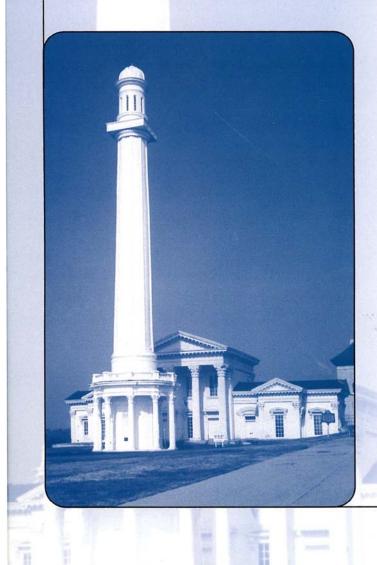
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Preservation Resource Guide for Public Works Managers

By Larry N. Sypolt

COVER PHOTO: Restored Louisville Water Tower. Designated a National Historic Landmark in 1971, the 169foot tower enclosed a water standpipe. The tower represents a Roman column in the Doric order. The base is surrounded by Corinthian columns, nine punctuated by Greek classical figures and one by an American Indian. Photo by Emory L. Kemp.

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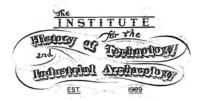
By Larry N. Sypolt

1997

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Preservation Resource Guide For Public Works Managers

# FOREWORD

Historic preservation as a discipline had its beginnings with Williamsburg in the 1920s. So successful was this venture that, in the minds of many, Williamsburg is historic preservation. So pervasive is this idea that one often hears, "when in doubt use colonial details from Williamsburg." Until recently, preservationists have lavished their efforts on restoring high-style houses and buildings often associated with prominent people.

Currently, however, historians and, in turn, preservation professionals have realized the dominant role public works have played in developing our modern urban society. Cities and towns would cease to function without public works. The preservation and interpretation of our rich public works past often falls on public works agencies from the federal level to humble town authorities. Historic public works include dams, reservoirs, aqueducts, water treatment plants, various utilities such as gas works, electric generating stations and distribution systems and telecommunications. The list also includes such transportation items as streets, highways, railways, canals, navigable waterways, and all of their associated structures. These are the sinews which have proved to be fundamental in developing commerce and industry in the context of urban society and transportation systems.

The preservation of these historic public works is the responsibility of professionals working at all levels of government. Thus, there has developed an urgent need to provide a comprehensive guide to resources and organizations involved in all aspects of preservation of historic public works. As a result of the comprehensive nature of this guide, it may well serve a much larger audience than public works professionals alone.

Emory L. Kemp Past President Public Works Historical Society

December 16, 1996

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# USING THIS GUIDE

This resource guide is intended for use by public works managers who find themselves encountering the world of historic preservation. Most people responsible for the management of public works structures and facilities are unfamiliar with the preservation terms, concepts and regulations that may apply to historic resources in their care. They may become aware of the historical significance and the requirements attached to a particular property only as a result of the activities of a community organization or the local media.

When a public works manager needs to address complex historic preservation issues, this resource guide is an appropriate place to begin. Containing information for accessing valuable resources including a variety of sources and in a variety of formats, this publication is a concise, historic preservation first stop for public works managers.

An understanding of the types of historic preservation information contained in this guide will help readers make more effective use of it. Probably for the first time anywhere, this guide includes an extensive list of key electronic information resources on preservation that can be accessed through the Internet.

This guide contains considerable information on where to search for local and federal records, as well as brief examples of successful historic preservation projects. Also contained in this guide are —

#### HISTORIC PRESERVATION TERMS

Terms commonly used in historic preservation activities to help readers better understand and communicate with the historic preservation community.

#### CHECKLISTS FOR DESCRIBING HISTORIC ENGINEERING STRUCTURES

A concise list of the key criteria commonly used to identify and evaluate the historic significance of public works structures and facilities such as roads, streets and highways; bridges; airports; waterways; water supply systems and wastewater treatment systems.

# FEDERAL PRESERVATION LAWS AND STATUTES

A list of relevant federal laws and statutes regulating historic preservation activities.

Each law or statute is briefly described and identified by date.

#### NATIONAL REGISTER BULLETINS PRESERVATION BRIEFS PRESERVATION TECH NOTES

Practical publications developed by the National Park Service and disseminated through State Historic Preservation Offices nationwide. These publications include detailed instruction on such activities as preparing nominations to the National Register of Historic Places, roofing historic buildings and removing graffiti from historic masonry.

#### **MAJOR ORGANIZATIONS**

A directory of the most important organizations in the historic preservation field, including addresses, phone numbers, e-mail addresses and Website information where applicable.

#### STATE HISTORIC PRESERVATION OFFICES

A convenient list of the addresses and phone numbers for each of the state historic preservation offices.

#### FORMS FOR NOMINATING STRUCTURES TO THE NATIONAL REGISTER OF HISTORIC PLACES

A sample form indicating the exact type of information required to submit an application for nominating historic resources to the National Register of Historic Places.

#### **BIBLIOGRAPHY**

Books of particular interest to public works managers needing more information about historic preservation.

While this resource guide cannot meet all the historic preservation needs of public works managers, we do believe it provides an excellent place to begin.

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# INTRODUCTION

Public works are developed by and for the benefit of the people. Public works provide the physical infrastructure essential to the social and economic development of America. They make human settlements possible and are indispensable to commerce and industry. Public works are broadly defined as —

The physical structures and facilities developed or acquired by public agencies to house government functions and provide water, waste disposal, power, transportation and similar services to facilitate the achievement of common social and economic objectives.<sup>1</sup>

Government institutions, land, capital, labor and public support are prerequisites for the development of virtually all public works facilities. Since the nation was founded 200 years ago, states, cities, counties, townships and special districts, as well as various agencies of the federal government, have contracted for the construction of thousands of public works projects. Although publically financed, public works are usually constructed by contractors who employ large numbers of individuals from the private sector.

#### PRESERVING THE LEGACY

Today, many public works managers are faced with preservation-related questions while performing the daily activities of their office. Although these managers know that preservation policies or regulations exist, they may be unfamiliar with specific details of the policies or regulations or how to find more information about them.

One of the challenges facing public works managers involves the preservation of historic buildings. If the public works project includes federal funds, National Register or National Register-eligible properties, state- or locally-designated properties or properties included in historic districts, the public works manager may be required to include other federal, state or local agencies in the decision-making process. This guide will help the public works manager find information and answers to the questions that arise when dealing with historic properties and the regulations and levels of government involved.

#### THE PLAYERS

Many organizations provide information on public works, and many of these players are well known to public works managers.

Certainly various federal agencies provide active participation and partnership relating to public works projects. Some of the more prominent ones include the Department of Transportation (with its suborganizations, the Federal Highway Administration, Traffic Safety Administration, Federal Aviation Administration and Federal Railway Administration): the Environmental Protection Agency; the Department of Energy; Federal Emergency Management Agency; the Department of Defense (including all service branches, especially the Army Corps of Engineers); the Department of the Interior (including the National Park Service); the Department of Agriculture (including the US Forest Service); the Federal Housing Administration; the Federal Power Commission and the General Services Administration.

There are state public works agencies in each of the 50 states, and public works departments in each of the estimated 78,000 units of local government, including counties, townships, special and school districts and municipalities. Universities also provide public works expertise and undertake research in areas of technology, most often through their engineering schools. Finally, there are a number of professional and educational associations such as the American Public Works Association.

Less well known to many public works managers are the agencies and organizations that regulate and support the preservation of historic resources including public works. This resource guide will familiarize public works managers with the major players in historic preservation.

#### FREQUENTLY ASKED QUESTIONS

This guide provides many answers to preservation questions most frequently asked by public works managers, including—

- How do I determine if a resource is historically significant?
- Which agencies should I contact?
- With which regulations must I comply?
- Which state and federal guidelines are designed to assist me?
- What codes must I follow?

- What are the advantages to listing a property on the National Register of Historic Places?
- What restrictions apply to National Register properties?
- Whom do I contact first and what type of information should I request?

These questions enter the minds of city managers, engineers and planners, as well as those in historic preservation organizations. State and federal officials also deal with these same matters, although they may or may not come under the same regulations as the person at the local level. However, all must follow certain rules and regulations that encourage the orderly management of our nation's historic resources.

This guide will assist public works managers at all levels of government to obtain necessary information to make their jobs easier.

## CHAPTER 1 WHERE TO BEGIN

#### **GUIDING LEGISLATION**

Public works managers should understand that the National Historic Preservation Act of 1966, as amended through 1992, is the federal legislation that guides the national system in preserving prehistoric and historic cultural resources. Through this legislation, "...the Secretary of the Interior is authorized to expand and maintain a National Register of Historic Places composed of districts, sites, buildings, structures, and objects significant in American history, architecture, archaeology, engineering and culture." The Act also establishes formal guidelines for state historic preservation programs including designation of a State Historic Preservation Officer to administer each state preservation program and designation of a state review board. The act also establishes as a priority a comprehensive statewide survey of all cultural resources. Additionally, the SHPO is directed to administer federal assistance for historic preservation activities within each state.<sup>2</sup>

#### **ABOUT THIS GUIDE**

This guide explores some of the ways to identify historic properties, and evaluate those that might be historic but have not been officially designated. The guide provides a methodology for researching properties to determine if they are National Registereligible as well as applicable preservation laws and regulations. The guide also provides information on the documentation and treatment of historic properties.

#### **Step 1. Listing Verification**

Check to see if the public works property is listed. Many cities have a local agency or organization dedicated to documenting and preserving community cultural resources. Contact the local planning department, local historic preservation commission, local historical society or the State Historic Preservation Office to determine if the property in question is listed on either a local and/or a state cultural resource inventory.

## Step 2. Researching Historic Properties

Chapters 2, 3 and 4 describe the ways and means to research historic properties.

#### **Step 3. Managing Historic Properties**

Beginning with Chapter 5, this guide details the documentation and treatment of historic properties, including public works.

# CHAPTER 2 LOCAL AND STATE RECORDS

# LOCAL RECORDS

There are several approaches one can take in determining if a resource is historically significant. As mentioned in Chapter l, many communities have a preservation-allied organization, often with access to local records. Many towns have local heritage commissions appointed by city government to identify historic properties and provide input to the local government on preservation and reuse issues. These groups are usually familiar with historic buildings, properties, districts and public works in their area. In many cases, historical societies have valuable information on the history of the area and may also maintain photographic files and records dealing with local history.

# **Planning Records**

Land use and planning records can also provide detailed historical information on a variety of projects. Public service commission or committee records will produce materials dealing with issues on transportation, sanitation, utilities and streets, as well as parks and recreation. Many times, transportation issues are dealt with separately under a transportation commission or committee. Urban renewal reports can provide information on urban renewal projects that may have affected prehistoric or historic resources.

# **Tax Records**

Depending upon year and locality, tax roles usually can provide information by property owner name later records may be cross-indexed by address. If tax roles provide owner name only, the property in question may first be listed without improvements, as land acquisition often pre-dates building construction. Improvements to the property may not always refer to the structure being researched. It is helpful to have a general knowledge of construction costs for the time period in question to determine if improvements to the property are consistent with construction costs for age and type of structure being researched.

## **Permits and Deeds**

City court records contain valuable research materials, and records in these public repositories should already be indexed. Start by looking up the name of a notable person associated with the property and see what records exist pertaining to them. Many times land transactions and building permits will be found. Also, road orders which contain bids for bridges, culverts and rights-of-way will be noted. Records of contracts let by city councils and county courts will contain records of all bids submitted and contracts awarded. Plans are usually required with bids, and if retained, are valuable finds. At the very least, the contractor, plans and specifications should be sought. Beginning and ending dates are normally specified in letting contracts, and may be cited in plans and specifications as well.

The local county court house is another logical place to search for records dealing with public works projects. The county seat would be the responsible party for issuing road orders, bridge building projects and other transportation related works. In many cases, the county court would be the affected government body dealing with water treatment and other public works projects. Reports retained by the county clerk and county commission should contain much of the historic information about contractors, builders and local regulations dealing with all public works structures. The court house should also contain information such as deeds, maps of many different eras, architectural drawings, annual reports, cemetery records, building inspector files, and numerous other files. The county clerk's office may be the best place to begin the investigation.

Various commission and board minutes can also be starting points. Drawings are usually required with bids, and may be found in city records. If these are not stored at a city records facility, contact the project architect's office or the project contractor's office for drawings and specifications. In addition, project dates are usually included on project drawings and contracts.

#### Directories

Old city directories pre-date telephone directories and can be very helpful. They sometimes reveal when a business or individual first appeared, or when a business closed. These can usually be found at the local library, but city and county assessors offices often keep them for tax use. Gazetteers provide basically the same information and are also useful tools.

#### **Local Libraries**

Many libraries have local history collections or local history rooms that contain historical documents and photographs. These rooms are often staffed by a

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person knowledgeable in local history. The library reference department might also have publications dealing with preservation issues and laws.

The public library will be able to interlibrary loan (ILL) materials that public works officials need but that are not held in the local library. Many times, the library provides this service on a cost recovery basis (postage, etc.), and sometimes it is free. Check with your local library about library loan policies.

The public library can also provide research services online. Library staff may conduct on-line searching or provide computers on a sign-up basis for individuals to undertake their own research. Chapter 4 addresses electronic resources that might assist in on-line research.

If your local community has a university or college with a library, that institution will hold materials that are normally not found in the local public library. Institutional libraries might also be partial or full repositories of government documents and publications. Selected libraries are full government document depositories, which means that they are sent all items produced by the federal government. Many other institutional libraries are partial depository libraries, which means they accept only selected materials produced by the government. These libraries should be checked for the type of materials held in their collections. They can be very helpful in providing preservation legislation information.

Local newspapers are a valuable resource when conducting local history research. Prominent community members are often mentioned in local newspapers. Special editions and industrial editions to the local newspaper may also provide information on the property or individual(s) being researched.

#### **Local Newspapers**

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Preservation of local newspapers has become a national priority in recent years. The United States Newspaper Project is a program sponsored by the National Historic Publications and Records Commission. NHPRC provides grants to states to survey and inventory all known newspapers in a state and microfilm as many issues as can be located. The microfilm is then housed at one or more repositories in that state for research purposes. Hopefully, all known surviving newspapers in each state will be documented and filmed for permanence. Information about state repositories can be obtained by contacting the National Historic Publications and Records Commission, National Archives Building, 8th & Pennsylvania Avenue, NW, Washington, DC 20408; or telephone 202-501-5600.

One problem when dealing with many records is the format in which they have been preserved. Newspapers are retained on microfilm, as are many city, county and other records. Microfilm is only as good as the person who produces it and the best copy of the records at the time of microfilming. Besides the problem of quality, the time spent reading microfilm or microfiche can sometimes be substantial.

## STATE RECORDS

Records such as National Register nominations and cultural resource surveys are available from the State Historic Preservation Office.

The National Historic Preservation Act of 1966, as amended through 1992, legislated the formation of preservation programs in all US states and territories including an officer in each state to administer the program. In some states the State Historic Preservation Office is located within a state historical society or association. The State Historic Preservation Office functions as the primary contact for the federal preservation program and local preservation programs by disseminating federal funds for historic preservation projects and administering the Certified Local Government program for comprehensive survey and inventory of statewide historic resources as well as nominations to the National Register of Historic Places. For more information, see Appendix J, State Historic Preservation Offices.

## **Certified Local Governments**

In 1980, amendments to the National Historic Preservation Act established the Certified Local Government program that required each state preservation program to develop a mechanism for the certification of local governments in the state. The program's purpose is to expand the existing federalstate preservation partnership to include local governments and citizens. The program was intended to give local governments a formal role in the national historic preservation program and the National Register of Historic Places nomination process.

The program has several additional goals, among which are to foster local preservation activities by providing financial and technical assistance to participating local governments and to develop a broader base of support for the State Historic Preservation Office. The National Historic Preservation Act, as amended, requires state preservation programs to pass on ten percent of the state's annual appropriation from the Historic Preservation Fund to its Certified Local Governments.

Under federal regulations, states develop their own certification procedures and submit them to the National Park Service for approval. State preservation programs began certifying local governments in 1985; by June 1991, some local governments had been certified in all 50 states. Federal regulations require certified local governments to —

- enforce appropriate state or local legislation for the designation and protection of historic properties;
- establish an adequate and qualified historic preservation review commission by state or local legislation;
- maintain a system for the survey and inventory of historic properties;
- provide for adequate public participation in the local historic preservation program; and
- satisfactorily perform the responsibilities delegated to them under the National Historic Preservation Act.

Interested local governments wanting to become certified apply to the SHPO. The SHPO then reviews the application and, if acceptable, forwards it to the National Park Service for final approval.

CLGs play a special role in reviewing and commenting on National Register nominations. Before a property within CLG jurisdiction may be nominated by the SHPO for inclusion on the National Register, the SHPO must notify the local historic preservation commission, the chief elected local official, and the owner of the property. After providing opportunity for public comment, the historic preservation commission is expected to prepare a report as to whether or not, in its opinion, the property meets the criteria of the National Register. The chief elected local official is also expected to provide a recommendation on the eligibility of the property. Subject to appeal, if both decide the property is ineligible, the SHPO can take no further action on the nomination.<sup>3</sup>

Additional information on Certified Local Governments can be found in —

- Local Preservation-A Compendium of Technical Assistance Material on Local Preservation (Washington, DC: US Department of the Interior, 1987).
- Preservation Planning Manual: Local Historical Commissions. Their Role in Local Government (Massachusetts Historical Commission, 1987).
- *National Register Bulletins*. See Appendix D for more information.
- *Preservation Briefs*. See Appendix E for more information.

#### NATIONAL MAIN STREET CENTER

Main Street managers may assist in researching, documenting or designating historic properties, including public works.

The National Main Street Center, operated through the National Trust since 1977, provides direct, on-site technical assistance to towns, cities and urban neighborhoods; publishes a wide range of training materials; offers membership in the National Main Street Network; sponsors an annual convention; offers a professional certification program; and organizes the Great American Main Street Awards annual competition.

The National Main Street Center helps communities of all sizes revitalize their traditional and historic downtowns and neighborhood commercial districts — their main streets — and serves as the nation's clearinghouse for information, technical assistance, research and advocacy on preservation-based commercial district revitalization.

Contact the National Main Street Center for information on Main Street programs in your state and community. For more information about the National Main Street Program or other National Trust for Historic Preservation programs, see Appendix H, National Trust for Historic Preservation.

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# CHAPTER 3 FEDERAL RECORDS

The public works manager probably has one of the hardest jobs at any level of public service. Sections 106 and 110 of the National Historic Preservation Act of 1966, as amended through 1992, (which are discussed in Chapter 5) place great responsibilities on federal officials when dealing with prehistoric and historic properties. Their task becomes even larger because of vast resources and records.

## **CORPS OF ENGINEERS**

#### **Record Group 77**

The Corps of Engineers, Record Group 77 at the National Archives, is one example of how records are scattered. The Corps of Engineers is one of the largest public works organizations in the world. It manages river transportation, dams, locks, and major construction projects for the Army at military installations worldwide. The Corps is divided into several administrative levels. The smallest level is the district office which usually encompasses several counties in a manageable geographic area. The next level is the division office, which is comprised of several districts. The division offices report to the office of the Chief of Engineers in Washington. Each level keeps records of its activities.

In addition to the records at each level, records are distributed to the National Archives and Records Administration and their regional offices. The old and new records of the Army are divided between two locations. Records newer than 50 years are housed at the new Archives II facility at College Park, MD. Records over 50 years old are housed at the National Archives building in Washington, DC. Archives II also houses most of the maps, prints and photographs in the collection.

Each regional office of the National Archives also keeps Corps records. These records are transferred to the regional repositories on a regular basis. For a simple history research project, the researcher maybe dealing with six research sites. Some of the materials are duplicated at some sites, but the researcher cannot assume all materials have been reviewed until all sites have been consulted.

To make the national search for materials easier, the National Archives has an on-line index. The NARA database is accessible through <gopher.nara.gov> or <http://www.nara.gov>. The Record Groups provides

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a brief outline of records housed at each location. Also, each regional office has an inventory of their holdings online. This allows the researcher to see if any records are held at the site before arranging a visit. *Remember that some documents might not be found in the most obvious place.* 

Some projects might have been constructed by the Corps of Engineers, but sponsored by another agency, such as the Works Projects Administration. Records of the WPA should be searched for information, as well as any other agency that may have participated in the project.

## NATIONAL ARCHIVES RECORDS

One problem that occurs in searching National Archives records is that of parent agencies changing names and responsibilities for departments.

An example of this change is the Bureau of Public Roads (Record Group 30). In 1939, this agency was transferred from the Department of Agriculture to the Federal Works Administration and renamed the Public Roads Administration. Transferred to the Department of Commerce in 1949, it was again renamed the Bureau of Public Roads until the establishment of the Department of Transportation in 1966, when the name was again changed to the Federal Highway Administration (RG 406). Changes such as these tend to confuse researchers who are unaware of the chain of administrative changes.

Another example of this name change is the Public Buildings Service. This agency was formed in 1853 as part of the Department of the Treasury Construction Branch as the Bureau of Construction. In 1933, it was transferred to the Public Building Branch of the Procurement Division. In 1939, the Public Buildings Administration was created by the Federal Works Agency by combining the Public Buildings Branch and the National Park Service's Branch of Building Management. In 1949, it was abolished with the establishment of the General Services Administration, which now manages properties owned and occupied by the federal government.

Contacting the civil works archivist at each of the National Archives centers puts the researcher in touch with the archivist most familiar with the holdings of that center. This archivist is usually a specialist who has a working knowledge in the area of engineering or public works construction and can recommend where to find needed information. A listing of the National Archives and Records Administration Regional Services Facilities is found in Appendix I.

# FEDERAL DOCUMENT INDEXES

There are many aids to finding documents produced by the federal government. Several indexes have been produced over the years to help the researcher. The federal government is the largest publisher of information in the nation, so many access points may be needed to find materials produced over the last 200 years.

#### Poore's

To begin, *Benjamin Poore's Descriptive Catalogue of the Government Publications of the United States, September 5, 1774-March 4, 1881* is a bibliography in chronological order of all federal documents for that period. There is no index of serial volume numbers or the Congress and Session relating to the documents, only a date record and brief description. This catalog was issued as Senate Miscellaneous Document 67, 48th Congress, Second Session.

#### Ames'

Poore's catalogue was followed by Dr. John Ames' *Comprehensive Index to the Publications of the United States Government, 1881-1893.* This index was issued in two volumes and arranged alphabetically by subject, key word in title and personal name. Serial set numbers are given. This index was issued as House Document 754, 58th Congress, Second Session.

## Checklist of US Government Documents

Following *Ames'* index was the *Checklist of United States Public Documents, 1789-1909.* This checklist reproduced the shelflist of the Public Documents Library and is arranged by classification number in three sections: Congressional edition by serial set number, departmental edition by Superintendent of Documents classification number and miscellaneous publications of Congress.

