

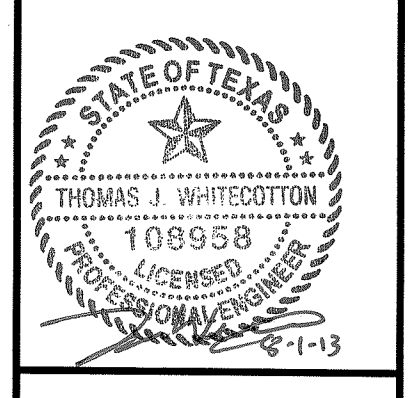
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08-01-13	TJW				
08-01-13	TJW				
08-01-13	AMB				

FALKOFSKE ENGINEERING, INC.
 Structural Engineering Consultants
 Texas Registered Engineering Firm: # F-4038
 1414 West Randal Mill Road
 Suite 201
 Arlington, Texas 76012
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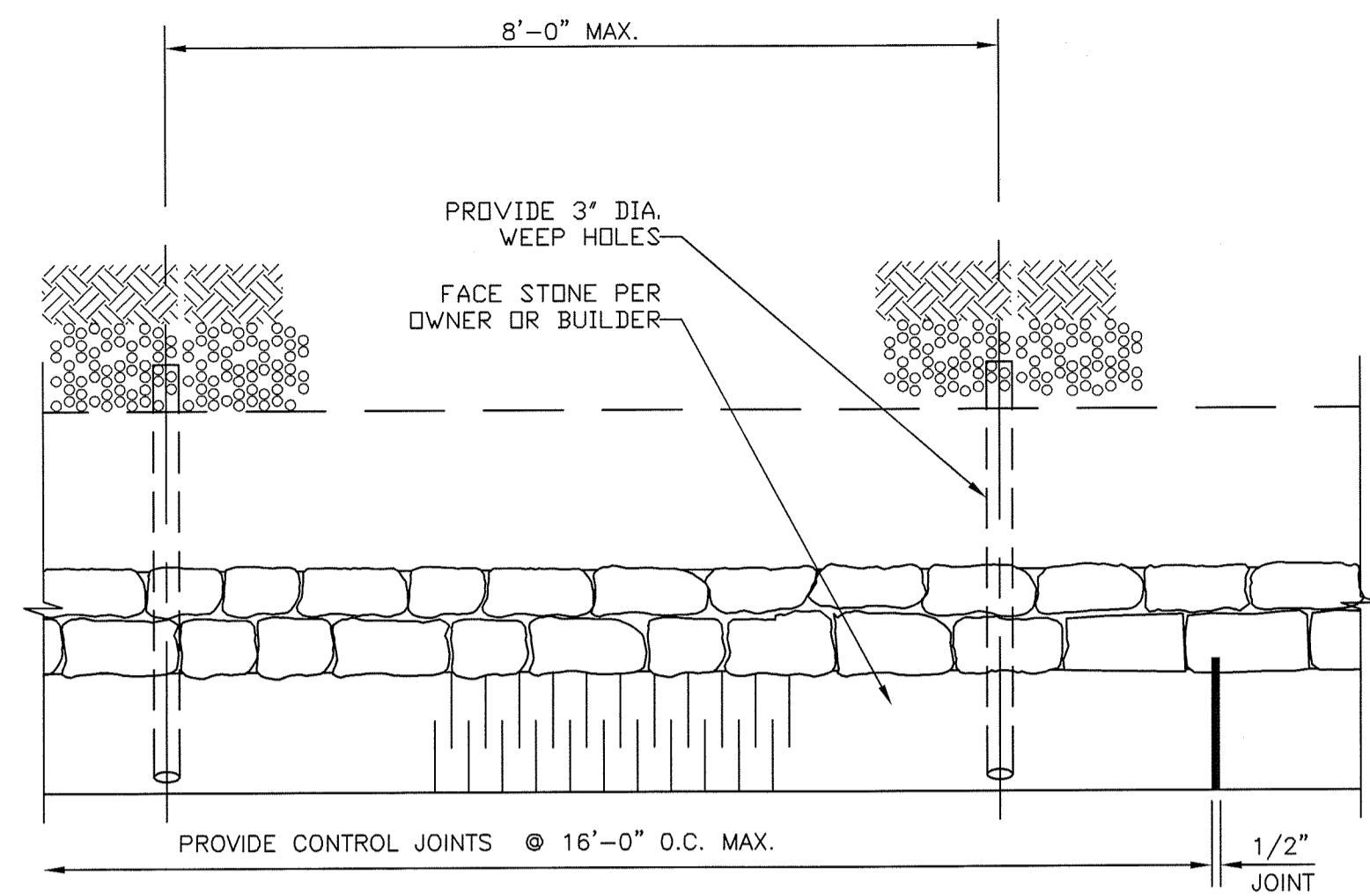
SITE PLAN
 STONE CREEK - PHASE 4
 OFF HARVARD DRIVE
 ROCKWALL, TEXAS

RPM XCONSTRUCTION, LLC
 PLANO, TEXAS

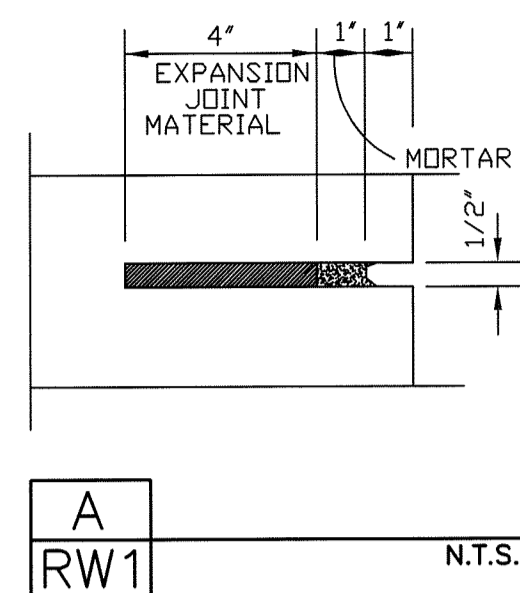


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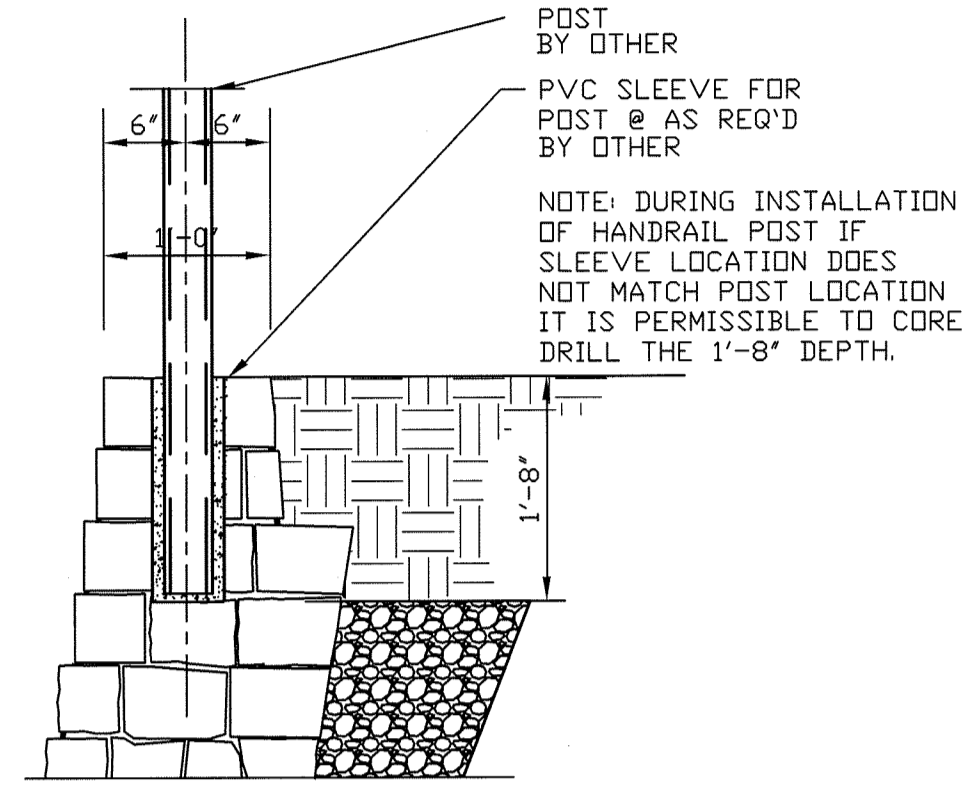
SP1



