**TYPE 1: 6" TOE**

- **GRADE CONDITION**
  - **SLOPING GRADE AT TOP OF WALL (2:1 MAX)**
    - 5'-1" to 6'-0"
    - 4'-1" to 5'-0"
    - U p to 3'-0"
  - **LEVEL GRADE AT TOP OF WALL**
    - 5'-1" to 6'-0"
    - 4'-1" to 5'-0"
    - U p to 3'-0"

- **IF SLOPING GRADE**
  - SEE TABLE FOR SLOPING GRADE (12 MAX SLOPE)
  - **H**
    - 6'-0" max
  - **H1**
    - (12 BLOCK)
  - **W**
  - **Y-BARS**
  - **Z-BARS**
  - #4 horizontal rebars
  - #2 ties
  - Finish grade
  - 6'-0" max

- **IF LEVEL GRADE**
  - SEE TABLE FOR LEVEL GRADE
  - #4 horiz. at top course
  - 8" concrete block
  - 3'-0" max.

- **Drainage system**
  - see note 5

- **TYPE 2: 6" HEEL**

- **GRADE CONDITION**
  - **SLOPING GRADE AT TOP OF WALL (2:1 MAX)**
    - 5'-1" to 6'-0"
    - 4'-1" to 5'-0"
    - U p to 3'-0"
  - **LEVEL GRADE AT TOP OF WALL**
    - 5'-1" to 6'-0"
    - 4'-1" to 5'-0"
    - U p to 3'-0"

- **IF SLOPING GRADE**
  - SEE TABLE FOR SLOPING GRADE (12 MAX SLOPE)
  - **H**
    - 6'-0" max
  - **H1**
    - (12 BLOCK)
  - **W**
  - **Y-BARS**
  - **Z-BARS**
  - #4 horizontal rebars
  - #2 ties
  - Finish grade
  - 6'-0" max

- **IF LEVEL GRADE**
  - SEE TABLE FOR LEVEL GRADE
  - #4 horiz. at top course
  - 8" concrete block
  - 3'-0" max.

- **Drainage system**
  - see note 5

**DISCLAIMER:**
Alternate retaining wall designs may be possible when provided with an engineered analysis. Use of this standard design is at the user's risk and carries no implied or inferred guarantee against failure or defects.
GENERAL NOTES:
1) ALL WORK SHALL CONFORM TO THE ADOPTED CODES AND ZONING REGULATIONS.
2) CONCRETE BLOCK MASONRY SHALL COMPLY WITH THE FOLLOWING:
   A. CONCRETE MASONRY SHALL CONFORM TO ASTM C-90, GRADE - N.
   B. MORTAR: TYPE M OR S.
   C. GROUT ALL CELLS W/2000 PSI PORTLAND CEMENT GROUT.
3) THE ULTIMATE COMPRESSIVE STRENGTH REQUIRED FOR FOUNDATION CONCRETE SHALL BE 2500 PSI.
4) ALL REINFORCING STEEL SHALL BE INTERMEDIATE GRADE ASTM A615-40 AND OVERLAP SPLICES SHALL BE 40 BAR DIAMETERS MINIMUM. ALL REBAR HOOKS SHALL BE A MINIMUM OF 12 TIMES THE REBAR DIAMETER (12bd) IN LENGTH.
5) PROVIDE RETAINING WALL DRAINAGE SYSTEM AS FOLLOWS:
   PROVIDE 1CF/FT OF CLEAN COARSE GRAVEL WITH 4" DIAMETER PERFORATED PVC DRAINAGE PIPE WITH 1% GRADIENT TO DRAIN - OR OMIT HEAD JOINTS IN FIRST COURSE.
6) OPTIONAL: INSTALLATION OF A MOISTURE BARRIER ON THE FILL SIDE OF THE WALL WILL HELP TO PREVENT MOISTURE FROM PENETRATING THE VISIBLE SIDE OF THE WALL, RESULTING IN DISCOLORATION.
7) THIS RETAINING WALL STANDARD IS NOT DESIGNED TO SUPPORT SURCHARGE LOADS FROM MOTOR VEHICLES OR OTHER STRUCTURES.
8) CLEANOUTS SHALL BE PROVIDED FOR ALL GROUT POURS OVER 5 FEET IN HEIGHT. WHERE REQUIRED, CLEANOUTS SHALL BE PROVIDED IN THE BOTTOM COURSE AT EVERY VERTICAL BAR AND SHALL BE SEALED AFTER INSPECTION AND BEFORE GROUTING.