# **Catalog of the Public Documents of Congress**

Beginning with the 53rd Congress, the Printing Act of 1895 provided that the Superintendent of Documents would publish a comprehensive index of public documents from each session. The index continued in print from 1893 through 1940. Its official title was *Catalog of the Public Documents of*  the Congress and of All Departments of the Government of the United States. This was the most comprehensive official bibliographic source for the period. Also included were serial set volume numbers where reference material could be located. Entries include author, government author, subject and frequently title as well as proclamations, executive orders and periodicals.

The Monthly Catalog of United States Government Publications appeared in 1895. It is a list of every publication printed during a month, where it is obtainable and its cost. Prior to July 1976, the Monthly Catalog was arranged alphabetically, either by issuing agency or department — with the exceptions of the publications of Congress, which were divided by form and issuing entity. After July 1976, the Monthly Catalog began using Library of Congress subject headings.

# **US Congressional Serial Set**

The US Congressional Serial Set contains documents and reports issued by the Senate and House of Representatives. Many of the reports contain the entire text, measured drawings and photographs submitted to Congress. The Serial Set was established in 1817 to provide a uniform system for Congressional publishing. A serial number, or accession number, is assigned to the spine of each volume and becomes the locating device. Number one was assigned in 1817 and the numbering continues today.

The *Serial Set* contains volumes that are unique to each Congress, such as the Annual Report of the Chief of Engineers and Annual Report of the Secretary of the Interior. Separate volumes contain reports on river and harbor acts and documentation on floods and other related disasters. An example of the Serial Set would be number 10330, which contains information on all river and harbor legislation, listed alphabetically by river. The dates, congresses, sessions and document numbers appear for each survey and subsequent legislation related to it through 1935. A second volume, number D103.22:R52/972, updates this information to 1970.

## **Congressional Series**

The Tables of and Annotated Index to the Congressional Series of United States Public Documents lists all publications from 1817 through 1893. The first section replicated the Checklist of United States Public Documents, 1881-1893 and gives the serial set number. The second section is a

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useful reference by subject and name, with accompanying serial set numbers.

# Index to the Reports and Documents

Following the *Tables* was the *Index to the Reports* and *Documents of the Congress, With Numerical Lists and Schedules of Volumes, 1895-1933.* This is an alphabetical subject listing of congressional documents and reports contained in the serial set.

## **Numerical Lists**

The *Index* was superseded by the *Numerical Lists* and *Schedule of Volumes (1933-1980)* which is a listing of congressional reports and documents in sequence shown by volume in the serial set. There is no subject access.

## **Serial Set Index**

Finally, there is the *CIS U.S. Serial Set Index*, *1789-1969*. This definitive work encompasses some 330,000 publications issued over the period and is accessed by subject and keyword, numerical lists of report numbers and a schedule of serial volumes.

Federal documents provide information on all transactions of the government. In searching federal documents, it should be kept in mind that the senator or congressional representative who introduced the bill will have related information in his or her personal records and archives. These must be explored and researched as well. These papers might be in private, public or university libraries in the representative's home district. Presidential libraries also contain information relevant to legislation and projects undertaken during a president's administration. A search of possible congressional material in a presidential library must be made in the event that the president served in Congress.

# LIBRARY OF CONGRESS

The Library of Congress contains millions of books and related print, audio, photographic and other materials. The Library of Congress catalog is available online at <http://www.lcweb.loc.gov>. From the menu screen, follow the directions to free public access of the on-line catalog. Title, subject, author, and call number searches are available. *Government Reports Announcements and Index*, SuDoc number C51.9/3:, or Call Number T1.G6, is an index of reports issued by the federal government. Reports from all departments and agencies are indexed in these monthly volumes. Reference numbers refer the researcher to the proper citation of the report and ordering information. An annotation is also provided for each entry. *The Congressional Record*, formerly the *Congressional Globe*, is a daily log of all that is said in Congress. Everything that comes before the two houses is included in the *Congressional Record*. Each session of Congress lasts two years, and the last volume of the *Congressional Record* for each Congress contains a History of Bills section. An index precedes this section pointing the researcher to the proper Senate or House bill. The history of the bills provides information on the introduction of legislation, joint sponsorship, committee meetings and reports and all relevant information through bill passage.

#### MANUSCRIPTS

Another good reference for archival material is the *National Union Catalog of Manuscript Collections*. This publication lists archival holdings in public and private repositories that are not cataloged in the National Archives. Listings are by subject, principal person, project and title, with a brief annotation of holdings and location. These government sources are recommended for the comprehensive information they contain on legislation dealing with public works projects. House, Senate and Executive documents provide a starting place for research. With this information, the researcher can access complete text documents dealing with public works.

#### REGIONAL DEPOSITORY LIBRARIES

Many of the records listed above can be found in US Government Regional Depository designated libraries. Each state has at least one regional depository library, and several selective depository libraries. Regional Depository Libraries are required to take and maintain every item shipped to them that is published by the Government Printing Office. Selective Depository Libraries are required to take only what they select to keep in their holdings, so they may not have a complete collection of federal documents. Regional Depository Libraries are generally located at major universities throughout the country. Contact the local public library or college/university library for information on the closest Regional Depository Library.

Federal government information can be located online through the University of Michigan federal government Website, <a href="http://www.lib.umich.edu/libhome/Documents.center/govweb.html">http://www.lib.umich.edu/libhome/Documents.center/govweb.html</a>.

# CHAPTER 4 ELECTRONIC RESOURCES

The World Wide Web can provide valuable information on archival holdings around the country. The Web offers search tools to find information on any subject imaginable. To obtain access to the Web, a user must connect to the Internet through a service provider such as America Online, the Microsoft Network or other Internet service providers. There is usually a monthly charge for a specified number of hours of usage, with additional hours costing extra. Check what is available in your local area as different providers offer many different types of services.

Once you are logged onto the Web, the possibilities are endless. Frequently used search engines include Alta Vista, Lycos, Starting Point, Web Crawler, World Wide Worm and Yahoo. See Appendix N, Searching the Internet: Directories and Indexes, for more information.

After selecting a search engine, type key words in the search field, then click on the search button. A list of Websites will be displayed. These addresses are "hot" linked, which means you can click on the Website address and automatically be linked to that Website.

# THE FEDERAL GOVERNMENT ONLINE

The Internet has rapidly become a useful tool in obtaining information from public as well as private sources. There are many ways to access information from all departments of the government. One resource for researchers is the Library of Congress Website which links to government agency databases and library catalogs at <http://www.lcweb.loc.gov>.

<Wiretap.spies.com> produces menus for information on historical documents of the US from the time of independence to the present. It also provides access to the *Citizens Guide to Using the Freedom of Information Act, Fair Credit Reporting Act*, presidential documents from the *Federal Register*, historic speeches and addresses, treaties and international agreements, United Nations resolutions and the *World Factbook*.

The National Archives and Records Administration also has a listing of archival resources on the Web. The NARA home page can be accessed at <http://www.nara.gov> or

<Gopher://gopher.nara.gov>, then choose <Other Gopher Services/Archival Resources>, then choose from Maryland State Archives, New York State Archives and Records Administration, Rhode Island State Archives, National Association of Government Archives and Records, List of Manuscript and Archives Repositories (Johns Hopkins University), Guide to Archives on the Internet (University of Michigan), and Conservation Online (Resources for Conservation Professionals).

Other NARA online quick access locations:

#### CLIO

<http://www.nara.gov> <gopher://gopher.nara.gov/>

#### NARA Audiovisual Information Locator Database

<http://www.nara.gov/nara/nail.html>

#### Government Information Locator Service

<http://www.nara.gov/gils/gils.html>

# Federal Register (Full text daily)

<http://cos.gdb.org/repos/fr/fr-intro.html>

#### Full Text of US Government Manual

<http://www.access.gpo.gov/nara/>

# **Reference Inquiries by e-mail**

<inquire@nara.gov>

The U.S. Government Manual 1995-forward, available online as cited above, is a 900+ page manual providing up-to-date information on the missions, programs and activities of federal agencies, as well as the names of top officials in each agency, and a list of senators and representatives. It also provides extensive and useful data about the legislative, judicial and executive departments with comprehensive name and subject/agency indexes. A special feature of the book is the "Sources of Information" section, listing addresses and telephone numbers for each agency for employment, government contracts, publications, films and other services available to the public. Another important feature of the Manual is the detailed section on federal agencies that have been terminated, transferred or had changes in name since March 1933.

The Johns Hopkins University selection will include archives from the American Library Association, Library of Congress (Motion Pictures and TV), NARA, Texas State Archives, Wisconsin State Historical Society and others. For direct access to the Johns Hopkins University menu enter, <gopher://musicbox.mse.jhu.edu> then choose <Other Gophers and the Other Archives>.

The US Geological Survey gopher system provides information about the agency, publications and information about geology, hydrology, cartography and geographic information systems, <gopher info.er.usgs.gov>.

#### PRESERVATION RESOURCES ONLINE

There are many different Websites that offer various types of information on preservation projects, including —

#### **National Park Service**

<http://www.cr.nps.gov>

## National Center for Preservation Technology and Training

<http://www.ncptt.nps.gov>

## **Public Works Historical Society**

<http://www.pubworks.org>

There are many more federal and private Websites of interest to public works officials —

## **TRANSPORTATION SITES**

American Public Transit Association

<http://www.apta.com>

Bridge Engineering <http://www.best.com/~solvers/bridge.html>

## Federal Highway Admin TechCenter — Pavement/Bridge/Safety/Traffic (DOT)

<http://www.dot.gov/dotinfo/fhwa/hta/fhwahta.html>

#### Intelligent Transportation Systems — ITS

<http://www.itsonline.com>

#### Infrastructure Technology Institute — Northwestern University

<http://iti.acns.nwu.edu>

#### **Intelligent Transportation Systems**

<http://www.io.com/~itsol/index>

# Local Transportation Assistance Program

<http://patriot.net/~ltap.html>

# **MC Trans Software Center**

<http://www-mctrans.ce.ufl.edu>

## **National Transportation Statistics**

<http://www.bts.gov/>

#### **PC Trans Software Center**

<http://kuhub.cc.ukans.edu/ ~pctrans/index.html>

## Saskatchewan Transportation Site

<http://www.engr.usask.ca/tc/index.html>

#### **Transportation Research Board**

<http://www.nas.edu/trb/trb.html>

#### Washington State DOT

<http://www.wsdot.wa.gov/>

## WATER WORKS SITES

# American Water Works Association

<http://www.awwa.org/>

# SW Florida Water Management District

<http://www.dep.state.fl.us/swfwmd>

#### **Texas Water Resources Institute**

<http://twri.tamu.edu>

#### **Trenchless Technology** <http://sunburn.uwaterloo.ca/nasttsc>

## WasteWater Virtual Library

<http://www.halcyon.com/ cleanh2o/ww/welcome.html>

#### WaterWiser Water Resources

<http://www.waterwiser.org>

#### **ENGINEERING AND ENVIRONMENT SITES**

# **Civil Engineering School** — **Princeton University**

<http://dragon.princeton.edu/~dhb>

# **Civil Engineering School — Purdue** University

<http://www.ecn.purdue.edu>

# **Civil Engineering Virtual Library** — Georgia Tech

<http://www.ce.gatech.edu/WWWCE/home.html>

#### Engineering and Technology — **Galaxy Website**

<http://galaxy.einet.net/galaxy/ Engineering-and-Technology.html>

#### Schwarze American Sweeper Forum

<http://www.schwarze.com/asforum.html>

## ADVOCACY

# **American Resources Information** Network

<http://www.worldweb.net/~arin>

# **Greenbelt Alliance**

<http://www.rahul.net/gba>

## **Planning Commissioners Journal:** "Takings" Resource Page

<http://www.webcom.com/~pcj/takings.html>

# ARCHEOLOGY

Archigopher <gopher://libra.arch.umich.edu>

ArchNet <http://spirit.lib.uconn.edu/ ArchNet/ArchNet.html>

# National Archaeological Database

<http://galaxy.einet.net/hytelnet/FUL052.html>

# Society for American Archaeology **Bulletin**

<http://alishaw.sscf.ucsb.edu/SAABulletin/>

# Southwestern Archaeology Web Site

<http://www.swanet.org>

# ARCHITECTURE AND PLANNING

# **American Institute of Architects**

<http://www.aia.org>

#### **Architecture/Building** <http://www.unlv.edu/library/ARCH/index.html>

ArchiWeb <http://www.archiweb.com>

ArtSource <http://www.uky.edu/Artsource/artsourcehome.html>

# Virtual Library — Architecture and Landscape Architecture

<http://www.clr.toronto.edu:1080/VIRTUALLIB/ arch.html>

#### Planning and Architecture Related Internet Resources

<http://arch.buffalo.edu:8001/internet/ h\_pa\_resources.html> or <http://www.clr.toronto.edu:1080/VIRTUALLIB/ arch.html>

# International Institute for Sustainable Development

<http://iisdl.iisd.ca/>

# The Center for Understanding the Built Environment

<http://www.webcom.com/~pcj/cube.html>

#### ARCHITECTURAL CONSERVATION

# **Conservation OnLine**

<http://palimpsest.stanford.edu>

## **Conservation Information Network**

<http://sul-server-2.stanford.edu/waac/wn/wn09/ wn09-3/wn09-304.html>

# **CULTURAL RESOURCES**

#### American Cultural Resources Association

<http://www.mindspring.com/~wheaton/ ACRA.html>

# Cultural Resource Management and Government Agencies

<http://spirit.lib.uconn.edu/ArchNet/Topical/CRM/ CRM.html>

## **HISTORIC PRESERVATION**

# National Trust for Historic Preservation

<http://www.nthp.org>

#### **National Trust Library**

<http://www.itd.umd.edu/UMS/UMCP/NTL/ ntl.html>

Preserve Net <http://www.preservenet.cornell.edu/>

#### Internet Resource Guide to Heritage Conservation, Historic Preservation and Archeology

<http://www.ncptt.nps.gov/pttinfo\_about\_fs.stm>

#### **Working With Section 106**

<http://achp.gov/work106.html>

#### 36CFR Part 61 (Procedures for Approved State and Local Government Historic Preservation Programs)

<http://www.lib.uconn.edu/ArchNet/Topical/CRM/ USdocs/36CFR61.html>

# HISTORY

# **Institute for Historical Research**

<http://ihr.sas.ac.uk/ihr/bbs.ihr.html>

# University of Kansas Guide to Worldwide History Sources

<http://history.cc.ukans.edu/history/ WWW\_history\_main.html>

#### **History Computerization Project**

<http://www.directnet.com/history/>

## INTERNATIONAL PRESERVATION

## International Council on Monuments and Sites

<http://www.icomos.org>

#### World Heritage <http://www.unesco.org/whc/welcome.htm>

#### **MUSEUMS AND THE ARTS**

#### **International Council of Museums**

<http://www.icom.org/ICOM/>

## The Getty Research Institute for the History of Art and the Humanities

<http://www.getty.edu/gri/>

#### NATURAL RESOURCES

#### Sierra Club

<http://www.sierraclub.org/>

#### The Trust for Public Land

<http://www.igc.apc.org/tpl>

#### NON-PROFIT MANAGEMENT

#### Impact On-line

<http://www.webcom.com/~iol>

## **OTHER SITES**

## Committee for the National Institute for the Environment

<http://csf.colorado.edu/mail/cnie/current/0076.html>

#### Federal Emergency Management Agency

<http://www.fema.gov/homepage.html>

#### National Energy Information Center

<http://www.eia.doe.gov>

#### LISTSERVS

The listserv is an important research tool because it puts you in touch with many subscribers at institutions around the world and provides a forum for topical exchange. Messages requesting information on particular projects may be posted, and subscribers are free to respond. Following are those listservs of potentially greatest interest to public works managers (obtained from *The Internet*  Resource Guide to Heritage Conservation, Historic Preservation and Archeology).

# AAT-L

AAT-L is a listserv for current and/or future users of the Art and Architecture Thesaurus. The purpose of this listserv is to facilitate timely discussion of matters of mutual interest between subscribers and to provide a more expeditious route of communication between the AAT office and AAT users. To subscribe, use the following address, <listserv@uicvm.cc.uic.edu>, leave the subject line blank and in the body of the message, type the single line, <Subscribe AAT-L Your Name>.

#### ACRA-L

The discussion list of the American Cultural Resources Association began in November 1995. The list is designed as a place for people interested in ACRA's lobbying efforts and for those who wish to discuss current issues. To subscribe, use the following address, <majordomo@mindspring.com>, and in the body of the message, type the single line, <subscribe acra-L>.

## AIA-L

The AIA List is a moderated list operated by the Archaeological Institute of America. AIA-L is intended to facilitate discussion of the broadest possible range of archeological issues, and provides a forum for discussions of technical and computer questions. To subscribe, use the following address, <majordomo@cc.brynmawr.edu>, and in the body of the message, type the single line, <Subscribe AIA-L Your Name>.

#### AmArt-L

AmArt-L is a moderated discussion list devoted to scholarly and intellectual discussions of specific interest to historians and scholars of American art. AmArt-L addresses American art, artifacts, architecture and related topics from the colonial period to the present. Scholars from other fields with similar interests are welcome to subscribe. The list was initiated in November 1994. To subscribe, use the following address, <listserv@cunyvm.cuny.edu>, and in the body of the message, type the single line, <Subscribe AMART-L Your Name>.

#### ANTHRO-L

ANTHRO-L is a general anthropology electronic bulletin board designed to allow discussion on any

topic related to any part of the wide realm of anthropology and related disciplines. It is archived at the University of Sidney, Australia. <http://www.anatomy.su.oz.au/danny/anthropology/ anthro-l/archiv /index.html>. To subscribe, use the following address, <listserv@ubvm.cc.buffalo.edu>, and in the body of the message, type the single line, <ANTHRO-L Your Name>.

#### ARCH-L

The Archaeology List is unmoderated and was formed to facilitate discussions of archeological problems, especially those concerned with research and excavations. ARCH-L logs and related files are available at <http://tamvml.tamu.edu/ARCH-L>. To subscribe, use the following address,

listserv@listserv.tamu.edu>, and in the body of the message, type the single line, <Subscribe ARCH-L Your Name>.

## **ARCH-METALS**

This list provides a forum for discussion of all aspects of archeo-metallurgy and the dissemination of data related to all aspects of ancient metallurgy and metal artifacts, the applications of material science to archeo-metallurgy, and the development of methodologies to the study of archeo-metallurgical debris. To subscribe, use the following address, <mailbase@mailbase.ac.uk>, and in the body of the message, type the single line, <Join arch-metals Your Name>.

#### ARCHIVES

Archives (Archives and Archivists list) is for those involved or interested in archival theory and practice. To subscribe, use the following address, <listserv@miamiu.muohio.edu>, and in the body of the message, type the single line, <Subscribe ARCHIVES Your Name>.

## **ARCLIB-L**

This e-mail discussion list for librarians of European architectural schools was originally established for Irish and UK architectural librarians. The list was reestablished in November 1994 as a European discussion group at the Interuniversity Computing Center (CINECA) in Italy. To subscribe, use the following address, <listserv@icineca.cineca.it>, and in the body of the message, type the single line, <subscribe ARCLIB-L Your Name>.

# ARTIFACT

The electronic forum for the exchange of views and information on the study of material culture, ARTIFACT was created in response to a suggestion made at the Material Culture Caucus at the 1993 American Studies Association. Its purpose is to bring together the broadly scattered community of material culture scholars. To subscribe, use the following address, <listserv@umdd@umd.edu>, and in the body of the message, type the single line, <Subscribe ARTIFACT Your Name>.

# ARCHITRON

ARCHITRON is the mailing list for the distribution of architecture's electronic journal. To subscribe, use the following address, <listserv@kentvm.kent.edu>, and in the body of the message, type the single line, <Subscribe arcitron Your Name>

#### **BUILT-ENVIRONMENT**

This list provides a forum for the discussion of issues within the built environment, encompassing building, surveying, architecture and civil/mechanical/services engineering. To subscribe, use the following address, <mailbase@mailbase.ac.uk>, and in the body of the message, type the single line, <Subscribe builtenvironment Your Name>.

# CAAH

CAAH is a list for professional art and architectural historians. It is a moderated list meaning you must contact the listowner, Marilyn Lavin, <MALAVIN@pucc.princeton.edu> to enroll, providing information on your architectural or art historical specialty and your university affiliation.

## CIDOC-L

The mailing list of CIDOC, the International Documentation Committee of the International Council of Museums, serves as a focus for the documentation interests of museums and similar organizations. CIDOC-L is intended to serve as an electronic forum for the discussion of all issues related to the field of museum documentation both for members of CIDOC and all others who are professionally involved in the organization's sphere of activities. To subscribe, use the following address, <listserv@nrm.se>, and in the body of the message, type the single line, <Subscribe cidoc-l Your Name>.

# **Conservation DistList**

Conservation DistList is a moderated forum for professionals engaged in the conservation of cultural materials. Although librarians make up most of its users, the scope of participation has broadened to include all fields of conservation. To subscribe, use the following address,

<consdist-request@lindy.stanford.edu>, and in the body of the message, type the single line, <Subscribe Cons Dist Your Name>.

#### **GAARCH-L**

This is the Georgia Archaeology list. To subscribe, use the following address,

stserv@sun.cc.westga.edu>, and in the body of the message, type the single line, <Subscribe GAARCH-L yourname>

## GISARCH

This mailbase discussion list is intended for the discussion of issues relating to the archeological use of Geographic Information Systems. To subscribe, use the following address,

<mailbase@mailbase.ac.uk>, and in the body of the message, type the following two-line message, line 1 <subscribe gisarch Your Name> and line 2<stop>.

#### HERITAGE

This mailing list, begun in late December 1993, was initiated by Heritage Interpretation International in cooperation with Massey University in New Zealand. It is designed for all interpreters, heritage managers, academics, and students interested in the interpretation and presentation of the world's heritage. To subscribe, use the following address, <listserv@massey.ac.nz>, and in the body of the message, type the single line noting capitalization, <SUBSCRIBE HERITAGE Your Name>.

## HISTARCH

This listserv began in April 1994 for historical archeology. HISTARCH is designed to facilitate communication between people interested in such topics as New World Colonial archeology, material culture studies and archeological method and theory. To subscribe, use the following address, <listserv@asuvm.inre.asu.edu>, and in the body of the message, type the single line, <Subscribe HISTARCH Your Name>.

# **H-AMSTUDY**

This is a moderated forum for the discussion of issues within the history field of American studies as well as a conduit for all kinds of field-related activities. Thus notices about conferences, jobs, and fellowships will be reviewed and published on the list. Information about on-line library resources, new databases, CD-ROMS, and demo-files about anonymous ftp, etc. will also be made available. To subscribe, use the following address, <listserv@uicvm.uic.edu>, and in the body of the message, type the single line, <Subscribe H-AMSTUDY Your Name>.

