



# Pilaster Detail

## Minimum Requirements

This information bulletin outlines the City's requirements for a masonry pilaster. It may be used by itself or in conjunction with the retaining wall or free standing wall details. The pilaster may be used with wood or wrought iron fencing spanning between them.

**No building permits or inspections are required if under 6' high.**

### **Type of Block**

All pilasters must either be constructed using decorative block or must be finished (e.g., with stucco) to match the main structure.

### **Block**

All block must be type "N" grouted solid with  $f'_m=1,500$  psi.

### **Mix Requirements**

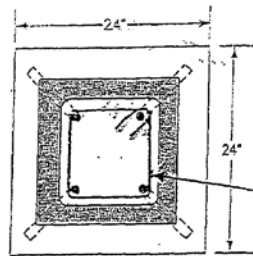
Note: The use of plastic cement is not permitted in retaining walls.

1. The concrete mix for footings must meet a compressive strength of  $f'_c=2,500$  psi minimum.
2. The mortar mix must have a compressive strength equal to 1,800 psi minimum. One possible mix contains the following proportions by volume:
  - 1 part Portland cement
  - 3½ parts sand
  - ¼ part hydrated lime or lime putty
3. Grout must have a compressive strength equal to 2,000 psi minimum. One possible mix contains the following proportions by volume:
  - 1 part Portland cement
  - 3 parts sand
  - 2 parts pea gravel (3/8-inch aggregate)

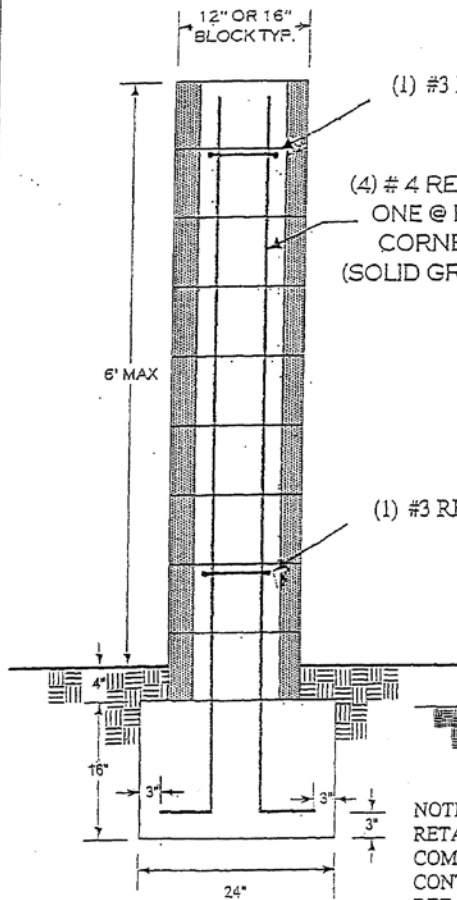
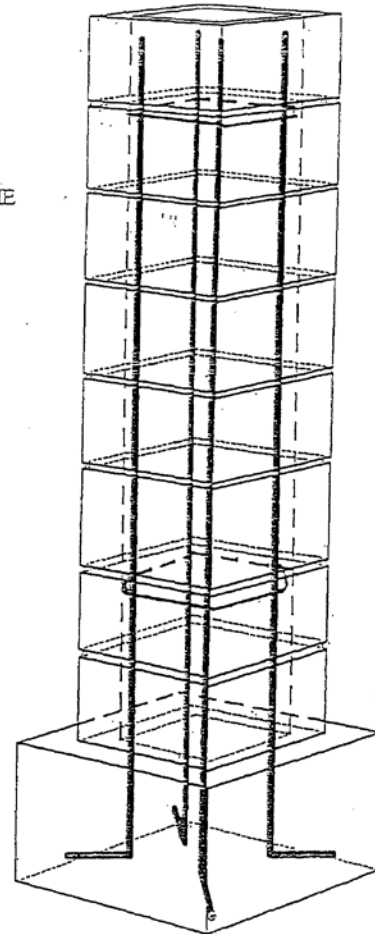
Add water until pouring consistency is achieved without segregation of the grout constituents. Rod or vibrate immediately. Re-rod or re-vibrate grout about 10 minutes after pouring to ensure solid consolidation. Stop grout two (2) inches from top of masonry units when grouting of second lift is to be continued at another time.

### **Reinforcing Steel**

Reinforcing steel must be deformed and comply with ASTM specification A615-85, Grade 40 or 60. When one continuous bar cannot be used, a lap or splice of 24" is required.



(1) #3 REBAR TIE



(1) #3 REBAR TIE

(4) # 4 REBAR,  
ONE @ EA.  
CORNER  
(SOLID GROUT)

6' MAX

(1) #3 REBAR TIE

ALL  
FOOTINGS  
SHALL BE A  
MINIMUM 7'  
TO  
DAYLIGHT

NOTE: PILASTERS MAY BE BUILT WITH THE CITY STANDARD RETAINING WALL OR FREE STANDING WALL DETAILS. THIS COMBINATION REQUIRES A CONTINUOUS FOUNDATION AND CONTINUOUS BOND BEAMS PER THE STANDARD WALL DETAILS.