MASONRY FENCES

2024 IBC

Clark County
Building Department
4701 W Russell Rd
Las Vegas, NV 89118
(702) 455-3000

Boulder City
Building Department
401 California Avenue
Boulder City, NV 89005
(702) 293-9282

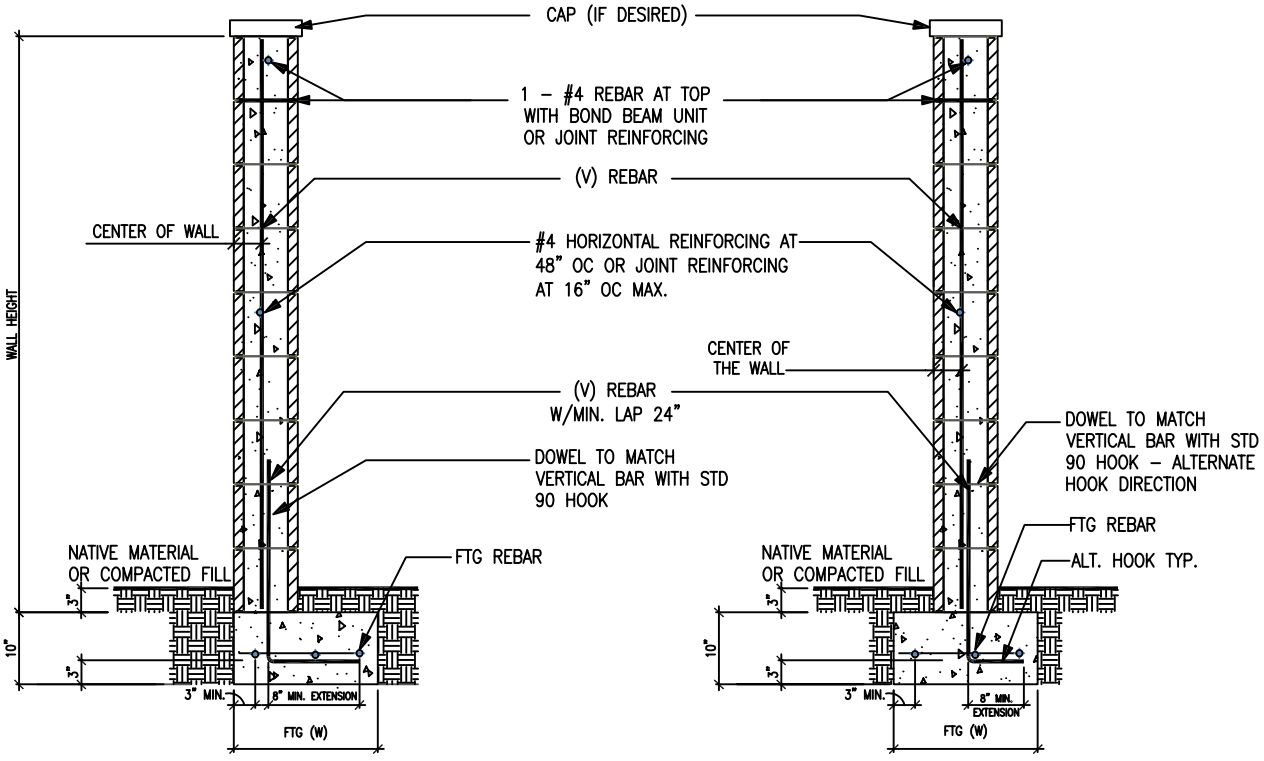
Henderson
Building & Fire Safety Division
240 S. Water Street
Henderson, NV 89015
(702) 267-3650

Las Vegas
Building & Safety Dept.
495 S. Main Street
Las Vegas, NV 89101
(702) 229-6251