REQUIRED INSPECTIONS:
1) FOOTING:
   EXCAVATION TRENCH CLEAN WITH STEEL IN PLACE AND SUPPORTED 3" ABOVE AND AWAY FROM THE SURROUNDING EARTH/DIRT.
2) REBAR/PRE-GROUT and DRAINAGE SYSTEM:
   BOND BEAM REBAR AND VERTICAL REBAR IN PLACE - INSPECTION PRIOR TO PLACING GROUT. DRAINAGE SYSTEM COMPLETE.
3) FINAL:
   AFTER GROUT IS PLACED AND BACKFILL COMPLETED - PRIOR TO ANY DECORATIVE CAP PLACEMENT.

SETBACK FROM TOP OF SLOPE:
All footings adjacent to slopes to be at least 5' to daylight as shown below.

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DESIGN PARAMETERS:
ACTIVE SOIL PRESSURE (PSF)
LEVEL BACKFILL = 30
SLOPING (2:1 MAX) = 43
PASSIVE SOIL BEARING (PSF) = 150
COEFFICIENT OF FRICTION = 0.25
ALLOWABLE SOIL BEARING PRESSURE (PSF) = 1500
(NO INCREASES TAKEN FOR DEPTH OR WIDTH OF FOOTING)

Western Riverside County Code Uniformity Program
Retaining Walls
City of Temecula
Retaining Walls
951-694-6439
04/17/2014
Walls

Retaining & Block Walls Atop Retaining

FOOTING OPTION “A”

- #4 Horizontal rebar (use bond beam block)
- #4 Vertical rebar at 24" max. spacing (rebar in center of cell)
- #4 horizontal rebar continuous at 32" max. above top of retaining wall (use bond beam block)
- Non-retaining portion of wall 8" Block (grout only cells with rebar)

FOOTING OPTION “B”

- #4 Vertical rebar at 24" max. spacing (rebar in center of cell)
- #4 horizontal rebar continuous at 32" max. above top of retaining wall (use bond beam block)
- Non-retaining portion of wall 8" Block (grout only cells with rebar)

the following inspections are required:

1) FOOTING: Excavation trench clean with steel in place and supported 3” above and away from the surrounding earth/dirt.
2) REBAR/PRE-GROUT: Bond beam rebar and vertical rebar in place - inspection prior to placing grout.
3) FINAL: After grout is placed - prior to any decorative cap placement.

NOTES:

1) fence heights are regulated – consult zoning regulations before beginning construction.
2) no water course or natural drainage shall be obstructed.
3) all rebar to be astm spec. A615, grade 40 minimum.
4) all rebar lap splices to be 24” minimum.
5) all masonry units to be astm C-90 grade N.
6) not designed for surcharge loads from vehicles or structures.

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City of Temecula
Block Wall atop 2’ Retaining Wall

951-694-6439

Western Riverside County Code Uniformity Program

Page 3 of 4
(TYPICAL)
For the retaining portion of wall
all cells to be grouted

(TYPICAL)
For non-retaining portion of wall
only cells and bond beam courses with
rebar to be grouted
(use grout stop mesh as appropriate)

(TYPICAL)
All rebar splices
24" min. overlap

(TYPICAL)
All rebar shall have a minimum of
3" concrete cover at footings

DESIGN PARAMETERS:
ACTIVE SOIL PRESSURE (PSF) = 30
PASSIVE SOIL BEARING (PSF) = 150
COEFFICIENT OF FRICTION = 0.25
ALLOWABLE SOIL BEARING (PSF) = 1500
WIND = 80 MPH, EXPOSURE C
SEISMIC:
Na=1.3, Nv=1.6, Z=0.4, SOIL PROFILE=Sd