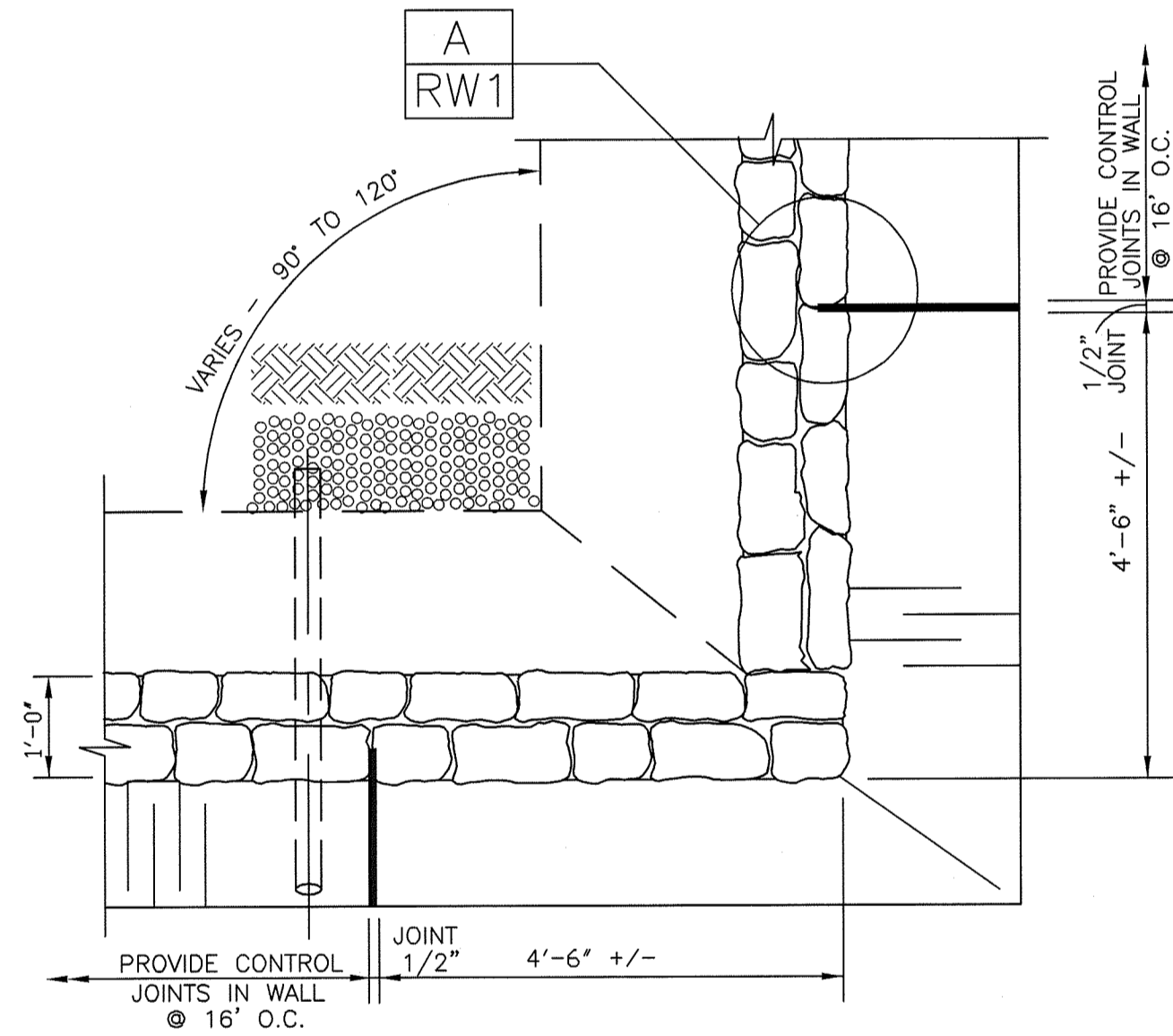
2
RW1 TYPICAL PLAN VIEW AT BASE N.T.S.



A
RW1 N.T.S.



1
RW1 WALL SECTION W/HANDRAIL POST CONTRACTOR OPTION N.T.S.



3
RW1 TYPICAL PLAN VIEW AT CORNERS N.T.S.

1. Design Building Code

International Building Code, 2009 Edition

2. Geotechnical Report

Firm: Alliance Geotechnical Group
 Report No. E12-1108 Dated: February 8, 2013
 Allowable Bearing Capacity 1500, 2500 psf

3. Geotechnical Criteria

Bearing on Stiff Natural Undisturbed Clayey Soils or Compacted and Tested Soils

Allowable Bearing = 1500 psf, min.
 Friction Angle between Base of Wall and Soil = 17 deg

Backfill Soil Parameters:
 Backfill Soil - Natural Clays or Fill Soils
 Backfill Angle of Internal Friction PHI = 26 deg

Backfill Soil - Gravel or Stone
 Backfill Angle of Internal Friction PHI = 35 deg

Base Soil Parameters:
 Soil at Toe - Natural, Undisturbed or Fill Soils
 Angle of Internal Friction PHI = 26 deg

Bearing on Remediated Base

Allowable Bearing = 2500 psf, min.
 Friction Angle Between Base of Wall and Soil = 28 deg

Backfill Soil Parameters:
 Backfill Soil - Natural Clays or Fill Soils
 Backfill Angle of Internal Friction PHI = 26 deg

Backfill Soil - Gravel or Stone
 Backfill Angle of Internal Friction PHI = 35 deg

Base Soil Parameters:
 Soil at Toe - Natural, Undisturbed Soils
 Angle of Internal Friction PHI = 26 deg

The use of very wet or very dry backfill soil should be avoided. The use of heavy equipment within 3'-0" of the wall could damage the wall and should be avoided.

Locate base of walls on undisturbed or properly compacted soil.

4. Materials:

Average density of masonry stone wall varies from 135 pcf to 145 pcf. Size of stone within wall varies from 4" to 18". Crushed concrete is acceptable to be used in the wall construction.