REQUIRED INSPECTIONS: (SPECIAL INSPECTION – NONE REQUIRED)
1. FOUNDATION
2. MASONRY PREGROUT
3. FINAL

GENERAL NOTES:
1. ALL WORK SHALL CONFORM TO THE IBC 2024 EDITION AS AMENDED
2. CONCRETE BLOCK MASONRY SHALL COMPLY WITH THE FOLLOWING:
   A. CONCRETE MASONRY SHALL CONFORM TO ASTM C 90, f'm = 2000 PSI MIN.
   B. MORTAR: TYPE M OR TYPE S
   C. GROUT CONFORMS TO ASTM C 476, MINIMUM 2000 PSI
3. THE ULTIMATE COMPRESSIVE STRENGTH REQUIRED FOR FOUNDATION CONCRETE SHALL BE OF 4500 PSI, TYPE V CEMENT, AND 0.45 WATER TO CEMENT RATIO.
4. ALL REINFORCING STEEL SHALL BE GRADE 60, ASTM A615, MIN. LAP SPLICE = 24" JOINT REINFORCING SHALL BE 9 GAGE WIRE CONFORMING TO ASTM A951 (Fy=70 ksi) MIN. LAP 12"
5. NO WATER COURSE OR NATURAL DRAINAGE SHALL BE OBSTRUCTED. FOR RETAINING WALL, 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
6. SITE PLAN SHALL BE SUBMITTED FOR REVIEW BEFORE THE PERMIT CAN BE ISSUED
7. CONTROL JOINT SPACING AT 24 FEET (MAX). VERTICAL REBAR SHALL BE LOCATED WITHIN 16 INCHES OF THE END.
8. GROUT ALL CELLS CONTAINING REINFORCEMENT. LOWER STEM OF RETAINING WALLS IS SOLID GROUTED.
9. 3 INCHES COVER FOR ALL REBAR IN FOOTING (TYPICAL UNLESS NOTED OTHERWISE).
10. WATERPROOF THE INSIDE FACE OF ALL RETAINING WALLS PER 1805.3 OF 2024 IBC.

DESIGN CRITERIA
2024 IBC WITH SO. NV AMENDMENTS
WIND LOAD
BASIC WIND SPEED = 95 MPH, EXPOSURE C
Kz = 0.85
Ke = 1.0
Kzt = 1.0
Kd = 0.85
Cf = 1.4
G = 0.85
SEISMIC LOAD
DESIGN SPECTRAL RESPONSE Sds = 0.574g
SEISMIC COEFFICIENTS R = 1.25 (ASCE 7–22, T–15.4–2)
GROUND–SUPPORTED CANTILEVER WALLS OR FENCES
Cs = 0.46
SEISMIC LOAD DUE TO LATERAL EARTH PRESSURE = $10.4h^2$ (LBS) THE POINT OF APPLICATION IS TAKEN AT 0.6H ABOVE THE BASE OF THE WALL, WHERE H IS THE HEIGHT OF THE BACKFILL
SOIL PARAMETER
SITE CLASS = D
ALLOWABLE SOIL BEARING PRESSURE = 1000 PSF
LATERAL EQUIVALENT FLUID PRESSURE OF 45 PSF/FT
PASSIVE PRESSURE = 100 PSF
COEFFICIENT OF FRICTION FOR SLIDING = .25



WALL SCHEDULE FOR WALL AT EDGE OF FOOTING				
WALL HEIGHT (FT)	4'–0"	6'–0"	6'–0"	8'–0"
CMU THICKNESS (IN)	6"	6"	8"	8"
(V) REBAR #4 @	48" O.C.	24" O.C.	24" O.C.	8" O.C.
FTG REBAR	2–#4	3–#4	4–#4	6–#4
FTG (W)	1'–9"	2'–9"	3'–0"	5'–0"

WALL SCHEDULE FOR WALL AT CENTER OF FOOTING				
WALL HEIGHT (FT)	4'–0"	6'–0"	6'–0"	8'–0"
CMU THICKNESS (IN)	6"	6"	8"	8"
(V) REBAR #4 @	48" O.C.	24" O.C.	24" O.C.	8" O.C.
FTG REBAR	2–#4	3–#4	3–#4	4–#4
FTG (W)	1'–6"	2'–0"	2'–3"	3'–3"

Mesquite
Building Department
10 East Mesquite Blvd.
Mesquite, NV 89027
(702) 346-2835

North Las Vegas
Building Safety
2250 Las Vegas Blvd. N
N. Las Vegas, NV 89030
(702) 633-1577

Pahrump
Nye County Building Department
2041 E. Calvada Boulevard North
Pahrump, NV 89048
(775) 751-3373

Clark County School District
Building Department
1180 Military Tribute Place
Henderson, NV 89074
(702) 799-7605