

CITY & COUNTY OF DENVER COMMUNITY PLANNING & DEVELOPMENT BUILDING PERMIT POLICY		
Subject:	EXCAVATION AND SHORING PROCEDURES FOR PERMITTING AND INSPECTIONS	
Approved:	Michael Roach, P.E., Building Official	
Number:	ADMIN 155.1	Effective Date: September 26, 2008
		Page: 1 of 2

These procedures shall apply to the construction of one and two family dwellings, including additions and garages.

1. Effective April 15, 2006, a separate shoring permit shall be obtained for any excavation where the descending slope of the excavation is steeper than one vertical unit to one horizontal unit; (1:1). The attached Excavation Benching Detail illustrates an approved alternative to a 1:1 sloped excavation. The shoring permit will be required in addition to the #1R construction permit for the construction of the residence itself.

Exception:

Unshored steeper slopes may be allowed when documented recommendations by the soils engineer of record for such unshored steeper slopes are submitted for review and approval. Unshored steeper slopes may require the applicant provide the City with an excavation bond; see item No. 5.e. for criteria to use to determine if an excavation bond is required.

2. The #1R construction permit for the residence/duplex will be released to the applicant only after any required shoring is in place and the shoring permit has obtained its final sign off from a Permit and Inspection Services Building Inspections, Construction Inspector.
3. Any construction occurring prior to the issuance of the shoring permit shall be a cause for the applicant to pay a late fee based on DBCA Section 152.6 Late Fee. The late fee will be based on the valuation of the construction cost of the project. Thus applicant will pay double the fee for both permits.
4. When shoring is required per item 1 above, the proposed shoring construction submittal to the Residential Permit Counter shall be as follows:
 - a. One copy of the banking/shoring evaluation bearing the Colorado registered seal and signature of the soils engineer of record.
 - b. Two copies of the shoring design calculations and shoring construction documents prepared and sealed by a Colorado registered professional engineer.
 - c. Provide name and phone number of designated special inspector/engineer inspecting installation of shoring.
 - d. The excavation/shoring permit shall be entered on a separate #1R permit.
 - e. The shoring permit fee shall be based on the valuation of the shoring cost.
 - f. Other information required for completion of permit application.
5. The excavation/shoring permit will be issued after the completion of the following:
 - a. Applicant shall have obtained Zoning approval.
 - b. Applicant shall possess an appropriate Wastewater Management Division permit.
 - c. Construction documents for the project have been approved by Residential Plans review.
 - d. Delivery of letters of notification to adjacent property owners.
 - e. Applicant has obtained Excavation Bond approval from the Department of Public Works, Right-of-Way Permitting for those excavations whose proximity to the public property line, per the provisions of DBCA Section 3307.3, extends within one foot of the angle of repose, or a slope of one to one, to any public sidewalk, street, alley or other public property.
6. Before starting any excavation or shoring work, the contractor shall meet the Permit and Inspection Services Building Inspections, Construction Inspector on site to review construction/excavation procedures. Any third party inspection reports or approvals shall be on site and available to the Construction Inspector. Use the automated Inspection Request System 720-865-2501 #113 to schedule this inspection.

