Clark County
Department of Development Services
4701 W. Russell Rd.
Las Vegas, Nevada 89118
(702) 455-3000

RETAINING WALL WITH OPTION 6' MASONRY WALL

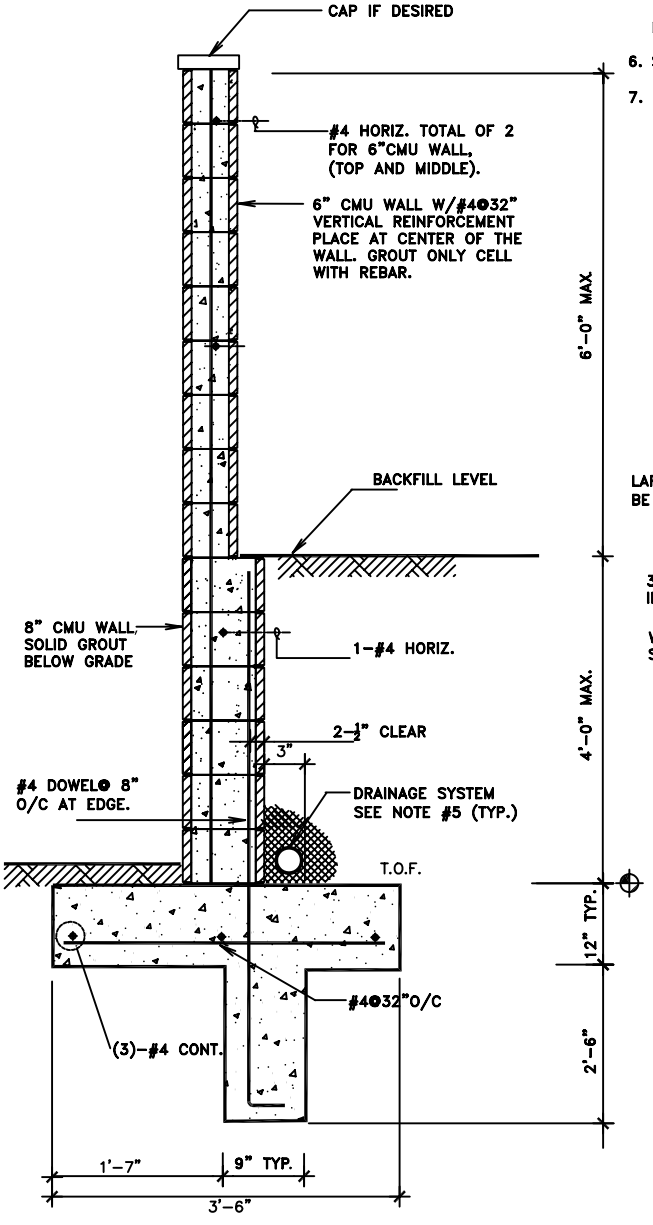
B-101

04-13-04

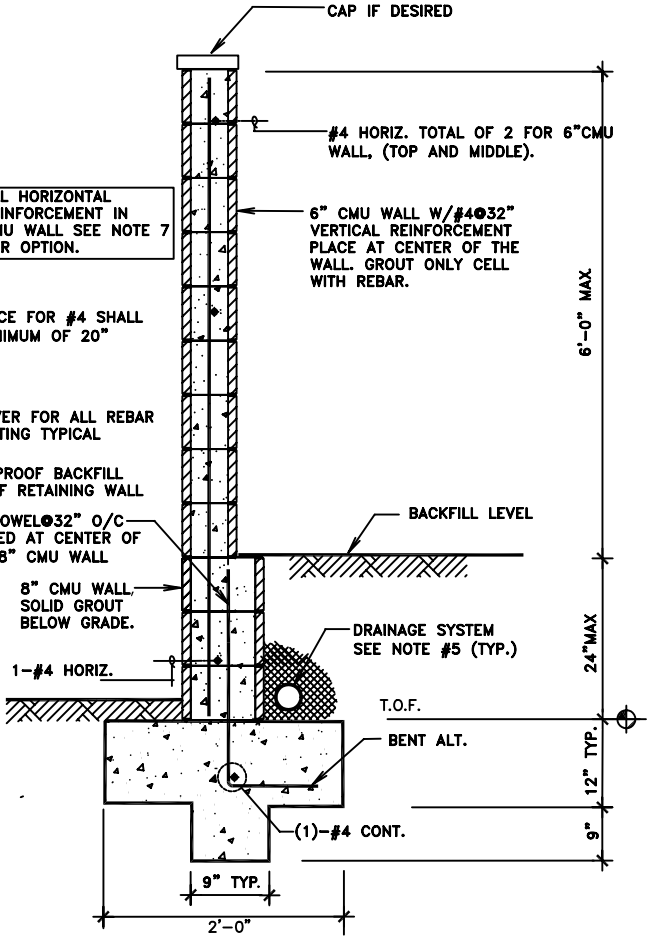
DESIGN CRITERIA
WIND LOAD
BASIC WIND SPEED = 90 MPH, EXPOSURE C
TOPOGRAPHIC FACTOR = 1.0
W = 13.3 PSF
SEISMIC LOAD
DESIGN SPECTRAL RESPONSE SDS =.65g
SEISMIC COEFFICIENTS R = 3.0
FP = 0.217g
LATERAL PRESSURE DUE TO EARTHQUAKE MOVEMENT = 20H PSF/FT, THE RESULTANT IS ACTING AT 2/3H WHERE H IS THE HEIGHT OF THE BACKFILL
SOIL PARAMETER
SITE CLASS = D
LATERAL EQUIVALENT FLUID PRESSURE OF 45 PSF/FT
ALLOWABLE FOUNDATION VALUES BASED ON A SOIL CLASS 5 MATERIAL OF IBC TABLE 1804.2.

GENERAL NOTES:

1. ALL WORK SHALL CONFORM TO THE INTERNATIONAL BUILDING CODE 2000 EDITION WITH SNBC AMENDMENT AS ADOPTED BY CLARK COUNTY.
2. CONCRETE BLOCK MASONRY SHALL COMPLY WITH THE FOLLOWING:
   A. CONCRETE MASONRY SHALL CONFORM TO ASTM C 55 OR C 90, GRADE-N.
   B. MORTAR: TYPE M OR TYPE S, 1900 PSI