# **H-LOCAL**

This discussion list was begun in November 1994 for state and local history and museum studies. H-LOCAL was established to link its members in a discussion of teaching, research, methodology, and public presentation of state and local history. To subscribe, use the following address, <LISTSERV@MSU.EDU>, and in the body of the message, type the single line, <Subscribe H-LOCAL Your Name, college/org>.

# HTECH-L

This is the discussion group for the history of technology. To subscribe, use the following address, <listserv@sivm.si.edu>, and in the body of the message, type the single line, <Subscribe HTECH-L Your Name>.

# **ICOM-Announce**

ICOM-Announce is intended to provide the electronic network community with a source of information about the activities of the International Council of Museums. List members will receive announcements about the availability of ICOM documents on archive sites on the Internet, as well as general news and information about ICOM's scheduled events. To subscribe, use the following address, <listserv@doc.nrm.se>, and in the body of the message, type the single line, <Subscribe ICOM-ANNOUNCE Your Name>.

# ICOM-L

The International Council of Museums Discussion List is intended to provide an open forum for the discussion of ICOM's activities. It is the primary feedback channel for commentary about material posted on ICOM-Announce. To subscribe, use the following address, <listserv@nrm.se>, and in the body of the message, type the single line, <subscribe ICOM-L Your Name>.

# LARCH-L

This is the Landscape Architecture Electronic Forum. To subscribe, use the following address, <listserv@listserv.syr.edu>, and in the body of the message, type the single line, <sub: LARCH-L Your Name>.

# **MATERIALS-L**

The purpose of MATERIALS-L is to facilitate discussion about the use, reliability and application of current methods for testing the suitability of materials for use in storage, exhibition and conservation of archival, artistic and historic works, and to facilitate cooperative research into more reliable, quantitative and systematic approaches to materials testing.

MATERIALS-L will be of interest to persons who are responsible for the care and preservation of archival, artistic and historic works, and is directly accessible to those who are actively involved in materials testing (e.g., conservation scientists, conservators, collection managers). Those who are actively involved in materials testing and would like to subscribe to MATERIALS-L may do so by providing the following information via e-mail to <james.s.martin@williams.edu>:

NAME, E-MAIL ADDRESS, TITLE (OR JOB), POSTAL ADDRESS, PHONE, FAX, TESTING METHODS, RESEARCH AREAS, REASON FOR SUBSCRIBING TO MATERIALS-L.

## MUSEUM-L

The Museum Discussion List, begun in April 1991, is a general-interest list for museum professionals and others interested in museum-related issues. See the MUSEUM-L FAQ at

<ftp://darwin.nmmh-abq.mus.nm.us/misc/ museum-l-faq.txt.> and the list archive at <gopher://ucmp1.Berkeley.EDU/11/MLists/ museuml>. In September 1994 the list was gatewayed to <Usenet as bit.listserv.museum-l>. To subscribe, use the following address, <listserv@home.ease.lsoft.com>, and in the body of the message, type the single line, <Subscribe MUSEUM-L Your Name>.

## **MUSEUM-ED**

MUSEUM-ED is an open, unmoderated discussion list which serves as a forum for museum educators. Topics for discussion are broad. To subscribe, use the following address, <STPROC@MTN.ORG>, and in the body of the message, type the single line, <SUBSCRIBE MUSEUM-ED Firstname Lastname>.

# NAGPRA-L

This is a discussion list for issues relating to the Native American Graves Protection and Repatriation Act of 1990. To subscribe, use the following address, <majordomo@world.std.com>, and in the body of the message, type the single line, <Subscribe nagpra-l>.

# NAUTARCH

This mailing list was begun in November 1994 for issues relating to nautical and maritime archeology. This is not an automated listserv. To subscribe, send a brief message requesting that you be subscribed to <NAUTARCH-REQUEST@Santafe.Edu>.

# NHCOLL-L

This listserv is co-sponsored by the Society for the Preservation of Natural History Collections and the Association for Systematic Collections. Begun in January 1995, NHCOLL-L discusses issues relating to the preservation and care of natural history collections. To subscribe, use the following address, <listproc @ucmp l. berkeley.edu>, and in the body of the message, type the single line, <SUBSCRIBE NHCOLL-L Your Name>.

# NCSHPO

This electronic mailing list began in May 1995 for the National Conference of State Historic Preservation Officers. At the present time, subscriptions to the list are limited to state historic preservation offices only. SHPO staff who wish to subscribe should use the following address, <listserver@relay.doit.wisc.edu>, and in the body of the message, type the single line, <Subscribe ncshpo Your Name>.

# NYHIST-L

The New York State history electronic discussion list deals with all aspects of New York State history and is intended to be a forum for announcements, discussion, and research inquiries and referrals. The list is open to students and professionals from many fields as well as to those who are simply interested in New York history. It is provided as a public and professional service by New York State Archives and Records Administration. To subscribe, use the following address, <LISTPROC@UNIX10.NYSED.GOV>, and in the body of the message, type the single line, <sub NYHIST-L Yourfirstname Yourlastname>.

## PRESED-L

This listserv was created by the Association for Library Collections and Technical Services of the American Library Association to supplement the Preservation Course and Workshop Instructors Discussion Group of the Preservation and Reformatting Section. To subscribe, use the following address, <listserv@uicvm.uic.edu> and in the body of the message, type the single line, <subscribe PRESED-L Your Name>.

#### **PRESERVATION-L**

This discussion forum began in April 1995 for individuals with an interest in architectural restoration and preservation. The list welcomes both professional and non-professional participants. To subscribe, use the following address, <majordomo@majordomo.netcom.com>, and in the body of the message, type the single line, <Subscribe preservation-l>.

## PUBLHIST

This is an electronic mailing list for public historians. To subscribe, use the following address, <publist-request@husc3.harvard.edu>, and in the body of the message, type the single line, <Subscribe PUBLHIST>.

## **ROCK-ART**

This electronic mailing list is for the discussion of petroglyphs, pictographs, and other forms of rock art. To subscribe, use the following address, stserv@asuvm.inre.asu.edu>, and in the body of the message, type the single line, <Subscribe ROCK-ART Your Name>.

#### **SUB-ARCH**

This underwater archeology discussion list, begun in June 1995, is unmoderated and covers all aspects of underwater archeology including theory, methodology, and conservation of artifacts. SUB-ARCH is aimed at the professional and/or academically-oriented underwater archeologist. To subscribe, use the following address, <LISTSERV@ASUVM.INRE.ASU.EDU>, and in the body of the message, type the single line, <SUBSCRIBE SUB-ARCH>.

# **URBAN-L**

This electronic mailing list provides for information exchange on urban planning. To subscribe, use the following address, <listserv@vm3090.ege.eduitr>, and in the body of the message, type the single line, <Subscribe URBAN-L Your Name>.

## USICOMOS

Begun in May 1995, US/ICOMOS is the mailing list of US/ICOMOS, the US National Committee of the International Council on Monuments and Sites. It is open to all members of US/ICOMOS and others interested in the international aspects of heritage conservation and standards-setting. To get the most out of the list, subscribers are encouraged to join the organization. To subscribe, use the following address, <majordomo@world.std.com>, and in the body of the message, type the single line, <Subscribe usicomos>.

# XYLHIST-L

This list is for the discussion of historical xylosiology — the history and archeology of timber-framed construction and roofs. XYLHIST-L was begun in October 1994. To subscribe, use the following address, <listserv@bloxwich.demon. co.uk>, and in the body of the message, type the single line, <Subscribe xylhist-L Your Name>.

# CHAPTER 5 NATIONAL DOCUMENTATION PROGRAMS

For historic public works, documentation is an important aspect of cultural resources management.

There are four national programs that document cultural resources — the National Register of Historic Places, the National Historic Landmarks program, the Historic American Building Survey, and the Historic American Engineering Record.

#### NATIONAL REGISTER OF HISTORIC PLACES

The National Historic Preservation Act of 1966 established the National Register of Historic Places to be implemented through a state-administered survey program in archeology, history and architecture.

The National Register is the nation's list of properties important in the history, architectural history, archeology, engineering and culture of the United States. It is maintained by the National Park Service, and expanded through nominations by individuals, organizations, state and local governments and federal agencies.

The National Register includes buildings and structures, such as houses, commercial buildings and bridges. It also includes sites such as battlefields, parks and archeological sites. It includes districts, groups of buildings, structures or sites that make up a whole, such as a neighborhood, or industrial complex. It also includes objects — not portable objects, but large immovable properties such as fountains or monuments.

The National Register can be used for a variety of purposes related to planning and public awareness. Information maintained in the National Register can be incorporated into comprehensive plans, area plans and project and tourism development plans. They can also be incorporated into Geographic Information Systems maps that amalgamate environmental and planning data.

National Register documentation can also be made part of heritage education programs to foster an understanding of history and pride in the community at the local level. National Register Bulletins, *How To Apply the National Register Criteria for Evaluation*, and *Guidelines for Completing National Register of Historic Places Forms* provide detailed explanations of guidelines for understanding the National Register and examples of each step in the evaluation process.

The following criteria are excerpted from *How To Apply the National Register Criteria for Evaluation*, and *Guidelines for Completing National Register of Historic Places Forms* and are designed to guide states, federal agencies, and the Secretary of the Interior in evaluating potential entries for the National Register —

- The quality of significance in American history, architecture, archaeology, engineering, and culture is present in districts, sites, buildings, structures, and objects that possess integrity of location, design, setting, materials, workmanship, feeling and association, and
- that are associated with events that have made a significant contribution to the broad patterns of our history; or
- that are associated with the lives of persons significant in our past; or
- that embody the distinctive characteristics of a type, period, or method of construction, or that represent the work of a master, or that possess high artistic values, or that represent a significant and distinguishable entity whose components may lack individual distinction; or
- that have yielded, or may be likely to yield, information important to prehistory or history.

Ordinarily cemeteries, birthplaces, or graves of historical frgures, properties owned by religious institutions or used for religious purposes, structures that have been moved from their original locations, reconstructed historic buildings, properties primarily commemorative in nature, and properties that have achieved significance in the past 50 years shall not be considered eligible for the National Register. However, such properties *will qualify* if they are integral parts of districts that do meet the criteria, or if they fall within the following categories —

- A religious property deriving primary significance from architectural or artistic distinction or historical importance; or
- a building or structure removed from its original location but which is significant primarily for architectural value, or which is the surviving structure most importantly associated with a historic person or event; or

- a birthplace or grave of a historical figure of outstanding importance if there is no other appropriate site or building directly associated with his or her productive life; or
- a cemetery that derives its primary significance from graves of persons of transcendent importance, from age, from distinctive design features, or from association with historic events; or
- a reconstructed building when accurately executed in a suitable environment and presented in a dignified manner as part of a restoration master plan, and when no other building or structure with the same association has survived; or
- a property primarily commemorative in intent if design, age, tradition, or symbolic value has invested it with its own historical significance; or
- a property achieving significance within the past 50 years if it is of exceptional importance.<sup>4</sup>

Besides meeting one or more of the above criteria, a property must also have integrity of location, design, setting, materials, workmanship, feeling and association in order to be eligible. This means that if a property has been seriously compromised by severe alterations, it may be ineligible for listing. It should also be remembered, though, that alterations to a property may themselves have historical value or significance, reflecting changes of style, changing construction techniques or changing social or cultural processes.

#### NATIONAL HISTORIC LANDMARKS

National Historic Landmarks are recognized as our Nation's most important historic and cultural resources. They are buildings, historic districts, structures, sites and objects that possess exceptional value or quality in illustrating or interpreting the heritage of the United States. When the National Historic Landmarks program was enacted in 1935, it was designed, in part, to identify nationally significant properties that might be considered for inclusion in the National Park System.

The National Historic Landmarks program surveys only sites of national significance based on a series of historic theme studies, from prehistoric archeology, agriculture, and architecture through literature, the military, politics, religion and science. When the National Register came into existence, all National Historic Landmarks were incorporated into that list. The National Register and National Historic Landmarks lists are published in the Federal Register, and are also on file at State Historic Preservation Offices.  $^{5}$ 

#### HISTORIC AMERICAN BUILDING SURVEY HISTORIC AMERICAN ENGINEERING RECORD

In 1933, the National Park Service, the American Institute of Architects and the Library of Congress joined together to create the Historic American Building Survey. It was part of the New Deal for America for getting people back to work. Various other agencies, such as the Federal Writers Project, Federal Theater Project and the Index of American Design were begun in the 1930s, but the HABS program is the only one of these programs still in existence.

HABS was the government's first attempt to systematically record America's historic built environment through graphic and written records. It has employed and provided on-the-job training for students of architecture, historians, photographers and others in principles of design, construction and technology and provides a resource for writers, researchers and scholars in many fields.

In 1969, the Historic American Engineering Record was established by an agreement between the National Park Service, the American Society of Civil Engineers and the Library of Congress. Later the American Society of Mechanical Engineers joined the agreement. Today the HABS/HAER collection is jointly administered and continues to grow.

The HABS/HAER collection as of March, 1998 —

•	Number of structures	35,182
•	Number of drawings	53,251
•	Number of photographs	192,949
٠	Number of transparencies	2,296

• Number of data pages 123,610

HABS/HAER publishes and widely distributes research findings from their documentation projects. Frequently, the records, both graphic and written, are published by HABS/HAER, established private presses, HABS/HAER cooperative partners, and project sponsors. These publications are available to the public through many universities, local and national historical societies, State Historic Preservation Offices, the Government Printing Office, or in some cases, from HABS/HAER.

#### HABS/HAER STANDARDS AND GUIDELINES

HABS/HAER standards and guidelines are designed to define acceptable documentation for inclusion in the HABS/HAER collection at the Library of Congress. The standards are used to create the following products —

- HABS/HAER recording projects;
- mitigation documentation in accordance with the National Historic Preservation Act of 1966, as amended through 1992, (16 U.S.C. 470 et seq.); and
- documentation donated to the HABS/HAER collection.

For more information on HABS/HAER guidelines see Appendix C, HABS/HAER Supplemental Information.

## HABS/HAER RECORD GROUP 515 AT THE NATIONAL ARCHIVES

Record Group 515, the Records of the Historic American Buildings Survey/Historic American Engineering Record, was formally established in July 1992 as a permanent collection of HABS/HAER administrative records spanning 1933 to the present. The Record Group contains documents such as the original handwritten memorandum drafted by Charles E. Peterson founding HABS in 1933, the Tripartite Agreement for the HAER program which was established in January 1969, HABS and HAER administrative correspondence, project files, HABS activity reports, minutes of Advisory Board meetings, HABS/HAER publications, posters, audio and visual materials, and administrative photographs. These records are a particularly valuable resource to those interested in HABS and HAER recording programs and their impact on the historic preservation movement in the United States. They complement the formal HABS/HAER Collection of measured drawings, photographs and histories maintained at the Library of Congress, Prints and Photographs Division. For more information on Record Group 515, see Appendix C, HABS/HAER Supplemental Information.

There are four criteria levels of HABS/HAER documentation. If a full HAER project documentation is requested, measured drawings on mylar, large-format photography and historical text are required and can be costly to produce. It is necessary to get a clear understanding of what level of documentation is requested. See the table on page 25 for specific level requirements.

# DOCUMENTING PUBLIC WORKS

Consultants are available for documentation work; Members of the Society of Industrial Archeology, American Institute of Architects and other organizations are available on a consulting basis. Many SHPOs maintain a list of consultants qualified to consult on HABS/HAER documentation projects. For more information on consultants, see Appendix J, State Historic Preservation Offices.

PERFORMANCE STANDARDS OF (SECRETARY OF THE INTERIOR'S STAND	ICE STANDA	ARDS OI	F THE HI	STORIC OR ARCHI	SUMMARY THE HISTORIC AMERICAN BUILDINGS SURVEY/HISTORIC AMERICAN ENGINEERING RECORD (HABS/HAER) DARDS FOR ARCHITECTURAL AND ENGINEERING DOCUMENTATION, <i>FEDERAL REGISTER</i> , SEPTEMBER 29, 1983, PP. 44730-44734)	SUMI UILDING ENGINEE	SUMMARY DINGS SURVI	EV/HISTO	RIC AME	ERICAN E	NGINEER TER, SEPTE	ING RECO	ORD (HAB 1983, PP. 44	<b>IS/HAER)</b>		
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HABS/HAER Documentation Requirements

## CHAPTER 6 STANDARDS FOR PRESERVATION, REHABILITATION, RESTORATION AND RECONSTRUCTION

When considering work on historic properties, the public works manager should understand the types of treatments that may be appropriate for historic public works.

Within the national system of historic preservation, *The Secretary of the Interior's Standards for the Treatment of Historic Properties* are the national standards for preserving our architectural and engineering heritage. This chapter is arranged in four parts listing the standards for preservation, rehabilitation, restoration and reconstruction of historic properties and discuss building materials, interior and exterior features, and provide recommendations for their treatment. Following, by category, are the standards—

# STANDARDS FOR PRESERVATION

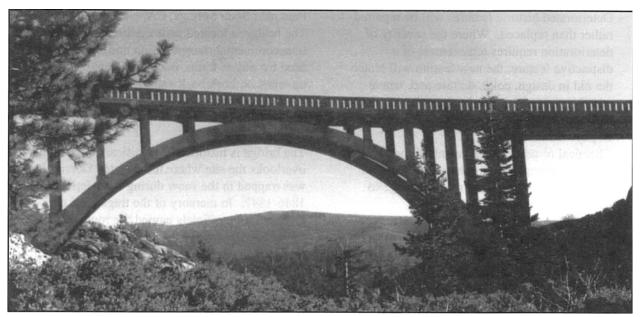
- "A property will be used as it was historically, or be given a new use that maximizes the retention of distinctive materials, features, spaces and spatial relationships. Where a treatment and use have not been identified, a property will be protected and, if necessary, stabilized until additional work may be undertaken.
- The historic character of a property will be retained and preserved. The replacement of intact or repairable historic materials or alteration of features, spaces, and spatial relationships that characterize a property will be avoided.
- Each property will be recognized as a physical record of its time, place and use. Work needed to stabilize, consolidate and conserve existing historic materials and features will be physically and visually compatible, identifiable upon close inspection and properly documented for future use.
- Changes to a property that have acquired historic significance in their own right will be retained and preserved.
- Distinctive materials, features, finishes and construction techniques or examples of craftsmanship that characterize a property will be preserved.

- The existing condition of historic features will be evaluated to determine the appropriate level of intervention needed. Where the severity of deterioration requires repair or limited replacement of a distinctive feature, the new material will match the old in composition, design, color and texture.
- Chemical or physical treatments, if appropriate, will be undertaken using the gentlest means possible. Treatments that cause damage to historic materials will not be used.
- Archeological resources will be protected and preserved in place. If such resources must be disturbed, mitigation measures will be undertaken." <sup>6</sup>

The expressed goal of the standards for preservation is retention of the building's existing historic fabric including form, features and detailing. Protection, maintenance, and repair are emphasized while replacement is minimized. As always, a historic preservation specialist should be consulted before preservation efforts begin.

#### STANDARDS FOR REHABILITATION

- "A property will be used as it was historically or be given a new use that requires minimal change to its distinctive materials, features, spaces and spatial relationships.
- The historic character of a property will be retained and preserved. The removal of distinctive materials or alterations of features, spaces and spatial relationships that characterize a property will be avoided.
- Each property will be recognized as a physical record of its time, place and use. Changes that create a false sense of historical development, such as adding conjectural features or elements from other historic properties, will not be undertaken.
- Changes to a property that have acquired historic significance in their own right will be retained and preserved.
- Distinctive materials, features, finishes and construction techniques or examples of craftsmanship that characterize a property will be preserved.
- Deteriorated historic features will be repaired rather than replaced. Where the severity of deterioration requires replacement of a distinctive feature, the new feature will match the old in design, color, texture and, where possible, materials. Replacement of missing



Rehabilitated Donner Summit Bridge. (October 1995)

features will be substantiated by documentary or physical evidence.

- Chemical or physical treatment, if appropriate, will be undertaken using the gentlest means possible. Treatments that cause damage to historic materials will not be used.
- Archeological resources will be protected and preserved in place. If such resources must be disturbed, mitigation measures will be undertaken.
- New additions, exterior alterations, or related new construction will not destroy historic materials, features and spatial relationships that characterize the property. The new work shall be differentiated from the old and will be compatible with the historic materials, features, size, scale, proportion and massing to protect the integrity of the property and its environment.
- New additions and adjacent or related new construction will be undertaken in such a manner that, if removed in the future, the essential form and integrity of the historic property and its environment will be unimpaired."<sup>7</sup>

Of the four treatments, rehabilitation makes possible an efficient contemporary use through alterations and additions. Latitude is given to replace extensively deteriorated, damaged or missing features using either traditional or substitute materials. Identification, retention and preservation of character-defining features is stressed. An historic preservation specialist trained in application of the Standards should be consulted before undertaking rehabilitation of a historic resource.

#### REHABILITATION CASE STUDY<sup>8</sup> DONNER SUMMIT BRIDGE, OLD HIGHWAY 40, NEVADA COUNTY, CA

The Donner Summit Bridge was constructed during 1925-1926 on Old Highway 40. It was built in the Sierra Nevada Mountains at Donner Pass near Soda Springs, CA, elevation 6,970 feet. The bridge is located on a significant transcontinental transportation corridor that was used by wagon trains, oxen, travelers on foot, travelers on horseback and by the railroad during the 1800s. Automobiles began using the route in the 1900s.

The bridge is historically significant because it overlooks the site where the ill-fated Donner Party was trapped in the snow during the winter of 1846-1847. In memory of the tragedy of the Donner Party, officials named the route over the Sierra Nevada the Donner Summit Pass, and, in turn, the bridge was named the Donner Summit Bridge.

The bridge was designed as an open spandrel concrete arch bridge with baluster window railings. The bridge is 241 feet long with a 24 foot wide deck. It is on a seven percent grade and is super elevated at about a maximum of ten percent. The Nevada County Department of Transportation decided to significantly repair the bridge in 1985. Environmental concerns precluded the introduction of fill to construct a replacement bridge. During hearings on the project, it was decided the bridge should be rehabilitated and the deck and railings rebuilt using the original design in order to preserve the historic character of the bridge. The scenic setting of the bridge also influenced this decision.

The railing design was the most significant point of controversy in the rehabilitation. To preserve the original appearance of the bridge, Nevada County proposed reconstructing the window type railing in its original form. After much research, a design called Texas T-411, which integrated safety and integrity, was approved. This design retained the original appearance of the railing and incorporated a new observation platform similar to the old one. Marks in the railing from the original form boards were duplicated by hand.

The bridge project was managed by Tom Miller, Nevada County Director of Transportation. The designer was Wei Koo and Associates of Roseville and Orange, CA. The construction contract was awarded on May 17, 1995, and work started immediately. The total cost of the project was \$2,651,000, which included \$1,697,500 in construction costs and \$498,500 in engineering costs. Funding was from a unique combination of sources, which included Federal Highway and Bridge Rehabilitation Funds, a special California State Park grant, Nevada County Local Transportation Funds and Federal Aid to Secondary Funds.

