

## Exhibit 2.3: Time and Effort Required for Cultural Resources Compliance

The time and effort required to complete cultural resources compliance will vary greatly depending on the nature of the project and the number and types of resources that may be impacted by it.

The table below indicates potential requirements in person-hours for the major activities in the Work Breakdown Structure (WBS)<sup>1</sup>, based primarily on the Caltrans “Workload Estimating Norms” and the Central Region Environmental Division’s September 2009 “Workload Estimating Norms, Based on WBS 10.1”.<sup>2</sup> Also included are estimates of standard person-hour requirements and elapsed schedule time for some activities, based on Caltrans’ Standard Environmental Reference Volume 2- Cultural Resources (SERv2). In estimating schedule time, it should be noted that some activities could be done at the same time and can occur in different project phases.

### ESTIMATED PREPARATION TIME (DOES NOT INCLUDE EXTERNAL AGENCY REVIEW TIME)

| WBS Task ID  | Activity / Product                           | Sched. Months | Est. Hours Standard | Est. Hours Range |
|--------------|--|---------------|---------------------|------------------|
| 150.20.30    | Conduct Initial Records/Literature Search    | 1 month       | 20 hours            | 0 – 100 hours    |
| 150.20.30    | Conduct Initial Archaeology Study            | 0 - 2 months  | 50 hours            | 10 - 100 hours   |
| 150.20.30    | Conduct Initial Built Environment Study      | 0 - 2 months  | 50 hours            | 10 - 100 hours   |
| 150.20.70    | Conduct Initial Native American Coordination | 0 - 2 months  | 50 hours            | 10 - 100 hours   |
| 165.20.05.05 | Prepare Preliminary APE Map                  | 0 – 2 months  | 48 hours            | 0 –80 hours      |
| 165.20.05.10 | Conduct Native American Consultation         | 1 month       | 80 hours            | 0 – 240 hours    |
| 165.20.05.15 | Conduct Records/Literature Search            | 1 month       | 30 hours            | 0 – 80 hours     |
| 165.20.15    | Prepare Screened Undertaking Memo            | 1 month       | 8 hours             | 0 - 10 hours     |

<sup>1</sup> WBS codes are used in the delivery of capital outlay projects; the WBS is a deliverable-oriented grouping of project elements that organizes and defines the total scope work of a project. Each descending level represents an increasingly detailed definition of a project component or phase. Project components or phases may be products or services.” (Caltrans Workplan Standards Guide, Release 11.0, 2014, p.2.)

<sup>2</sup> The tool is available only to Caltrans staff on the Caltrans Intranet.

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|              |  |                 |            |                 |
|--------------|--|-----------------|------------|-----------------|
| 165.20.05.20 | Conduct Field Survey   | 1 month         | 80 hours   | 0 - 600 hours   |
| 165.20.05.25 | Conduct Archaeological Survey  | 1 - 3 months    | 450 hours  | 0 -1200 hours   |
| 165.20.05.99 | Prepare ASR with no sites present  | 1.5 months      | 40 hours   | 0 -1070 hours   |
| 165.20.10    | Conduct Extended Phase I (XPI)   | 6 months        | 360 hours  | 0 -1576 hours   |
| 165.20.15    | Prepare ASR with sites present   | 6 months        | 300 hours  | 0 – 1070 hours  |
| 165.20.20    | Conduct Built-Environment Resources Survey   | 1 - 3 months    | 360 hours  | 0 – 720 hours   |
| 165.20.20.15 | Prepare Historical Resources Evaluation Report (HRER)  | 1 - 2 months    | 160 hours  | 0 – 320 hours   |
| 165.20.20.20 | Prepare HRER, Bridge Evaluation  | 1 - 3 months    | 20 hours   | 0 –320 hours    |
| 165.20.15    | Conduct Phase II (PII)   | 12 months       | 1200 hours | 0 - 8880 hours  |
| 165.20.25.05 | Prepare Final APE Map(s)   | 1 month         | 16 hours   | 8 – 240 hours   |
| 165.20.25.15 | Prepare HPSR / HRCR  | 1 - 2 months    | 140 hours  | 8 – 300 hours   |
| 165.20.25.20 | Prepare FNAE with Standard Conditions  | 1 - 2 months    | 80 hours   | 8 – 160 hours   |
| 165.20.25.20 | Prepare FNAE without Standard Conditions   | 1 - 3 months    | 320 hours  | 8 – 400 hours   |
| 165.20.25.20 | Prepare Finding of Adverse Effect (FAE) with Standard Mitigation Measures <sup>3</sup> (for PRC 5024 only) | 1 - 3 months    | 80 hours   | 8 – 160 hours   |
| 165.20.25.20 | Prepare FAE  | 3 – 6 months    | 750 hours  | 0 – 800 hours   |
| 165.20.25.30 | Prepare MOA  | 1.5 - 24 months | 120 hours  | 0 - 1240 hours  |
| 165.20.25.25 | Prepare Data Recovery Plan/Treatment Plan  | 12 months       | 640 hours  | 80 - 1400 hours |
| 165.25.10    | Prepare Section 4(f) Determination   | 1 - 3 months    | 80 hours   | 30 – 500 hours  |
| 235.05.05.05 | Conduct Historic Built Environment Mitigation  | 15 months       | 80 hours   | 40 - 1000 hours |
| 235.05.10    | Conduct Phase III (PIII)   | 15 months       | 160 hours  | 0 - 1768 hours  |

<sup>3</sup> Used only for Caltrans-owned archaeological resources that have been determined or assumed eligible for the National Register of Historic Places or for registration as California Historical Landmarks and are not on the Master List of Historical Resources.

The WBS codes are specific to project phases. As depicted in the table, the most common codes for cultural resources activities begin with 150, 165 and 235, which correlate to the following project phases:

- Phase K—Project Initiation: WBS Code 150 and its number extensions, e.g. 150.20, 150.20.30 etc. (develop project initiation document).
- Phase 0—Project Approval and Environmental Document: WBS Code 165 (perform environmental studies and prepare environmental document).
- Phase 1—Plans, Specifications and Estimates (PS&E): WBS Code 235 (mitigate environmental impacts).