

CHAPTER 5
PREHISTORIC ARCHAEOLOGICAL RESOURCES:
IDENTIFICATION, EVALUATION AND TREATMENT
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CHAPTER 5

PREHISTORIC ARCHAEOLOGICAL RESOURCES: IDENTIFICATION, EVALUATION, AND TREATMENT

5-1 INTRODUCTION

At least 12,000 years of human occupation are represented in California's prehistoric archaeological sites. These resources form an irreplaceable source of knowledge of the prehistoric events, peoples, and lifeways of the region. Increasingly, however, growth and development have threatened the existence of that archaeological record which, once lost, can never be restored. By enacting a body of law and by providing regulations and guidelines, both the federal and state governments have taken steps to protect those non-renewable resources.

Caltrans cultural resource policy is to avoid and, if avoidance is not possible, to minimize adverse effects of transportation projects upon significant cultural resources. This chapter provides information on the procedures and documents used to implement this policy and to comply with state and federal laws and regulations, with respect to prehistoric archaeological resources; see Chapter 6 for guidance on historical archaeological resources.

5-2 LAWS AND REGULATIONS

Caltrans prepares cultural resources studies to comply with the California Environmental Quality Act of 1970 (CEQA) and Section 106 of the National Historic Preservation Act (NHPA) of 1966, as amended. [Chapter 2](#) discusses the general regulatory context of this work. [Chapter 3](#) discusses laws relating to the involvement of Native American Tribes, groups or individuals in cultural resource studies.

State and federal laws restrict the release of specific archaeological site location information to the public.

Consistent with the requirements of [NHPA Section 304](#), the Federal Highway Administration (FHWA), and Caltrans acting on its behalf, may withhold from disclosure to the public all information relating to the location or character of historic properties whenever they determine that disclosure may create a substantial risk of harm to the resource.

Information on archaeological site locations is also exempt from public access, as provided by the *California Public Records Act* ([California Government Code 6254.10](#)).

5-3 STANDARDS, WORK, AND SAFETY

5-3.1 PROFESSIONAL QUALIFICATIONS

Caltrans selects cultural resources specialists based on standards set by the California State Personnel Board and the federal [Secretary of the Interior's Professional Qualifications Standards](#). While these different standards overlap in many regards, they are not identical. Taking into consideration these different sets of standards in relation to Caltrans cultural resources needs, Caltrans has identified six levels of archaeological qualifications for Caltrans cultural resources staff. These six levels are codified as Professionally Qualified Staff (PQS) levels in the Section 106 Programmatic Agreement (Section 106 PA) [Attachment 1](#) (see [Exhibit 1.1](#)), and have been adopted as the new qualifications standards for both federal undertakings and state-only (Section 106 and CEQA-level) Caltrans cultural resources activities. These qualifications levels are as follows:

- Archaeological Crew Member
- Lead Archaeological Surveyor
- Co-Principal Investigator, Prehistoric Archaeology
- Co-Principal Investigator, Historical Archaeology
- Principal Investigator, Prehistoric Archaeology
- Principal Investigator, Historical Archaeology

These levels and associated criteria are specific to Caltrans, and may or may not correspond with similar titles and qualifications in other agencies and organizations. The six qualifications levels reflect increasing levels of expertise, as demonstrated by education, experience, understanding of the Section 106 process, and familiarity with Caltrans' cultural resource policies, procedures, and goals. Use of these qualifications levels is designed to provide a credible and competent staff, and to ensure that Caltrans staff meets the standards of the federal agencies that review Caltrans' work. All Caltrans archaeological work must be performed by and/or, directed and reviewed, by Professionally Qualified Staff, or PQS (i.e., staff meeting the qualifications for the designated level of work). More specifically, those not fully qualified as archaeological Principal Investigators may perform many tasks with Principal Investigator oversight (generally in the form of peer review) or under direct supervision Principal Investigator(s) in the appropriate discipline.

The Section 106 PA [Attachment 1](#) lists the criteria to meet these different qualification levels. Caltrans archaeological staff are certified as to level of expertise by submitting a completed copy of the relevant PQS certification form to the Headquarters' Cultural Studies Office (CSO) of the Division of Environmental Analysis (DEA) for evaluation by the CSO Chief. (See [Chapter 1](#) for a complete discussion on the subject of qualifications). [Exhibit 1.5 Table 2](#) provides a chart of PQS levels required for roles in archaeological studies.

Caltrans also uses the same professional qualifications standards in fulfilling its cultural resources compliance for prehistoric archaeology under other laws and regulations.

CALTRANS STAFF ARCHAEOLOGISTS

In addition to preparing technical studies, under the Section 106 PA Caltrans staff archaeologists who are certified as PQS also act on FHWA's behalf in reviewing and approving Section 106 documents. District or CSO PQS also may review consultants' résumés to ensure professionals meeting the Secretary of the Interior's Professional Qualifications Standards conduct work.

The PQS delegation applies to Caltrans staff only.

CONSULTANT ARCHAEOLOGISTS

Consultants working on FHWA undertakings and Caltrans state-only projects must meet the [Secretary of the Interior's Professional Qualifications Standards](#). While professional archaeologists outside of Caltrans who meet the *Secretary of the Interior's Professional Qualifications Standards* may prepare work for submittal under the Section 106 PA, they are not certified as PQS. The Caltrans PQS is responsible for the review, approval and submittal of consultant-prepared documents under the Section 106 PA.

5-3.2 STANDARDS FOR DOCUMENTS

Later sections of this chapter discuss the standards for completing and evaluating various Caltrans archaeological studies and documents. These standards are based primarily on the standards set forth at [36 CFR §800.11](#), but also rely on guidance in the [Secretary of Interior's Standards and Guidelines for Archeology and Historic Preservation](#), and the California Office of Historic Preservation (OHP) publications *Archaeological Resource Management Reports (ARMR): Recommended Contents and Format* (DPR 1989) and [Guidelines for Archaeological Research Designs](#) (DPR 1991).

5-3.3 CONFIDENTIALITY OF INFORMATION

Information on the specific locations of archaeological sites is made available only on a "need-to-know" basis to individuals who legitimately need this information to meet their project responsibilities. This may include Caltrans environmental branch chiefs and generalists, project managers and engineers, archaeological consultants, and Native American Tribes, groups or individuals.

As a general rule, archaeological site records, maps, and aerials depicting exact site locations are limited to technical documents, such as archaeological survey and excavation reports. *These documents are not available to the general public*, but qualified researchers may consult them at the District Environmental Branch (DEB), CSO, and the Information Centers of the California Historical Resources Information System ([CHRIS](#)). The Information Centers require all researchers who use the records to sign an *Agreement of Confidentiality* form which states that they will not disclose specific site locations to unauthorized individuals or in publicly distributed documents without written consent of the State Historic Preservation Officer (SHPO).

While management documents, such as Historic Property Survey Reports ([HPSR](#)), may need to extract information from technical documents, such documents are to exclude sensitive materials.

Technical documents containing confidential information should not be appended to copies of HPSRs that may circulate outside the path of FHWA/SHPO review. Documents attached to copies in that path must be labeled as confidential.

5-3.4 TYPICAL HOURS AND ELAPSED TIME FOR STUDIES

The amount of staff work and schedule time required to complete the different types of archaeological studies vary greatly, depending on a range of potentially important factors:

- Size of the project.
- Number and complexity of the sites involved.
- Changes in project schedules or design.
- Delays in ancillary studies.
- Conflicting workload priorities.

Caltrans has made several analyses of projects to provide rough estimates for work and schedule requirements. [Exhibit 2.3](#) summarizes these estimates

which can range from one month for a survey report to as much as five years for a project requiring data recovery excavations.

5-3.5 CSO ASSISTANCE WITH STUDIES

The CSO provides archaeological assistance to the Districts when requested. This assistance includes providing staff for surveys, remote sensing, excavations, other fieldwork, consultant monitoring, and laboratory work, report writing, and peer review of reports. To request assistance the District Environmental Branch Chief (DEBC) sends a memo to the appropriate CSO Branch Chief. [Chapter 1 Section 1-3.2](#) of this handbook describes the CSO branches and their functions. The request memo should state:

- The type of assistance needed.
- Basic information on the highway project, including county, route, post miles, and expenditure authorization.
- Project maps showing the project's location and limits.
- District contacts for the project, including the project manager, project engineer, and environmental generalist.
- Target date for completion of the requested service.
- Priority status of the proposed project in relation to other assistance work being done by CSO for the District.

5-3.6 FIELD SAFETY

Caltrans' policy is that "no field activity shall be considered so important or urgent that...any safe practice will be compromised." The lead archaeologist on a field crew is responsible for ensuring that the crew is aware of safety hazards, concerns, and precautions. [Chapter 4](#) and [Exhibit 2.6](#) provide more information on field safety.

For work in remote or dangerous localities and in hazardous areas or conditions, safety procedures include the "buddy system" on surveys and daily communication with a supervisor. Where applicable, staff should be certified in Hazardous Waste Operations and Emergency Response (40-HAZWOPER) safety training, confined space procedures, and shoring procedures. For excavations deeper than 150 cm (5 ft.), shoring, or acceptable alternatives to shoring, in conformity with the Division of Occupational Safety and Health (OSHA) standards, must be used. The principal investigator on excavations can also request a safety review by the District Safety Officer.

Additional information on safety practices can be found in:

- [Caltrans Safety Manual, Chapter 11](#), "Code of Safe Work Practices."

- [Caltrans Construction Manual, Chapter 2](#), "Safety and Traffic."
- [Caltrans Survey Manual, Chapter 2](#), "Safety." See relevant excerpts from this handbook in [Exhibit 2.6](#).

5-4 IDENTIFYING PREHISTORIC SITES (PHASE I)

The identification phase for archaeological studies typically involves conducting a records search, continuing consultation with Native Americans, conducting an archaeological field survey of the project Area of Potential Effects (APE), and documenting the results of the survey (both prehistoric and historical archaeological properties) in an Archaeological Survey Report (ASR), discussed in [Section 5-4.5](#).

5-4.1 PRE-FIELD PREPARATIONS

Preparations for archaeological surveys include:

- Defining the APE or Study Area on project mapping.
- Researching appropriate records and literature.
- Identifying Native American concerns.
- Securing the required permits for the survey from public agencies and private landowners.
- Scheduling the survey and making physical arrangements (coordinated with District Right of Way).

The archaeological survey area is based on the project APE, set by the Project Manager and the Caltrans PQS, see [Chapter 4, Section 4-3](#). If the APE has not been set by the time an archaeological survey is needed, then a Study Area will be designated until an APE can be delineated. The APE for archaeology is referred to as the Direct APE. It usually includes the existing right of way; any new right of way; all proposed easements, temporary or permanent, including staging areas or construction access roads; and material or disposal sites that may be impacted by project activities.

The project map, either a contour map or an aerial photograph, should have the project APE or Study Area delineated on it by District personnel in consultation with the Project Manager. Depending on the complexity of the project, all major cultural features and all facets of the proposed project (e.g., cut/fill lines, drainage structures, new right of way, borrow sites, haul roads) should be depicted on the map.

The map should be of a scale (at least 1" = 200') suitable to serve as a base map for the report.

Accurate maps or aerial photographs allow the archaeologist to plan the archaeological field survey, compare the project limits to the results of positive records searches, plot archaeological sites in relation to the proposed project, and ensure that the entire APE or Study Area is surveyed. In preparing for fieldwork on projects requiring new right of way, District Right of Way (R/W) personnel contact the landowners of private parcels through which the survey will pass.

Some background research is always conducted *in advance* of archaeological field surveys to ensure that surveyors are adequately informed about the types of resources they may be required to identify in the field. Staff should complete some minimal background research for all projects that require cultural resource identification efforts, as discussed in Chapter 4, [Section 4-5](#) and [Exhibit 4.1](#). The [CHRIS](#) Information Centers maintain records and reports of survey and excavation projects and are to be consulted prior to field survey and as early as practicable in the project planning process. Consult Caltrans records, such as previous studies and as-built drawings, prior to going in the field. Additional research may be appropriate for particularly sensitive regions or in urban settings.

Archaeologists typically request a CHRIS records search that identifies previously recorded sites and surveys within a one-mile radius of the study area and obtain copies of records for all recorded resources within one-quarter mile. Archaeologists should keep in mind the setting and scope of the undertaking when determining the appropriate spatial distance for the records search. For example: for an undertaking on a river, look for sites up and down the river rather than in a simple arbitrary circle. Where previously recorded archaeological sites are identified during the records search, that information should be used to predict archaeological sensitivity of the undertaking's APE. If a site was previously recorded in the undertaking's APE, include the previous site record form and updates in the ASR.

Caltrans PQS will determine when to contact the appropriate Information Center for a records search and will specify the level of information needed. *Local agencies should not order record searches unless Caltrans PQS determine it necessary.*

A CHRIS records search may be necessary to acquire enough information to screen an undertaking out of the Section 106 review process according to Section 106 PA [Attachment 2](#) and procedures in [Section 4-2.1](#). Consult with the

CSO Section 106/PA Coordination Branch (Section 106 Branch) Chief if additional guidance is necessary.

The project archaeologist works with the District Native American Coordinator (DNAC) to contact the appropriate Native American Tribes, groups or individuals to solicit any concerns they have about the proposed project or information they have on cultural resources in the project area.

5-4.2 ARCHAEOLOGICAL FIELD SURVEY

This section provides specific guidance regarding archaeological field survey methods and the preparation of Archaeological Survey Reports (ASR). In practice, an archaeological survey is always conducted unless it can be shown that

- All ground surfaces have undergone substantial modern disturbance, or
- The PQS determines that the APE or Study Area previously has been surveyed to appropriate standards.

The purpose of the archaeological survey is to identify and record all resources that meet the National Register of Historic Places National Register) definition of a "site" (See [National Register Bulletin 16A: Appendix IV](#)). The archaeologist also may make note of any historic-era built resources or other properties, such as potential Traditional Cultural Properties that may require referral to other experts.