The Donner Summit Bridge rehabilitation was completed in October 1995, in accordance with Secretary of the Interior's Standards. It is an outstanding example of bridge and highway design integrated into a scenic highway route. With its graceful design, its location in the high Sierra Nevada Mountains and its magnificent view of Donner Lake, the historic bridge is one of the most spectacular bridges in California.

#### REHABILITATION CASE STUDY <sup>9</sup> PORT OF BELLINGHAM-FAIRHAVEN STATION, BELLINGHAM, WA

Adaptive reuse is a form of rehabilitation which sympathetically adapts an historic structure to



Port of Bellingham (WA) Fairhaven Station

accomodate a new use while retaining the characterdefining features and spaces of the structure. Adaptive reuse can be more cost effective than new construction.

The Port of Bellingham decided to combine available local and state funds to enhance transportation services in Whatcom County and preserve a building of local historic significance. The Fairhaven Station is the last remnant of an integrated compound that included a warehouse, a can and box factory, cannery and shipyard. By linking the new train station to the Bellingham Cruise Terminal, the project produced one of the states newest multimodal facilities, or transportation centers, by creating a new focus for various modes of travel including Amtrak, Greyhound Bus Lines, the Whatcom Transit Authority, the Alaska Marine Highway, San Juan Island and Victoria, British Columbia passenger ferries, airport and local taxi service.

The project consisted of the rehabilitation of a 20,000 square-foot building, design and construction of a track side passenger boarding area, design and construction of a covered walkway connecting to the cruise area and parking areas. Chosen for the project were architects Merrit and Pardini and contractor Tiger Construction, Ltd. The projected completion date was June 30, 1995, at a cost of \$3,882,000.

## **Involving the Public**

Public meetings were held with the community to explain the project; and special events were held, such as walk throughs of the new trains, to generate excitement in the community for the new train station. Ground breaking ceremonies and an inaugural run, carrying dignitaries from the United States and Canada, were held. To develop an appreciation for the historical significance of the building, the port worked with the Whatcom Museum of History and Art to produce an indoor mural depicting the history of the Bellingham-based Pacific American Fisheries Company, which operated canneries throughout Alaska from this site and shipped products throughout the world.

## **On Time and Within Budget**

The strict five-month timeline was adhered to despite several setbacks, including having to construct a new foundation under the existing building on an area of old waterfront fill with a high water table. The project successfully preserved the historic flavor of the old building while modernizing it to meet seismic requirements. This entailed rehabilitating an unreinforced masonry building with an entirely new structural system within the existing walls. Also, upon exposing the interior of the building, the contractor had to reorient existing structural members to accommodate the seismic design.

The building needed to be functionally linked to the Bellingham Cruise Terminal, a marine transportation facility 150 yards away. This was accomplished with a covered walkway thematically linked with design elements of the cruise terminal built in 1989. Beauty and durability was achieved in public transportation areas using materials such as terrazzo. The overall quality of design was recognized by a recent award from the American Institute of Architects, as well as local awards for landscaping of the grounds. Another innovation was to reorient the approach to the building. The previously inaccessible street frontage was opened to foot traffic, with additions of covered walkways and a light tower. Until now, entry was gained through the off-street western side.

The project was completed on time and within budget due to coordination efforts by all parties involved. The port established a team management structure which consisted of the project owners (port and state DOT), inspectors, contractors, on-site owners' representatives and technical support. With on-site owners' representatives and the ports on-site engineer, the port assumed on-site responsibility for project management. Weekly, on-site meetings were held, with problems assigned for immediate resolution. A formal, computerized tracking system was employed to schedule various construction activities. Problems could be resolved almost as soon as they occurred.

# STANDARDS FOR RESTORATION

- "A property will be used as it was historically or be given a new use which reflects the property's restoration period.
- Materials and features from the restoration period will be retained and preserved. The removal of materials or alteration of features, spaces and spatial relationships that characterize the period will not be undertaken.
- Each property will be recognized as a physical record of its time, place and use. Work needed to stabilize, consolidate and conserve materials and features from the restoration period will be physically and visually compatible, identifiable upon close inspection and properly documented for future research.

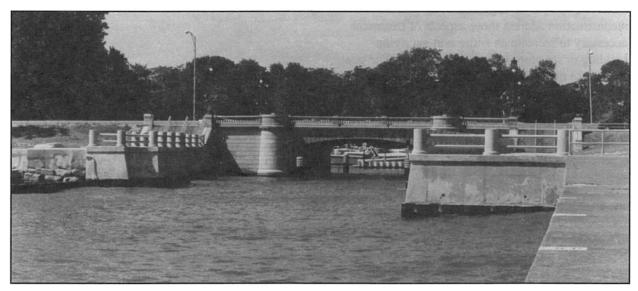
- Materials, features, spaces and finishes that characterize other historical periods will be documented prior to their alteration or removal.
- Distinctive materials, features, finishes and construction techniques or examples of craftsmanship that characterize the restoration period will be preserved.
- Deteriorated features from the restoration period will be repaired rather than replaced. Where the severity of deterioration requires replacement of a distinctive feature, the new feature will match the old in design, color texture and, where possible, materials.
- Replacement of missing features from the restoration period will be substantiated by documentary and physical evidence. A false sense of history will not be created by adding conjectural features, features from other properties or by combining features that never existed together historically.
- Chemical or physical treatment, if appropriate, will be undertaken using the gentlest means possible. Treatments that cause damage to historic materials will not be used.
- Archeological resources will be protected and preserved in place. If such resources must be disturbed, mitigation measures will be undertaken.
- Designs that were never executed historically will not be constructed." <sup>10</sup>

Rather than maintaining and preserving a building as it has evolved over time, the expressed goal of the standards for restoration is to make the building appear as it did at a particular and significant time in its history. As opposed to other treatments, the scope of restoration can include removal of features from other periods and missing features from the restoration period can be replaced, based on physical and documentary evidence, using traditional materials or compatible substitute materials.

#### RESTORATION CASE STUDY <sup>11</sup> LAKE SHORE DRIVE BRIDGE OVER 59TH STREET INLET, CHICAGO, IL

The original 59th Street Inlet Bridge was built in 1895, as part of the World's Columbian Exposition park improvements. The bridge is a single span, multiarch, steel girder structure seated on limestone abutments. The fascia girders are covered with selfsupporting limestone arches to give the appearance of a stone structure. There are rounded turrets at the spring line of the arches, block modillion cornices, balustrade railings and four rectangular, round-ended sculpture bases all made from limestone.

The bridge is listed on the National Register of Historic Places, and as such, was restored in accordance with The Secretary of the Interior's Standards for the Treatment of Historic Properties. Much of the existing limestone was inventoried and reused to preserve the historic character of the bridge. The remaining deteriorated stones were replaced by new limestone, and ashlar granite was reinstalled up to the expected high water mark. The east dock walls on the north and south sides of the bridge were replaced with new stone railings and bollards. New landscaping was provided in these areas. Four



Lake Shore Drive Bridge at 59th Street Inlet

historic light standards were created to replicate the ones used during the Columbian Exposition and subsequently removed from the bridge.

Because of the historic significance of the bridge, every individual stone was documented during the project planning phase. All the stones to be reused were inventoried during construction and restored to the bridge. The deteriorated stones were replaced with limestone and granite of the same dimensions from quarries that supplied the original stone.

This restoration included the recreation of the original historic light standards that were originally part of the bridge. The light standard fabricator, Robinson Iron Works, Alexander City, AL, used historic photographic documentation to recreate the light poles. Each of the light poles has an ornamental base and is topped with a circular crown that originally held an arc lamp; two ship prows extended from each post, which once held incandescent lamps. The Chicago Department of Transportation, working with the Chicago Park District, restored the park area located north and east of the bridge site which had become overgrown and was strewn with rubble. The Park District prepared restoration plans, and the area is now a welcomed addition to the bridge site and affords an area for picnicking and other recreation.

Construction started on June 29, 1994, and was completed on May 26, 1995, at a cost of approximately \$5 million. The project was completed in two phases while the bridge remained open to vehicular traffic. Southbound traffic was detoured to local streets outside the project area while northbound traffic was shifted back and forth on one half of the bridge.

The success of the project was accomplished by the accurate documentation of the stonework which was removed from the bridge. Frequent meetings were required to coordinate this work to insure that project documentation and preservation requirements were met. Stone cleaning and repair were reviewed to insure that the historic stonework was properly conserved.

The project was designed by the engineering firm of Meridian Engineering and Planners Incorporated in association with the architectural firm Hasbrouk, Peterson, Zimoch, Sirirattumrong. The construction manager was Globetrotters. Engineering, Inc.

#### STANDARDS FOR RECONSTRUCTION

- "Reconstruction will be used to depict vanished or non-surviving portions of a property when documentary and physical evidence is available to permit accurate reconstruction with minimal conjecture, and such reconstruction is essential to the public understanding of the property.
- Reconstruction of a landscape, building, structure or object in its historic location will be preceded by a thorough archeological investigation to identify and evaluate those features and artifacts which are essential to an accurate reconstruction. If such resources must be disturbed, mitigation measures will be undertaken.
- Reconstruction will include measures to preserve any remaining historic materials, features and spatial relationships.
- Reconstruction will be based on the accurate duplication of historic features and elements substantiated by documentary or physical evidence rather than on conjectural design or the availability of different features from other historic properties. A reconstructed property will recreate the appearance of the non-surviving historic property in materials, design, color and texture.
- A reconstruction will be clearly identified as a contemporary re-creation.
- Designs that were never executed historically will not be constructed." <sup>12</sup>

Whereas the standards for restoration provide guidance on restoring, or returning building features to an earlier appearance, the standards for reconstruction address those aspects of treatment necessary to recreate an entire non-surviving building or structure with new materials. The goal is to make the building or structure appear as it did at a particular and significant time. With reconstruction, there is little or no extant historic material prior to treatment, and in some cases, nothing visible. It is essential that reconstruction is based upon detailed historical documentation and conjecture is avoided.

# CHAPTER 7 OTHER CONSIDERATIONS

Other factors must be considered when dealing with preserving historic public works. Sections 106 and 110 of the National Historic Preservation Act as amended, building codes, preservation tax incentives and Americans with Disabilities Act compliance are only a few considerations.

## NATIONAL HISTORIC PRESERVATION ACT SECTIONS 106 and 110

Federal agencies have additional responsibilities when dealing with historic structures. Section 110 of the National Historic Preservation Act of 1966, as amended through 1992, states that "The heads of all federal agencies shall assume responsibility for the preservation of historic properties which are owned or controlled by such agency. Prior to acquiring, constructing, or leasing buildings for purposes of carrying out agency responsibilities, each federal agency shall use, to the maximum extent feasible, historic properties available to the agency. Each agency shall undertake, consistent with the preservation of such properties and the mission of the agency and the professional standards established pursuant to Section 101(f), if any preservation may be necessary to carry out this section." <sup>13</sup>

Section 110 further states that, in cooperation with the State Historic Preservation Officer for the state involved, each federal agency will establish a program to locate, inventory and nominate all properties under the agency's control to the National Register. Each federal agency will also initiate measures to assure that where, as a result of federal action, an historic property is to be significantly altered or demolished, steps will be taken to properly record and document the property.

Section 106 of the same Act requires that the head of any federal agency having direct or indirect jurisdiction over a proposed federal undertaking in any state, and the head of any federal department or independent agency having authority to license any undertaking shall afford the Advisory Council on Historic Preservation reasonable opportunity to comment on such undertakings. The Advisory Council has the authority to review all federal programs dealing with historic structures and to act accordingly on each. Where there is a chance of any adverse affects to a historic property, building, structure or object, steps must be taken to avoid, reduce or otherwise mitigate adverse impact to National Register listed and eligible resources.

Section 106 applies to all federal undertakings. These include all federally-funded, permitted or licensed projects, whether or not actually carried out by a federal agency. For example, local housing rehabilitation programs that use Community Development Block Grant funds which are funded through HUD, are required to go through the Section 106 process when properties involved are listed on or eligible for National Register listing.

A historic resources assessment is required if an undertaking affects a property that is at least 50 years old to determine its National Register eligibility.

# PROCEDURES FOR COMPLETING SECTION 106 REVIEW

# Step 1. Identification and Evaluation

In this step, an action is identified as an undertaking for purposes of Section 106, and for potential historic properties identified and evaluated. An action is an undertaking if it results in changes in the character or use of any historic property. Once potential historic properties are identified, they are evaluated for eligibility to the National Register, using National Register criteria. The agency's determination of eligibility is then reviewed by the SHPO. If the SHPO concurs with the agency's determination of eligibility, the property is treated accordingly for purposes of Section 106.

# Step 2. Assessment of Effects

Once historic properties are identified, the agency then determines whether the proposed undertaking will have any effect on any identified historic properties. This is done in consultation with the SHPO. A proposed undertaking has an "effect" if it may alter the characteristics that qualify the property for the National Register. This effect is an "adverse effect" if the proposed undertaking will diminish the integrity of the property's location, design, setting, materials, workmanship, feeling or association. Such effects may include not only physical destruction or damage, but isolation of the property from its setting. The introduction of out-of-character elements, allowing deterioration through neglect, or the transfer of the property are also considered adverse effects. If no effect is found, the agency must notify the SHPO and interested parties and provide appropriate documentation for its finding. If an effect is found, but it is not adverse, then the agency can obtain SHPO's concurrence and notify the Advisory Council on Historic Preservation, or submit its findings directly to the ACHP.

If the effect is found to be an adverse effect as a result of the undertaking, then the agency proceeds to the next step.

### **Step 3. Consultation**

Consultation is a process in which the agency, the SHPO and the ACHP attempt to agree on an approach that avoids, minimizes or mitigates adverse effects on historic properties. Typically, consultation takes place between the agency and the SHPO; the ACHP may be invited or unilaterally decides to join. The purpose of consultation is to consider means of mitigating or reducing adverse effects. Typical mitigation measures may include design changes to eliminate adverse effects, documentation using HABS/HAER standards where substantial change or destruction of the resource is unavoidable, or the relocation or salvage of a resource. The consultation process, when successful, results in a Memorandum of Agreement. This agreement specifies how the undertaking will be carried out, while mitigating the adverse effects. If the consultation process fails, no MOA is produced and the ACHP is required to comment.

### **Step 4. Council Comment**

Under Section 106, the ACHP may comment on federal undertakings affecting historic resources. When an MOA is reached during the consultation process, acceptance of the MOA by the ACHP serves as its comment. However, if no MOA is reached because consultation has failed, then the agency must request council comment. The ACHP then provides written comments to the agency, the SHPO and other interested parties.

# Step 5. Proceeding with the Undertaking

Finally the agency proceeds with the project in accordance with the MOA if one has been reached. If no MOA is reached, the agency is required to take the ACHP comments into account in the undertaking.

### Step 6. Alternate Approaches

The Section 106 regulations provide three alternative means to comply with Section 106—

- Programmatic agreements among an agency, the ACHP and one or more SHPO's, and others
- Comparable regulations developed by an agency and approved by the ACHP
- An agreement between the ACHP and a state, which substitutes a state review system for the 106 process.

### **Step 7. State Review Process**

Many states have their own review procedure, established by the SHPO. The SHPO may enter into agreement with the ACHP, allowing state review processes to substitute for Section 106 procedures. Federal agencies have the option of going through the state review process or normal Section 106 review.<sup>14</sup>

# **BUILDING CODES**

The first step in meeting code requirements is to determine which code is applicable in any given location. The three major codes that most of the nation adhere to are the Standard Building Code used in the southern US, the Uniform Building Code used in the west and the Basic Building Code (soon to be named National Building Code) produced by the Building Officials and Code Administrators and used in the northeastern and midwestern US.

BOCA has taken the lead in a new provision entitled *Repair, Alteration, Addition, and Change of Use of Existing Buildings*<sup>15</sup> which allows individual code requirements to be waived as long as the safety factor is equivalent to that of the new building code. BOCA has also published a *Basic/National Existing Structure Code* which applies to existing structures and dictates that alterations and repairs may be made to existing structures without requiring the existing structure to comply to new construction codes, as long as it complies to the *Code Enforcement Guidelines for Rehabilitation of Existing Structures* issued by HUD. In California, and some other states, the State Historical Building Code provides alternatives to meeting new construction codes for qualified historic buildings.

Historic buildings which have been properly designated historically significant may not be subject to these codes. These structures may fall in a grey area where they may be repaired for the purpose of historic preservation or restoration without being required to conform to the existing code as long as they receive approval from the local or state certifying official. Again, a problem exists in defining what is a historically significant building, with different communities having different definitions. Checking the local and state codes in your area will give a better idea of the requirements you must fulfill.

A booklet offering advice for preservationists faced with code compliance issues is provided by the National Trust for Historic Preservation. *Safety, Building Codes and Historic Buildings*, by Marilyn Kaplan, covers the evolution of the building regulatory system, addresses common code compliance problems faced with old and historic buildings, explains existing rehabilitation codes and suggests regulatory and attitude changes. For more information see Selected Bibliography.

#### **PRESERVATION TAX INCENTIVES**

Many states provide reductions in property and other taxes to encourage preservation projects with historic structures and commercial properties. The federal government also provides preservation tax incentives in the form of a rehabilitation tax credit and a charitable contribution deduction.

"Since 1976, the Historic Preservation Tax Incentives have produced the following benefits for the nation—

- more than 27,000 historic properties have been rehabilitated and saved
- the tax incentives have stimulated private rehabilitation of over \$18 billion
- more than 149,000 housing units rehabilitated and 75,000 housing units created, of which over 30,000 are low and moderate-income units." <sup>16</sup>

Preservation tax incentives are available for any qualified project that the Secretary of the Interior designates a certified rehabilitation of a certified historic structure. A certified historic structure is any building that is listed individually on the National Register of Historic Places, or located in a registered historic district and certified as being of historic significance to the district. A certified rehabilitation is a rehabilitation of a certified historic structure that is certified as being consistent with the historic character of the property and, where applicable, the district in which it is located. The Internal Revenue Code limits the tax credits for rehabilitation to depreciable buildings — buildings used in a trade or business or held for the production of income, such as commercial or rental residential properties. For purposes of charitable contributions only, certified

historic structures need not be depreciable buildings to qualify.

Per the Tax Reform Act of 1986, a 20 percent tax credit for the substantial rehabilitation of historic buildings for commercial, industrial and rental residential purposes, and a 10 percent tax credit for the substantial rehabilitation for nonresidential purposes of buildings built before 1936 is allowed. A straightline depreciation period of 27.5 years for residential property and 31.5 years for nonresidential property for the depreciable basis of the rehabilitated building is reduced by the amount of the tax credit claimed.

The availability of income tax reduction varies by state, so check with the State Historic Preservation Office about available programs. Rehabilitation tax credits apply only to certified rehabilitations, which are approved by the National Park Service as being consistent with the historic character of the the structure or district in which the structure is located. Form 10-168, Historic Preservation Certification Application, should be requested from the State Historic Preservation Office. There is a fee for certification, which is dependent on total rehabilitation costs. Certain criteria must be met for the certification to be approved.<sup>17</sup>

For more information on federal preservation tax incentives visit Heritage Preservation Services online, <a href="http://www2.cr.nps.gov/tps/tax/tax\_p.htm">http://www2.cr.nps.gov/tps/tax/tax\_p.htm</a>.

### AMERICANS WITH DISABILITIES ACT COMPLIANCE<sup>18</sup>

When dealing with historic properties, local building codes may make special exceptions for work conducted on historic properties. Local and state codes in the area in question should be consulted to determine accessibility requirements. For examples, the State of California has adopted a state code, the State Historical Building Code, which sets out procedures when dealing with a qualified historic structure or property. The code not only permits the retention of a structure's original fabric if no lifethreatening hazards are created, but also allows the local enforcement authority to use alternatives to disabled access as long as reasonably equivalent access is assured. In extreme conditions, exemption from the access provision may be possible, but only if the fabric or significant aspect of the building would be destroyed by meeting these requirements, and equivalent services are offered for the handicapped in a non-exempt location.

For more information, Preservation Brief 32, *Making Historic Properties Accessible*, is available electronically, <a href="http://www2.cr.nps.gov/ns\_search/tps/briefs/brief32.htm">http://www2.cr.nps.gov/ns\_search/tps/briefs/brief32.htm</a>> or see Appendix E, Preservation Briefs/Preservation Tech Notes.

#### **ENDNOTES**

- 1. Public Works Historical Society, APWA Website, <a href="http://www.pubworks.org">http://www.pubworks.org</a>>.
- National Park Service. *Federal Historic* Preservation Laws (Washington, DC: US Department of the Interior, 1992), p 7.
- 3. National Register Bulletin, *Certified Local Governments* (Washington, DC: US Department of the Interior, 1992), pp 42-43.
- 4. National Register Bulletin, *How to Apply the National Register Criteria for Evaluation* (Washington, DC: US Department of the Interior), p 1.
- 5. National Historic Landmarks, Illustrating the Heritage of the United States and National Landmarks Assistance (Washington, DC: US Department of the Interior).
- Weeks, Kay D. and Anne E. Grimmer. The Secretary of the Interior's Standards for the Treatment of Historic Properties with Guidelines for Preserving, Rehabilitating, Restoring and Reconstructing Historic Buildings (Washington, DC: US Department of the Interior, 1995), p 18.
- 7. Ibid., p 62.
- 8. *Donner Summit Bridge Report* (Sacramento, CA: APWA Chapter), p 33.
- 9. Public Works Project of the Year Award application, *Port of Bellingham-Fairhaven Station*, 1993, p 43.
- 10. Weeks, Kay D. and Anne E. Grimmer, p 118.
- 11. Public Works Structure of the Year Award application. *Lake Shore Drive Bridge Over 59th Street Inlet* (Chicago, IL: APWA, 1996), p 66.
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- 13. National Register Bulletin, *Certified Local Governments*, pp 42-43.
- 14. Ibid.
- 15. Kass, Stephen L. *Rehabilitating Older and Historic Buildings* (New York: John Wiley and Sons, Inc., 1985).
- 16. <http://www2.cr.nps.gov/tps/tax/tax\_p.htm>.
- 17. Preservation Tax Incentives for Historic Buildings (Washington, DC: US Department of the Interior, 1987), pp 2-12.
- 18. Preservation Brief 32, <http://www2.cr.nps.gov/ ns-search/tps/briefs/brief32.htm>.

# GLOSSARY

AASLH — American Association for State and Local History

ACHP — Advisory Council on Historic Preservation

BUILDING — As defined by the National Register of Historic Places, a building is a resource "...such as a house, barn, church, hotel or similar construction, [and] is created principally to shelter any form of human activity." Building may also be used to refer to a historically and functionally related unit, such as a courthouse and jail or house and barn.

CLG — Certified Local Government

CODE OF FEDERAL REGULATIONS (CFR) — The part containing the National Register Criteria is usually referred to as 36 CFR 60, and is available from the National Park Service.

CULTURAL RESOURCE — Any district, site, building, structure or object significant in American history, architecture, archeology, engineering or culture at the national, state or local level.