Drainage Zone Materials:

Drainage zone materials may be composed of clean gravel or stone ranging from 1" to 5". Crushed concrete is acceptable provided it is clean and generally free of dust or other deleterious materials.

Portland Cement Mortar for Retaining Wall Construction.

The portland cement mortar used for construction of the masonry stone retaining walls shall be provided with the following proportions per cubic yard of concrete. The portland cement mortar supplier shall provide "batch tickets" clearly indicating that the appropriate amount of materials are provided in each concrete mixer truck load. The batch tickets shall clearly indicate the amount batched, the date, the project name and shall be provided to Falkofske Engineering, Inc. for review, documentation, and file.

Contents	Amount per cubic yard
Type 1 Portland cement	414 lbs
Type F Fly Ash	103 lbs
Fine Aggregate (sand)	2987 lbs
Sika-Air	2 oz
Plastiment ES	20.6 oz
Sikament 686	15.5 oz
Potable Water	258 lbs

Concrete retarders may be used at the discretion of the masonry wall contractor. A greater amount of retarder is typically used during hot periods and a less amount of retarder is typically used during cool weather.

Please note that the above proportions will provide a portland cement mortar with a compressive strength of about $f_c = 2000$ psi. Falkofske Engineering, Inc. does not require any concrete testing provided the above proportions are verified by way of the "batch tickets".

5. Construction Reviews

Falkofske Engineering, Inc. shall be called for construction review of masonry wall.

6. Retaining Wall Design Constraints

Retaining walls should not have solid fence placed on top of wall other than that shown on these plans. Retaining walls shall not have additional surcharge placed above wall other than that shown on these plans. Retaining walls shall not have slope at base or top of wall that exceed that which is shown on these plans. The retaining walls noted above require special design.

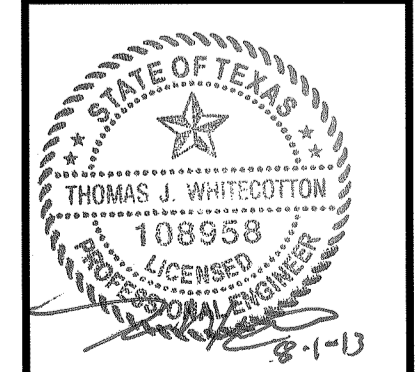
Minor variations in the construction of the retaining walls from these documents may be accepted at the discretion of the design engineer.

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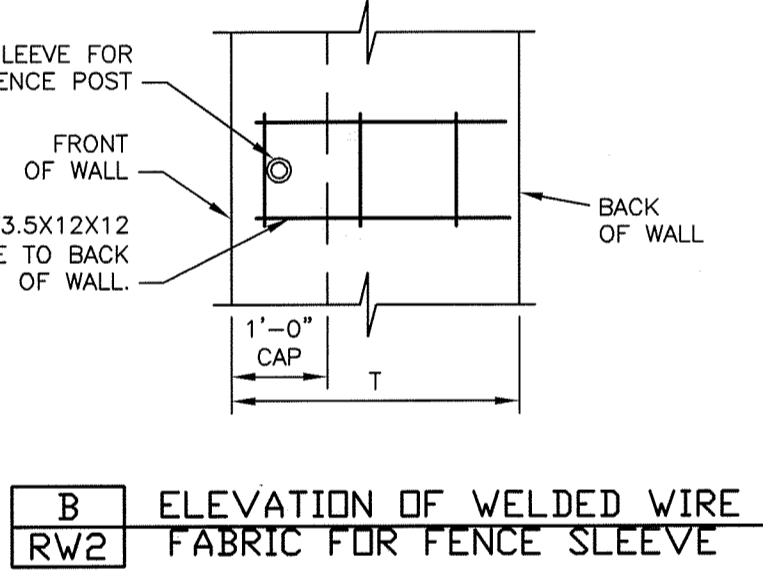
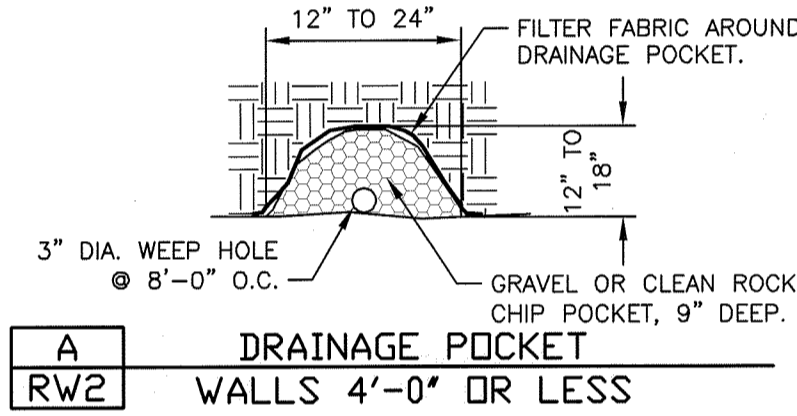
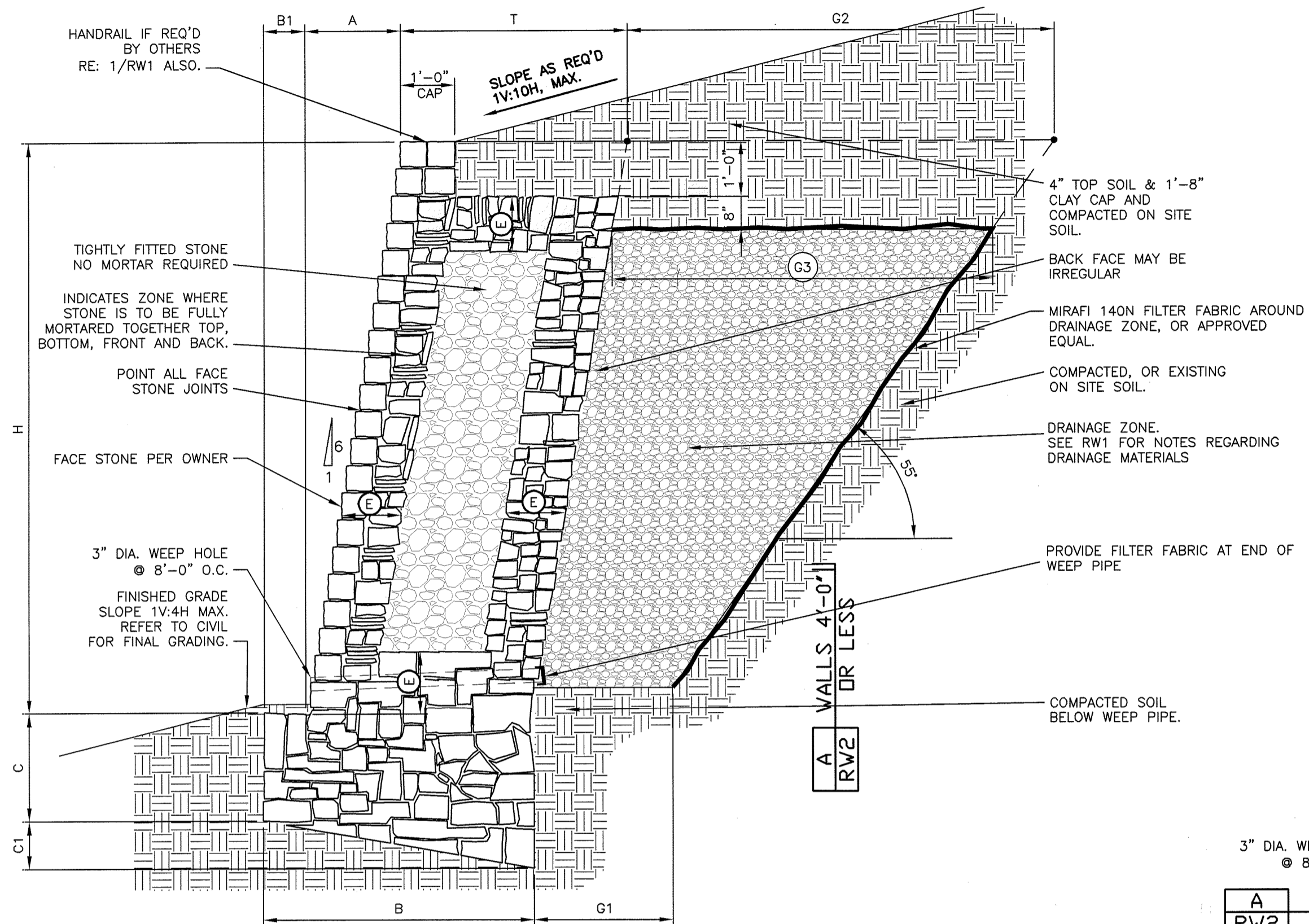
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MASONRY RETAINING WALLS - NOTES & STANDARD DETAILS
 STONE CREEK - PHASE 4
 OFF HARVARD DRIVE
 ROCKWALL, TEXAS
 RPM xCONSTRUCTION, LLC
 PLANO, TEXAS