According to Caltrans policy, nearly all ground-disturbing projects are surveyed in the field for the presence of archaeological resources. This includes projects in areas that may be rated as having "low archaeological sensitivity" by other agencies such as Information Centers. Saving a small amount of time by not surveying in low-sensitivity areas does not offset the risk of later delaying a project when there is late discovery of archaeological resources in such areas.

Archaeologists should survey plowed fields and graded areas because undisturbed portions of sites may still exist within those areas. In some urban areas, where no original ground surface is exposed, archaeologists should still conduct background research to determine whether:

- 1) Previously recorded sites are known, and
- 2) To identify the potential for buried sites that may require identification measures beyond a pedestrian archaeological reconnaissance.

If there is a high expectation for buried sites, subsurface testing or remote sensing studies might be warranted as part of the identification effort. Some projects do not require archaeological surveys. The most straightforward case for not conducting a survey is when adequate surveys in the area previously have

been completed. An archaeological survey may not be necessary in urban areas where research shows no original ground surface remains; however, the identification effort should assess the potential to encounter subsurface archaeological deposits. If a survey is not performed, the archaeologist should document the reasons in a memo that will be placed in the project file and, if appropriate, attached to the HPSR.

FIELD METHODS

Archaeological field survey strategies should include on-foot visual inspection of 100 percent of the APE (or Study Area) with regularly spaced transects. Exceptions to complete coverage include areas which cannot be safely accessed or which afford no ground visibility. These include dangerously steep slopes, dense underbrush, stands of poison oak, and areas that are paved or under water. The presence of small areas excluded from survey should be noted in the ASR; more extensive unsurveyed areas should be plotted on the Survey Coverage Map. If buried sites are expected, the ASR should mention that fact and indicate the need for

- 1) Any further studies that may be required to test for the presence of such resources,
- 2) Preparation of treatment plans, or
- 3) Preparation of a plan for discoveries during construction.

Parallel transects are the most common survey method:

- The lead archaeological surveyor determines the transect spacing on the basis of ground visibility, lateral visibility, and area sensitivity for prehistoric and historic remains.
- Maximum spacing should not be more than 25 meters; an interval of 15 meters is commonly used in many areas.
- If systematic linear transecting is not practical, zigzagging to ensure coverage is appropriate.

Where different coverage methods have been employed, indicate those locations on an appropriately scaled Survey Coverage Map.

COLLECTION OF ARTIFACTS

Artifacts are *not* collected during surveys. If, for some reason, collection of an artifact is considered necessary, a written justification and a curation plan must be submitted to the DEBC. Collection of diagnostic artifacts may be a condition of some federal survey permits, in which case the archaeologist will abide by the stipulations of the permit. Collection of artifacts on private lands also

requires the written permission of the property owner to whom the artifacts belong.

Collection is generally reserved for rare or unusual items of significant research value.

The unauthorized collection of artifacts is prohibited by Caltrans policy, may subject the collector to disciplinary action, and may be a violation of state or federal law.

5-4.3 PROPERTIES EXEMPT FROM EVALUATION

Section 106 PA [Attachment 4](#) identifies certain specific classes of properties that typically do not require recordation, evaluation, or further review. Chapter 4, [Section 4-4.1](#) discusses the procedures for implementing Section 106 PA Attachment 4. The lead surveyor is authorized to determine, in the field, what archaeological resources need to be recorded. Before fieldwork, the appropriately qualified PQS should define what constitutes an isolate, as this may vary from region to region and may differ from OHP's definition of "less than three associated artifacts." Isolates are formally recorded only *under unusual circumstances or for exceptional finds*, such as a fluted projectile point. Some public land-holding agencies, as part of their use permits, may require archaeologists to record isolates on their lands.

Section 106 PA Attachment 4 includes the category "isolated prehistoric finds consisting of fewer than three items per 100 m²." When potential isolated prehistoric finds are encountered, care should be taken to ensure such finds are in fact isolated. At the lead surveyor's discretion, shovel scrapes may be employed. The ASR should discuss all identification methods used. .

Section 106 PA Attachment 4 also includes the category "isolated refuse dumps and scatters over 50 years old that lack specific associations." This property type may require some research but typically does not warrant recordation, or evaluation effort. In situations where the potential for historical association (or lack thereof) is not directly evident, contact a Caltrans PQS for historical archaeology to discuss the property.

The level of documentation afforded exempt properties is based on the professional judgment of the PQS, in accordance with the guidance provided in Section 106 PA Attachment 4. Documentation, if warranted, should be "...at a level commensurate with the nature of the property."

It may be appropriate to note such finds in the ASR and on coverage maps in technical survey documents, but they are not described in the HPSR and are not plotted on APE maps. More formal recordation (e.g. DPR primary record

forms) should be used sparingly, as resources that warrant this level of documentation may require formal evaluation. Section 106 PA Attachment 4 does not apply to "...archeological sites, traditional cultural properties, or other cultural remains or features that may qualify as contributing elements of districts or landscapes."

The key to successful implementation of Section 106 PA Attachment 4 is sound professional judgment. Contact the appropriate CSO Branch Chief with questions concerning the applicability of this Attachment to specific resources. Consultants are encouraged to seek early involvement of district PQS in the appropriate discipline(s) and/or the appropriate CSO Branch Chief to avoid unnecessary study of resources that may be determined by PQS to be exempt from evaluation.

5-4.4 RECORDING ARCHAEOLOGICAL SITES

Surveyors should look for all evidence of past occupation, but recordation efforts should be restricted to resources that meet the definition given for prehistoric and historical archaeological sites. Archaeological properties not meeting the criteria of Section PA Attachment 4 should be recorded, included in the ASR and referred to an appropriately qualified Principal Investigator for evaluation, as warranted. Prehistoric and historical archaeological sites should be recorded in detail using the Caltrans DPR 523 forms. Instructions for completing the DPR 523 series forms are contained in the Office of Historic Preservation's [*Instructions for Recording Historical Resources*](#) (1995). DPR 523 Forms tailored for Caltrans use can be found on the DEA website under "Cultural Resources Studies, [Cultural Resources Issues](#)" in the [DPR 523 Form Templates](#) section.

The specific kinds of forms used to record a property will depend on the nature of the project and the type and complexity of the resource. The minimum level of documentation for all cultural resources is a Primary Record (DPR 523A) and Location Map (DPR 523J).

Detailed recordation of archaeological sites should minimally consist of:

- Primary Record (DPR 523A).
- Archaeological Site Record (DPR 523C).
- Sketch Map (DPR 523K).
- Location Map (DPR 523J).

If the following types of features are present, recordation also may require the use of:

- Rock Art Record (DPR 523G).

- Milling Station Record (DPR 523F).
- Linear Feature Record (DPR 523E).

Very large and complex sites composed of multiple components or features also could be recorded as districts. Use a Primary Record, Location Map, and District Record (DPR 523D) to document districts, with individual records also prepared for each major contributing element that falls within the APE of a project. Minor elements of the district usually do not require individual records if they can be described adequately on the District Record.

The documentation of historical archaeological resources that include linear features should be supplemented with a Linear Feature Record (DPR 523E) for the ruins of linear structures (e.g., water conveyance system, railroads, trails, and road ruins). Reasonable efforts should be made to ascertain the entire extent of any linear resource that is documented, using records such as historic maps and aerial photographs or inspection points at easily accessible locations along the resource. Summarize the information about the entire resource, to the extent known, on a Primary Record and Location Map. On the Linear Resources Record, mark the detailed field documentation of the portion of the resource within the APE or Study Area, as well as any other inspection points.

When recording archaeological sites the following considerations apply:

- If practicable, the *entire* property should be recorded, even when portions of that resource fall outside the initial Study Area. Under those circumstances it may be appropriate to expand the Study Area. For very large and complex resources (e.g., districts and linear resources) it may be adequate to define the overall extent and general configuration of the property without recording features outside the Study Area in detail. The final APE then would encompass the boundaries of the identified properties.
- For the purposes of field recordation, site boundaries should be drawn as lines encompassing all of the associated physical remains. Historical information should be used to the fullest extent possible when defining the limits of historic-era resources. Information about parcel, claim, and easement boundaries may have bearing on the limits of a historical resource.
- It is not necessary to describe every item observed, but a representative sample of the various types of materials present at a resource should be provided. Some effort should be made to describe, and, where appropriate, illustrate or photograph diagnostic materials such as projectile points, beads, and marked historic-period artifacts. For resources with multiple features or activity areas, observations regarding associated cultural materials should be given *separately* for each recorded locus because those locations may differ in age or function.

- As appropriate, describe the building materials and construction techniques of built environment ruins. Qualified historical archaeologists, architectural historians, or historians can assist with describing these ruins.
- Record all observable ground disturbances in and adjacent to archaeological deposits, including subsequent construction of buildings or roads. Plot all disturbance and modern features present at the site on the sketch map.

It is Caltrans policy that statements of significance regarding a site's eligibility for inclusion in the National Register and California Register of Historical Resources (California Register) are not made solely on the basis of site record information. Evaluations are the result of field visits and more extensive studies by appropriately qualified archaeologists.

NOTATION ON MAPPING WHEN BUILT ENVIRONMENT RESOURCES ARE PRESENT

When sites are associated with an intact building or structure (e.g., bridge, canal, silo, etc.), the built remains also should be noted on the Primary Record. Qualified architectural historians will record and evaluate built environment elements. Recordation of properties with both built and archaeological elements should be coordinated with qualified architectural historians as described in [Chapter 6](#) and [7](#). Questions about appropriate levels of documentation of built environment resources should be referred to the appropriate CSO Branch Chief.

5-4.5 ARCHAEOLOGICAL REPORTING

Use the Archaeological Survey Report (ASR) to document archaeological survey results. Be sure to append copies of all previously and newly prepared site records to the ASR. [Exhibit 5.1](#) contains guidelines for the format and content of ASRs. *The ASR documents both positive and negative archaeological survey results; it does not evaluate sites.*

The ASR is in text format only; there is no longer a short-form version of this document.

The ASR demonstrates that Caltrans has made a reasonable level of effort to identify historic properties that is commensurate with the scale and scope of the undertaking. Accordingly, the level of detail included in the ASR is variable. A small project with no sites may result in a three-page ASR while a

large project through several ethnographic areas with a number of sites may result in a 50-page ASR.

The ASR should briefly discuss the results of background research, including the modern environment, paleoenvironment, archaeology, ethnography, and history of the study region as appropriate. These background sections serve to provide a context for understanding the sites identified in the study, the project area sensitivity, and appropriate identification methods. Do not include irrelevant or unnecessarily detailed information in the report. In the text, the ASR should briefly describe and discuss each recorded resource individually. Do not include specific recommendations for further work in the ASR. If recommendations are to be made, the archaeologist should include them in a memorandum transmitting the final ASR to the DEBC.

WHEN TO USE A SUPPLEMENTAL ASR

If additional survey is required *after* preparation of an initial ASR, prepare a supplemental ASR. The supplemental ASR need not repeat the background section of the initial report, provided no further background research was needed. Supplemental ASRs are numbered sequentially: First Supplemental ASR, etc.

PRIMARY NUMBERS AND TRINOMIALS

For any newly recorded cultural resources, District HRCs obtain permanent primary numbers, and as appropriate, site trinomials from the appropriate [CHRIS](#) Information Center before completing the ASR. The project specialist or consultant may obtain primary numbers or trinomials at the HRC's direction. If obtaining permanent primary numbers and trinomials would create an unacceptable delay, temporary numbers may be used, with documentation of the request for permanent numbers appended to the report.

MAPS

All ASRs should attach at least three maps:

- *Study Vicinity Map*: depict the study vicinity in relation to the county or District.
- *Study Location Map*: show the area surveyed on the appropriate USGS quadrangle (at its original scale).
- *Survey Coverage Map*: show the area surveyed and the boundaries of identified cultural resources on detailed project mapping or aerials. Include the APE map if one has been prepared.

5-4.6 REVIEW, APPROVAL, AND DISTRIBUTION OF ASR

PEER REVIEW OF ASR

Caltrans PQS certified at the Co-Principal Investigator level or higher must peer review the draft ASR whether it is prepared by Caltrans PQS or qualified consultants. Caltrans PQS carefully review ASRs prior to submission to FHWA and SHPO to ensure timely consideration and approval by those agencies. Peer review ensures that the ASR:

- 1) Follows the format and content guidelines provided in [Exhibit 5.1](#)
- 2) Meets professional standards in field methods, site recording, and reporting
- 3) Fulfills the obligation of the identification step required by [Section 106 PA Stipulation VIII](#) and [36 CFR §800.4\(b\)](#).

See [Section 5-13](#) for guidance on the peer review process and documentation, review times, approvals, and document distribution.

APPROVAL AND DISTRIBUTION OF ASR

Following peer review, and any necessary revisions, the report preparer signs the title page of the final ASR. Then, Caltrans PQS certified at the Co-Principal level reviews for approval either the Caltrans staff- or consultant-prepared final ASR. Review ensures that the report is acceptable and that the maps depicting the Study Area and the area surveyed are accurate. If a Caltrans PQS Co-Principal Investigator has not prepared the report, the responsible PQS Co-Principal Investigator indicates review and *approval* by signing the title page of the report. The DEBC then reviews and formally approves the ASR by signing the title page.

Attach the ASR to the [HPSR](#) (for federal undertakings) or Historical Resources Compliance Report [HRCR](#) (for state-only projects) to document efforts to identify historic properties. The District HRC sends:

- One copy of the HPSR to which the approved ASR is attached, to the CSO Section 106 Branch Chief.
- One copy of the approved ASR, and two copies of each site record form, to the appropriate CHRIS Information Center.