DISTRICT — As defined by the National Register of Historic Places, "a district possesses a significant concentration, linkage, or continuity of sites, buildings, structures, or objects united historically or aesthetically by plan or physical development." Examples of districts include residential, commercial and business districts; large farms, estates, ranches and plantations; civic centers, canal systems and large landscaped parks.

EVALUATION — Process by which the significance and integrity of a historic property are judged eligible for National Register listing.

HABS/HAER — Historic American Building Survey/Historic American Engineering Record

INTEGRITY — The unimpaired ability of a property to convey its historic significance.

IDENTIFICATION — Process through which information is gathered about historic properties.

INVENTORY — A repository of information on specific properties evaluated as significant.

LISTING — The formal entry of a property in the National Register of Historic Places.

MOA — Memorandum of Agreement

MULTIPLE PROPERTY LISTING — A group of historic properties related by a common theme, general geographical area and period of time for the purpose of National Register documentation and listing.

NEPA — National Environmental Policy Act of 1969, as amended through 1992. Instructs Federal agencies to consider impacts of projects on environmental, historic, cultural and other kinds of resources, and requires Environmental Impact Statements (EIS).

NHL — National Historic Landmark is a historic property evaluated and found to be of national significance and designated as such by the Secretary of the Interior.

NHPRC — National Historic Publications and Records Commission

NTHP — National Trust for Historic Preservation

OBJECT — As defined by the National Register of Historic Places, "the term 'object' is used to distinguish from buildings and structures those constructions that are primarily artistic in nature or are relatively small in scale and simply constructed. Although it may be, by nature or design, movable, an object is associated with a specific setting or environment." Examples of objects include sculpture, monuments and fountains.

PRESERVATION — The process of sustaining the form and extent of a structure essentially as it now exists. Preservation aims at halting further deterioration and providing structural stability but does not contemplate significant rebuilding.

PRESERVATION PLAN — A series of activities through which goals, priorities and strategies for identification, evaluation, registration and protection of historic properties are developed.

PROPERTY — A property is an area of land containing a single historic resource or a group of resources, and constituting a single entry in the National Register of Historic Places.

RECONSTRUCTION — The process of reproducing by new construction the exact form and detail of a vanished structure, or part thereof, as it appeared at a specific period of time. REHABILITATION — The process of returning a property to a state of utility, through repair or alteration, which makes possible an efficient contemporary use.

RESOURCE — Any building, structure, site or object that is part of or constitutes a historic property.

RESTORATION — The process of accurately recovering the form and details of a property as it appeared at a particular time by removing later work and by replacing missing original work.

SHPO — State Historic Preservation Officer is the official designated by the governor to administer the state's historic preservation program and the duties described in 36CFR Part 61 including nominating properties to the National Register.

SITE — As defined by the National Register of Historic Places, "a site is the location of a significant event, a prehistoric or historic occupation or activity, or a building or structure, whether standing, ruined, or vanished, where the location itself possesses historic, cultural, or archeological value regardless of the value of any existing structure."

STABILIZATION — The act or process of applying measures designed to reestablish a weather resistant enclosure and the structural stability of an unsafe or deteriorated property while maintaining the essential form as it exists at present.

STRUCTURE — As defined by the National Register of Historic Places, "the term 'structure' is used to distinguish from buildings those functional constructions made usually for purposes other than creating human shelter." Examples of structures include bridges, dams, boats and ships, railroad cars and locomotives and aircraft.

SURVEY — A comprehensive gathering of detailed data on the historical and physical character of a community or region through fieldwork and historical research.

# APPENDIX A CHECKLIST FOR DESCRIBING STRUCTURES OF ENGINEERING OR INDUSTRIAL SIGNIFICANCE

# **Railroads, Subways and Related Resources**

- Dates of construction
- Principal engineers
- Distance (length in miles)
- Terminus points
- Grade: Highest and lowest points
- Type of track/gauge (standard or narrow)
- Major buildings and structures along right-ofway that are included within the boundaries
- Historic rolling stock
- Cuts and earthfills
- Dimensions of trolleys
- Power system
- Alterations

## **Roads, Highways and Parkways**

- Dates of construction
- Distance (length in miles)
- Principal engineers and, if any, landscape architects
- Topography
- Width of roadway, shoulders and rights-of-way
- Number and type of bridges, culverts and tunnels
- Major cuts and earthfills
- Grade of highest and lowest points and super elevation
- Surface material
- Types of entrances, exits and intersections
- Traffic control system
- Sloping of banks
- Walls, guardrails and curbing
- Plantings and other landscape features
- Associated buildings within the boundaries, including gatehouses, tollbooths and refectories
- Significant vistas
- Alterations

#### **Canals and Waterways**

- Dates of construction
- Principal engineers

- Elevation at terminus points and the summit level
- Number and type of locks
- Source of water supply
- Average speed and type of navigation (steamboat, towpath or bateau)
- Typical lock dimensions
- Typical boat dimensions
- Wharves and docks
- Lengths in both canalized and slackwater miles
- Historical summary (original aims of company, etc.)
- Alterations

#### Airports

- Dates of construction
- Length of runways
- Surface materials
- Principal engineers
- Air traffic tower (dimensions, height, materials, etc.)
- Communications system
- Hangars
- Terminals
- Historic aircraft
- Alterations

#### **Bridges**

- Dates of construction
- Manufacturer (if prefabricated)
- Engineers
- Association with particular railroad, road, or other transportation route
- Substructure (structure below deck) Height above featured span Material of abutments and piers
- Deck and superstructure (above deck) Type of truss, arch, etc. Materials and dimensions of deck Number of spans and length Construction depth Width of road
- Alterations

#### **Trestles and Viaducts**

- Dates of construction
- Number of spans and lengths
- Engineers
- Association with particular railroad, road or other transportation route
- Number of piers (bents)
- Materials of construction

- Double or single track
- Manufacturer and/or contractor
- Feature spanned (river, valley, gorge, etc.)
- Width
- Major height (water level to deck level)
- Alterations

#### Tunnels

- Dates of construction
- Engineers
- Association with particular railroad, road or other transportation route
- Feature traversed
- Length
- Dimensions of bore
- Double or single track (if a railroad tunnel)
- Materials of construction (liner, portals, etc.)
- Ventilation system
- Engineering problems encountered
- Alterations

# Lighthouses

- Dates of construction
- Engineers
- Approximate dimensions of lighthouse; dimensions at base and top, height of focal plane above sea level
- Material used in construction: Brick, stone, iron, wood-painted, etc.
- Form of lighthouse: Conical, octagonal, rod or steel screw pile tower
- Distinguishing architectural details
- Type of illuminant and lenses used: Existing and previous source; shape of lantern panes; range of light beam
- Special signalling equipment: Fog horns, radio signals, etc.
- Associated buildings and structures within the boundaries, including the keeper's house, oil house, sheds and cisterns
- Alterations

# Water Supply and Control Systems

- Dates of construction
- Construction materials
- Principal engineers
- Flood control systems
- Water distribution systems
- Filtration systems
- Settling tanks

- Associated buildings and structures (gatehouses,dams, pumping station, reservoirs, etc.)
- Purpose (public water, irrigation, flood control, etc.)
- Alterations

#### **Power Dams**

- Dates of construction
- Construction materials
- Principal engineers
- Levee dimensions
- Floodway dimensions
- Gates
- Channel dimensions
- Storage reservoir
  - Slope
  - Size
  - Grade
  - Section
- Waterwheel type (overshot, for example)
- Penstocks
- Power generators
- Number of kilowatts
- Alterations

#### **Power Generating Plants**

- Dates of construction
- Construction materials
- Principal Engineers
- Source of power: Coal fired, steam, nuclear, hydroelectric, etc.
- Buildings and structures comprising facility
- Alterations (See also Power Dams and Electrical Systems)
- Electrical Systems
- Dates of construction
- Construction materials
- Wiring (type, placement above or below ground)
- Substations
- Towers for power lines (dimensions, type, etc.)
- Light fixtures
- Transformer boxes
- Switches
- Alterations (See also Power Dams and Electrical Systems)

#### **Electrical Systems**

- Dates of construction
- Principal engineers
- Wiring (type, placement above or below ground)
- Substations

- Towers for power lines (dimensions, types, etc.)
- Light fixtures
- Transformer boxes
- Switches
- Alterations (See also Power Generating Plants)

# **Heavy Power Machinery**

- Dates of construction
- Cylinder bore and stroke
- Horsepower
- R.P.M. (Revolutions per minute)
- Pounds per square inch (of steam)
- Manufacturer
- Materials
- Type of valves and gear
- Type of crosshead guides
- Type of connecting rod ends
- Type of crank
- Method of drive (rope, direct, etc.)
- Flywheel diameter and face
- Type of condenser
- Uses of exhaust steam
- Changes to engine
- Boiler history, if known
- Earlier power sources on site
- Alterations

### **Sanitary Systems**

- Dates of construction
- Construction materials
- Principal engineers
- Settling tanks
- Piping system
- Filtration system
- Alterations (See also Water Supply and Control Systems)

# Mines and Other Extraction Facilities

- Dates of construction
- Construction materials
- Construction firm
- Principal mining engineers
- Mineral content
- Type of mine (open-pit, etc.)
- Mine dimensions
- Materials and type of conveyance systems (trams, railroads, etc.)
- Shafts, tunnels, pits, and other structures
- Tailings
- Alterations

# Mills, Factories and Other Processing Facilities

- Dates of construction
- Construction materials
- Principal engineers
- Power source (see Power Generating Plants and Heavy Power Machinery)
- Buildings and structures (dimensions, functions, construction materials, physical layout, etc.)
- Site transportation systems (railroad spurs, loading and shipping docks, etc.)
- Alterations

# APPENDIX B FEDERAL PRESERVATION LAWS AND STATUTES

# MAJOR LEGISLATION

# **Antiquities Act of 1906**

This is the nation's first general historic preservation law which authorized the president to designate as national monuments, "historic landmarks, historic and prehistoric structures, and other objects of historic or scientific interest" situated on federal property. Influenced by widespread looting and destruction of prehistoric sites in the southwestern US, this act also established protective regulations for archeological sites situated on public lands.

# National Park System Organic Act, 1916

This act established the National Park Service as a bureau of the Department of the Interior with jurisdiction over nine previously designated national monuments. Subsequent legislation expanded the scope of federal preservation activity and with this, the National Park Service became the administrative agency for the nation's historic preservation program.

# National Historic Sites Act of 1935

This act expanded the role of the federal government in national preservation activities and authorized the Secretary of the Interior to designate National Historic Landmarks; to conduct surveys and research on archeological sites; to acquire, restore, maintain and operate historic properties; and to interpret these resources to the public. The act also provided a permanent legislative basis for the HABS program begun two years earlier to document the nation's architectural heritage.

# National Historic Preservation Act of 1966 Amended 1980, 1992

This act represents a fundamental shift in federal preservation policy, increasing federal involvement in preservation activities nationwide and establishing the organizational structure for the program. Established in 1966 was the National Register of Historic Places, a basic inventory of America's historic built environment including, "districts, sites, buildings, structures, and objects significant in American history, architecture, archeology, engineering and culture." The act also established procedures for the participation of state and local government agencies in the nation's historic preservation program including provisions for granting federal funds to state and local governments in support of historic preservation. Sections 106 and 110 of the act established protection for designated historic resources. The act also established the Advisory Council on Historic Preservation. Significant amendments to the act were passed in 1980 and 1992, requiring owner consent for listing on the National Register, establishing the National Museum for the Building Arts, and establishing the National Center for Preservation Technology and Training.

# National Environmental Policy Act, 1969

This act established national policies for the protection of the environment and declared the responsibilities of the federal government to include the preservation of, "important historic, cultural, and natural aspects of our natural heritage."

# Executive Order 11593, "Protection and Enhancement of the Cultural Environment"

This order further directed the same agencies to uphold their responsibilities for historic resources within their administrative jurisdiction as has been directed by the 1966 National Historic Preservation Act directing further survey and protection of historic resources owned by the federal government.

# Archeological and Historic Preservation Act of 1974

This act authorized the Secretary of the Interior and other federal agencies to preserve or salvage historic and archeological resources threatened by dam construction projects.

# Archeological Resources Protection Act, 1979

This act protects archeological resources on public and Indian lands.

# Native American Graves and Repatriation Act, 1990

This act provides for the protection of Native American graves, burial mounds and cultural property.

### OTHER FEDERAL LAWS AND REGULATIONS PERTAINING TO HISTORIC PRESERVATION

#### **Reservoir Salvage Act, 1960**

Established policies for the preservation of historical and archeological resources that might otherwise be irreparably lost or destroyed as the result of dam construction and other federal building projects.

## **Department of Transportation Act, 1966**

This act protects historic sites from being adversely affected by federal transportation projects.

# Demonstration Cities and Metropolitan Development Act, 1966

This act authorized funding for preservation projects under HUD, urban renewal and housing programs.

### Amtrak Improvement Act, 1974

This act included provisions to promote the preservation and reuse of historic railroad terminals.

### Housing and Community Development Act of 1974

This act consolidated urban grant programs under a single Community Development Block Grant Program.

### Public Buildings Cooperative Use Act of 1976

This act directed General Services Administration to acquire historic structures for federal office use and to promote mixed public uses of historic buildings.

# Housing and Community Development Act of 1977

This act established the Urban Development Action Grant Program.

# American Indian Religious Freedom Act of 1978

This act declared the protection and preservation of Native Americans' religious freedoms to be a national policy.

#### FEDERAL LEGISLATION CONCERNING HISTORIC PRESERVATION TAX INCENTIVES

Since 1976 the Internal Revenue Code has included incentives to stimulate investment in incomeproducing historic buildings. Under the Tax Reform Act of 1986, owners and some lessees of historic buildings were entitled to a 20 percent income tax credit on the cost of rehabilitating such structures for income-producing uses. To qualify, the project must be designated by the Secretary of the Interior as a certified rehabilitation of a certified historic structure. In addition, the Internal Revenue Code also permits a 10 percent tax credit for the rehabilitation of nonhistoric, non-residential buildings built before 1936. No investment tax credit exists for owner occupied residences.

The Internal Revenue Code also permits income and estate tax deductions for charitable contributions of partial interests in historic property, principally easements. In most cases, the property donated must be given in the interest of preserving a historically important land area or a certified historic structure,

Detailed, current information about federal historic preservation tax incentives is accessible at <<u>http://www2.cr.nps.gov/tps/tax/tax\_p.htm></u>.

#### FEDERAL REGULATIONS GOVERNING NATIONAL HISTORIC PRESERVATION PROGRAMS

36 CFR Part 60

National Register of Historic Places

#### 36 CFR Part 61 -

Procedures for approved state and local government historic preservation programs

36 CFR Part 63

Determination of eligibility for inclusion in the National Register of Historic Places

#### 36 CFR Part 68

The Secretary of the Interior's Standards for Historic Preservation Projects 36 CFR Part 73 World Heritage convention

 36 CFR Part 78
 Waiver of federal agency responsibilities under Section 110 of the National Historic Preservation Act

36 CFR Part 800 Protection of Historic Properties-Advisory Council on Historic Preservation

36 CFR Part 801

Historic preservation requirements of the Urban Development Action Grant Program

40 CFR Part 1500 Guidelines for the preparation of Environmental Impact Statements

41 CFR Part 101 Federal property management regulations

#### REGULATIONS GOVERNING NATIONAL HISTORIC LANDMARKS

36 CFR Part 65 National Historic Landmark Program

#### REGULATIONS GOVERNING THE FEDERAL ARCHEOLOGY PROGRAM

43 CFR Part 3 Preservation of American antiquities

43 CFR Part 7 Protection of archeological resources

43 CFR Part 79 Curation of federally-owned and administered archeological collections

# REGULATIONS GOVERNING FEDERAL TAX INCENTIVES

36 CFR Parts 1 and 602 Investment tax credit for qualified rehabilitation expenditures

26 CFR Parts 1, 20, 25, 602 Tax credit for qualified conservation contributions 36 CFR Part 67 Historic preservation certifications

#### REGULATIONS CONCERNING OTHER MAJOR FEDERAL HISTORIC PRESERVATION PROGRAMS

23 CFR Part 771 Environmental Impact and Related Procedures (DOT-Federal Highway Administration)

40 CFR Parts 1500-1517 Regulations of the Council on Environmental Quality

41 CFR Part 101-17 -Assignment and utilization of space (GSA)

41 CFR Part 101-20 -Management of building and grounds (GSA)

This information is drawn from *Federal Historic Preservation Laws, Keeping Time: The History and Theory of Preservation in America, Landmark Yellow Pages, and The American Mosaic: Preserving A Nation's Heritage.* 

Access to many federal historic preservation laws is available online —

National Park Service <http://www.cr.nps.gov/linklaws.htm>

ArchNet <http://spirit.lib.uconn.edu/ArchNet/Topical/CRM/cr musdoc.html>

Preserve/Net Law Index <http://www.preservenet.cornell.edu/law/plawmain.h tm>

20540-4730; by telephone, 202-707-6394; or online, <a href="http://lcweb.loc.gov/rr/print">http://lcweb.loc.gov/rr/print</a>>.

# APPENDIX C HABS/HAER SUPPLEMENTAL INFORMATION

The HABS/HAER database is accessible on the Internet, <a href="http://www.cr.nps.gov/habshaer/database.htm">http://www.cr.nps.gov/habshaer/database.htm</a>>.

The following HABS/HAER Guidelines are available from HABS/HAER, National Park Service, 1849 C Street, NW, Washington, DC 20013-7127; by telephone, 202-343-9618.

- Recording Structures and Sites with HABS Measured Drawings
- HABS Historical Reports
- HAER Field Instructions
- Specifications for the Production of Photographs
- Transmitting HABS/HAER Documentation

A new book that lists all of the structures and properties in the HABS/HAER database was published in 1994, America Preserved: A Checklist of Historic Buildings, Structures and Sites, and includes a comprehensive checklist of the Historic American Buildings Survey/Historic American Engineering Record structures and sites recorded since 1933. The new checklist has been expanded and for the first time, each entry includes the type of documentation and the number of items for each category — the number of measured drawings, photographs and descriptive historic data. To help users locate materials easily and quickly, the Library of Congress shelf list numbers are included.

In 1995, the HABS/HAER database became accessible on the Internet through the National Center for Preservation Technology and Training's Website, <http://www.ncptt.nps.gov>. The list contains ordering instructions for prints, drawings and text; an alphabetical listing by state of property names, addresses, types of documentation and Library of Congress shelf list numbers.

For more information on Record Group 515 contact the National Archives at College Park, 8601 Adelphi Road, College Park, MD, 20740-6001; by telephone, 301-713-6800

For more information about catalogued HABS/HAER documents, contact Prints and Photographs Reading Room, Library of Congress, 101 Independence Avenue, SE, Washington, DC,

# APPENDIX D NATIONAL REGISTER BULLETINS

National Register Bulletins are developed by the National Park Service and are available from your State Historic Preservation Office. See Appendix J, State Historic Preservation Offices, or visit the National Register Website, <http://www.cr.nps.gov/nr/nrpubs.html>.

### **The Basics**

How to Apply the National Register Criteria for Evaluation

How to Complete the National Register Registration Form

How to Complete the National Register Multiple Property Nomination Form

Researching a Historic Property

# **Property Types**

How to Apply National Register Criteria to Post Offices How to Evaluate and Nominate Designated Historic Landscapes Nominating Historic Vessels and Shipwrecks to the National Register of Historic Places Guidelines for Evaluating and Nominating Properties that have Achieved Significance Within the Past Fifty Years Guidelines for Evaluating and Documenting Properties Associated with Significant Persons Guidelines for Evaluating and Nominating Aids to Navigation Guidelines for Evaluating and Registering Historic Archeological Sites and Districts Guidelines for Evaluating and Documenting **Traditional Cultural Properties** Guidelines for Identifying, Evaluating and Registering America's Historic Battlefields Guidelines for Evaluating and Registering Cemeteries and Burial Places Guidelines for Identifying, Evaluating and **Registering Historic Mining Properties** 

# **Technical Assistance for Preparing Nominations**

Definition of National Register Boundaries for Archeological Properties Defining Boundaries for National Register Properties How to Improve the Quality of Photographs for National Register Nominations

### **Other Guidance**

Guidelines for Local Surveys: A Basis for Preservation Planning Examples of National Register Nomination Documentation: Concise Documentation

# APPENDIX E PRESERVATION BRIEFS PRESERVATION TECH NOTES

Preservation Briefs and Preservation Tech Notes are produced by the National Park Service, Heritage Preservation Services, and are available from your State Historic Preservation Office (See Appendix J, State Historic Preservation Offices), or visit the National Park Service's Heritage Preservation Service's free publications Website, <http://www2.cr.nps.gov/freepubs/htm>.