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RW1

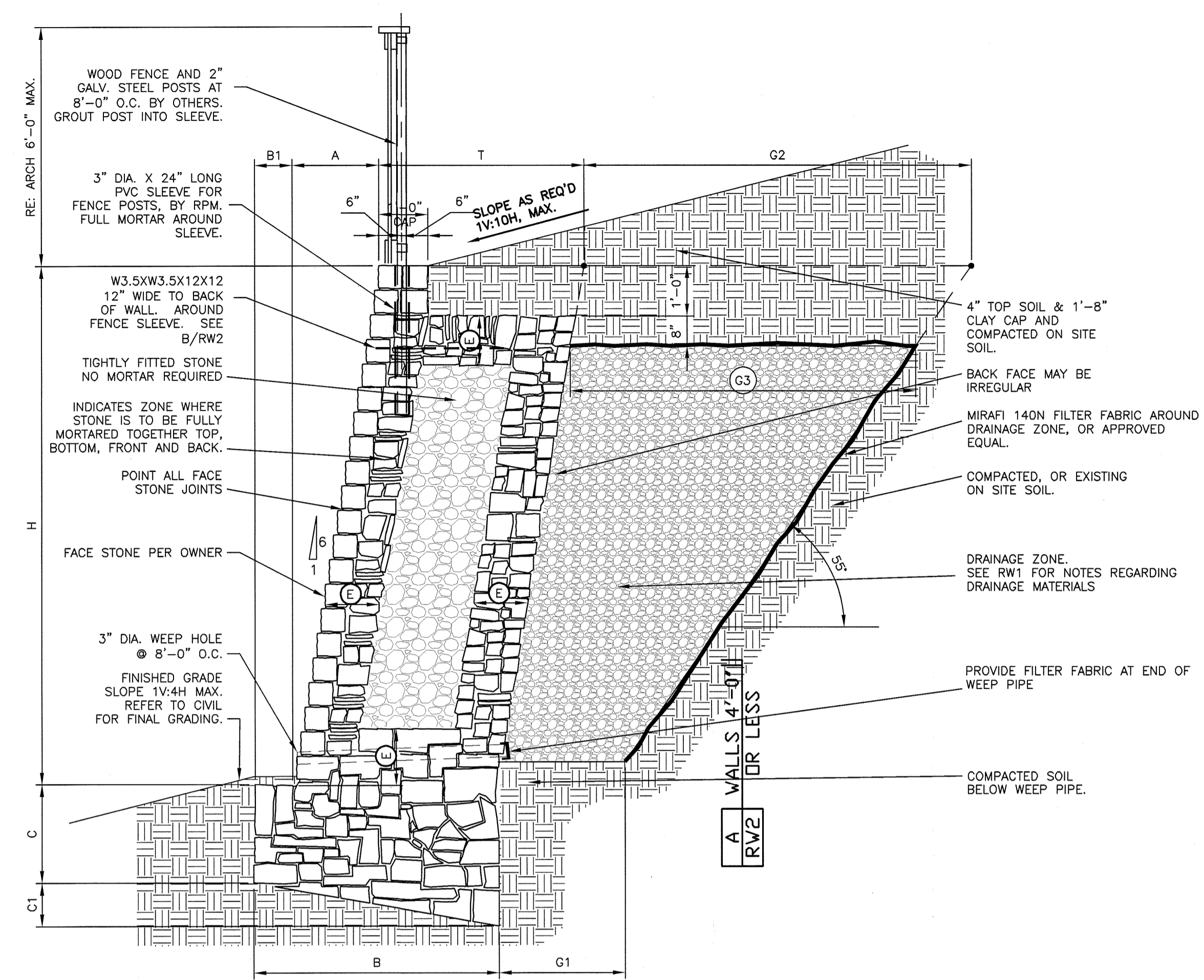


MASONRY WALL SCHEDULE												
1500 psf - BEARING CAPACITY (STIFF NATURAL UNDISTURBED SOILS OR COMPACTED AND TESTED SOILS SEE GENERAL NOTES SHEET RW1)												
WALL HEIGHT H	BASE WIDTH B	TOE B1	BASE DEPTH (TOE) C	BASE DEPTH (HEEL) C1	BATTER A	FULLY MORTARED ZONE E	THICKNESS OF WALL T	GRAVEL (BOTTOM) G1	GRAVEL (TOP) G2	GRAVEL G3	VOLUME GRAVEL cf/ft	BEARING CAPACITY
1'-0"	1'-0"	0'-0"	1'-0"	0'-2"	0'-2"	FULLY MORTARED	1'-0"	SEE A/RW2	SEE A/RW2	SEE A/RW2	N/A	1500 psf
2'-0"	1'-2"	0'-2"	1'-0"	0'-3"	0'-4"	FULLY MORTARED	1'-0"	SEE A/RW2	SEE A/RW2	SEE A/RW2	N/A	
3'-0"	1'-8"	0'-4"	1'-0"	0'-4"	0'-6"	FULLY MORTARED	1'-4"	SEE A/RW2	SEE A/RW2	SEE A/RW2	N/A	
4'-0"	2'-3"	0'-5"	1'-0"	0'-5"	0'-8"	FULLY MORTARED	1'-10"	SEE A/RW2	SEE A/RW2	SEE A/RW2	N/A	
5'-0"	2'-3"	0'-5"	1'-3"	0'-6"	0'-10"	0'-8"	1'-10"	1'-6"	3'-11"	3'-0"	6.4	
6'-0"	2'-7"	0'-6"	1'-6"	0'-6"	1'-0"	0'-10"	2'-1"	1'-8"	4'-7"	3'-9"	10.3	
7'-0"	3'-1"	0'-8"	1'-9"	0'-7"	1'-2"	0'-10"	2'-5"	1'-10"	5'-4"	4'-5"	15.1	
8'-0"	3'-8"	0'-10"	2'-0"	0'-8"	1'-4"	1'-0"	2'-10"	2'-0"	6'-0"	5'-2"	20.8	