If recommendations concerning the resources were made in a memo transmitting the ASR to the DEBC, a copy of this memo should be attached to the CSO transmittal memo. See [Chapter 2](#) for specific guidance on transmitting reports to FHWA and SHPO.

5-5 EXTENDED PHASE I FOR PREHISTORIC SITES

The Extended Phase I (XPI) study is an extension of the identification phase, meeting the requirements of [36 CFR §800.4\(b\)](#) and [Section 106 PA Stipulation VIII B](#). "to identify historic properties within the area of potential effects" and similar requirements under CEQA. The chief goal of the XPI study is to define part or all of the boundaries (horizontal or vertical) of an archaeological site.

According to FHWA, SHPO and Caltrans policies, there are five reasons to conduct an XPI study:

- 1) To determine whether a portion of a site extends horizontally into areas potentially affected by the undertaking, which would necessitate inclusion of the entire site within the undertaking's APE.
- 2) If site deposits do extend into areas potentially affected by the undertaking, to determine whether the deposits also extend into the Direct APE, or can be fully protected with the use of an Environmentally Sensitive Area (ESA).
- 3) If site deposits do exist within the Direct APE, to determine whether the portion of the site within the Direct APE is so disturbed that it would no longer have a potential to contribute to National Register eligibility or CEQA significance for the site as a whole.
- 4) To determine if a subsurface deposit is associated with surface materials or features (such as a bedrock milling station with no apparent associated remains).
- 5) To search for archaeological deposits (as an extension of the survey effort) in areas of high sensitivity where such deposits may be buried or obscured by sediment deposition, vegetation, or landscaping or other modern development.

This type of study is not appropriate if surface indications suggest a reasonable likelihood that an undisturbed or minimally disturbed subsurface deposit does exist in the APE.

An XPI is not appropriate for evaluating the significance of a site. The proper vehicle for evaluation is the Phase II test excavation. The District PQS determines the need for an XPI; the appropriate CSO Branch Chief is available for consultation on this decision.

The XPI study includes:

- Preparation of a proposal.
- Fieldwork.

- Laboratory work.
- Preparation of a report on the study results.

The results are summarized in the HPSR for federal undertakings or HRCR for state-only projects, to which the XPI Report is appended.

The typical work effort for fieldwork and reporting of an XPI study is 360 hours. The average elapsed time for producing a final product is 180 calendar days (6 months).

5-5.1 EXTENDED PHASE I PROPOSAL

Caltrans PQS archaeologists prepare and peer review an Extended Phase I (XPI) Proposal, and the DEBC approves it, prior to excavations. The proposal should indicate the reasons for the XPI study, the field methods to be used, and the thresholds that will determine when the study goals have been met. Because of the limited scope of the XPI study, extensive background information, and elaborate discussions of regional research questions are *not* appropriate.

The XPI proposal also should include:

- Curation plans.
- Arrangements for a Native American Monitor.
- Estimates of the time and personnel required to complete field, laboratory, and reporting tasks.

Proposal length should not exceed a few pages. [Exhibit 5.2](#) provides guidelines for preparing the XPI proposal.

Methods of excavation for this phase of study may include any combination of standard archaeological techniques, including mechanical excavation, surface scrapes, auger holes, shovel test pits, rapid recovery units, standard control units, and trenching. The XPI proposal should explain how the specific methods selected, including the type, number, and placement of study units, will achieve the study's goals.

5-5.2 REVIEW, APPROVAL, AND DISTRIBUTION OF XPI PROPOSAL

PEER REVIEW OF XPI PROPOSAL

Caltrans PQS certified at the Principal Investigator level must peer review the draft XPI Proposal. Caltrans PQS carefully reviews the XPI Proposal to ensure that the XPI Proposal clearly defines

- The goals of the study.
- The methods to be used.
- The factors that will determine the scope of the study.

See [Section 5-13](#) for guidance on the peer review process and documentation, review times, approvals and document distribution.

A biologist also should review the XPI Proposal to ensure that no impacts to significant biological resources would result from archaeological excavation.

APPROVAL AND DISTRIBUTION OF XPI PROPOSAL

Following peer review, and any necessary revisions, the report preparer signs the title page of the final XPI Proposal. If a Caltrans PQS certified at the Principal Investigator level has not prepared the proposal, the responsible PQS Principal Investigator indicates review and *approval* by signing the title page. The DEBC then reviews and formally approves the XPI Proposal by signing the title page.

5-5.3 PRE-FIELD PREPARATIONS

Pre-field preparations include:

- Obtaining maps and/or aerial photographs.
- Securing permits and curation agreements.
- Coordinating with Native American Monitors.

The Pre-excavation Checklist ([Exhibit 5.9](#)) contains additional pre-field preparations.

Maps and/or aerial photographs of sufficient detail are necessary to document the XPI fieldwork and to show the relationship of site limits to the project APE.

Mapping should be at scale (e.g., 1":20', 1":50') suitable to serve as a base map for the XPI Report.

Assessor's parcel maps should be obtained in order to clearly determine the ownership of the property on which excavation is to be undertaken. Engineering plans, cross-section schematics, and/or as-builts may be necessary to determine and demonstrate the spatial relationship between proposed testing efforts, previous disturbances, and the proposed project.

Obtain required permits before beginning fieldwork. District Right-of-Way staff obtains written permission for any excavation on private lands.

For liability reasons, written permission from private landowners is necessary if the fieldwork is conducted on private land. The project archaeologist will supply to District Right-of-Way staff a concise and clear written explanation of the work to be conducted. Artifacts legally are the property of the landowner and are to be returned to the owner, unless a written agreement is obtained for Caltrans to retain and curate the recovered artifacts. Professional responsibilities dictate that every effort should be made to obtain permission for curation of recovered archaeological materials. [Section 5-11](#) discusses permit requirements, procedures, and responsibilities; [Exhibit 2.6](#) also contains additional guidance on obtaining entry.

A curation agreement with an approved facility should be in place before fieldwork commences. If arrangements with a facility cannot be completed prior to work, the proposal must identify how and where materials will be maintained until an agreement is reached. The DEBC reviews and approves the curation agreement.

The project archaeologist works with the DNAC to notify the appropriate Native American Tribe, group, or individuals and provide them the opportunity to participate in the XPI study.

The minimum qualification for directing the XPI study is Co-Principal Investigator under the supervision of a Principal Investigator; qualifications levels for other participants in the XPI are shown in [Exhibit 1.5 Table 2](#).

5-5.4 FIELDWORK, LABORATORY ANALYSIS, AND CURATION

Field and laboratory work should follow the proposed plan. Because XPI studies typically result in the recovery of a minimal quantity of archaeological materials, laboratory work will probably be limited to washing, basic identification of materials and artifact types, cataloging the materials, and the tabulation of their quantities.

If a Phase II study is to be undertaken soon after the XPI fieldwork, the full processing and analysis of the XPI collection may be deferred for inclusion with the Phase II collection. However, if any uncertainty exists as to whether the Phase II study will be conducted, or if any substantial time will elapse before it is begun, the XPI collection separately should be processed and reported. Caltrans is committed to complete documentation of the collection, regardless of changes in highway project plans.

Recovered materials are to be curated at an appropriate repository in accordance with [36 CFR Part 79, "Curation Of Federally Owned And Administered Archaeological Collections"](#), and OHP's ["Guidance for the Curation of Archaeological Collections"](#).

REMOTE SENSING

Fieldwork also may include remote sensing. Information gained through remote sensing may aid in the identification and National Register eligibility and CEQA significance evaluation of a site by gathering context-related data on subsurface components through non-invasive means. This option is true in depositional and non-depositional environments. [Exhibit 5.10](#) contains a more complete discussion of the benefits and requirements for incorporating a geophysical survey, such as a remote sensing survey, into project schedules.

5-5.5 EXTENDED PHASE I REPORT

The Extended Phase I (XPI) Report explicitly should address the purpose for which the work was undertaken: the relationship of the site limits to the project's direct and indirect APE, and the integrity of the deposit within the direct APE. If the study has refined the boundaries or characteristics of the archaeological site, append a revised archaeological site record to the report. Additionally, the report provides basic documentation of any cultural materials that were recovered and the nature of the deposits that were encountered.

Do not include recommendations for further work in the XPI Report. Include such recommendations, if there are any, in the transmittal memo attached to the final report sent to the DEBC for approval. [Exhibit 5.3](#) provides guidance for the format and content of XPI Reports.

5-5.6 REVIEW, APPROVAL, AND DISTRIBUTION OF XPI REPORT

PEER REVIEW OF XPI REPORT

Caltrans PQS certified at the Principal Investigator level must peer review the draft XPI Report. Caltrans carefully reviews XPI Reports to ensure that it

meets Section 106 or CEQA compliance needs and professional standards. Peer review should evaluate:

- 1) Whether the study followed the scope of work as proposed.
- 2) The adequacy of the field techniques used.
- 3) Whether the goals of the study have been met.

See [Section 5-13](#) for guidance on the peer review process and documentation, review times, approvals, and document distribution.

The District PQS also should send draft *review* copies to any agencies permitting the work, such as the Bureau of Land Management or the U.S. Forest Service. Their comments should be addressed in the final report.

APPROVAL AND DISTRIBUTION OF XPI REPORT

Following peer review, and any necessary revisions, the report preparer signs the title page of the final XPI Report. If a Caltrans PQS certified at the Principal Investigator level has not prepared the report, then the responsible PQS Principal Investigator indicates review and *approval* by signing the title page of the report. The DEBC then reviews and formally approves the XPI Report by signing the title page.

Attach the XPI Report to the HPSR (for federal undertakings) or HRCR (for state-only projects). The District HRC sends:

- One copy of the HPSR to which the approved XPI Report is attached, to the CSO Section 106 Branch Chief.
- One copy of the approved XPI Report to the appropriate CHRIS Information Center.
- Additional copies of the HPSR or HRCR to which the approved XPI Report is attached, to any agencies permitting the work and to consulting Native American Tribes, groups or individuals.

For federal undertakings, if the transmittal memo to the DEBC provides any recommendations concerning the resource, a copy of the memo is included in the package sent to the CSO Section 106 Branch Chief. See [Chapter 2](#) for specific guidance on transmitting reports to FHWA and SHPO

5-6 EVALUATING PREHISTORIC SITES (PHASE II)

Federal agencies are required to follow [36 CFR §800](#) to consider the effects of an agency's undertaking on properties listed in or determined eligible for inclusion in the National Register, and to afford the Advisory Council on Historic

Preservation (ACHP) a reasonable opportunity to comment on the effect finding. Caltrans achieves this for FHWA through implementation of the Section 106 PA. For sites that cannot be avoided by the project, CEQA Guidelines [§15064.5](#) also provide for the evaluation of their importance and CEQA Guidelines [§15126.4\(b\)](#) provide for mitigating project effects to important sites.

Caltrans uses the [National Register criteria](#) (36 CFR §60.4) to evaluate whether a site is eligible for inclusion in the National Register for Section 106 compliance on federal undertakings, as well as for compliance under Public Resources Code (PRC) [§5024](#) for state-owned archaeological resources. For CEQA, Caltrans uses the California Register criteria ([PRC §5024.1](#)), as required by CEQA Guidelines [§15064.5\(a\)\(1\)](#). See [Exhibits 2.16](#) and [4.2](#) for additional information on eligibility criteria.

If project impacts to an archaeological site cannot be avoided, a Phase II study may be undertaken to evaluate the site and to assess potential project effects. A Phase II study may consist of test excavations and other work for these objectives. The results of a Phase II study are presented in an Archaeological Evaluation Report (AER), which is appended to an HPSR or HRCR, per [Section 5-6.8](#) below.

Archaeological sites are most commonly determined eligible for inclusion in the National Register based on Criterion D because they "have yielded or may be likely to yield information important in prehistory or history." In some cases, other National Register criteria may apply to archaeological sites as well. However, in order to be eligible under these other criteria, a property must also retain integrity (see [Exhibits 2.16](#), [4.2](#) and [National Register Bulletin 15](#) for more detailed discussions of integrity).

Archaeological sites may qualify for the National Register by criteria or characteristics other than those that effectively can be obtained or mitigated by excavation. These National Register qualities may necessitate preserving the site in place and, thus, may subject the site to Section 4(f) of the Department of Transportation Act of 1966 (see [Chapter 2](#) for further discussion of Section 4[f]).

On projects with a high number of prehistoric archaeological sites or prehistoric archaeological sites of a sensitive nature, it may be appropriate to conduct a formal ethnographic study of the project area. Such a study would determine if other cultural attributes associated with the sites could contribute to significance, perhaps with reference to National Register eligibility criteria other than Criterion D. This type of study should be viewed as *complementing*, rather than replacing, the larger Native American consultation effort for a project (see [Chapter 3](#)). Such studies might consist of ethnographic and historic research and interviews with Native American informants. Studies of this type should

be conducted concurrently with archaeological investigations and integrated or attached to the body of the Phase II report, as they may enhance one's understanding not only of the National Register status of the sites, but also of the archaeological data gathered during Phase II excavations.

PHASE II STUDY

The Phase II study generally consists of fieldwork, analyses of the recovered material, and preparation of a report. The AER documents:

- The study activities.
- Presents the results and their interpretation to professional standards.
- Provides justification for a determination that the site is eligible—or is not eligible—for inclusion in the National Register (or is a historical resource for the purposes of CEQA, if appropriate).

If the site is determined to be eligible for inclusion in the National Register, or is a historical resource under CEQA, the Phase II study also serves to gather data necessary to address project effects and design a mitigation strategy, if appropriate. For the above reasons, even if a site previously has been determined eligible/significant, a Phase II study may be desirable. This situation may arise when previous evaluation studies were not conducted in the specific area to be affected, or when the site is part of a National Register-listed or eligible historic district, but little or nothing is known about the particular site within the project's direct APE. The DEBC determines whether a Phase II excavation is needed, in consultation with appropriate CSO staff if warranted.

