Pedestrian Program](#)

[MO Statutes on Traffic Regulations](#)

[MODOT Rural Public Transportation Program](#)

[Nat'l Highway Traffic Safety Administration - Safe Communities](#)

[OSHA Temporary Traffic Control Measures](#)

ENVIRONMENTAL ASSESSMENT

WASTEWATER

1. Is there an existing or planned wastewater collection and treatment system adequate to serve the project? Attach the current wastewater permit and whether there are system violations. N/A YES NO

If system violations exist, explain how they are being addressed. (Information should come from the wastewater superintendent, project engineer, and/or DNR.)

2. If on-site sewage systems are planned, are lot sizes and soils suitable for this use? N/A YES NO
*If soil conditions are not addressed in the PER, a written statement by the engineer must be obtained. (Refer to engineering report and/or project engineer for assistance.)

Explain:

More information is contained at the following websites:

[MO DNR Permitting](#) [Dept. of Health & Human Services Onsite Sewage Small Communities, EPA Office of Wastewater Management](#)

Additional Information/Explanations:

ENVIRONMENTAL ASSESSMENT

SOLID WASTE

1. Indicate the regional DNR solid waste district for the project: _____

[DNR Solid Waste Districts](#)

2. Describe the types of waste expected as part of construction debris.

3. Is there an existing solid waste disposal system adequate to handle the construction debris? YES NO

If NO, explain:

4. Describe the types of solid waste generated by the completed project.

5. Provide the name of the servicing landfill and map the distance from the proposed project site.

6. Is hazardous waste anticipated as part of the project? YES NO

If Yes, does the servicing landfill accept hazardous waste? If Yes, attach documentation. YES NO

7. Is solid waste permitting currently required, and/or will the completed project require solid waste permitting? YES NO

If YES, explain and attach all permitting documentation.

8. If owners or renters are required to pay costs for disposal services, will it create a financial hardship? YES NO

9. Indicate if any other landfills exist in proximity to the project area that could adversely affect the environment in or around the project site. List names of landfills and types and map in relation to project site.

Additional source documentation found at the following:

[DNR Permitted Solid Waste Facilities](#)

[DNR Solid Waste forms & permitting](#)

[DNR Hazardous Waste Map Gallery](#)

ENVIRONMENTAL ASSESSMENT

STORM WATER DRAINAGE

1. Is there an existing storm water drainage system adequate to serve the project? YES NO
Explain the type of drainage system: (Information should come from the public works superintendent, project engineer, DNR, or other knowledgeable source)

2. If no storm water drainage system exists, describe how storm water run-off will be impacted by the project. N/A

3. National Pollutant Discharge Elimination System Permit: Is the community listed? YES NO
MO Regulated Municipal Separate Storm Sewer Systems – As of January 8, 2013

If your community is listed as affected by Phase II storm water regulations, attach evidence that your community is in receipt of the NPDES Permit. Attach the community's plan for a storm water drainage program and explain progress toward implementation of the required program. Attach additional pages as necessary.

Background Information:

The national and state stormwater regulations now require certain small communities to obtain a National Pollutant Discharge Elimination System, also known as NPDES, permit. Missouri has three Phase I communities: – Kansas City, Independence and Springfield. In addition, there are approximately 164 Missouri communities affected by these Phase II Stormwater regulations. These small communities with Municipal Separate Storm Sewer Systems, also known as MS4s, were required to obtain a NPDES permit by March 10, 2003. The permit requires these regulated MS4s to have their Stormwater management program in place within five years from the date of initial permit issuance. The program must address six minimum control measures.

4. Does the project require a storm water (NPDES) permit? YES NO
If YES, attach the permit and any other relevant documentation.