WALL DESIGN CRITERIA							
BEARING Q _a	SLOPE TOP β	SLOPE BOT β ₁	ACTIVE PRESSURE WALLS C ₄ '	ACTIVE PRESSURE WALLS S ₄ '	PASSIVE PRESSURE P _p	FRICTION ANGLE BASE α	SLOPE OF BACK OF WALL α ₁
1500PSF	5.71 deg	14 deg	26 deg	35 deg	26 deg	17 deg	99.46 deg

USE THIS SCHEDULE FOR 2/RW2

2 RW2 TYPICAL WALL SECTION - 1V:10H MAX SLOPE ABOVE WALL BEARING IN CLAYEY SOILS



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 B1	BASE DEPTH (TOE) C	BASE DEPTH (HEEL) C1	BATTER A	FULLY MORTARED ZONE E	THICKNESS OF WALL T	GRAVEL (BOTTOM) G1	GRAVEL (TOP) G2	GRAVEL G3	VOLUME GRAVEL cf/ft	BEARING CAPACITY
1'-0"	2'-0"	0'-3"	1'-0"	0'-2"	0'-2"	FULLY MORTARED	1'-9"	SEE A/RW2	SEE A/RW2	SEE A/RW2	N/A	1500 psf
2'-0"	2'-0"	0'-3"	1'-0"	0'-3"	0'-4"	FULLY MORTARED	1'-9"	SEE A/RW2	SEE A/RW2	SEE A/RW2	N/A	
3'-0"	2'-0"	0'-3"	1'-0"	0'-4"	0'-6"	FULLY MORTARED	1'-9"	SEE A/RW2	SEE A/RW2	SEE A/RW2	N/A	
4'-0"	2'-3"	0'-3"	1'-0"	0'-5"	0'-8"	FULLY MORTARED	2'-0"	SEE A/RW2	SEE A/RW2	SEE A/RW2	N/A	
5'-0"	2'-5"	0'-5"	1'-3"	0'-6"	0'-10"	0'-8"	2'-0"	1'-6"	3'-11"	3'-0"	6.4	
6'-0"	2'-9"	0'-6"	1'-6"	0'-6"	1'-0"	0'-10"	2'-3"	1'-8"	4'-7"	3'-9"	10.3	
7'-0"	3'-1"	0'-8"	1'-9"	0'-7"	1'-2"	0'-10"	2'-5"	1'-10"	5'-4"	4'-5"	15.1	
8'-0"	3'-8"	0'-10"	2'-0"	0'-8"	1'-4"	1'-0"	2'-10"	2'-0"	6'-0"	5'-2"	20.8	

WALL DESIGN CRITERIA							
BEARING Q _a	SLOPE TOP β	SLOPE BOT β ₁	ACTIVE PRESSURE P _a	PASSIVE PRESSURE P _p	FRICTION ANGLE BASE α	SLOPE OF BACK OF WALL α ₁	WIND LOAD W _i
1500PSF	5.71 deg	14 deg	35 deg	26 deg	17 deg	99.46 deg	15 psf

USE THIS SCHEDULE FOR 1/RW2

1 RW2 TYPICAL WALL SECTION - 1V:10H MAX SLOPE ABOVE WALL BEARING IN CLAYEY SOILS WITH 6'-0" WOOD FENCE IN WALL

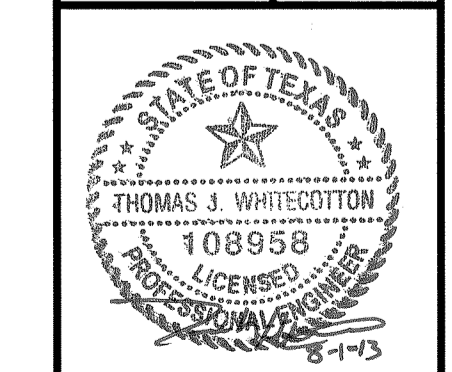
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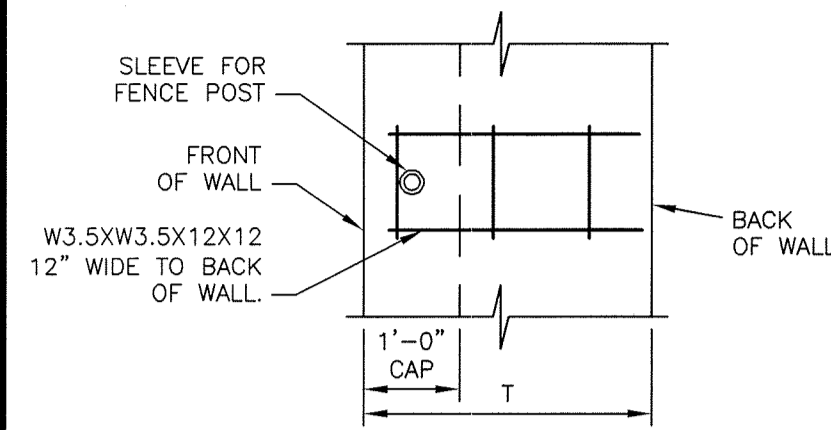
MASONRY RETAINING WALLS
 STONE CREEK - PHASE 4
 OFF HARVARD DRIVE
 ROCKWALL, TEXAS