   C. GROUT COMFORMS TO ASTM C 476, MINIMUM 2000 PSI.
3. THE ULTIMATE COMPRESSIVE STRENGTH REQUIRED FOR FOUNDATION CONCRETE SHALL BE OF 4500 PSI. (EXPOSED TO SULFATE CONTAINING SOILS)
4. ALL REINFORCING STEEL SHALL BE INTERMEDIATE GRADE ASTM A615-40
5. PROVIDE 1CF/FT OF CLEAN COARSE GRAVEL WITH 2" DIAMETER WEEP HOLES THROUGH THE WALL AND LINED WITH PVC PIPE AT 8'-0" O.C. ALONG WALL AND PLACED 3" ABOVE THE LOWEST ADJACENT FINISHED GRADE OR 4" DIA. PERFORATED PVC. PIPE W/ 1% GRADIENT TO DRAIN.
6. SITE PLAN SHALL BE SUBMITTED FOR REVIEW BEFORE THE BUILDING PERMIT CAN BE ISSUED.
7. HORIZONTAL JOINT REINFORCEMENT 2 OF LONGITUDINAL W1.7 (MW11) WIRES SPACE NOT MORE THAN 16" MAY BE SUBSTITUTE FOR HORIZONTAL REINFORCEMENT.



A. 4' RETAINING WALL



B. 2' RETAINING WALL

BUILDING DIVISION INSPECTION SHALL BE OF THE FOLLOWING STEPS:

1ST. FOUNDATION TRENCH WITH SECURED REINFORCING STEEL.
2ND. BLOCK WALL WITH REINFORCING STEEL BEFORE GROUT.
3RD. GROUTED WALL AND DRAINAGE SYSTEM
(NO BACKFILL IS ALLOWED) BEFORE DRAIN SYSTEM INSPECTION SEE NOTE #5
4RD. BACKFILL AND FINAL.