#### **PRESERVATION BRIEFS**

- 1. The Cleaning and Waterproof Coating of Masonry Buildings
- 2. Repointing Mortar Joints in Historic Brick Buildings
- 3. Conserving Energy in Historic Buildings
- 4. Roofing For Historic Buildings
- 5. The Preservation of Historic Adobe Buildings
- 6. Dangers of Abrasive Cleaning to Historic Buildings
- 7. The Preservation of Historic Glazed Architectural Terra-Cotta
- Aluminum and Vinyl Siding on Historic Buildings: The Appropriateness of Substitute Materials for Resurfacing Historic Wood Frame Buildings
- 9. The Repair of Historic Wooden Windows
- 10. Exterior Paint Problems on Historic Woodwork
- 11. Rehabilitating Historic Storefronts
- 12. The Preservation of Historic Pigmented Structural Glass (Vitrolite and Carrara Glass)
- 13. The Repair and Thermal Upgrading of Historic Steel Windows
- 14. New Exterior Additions To Historic Buildings: Preservation Concerns

- 15. Preservation of Historic Concrete: Problems and General Approaches
- 16. The Use of Substitute Materials on Historic Building Exteriors
- 17. Architectural Character Identifying The Visual Aspects of Historic Buildings as an Aid to Preserving Their Character
- 18. Rehabilitating Interiors in Historic Buildings -Identifying Character - Identifying Elements
- 19. Repair and Replacement of Historic Wooden Shingle Roofs
- 20. The Preservation of Historic Barns
- 21. Repairing Historic Flat Plaster Walls and Ceilings
- 22. The Preservation and Repair of Historic Stucco
- 23. Preserving Historic Ornamental Plaster
- 24. Heating, Ventilating, and Cooling Historic Buildings: Problems and Recommended Approaches
- 25. The Preservation of Historic Signs
- 26. The Preservation and Repair of Historic Log Buildings
- 27. The Maintenance and Repair of Architectural Cast Iron
- 28. Painting Historic Interiors
- 29. The Repair, Replacement, and Maintenance of Historic Slate Roofs
- 30. The Preservation and Repair of Historic Clay Tile Roofs
- 31. Mothballing Historic Buildings
- 32. Making Historic Properties Accessible
- 33. The Preservation and Repair of Historic Stained and Leaded Glass
- 34. Applied Decoration for Historic Interiors: Preserving Composition Ornament

- 35. Understanding Old Buildings: The Process of Architectural Investigation
- Protecting Cultural Landscapes: Planning, Treatment and Management of Historic Landscapes
- 37. Appropriate Methods for Reducing Lead-Paint Hazards in Historic Houses
- 38. Removing Graffiti form Historic Masonry
- 39. Holding the Line: Controlling Unwanted Moisture in Historic Buildings
- 40. Preserving Historic Ceramic Tile Floors
- 41. Seismic Retrofit of Historic Buildings

#### **PRESERVATION TECH NOTES**

Doors No. 1: Historic Garage and Carriage Doors: Rehabilitation Solutions

Exterior Woodwork No. 1: Proper Painting and Surface Preparation

Exterior Woodwork No. 2: Paint Removal from Wood Siding

Exterior Woodwork No. 3: Log Crown Repair and Selective Replacement Using Epoxy and Fiberglass Reinforcing Rods

Exterior Woodwork No. 4: Protecting Woodwork Against Decay Using Borate Preservatives

- Finishes No. 1: Process-Printing Decals as a Substitute for Hand Stenciled Ceiling Medallions
- Historic Interior Spaces No. 1: Preserving Historic Corridors in Open Space Office Plans
- Historic Interior Spaces No. 2: Preserving Historic Office Building Corridors

Maintenance No. l: Preventative Care for Classical Lighthouse Lenses

- Masonry No. 1: Substitute Materials: Replacing Deteriorated Serpentine Stone with Pre-Cast Concrete
- Masonry No. 3: Water Soak Cleaning of Limestone

- Masonry No. 4: Non-Destructive Evaluation Techniques for Masonry Construction
- Mechanical Systems No. 1: Replicating Historic Elevator Enclosures
- Metals No. 1: Conserving Outdoor Bronze Sculpture
- Metals No. 3: In-kind Replacement of Historic Stamped-Metal Exterior Siding
- Museum Collections No. 1: Museum Collection Storage in a Historic Building Using a Prefabricated Structure
- Metals No. 4: Relocating and Retrofitting Historic Iron Bridges
- Temporary Protection No. 1: Temporary Protection of Historic Interiors During Construction and Repair

Windows No. 11: Installing Insulation Glass in Existing Wooden Sash Incorporating the Historic Glass

- Windows No. 17: Repair and Retrofitting Industrial Steel Windows
- Windows No. 18: Aluminum Replacement Windows with True Divided Lights, Interior Piggyback Storm Panels, and Exposed Historic Wooden Frames

#### 46 Preservation Resource Guide For Public Works Managers

# APPENDIX F PRESERVATION-ALLIED ORGANIZATIONS

#### **Advisory Council on Historic Preservation**

1100 Pennsylvania Avenue, NW, Suite 809 Washington, DC 20004 202-606-8505 E-mail <achp@achp.org> Web <http://www.achp.gov>

#### **Alliance for Historic Landscape Preservation**

82 Wall Street, Suite 1105 New York, NY 10005

#### American Association for State and Local History

530 Church Street, Suite 600 Nashville, TN 37219-2325 615-255-2971 E-mail <aaslh@aaslh.org> Web <http://www.aaslh.org>

#### **American Association of Fund Raising Councils**

25 West 43rd Street, Suite 820 New York, NY 10036 212-354-5799 E-mail <aafrd@compuserve.com> Web <http://www.aafrc.org>

#### **American Association of Museums**

1575 Eye Street, NW, Suite 400 Washington, DC 20005 202-289-1818 Web <http://www.aam-us.org>

#### **American Council for the Arts**

1000 Vermont Avenue, NW, 12th Floor Washington, DC 20005 202-371-2830 Web <http://www.artsusa.org>

#### **American Historical Association**

400 A Street, SE Washington, DC 20003-3889 E-mail <aha@theaha.org> Web <http://chnm.gmu.edu/aha>

# American Institute for Conservation of Historic and Artistic Works

1717 K Street, NW, Suite 301 Washington, DC 20006 202-452-9545 E-mail <infoaic@aol.com> Web <http://palimpsest.stanford.edu/aic>

#### American Institute of Architects

1735 New York Avenue, NW Washington, DC 20006 202-626-7300 Web <http://www.aia.org>

#### American Planning Association

122 South Michigan Avenue, Suite 1600 Chicago, IL 60603 312-431-9100 E-mail <apa@planning.org> Web <http://www.planning.org>

#### American Society of Interior Designers Historic Preservation Commission

1430 Broadway New York, NY 10018 212-546-3480 Web <http://www.interiors.org>

#### American Society of Landscape Architects

636 Eye Street, NW Washington, DC 20001-3736 202-898-2444 Web <http://www.asla.org/asla>

#### Archaelogical Institute of America

656 Beacon Street Boston, MA 02215-2010 617-353-9361 E-mail <aia@bu.edu> Web <http://csaws.brynmawr.edu:443/aia.html>

#### Association for Preservation Technology

PO Box 3511 Williamsburg, VA 23187 540-373-1621

#### **Center for Corporate Public Involvement** 1001 Pennsylvania Avenue, NW

Washington, DC 20004 202-624-2425

#### **National Building Museum**

410 F Street, NW Washington, DC 20001 202-272-2448 E-mail <leddy@nbm.org> Web <http://www.nbm.org>

#### National Conference of State Historic Preservation Officers

444 North Capitol Street, NW, Suite 342 Washington, DC 20001 202-624-5465 Web <a href="http://sso.ncshpo/index.htm">http://sso.ncshpo/index.htm</a>

#### **National Council for Preservation Education**

c/o David Ames, President University of Delaware Center for Historic Architecture and Design 135 Newark Hall Newark, DE 19716 302-831-1050

#### **National Council of Preservation Executives**

c/o Henry McCartney, President Landmarks Society of Western New York 133 South Fitzhugh Street Rochester, NY 14608 716-546-7029

#### National Council of State Housing Agencies

444 North Capitol Street, NW, Suite 438 Washington, DC 20001 202-624-5899

#### National Endowment for the Arts

1100 Pennsylvania Avenue, NW Washington, DC 20506 202-682-5442 Web <http://arts.endow.gov>

#### National Endowment for the Humanities

1100 Pennsylvania Avenue, NW Washington, DC 20506 202-606-8400 E-mail <info@neh.gov> Web <http://www.neh.fed.us>

#### **National Maritime Alliance**

99 Commercial Street Bath, ME 04530-2564 207-443-4550

#### National Parks and Conservation Association

1776 Massachusetts Avenue, NW, Suite 200 Washington, DC 20036 E-mail <npca@npca.org> Web <http://www.npca.org/home/npca>

#### **National Recreation and Park Association**

22377 Belmont Ridge Road Ashburn, VA 20148 703-858-0784 E-mail <info@nrpa.org> Web <http://www.npca.org/home/npca>

#### **Natural Resources Defense Council**

40 West 20th Street New York, NY 10011 212-727-2700 E-mail <nrdcinfo@nrdc.org> Web <http://www.nrdc.org/nrdc>

#### Nature Conservancy

1815 North Lynn Street Arlington, VA 22209 703-841-5300 Web <a href="http://www.tnc.org">http://www.tnc.org</a>

#### **Organ Historical Society**

PO Box 26811 Richmond, VA 23261 804-353-9226

#### **Organization of American Historians**

112 North Bryan Street Bloomington, UN 47408 812-855-7311 E-mail <oah@oah.indiana.edu> Web <http://www.indiana.edu/~oah>

#### **Partners for Livable Places**

1429 21st Street, NW Washington, DC 20036 202-887-5990 E-mail <partners@livable.com> Web <http://www.livable.com>

#### **Partners for Sacred Places**

1616 Walnut Street, Suite 2310 Philadelphia, PA 19103 215-546-1288 E-mail <partners@sacredplaces.org> Web <http://www.sacredplaces.org>

#### **Preservation Action**

1350 Connecticut Avenue, NW, Suite 401 Washington, DC 20036 202-659-0915 E-mail <preservationaction@worldnet.att.net> Web <http://www.preservenet.cirnell.edu.presaction/ home.htm>

#### **Railroad Station Historical Society**

430 Ivy Avenue Crete, NE 68333 402-826-3356

#### Sierra Club

85 Second Street, Second Floor San Francisco, CA 94105-3441 415-977-5500 E-mail <information@sierraclub.org> Web <http://www.sierraclub.org>

#### **Small Town Institute**

PO Box 517 Ellensburg, WA 98926 809-925-1830

#### Society for American Archaeology

900 2nd Street, NE, Suite 12 Washington, DC 20002-3557 202-789-8200 E-mail <headquarters@saa.org> Web <http://www.saa.org>

#### Society for Historical Archaeology

PO Box 30446 Tucson, AZ 85751-0446 602-886-8006 E-mail <sha@azstarnet.com> Web <http://www.azstar.com/~sha>

#### Society of Architectural Historians

1365 North Astor Street Chicago, IL 60610-2144 312-573-1365 E-mail <info@sah.org> Web <http://www.sah.org>

#### **Trust for Public Land**

116 New Montgomery Street, 4th Floor San Francisco, CA 94105 415-495-4014 E-mail <mailbox@tpl.org> Web <http://www.tpl.org>

#### **Urban Land Institute**

1025 Thomas Jefferson Street, NW, Suite 500W Washington, DC 20007-5201 202-624-7000 Web <a href="http://www.uli.org">http://www.uli.org</a>

#### **US Committee, ICCROM**

c/o Advisory Council on Historic Preservation 1100 Pennsylvania Avenue, NW, Suite 809 Washington, DC 20004 202-606-8505

#### **US Committee, ICOMOS**

401 F Street, NW, Room 331 Washington, DC 20001 202-842-1866 Web <http://www.icomos.org/usicomos>

#### **US Department of Housing and Urban Development** 451 7th Street, SW

Washington, DC 20410

202-708-1422 Web <http://www.hud.gov>

#### **US Department of the Interior**

Bureau of Indian Affairs Office of Trust and Economic Development 1849 C Street, NW MS 1340-MIB Washington, DC 20240 202-208-3711 Web <www.doi.gov/bureau-indian-affairs.html>

#### US Lighthouse Society

244 Kearney Street, 5th Floor San Francisco, CA 94108 415-362-7255 Web <a href="http://www.maine.com/lights/uslhs.htm">http://www.maine.com/lights/uslhs.htm</a>

# APPENDIX G NATIONAL PARK SERVICE

### NATIONAL PARK SERVICE

Web <http://www.nps.gov>

Within the National Park Service, the office of the Associate Director for Cultural Resource Stewardship and Partnerships is responsible for administering national preservation and conservation programs. Under the Associate Director are three national centers: the National Center for Recreation and Conservation, the National Center for Cultural Resource Stewardship and Partnership Programs, and the National Center for Preservation Technology and Training. The latter two national centers are responsible exclusively for cultural resource matters. Component programs of these national centers are listed below.

#### NATIONAL CENTER FOR CULTURAL RESOURCE STEWARDSHIP AND PARTNERSHIP PROGRAMS

1849 C Street, NW Washington, DC 20240

The National Center for Cultural Resource Stewardship and Partnership Programs includes the following offices — American Indian Liaison Office, Partnership Liaison Office, Museum Management Program, National Register/National Landmark Programs, History and Education, Park Historic Structures and Cultural Landscapes, HABS/HAER, Heritage Preservation Services, and Archeology and Ethnography Program. Public works managers may be particularly interested in the work of the following three offices.

# Heritage Preservation Services Technical Preservation Services

For technical preservation information including Preservation Briefs and Preservation Tech Notes. 202-343-9574 E-mail <hps-info@nps.gov> Web <http://www2.cr.nps.gov>

### HABS/HAER

202-343-9618 Web <http://www.cr.nps.gov/habshaer>

### **National Register**

For information on the National Register including National Register Bulletins. 202-343-9559 E-mail <nr\_reference@nps.gov> Web <http://www.cr.nps.gov/nr>

### NATIONAL CENTER FOR PRESERVATION TECHNOLOGY AND TRAINING

NSU Box 5682 Natchitoches, LA 71497 318-357-6464 Facsimile 318-357-6421 E-mail <ncptt@ncptt.nps.gov> Web <http://www.ncptt.nps.gov>

NCPTT is configured in three components — Research, Training and Information Management — , and operates three programs — the Preservation Technology and Training Grants program, the Preservation Technology and Training Projects program, and the Preservation Technology and Training Publications program.

# APPENDIX H NATIONAL TRUST FOR HISTORIC PRESERVATION REGIONAL AND FIELD OFFICES

The National Trust for Historic Preservation headquarters is located in Washington, DC, with regional and field offices throughout the US. For more information on NTHP programs, publications, funding and advocacy, contact the appropriate regional or field office for your state, or visit the NTHP Website, <http://www.nthp.org>.

### **NTHP Headquarters**

National Trust for Historic Preservation 1785 Massachusetts Avenue, NW Washington, DC 20036 202-588-6000 800-944-6847 E-mail <resource@nthp.org> Web <http://www.nthp.org>

### **Midwest Regional Office**

53 West Jackson Blvd., Suite #1135 Chicago, IL 60604 312-939-5547 E-mail <mwro@nthp.org> Serves: Illinois, Indiana, Iowa, Michigan, Minnesota, Missouri, Ohio, Wisconsin

### **Mountains/Plains Regional Office**

511 16th Street, Suite 700 Denver, CO 80202 303-623-1504 E-mail <mpro@nthp.org> Serves: Colorado, Kansas, Montana, Nebraska, North Dakota, South Dakota, Wyoming

### **Northeast Regional Office**

7 Faneuil Hall Marketplace Boston, MA 02109 617-523-0885 E-mail <nero@nthp.org> Serves: Connecticut, Maine, Massachusetts, New Hampshire, New York, Rhode Island, Vermont

### **Northeast Field Office**

1785 Massachusetts Avenue, NW Washington, DC 20036

202-588-6000 Serves: Delaware, New Jersey, Pennsylvania

#### **Southern Regional Office**

456 King Street Charleston, SC 29403 803-722-8552 E-mail <soro@nthp.org> Serves: Alabama, Florida, Georgia, Kentucky, Louisiana, Mississippi, North Carolina, South Carolina, Tennessee, West Virginia

### **Southern Field Office**

1785 Massachusetts Avenue, NW Washington, DC 20036 202-588-6000 Serves: Maryland, Puerto Rico, Virginia, Virgin Islands, Washington, DC

# **Southwest Office**

500 Main Street, Suite 606 Fort Worth, TX 76102 817-332-4398 E-mail <swro@nthp.org> Serves: Arkansas, New Mexico, Oklahoma, Texas

### Western Regional Office

1 Sutter Street, Suite 707 San Francisco, CA 94104 415-956-0610 E-mail <wro@nthp.org> Serves: Alaska, Arizona, California, Hawaii, Idaho, Nevada, Oregon, Utah, Washington, Guam, Micronesia,

# APPENDIX I NATIONAL ARCHIVES AND RECORDS ADMINISTRATION REGIONAL SERVICES FACILITIES

Visit the National Archives and Records Administration online, <a href="http://www.nara.gov">http://www.nara.gov</a>>.

# **Northeast Region**

Frederick C. Murphy Federal Center 380 Trapelo Road Waltham, MA 02154-6399 781-647-8104 E-mail <center@waltham.nara.gov> Web <http://www.nara.gov/regional/boston.html>

10 Conte Drive Pittsfield, MA 01201-8230 413-445-6885 E-mail <center@pittsfield.nara.gov> Web <http://www.nara.gov/pittsfie.htm>

201 Varick Street New York, NY 10014-4811 212-337-1300 E-mail <archives@newyork.nara.gov> Web <http://www.nara.gov/regional/newyork.html>

Building 22 Military Ocean Terminal Bayonne, NJ 07002-5388 201-823-7241 E-mail <center@bayonne.nara.gov> Web <http://www.nara.gov/regional/bayonne.html> *This facility is scheduled to close April 1999*.

### **Mid-Atlantic Region**

900 Market Street Philadelphia, PA 19107-4292 215-597-2303 E-mail <archives@philarch.nara.gov> Web <http://www.nara.gov/regional/philacc.html>

14700 Townsend Road Philadelphia, PA 19154-1096 215-671-9027 E-mail <center@philfrc.nara.gov> Web <http://www.nara.gov/regional/philane.html>

## **Southeast Region**

1557 St. Joseph Avenue East Point, GA 30344-2593 404-763-7477 E-mail <center@atlanta.nara.gov> Web <http://www.nara.gov/regional/atlanta.html>

# **Great Lakes Region**

7358 South Pulaski Road Chicago, IL 60629-5898 773-581-7816 E-mail <center@chicago.nara.gov> Web <http://www.nara.gov/regional/chicago.html>

3150 Springboro Road Dayton, OH 45439-1883 937-225-7236 E-mail <center@dayton.nara.gov> Web <http://www.nara.gov/regional/dayton.html>

#### **Central Plains Region**

2312 East Bannister Road Kansas City, MO 64131-3011 816-926-6920 E-mail <center@kansascity.nara.gov> Web <http://www.nara.gov/regional/kansas.html>

### Southwest Region

PO Box 6216 Fort Worth, TX 76115-0216 817-334-5515 E-mail <center@ftworth.nara.gov> Web <http://www.nara.gov/regional/ftworth.html>

# **Rocky Mountain Region**

PO Box 25307 Denver, CO 80225-0307 E-mail <center@denver.nara.gov> Web <http://www.nara.gov/regional/denver.html>

# **Pacific Region**

PO Box 6719 Laguna Niguel, CA 92607-6719 714-360-2624 E-mail <archives@laguna.nara.gov> Web <http://www.nara.gov/regional/laguna.html>

1000 Commodore Drive San Bruno, CA 94066-2350 650-876-9001 E-mail <center@sanbruno.nara.gov> Web <http://www.nara.gov/regional/sanfranc.html>

## **Pacific Alaska Region**

6125 Sand Point Way, NE Seattle, WA 98115-7999 206-526-6501 E-mail <center@seattle.nara.gov> Web <http://www.nara.gov/regional/seattle.html>

654 West Third Avenue Anchorage, AK 99501-2145 907-271-2145 E-mail <archives@alaska.nara.gov> Web <http://www.nara.gov/regional/anchorag.html>

# **National Personnel Records Center**

Civilian Records Facility 111 Winnebago Street St. Louis, MO 63118-4199 Facsimile 314-425-5719 E-mail <center@cpr.nara.gov>

Military Records Facility 9700 Page Avenue St. Louis, MO 63132-5100 Facsimile 314-538-4005 E-mail <center@stlouis.nara.gov>

# APPENDIX J STATE HISTORIC PRESERVATION OFFICES

For more information about State Historic Preservation Offices and Officers, visit the National Park Service Website, <http://www.cr.nps.gov/shpo>.

# ALABAMA

Alabama Historical Commission 468 South Perry Street Montgomery, AL 36130-0900 334-242-3184

# ALASKA

Department of Natural Resources Division of Parks and Outdoor Recreation 3601 C Street, Suite 1278 Anchorage, AK 99503-5921 907-269-8715

# AMERICAN SAMOA

Department of Parks and Recreation Government of American Samoa Pago Pago, AS 96799 684-633-2384

# ARIZONA

State Historic Preservation Office Office of Historic Preservation Arizona State Parks 1300 West Washington Phoenix, AZ 85007 602-542-4009

### ARKANSAS

Arkansas Historic Preservation Program 323 Center Street Little Rock, AR 72201 501-324-9880 E-mail <info@dah.state.ur.us>

# CALIFORNIA

Office of Historic Preservation Department of Parks and Recreation PO Box 942896 Sacramento, CA 94296-0001 916-653-6624

# COLORADO

Colorado Historical Society 1300 Broadway Denver, CO 80203-2137 303-866-3355

# CONNECTICUT

Connecticut Historical Commission 59 South Prospect Street Hartford, CT 06106 203-566-3005

# DELAWARE

Delaware State Historic Preservation Office Division of Historical and Cultural Affairs 15 The Green Dover, DE 19901 302-739-5685

### **DISTRICT OF COLUMBIA**

Historic Preservation Division Department of Consumer and Regulatory Affairs 614 H Street, NW, Suite 1120 Washington, DC 20001 202-727-7120

# FEDERATED STATES OF MICRONESIA

Office of Administrative Services Division of Archives and Historic Preservation FSM National Government PO Box PS 52 Palikir, Pohnpei, HFSM 96941 011-691-320-2343

### **FLORIDA**

Division of Historical Resources 500 South Bronough Street Tallahassee, FL 32399-0250 850-488-1480

### **GEORGIA**

Department of Natural Resources Historic Preservation Division 57 Forsyth Street, NW, Suite 500 Atlanta, GA 30303 404-656-2840

#### **GUAM**

Historic Resources Division Department of Parks and Recreation PO Box 2950 Agana Heights, GU 96919 011-671-475-6259

### HAWAII

Department of Land and Natural Resources State Historic Preservation Division 1151 Punchbowl Street Honolulu, HI 96813 808-548-6550

# **IDAHO**

Idaho State Historical Society 210 Main Street Boise, ID 83702 208-334-3890

# ILLINOIS

Illinois Historic Preservation Agency Preservation Services Division Old State Capitol Plaza Springfield, IL 62701-1512 217-785-9045

# INDIANA

Division of Natural Resources 402 West Washington Street Indiana Government Center, South, Room 274 Indianapolis, IN 46204 317-232-1646 E-mail <dhpa\_at\_dnrlan@ima.isd.state.in.us>

# IOWA

State Historical Society of Iowa 600 East Locust Street Des Moines, IA 50319-0920 515-281-4358

# KANSAS

Kansas State Historical Society Cultural Resources Division 6425 Southwest 6th Avenue Topeka, KS 66615-1099 913-2272-8681

# KENTUCKY

Kentucky Heritage Council 300 Washington Street Frankfort, KY 40601 502-564-7005

# LOUISIANA

Office of Cultural Development Department of Culture, Recreation and Tourism PO Box 44247 Baton Rouge, LA 70804 504-342-8200

### MAINE

Maine Historic Preservation Commission 55 Capitol Street, Station 65 Augusta, ME 04333 207-287-2132

# REPUBLIC OF THE MARSHALL ISLANDS

Interior Affairs and Historic Preservation Office PO Box 1454 Majuro, MH 96960 011-692-625-4642 E-mail <cnmihpo@itecnmi.com>

# MARYLAND

Division of Historic and Cultural Trust Department of Housing and Community Development 100 Community Place Crownsville, MD 21032-2023 410-514-7600 E-mail <mdshpo@ari.net>

# MASSACHUSETTS

Massachusetts Historical Commission Massachusetts Archives Facility 220 Morrissey Boulevard Boston, MA 02125 617-727-8470

# MICHIGAN

State Historic Preservation Office 717 West Allegan Street Lansing, MI 48918 517-373-0511

### **MICRONESIA**

Federated States of Micronesia Office of Administrative Services Division of Archives and Historic Preservation FSM National Government PO Box PS 35 Palikir, Pohnpei, FSM 96941 691-320-2343

