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COMMUNITY DEVELOPMENT  
DEPARTMENT

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411 Main Street - 2<sup>nd</sup> Floor BUILDING DIVISION  
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<http://www.chicoca.gov>

Form 18

**IF LAVA IS ENCOUNTERED ON EXCAVATION OF AN INDIVIDUAL BUILDING SITE,  
THE FOLLOWING PINNING DETAIL SHALL BE USED:**

**PINNING OF LAVA CAP FOR FOOTINGS**

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

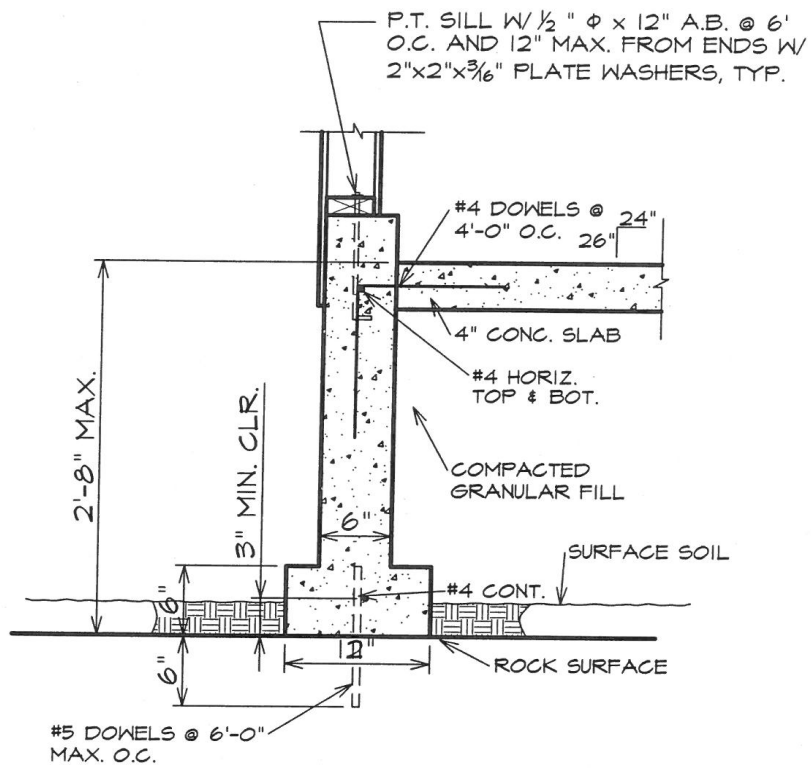
1. The developer must secure the services of a soils engineer to determine lava cap type, as necessary, for structural pinning design.

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  $\mu = 0.70$ .

2. Pinning will generally not be permitted in footings subject to over-turning (i.e. hold-downs, retaining walls). Contact the Senior Plan Check Engineer for field pull-out test requirements if pins subject to tension are being proposed.
3. Specify one bar size greater than indicated by the calculations.
4. Upon approval of the above, a special inspector shall inspect the installation of pinning and submit a letter of approval to the City. We will accept the design engineer as the special inspector.
5. A footing inspection can now be completed - **SCHEDULE YOUR INSPECTION by visiting the City of Chico web page at: [www.chicoca.gov](http://www.chicoca.gov) follow links to the Building Division / Online Permit Services <https://chic-trk.aspgov.com/eTRAKiT/>**

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

# ONE-STORY GARAGE FOOTING DETAIL



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