The Phase II study should focus on the portions of the site that would be *directly* affected by the undertaking (i.e., portions within the direct APE). While confining Phase II studies to affected areas of the sites may limit the ability to address the eligibility of sites as a whole, there are three important reasons for this practice:

- 1) *To avoid the unnecessary costs* of testing areas that have no potential to be affected.
- 2) *To avoid unnecessary disturbances* to these areas as a result of the testing effort itself.
- 3) *To ensure that enough data is obtained* during the Phase II effort to adequately address project effects and to design mitigation measures, if needed.

In some situations it may be appropriate to investigate adjacent areas (outside the direct APE) in order to understand the context of the deposits to be potentially affected. In cases where the project limits have not been precisely defined, such investigation might also be appropriate. Even in these cases, how-

ever, testing efforts should be weighted heavily towards the portions of the site within the direct APE.

Section 106 PA [Attachment 3](#) states:

While an APE will generally encompass an entire property, physical intrusion such as testing of archaeological sites must be focused on areas subject to reasonably foreseeable effects of the undertaking and should be guided by a project- or site-specific research design. Areas of an archaeological site that are unlikely to be affected by an undertaking should not be tested unless compelling reasons to conduct such testing are provided in the research design.

For state-only projects, under CEQA Guidelines, it is possible to combine Phase II and Phase III (data recovery) work in a single phase. The Phase II/Phase III Proposal for this approach will specify the conditions under which test excavation would phase into data recovery. CEQA Guidelines also allow for Phase III studies to be conducted without a preceding test excavation, if the site clearly is an important resource. The nature of the research to be conducted must be apparent, obviating the need for data generated by a Phase II study. The appropriateness of combining Phase II and Phase III work, or of proceeding directly to Phase III, will be decided by the DEBC on a case-by-case basis, *prior* to any fieldwork. Proceeding directly to Phase III mitigation is *not* appropriate if there may be alternatives for avoidance.

TIME REQUIRED TO CONDUCT PHASE II STUDIES

Caltrans staff or contracted consultants may conduct the Phase II study. The recommended work standard for fieldwork and reporting of a Phase II study is 1,768 person-hours, or the equivalent of one person-year. The average elapsed time for producing a final product, whether in-house or contracted, is approximately one year (see [Exhibit 2.3](#)). Experience has shown that it is very difficult to shorten this twelve-month time period. Projects with numerous or complex sites typically will require more than one year for completion of Phase II studies. These time frames underscore the crucial position a Phase II excavation occupies on the Section 106 compliance path.

The minimum PQS qualification level for directing the Phase II study is the Co-Principal Investigator with oversight by a Principal Investigator. [Exhibit 1.5 Table 2](#) depicts qualifications levels for other participants in the Phase II study.

5-6.1 ASSUMPTION OF ELIGIBILITY WHEN USING AN ESA UNDER THE SECTION 106 PA

[Section 106 PA Stipulation VIII.C\(3\)](#) allows Caltrans to consider an archaeological site eligible for inclusion in the National Register when it will be protected from any potential effects by the establishment and effective enforcement of an Environmentally Sensitive Area (ESA).

An important condition to using an ESA is that the site is considered eligible *for the purposes of the undertaking*, and that the assumption does *not* extend to other undertakings whose APE might include the archaeological property.

This assumption of eligibility only for the purposes of the specific federal undertaking has important implications for the California Register because any property that is finally determined eligible for inclusion in the National Register through a federal action is *automatically listed* in the California Register. This explicit qualifier ensures that sites are not inadvertently listed in the California Register.

When using [Section 106 PA Stipulation VIII.C\(3\)](#), a site is assumed to be National Register eligible, but the report must specify under which criteria it is eligible (usually Criterion D). Caltrans must consult with Native American Tribes, groups and individuals to see whether Criteria A, B, or C apply in addition to, or instead of, Criterion D. If other values are present, Caltrans must consult those Tribes or other interested parties that attach religious and cultural significance to the property to determine whether an ESA will adequately protect those other values without other conditions or mitigation. If the ESA will adequately protect the site and all values, then this stipulation is appropriate.

Use of an ESA to protect a site from adverse effect results in a finding of No Adverse Effect with Standard Conditions under Section 106 PA [Stipulation X.B.2](#). Note that use of this finding requires thorough documentation that demonstrates that *all* of the conditions contained in Section 106 PA [Attachment 5](#) have been met. See Chapter 2 [Section 2-5.3](#) for details on processing an HPSR containing such a finding. When an ESA is used in combination with other measures, whether on the same site or for other sites within the APE, the appropriate finding for the entire undertaking would be No Adverse Effect. An ESA also may be an element of a plan to resolve adverse effects stipulated in a Memorandum Of Agreement (MOA). See [Section 5-7](#) and [Exhibit 2.7](#) for further guidance on using ESAs.

5-6.2 EVALUATION WITHOUT EXCAVATION

Prehistoric archaeological sites usually require test excavation to determine whether they qualify for inclusion in the National Register. However, there are cases in which a determination can be made without Phase II excavation.

A site may be determined to be eligible for inclusion in the National Register on the basis of:

- Information generated in previous excavations.
- Unusual and important surface characteristics, such as rock art, or features such as house pits.
- Ethnographic or ethnohistoric information.
- Existing stratigraphic exposures indicating the presence of important subsurface constituents.

In unusual circumstances, a site may be determined ineligible without subsurface testing, based on depositional circumstances that preclude the presence of any subsurface cultural deposit. Examples of this type of circumstance include an isolated bedrock-milling feature on an expanse of granite bedrock, or when research clearly shows a loss of integrity because of previous construction impacts.

The basis for a conclusion that a site is eligible or not eligible for inclusion in the National Register without subsurface testing must be thoroughly and convincingly documented. Caltrans does not have a report type specifically for this situation. In most cases, use of a modified Archaeological Evaluation Report format will be appropriate. In simple cases, however, a letter report may suffice; see [Exhibit 6.1](#). Note that under Criterion D, sites may be eligible based upon their *potential* to yield information. This potential must be explicated clearly, based on a fully developed research design and an understanding of similar site types. A Principal Investigator (prehistoric or historical, as appropriate) must prepare and sign the document, which needs to be peer reviewed by a similarly qualified archaeologist. It will be attached to the HPSR or HRCR.

There are both potential advantages and disadvantages in evaluating eligibility without excavation. Omitting a Phase II study may substantially reduce costs and schedule time. It may eliminate disturbances to portions of a site that will not be affected by the highway project. However, if the proposed eligibility determination is not accepted by reviewing agencies, and test excavations are ultimately required, the adverse consequences for the project's schedule may be severe. Test excavations also help in evaluating project effects and in designing appropriate data recovery programs. These objectives may be more difficult to meet if Phase II test excavation is bypassed.

5-6.3 USING PROGRAMMATIC TREATMENTS / CARIDAPS

Some Phase II studies may be accomplished through resource-specific programmatic treatments developed and coordinated by the OHP. These programmatic treatments, called CARIDAPS or *California Archaeological Resource Identification and Data Acquisition Programs*, establish procedures for the efficient identification, recordation, and management of certain archaeological resource classes that contain limited but useful data. The [Sparse Lithic Scatter CARIDAP](#) is the only CARIDAP that OHP has approved to date.

The implementation of a CARIDAP serves to satisfy the historic compliance process and is meant to streamline the management process by eliminating the need for formal Phase II or Phase III studies. For a qualifying site, CARIDAP implementation defines the site through prescribed field identification methods, and provides sufficient information to ensure accurate site classification and evaluation of the resource's research potential. For this CARIDAP to be applicable, the site must meet the following criteria:

- 1) It must contain *only* flaked stone, and lack other classes of archaeological material (such as groundstone, fire-affected rock, pottery, bone, or shell).
- 2) It must be smaller than 10,000 m² in area.
- 3) It must lack a substantial cultural deposit, as defined by the program.
- 4) It must have surface artifact densities less than or equal to three items per square meter.

The restrictions of these criteria (especially #1 and #3) limit the applicability of the CARIDAP program in evaluating most sites. CARIDAP treatment is also not appropriate when only a portion of the site is accessible.

Experience has shown that the CARIDAP process often reveals the need for a more traditional and complete Phase II evaluation. Thus, while the CARIDAP is designed to streamline the evaluation process, the risk of having to do an additional Phase II study, with attendant costs and schedule delays, is a significant drawback in using the CARIDAP program. For this reason, the CARIDAP program may be most useful as an initial stage in a larger evaluation effort. In this case, the Phase II proposal/research design should address the use of this program.

Use of the CARIDAP in this fashion allows for evaluation efforts to be abbreviated, if CARIDAP criteria are met. If the CARIDAP criteria are exceeded, it allows for full evaluation efforts to proceed in accordance with the research design.

5-6.4 ARCHAEOLOGICAL EVALUATION PROPOSAL (AEP)

An Archaeological Evaluation Proposal (AEP), also referred to as a “Phase II Proposal,” is prepared and peer-reviewed by qualified prehistoric archaeologists and approved by the DEBC prior to excavations. The proposal should state the goals of the study, and clearly link the anticipated field and laboratory work to those goals. [Exhibit 5.4](#) provides guidelines for preparing the proposal.

Because a Phase II study will evaluate the research potential of a site, the proposal must present:

- Sufficient background information.
- A realistic and site-specific research design.
- Discussion of relevant regional research issues.

Arrangements for Native American Monitors, curation plans, permits and estimated time and personnel requirements are also addressed. District Caltrans PQS also should inform the project biologist of the proposed testing activities to ensure that an archaeological excavation would not result in impacts to significant biological resources.

5-6.5 REVIEW AND DISTRIBUTION OF AEP

PEER REVIEW OF AEP

Caltrans PQS certified at the Principal Investigator level must peer review the draft AEP. Peer review should ensure that the AEP:

- Contains a clear definition of study goals.
- Considers appropriate regional research concerns.
- Specifies a realistic level of effort and timeline to meet the goals.

See [Section 5-13](#) for guidance on the peer review process and documentation, review times, approvals, and document distribution.

It also may be appropriate to have the draft proposal reviewed by permitting agencies (e.g., COE, USFS, BLM), and/or local Native American groups. Experience suggests that 15 to 20 working days may be necessary for review on projects involving numerous resources or coordination with outside agencies (see [Section 5-11](#), “Archaeological Study Permits”).

APPROVAL AND DISTRIBUTION OF AEP

Following peer review, and any necessary revisions, the report preparer signs the title page of the final AEP. If a Caltrans PQS certified at the Principal Investigator level has not prepared the proposal, then the responsible PQS Principal Investigator indicates review and *approval* by signing the title page. The DEBC then reviews and formally approves the AEP by signing the title page.

The District HRC sends:

- One copy of the AEP to the CSO Section 106 Branch Chief.
- Additional copies of the approved AEP to any agencies permitting the work and to consulting Native American Tribes, groups or individuals or any other consulting parties.

5-6.6 PRE-FIELD PREPARATIONS

The following are key pre-field preparations:

- 1) Obtain the necessary project maps, aerial photographs, assessor's parcel maps, etc.
- 2) Secure the proper permission or permits and curation agreements.
- 3) Coordinate with the Native American community and specifically with the Native American Monitor.

Additional pre-field measures may be found in the Pre-Excavation Checklist provided as [Exhibit 5.9](#).

Obtain the appropriate maps or aerial photographs from the project engineers or through the District or Headquarters Photogrammetry units. The Environmental Planner (Generalist) for the project typically obtains the Assessor's parcel maps.

The Principal Investigator confirms that the proper permits are secured if the study will occur on, federal, or other public lands, or within the coastal zone. The timeframe for pre-field preparations must allow for the permit processing. See [Section 5-10](#) for an expanded discussion on permit requirements, procedures, and responsibilities

Assessor's parcel maps should be obtained in order to clearly determine the ownership of the property on which excavation is to be undertaken. Engineering plans, cross-section schematics, and/or as-builts may be necessary to determine and demonstrate the spatial relationship between proposed testing efforts, previous disturbances, and the proposed project.

Obtain required permits before beginning fieldwork. District Right-of-Way staff obtains written permission for any excavation on private lands.

For liability reasons, written permission from private landowners is necessary if the fieldwork is conducted on private land. The project archaeologist will have to supply to District Right-of-Way staff a concise and clear written explanation of the work to be conducted. Artifacts legally are the property of the landowner and are to be returned to the owner unless a written agreement is obtained for Caltrans to retain and curate the recovered artifacts. Professional responsibilities dictate that every effort should be made to obtain permission for curation of recovered archaeological materials. [Section 5-11](#) discusses permit requirements, procedures, and responsibilities; [Exhibit 2.6](#) also contains additional guidance on obtaining entry.

A curation agreement with an approved facility should be in place before fieldwork commences. The DEBC reviews and approves the curation agreement. See [Chapter 3](#) for additional information.

The DNAC arranges for the Native American Monitor, but the Principal Investigator or field director is responsible for day-to-day liaison in the field. Monitoring agreements may be prepared before fieldwork that includes procedures to be followed in the event human remains are encountered. See [Chapter 3](#), "Native American Cultural Studies," for further pertinent information.

5-6.7 FIELDWORK, LABORATORY ANALYSIS, AND CURATION

The fieldwork and laboratory analysis need to follow the plans identified in the AEP. If changes are deemed necessary, the Principal Investigator should write the justification and file it with the district's project files. Phase II laboratory studies must be detailed enough to meet professional standards and to provide the data necessary to evaluate site integrity, research potential, and National Register eligibility or CEQA significance. Some specialized analyses may require separate consultant contracts.

Recovered materials are to be curated at an appropriate repository in accordance with [36 CFR Part 79, "Curation Of Federally Owned And Administered Archaeological Collections"](#), and OHP's ["Guidance for the Curation of Archaeological Collections"](#).