#### **MINNESOTA**

State Historic Preservation Office Minnesota Historical Society 345 Kellogg Boulevard, West St. Paul, MN 55102-1906 612-296-2747

#### **MISSISSIPPI**

Mississippi Department of Archives and History PO Box 571 Jackson, MS 39205-0571 601-359-6850 E-mail <msshpo@mdah.ms.us>

#### **MISSOURI**

Historic Preservation Program State Department of Natural Resources PO Box 176 Jefferson City, MO 65102 314-751-7732

### MONTANA

Montana Historical Society PO Box 201202 Helena, MT 59620-1202 406-444-7715

### **NEBRASKA**

Nebraska State Historical Society PO Box 82554 Lincoln, NE 68501 402-471-4787

### NEVADA

Division of Museums, Library and Arts 100 South Steward Street Carson City, NV 89710 702-687-6360

#### **NEW HAMPSHIRE**

Division of Historic Resources and State Historic Preservation Office PO Box 2043 Concord, NH 03302-2043 603-271-3483

### **NEW JERSEY**

Historic Preservation Office Department of Environmental Protection and Energy CN-404 501 East State Street Trenton, NJ 08625 609-292-2023

### NEW MEXICO

Historic Preservation Division Office of Cultural Affairs Villa Rivera Building, 3rd Floor Santa Fe, NM 87503 505-827-6320

# **NEW YORK**

Parks, Recreation and Historic Preservation Agency Building #l, 20th Floor Albany, NY 12238 518-474-0443

# NORTH CAROLINA

Department of Cultural Resources Division of Archives and History 109 East Jones Street Raleigh, NC 27601-2807 919-733-7305

#### NORTH DAKOTA

State Historical Society of North Dakota Heritage Center Bismarck, ND 58505 701-224-2672

#### COMMONWEALTH OF THE NORTHERN MARIANA ISLANDS

Historic Preservation Office Department of Community and Cultural Affairs Commonwealth of the Northern Mariana Islands Saipan, MP 96950 011-670-664-2120

### OHIO

Ohio Historical Society Historic Preservation Office 567 East Hudson Street Columbus, OH 43211-1030 614-297-2470

### OKLAHOMA

Oklahoma Historical Society State Historic Preservation Office 2100 North Lincoln Boulevard Oklahoma City, OK 73105 405-521-6249

#### OREGON

State Historic Preservation Office Parks and Recreation Department 1115 Commercial Street, NE Salem, OR 97310-1001 503-378-5001

### **REPUBLIC OF PALAU**

Ministry of Social Services Division of Cultural Affairs PO Box 100 Koror, RP 96940 680-488-2489 E-mail <histpres@palaunet.com>

#### PENNSYLVANIA

Pennsylvania Historic and Museum Commission PO Box 1026 Harrisburg, PA 17108-1026 717-787-2891

#### COMMONWEALTH OF PUERTO RICO

Office of Historic Preservation PO Box 82 San Juan, PR 00901 809-721-2676

### **RHODE ISLAND**

Rhode Island Historical Preservation Commission 150 Benefit Street Providence, RI 02903 401-277-2678

#### SOUTH CAROLINA

South Carolina Department of Archives and History PO Box 11669 Columbia, SC 29211 803-734-8592

# SOUTH DAKOTA

South Dakota State Historical Society 900 Governors Drive Pierre, SD 57501-2217 605-773-3458

#### TENNESSEE

Department of Environment and Conservation State Historic Preservation Office 2941 Lebanon Road Nashville, TN 37243-0435 615-532-0105

#### **TEXAS**

Texas Historical Commission PO Box 12276 Austin, TX 78711-2276 512-463-6100 E-mail <thc@nueces.thc.state.tx.us>

#### UTAH

Utah State Historical Society 300 Rio Grande Salt Lake City, UT 84101 801-533-3551 E-mail <cehistry@email.state.ut.us>

#### VERMONT

Vermont Division for Historic Preservation Agency of Development and Community Affairs 135 State Street, 4th Floor Montpelier, VT 05633-1201 802-828-3226

# **VIRGIN ISLANDS**

Department of Planning and Natural Resources Foster Plaza, 396-1 Anna's Retreat St. Thomas, VI 00802 809-776-8605

#### VIRGINIA

Department of Historic Resources 221 Governor Street Richmond, VA 23219 804-786-3143

#### WASHINGTON

Office of Archeology and Historic Preservation PO Box 48343SW Olympia, WA 98504 360-753-5010

#### **WEST VIRGINIA**

Division of Culture and History 1900 Kanawha Boulevard East Charleston, WV 25305-0300 304-753-5010

#### WISCONSIN

State Historical Society of Wisconsin Division of Historic Preservation 816 State Street Madison, WI 53706 608-264-6500

# WYOMING

Wyoming State Historic Preservation Office Department of Commerce 6101 Yellowstone Cheyenne, WY 82002 307-777-7697

# APPENDIX K FEDERAL HIGHWAY ADMINISTRATION LOCAL TECHNICAL ASSISTANCE PROGRAM

LTAP provides for local highway agencies' improved access to highway technology to meet the growing demands placed on local roads, bridges and public transportation. Established in 1981 as the Rural Technical Assistance Program, the Local Technical Assistance Program is a program of the Federal Highway Administration.

LTAP has established a nationwide system of 55 technology transfer centers, some of which are located in universities and others in state highway agencies. Four centers serve American Indian Tribal Governments. Each center develops a mix of technology transfer tools and information to most effectively address the needs of the local highway community.

Funding for the centers is provided through the federal-aid process — which requires support and involvement from state highway agencies — and from federal LTAP funds, state departments of transportation, universities, local agencies, and finances designated by state legislation. The centers serving American Indian Tribal Governments are jointly funded by FHWA and the US Department of the Interior Bureau of Indian Affairs.

The Intermodal Surface Transportation Efficiency Act of 1991 provided authority to expand the program into urban areas as resources become available through 1997. This new authorization also included an emphasis on intergovernmental transportation planning for American Indian tribal governments, through training and technical assistance.

LTAP centers enable local agencies to improve their transportation network by —

- increasing transportation expertise at the state and local levels;
- providing a channel for materials prepared at the national level for local use;
- promoting the effective use of research findings and innovations for improving transportation;
- meeting the needs of transportation personnel in local areas with tailored resource materials.

In the technology transfer network, each center can serve as both a source and a recipient of information. The Technology Transfer Clearinghouse, operated under contract to the FHWA by the American Public Works Association, links the centers with information and technology sources.

# Local Technical Assistance Program Centers

Local Technical Assistance Program T2 Centers also can be accessed on the Internet, <http://patriot.net/~ltap/ltap.html>

T2 Clearinghouse American Public Works Association 1301 Pennsylvania Avenue, NW, Suite 501 Washington, DC 20004 202-347-7267 Facsimile 202-737-9153 E-mail <lpogue@mail.pubworks.org>

# ALABAMA

Alabama Technology Transfer Center Department of Civil Engineering Harbert Engineering Center Auburn University Auburn, AL 36849-5337 334-844-4320 Facsimile 334-844-6290 E-mail <tsqjrmc@eng.auburn.edu>

# ALASKA

Alaska Transportation Technology Transfer Program 2301 Peger Road Fairbanks, AK 99709-5399 907-451-5320 Facsimile 907-451-2313

### ARIZONA

Arizona Technology Transfer Center Arizona DOT 1130 North 22nd Avenue, 069R Phoenix, AZ 85009 602-256-9431 Facsimile 602-256-7648

# ARKANSAS

Arkansas LTAP PO Box 2261 Little Rock, AR 72203 501-569-2249 Facsimile 501-569-2476 E-mail <tmhp032@ahd.state.ar.us>

### CALIFORNIA

California LTAP University of California Institute of Transportation Studies Richmond Field Station Building 452 Richmond, CA 94804-4603 510-231-9590 Facsimile 510-231-9591

# COLORADO

Colorado Transportation Information Program, Colorado State University Engineering Research Center, Room 325 Ft. Collins, CO 80523 800-262-7623 E-mail <rszrot@engr.colostate.edu> Web <http://www.ColoState.EDU/Orgs/COPTIP>

# CONNECTICUT

Technology Transfer Center University of Connecticut 179 Middle Turnpike U-202 Storrs, CT 06269-5202 860-486-5400 Facsimile 860-486-2399 E-mail <triadm05@uconnvm.uconn.edu> Web <http://www.eng2.uconn.edu/ti/cti/tt/tt.htm>

# DELAWARE

Delaware DOT T2 Center PO Box 778 Dover, DE 19903 302-739-3167 Facsimile 302-739-2251

# FLORIDA

Florida Technology Transfer Center PO Box 116585 University of Florida Gainesville, FL 32611-6585 352-392-0378 Facsimile 352-392-3224 E-mail <t2@ce.ufl.edu>

### GEORGIA

Georgia DOT Technology Transfer Center No. 2 Capitol Square, Room 301 Atlanta, GA 30334-1002 404-656-5364 Facsimile 404-656-3507 Web <http://www.dot.state.ga.us/homeoffs/training/ techtran/index.html>

# HAWAII

Hawaii Local Technical Assistance Program 2800 Woodlawn Drive, Suite 280 Honolulu, HI 96822 808-539-3837 800-220-5827 Facsimile 808-539-3842 Web <http://hltap.mic.hawaii.edu>

# **IDAHO**

Idaho Technology Transfer Center PO Box 7129 Boise, ID 83707-1129 208-885-4335 Facsimile 208-885-2877

# ILLINOIS

Illinois Technology Transfer Center Illinois Department of Transportation 2300 S. Dirksen Parkway, Room 205 Springfield, IL 62764 217-785-5048 Facsimile 217-785-7296

# INDIANA

Highway Extension and Research Project for Indiana Counties and Cities Purdue University 1284 Civil Engineering Building West Lafayette, IN 47907-1284 765-494-2164 Facsimile 765-496-1176 E-mail <Imccorma@ecn.purdue.edu> Web <http:/ce.ecn.purdue.edu/CE/ Outreach/HERPICC/herpicchome.html>

# IOWA

Center for Transportation Research and Education Iowa State University ISU Research Park, 2625 North Loop, Suite 2100 Ames, IA 50010-8615 515-294-8103 Facsimile 515-294-0467 Web <a href="http://www.ctre.iastate.edu">http://www.ctre.iastate.edu</a>

### KANSAS

Kansas University Transportation Center 2011 Learned Hall

Lawrence, KS 66045 913-864-5658 Facsimile 913-864-3199

# **KENTUCKY**

Kentucky Transportation Center 140 Civil Engineering Kentucky Transportation Center Building University of Kentucky Lexington, KY 40506-0281 606-257-4513 Facsimile 606-257-1815 Web <http://www.engr.uky.edu/KTC/ktctmb.html>

# LOUISIANA

Louisiana LTAP T2 Center 4101 Gourrier Avenue Baton Rouge, LA 70808-4443 504-767-9117 Facsimile 504-767-9156 E-mail <lattap@ltrc.lsu.edu> Web <http://www.ltrc.lsu.edu>

# MAINE

Maine Local Roads Center Community Services Division Maine DOT 16 Station House Station Augusta, ME 04333-0016 207-287-2152 Facsimile 207-287-3292 Web <a href="http://www.state.me.us/mdot/planning/local\_rd/local\_rd.htm">http://www.state.me.us/mdot/planning/local\_rd.htm</a>

# MARYLAND

Maryland Transportation Technology Transfer Center Department of Civil Engineering University of Maryland College Park, MD 20742 301-405-2009 Facsimile 301-405-2585 E-mail <ttc@eng.umd.edu>

# MASSACHUSETTS

Baystate Roads Program 2140 Marston Hall University of Massachusetts Amherst, MA 01003 413-545-2604 Facsimile 413-545-6471 Web <http://www.baystate.ecs.umass.edu>

# MICHIGAN

Local Technical Assistance Program Michigan Technological University 1400 Townsend Drive Houghton, MI 49931-1295 906-487-2102 Facsimile 906-487-3409

# MINNESOTA

Minnesota Technology Transfer Program Center for Transportation Studies 511 Washington Avenue, SE, Suite 200 Minneapolis, MN 55455 612-625-5829 or 612-625-8049 Facsimile 612-625-6381

# MISSISSIPPI

Mississippi Center for Technology Transfer Jackson State University PO Box 18125 Jackson, MS 39217-0625 601-968-2339 Facsimile 601-973-3703 E-mail <tsquare@ccaix.jsums.edu>

# MISSOURI

Transportation T2 Center – Missouri Missouri Highway and Transportation Department PO Box 270 Jefferson City, MO 65102 573-751-0852 Facsimile 573-526-4337

# MONTANA

Local Technical Assistance Center Montana State University 202 Cobleigh Hall Bozeman, MT 59717-0390 800-541-6671 Facsimile 406-994-6105 E-mail <zce7002@msu.oscs.montana.edu>

# NEBRASKA

Nebraska Technology Transfer Center University of Nebraska-Lincoln PO Box 880560 Lincoln, NE 68588-0560 402-472-5748 Facsimile 402-472-0685

### NEVADA

Nevada Transportation T2 Center College of Engineering/257 University of Nevada, Reno Reno, NV 89557 702-784-1433 Facsimile 702-784-1429

# **NEW HAMPSHIRE**

Technology Transfer Center 33 College Road-Kingsbury Hall University of New Hampshire Durham, NH 03824-3591 603-862-2826 Facsimile 603-862-2364

#### **NEW JERSEY**

Rutgers R2T2 Center Center for Government Service PO Box 5079 New Brunswick, NJ 08903-5079 908-932-3640 ext. 627 Facsimile 908-932-3586

### **NEW MEXICO**

New Mexico LTAP Center PO Box 1149 Santa Fe, NM 87504-1149 505-827-5150 Facsimile 505-827-5167

### **NEW YORK**

Cornell Local Roads Program 416 Riley-Robb Hall Ithaca, NY 14853-5701 607-255-8033 Facsimile 607-255-4080 E-mail <Center: clrp@cornell.edu> Web <http://www.cals.cornell.edu/dept/aben/ localroads/home.htm>

# NORTH CAROLINA

Institute for Transportation Research and Education North Carolina State University Campus Box 8601 Raleigh, NC 27695 919-575-8033 Facsimile 919-575-8898 Web <http://www.itre.ncsu.edu/itre/t2/t2.html>

# NORTH DAKOTA

North Dakota Transportation Technology Transfer Center Civil/Industrial Engineering Building, Room 201H North Dakota State University Fargo, ND 58105 800-726-4143 Facsimile 701-231-7195 Web <http://www.hardhat.cme.ndsu.nodak.edu/t2center/ t2.htm>

# OHIO

Ohio Transportation Technology Transfer Center The Ohio State University Department of Civil Engineering 470 Hitchcock Hall, 2070 Neil Avenue Columbus, OH 43210-1275 614-292-2871 Facsimile 614-292-6185 Web <http://www-ltap.eng.ohio-state.edu.ltap>

# **OKLAHOMA**

Center for Local Government Technology 308 CITD Oklahoma State University Stillwater, OK 74078 405-744-6049 Facsimile 405-744-7268

# OREGON

Oregon Technology Transfer Center 2950 State Street, Room 103 Salem, OR 97310-0784 503-986-2854 Facsimile 503-986-2844

### PENNSYLVANIA

LTAP-The Pennsylvania Local Road Program Penn State Eastgate Center 1010 North 7th Street, Suite 304 Harrisburg, PA 17102-1410 717-772-1972 Facsimile 717-772-1998 E-mail <ltap@psu.edu>

# **PUERTO RICO**

Puerto Rico Transportation Technology Transfer Center Civil Engineering Department University of Puerto Rico at Mayaguez Mayaguez, PR 00681-5000 787-834-6385 Facsimile 787-265-5695 E-mail <t2prl@rmce02.upr.clu.edu>

# **RHODE ISLAND**

Rhode Island Technology Transfer Center Department of Administration Division of Planning One Capitol Hill Providence, RI 02908-5872 401-277-1235 Facsimile 401-277-2083

# SOUTH CAROLINA

Transportation Technology Transfer Service Department of Civil Engineering Clemson University Clemson, SC 29634-0911 803-656-3000 Facsimile 864-656-2670 E-mail <t3s@eng.clemson.edu>

# SOUTH DAKOTA

South Dakota Transportation Technology Transfer Service PO Box 2220, HH 302 – SDSU Brookings, SD 57007 800-422-0129 Facsimile 605-688-5880 E-mail <grants@msmail.sdstate.edu>

### TENNESSEE

Tennessee Transportation Assistance Program 600 Henley Street, Suite 309 Knoxville, TN 37996-4133 615-974-5255 Facsimile 615-974-3889 E-mail <ttap@utk.edu> Web <http://www.ra.utk.edu.tc>

# TEXAS

Texas Local Technical Assistance Program Texas Engineering Extension Service TAMU System College Station, TX 77843-8000 409-845-4457 Facsimile 409-862-4768 Web <a href="http://www.tamu.edu/texasltap">http://www.tamu.edu/texasltap</a>

# UTAH

Utah Transportation Technology Transfer Center Department of Civil and Environmental Engineering Utah State University Logan, UT 84322-4111 801-797-2289 or 800-822-8878 Facsimile 801-797-1185 E-mail <utaht2@lab.cee.usu.edu>

# VERMONT

Vermont Local Roads Saint Michael's College Colchester, VT 05439 802-654-2652 Facsimile 802-654-2555

# VIRGINIA

Virginia Transportation Technology Transfer Center 530 Edgemont Road Charlottesville, VA 22903 804-293-1966 Facsimile 804-293-1429 E-mail <cdg3k@virginia.edu> Web <http://www.pratt.vrtc.virginia.edu>

# WASHINGTON

Northwest T2 Center WSDOT-TransAid PO Box 47390 Olympia, WA 98504-7390 360-705-7390 Facsimile 360-705-6822 Web <http://www.wsdot.wa.gov/TA/T2/T2HP.htm>

### WEST VIRGINIA

West Virginia Transportation Technology Transfer Center Department of Civil Engineering West Virginia University PO Box 6103 Morgantown, WV 26506 304-293-3031,ext. 629 Facsimile 304-293-7109 Web <http://www.cemr.wvu.edu/~wwwtrans/ TTC.html>

# WISCONSIN

Transportation Information Center University of Wisconsin-Madison 432 North Lake Street, RM 725A Madison, WI 53706 608-262-0422 Facsimile 608-263-3160

#### WYOMING

Wyoming Technology Transfer Center Department of Civil Engineering PO Box 3295 Laramie, WY 82071-3295 800-231-2815 Facsimile 307-766-6784

### AMERICAN INDIAN TRIBAL GOVERNMENT T2 CENTERS

#### Technology Transfer and Training Program for

Native Americans Colorado State University Engineering Research Center Ft. Collins, CO 80523 800-262-7623 Facsimile 970-491-8334 Web <http://www.colostate.edu/Orgs/CTP/T3/ index.html>

#### Native American Technology Transfer Center

Montana State University 202 Cobleigh Hall Bozeman, MT 59717-0390 800-541-6671 Facsimile 406-994-6105 E-mail <zce7002@msu.oscs.montana.edu>

#### **Tribal Technical Assistance Center**

402 Sharon Avenue Michigan Technological University Houghton, MI 49931-1295 888-230-0688 Facsimile 906-487-1824 Web <http://www.civil.mtu.edu/organizations/ltap/ TTAPindex.html>

#### Northwest Tribal LTAP Center

Eastern Washington University Department of Urban and Regional Planning 668 North Riverpoint Boulevard Suite A, Room 234 Spokane, WA 99202-1660 800-583-3187 Facsimile 509-358-2267

#### **Tribal Government LTAP Center**

Center for Local Government Technology 308 CITD Oklahoma State University Stillwater, OK 74078 405-744-6049 Facsimile 405-744-7268

#### **Tribal LTAP Center**

D-Q University PO Box 409 Davis, CA 95617-0409 916-758-0470 Facsimile 916-758-4891

# APPENDIX L REBUILD AMERICA COALITION

The Rebuild America Coalition is a broad cooperative of public and private organizations committed to the infrastructure challenge. Housed in APWA's Washington, DC office, the Coalition includes mayors, county commissioners, city council members, and other public leaders responsible for maintaining, inspecting, and planning the building and rebuilding of our public facilities. They are supported by the engineers, builders, financiers, contractors, and architects whose careers are dedicated to the highest standards of quality, safety and cost effectiveness. The Coalition believes that our nation's economic competitiveness and wellbeing are directly linked to the condition and quality of our country's infrastructure facilities and services.

Members of the Coalition volunteer their time to help focus public attention on the serious problems associated with America's deteriorating infrastructure. For instance, leaking pipes cause some major cities to lose as much as 30 percent of their fresh water supply each day; many communities cannot expand or accept more industrial or residential development because their wastewater treatment facilities are operating at or near full capacity. Approximately a third of our nation's bridges are deficient. Millions of Americans are not served by modern sewage treatment facilities, and over one million miles of highway will need to be resurfaced by the year 2000.

According to a report released by the House Committee on Public Works and Transportation (renamed the House Committee on Transportation and Infrastructure), federal spending on infrastructure has been declining. In 1965, infrastructure spending was 6.3 percent of the federal budget; by 1992, however, only 3.0 percent of total federal outlays were devoted to infrastructure. This under-investment in the nation's infrastructure threatens our national economy and living standards.

The House report concludes that the nation's leaders must develop a strategy to focus on meeting our vast transportation and environmental infrastructure needs, establishing priorities with the greatest economic and environmental returns and developing sources of funding.

It further suggests that the infrastructure issue must be elevated to the high level of public visibility that it deserves. This would help develop a broad national consensus on infrastructure issues, which could then become a springboard for the nation to move forward on a sweeping, comprehensive infrastructure investment program.

Rebuild America Coalition's steering committee includes —

- American Consulting Engineers Council
- American Institute of Architects
- American Public Works Association
- American Road and Transportation Builders Association
- American Society of Civil Engineers
- Associated General Contractors of America
- Council of Infrastructure Financing Authorities
- National Association of Counties
- National Association of Home Builders
- National Association of Securities Professionals
- National Association of State Treasurers/Council of State Governments
- National League of Cities
- Public Securities Association
- US Conference of Mayors

#### ACTION PLAN TO REBUILD AMERICA

The Coalition believes that infrastructure must be a top national priority. Convinced of the need to reinvest in America's infrastructure, the Coalition's mission is to —

- create public awareness of the need to increase infrastructure investment and infrastructure's role in building the nation's economy and improving the productivity of the nation;
- promote the economic benefits of job creation through public and private infrastructure investment;
- encourage government action at the federal, state and local levels to increase infrastructure funding;
- encourage innovations in technology, financing and public/private partnerships;
- encourage formation of similar state and/or local coalitions;
- and foster joint cooperation among the public and private sector organizations in support of resolving the nation's public works crisis.

