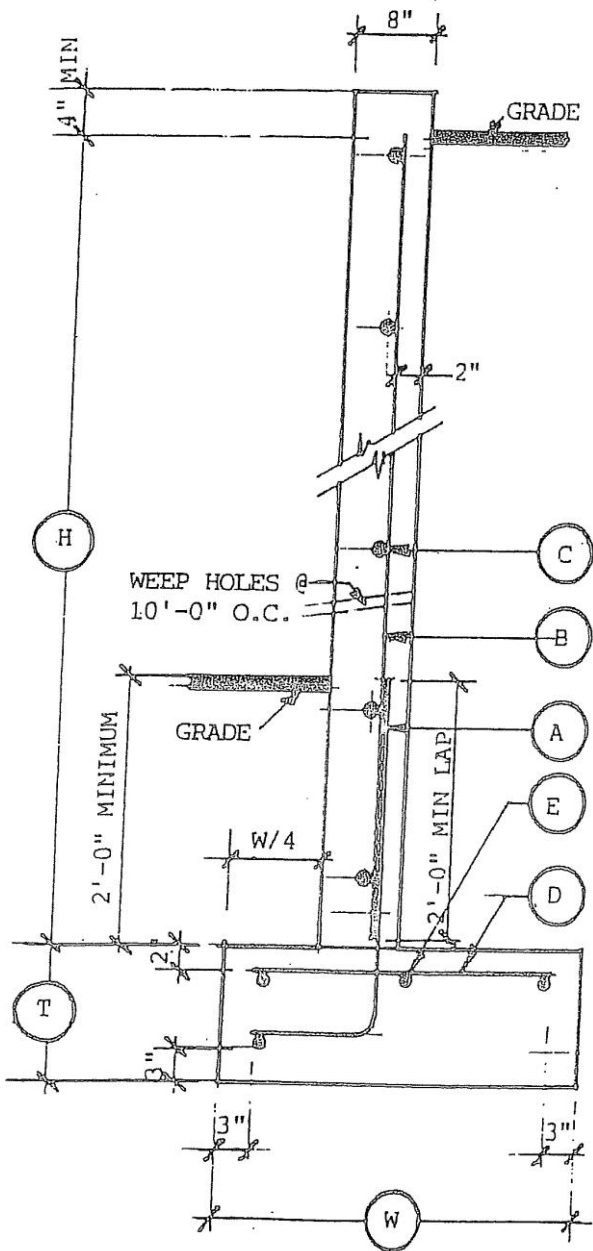




**BUILDING  
DEPARTMENT  
TIP SHEET**

# **RETAINING WALL STANDARDS**



NOTE: The use of this city standard retaining wall design is an alternate in lieu of providing structural calculations for heights greater than 4' high per 2009 IRC 105.2.

## **RETAINING WALL SCHEDULE**

WALL			REINFORCEMENT				
H	W	T	A	B	C	D	E
9'	4'-4"	12"	#5 @ 8"	#5 @ 8"	#5 @ 15"	#5 @ 12"	(5) #4
8'	3'-10"	12"	#5 @ 12"	#5 @ 12"	#5 @ 15"	#4 @ 12"	(5) #4
7'	3'-4"	12"	#4 @ 10"	#4 @ 10"	#5 @ 15"	#4 @ 16"	(4) #4
6'	2'-10"	12"	#4 @ 16"	#4 @ 16"	#5 @ 15"	#4 @ 16"	(4) #4
5'	2'-6"	12"	#4 @ 16"	#4 @ 16"	#5 @ 15"	#4 @ 16"	(4) #4
4'	2'-0"	12"	#4 @ 16" Full Ht.		#5 @ 15"	#4 @ 16"	(4) #4
3'	1'-6"	10"	#4 @ 16" Full Ht.		#5 @ 15"	#4 @ 16"	(3) #4
2'	1'-4"	8"	#4 @ 16" Full Ht.		#5 @ 15"	#4 @ 16"	(2) #4

### **NOTES**

- ENGINEERED DESIGN REQUIRED WHERE **H** DIMENSION EXCEEDS 9'-0"
- ENGINEERED DESIGN REQUIRED FOR ALTERNATE METHODS OR FOR UNUSUAL OR EXCESSIVE SURCHARGE CONDITIONS.
- ALL RE-BAR TO BE SECURELY TIED IN PLACE
- DELETE WEEP HOLES WHEN RETAINING WALL IS PART OF A FOUNDATION WALL. PROVIDE DRAIN ROCK AND DRAIN TILE AT FOOTING AS REQUIRED TO SUIT SITE CONDITIONS.
- MINIMUM COMPRESSIVE STRENGTH OF CONCRETE TO BE 3,000 PSI PER 2009 IRC 402.2