5-6.8 ARCHAEOLOGICAL EVALUATION REPORT

Note: the Archaeological Evaluation Report used to be called the “Phase II Report” in previous versions of this volume; the change in the title clarifies the purpose of the report for non-cultural resources personnel.

The Archaeological Evaluation Report (AER) provides the basis for determining whether a site is eligible for inclusion in the National Register or is a historical resource under CEQA. It also may document whether the proposed project will adversely affect eligible properties. To accomplish this, the report describes the fieldwork, data analyses undertaken, and the conclusions derived from them. Based on this information, the AER also demonstrates that the site does—or does not—possess the additional information potential to address significant research questions. It also may conclude that the portion of the site in the direct APE—does or does not—contribute to that potential. [Exhibit 5.5](#) contains guidance on the format and content of AERs.

In rare instances, full presentation of Phase II findings may be deferred for inclusion in a Data Recovery Report. However, the AER must contain assurances that full reporting in the Data Recovery Report will occur in a timely fashion. *Changes in project plans or elimination of the need for data recovery will not alter Caltrans' responsibility to report the Phase II results.* This approach should only be used with previous agreement from SHPO.

Do not include specific recommendations for further work in the AER. If recommendations are to be made, the archaeologist should include them in a memorandum transmitting the final AER to the DEBC.

Prepare a revised archaeological site record, incorporating information gained during Phase II studies, and append the record to the AER. The District HRC also separately files the revised archaeological site record with the appropriate CHRIS Information Center.

5-6.9 REVIEW, APPROVAL, AND DISTRIBUTION AER

PEER REVIEW OF AER

See [Section 5-13](#) and [Exhibit 2.11 Table C](#) for guidance on the peer review process and documentation, review times, approvals, and document distribution.

Both draft and final versions of the Archaeological Evaluation Report are usually prepared in order to ensure that review comments are adequately addressed. The reviewers should focus on substantive concerns in the report. Cal-

trans PQS certified at the Principal Investigator level must peer review the draft and final AER. Caltrans carefully reviews AERs prior to submission to FHWA and SHPO to ensure timely consideration and concurrence by those agencies. The AER is peer reviewed to ensure professional adequacy in:

- Field and laboratory techniques
- Reasonableness of analysis and interpretation
- Quality of presentation
- Consistency with Caltrans and OHP standards
- Adequacy of the Section 106 consultation process (for federal undertakings)

Experience has shown that a “cold” reviewer who is unfamiliar with the undertaking is more likely to provide an objective review, which helps guarantee that the document will be easily understood by regulatory agencies (i.e., SHPO) and other outside readers.

Peer review of draft AERs by outside archaeologists knowledgeable in the prehistory of the region may be beneficial if there is sufficient time to secure such a review and still meet Section 106 compliance schedules. Caltrans PQS ultimately must review the AER for approval, in accordance with the [Section 106 PA Stipulation XVI](#). For specific information on outside peer review, contact the CSO Section 106 Branch Chief.

The District HRC also should forward the draft AER to permitting agencies (e.g., COE, USFS, BLM) for review, as well as to appropriate Native American Tribes, groups or individuals when prehistoric sites are involved. Depending on the resources being evaluated and the scope of the project, giving these organizations an opportunity to comment may be required for Section 106 consultation efforts [[see 36 CFR §800.4\(c\)](#)]. Review of the draft AER by permitting agencies also may be a condition of specific permits. In instances involving especially numerous or complex resources, it may be advantageous to plan for a second draft prior to delivery of the finalized report. This option provides an opportunity to address any lingering concerns, as well as a longer review period for outside reviewers from permitting agencies and Native American Tribes, groups or individuals.

APPROVAL AND DISTRIBUTION OF AER

Following peer review and any necessary revisions, the report preparer signs the title page of the final AER. If a Caltrans PQS certified at the Principal Investigator level has not prepared the report, then the responsible PQS Principal Investigator indicates review and *approval* by signing the title page. Finally, the DEBC reviews and formally approves the AER by signing the title page.

For federal undertakings, the District HRC sends

- One copy of the approved AER to SHPO for concurrence on National Register eligibility with concurrent submittal to the FHWA.
- If Native Americans have been consulting parties they get a copy concurrent with the SHPO submittal unless the Tribe has indicated it does not want a copy

After SHPO has concurred on National Register eligibility determinations (for federal undertakings), or, for state-only projects, after the DEBC has approved the final AER, the District HRC provides:

- One copy of the approved AER to CSO Section 106 Branch Chief.
- One copy of the approved AER to the regional CHRIS Information Center.
- Additional copies of the approved AER to permitting agencies as required for conditions of permits (e.g., COE, USFS, BLM), and to any other consulting parties.

See [Exhibit 2.18](#) for Caltrans policies regarding the publication and external distribution of reports.

If the memo transmitting the AER to the DEBC for approval made recommendation concerning the resource, this memo also should be sent to the CSO Section 106 Branch Chief (for federal undertakings).

5-7 ENVIRONMENTALLY SENSITIVE AREAS

When a resource within the APE can be protected from adverse effects, the resource and a surrounding buffer is designated an Environmentally Sensitive Area (ESA) and preserved in place. The ESA signals an area to be protected by avoidance or by restrictions on Caltrans activities.

Establishment and enforcement of an ESA is explained in the ESA Action Plan that is prepared for each undertaking. The ESA Action Plan explains specific provisions that will be employed to physically protect the site (e.g., construction of protective fencing). Enforcement measures include provisions such as periodic monitoring by PQS or consultant archaeologists (with periods mandated), Native Americans as appropriate, or contractually binding penalties for violations of the ESA. [Exhibit 2.7](#) provides further guidance on what to include in an ESA Action Plan.

5-7.1 PROVIDING ESA INFORMATION TO OTHERS

The DEBC is responsible for developing and providing information on ESAs to the other functional units. The DEBC provides ESA information to:

- District Project Development, for inclusion in construction plans (i.e., *Plans, Specification, and Estimates*).
- Resident Engineer (RE), as special instructions to the RE's Pending File, and a copy of these instructions to CSO.
- District Maintenance, information on permanent ESAs established within Caltrans right of way, ownership, or jurisdiction.

5-7.2 ENFORCEMENT OF ESAS

During construction:

- The *Resident Engineer* ensures that contractors adhere to the contract Non-Standard Special Provision (NSSP) regarding the ESA.
- The *DEBC* is responsible for ensuring that construction is monitored and for communicating with the RE regarding ESA compliance.
- The *Monitors* may be Caltrans PQS certified at the Co-Principal Investigator level (see Section 106 PA [Attachment 1](#) and [Exhibit 1.5](#) Table 2), or they may be consultants who meet the [Secretary of the Interior's Professional Qualifications Standards](#) for archaeologists.

For maintenance activities:

- *District Maintenance Engineer, maintenance region manager, and staff* are responsible for ensuring that ESAs are protected during maintenance activities.
- Maintenance staff must check with the DEBC *before* ground disturbing activities that may affect ESAs that the DEBC identified.
- The DEBC ensures monitoring of permanent ESAs to evaluate their effectiveness. Any problems should be discussed with the appropriate maintenance personnel immediately.

5-7.3 POSTING OF ARCHAEOLOGICAL ESAS

Fencing, staking, or other physical barriers may be necessary to guarantee protection of an ESA. ESA protective measures are taken when failure to do so likely would result in damage to a resource because of its proximity to a construction area or maintenance activities. ESA protective measures also are taken if the resource is of unusual sensitivity. When such damage is unlikely,

these measures may not be desirable because they may draw attention to the resource.

The DEBC decides:

- Which ESAs need to be posted.
- How they are to be posted (e.g., signs, staking, or fencing).
- Who will be responsible for posting the ESAs.

This ESA information must be

- Included in the contract's Special Provisions and mapped on the plans.
- Included in the RE's Pending File.
- Explained to the RE by environmental staff at a strategy meeting.
- Provided to Maintenance and Permits if the ESA is permanent.

When the highway contractor is to install a fence, the fence specification, order of work, and lead time to arrange for a monitor (if appropriate) must be specified in the contract. *The contractor does not need to know the nature of the resource being protected.* An added measure of protection is afforded an archaeological site if its presence does not become general knowledge.

Compliance under Section 106 is jeopardized if ESAs are violated, regardless of whether actual protected sites are damaged. If burials are involved, all applicable state and federal Native American burial laws and regulations also apply.

Damage to archaeological sites may result in additional archaeological work that necessitates construction delays.

When damage occurs, the DEBC prepares a Report of Construction Impacts to Cultural Resources. The DEBC certifies this report and includes it in the project files. The DEBC sends copies of this report to Headquarters Division of Construction and to the CSO Chief. [Exhibit 5.13](#) contains guidance on completing the Report of Construction Impacts. Violation of ESAs must be reported to SHPO when they occur; they are also reported in the Section 106 PA Annual Report. Annual reports are discussed in [Chapter 2 Section 2-5.6](#). [Section 5-10](#) discusses situations in which a violation of an ESA results in a "discovery" situation.

5-8 ARCHAEOLOGICAL DATA RECOVERY (PHASE III)

The potential contribution of a prehistoric site to archaeological research can be preserved, at least in part, through an excavation program designed to recover the materials that constitute important data. This research program is referred to as data recovery, or a Phase III study. Under 36 CFR §800, as revised January 11, 2001, data recovery at an archaeological site is no longer the basis for a finding of "no adverse effect" to the site. However, data recovery continues to be an important measure to mitigate adverse effects, when avoidance of impacts is not feasible.

The data recovery (or Phase III) study consists of:

- Preparation of a proposal for fieldwork and analysis.
- Fieldwork.
- Laboratory work and analysis.
- Reporting the study's results.

Phase III excavations are intended to capture information that will be lost as a result of the project, whether federal undertaking or state-only project. Therefore, Phase III excavations are confined to the direct APE, unless otherwise indicated in a data recovery plan being implemented under the terms of the MOA for the undertaking. The Data Recovery Report documents the contribution of the site to regional research and completes the archaeological portion of Section 106 compliance and/or CEQA mitigation commitments. Increasing emphasis is being given to the importance of disseminating the results of data recovery programs beyond professional archaeological audiences, directly to the interested public.

Some of the methods that have been used to achieve this goal include:

- 1) Public visits and media coverage during data recovery excavations.
- 2) Presentations to school, avocational, Native American, and local community groups.
- 3) Preparation of exhibits, web sites, booklets, and videos.

Such public involvement measures must take into account confidentiality and safety requirements.

TIMING OF DATA RECOVERY IN RELATION TO PROJECT FUNDING AND SCHEDULE

Due to the nature of project funding, the Phase III process does not occur in one continuous series of events. Pre-construction dollars fund the initial Data Recovery Plan (DRP), which documents the scope and character of the proposed Phase III study. This DRP (as well as any other documents designed to avoid and/or resolve adverse effects, such as an ESA Action Plan, a Public Outreach Plan, or a Monitoring Plan) is typically attached to an MOA signed by FHWA and SHPO (as described at [36 CFR §800.6\[b\]](#) and [Section 106 PA Stipulation XI](#)). An executed (signed) MOA must be completed prior to issuing the final environmental document for the project. Often, a significant period of time lapses before funding is secured for the project. Once the project is funded, the Phase III process begins again. At this point the DRP may be supplemented with additional details (especially cost estimates and more detailed work plans) to serve as the Phase III Proposal. A Phase III Proposal is not mandatory for all projects but may be prepared at the discretion of the Caltrans PQS, depending on the amount of time that has lapsed since preparation of the initial DRP, the thoroughness of the original DRP, or on changes that may have occurred since it was prepared. The Phase III Proposal would contain more specific information (e.g., costs, schedule, permitting, etc.) than the DRP. Alternatively, when the DRP contains all the specifics required for a Phase III proposal and the plan is being implemented shortly after preparation, then an additional document may not be required and the DRP can serve as the Phase III proposal.

The actual Phase III fieldwork commences after the final approval of the project environmental document but before project construction. The DEBC submits a letter report certifying successful completion of fieldwork to the Division Administrator, FHWA California Division, within five (5) days of the termination of pre-construction field activities. Submittal of this letter report signals that construction can begin. Typically, the Data Recovery Report itself is produced during or after project construction.

As noted in [Exhibit 2.3](#), the time frame for a Data Recovery program, from initiation of the field study to the final report, averages 18 months, with 12 months generally the minimum. The different characteristics of archaeological sites can shorten or extend these estimates.

While Caltrans PQS may conduct Phase III studies, the work is frequently contracted out to academic institutions or consultants. This is because the complexity and comprehensiveness of required studies are beyond the time availability of in-house staff. [Exhibit 1.5 Table 2](#) shows the PQS levels required for individuals functioning as Principal Investigators, Crew Chiefs, and Crew Members on a data recovery investigation.

One means of reducing the amount of Phase III data recovery required is to cap a site with culturally sterile fill. Phase III excavations should be conducted prior to capping to recover a reasonable record of what will be buried. This avenue is appropriate only if no further impact will occur to the site; otherwise, full data recovery is appropriate. This procedure is in accordance with Principals of the ACHP's 1999 [Recommended Approach for Consultation on Recovery of Significant Information from Archeological Sites](#). Although the CEQA Guidelines allow for capping sites without prior excavation, it is Caltrans' practice to excavate all sites to recover a sample before capping the site.

5-8.1 DATA RECOVERY PLAN

A Data Recovery Plan (DRP) is prepared as an attachment to the Finding of Effect and/or MOA for the project for federal undertakings, and as part of the HRCR for state-only projects. For federal undertakings the DRP serves to obtain concurrence from FHWA and SHPO that the objectives and scope of the proposed Phase III study are appropriate mitigation measures. See [Chapter 2](#) Sections 2-3.9 and 2-3.10 for further guidance on consulting with FHWA and SHPO on resolution of adverse effect and MOAs. The Data Recovery Plan contains less detail on fieldwork, laboratory work, and costs than is appropriate in an excavation proposal. [Exhibit 5.6](#) provides guidelines for preparing the DRP. The DRP also should follow the guidance in Section 106 PA [Attachment 6](#), particularly when the site is eligible for inclusion in the National Register solely for its information potential (Criterion D).

