

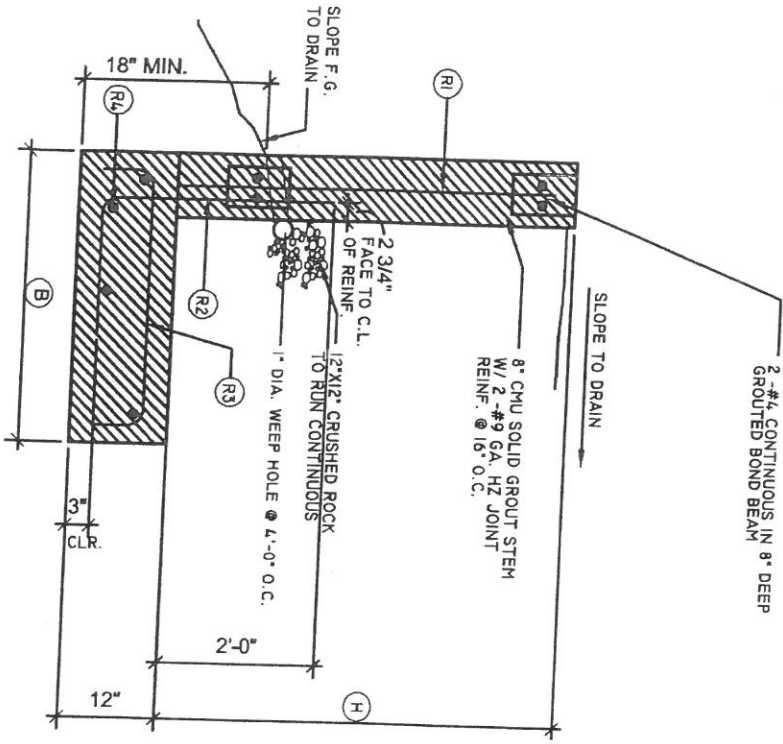
# RESIDENTIAL

WITHOUT FENCE	H	R1	R2	R3	R4	B
4'-0"	#4 @ 48" o.c. @ edge	#4 @ 48" o.c. @ edge	#4 @ 24" o.c.	#4 @ 24" o.c.	4 # 4	2'-0"
5'-0"	#4 @ 48" o.c. @ edge	#4 @ 48" o.c. @ edge	#4 @ 24" o.c. @ edge	#4 @ 12" o.c.	4 # 4	3'-0"
6'-0"	#4 @ 48" o.c. @ edge	#4 @ 48" o.c. @ edge	#4 @ 16" o.c. @ edge	#5 @ 12" o.c.	4 # 5	4'-0"

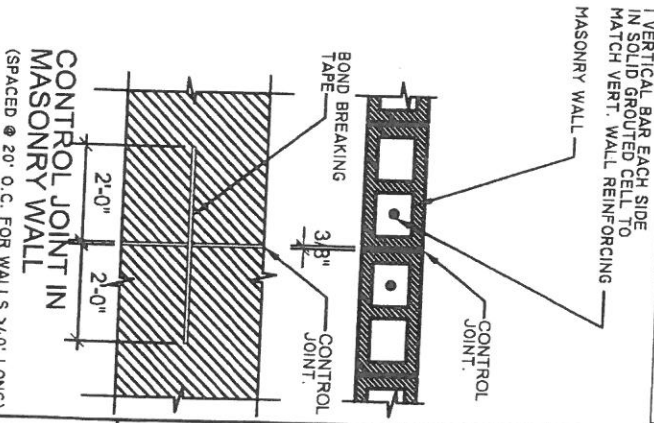
## STANDARD RESIDENTIAL RETAINING WALL, GENERAL NOTES BUILDING CODE IBC/IRC 2003

Allowable Soil Pressure = 1,500 PSF  
 Design Active Pressure = 35 PCF  
 Wind Speed = 90 mph at 3 sec Gust Wind Speed, Exposure C  
 Wind Above Backfill = 22.02 PSF (for 20 sq. ft. of wall) per Table 1609.6.2.1(2)  
 Footing Concrete, ASTM C-94  $f_c=2,500$  PSI  
 Reinforcing Grade 40, ASTM 615=40,000 PSI  
 Masonry Units ASTM C90 Grade N-1  $f_c=1,800$  PSI  
 Masonry Compressive Strength  $F'm=1,500$  PSI  
 Grout (solid) ASTM A-476  $f_c=2,000$  PSI  
 Mortar ASTM 270 Type S, Running Bond  $f_c=1,800$  PSI  
 Joint Reinforcing DUR-O-WALL (2) #9 ga.  
 Ladder or Truss type ASMT A-82  $F_y=80,000$  PSI

Backfill material to be well drained sandy, granular material, no expansive fines or organic material. Brace wall prior to backfill operations. Retaining wall design shown shall not be used at expansive soil conditions.  
 All reinforcing to be secured in place prior to concrete and grout placement. All cells below grade and all cells with vertical bars to be solid grout. Vertical bars to lap with dowel as noted.  
 No surface surcharge loads over backfill material within a horizontal distance equal to twice the wall height.  
 Retaining wall drainage: 1" dia. PVC weep at base at 48" o.c., screen with 1 cubic ft. of clean crushed gravel, 1" max.  
 Fences shall not retain or obstruct drainage. Finish grade to have possible slope to drain away from without ponding.  
 Surcharge load is not accounted.



6'-0" MAX. FREE-STANDING RETAINING MASONRY WALL AND FOOTING



## Wall Standard

SHEET NO.  
 1 OF 2  
 not to scale