For more information, access the following websites:

- [DNR Local Government MS4 Program](#)
- [DNR Storm Water Information Clearinghouse](#)
- [EPA Storm Water Best management Practices](#)

Additional Information/Explanations:

ENVIRONMENTAL ASSESSMENT

LEAD BASED PAINT

(24 CFR Part 35)

Lead based paint requirements apply to all HUD-assisted rehabilitation, residential, commercial, and public facility projects where young children will reside over 100 days, or spend more than 10 hours per week. Lead-based paint is defined by statute as paint with a lead concentration of 1 milligram per square centimeter, or 0.5 percent by weight. Hazards can be in the form of paint chips, child-accessible (therefore chewable) painted surfaces, friction surfaces of windows and doors, lead contaminated dust, and lead contaminated soil. If lead based paint hazards are identified, lead based paint treatments and lead safe work practices must be implemented. The Missouri Department of Health and Senior Services (DHSS), Section for Environmental Public Health (SEPH), Lead Licensing Program under authority of RSMO 701.300-701.338, governs the licensure of lead abatement personnel, enforces work practice standards for lead inspections, risk assessments, and lead abatement projects, and accredits lead training courses in Missouri.

1. Does the project involve **rehabilitation** to structures built prior to January 1, 1978? YES NO
 If YES, is there potential for children under 6 years old to reside over 100 days or spend over 10 hours a week in the project structure? N/A YES NO
 If YES lead paint testing is required for deteriorated paint surfaces and paint surfaces that will be disturbed. A *Missouri Licensed Lead Professional* licensed through the Missouri Department of Health and Senior Services (DHSS) must be hired. Comply with all DHSS requirements.
Pay particular attention to friction areas such as doors and windows, and assess if paint has made contact with soil. Consult with a lead risk assessor to determine whether soil testing is needed.

2. Does the project involve **demolition** of structures built prior to January 1, 1978? YES NO
 If YES, will property re-use involve residential, child-occupied facilities such as a day care center or pre-school, playgrounds, and/or common or open spaces that may be used by children?
 If YES, soil testing is required by an EPA-certified lead risk assessor listed on the DHSS website. Attach all related documentation.

3. a. Does the project involve demolition or rehabilitation of an **elevated water tower/tank**? YES NO
 If YES, is lead based paint located on the interior and/or exterior of the tower/tank? YES NO
 b. Does the project involve demolition or rehabilitation of a **bridge**? YES NO
 If YES, does the bridge contain lead based paint? YES NO
 If YES to 3a or 3b, does the site visit reveal any deteriorated paint such as cracking, peeling and chipping? YES NO
 c. Explain any mitigation measures that will be implemented during the project including soil testing, remediation of existing lead in soils, and how soils will be protected from lead based paint during demolition and/or construction activities. Attach all related documentation.

If CDBG funds are proposed for lead testing, treatment, and/or abatement, CDBG procurement methods apply.

For more information:

[EPA Lead Main Page](#)

[EPA Renovation, Repair, and Painting Program](#)

[MO Dept. of Health & Senior Services Lead Licensing Main Page](#)

[MO Licensed Lead Professionals](#)

[RSMO 701.300-701.338](#)

Additional Information/Explanations:

ENVIRONMENTAL ASSESSMENT

ASBESTOS

(40 CFR 61.141 Sub-part M)

Asbestos requirements apply to all HUD-assisted projects involving demolition and rehabilitation of regulated structures. Missouri Department of Natural Resources (DNR) is a delegated agency of the EPA for the purposes of administering 40 CFR Part 61, Subpart M, *The National Emission Standard for Asbestos* (NESHAP). This regulation contains requirements for asbestos inspection, project notification, emission control procedures for asbestos removal, and waste disposal. DNR regulates demolition and renovation projects involving institutional, commercial, public, industrial, or residential structures, installations or buildings.

DNR enforce additional State regulations that govern asbestos activities. These regulations include requirements for trained and registered contractors to perform asbestos abatement work and to ensure that individuals that perform asbestos inspections and who design and work on asbestos abatement projects, are properly trained and certified through accredited training providers.

United States Occupational Safety and Health Administration (OSHA) requirements are in place to ensure the protection of workers who must work with and around asbestos containing materials. Projects involving structures with asbestos containing materials, whether or not regulated by DNR, are subject to all applicable OSHA requirements.