5-8.2 HEADQUARTERS REVIEW OF MITIGATION MEASURES COSTING \$500,000 AND ABOVE

Data Recovery Plans, Treatment Plans, excavations and other proposed mitigation measures that identify costs of \$500,000 and above *for the undertaking as a whole* must be reviewed by the CSO Chief, under delegation by the Chief, Division of Environmental Analysis.

The CSO Chief will complete the review within fifteen (15) working days from receipt of the mitigation documentation. This review is intended to provide independent analysis to ensure that the mitigation is cost effective and commensurate to the scope of the undertaking, the type and significance of the historic properties, and that the Data Recovery Plans are consistent with the requirements of [Section 106 PA Attachment 6](#). The District Environmental Branch Chief will take the CSO Chief's comments into consideration *prior* to approving mitigation costs of \$500,000 and above.

5-8.3 REVIEW, APPROVAL, AND DISTRIBUTION OF DRP

PEER REVIEW OF DRP

See [Section 5-13](#) for guidance on the peer review process and documentation, review times, approvals and document distribution. Fifteen (15) working days are normally allowed for peer review, however up to 20 working days may be necessary for reviewing draft DRPs on projects involving numerous resources.

Caltrans PQS certified at the Principal Investigator level must peer review the draft DRP. Caltrans PQS carefully review DRPs prior to submission to FHWA and SHPO to ensure timely consideration and concurrence by those agencies. The DRP is peer reviewed to ensure that the plan:

- Addresses appropriate regional research concerns.
- Clearly defines the study goals.
- Specifies a realistic level of effort and timeline to meet those goals.

The District HRC also should forward the draft DRP to permitting agencies (e.g., USFS, BLM) for review, as well as to appropriate Native American groups and other consulting parties. This is to ensure adequate Section 106 consultation, as required under [36 CFR §800.6](#) and [Section 106 PA Stipulation XI](#) (“Resolution of Adverse Effects”). Experience suggests that 20 to 30 working days or more may be necessary for review on projects involving coordination with outside agencies (see [Section 5-10](#), “Archaeological Study Permits”).

APPROVAL AND DISTRIBUTION OF DRP

Following peer review, and any necessary revisions, the report preparer signs the title page of the final DRP. If a Caltrans PQS certified at the Principal Investigator level has not prepared the plan, then the responsible PQS Principal Investigator indicates review and *approval* by signing the title page. Finally, the DEBC reviews and formally approves the DRP by signing the title page.

For federal undertakings, the District HRC sends

- One copy of the approved DRP to FHWA for forwarding to SHPO as part of the MOA package for resolving adverse effects. When the proposal is to conduct data recovery on historic properties significant exclusively under National Register Criterion D, pursuant to Section 106 PA Stipulation X.C.2, then the Plan is forwarded simultaneously to both the FHWA and the SHPO. *After FHWA and SHPO have concurred* (for federal undertakings), or, for state-only projects, *after* the DEBC has approved the final DRP, the District HRC provides:

- One copy of the approved DRP to CSO Section 106 Branch Chief.
- Additional copies of the approved DRP, distributed in accordance with commitments made in the Finding of Effect, or Memorandum of Agreement concerning the distribution of the report.
- If Native Americans have been consulting parties they get a copy concurrent with the SHPO submittal, unless the Tribe has indicated it does not want a copy

[Exhibit 2.11 Table B](#) provides additional information on the distribution of data recovery documents. The transmittal letter to FHWA documents that commitments concerning the distribution of the report that were made in the Finding of Effect or Memorandum of Agreement have been fulfilled. A copy of the FHWA transmittal letter also should be included with the transmittal memo to the CSO Section 106 Branch Chief.

5-8.4 PHASE III PROPOSAL

The Phase III Proposal is primarily an in-house document that builds on the previous Phase II study (if one occurred) and on the Data Recovery Plan; it may reference appropriate portions of those documents or include them as attachments, if they have been adequately developed. In some cases (such as when a long period of time has elapsed since completion of the DRP) it may be desirable and/or necessary to develop a significant amount of new content for the Phase III Proposal. In this case, further consultation under an MOA *may* be required. In general, however, the Phase III Proposal will differ from the DRP mostly in that it will include the specifics of personnel, schedule, and cost. [Exhibit 5.7](#) provides guidelines for preparing the proposal.

District Caltrans PQS also should inform the project biologist of the proposed Phase III activities to ensure that no impacts to significant biological resources would result from archaeological excavation.

5-8.5 REVIEW, APPROVAL, AND DISTRIBUTION OF PHASE III PROPOSAL

PEER REVIEW OF PHASE III PROPOSAL

See [Section 5-13](#) for guidance on the peer review process and documentation, review times, approvals and document distribution.

Caltrans PQS certified at the Principal Investigator level must peer review the draft Phase III Proposal. Caltrans PQS carefully review Phase III Proposals prior to submission to FHWA and SHPO to ensure timely consideration by

those agencies. The Phase III Proposal is peer reviewed to ensure that the proposal:

- Addresses appropriate regional research concerns.
- Clearly defines the study goals.
- Specifies a realistic level of effort and timeline to meet those goals.

The District HRC also should forward the draft proposal to permitting agencies (e.g., USFS, BLM), as well as to appropriate Native American groups and other consulting parties. The draft proposal forwarded to them should acknowledge that the key elements of the proposal already have been solidified through the project MOA (signed by the consulting parties) and the DRP, which should be attached to the draft Phase III Proposal. A minimum of fifteen (15) working days is allowed for peer review, with longer periods allowed at the discretion of the DEBC. Experience suggests that 30 working days or more may be necessary for review on projects involving numerous resources or coordination with outside agencies (see [Section 5-11](#), “Archaeological Study Permits”).

APPROVAL AND DISTRIBUTION OF PHASE III PROPOSAL

Following peer review and any necessary revisions, the report preparer signs the title page of the final Phase III Proposal. If a Caltrans PQS certified at the Principal Investigator level has not prepared the plan, then the responsible PQS Principal Investigator indicates review and *approval* by signing the title page. Finally, the DEBC reviews and formally approves the Phase III Proposal by signing the title page.

For federal undertakings, the District HRC sends

- One copy of the approved Phase III Proposal simultaneously to FHWA for forwarding to the SHPO if an MOA to resolve adverse effects has not yet been completed, and if SHPO has requested a copy. If it has, then copies are distributed in accordance with the provisions of the MOA. *After FHWA and SHPO have concurred* (for federal undertakings), or, for state-only projects, *after* the DEBC has approved the final Phase III Proposal, the District HRC provides:
- One copy of the approved Phase III Proposal to CSO Section 106 Branch Chief.
- Additional copies of the approved Phase III Proposal, distributed in accordance with commitments made in the Finding of Effect, or Memorandum of Agreement concerning the distribution of the report.
- If Native Americans have been consulting parties they get a copy concurrent with the SHPO submittal, unless the Tribe has indicated it does not want a copy

The transmittal letter to FHWA should state that the key elements of the proposal already have been solidified through the project MOA (signed by the consulting parties) and the DRP, which should be attached to the draft Phase III Proposal. A copy of the FHWA transmittal letter also should be included in the transmittal memo to the CSO Section 106 Branch Chief.

5-8.6 FIELDWORK, LABORATORY ANALYSIS, AND CURATION

Intensive fieldwork and detailed laboratory analyses often are needed to realize the objectives of the data recovery program. Conversely, work also may be more narrowly framed than in an evaluation program because it builds on the previous Phase II testing and focuses on the specific research questions identified for the data recovery program. Typically, the data recovery program also focuses on a more limited portion of the site; this also may narrow research questions.

Field and laboratory procedures will follow those defined in the Phase III Proposal, with appropriate allowance for unexpected information opportunities or problems that may arise.

Recovered materials are to be curated at an appropriate repository in accordance with [36 CFR Part 79, "Curation Of Federally Owned And Administered Archaeological Collections"](#), and OHP's ["Guidance for the Curation of Archaeological Collections"](#).

5-8.7 DATA RECOVERY REPORT

Data recovery is archaeological research undertaken to mitigate the adverse effects of a proposed project. The final report presents the contributions this excavation has made toward creating a more complete picture of regional prehistory. Future avenues for research also should be identified.

Whereas archaeological survey and evaluation reports primarily are addressed to review agencies, Data Recovery Reports primarily are addressed to those interested in the research. For this reason, more flexibility is appropriate in the way in which data recovery results are presented. Guidelines for preparing the Data Recovery Report are provided in [Exhibit 5.8](#), but modifications of these guidelines that would facilitate appropriate dissemination of the study results should be considered, in consultation between the report author and prospective peer reviewers.

Prepare a revised archaeological site record that documents the changed information about the site as a result of the Phase III studies. The District HRC sends a copy of this revised record to the appropriate CHRIS Information Center.

5-8.8 REVIEW, APPROVAL, AND DISTRIBUTION OF DATA RECOVERY REPORT

PEER REVIEW OF DATA RECOVERY REPORT

Caltrans PQS certified at the Principal Investigator level must peer review the draft Data Recovery Report. Caltrans PQS carefully review these reports prior to submission to FHWA and SHPO to ensure timely consideration by those agencies. The Data Recovery Report is peer reviewed to ensure that the report:

- Adequately documents all aspects of the Phase III investigations.
- Addresses the identified research goals.
- Presents its conclusions in a clear and logical manner.

In *rare* circumstances, members of the archaeological community outside Caltrans may peer review draft Data Recovery Reports. The peer reviewers are selected for their regional and/or specialized expertise. The DEBC makes the decision to submit the report for outside peer review.

See [Section 5-13](#) for guidance on the peer review process and documentation, review times, approvals, and document distribution.

APPROVAL AND DISTRIBUTION OF DATA RECOVERY REPORT

Following peer review and any necessary revisions, the report preparer signs the title page of the final Data Recovery Report. If a Caltrans PQS certified at the Principal Investigator level has not prepared the report, then the responsible PQS Principal Investigator indicates review and *approval* by signing the title page. Finally, the DEBC reviews and formally approves the Data Recovery Report by signing the title page.

For federal undertakings, the District HRC sends:

- One copy of the approved Data Recovery Report to FHWA and SHPO in accordance with the commitments made in the MOA. After the DEBC has approved the final report, the District HRC provides:
- One copy of the approved Data Recovery Report to CSO Section 106 Branch Chief.
- One copy of the approved Data Recovery Report to the regional CHRIS Information Center.
- Additional copies of the approved Data Recovery Report in accordance with commitments made in the Finding of Effect, Data Recovery Plan, or Memorandum of Agreement concerning the distribution of the report

- If Native Americans have been consulting parties they get a copy concurrent with the SHPO submittal, unless the Tribe has indicated it does not want a copy

[Exhibit 2.11 Table B](#) provides additional information on the distribution of data recovery documents. The transmittal letter to FHWA documents that commitments concerning the distribution of the report that were made in the Finding of Effect, Data Recovery Plan, or Memorandum of Agreement, have been fulfilled. A copy of the FHWA transmittal letter also should be included in the transmittal memo to the CSO Section 106 Branch Chief.

See [Exhibit 2.18](#) for Caltrans policies regarding the publication and external distribution of reports.

5-8.9 OTHER DATA RECOVERY COMMITMENTS

Some data recovery programs include public information elements such as site visits, lectures, exhibits, or publications. The steps taken to fulfill these commitments, and the degree of success in meeting their objectives, should be documented all parties to the data recovery program, including FHWA, SHPO, and Native American groups. Appropriate means of documentation may include memoranda, letters, or formal reports. See [Exhibit 2.18](#) for Caltrans policies regarding the publication and external distribution of reports.

5-9 COORDINATING CONSULTANT STUDIES

Archaeological studies are often conducted for Caltrans by academic institutions, other agencies, or contracted private consultants, with a District or CSO archaeologist as coordinator. If CSO is participating in the administration of the archaeological study, it may be appropriate that CSO personnel also coordinate the fieldwork, so that they can develop a better understanding of the nature of the resource involved.

The archaeological coordinator acts as a liaison between Caltrans and the academic institution, other agency, or private consultant. The coordinator must have a thorough understanding of the scope and goals of the work and the requirements of the contract. The coordinator's in-the-field contact with the consultant provides first-hand knowledge of the personnel and methods involved. When any schedule slips or speed-ups are identified, there is an opportunity to initiate consultation and negotiation, if changing field situations demand it. *The archaeological coordinator, however, does not supplant the consultant's field director in matters of professional judgment, unless violations of standard professional practices threaten the credibility of the final report.* Refer any unre-

solved differences between the coordinator and the field director to the Caltrans contract manager and the consultant's principal investigator.

Consultant-prepared Archaeological Survey Reports, XPI Proposals and Reports, Archaeological Evaluation Proposals and Reports, Data Recovery Plans, Phase III Proposals, and Data Recovery Reports are submitted to the District Environmental Branch and/or Headquarters CSO for PQS and DEBC review. Caltrans has a minimum of fifteen (15) working days for the review (see [Section 5-13](#)). The Caltrans DEBC will notify the consultant of document approval or requested revisions.

5-10 CONSTRUCTION MONITORING AND POST-REVIEW DISCOVERIES

5-10.1 EFFECTIVE MONITORING

Despite Caltrans' efforts to identify archaeological properties, significant archaeological resources may be uncovered as grading occurs at a known site or at a previously inaccessible location. An archaeologist may be assigned to monitor construction work for the purpose of identifying and evaluating such newly discovered resources. *Monitoring is not a substitute for adequate pre-construction identification efforts.*

Effective monitoring requires that the archaeologist work closely with Caltrans' and the contractor's field personnel, and in some cases with Native American monitors. All participants need to understand clearly:

- The nature of the archaeological concerns at the location.
- Various participants' responsibilities.
- Construction schedules and procedures.
- The chain of command for dealing with any new archaeological discoveries.