# **GOALS FOR PUBLIC POLICY**

To accomplish its mission, the Coalition has identified the following legislative goals —

- There should be no further funding reductions in existing federal programs that address infrastructure needs.
- The existing federal infrastructure trust funds must be continued, adequately funded, and fully expended for their intended purposes.
- Federal restrictions on the use of tax-exempt financing for infrastructure purposes should be eliminated.
- A federal capital infrastructure program should be created to provide assistance to states and localities in meeting infrastructure needs.
- A federal long-term, multi-year capital budget should be established.

## HOW YOU CAN HELP

The Coalition's approach is a grassroots campaign involving those who are on the front line of the infrastructure challenge. Local and state-level leaders help policymakers and the public understand the extent of the problem and how it can be solved. A public information kit that includes a publicity handbook, a guide to lobbying and state-by-state statistics, encourages localities and states to develop grassroots coalitions similar to the one at the national level.

For more information, contact ----

Rebuild America Coalition 1301 Pennsylvania Avenue, NW, Suite 501 Washington, DC 20004 202-347-7254 Web <a href="http://www.rebuildamerica.org/contact">http://www.rebuildamerica.org/contact</a>

# APPENDIX M ONE-CALL SYSTEM INTERNATIONAL

The One-Call System International is a Special Interest Group of the American Public Works Association. This group is composed of hundreds of professional public works, construction and utility people working together to safeguard citizens and construction personnel who work around utilities as well as safeguard the underground infrastructure of pipes, mains and lines which bring utilities to your communities. This gives it a greater degree of self control to react quickly and decisively to meet the industry's needs and to function effectively.

The purpose of OCSI is to ----

- promote damage prevention and safety;
- provide information to members and One-Call systems; and
- promote public safety through education.

One of One-Call's major projects each year is the Spring One-Call System Symposium where utility people, vendors and others critically interested in underground utilities gather to more effectively provide for safety and damage control. One-Call can also be consulted before excavations are started on historic rehabilitation projects to locate underground utilities.

In the future it is hoped that information distributed by One-Call operators in individual states can connect callers to the State Historic Preservation Office or other preservation organizations.

# ONE CALL STATE PHONE NUMBERS

#### ALABAMA

Alabama Line Location Center 800-292-8525

# ALASKA

Locate Call Center Of Alaska 800-478-3121

#### ARIZONA

Arizona Blue Stake, Inc. 800-782-5348

# ARKANSAS

Arkansas One Call System, Inc. 800-482-8998

#### CALIFORNIA

USA North 800-227-2600 USA South 800-227-2600

# COLORADO

Utility Notification Center Of CO 800-922-1987

#### CONNECTICUT

Call Before You Dig 800-922-4455

## DELAWARE

Miss Utility Of Delmarva 800-282-8555

# FLORIDA

Call Sunshine 800-432-4770

# GEORGIA

Utilities Protection Center, Inc. 800-282-7411

#### **IDAHO**

Utilities Underground Location 800-424-5555

#### **ILLINOIS**

Julie, Inc. 800-892-0123

#### **INDIANA**

Underground Plant Protection Services 800-382-5544

#### IOWA

Underground Plant Location Service 800-292-8989

# KANSAS

Kansas One Call Center 800-344-7233

#### **KENTUCKY**

Kentucky Underground Protection 800-752-6007

# LOUISIANA

Louisiana One Call System, Inc. 800-272-3020

#### MAINE

Dig Safe 888-344-7233

#### MARYLAND

Miss Utility 800-257-7777

#### MASSACHUSETTS

Dig Safe 888-344-7233

#### MICHIGAN

Miss Dig System 800-482-7171

#### MINNESOTA

Gopher State One Call 800-252-1166

#### MISSISSIPPI

Mississippi Dig System, Inc. 800-482-7171

#### **MISSOURI**

Missouri One Call System, Inc. 800-344-7438

#### MONTANA

Utilities Underground Location Center 800-424-5555

#### NEBRASKA

Diggers Hotline 800-331-5666

#### NEVADA

Underground Service Alert North 800-227-2600

#### **NEW HAMPSHIRE**

Dig Safe — New Hampshire 800-225-4977

#### **NEW JERSEY**

Garden State Underground Plant 800-272-1000

#### **NEW MEXICO**

New Mexico One Call System 800-321-2737

#### **NEW YORK**

New York City — Long Island One Call 800-272-4480

#### NORTH CAROLINA

North Carolina One Call Center 800-632-4949

#### **NORTH DAKOTA**

Utilities Underground Location Center 800-795-0555

#### OHIO

Ohio Utilities Protection Service 800-362-2764

#### **OKLAHOMA**

Call Okie 800-522-6543

#### OREGON

Utilities Underground Notification Center 800-332-2344

#### PENNSYLVANIA

Pennsylvania One Call System 800-242-1776

#### **RHODE ISLAND**

Dig Safe — Rhode Island 800-344-7233

# SOUTH CAROLINA

Palmetto Utility Protection Service 888-721-7877

#### TENNESSEE

Tennessee One Call System 800-351-1111

# TEXAS

Texas One Call System 800-245-4545

# UTAH

Blue Stakes Location Center 800-662-4111

#### VERMONT

Dig Safe — Vermont 888-344-7233

## VIRGINIA

Miss Utility Of Virginia 800-557-7001

#### WASHINGTON

Utilities Underground Notification 800-424-5555

#### WEST VIRGINIA

Miss Utility Of West Virginia 800-245-4848

#### WISCONSIN

Diggers Hotline 800-242-8511

# WYOMING

Wyoming One Call 800-348-1030

#### WASHINGTON, DC

Miss Utility 800-257-7777

# APPENDIX N SEARCHING THE INTERNET — DIRECTORIES AND INDEXES

The following are a few of the better-known Internet search tools, listed by category.

# DIRECTORIES

Directories are extensive lists of internet resources arranged by human editors into subject categories. All are selective, some include reviews, and attempt to point the user to what the editors view as the best resources on the internet. For materials on specific topics, choose from —

## A2Z

<http://a2z.lycos.com/> This directory includes the most popular sites on the web.

#### LookSmart

<http://www.looksmart.com/> This is a selective directory of over 146,000 useful sites with an attractive graphical interface.

## Magellan

<http://www.mckinley.com/> This database consists of over 1.5 million Internet sites. Many are reviewed and rated for depth and ease of use.

# The World Wide Web Virtual Library

This is the "official" directory of Web resources. It includes directories for many subject areas, which are maintained by interested volunteers. By subject — <http://www.vlib.stanford.edu/overview.html>

By geographical arrangement — <a href="http://www.vlib.stanford.edu/servers.html">http://www.vlib.stanford.edu/servers.html</a>

# Yahoo

<http://www.yahoo.com/>

This is the most comprehensive hierarchically arranged directory to Web resources. It is an excellent starting point when looking for information on broad topics, and the categories help to narrow down your search.

### INDEXES

The following indexes are generated automatically by computer programs called "robots" or "webcrawlers." Each claims to be the largest and best index of Internet resources but this is difficult to determine. Full-text searching gives the user the ability to find almost anything on any topic, but false hits are possible and must be verified by the user.

# Alta Vista

<http://altavista.digital.com/>

This is probably the largest and fastest Internet index. This should be the first choice of index searches. It offers full Boolean (and, or, but not, near, etc.) searching and user control over search terms.

## Excite

<http://excite.com/>

Excite is a comprehensive index of over 50 million Web pages, with reviews of over 61,000 sites. Excite uses a sophisticated searching technique known as intelligent concept extraction, which is a very sophisticated thesaurus of words.

## HotBot

<http://www.hotbot.com/>

HotBot is a fast and powerful index based on the Inktomi search engine. It has a variety of enhanced search features in "Expert" mode and offers the ability to customize and save search options.

# InfoSeek

<http://www.infoseek.com/> InfoSeek has simple keyword searching and is comprehensive and fast. It offers the option to broaden a search through additional links in the form of "Related Topics" and "Company Profiles."

#### Lycos

<http://www.lycos.com/>

Lycos is different from other indexes by its range of added directory features, such as: a2z Directory of Sites by Subject <a href="http://a2z.lycos.com/">http://a2z.lycos.com/</a>, a listing of "one-tenth of web sites most linked to by users."

# **City Guide**

<http://cityguide.lycos.com/>

# **People Find**

<http://www.lycos.com/pplfindr.html>, a separate index of pictures and sounds.

#### Pointerview

<http://www.pointcom.com/> features daily and weekly Website reviews.

# WebCrawler

<http://webcrawler.com/> WebCrawler is a small and selective database. It supports both full Boolean searching, including proximity connectors, and natural language searching. When using the "Show summaries" feature, it offers a "similar pages" option.

## **MULTIPLE-INDEX SEARCHES**

# Cyber411

<http://www.cyber411.com> Cyber411 currently searches 15 different Internet search engines.

# **Inference Find**

<http://www.inference.com/ifind/> Inference Find searches AltaVista, Excite, InfoSeek, Lycos, WebCrawler and Yahoo. It then clusters the results into groupings based on key words and Web sites. This is the favorite search engine of many Internet researchers.

# **Internet Sleuth**

<http://www.isleuth.com>

The Internet Sleuth is an index of indexes. It has descriptions of, and links to, over 1,500 separate databases on the Internet, which range from comprehensive ones like Yahoo to texts of individual literary works.

# MetaCrawler

<http://metacrawler.cs.washington.edu> MetaCrawler searches seven major indexes. It also performs site verification by checking each link to confirm that it is accessible.

#### **ProFusion**

<http://www.designlab.ukans.edu/profusion/> ProFusion offers six of the major Web indexes. It allows the user to select which of the six indexes he/she wants to search. It has an option to check for broken links.

# SavvySearch

<http://savvy.cs.colostate.edu:2000/> SavvySearch currently searches over 19 different Internet indexes, including specialized databases such as — The Internet Movie Database <http://www.us.imdb.com/> and Virtual Software Library <http://www.shareware.com/> as well as the general indexes from AltaVista to Yahoo. It also give the researcher the option of displaying the results of each database individually or integrating them into a single display.

#### Search.Com

<http://www.search.com/>

Search.Com is an "index of indexes." It provides links to over 250 separate Internet databases, from general indexes such as AltaVista and Yahoo to specialized databases like the DealerNet New Car Directory <a href="http://www.dealernet.com/">http://www.dealernet.com/</a>>.

# SEARCH FOR PEOPLE

The following tools are means for searching for addresses, telephone numbers and e-mail addresses. These tools are not complete as many institutions do not make their directories public, and many people have unlisted phone numbers.

# **E-Mail Directories**

#### Four11

<http://www.four11.com/>

#### **Internet Address Finder**

<http://www.iaf.net/>

This also includes an e-mail "reverse look-up option" which is useful when you have an e-mail address and want to know who owns it.

# **InterNIC Directory Services**

<http://www.internic.net/ds/dspgwp.html>

# **NetPages**

<http://www.aldea.com/wwwindex.html>

# **OKRAnet.citizen Directory Service**

<http://okra.ucr.edu/okra/>

# PeopleFind

<http://www.lycos.com/pplfind.html> from Lycos <http://www.lycos.com/>, and includes road maps and directories of nearby businesses.

#### **Telephone and Postal Directories**

Database America People Finder <http://www.databaseamerica.com/ html/gpfind.htm> includes a telephone "reverse lookup" feature where you can enter a phone number and find out who it belongs to.

# **The Global Yellow Pages**

<http://www.globalyp.com/world.htm>

# **Kapitol - International Directories**

<http://www.infobel.be/infobel/infobelworld.html>

# Switchboard

<http://www.switchboard.com/>

## **Telephone Directories on the Web**

<http://www.contractjobs.com/tel/>

# WhoWhere?

<http://www.whowhere.com/>

# **World Phonebooks**

<http://www.geocities.com/CapeCanaveral/2673/ phone.html>

# SEARCH AND DISCUSSION LISTS

Discussion lists offer groups of people the ability to exchange information on topics of shared interest. See "Discussion Lists: Mail List Manager Commands" <a href="http://lawlib.slu.edu/training/mailser.htm">http://lawlib.slu.edu/training/ mailser.htm</a>> for information on using discussion lists.

#### Liszt

<http://www.liszt.com/> A directory of over 24,000 discussion lists.

#### Vivian Neou's selective List of Lists

<http://catalog.com/vivian/ interest-group-search.html> This is the descendant of the original "List of Lists" maintained by the InterNIC (Internet Network Information Center).

# Law Lists

<http://www.lib.uchicago.edu/~llou/lawlists/ info.html>

This is Lyonette Louis-Jacques's compilation of lawrelated discussion lists.

# **Publicly Accessible Mailing Lists**

<http://www.NeoSoft.com/internet/paml/> This is another selective list.

# Tile.Net

<http://www.tile.net/> This is a smaller index of discussion lists.

# SEARCH FOR IMAGES

A number of search engines for locating images on the Internet have been introduced recently. Most of these images are copyrighted, so in most cases permission must be obtained before downloading and using any images.

# LycosMedia

<http://www.lycos.com/lycosmedia.html>

#### WebSeer

<http://webseer.cs.uchicago.edu/>

# Yahoo! Image Surfer

<http://isurf.yahoo.com/>

Used with permission from James Milles, Head of Computer Services and Associate Professor of Legal Research, Saint Louis University Law Library. E mail <millesjg@slu.edu> Web <http://lawlib.slu.edu/misc/directory>

### **APPENDIX O**

NPS Form 10-900 (Oct. 1990) OMB No. 10024-0018

United States Department of the Interior National Park Service

#### National Register of Historic Places Registration Form

This form is for use in nominating or requesting determinations for individual properties and districts. See instructions in *How to Complete the National Register of Historic Places Registration Form* (National Register Bulletin 16A). Complete each item by marking "x" in the appropriate box or by entering the information requested. If an item does not apply to the property being documented, enter "N/A" for "not applicable." For functions, architectural classification, materials, and areas of significance, enter only categories and subcategories from the instructions. Place additional entries and narrative items on continuation sheets (NPS Form 10-900a). Use a typewriter, word processor, or computer, to complete all items.

1. Name of Property					
historic name			-		
other names/site number				5	
2. Location				4,	
street & number				_  _ not for publication	
city or town				vicinity	
state	code	county	code	zip code	
3. State/Federal Agency Ce	ertification				
request for determination Historic Places and meets th	of eligibility meets t e procedural and pro the National Registe	the documentation standards rofessional requirements set f er criteria. I recommend that	amended, I hereby certify that for registering properties in the forth in 36 CFR Part 60. In my this property be considered s hal comments.)	he National Register of	1. A. 1. 1.
Signature of certifying official	/Title	Date			2 2 2
State of Federal agency and	bureau				
In my opinion, the property [ comments.)	] meets ] does n	ot meet the National Registe	r criteria. ( See continuation	n sheet for additional	
Signature of certifying official	/Title	Date			
State or Federal agency and	bureau				
4. National Park Service Ce	ertification				
I hereby certify that the property is:		Signature of th	e Keeper	Date of Actio	on
entered in the National Reg					
determined eligible for the National Register	neet.				
determined not eligible for t National Register.	he				
removed from the National Register.					
other, (explain:)					

Name of Property		County and State	
5. Classification			
Ownership of Property (Check as many boxes as apply)	Category of Property (Check only one box)	Number of Resources within Property (Do not include previously listed resources in the c	ount.)
<ul> <li>private</li> <li>public-local</li> <li>public-State</li> <li>public-Federal</li> </ul>	<ul> <li>building(s)</li> <li>district</li> <li>site</li> <li>structure</li> <li>object</li> </ul>	Contributing Noncontributing	sites structures objects
Name of related multiple pr (Enter ''N/A'' if property is not part of	roperty listing of a multiple property listing.)	Number of contributing resources prev in the National Register	
6. Function or Use		· · · · · · · · · · · · · · · · · · ·	
Historic Functions (Enter categories from instructions)		Current Functions (Enter categories from instructions)	
7. Description			Ŷ.
Architectural Classification (Enter categories from instructions)		Materials (Enter categories from instructions) foundation walls	1
		roof	
		other	

Narrative Description (Describe the historic and current condition of the property on one or more continuation sheets.)

Name	of Property	County and State	
8. S	tatement of Significance		
(Mark	icable National Register Criteria "x" in one or more boxes for the criteria qualifying the property tional Register listing.)	Areas of Significance (Enter categories from instructions)	
□ <b>A</b>	Property is associated with events that have made a significant contribution to the broad patterns of our history.		
□в	Property is associated with the lives of persons significant in our past.		
□ c	Property embodies the distinctive characteristics of a type, period, or method of construction or represents the work of a master, or possesses high artistic values, or represents a significant and distinguishable entity whose components lack	Period of Significance	
🗆 D	individual distinction. Property has yielded, or is likely to yield, information important in prehistory or history.		
	ria Considerations "x" in all the boxes that apply.)	Significant Dates	
Prope	erty is:		
□ A	owned by a religious institution or used for religious purposes.		
□в	removed from its original location.	Significant Person (Complete if Criterion B is marked above)	- <u>1</u>
🗆 C	a birthplace or grave.		· 
D	a cemetery.	Cultural Affiliation	
🗆 E	a reconstructed building, object, or structure.		
🗆 F	a commemorative property.		· .
G	less than 50 years of age or achieved significance within the past 50 years.	Architect/Builder	
Narra (Expla	ative Statement of Significance in the significance of the property on one or more continuation sheets	)	
9. M	ajor Bibliographical References		
	ography		
	he books, articles, and other sources used in preparing this form on o ious documentation on file (NPS):	Primary location of additional data:	
	preliminary determination of individual listing (36 CFR 67) has been requested previously listed in the National Register previously determined eligible by the National Register designated a National Historic Landmark recorded by Historic American Buildings Survey # recorded by Historic American Engineering	<ul> <li>State Historic Preservation Office</li> <li>Other State agency</li> <li>Federal agency</li> <li>Local government</li> <li>University</li> <li>Other</li> <li>Name of repository:</li> </ul>	
	Record #		

Zone       Easting       Northing         2            Verbal Boundary Description       4         (Describe the boundaries of the property on a continuation sheet.)	3            Zone     Easting     Northing       4           Cone     Easting     Northing       4          Cone     See continuation sheet
UTM References         (Place additional UTM references on a continuation sheet.)         1	Zone         Easting         Northing           1         1         1         1         1
(Place additional UTM references on a continuation sheet.)       3         1       1       1       3         Zone       Easting       Northing       4         Verbal Boundary Description       4         (Describe the boundaries of the property on a continuation sheet.)       3	Zone         Easting         Northing           1         1         1         1         1
Zone       Easting       Northing         2            Verbal Boundary Description       4         (Describe the boundaries of the property on a continuation sheet.)	Zone         Easting         Northing           1         1         1         1         1
(Describe the boundaries of the property on a continuation sheet.)	
Boundary Justification (Explain why the boundaries were selected on a continuation sheet.)	
11. Form Prepared By	
name/title	· · · · · · · · · · · · · · · · · · ·
organization	date
street & number tele	ephone
city or town state	zip code
Additional Documentation	
Submit the following items with the completed form:	
Continuation Sheets	Υ.
Maps	
A USGS map (7.5 or 15 minute series) indicating the property's loc	cation.
A Sketch map for historic districts and properties having large acre	eage or numerous resources.
Photographs	
Representative black and white photographs of the property.	
Additional items (Check with the SHPO or FPO for any additional items)	
Property Owner (Complete this item at the request of SHPO or FPO.)	
name	
street & number tele	ephone
city or town state	zip code
Paperwork Reduction Act Statement: This information is being collected for applications to properties for listing or determine eligibility for listing, to list properties, and to amend existing the statement of	to the National Register of Historic Places to nominate

Estimated Burden Statement: Public reporting burden for this form is estimated to average 18.1 hours per response including time for reviewing instructions, gathering and maintaining data, and completing and reviewing the form. Direct comments regarding this burden estimate or any aspect of this form to the Chief, Administrative Services Division, National Park Service, P.O. Box 37127, Washington, DC 20013-7127; and the Office of Management and Budget, Paperwork Reductions Projects (1024-0018), Washington, DC 20503.

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OMB Approval No. 1024-0018

NPS Form 10-900-a (9-96)

United States Department of the Interior National Park Service

# National Register of Historic Places Continuation Sheet

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#### APPENDIX P

NPS Form 10-900-b (June 1991) OMB No. 1024-0018

United States Department of the Interior National Park Service

#### National Register of Historic Places Multiple Property Documentation Form

This form is used for documenting multiple property groups relating to one or several historic contexts. See instructions in *How to Complete the Multiple Property Documentation Form* (National Register Bulletin 16B). Complete each item by entering the requested information. For additional space, use continuation sheets (Form 10-900-a). Use a typewriter, word processor, or computer to complete all items.

\_\_\_\_ New Submission \_\_\_\_ Amended Submission

A. Name of Multiple Property Listing

#### **B. Associated Historic Contexts**

(Name each associated historic context, identifying theme, geographical area, and chronological period for each.)

C. Form Prepared by		
name/title	•	ų
organization		1 I
street & number	telephone	S.
city or town state	zip code	
D. Certification		۰ ۲
meets the National Register documentation standards and set National Register criteria. This submission meets the procedure	ervation Act of 1966, as amended, I hereby certify that this documentation ats forth requirements for the listing of related properties consistent with th ural and professional requirements set forth in 36 CFR Part 60 and the peology and Historic Preservation. (	e
Signature and title of certifying official	Date	
State or Federal agency and bureau		
I hereby certify that this multiple property documentation form properties for listing in the National Register.	n has been approved by the National Register as a basis for evaluating re	lated
Signature of the Keeper	Date of Action	

#### Table of Contents for Written Narrative

Provide the following information on continuation sheets. Cite the letter and the title before each section of the narrative. Assign page numbers according to the instructions for continuation sheets in *How to Complete the Multiple Property Documentation Form* (National Register Bulletin 16B). Fill in page numbers for each section in the space below.

Page Numbers

# E. Statement of Historic Contexts

(If more than one historic context is documented, present them in sequential order.)

#### F. Associated Property Types

(Provide description, significance, and registration requirements.)

#### G. Geographical Data

#### H. Summary of Identification and Evaluation Methods (Discuss the methods used in developing the multiple property listing.)

#### I. Major Bibliographical References

(List major written works and primary location of additional documentation: State Historic Preservation Office, other State agency, Federal agency, local government, university, or other, specifying repository.)

Paperwork Reduction Act Statement: This information is being collected for applications to the National Register of Historic Places to nominate properties for listing or determine eligibility for listing, to list properties, and to amend existing listings. Response to this request is required to obtain a benefit in accordance with the National Historic Preservation Act, as amended (16 U.S.C. 470 et seq.).

Estimated Burden Statement: Public reporting burden for this form is estimated to average 18.1 hours per response including the time for reviewing instructions, gathering and maintaining data, and completing and reviewing the form. Direct comments regarding this burden estimate or any aspect of this form to the Chief, Administrative Services Division, National Park Service, P.O. Box 37127, Washington, DC 20013-7127; and the Office of Management and Budget, Paperwork Reductions Project (1024-0018), Washington, DC 20503.

OMB Approval No. 1024-0018

NPS Form 10-900-a (9-96)

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The National Center for Preservation Technology and Training