



Bridge Design Details 1.4 June 2025

Test Boring Layout

Geotechnical Services (GS) will draft a Test Boring Layout (TBL) sheet. GS will include the North Arrow, geolocated test boring locations (test boring name identifications and symbols identifying the type of drilling/test methods), the scale (e.g., 1" = 40'), and the names of the appropriate GS personnel in the border.

After GS completes the Log of Test Borings (LOTB) and TBL Quality Control processes, GS will deliver the corresponding, finalized (i.e., signed and stamped) LOTBs and unsigned TBL to Bridge Design. The finalized LOTBs and unsigned TBL should be delivered prior to Type Selection.

Bridge Design will draft/superimpose the alignment(s), support centerlines, and/or other project features, and include the names of the appropriate Bridge Design personnel and any other appropriate information in the border. Bridge Design will NOT draft the Borehole Location Table or determine and provide Stations/Offsets. Bridge Design will finalize (i.e., sign and stamp) the TBL during the Final Structure Plans, Specifications & Estimates process.

For an example of a TEST BORING LAYOUT sheet, see Attachment 1A.C.1.

Log of Test Boring Modifications

Typically, once the LOTB sheets have been signed by the Professional Geologist, no modifications shall be made to the plan sheet, except for sheet numbering.

Other modifications to the LOTB sheet(s) may be necessary including adding final alignments after early drilling has been done and final support locations to help with the identification of the location of LOTBs.

If significant changes are required, the following procedure shall be implemented:

- The Project Engineer will send a request for changes to the Professional Geologist whose stamp is on the sheet.
- The Professional Geologist will concur with the proposed changes, and the Geotechnical Services staff will make the revisions.
- The revised LOTB sheet(s) CADD file(s) will then be placed into a directory, and an email will be sent to the requesting engineer notifying him/her of the completed LOTB and its location. A new signature authorization form shall be provided with the revised LOTB sheet(s).

For an example of a LOG OF TEST BORING sheet, see Attachment 1A.C.2.



Log of Test Boring from Image of As-Built Plans

If AS-BUILT LOTB sheet(s) from an existing structure or previously created LOTBs from an archived project are referenced or used during the foundation investigations, the Professional Geologist may elect to include them in the new contract plans. If included, the Professional Geologist will send a TIFF image copy of the As-Built LOTB sheet(s) to be used to the Project Engineer.


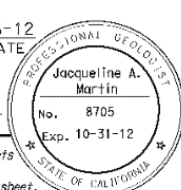
When As-Built(s) are used for new contract plans such as LOTB(s), the following procedures shall be followed:

- As-Built LOTB sheet(s) used for information only shall have a statement to that effect. This NOTE should be added using the standard decal.

DIVISION OF ENGINEERING SERVICES - MATERIALS AND GEOTECHNICAL SERVICES	
As-Built Log of Test Borings sheet is considered an informational document only. As such, the State of California registration seal with signature, license number and registration certificate expiration date confirm that this is a true and accurate copy of the original document. It does not attest to the accuracy or validity of the information contained in the original document. This drawing is available and presented only for the convenience of any bidder, contractor or other interested party.	

Here is another example:

DIVISION OF ENGINEERING SERVICES - GEOTECHNICAL SERVICES					
DIST.	COUNTY	ROUTE	POST MILE-TOTAL PROJECT	Sheet No.	Total Sheets
01	DN	199			

			
PROFESSIONAL GEOLOGIST William R. Little No. 7473 Exp. 03-31-2025		PROFESSIONAL GEOLOGIST Jacqueline A. Martin No. 8705 Exp. 10-31-12	

MIDDLE FORK SMITH RIVER BRIDGE (REPLACEMENT)		
LOG OF TEST BORINGS 16 OF 16		
UNIT: 3650	CONTRACT No. 01-0N2904	BRIDGE No. 01-0080
PROJ. No. & PHASE: 0123000202-1		
AS-BUILT VERT DATUM: NGVD29	Sheet 60 of 63	

NOTE:
The borings on this sheet are relevant to the present project and are shown here for information purposes only.

This LOTB sheet was prepared in accordance with the Caltrans Soil & Rock Logging, Classification, & Presentation Manual (2010 Edition). See 2010 Standard Plans A10F and A10G for Soil Legend, and A10H for Rock Legend.

Figure 1.4.1 Example of LOTB "Information Only" Note

For a full example of an As-Built LOTB sheet, see Attachment 1A.C.3.