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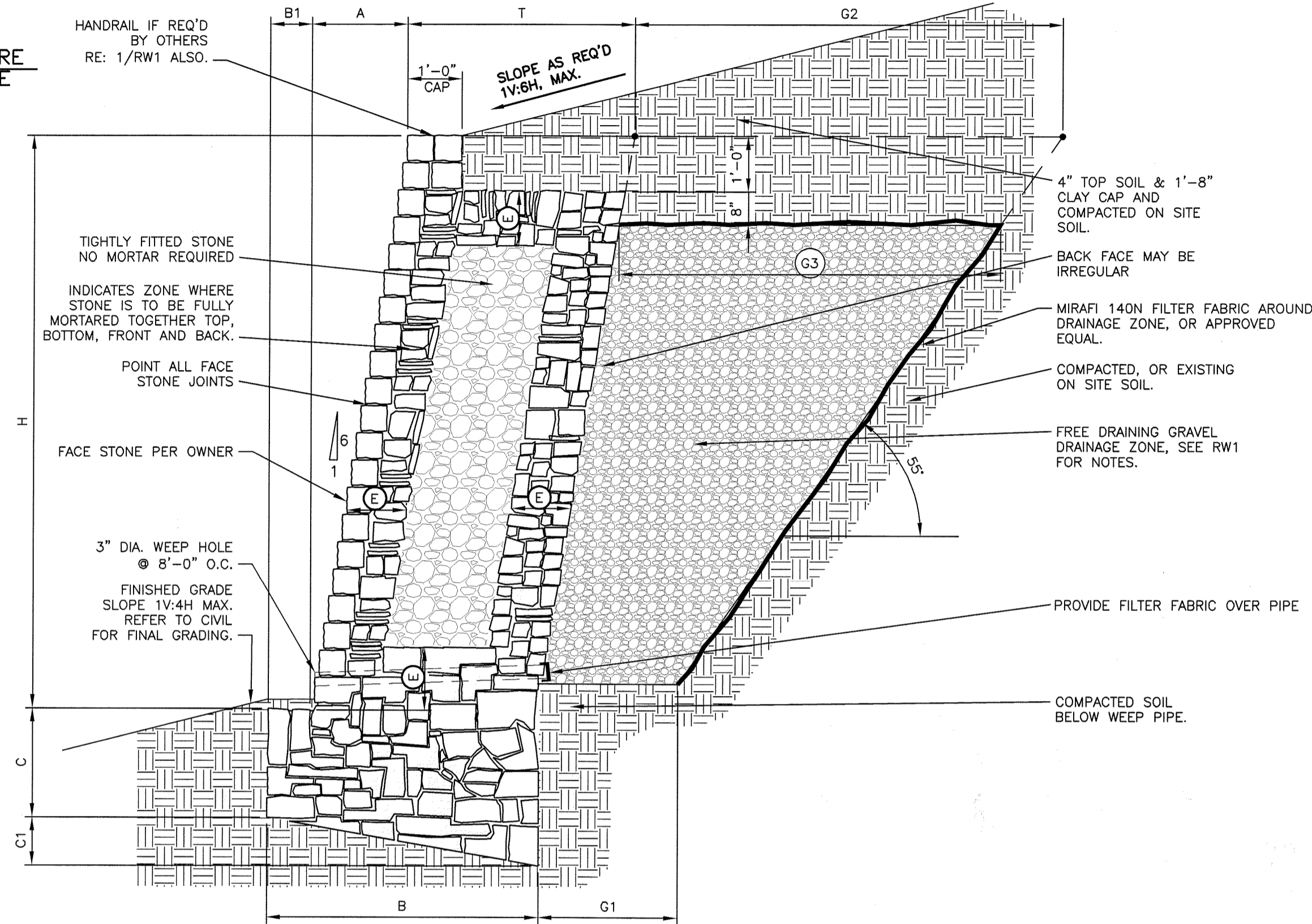
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RW2



A ELEVATION OF WELDED WIRE FABRIC FOR FENCE SLEEVE
RW3

NOTE: THIS SCHEDULE MAY BE USED FOR WALLS WITH WOOD FENCE ABOVE WALL. IS WOOD FENCE IS TO BE PLACED IN WALL, PROVIDE WIRE AT TOP OF WALL AS SHOWN IN DETAIL A/RW3. SEE 1/RW2 FOR DETAIL SHOWING WOOD FENCE IN WALL.



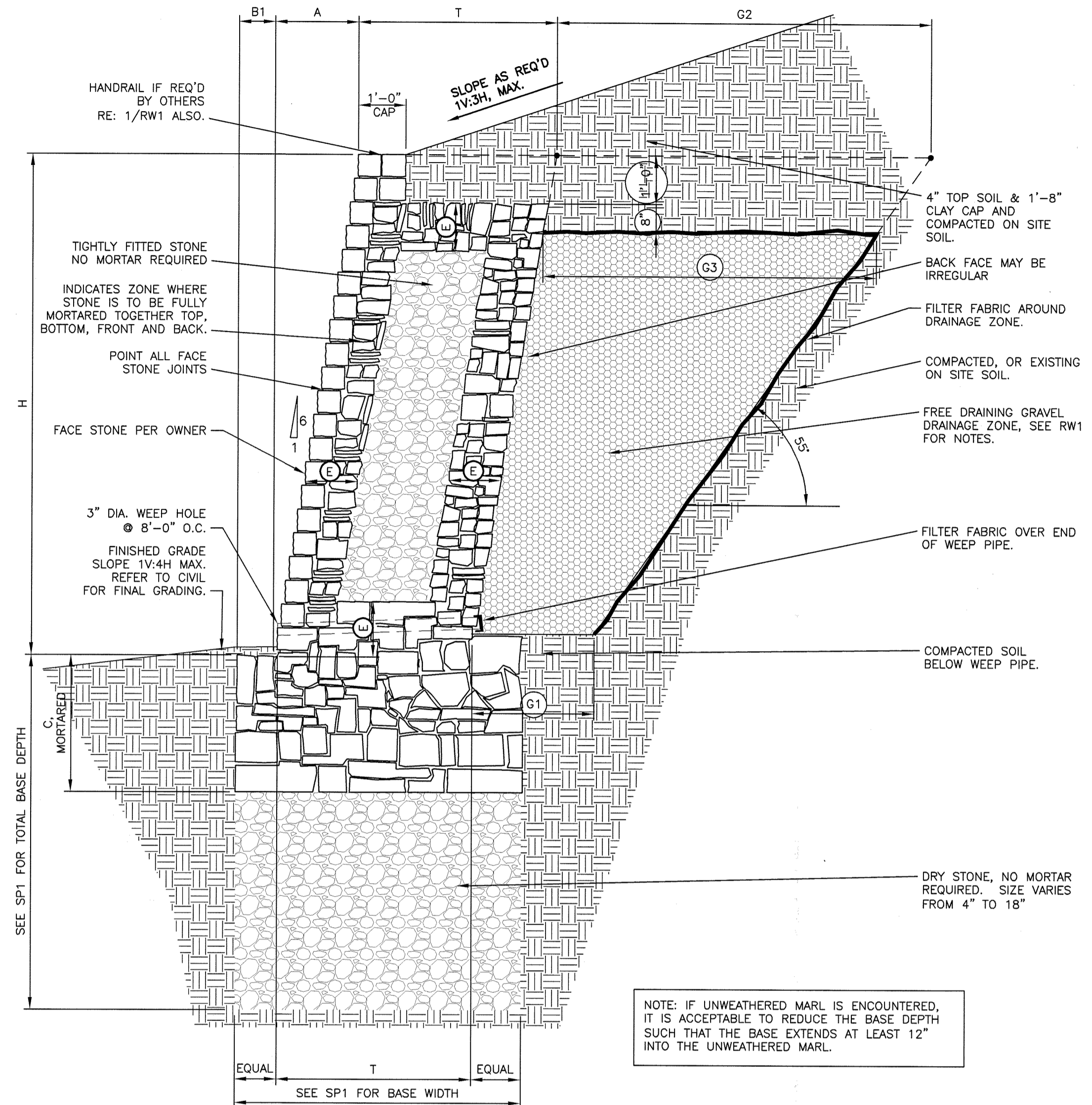
MASONRY WALL SCHEDULE											
1500 psf - BEARING CAPACITY (STIFF NATURAL UNDISTURBED SOILS OR COMPACTED AND TESTED SOILS SEE GENERAL NOTES SHEET RW1)											
WALL HEIGHT H	BASE WIDTH B	TOE B1	BASE DEPTH (TOE) C1	BASE DEPTH (HEEL) C2	BATTER A	FULLY MORTARED ZONE E	THICKNESS OF WALL T	GRAVEL (BOTTOM) G1	GRAVEL (TOP) G2	GRAVEL G3	BEARING CAPACITY
5'-0"	2'-5"	0'-5"	1'-3"	0'-6"	0'-10"	0'-8"	2'-0"	1'-6"	3'-11"	3'-0"	6.4
6'-0"	2'-10"	0'-6"	1'-8"	0'-7"	1'-0"	0'-10"	2'-4"	1'-8"	4'-7"	3'-9"	10.3
7'-0"	3'-5"	0'-7"	1'-9"	0'-8"	1'-2"	0'-10"	2'-10"	1'-10"	5'-4"	4'-5"	15.1
8'-0"	4'-0"	0'-8"	2'-6"	0'-9"	1'-4"	1'-0"	3'-4"	2'-0"	6'-0"	5'-2"	20.8
9'-0"	4'-6"	0'-9"	2'-9"	0'-10"	1'-6"	1'-0"	3'-9"	2'-2"	6'-9"	5'-10"	27.4
10'-0"	5'-0"	0'-10"	3'-0"	0'-11"	1'-8"	1'-2"	4'-2"	2'-5"	7'-5"	6'-7"	34.9