1. Does the project involve demolition or rehabilitation of residential, commercial, or bridge structures? YES NO

If YES, a *Missouri Certified Asbestos Inspector, certified by DNR*, must be hired to perform a thorough asbestos inspection identifying the quantity, type, condition, and location of asbestos containing materials. Comply with DNR reporting requirements. If friable asbestos containing materials are present requiring abatement, a Missouri registered asbestos abatement contractor must be hired.

DNR Asbestos Unit - (573) 751-4817

2. Does the project include removal of asbestos water or sewer pipes? YES NO

If asbestos piping will be removed, wet methods must be used and debris material properly disposed in a sanitary landfill that accepts asbestos containing material. If the amount of asbestos containing material is over 260 linear feet, a DNR-certified abatement contractor must be used. Nothing further is required if pipe is to be left in place.

[EPA Asbestos in Drinking Water](#)

If CDBG funds are proposed for asbestos inspection and/or abatement, CDBG procurement methods will apply.

For more information:

[EPA Asbestos in Drinking Water](#)

[State Asbestos Rules 10 CSR 10-6.240, 6.241, 6.250](#)

[DNR Asbestos Information & Forms](#)

[Environmental Regulations for Demolition Project Checklist](#)

[Asbestos Requirements for Demolition & Renovation](#)

[Management of Non-Friable ACMs](#)

[EPA Asbestos Information](#)

[OSHA Asbestos Standards](#)

Additional Information/Explanations:

ENVIRONMENTAL ASSESSMENT

ENERGY CONSUMPTION

Section 101 of the Housing and Community Development Act of 1974, as amended, states: “Federal assistance provided in this chapter is for the support of community development activities which are directed toward the following specific objectives: the conservation of the Nation’s scarce energy resources, *improvement of energy efficiency*, and the provision of alternative and renewable energy sources of supply”. HUD encourages incorporation of ENERGY STAR qualified products and practices for rehabilitation and new construction.

1. Explain if the project will use as its energy source any “alternative” or renewable fuel or energy source(s) such as wind generation, solar power, geothermal energy, or bio-fuels. [DNR Renewable Energy](#)

2. For new building construction or rehab, will it be Energy Star qualified. N/A YES NO
See Energy Star websites below.

3. For new building construction or rehab, identify if energy-efficient materials and construction methods are proposed – consult with the project architect or engineer. Check all that apply: N/A

- Programmable thermostat
- Installation of new HVAC system with improved controls
- Use of reflective, light colored roofing shingles
- Professionally sealed ducts to the ENERGY STAR specification of 10% maximum
- Joints and penetrations through drywall must be well sealed to keep moist air out of insulation.
- Sealing leaks around windows, doors, floor, ceiling, plumbing and electrical features
- Insulating all exterior walls to at least R-19
- Window replacement/addition with U-factor of 0.40 or less & solar heat gain coefficient 0.55 or less
- Insulation of ceilings of top floor to at least R-49.
- Insulation of floors above unconditioned space to at least R-25
- Installation of vapor retarders in non-vented framed floors
- Insulation of interior floors above conditioned spaces to at least R-19
- Installation of radiant barriers in attic or like spaces
- Replacing water heater with electric model with an Energy Factor of 0.92 or higher, or gas model of 0.61 or higher
- Replacing incandescent lights with ENERGY STAR compact fluorescent bulbs and fixtures
- Replace magnetic ballasts with electronic ballasts using a T8 lamp
- ENERGY STAR exit signs
- Low flow toilets
- Low flow faucets
- ENERGY STAR brand appliances

4. If none of the above are feasible explain. N/A

5. Explain if simple weatherization techniques will be implemented during construction. N/A
[DNR Low Income Weatherization Program](#)

Related Information:

[Licensed Professional’s Guide to Energy Star ® for Commercial Buildings - May 2013](#)

[Energy Star Building Upgrade Manual](#)

[Energy Star For Local Governments](#)

[Energy Star Building Update Value Calculator](#)

