



CITY of CHICO

COMMUNITY DEVELOPMENT DEPARTMENT BUILDING DIVISION

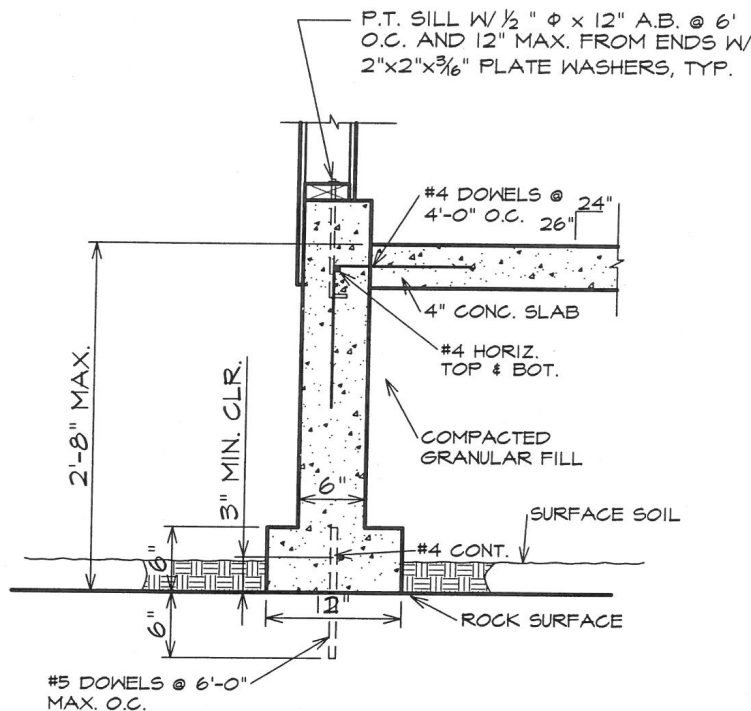
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Lava Cap Pinning Single Story Residential Footings

If lava is encountered during excavation at building site, the following pinning detail may be used when approved by city and design professional.

Listed below is the proper procedure to follow if lava is encountered during footing excavation:

- The developer must secure the services of a soils engineer to determine lava cap type, as necessary, for structural pinning design.
- Submit pinning details and supporting calculations for plan check. Driven pins will not be accepted. Specify the ICE Report for installation of epoxy bolts and ASTM Reports for epoxy materials. The resistance to lateral sliding shall be calculated using CBC Section 1804 and CBC Table 1806.2 with $m = 0.70$.
- Pinning will generally not be permitted in footings subject to over-turning (i.e. hold-downs, retaining walls). A registered engineer must provide a letter for field pull-out test requirements if pins subject to tension are being proposed.
- The designer shall specify one bar size greater than indicated by the calculations in the construction documents.
- Once plans are approved and the permit is issued, and the footing is prepared, the design engineer shall inspect the installation of all structural of pinning. Then the design engineer provides a letter of approval to the city prior to scheduling the City of Chico footing building inspection.



**MUD FLOWS
SHALL NOT BE PINNED.
FULL-DEPTH FOOTINGS
MUST BE PROVIDED.**

GARAGE FOOTING DETAIL
F-72.1 | 1" = 1'-0"