WALL DESIGN CRITERIA							
BEARING q_u	SLOPE TOP β	SLOPE BOT β_1	ACTIVE PRESSURE q_a	PASSIVE PRESSURE q_p	FRICTION ANGLE BASE δ	SLOPE OF BACK OF WALL α	SURCHARGE q_s
1500PSF	9.46 deg	14 deg	35 deg	26 deg	17 deg	99.46 deg	0 psf

USE THIS SCHEDULE FOR 2/RW3

2
RW3

TYPICAL WALL SECTION - 1V:1.6H MAX SLOPE ABOVE WALL BEARING IN CLAYEY SOILS



MASONRY WALL SCHEDULE										
2500 psf - BEARING CAPACITY (REMEDIATED BASE - SEE GENERAL NOTES SHEET RW1)										
WALL HEIGHT H	MORTARED BASE DEPTH Q	BATTER A	FULLY MORTARED ZONE E	THICKNESS OF WALL T	GRAVEL (BOTTOM) G1	GRAVEL (TOP) G2	GRAVEL G3	VOLUME GRAVEL cf/ft	BEARING CAPACITY	
1'-0"	1'-0"	0'-2"	FULLY MORTARED	1'-0"	1'-0"	1'-0"	1'-0"	1.0	2500 psf	
2'-0"	1'-3"	0'-4"	FULLY MORTARED	1'-0"	1'-0"	1'-0"	1'-0"	1.0	2500 psf	
3'-0"	1'-6"	0'-6"	FULLY MORTARED	1'-5"	1'-2"	2'-6"	1'-7"	1.1	2500 psf	
4'-0"	1'-9"	0'-8"	FULLY MORTARED	1'-9"	1'-4"	3'-2"	2'-4"	3.3	2500 psf	
5'-0"	2'-0"	0'-10"	FULLY MORTARED	2'-0"	1'-6"	3'-11"	3'-0"	6.4	2500 psf	
6'-0"	2'-3"	1'-0"	0'-10"	2'-5"	1'-8"	4'-7"	3'-9"	10.3	2500 psf	
7'-0"	2'-6"	1'-2"	0'-10"	2'-11"	1'-10"	5'-4"	4'-5"	15.1	2500 psf	
8'-0"	2'-9"	1'-4"	1'-0"	3'-4"	2'-0"	6'-0"	5'-2"	20.8	2500 psf	

WALL DESIGN CRITERIA							
BEARING q_u	SLOPE TOP β	SLOPE BOT β_1	ACTIVE PRESSURE WALLS <4' q_a	ACTIVE PRESSURE WALLS >4' q_a	PASSIVE PRESSURE q_p	FRICTION ANGLE BASE δ	SLOPE OF BACK OF WALL α
2500PSF	18.4 deg	14 deg	26 deg	35 deg	26 deg	17 deg	99.46 deg

USE THIS SCHEDULE FOR 1/RW3

1
RW3

TYPICAL WALL SECTION - GLOBAL STABILITY BASE 1V:1.3H MAX SLOPE ABOVE WALL BEARING IN CLAYEY SOILS

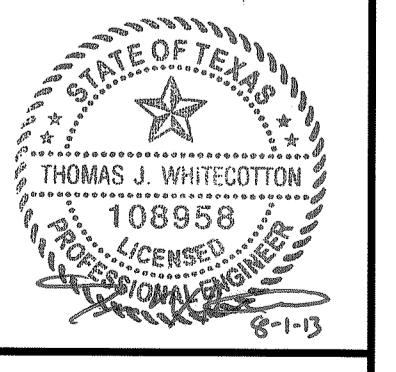
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MASONRY RETAINING WALLS
STONE CREEK - PHASE 4
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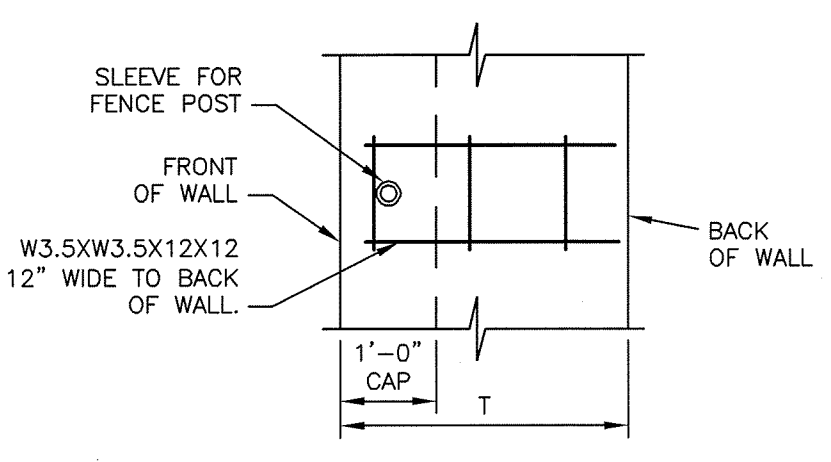
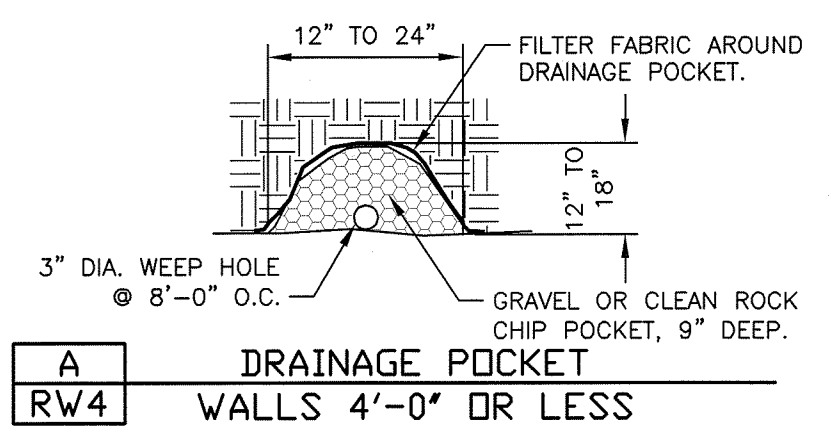
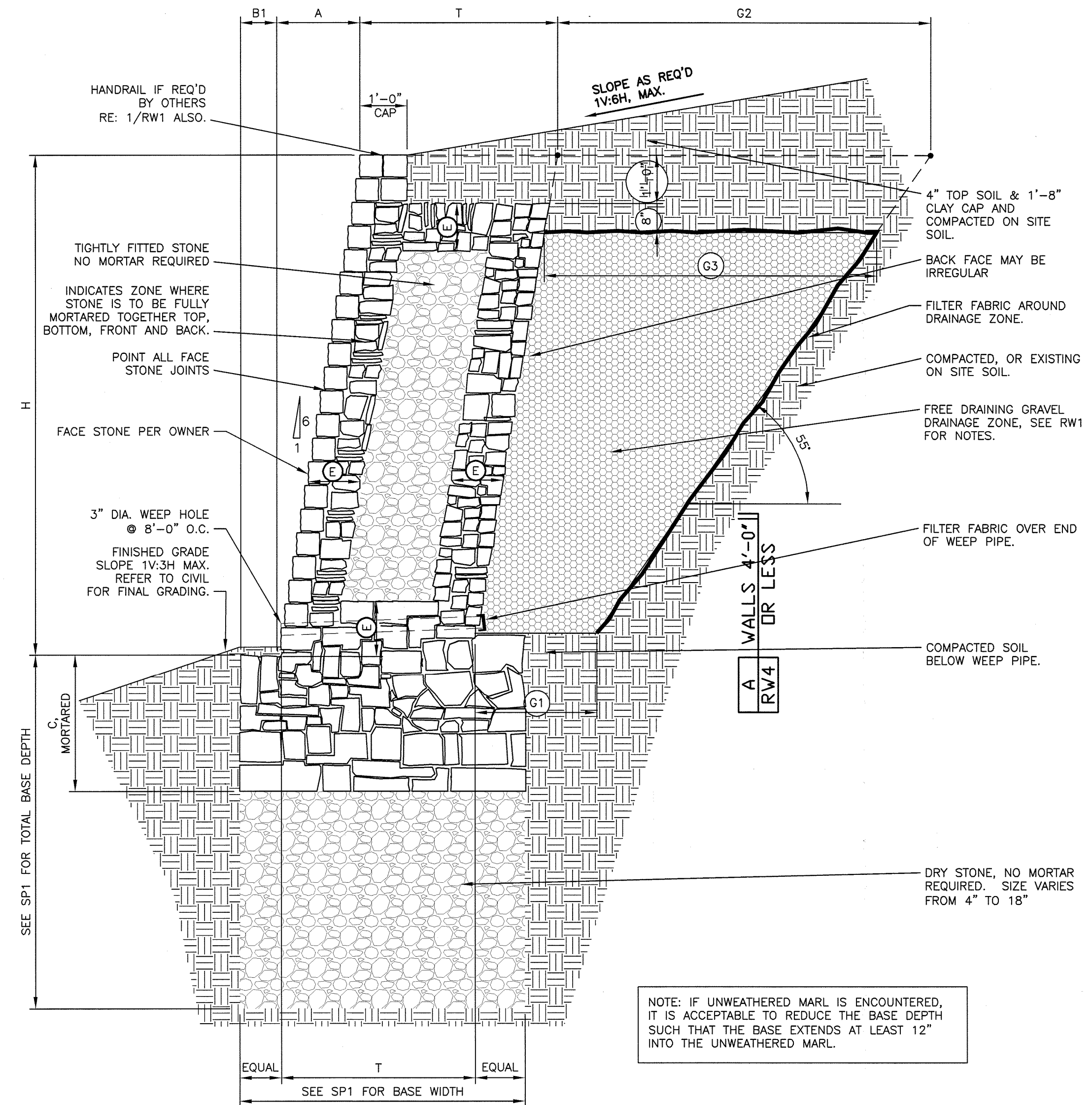
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RW3