A monitoring plan should discuss chain of command and decision thresholds for what constitutes an archaeological property.

5-10.2 PLANNING FOR POST REVIEW DISCOVERY

If during the identification phase, no eligible properties are identified despite a thorough level of effort appropriate to the scope of her project's potential effects, yet the area remains sensitive for buried deposits, a Discovery Plan is advisable. The plan would not be submitted with the HPSR for review. Rather,

in the event historic properties are discovered during construction, it would be forwarded to the SHPO and any consulting parties, in accordance with [Section 106 PA Stipulation XV.B](#).

In the rare cases where monitoring may be necessary as a substitute for prior identification (such as in highly sensitive but inaccessible areas), FHWA and SHPO must enter into an MOA, or concur in a finding of No Adverse Effect that stipulates a monitoring or discovery plan, in accordance with [Section 106 PA Stipulation XV.A](#). In most cases, development of a MOA will add significant time to the project schedule, when compared to carrying out proper identification efforts. [Exhibit 5.11](#) provides guidance on effective monitoring and planning for late discoveries.

5-10.3 POST-REVIEW DISCOVERY – NO PLAN IN PLACE

When a discovery occurs and there is *no plan* in place, Caltrans must follow [Section 106 PA Stipulation XV.B](#). [Exhibit 5.12](#) contains guidance on the procedures to use when there is a post-review discovery without a plan in place.

5-10.4 SAFETY CONCERNS WHILE MONITORING

Safety concerns are particularly important in construction situations. The archaeological monitor must be adequately aware of the operating methods of heavy equipment, adjacent traffic conditions, safety policy with respect to exposed cuts and trenches, and hazardous materials potentially present at the site. See [Section 5-3.6](#) for guidance on field safety.

If significant archaeological remains are encountered, it may be necessary temporarily to divert construction work away from the location of the finds, to allow the finds to be properly assessed, documented, and/or recovered. The monitor contacts the Resident Engineer (RE) and the RE will redirect any work.

Because delays may cause serious impacts to the construction schedule, the archaeological monitor should have a clear understanding of the thresholds for such discoveries.

5-10.5 RECOVERY OF ARTIFACTS DURING CONSTRUCTION

Contingency arrangements may include having the appropriate excavation gear available at the site and having a plan to mobilize additional archaeological assistance.

Any archaeological specimens that are recovered will require analysis, reporting, and curation. In part for this reason, it is generally undesirable to recover materials that do not have interpretive significance, or that are redundant with specimens previously documented for the site.

There is no standard Caltrans format to report on construction monitoring. The amount of documentation that is appropriate will vary. At a minimum, the monitor should prepare a memorandum to the files documenting that the mandated monitoring was performed. The memorandum should include the following information:

- 1) Archaeological monitors and their qualifications.
- 2) Dates of monitoring.
- 3) Portions of the project area for which monitoring was done.
- 4) Conditions of work.
- 5) Results in terms of any archaeological remains encountered.
- 6) Any other relevant observations.

If significant artifacts or features are encountered and are either documented or recovered, a more formal and extensive report is appropriate, following the general guidelines of the Data Recovery Report ([Exhibit 5.8](#)).

5-11 ARCHAEOLOGICAL STUDY PERMITS

Permits of one type or another are required before conducting archaeological studies on public or private lands. The process for obtaining permits varies considerably, depending on factors such as whether the land is public or private, what other agencies are involved, and within which Caltrans district the project is located. Typically, Caltrans cultural resources staff or their contracted consultants obtain permits for public lands, while Caltrans Right of Way agents will obtain permission to enter for private lands.

The primary federal agencies requiring permits for Caltrans projects are:

- Bureau of Land Management (BLM).
- United States Forest Service (USFS).
- National Park Service (NPS).
- Bureau of Indian Affairs (BIA) issues ARPA permits for excavations on tribal lands.

State agencies that may require permits include:

- California Coastal Commission (CCC).
- Department of Parks and Recreation (DPR).

- Department of Fish and Game (DFG).

Table 5-1 outlines the permits required and the processing time to expect.

TABLE 5-1

GOVERNMENTAL PERMITS				
	SURVEY	LEAD TIME*	EXCAVATION	LEAD TIME*
Federal				
USFS	Special Use Permit	4-6 weeks	Special Use Permit**	8-10 weeks
NPS	Special Use Permit	4 weeks	Special Use Permit**	8 weeks
BLM	Fieldwork Authorization	1-2 weeks	Cultural Resource Use Permit** and Fieldwork Authorization	8-10 weeks
State				
DPR	DPR 412	4-6 weeks	DPR 412	8-10 weeks
other	(contact agency)		(contact agency)	
<p>* listed times depend on the schedules of personnel in outside agencies and can be longer **these permits are issued under and satisfy the ARPA requirements USFS = U.S. Forest Service; NPS = National Park Service; BLM = Bureau of Land Management; DPR = California Department of Parks and Recreation.</p>				

The permitting agency reviews permit applications to ensure that the application is complete, the proposed work is appropriate, and the personnel, organization, and curation facility are qualified. Individuals who meet Caltrans PQS qualifications for Principal Investigator should qualify to direct excavations under these permits.

5-11.1 FEDERAL PERMIT LEGISLATION

Permits for archaeological studies on federal land may be issued in accordance with the following legislation and implementing regulations, depending on the agency involved:

- *Organic Administration Act of June 4, 1897 (Chapter. 2, 30 Stat 11, as amended, 16 USC §473-475, §477-482, §551)* in part directs the Secretary of Agriculture to protect National Forests and regulate their occupancy and use. The permit is issued under the provisions of [16 USC §551](#).
- *Antiquity Act of 1906 (Chapter 3060; P.L. 59-209; 34 Stat 225; 16 USC §431-433; 43 CFR §3)* This act in part ([16 USC §432](#)) directs the Secretaries of Interior, Agriculture, and War to grant permits subject to the rules and regulations they may prescribe for the examination of ruins, the excavation of archaeological sites, and the gathering of objects of antiquity on lands under their respective jurisdictions. This act's authority to regulate the taking of archaeological materials has been re-

placed by the Archaeological Resources Protection Act (see below) because of conflicting federal circuit court decisions as to the validity of the Antiquity Act's provisions regarding cultural items. No permits should actually be issued under the auspices of this act.

- *The Federal Land Policy and Management Act of 1976 (FLPMA)* (P. L. 94-579; 43 USC §1701-1784) provides in part for the periodic and systematic inventory of public lands and their resources, and the management of the resources in a manner that will protect the quality of the land. The permit is issued under [43 USC §1732](#) and [P.L. 94-579 Section 302\(b\)](#).
- *Archaeological Resources Protection Act of 1979 [ARPA]* (P. L. 96-95; 93 Stat 721; 16 USC §470 aa-11; 36 CFR §229; 43 CFR §7) provides primarily for the protection of archaeological resources on federal lands and Indian lands. A permit is required for the surface collection and/or excavation of sites 100 years or older ([16 USC §470cc](#)). The implementing Uniform Regulations for ARPA were published in the *Federal Register*, Volume 29, No. 4, Friday January 6, 1984, with supplemental regulations issued in the *Federal Register*, Volume 52, No. 55, Monday, March 23, 1987. Identical regulations for the different federal landholding agencies appear under different titles of the Code of Federal Regulations; thus the implementing regulations for the US Department of Defense is [32 CFR §229](#), and the regulations for the BLM and the NPS (Department of the Interior) can be found under [43 CFR §7](#).

All ARPA permit applications that involve collection and/or excavation are submitted by the permitting agency to the Native American group for whom the site or area may have cultural or religious significance for a 30-day review and comment period. The permitting agency will also require additional notification and consultation if the activity proposed may result in the excavation of human remains, funerary objects, sacred objects, or objects of cultural patrimony as provided for in subpart B of the Native American Graves Protection and Repatriation Act (NAGPRA) regulations ([43 CFR §10](#)).

BUREAU OF LAND MANAGEMENT (BLM) CULTURAL RESOURCE USE PERMIT

The BLM issues permits for two levels of study. The non-collection survey/recordation permit, issued under FLPMA, authorizes non-disturbing pedestrian survey and limited subsurface probing for mapping purposes only (e.g., determination of boundaries). No collection of artifacts, except isolated artifacts not associated with an archaeological site, is allowed under this permit. To remain in compliance with the permit, Caltrans must provide copies of any reports discussing work conducted under such permits to the agency.

Caltrans has a statewide non-collection survey/recording permit for survey on BLM lands. CSO maintains a list of staff who are identified on the permit. The archaeologist conducting the survey must notify the appropriate BLM Field Office Manager before any fieldwork begins and will be required to submit a fieldwork authorization request. The authorization to conduct fieldwork may be granted immediately, or it may take one to two weeks (see below).

An ARPA permit is issued on a project-specific basis for activities that may disturb the research potential of the site. These activities include limited testing, excavation, and collection. Two copies of the application, including supporting documentation, are submitted to the BLM State Director, California State Office, Sacramento. A complete copy also should be forwarded to the appropriate (local) Field Office at this time. The BLM Field Office submits the application package to the designated Native American group for a 30-day review period. Caltrans, as the applicant, should anticipate a minimum period of 8-10 weeks before an ARPA permit is granted. This allows for review by the Native Americans and the BLM and for inter-agency transmittals of the application.

The BLM permitting process involves two levels of approval:

- 1) For *survey projects*, the archaeologist conducting the survey submits the Fieldwork Authorization form only to BLM staff at the local level (i.e., the appropriate BLM Field Office Manager).
- 2) For *collection or excavation projects*, the archaeologist conducting the work must submit an application for the Cultural Resource Use (ARPA) Permit to the state headquarters of the BLM.

If Caltrans is contracting the work out, the contractor conducting the work must be the applicant for the Cultural Resource Use Permit. It is strongly recommended that a copy of the application also be forwarded to the local BLM Field Office at this time, in order to keep local staff apprised of the status of the project. The Deputy State Director, Division of Natural Resources, then signs the permit.

Once the permit is issued, the applicant must submit another Fieldwork Authorization form to the appropriate BLM Field Office before initiating fieldwork. This serves to ensure that the Field Office is properly notified and that the schedule of the permitted activity does not conflict with other concurrent activities or conditions in the field. The Field Office Manager is notified by the applicant submitting a Fieldwork Authorization request form (which describes the personnel involved, location, and period of the proposed fieldwork). The appropriate BLM Field Office Manager must authorize any fieldwork under this permit before fieldwork commences.

U.S. FOREST SERVICE SPECIAL USES PERMITS

The USFS issues permits under the Organic Administration Act of 1897 or ARPA, as outlined in [36 CFR §251.50](#) *Special Uses Permits*. The procedures and requirements for obtaining a permit vary between Forests, as does Forest organizational structure.

Special Use Permits are issued for two levels of study: (1) survey (including limited subsurface testing for boundary definition); and (2) surface collection, testing, or data recovery excavations. For either type of permit, the lead archaeologist initiates the application process by contacting the appropriate Forest Archaeologist.

Either the Forest Supervisor or the District Ranger reviews and approves the application for a survey permit. A review period of 30 days can be anticipated.

The Forest submits the permits for surface collection or excavation to the Pacific Southwest Region headquarters for review, approval, and issuance of the permit. The permitting process may take several months.

The project archaeologist notifies the District Ranger of the date fieldwork will be initiated. The District Ranger approves this date in writing.

NATIONAL PARK SERVICE CULTURAL RESOURCE SPECIAL USE PERMITS

National Park Service permit requirements for surveys depend on the nature and scale of the proposed project. The NPS issues permits under ARPA for all collection or excavation. To initiate the permit process, the project archaeologist calls the appropriate Park office and the NPS Pacific West Regional Office. Two copies of an application and attachments are prepared and sent to the Pacific West Regional Director for approval. The time for processing the permit is typically four weeks for survey and eight weeks for excavations.

5-11.2 CALIFORNIA PERMIT LEGISLATION

CALIFORNIA DEPARTMENT OF PARKS AND RECREATION (DPR) PERMITS

Archaeological investigations or collection within the boundaries of units of the State Park System require a permit. This permit is issued for surveys under a DPR Resource Management Directive. Permits for excavations are issued under the provisions of [PRC §5097.5](#), which states that permission is necessary to excavate or remove any archaeological, paleontological, or historical feature situated on public lands from the agency having jurisdiction over that land.

Four copies of an "Application and Permit to Conduct Archaeological or Paleontological Investigations/Collections on Lands of the State of California (DPR 412)" are submitted to the District Superintendent or to the Supervisor of the Cultural Heritage Section. The permit is reviewed by the District Superintendent, the Supervisor of the Cultural Heritage Section, as well as by the Manager for Archaeological Collections if the requested permit is for an excavation. Review period is ten (10) working days. The Regional Director signs approval of the permit. Once the permit is granted, the project archaeologists must contact the District Superintendent or designee before beginning fieldwork.

COASTAL COMMISSION PERMITS

Archaeological excavation undertaken in the coastal zone may require a permit under the authority of the [California Coastal Act of 1976](#) (Public Resources Code, Division 20). The California Coastal Commission may issue a Coastal Development Permit for archaeological undertakings. When appropriate, the permit requirements may be waived. To determine whether such a permit is needed, the project archaeologist contacts the appropriate District Office of the Commission.

For some cities and counties the Commission has approved local Coastal Plans (LCPs). The Commission District Office can indicate whether the permit must be obtained from a local agency. Archaeological requirements for permits issued under various LCPs vary.

