



MASONRY WALL SCHEDULE
1500 psf - BEARING CAPACITY (STIFF NATURAL UNDISTURBED SOILS OR COMPACTED AND TESTED SOILS SEE GENERAL NOTES SHEET RW1)

WALL HEIGHT H	BASE WIDTH B	TOE DEPTH (TOE) C	BASE DEPTH (HEEL) C1	BATTER A	FULLY MORTARED ZONE E	THICKNESS OF WALL T	BEARING CAPACITY
1'-0"	1'-0"	0'-0"	0'-6"	0'-2"	FULLY MORTARED	1'-0"	1500 psf
2'-0"	1'-2"	0'-2"	0'-9"	0'-3"	FULLY MORTARED	1'-0"	
3'-0"	1'-8"	0'-2"	0'-9"	0'-4"	FULLY MORTARED	1'-6"	
4'-0"	2'-3"	0'-3"	1'-0"	0'-5"	FULLY MORTARED	2'-0"	
5'-0"	3'-0"	0'-4"	1'-3"	0'-7"	FULLY MORTARED	2'-8"	
6'-0"	3'-8"	0'-6"	1'-6"	0'-8"	FULLY MORTARED	3'-2"	

WALL DESIGN CRITERIA

BEARING Q_u	SLOPE TOP β	SLOPE BOT β_1	ACTIVE PRESSURE e_a	PASSIVE PRESSURE e_p	FRICTION ANGLE BASE δ	SLOPE OF BACK OF WALL α	SURCHARGE q
1500PSF	5.71 deg	14 deg	26 deg	26 deg	17 deg	99.46 deg	0 psf

USE THIS SCHEDULE FOR 3/RW2

MASONRY WALL SCHEDULE
1500 psf - BEARING CAPACITY (STIFF NATURAL UNDISTURBED SOILS OR COMPACTED AND TESTED SOILS SEE GENERAL NOTES SHEET RW1)

WALL HEIGHT H	BASE WIDTH B	TOE DEPTH (TOE) C	BASE DEPTH (HEEL) C1	BATTER A	FULLY MORTARED ZONE E	THICKNESS OF WALL T	BEARING CAPACITY
1'-0"	1'-0"	0'-0"	0'-6"	0'-2"	FULLY MORTARED	1'-0"	1500 psf
2'-0"	1'-4"	0'-2"	0'-9"	0'-3"	FULLY MORTARED	1'-2"	
3'-0"	1'-11"	0'-3"	0'-9"	0'-4"	FULLY MORTARED	1'-8"	
4'-0"	2'-9"	0'-4"	1'-0"	0'-5"	FULLY MORTARED	2'-5"	
5'-0"	3'-6"	0'-5"	1'-6"	0'-6"	FULLY MORTARED	3'-1"	
6'-0"	4'-3"	0'-7"	1'-9"	0'-8"	FULLY MORTARED	3'-8"	

WALL DESIGN CRITERIA

BEARING Q_u	SLOPE TOP β	SLOPE BOT β_1	ACTIVE PRESSURE e_a	PASSIVE PRESSURE e_p	FRICTION ANGLE BASE δ	SLOPE OF BACK OF WALL α	SURCHARGE q
1500PSF	14 deg	14 deg	26 deg	26 deg	17 deg	99.46 deg	0 psf

USE THIS SCHEDULE FOR 2/RW2

MASONRY WALL SCHEDULE
1500 psf - BEARING CAPACITY (STIFF NATURAL UNDISTURBED SOILS OR COMPACTED AND TESTED SOILS SEE GENERAL NOTES SHEET RW1)

WALL HEIGHT H	BASE WIDTH B	TOE DEPTH (TOE) C	BASE DEPTH (HEEL) C1	BATTER A	FULLY MORTARED ZONE E	THICKNESS OF WALL T	BEARING CAPACITY
1'-0"	1'-0"	0'-0"	1'-0"	0'-2"	FULLY MORTARED	1'-0"	1500 psf
2'-0"	1'-2"	0'-2"	1'-0"	0'-3"	FULLY MORTARED	1'-0"	
3'-0"	1'-5"	0'-2"	1'-0"	0'-4"	FULLY MORTARED	1'-3"	
4'-0"	2'-0"	0'-4"	1'-3"	0'-5"	FULLY MORTARED	1'-8"	
5'-0"	2'-6"	0'-6"	1'-6"	0'-6"	FULLY MORTARED	2'-0"	
6'-0"	3'-0"	0'-8"	1'-9"	0'-7"	FULLY MORTARED	2'-4"	
7'-0"	3'-10"	0'-10"	1'-9"	0'-9"	FULLY MORTARED	3'-0"	
8'-0"	4'-8"	1'-0"	2'-0"	0'-10"	FULLY MORTARED	3'-6"	
9'-0"	5'-2"	1'-2"	2'-3"	0'-11"	FULLY MORTARED	4'-0"	

WALL DESIGN CRITERIA

BEARING Q_u	SLOPE TOP β	SLOPE BOT β_1	ACTIVE PRESSURE e_a	PASSIVE PRESSURE e_p	FRICTION ANGLE BASE δ	SLOPE OF BACK OF WALL α	SURCHARGE q
1500PSF	-14 deg	14 deg	26 deg	26 deg	17 deg	99.46 deg	0 psf

USE THIS SCHEDULE FOR 1/RW2

3 RW2 TYPICAL WALL SECTION
1V:10H MAX SLOPE ABOVE WALL
BEARING IN CLAY SOILS
1/2" = 1'-0"

2 RW2 TYPICAL WALL SECTION
1V:4H MAX SLOPE ABOVE WALL
BEARING IN CLAY SOILS
1/2" = 1'-0"

1 RW2 TYPICAL WALL SECTION - DETENTION POND
NEGATIVE 1V:4H MAX SLOPE ABOVE WALL
BEARING IN CLAY SOILS
1/2" = 1'-0"

DATE	BY	NO.	DATE	REVISION
01-23-12	TJW			
01-23-12	TJW			
01-23-12	TJF			

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MASONRY RETAINING WALLS
HONDA OF ROCKWALL ADDITION
OFF I-30 NEAR TOWNSEND DRIVE
ROCKWALL, TEXAS

ERWS, INC.
EULESS, TEXAS
ERWS JOB NO. 110209

THOMAS J. WHITECOTTON
108958
LICENSED PROFESSIONAL ENGINEER

JOB NO. 459.11
RW2