CALIFORNIA DEPARTMENT OF FISH AND GAME PERMITS

In rare cases, permits from the Department of Fish and Game (DFG) may be required for archaeological excavations involving streams or rivers. If an archaeological excavation is conducted in a stream or riverbed or on adjacent banks, a Section 1601 Permit may be required. When considering the use of wet screening, it should be noted that some streams are off-limits for any such use because of their sensitivity to siltation. Others have various seasonal restrictions, and still other streams have unrestricted use. If the excavation will include wet screening that allows archaeological deposits to flow into the watercourse, a Suction Dredge Permit may be required. The appropriate Fish and Game Regional Office should be contacted to determine whether a permit is needed. Contacts should be coordinated through the district biologist.

RIGHT OF ENTRY PERMITS / PRIVATE LAND OWNER PERMISSION AGREEMENTS

A District Right of Way (R/W) agent normally obtains right of entry for archaeologists and other environmental specialists conducting studies on private land. However, it is the responsibility of the project archaeologist to inform the environmental planner and/or R/W agent of their needs in this regard. Coordination between the archaeologist and the environmental planner and/or R/W agent should take place as early as possible because substantial time may be required to obtain the permits for large surveys.

The District R/W agent contacts the private landowner and seeks written permission to enter, giving the following information:

- Proposed survey or excavation activities.
- Duration of access.
- Archaeological project's potential effects on the property.

Written permission is required for all excavations, in order to protect the owners against damage or interference with possession or use of the property, and to absolve them of liability in the event of accident.

Because the owner is agreeing to specific conditions, it is important that the project archaeologist plan a field strategy as completely as possible *prior* to the R/W agent contacting the landowner, thus avoiding having to ask permission a second time to add additional activities that might be of concern to a landowner (such as use of a backhoe). If there are verbal objections to survey work, or if written permission for excavations cannot be obtained, the DEBC and the CSO Chief should be notified. It is possible to obtain entry through the Right of Eminent Domain, but this is an extreme step that is rarely used.

Archaeological materials recovered from private lands legally are the landowner's property and may be retained by the landowner. Caltrans must obtain written permission from the property owner to curate the recovered material. This issue should be addressed in the original letter requesting permission to excavate. Failure to obtain this permission will not necessarily affect achieving project compliance. However, Caltrans must try to ensure that archaeological materials will be stored properly and that they will be accessible to qualified researchers upon request. Every effort should be made to convince the landowner of the value of proper curation for all site artifacts.

5-12 ARCHAEOLOGICAL STUDIES: PRECONSTRUCTION, MAINTENANCE, EXCESS PROPERTY DISPOSAL, AND ENCROACHMENT PERMIT WORK

District Environmental Branch (DEB) responsibilities toward cultural resources and coordinating with Native American Tribes, groups or individuals are outlined in [Chapters 1](#) and [3](#). These responsibilities extend beyond project specific situations to include any Caltrans activities that have the potential to affect cultural resources. This section addresses these activities and the concomitant responsibilities of the District to ensure protection of archaeological resources.

The DEB provides archaeological studies for preconstruction and maintenance activities that involve ground disturbance within the existing right of way. Follow Caltrans archaeological procedures outlined in the preceding sections when archaeological resources are identified and the archaeological resource cannot be avoided nor can the proposed work be abandoned.

Consult the DEBC before the disposal of excess parcels and before issuing an encroachment permit to ensure environmental compliance. For excess parcels, the Branch will conduct a survey of the parcel and document the survey. For encroachment permits, environmental compliance is the responsibility of the permit applicant. The Caltrans PQS reviews the proposal of archaeological work and the resulting studies for compliance with Section 106, CEQA and PRC §5024 (when state-owned archaeological resources are involved). [Chapter 2](#) discusses the process for compliance with CEQA and PRC §5024.

5-12.1 PRECONSTRUCTION STUDIES

Section 106 compliance should be completed prior to the approval of the expenditure of any federal funds on the undertaking, or prior to the issuance of any license or permit. It is often necessary, however, to conduct project-planning studies prior to completion of Section 106 consultation. Such studies might include hazardous materials testing, soil borings, percolation tests, etc. The regulations at [36 CFR §800](#) recognize this need and allow for some flexibility in carrying out the Section 106 process. [36 CFR §800.1\(c\)](#) states that the requirement to complete the Section 106 process prior to approval of the undertaking

... does not prohibit agency official from conducting or authorizing nondestructive project planning activities before completing compliance with section 106, provided that such

actions do not restrict the subsequent consideration of alternatives to avoid, minimize, or mitigate the undertaking's adverse effects on historic properties.

Note that such activities must be nondestructive to potential historic properties and must not restrict consideration of alternatives.

When preconstruction activities that involve ground-disturbing work are necessary, the project team leader must contact the DEBC. Caltrans PQS review the proposed studies and identify any cultural resources that may be affected by the proposed work. The DEBC usually has the information needed to evaluate the potential impacts of preconstruction activities in the form of environmental analyses already conducted for the proposed construction work. An archaeological survey, however, may be needed if those analyses have not been done. Then, the Caltrans PQS may work with the Project Team Leader to redesign the preconstruction activity to avoid any effect to potential historic properties. If avoidance is not possible, the activity is subject to consultation under the [Section 106 PA](#).

5-12.2 MAINTENANCE PROJECTS

The District Maintenance Engineer is responsible for consulting with the DEBC, and the DEBC needs to continually apprise the District Maintenance Engineer of the location of resources that could be disturbed by maintenance operations. Maintenance operations that have the greatest potential for impact to archaeological resources include those activities that involve the removal, grading, and filling of material, and trenching within the right of way. An archaeological survey may be needed to identify any archaeological resources. If resources are identified, CEQA and/or PRC §5024 applies; either the resources are avoided, or the studies outlined above, are followed in order to comply with the applicable state law(s).

5-12.3 EXCESS PROPERTY DISPOSAL

Excess parcel disposal is usually subject only to state laws and regulations, but also may be subject to federal laws and regulations if a federal agency initially participated in acquiring the parcel or in associated construction. For the former, however, if the participating federal agency has since relinquished the parcel and Caltrans was reimbursed, then the disposal is treated as a state-only action.

The DEBC ensures review of *all* excess property proposed sales for environmental considerations, including the presence of archaeological resources. As

part of this review, an archaeological survey may be required. The survey is documented in an ASR.

If archaeological resources are present, conveyance of the parcel is contingent on compliance with CEQA, with PRC §5024 for state-owned parcels, and with Section 106 and Section 4(f), if applicable. Pursuant to the California Streets and Highway Code, Section 118.6, the excess parcel with an archaeological site must be offered for sale or exchange to appropriate public agencies operating parks and recreational areas *before* the parcel can be offered to the public. The prospective buyer is informed of the presence of the archaeological resource(s) and their responsibilities for obtaining the appropriate environmental compliance as a condition of the sale. The Director's Deed and Notice of Terms of Sale both need to include protective covenants that govern the preservation of the archaeological site(s). These protective covenants include: (1) "adequate restrictions or conditions [to] ensure preservation of the property's significant historic features" to satisfy Section 106 and PRC §5024; or (2) the establishment of a preservation easement to protect the site as noted in CEQA. The buyer also may proceed with additional archaeological studies to comply with state and federal law, as appropriate.

Further guidance on the laws and procedures related to the disposal of excess property that may contain archaeological sites is provided in [Exhibit 2.19](#). See also [Chapter 2 Section 2-7.9](#) and [Section 2-9](#) regarding state-owned resources.

5-12.4 ENCROACHMENT PERMITS

Caltrans PQS must review encroachment permit applications involving ground-disturbing activities to determine whether there are archaeological concerns. The DEBC determines: (1) whether an archaeological survey is needed, and (2) whether Caltrans or the applicant will conduct the survey. As with Caltrans' own surveys, the decision to survey is based on the nature of the proposed activity and the sensitivity of the location for archaeological resources.

If archaeological resources are identified, the permit holder must submit a proposal of archaeological work to be performed to the DEBC for review. The DEBC reviews the proposed work to determine whether it meets Caltrans standards. The permit holder must provide with documentation of compliance with appropriate state or federal historic preservation laws and archaeological compliance *before* the permit is issued.

Each permit is issued with General Provisions and Special Provisions that the permit holder must fully carry out. The General Provisions include the requirement that the permit holder must:

1. "Cease work" in the vicinity of any archaeological resources that are revealed

2. Notify the Permit Engineer immediately of such a find

Then, a qualified archaeologist retained by the permit holder must evaluate the situation and make recommendations to the Permit Engineer concerning continuation of work. Special Provisions may further address archaeological concerns. The DEBC may be called upon to inspect the work under a permit.

5-13 PEER REVIEW AND APPROVAL OF ARCHAEOLOGICAL DOCUMENTS

Prior to the distribution of the archaeological studies, reports and documents, there need to be *three* reviews:

- 1) District or CSO PQS, who is someone other than the author(s) of the documents, must peer review the Caltrans staff- and consultant-prepared draft documents.
- 2) District PQS must review and *approve* the final document, under the terms of the [Section 106 PA Stipulation XVI](#). For Caltrans-prepared documents, if the Caltrans PQS is certified at the appropriate PQS level, his or her signature on the final document as document preparer also signifies review for DEBC *approval*.
- 3) DEBC must review and approve the final document.

5-13.1 PEER REVIEW

Peer reviews are considered part of the report preparation process. Peer reviewers can be identified in the acknowledgement section of the archaeological documents or in a table of personnel working on the environmental studies. That is separate from PQS approval of completed documents prior to submittal, which is required under the Section 106 PA. See [Section 5-13.2](#) below.

In accordance with Caltrans Quality Assurance and Quality Control policy and the [Section 106 PA Stipulation XVI](#), Caltrans PQS certified in the relevant discipline at the Co-Principal Investigator level or higher¹ must peer review:

- Archaeological Study Reports
- Extended Phase I Proposals
- Extended Phase I Reports
- Archaeological Evaluation Proposals (formerly called Phase II proposals)
- Archaeological Evaluation Reports (formerly called Phase II reports)

¹ See [Exhibit 2.11 Table C](#)

- Data Recovery Plans
- Phase III Proposals
- Phase III Reports

Draft versions of curation agreements, monitoring plans, post review discovery plans and construction impact reports also require peer review by a Caltrans PQS Principal Investigator. Either district or CSO PQS may conduct the peer review.

If a DEBC requests peer review by another district or CSO PQS, the DEBC submits the request to the appropriate DEBC or to the appropriate CSO Branch Chief. Such reviews, whether in the district or in CSO, will be completed within fifteen (15) working days of receipt of the request. However, longer review periods may be allowed at the discretion of the DEBC. [Chapter 2 Section 2-5.5](#) discusses Caltrans internal review guidelines.

Likewise, CSO PQS certified at the Principal Investigator² level in the relevant discipline peer review the CSO-prepared draft archaeological documents. Upon approval, the CSO Branch Chief or CSO Office Chief transmits the CSO-prepared documents to the requesting DEBC. Upon receipt, the DEBC has ten (10) working days to comment on the draft document, after which it is assumed to have met with the DEBC's approval.

The process for resolving disagreements and differences of opinion regarding Caltrans or consultant-prepared findings is outlined in [Chapter 2 Section 2-11](#).

5-13.2 CALTRANS REVIEW AND APPROVAL OF ARCHAEOLOGICAL DOCUMENTS

Following peer review (whether by district or CSO PQS), and any necessary revisions based on comments received, the report preparer signs the title page of the final archaeological document and the final document is reviewed for approval by a Caltrans PQS at the appropriate level; see [Exhibit 2.11 Table C](#). If a Caltrans PQS has not prepared the document, then the responsible PQS indicates review and *approval* by signing the title page. The DEBC finally reviews and formally approves the document by signing the title page.

5-13.3 REPORT DISTRIBUTION

The District HRC is responsible for ensuring that the appropriate archaeological documents are attached to the HPSR, HRCR, or Finding of Effect, or are

² However, Co-Principal Investigators or higher may peer review ASRs.

distributed separately and that the correct number of copies is sent to CSO and others, as appropriate. [Exhibit 2.11 Table B](#) lists the copies of approved archaeological documents that are required. See [Chapter 2](#) for specific guidance on transmitting reports to FHWA and SHPO.

The district keeps a record of the peer review in its files. The transmittal memo accompanying the approved archaeological documents identifies the peer reviewers of documents. For federal undertakings, if the transmittal memo to the DEBC provides any recommendations concerning the resource, a copy of the memo is included in the package sent to the CSO Section 106 Branch Chief.

5-14 STATE-OWNED ARCHAEOLOGICAL RESOURCES

In addition to compliance with federal and state laws relative to archaeological resources, Caltrans also must comply with PRC §5024 when state-owned resources include archaeological sites that are listed or eligible for inclusion in the National Register or for registration as California Historical Landmarks. [Chapter 2 Section 2-7.9](#) contains guidance on the applicability of PRC §5024, while [Section 2-9](#) provides guidance on the documentation needed to consult with SHPO on state-owned archaeological resources.

The following table indicates the relevant section of PRC §5024 that should be cited in environmental documentation when state-owned archaeological resources are within an APE or Project Limits. Questions about the applicability of PRC §5024 to archaeological sites may be directed to the CSO Built Environment Preservation Services Branch Chief.

PUBLIC RESOURCES §5024 COMPLIANCE – ARCHAEOLOGY					
Resource Type	No PRC §5024 required	PRC §5024 required	PRC §5024(a) inventory required	Required PRC §5024(f) Notify SHPO	Required PRC §5024.5* Consult with SHPO
Archaeological resources that are not state-owned	X				
State-owned archaeological resources		X	X		
State-owned archaeological CEQA Historical Resources other than NR/CHL listed/eligible	X				
NR/CHL ineligible state-owned archaeological resources,	X				
NR/CHL listed/eligible state-owned archaeological sites		X	X	No effect No Adverse Effect Adverse Effect	N/A
* PRC §5024.5 applies only to state-owned buildings and structures on the Master List of Historical Resources. N/A: Not applicable NR: National Register of Historic Places CHL: California Historical Landmark					