NOTE: THIS SCHEDULE MAY BE USED FOR WALLS WITH WOOD FENCE ABOVE WALL. IS WOOD FENCE IS TO BE PLACED IN WALL, PROVIDE WIRE AT TOP OF WALL AS SHOWN IN DETAIL B/RW4. SEE 1/RW2 FOR DETAIL SHOWING WOOD FENCE IN WALL.



MASONRY WALL SCHEDULE
2500 psf - BEARING CAPACITY (REMEDIATED BASE - SEE GENERAL NOTES SHEET RW1)

WALL HEIGHT H	BASE DEPTH (FOE) C	BATTER A	THICKNESS OF WALL IF FULLY MORTARED E	THICKNESS OF WALL WITH WOOD FENCE ABOVE WALL T	THICKNESS OF WALL WITH WOOD FENCE ABOVE WALL Tw	GRAVEL (BOTTOM) G1	GRAVEL (TOP) G2	GRAVEL G3	VOLUME GRAVEL OF/R	BEARING CAPACITY
1'-0"	0'-9"	0'-2"	FULLY MORTARED	1'-0"	1'-9"	SEE A/RW4	SEE A/RW4	SEE A/RW4	N/A	1500 psf
2'-0"	1'-0"	0'-4"	FULLY MORTARED	1'-0"	1'-9"	SEE A/RW4	SEE A/RW4	SEE A/RW4	N/A	1500 psf
3'-0"	1'-0"	0'-6"	FULLY MORTARED	1'-5"	1'-9"	SEE A/RW4	SEE A/RW4	SEE A/RW4	N/A	1500 psf
4'-0"	1'-3"	0'-8"	FULLY MORTARED	1'-9"	1'-11"	SEE A/RW4	SEE A/RW4	SEE A/RW4	N/A	1500 psf
5'-0"	1'-6"	0'-10"	FULLY MORTARED	2'-0"	2'-2"	1'-8"	3'-11"	3'-0"	6.4	1500 psf
6'-0"	2'-0"	1'-0"	0'-10"	2'-5"	2'-5"	1'-8"	4'-7"	3'-9"	10.3	1500 psf
7'-0"	2'-3"	1'-2"	0'-10"	2'-11"	2'-11"	1'-10"	5'-4"	4'-5"	15.1	1500 psf
8'-0"	2'-6"	1'-4"	1'-0"	3'-4"	3'-4"	2'-0"	6'-0"	5'-2"	20.8	1500 psf
9'-0"	2'-9"	1'-6"	1'-0"	3'-7"	3'-7"	2'-2"	6'-9"	5'-10"	27.4	1500 psf
10'-0"	3'-0"	1'-8"	1'-2"	3'-10"	3'-10"	2'-5"	7'-5"	6'-7"	34.9	1500 psf
11'-0"	3'-3"	1'-10"	1'-2"	4'-1"	4'-1"	2'-7"	8'-2"	7'-3"	43.3	1500 psf
12'-0"	3'-6"	2'-0"	1'-4"	4'-6"	4'-6"	2'-9"	8'-10"	8'-0"	52.5	1500 psf

WALL DESIGN CRITERIA

BEARING Q _u	SLOPE TOP β	SLOPE BOT β ₁	ACTIVE PRESSURE WALLS <4' H	ACTIVE PRESSURE WALLS >4' H	PASSIVE PRESSURE β _p	FRICTION ANGLE δ	SLOPE OF BACK OF WALL α	SURCHARGE q
2500PSF	9.46 deg	18.4 deg	26 deg	35 deg	26 deg	17 deg	99.46 deg	0 psf

USE THIS SCHEDULE FOR 1/RW4

NOTE: IF WOOD FENCE IS TO BE PLACED IN WALL, CONSTRUCT WALL USING SCHEDULE "Tw". IF NO WOOD FENCE IS ABOVE WALL, THE WALL MAY BE CONSTRUCTED USING SCHEDULE "T".

1 RW4 TYPICAL WALL SECTION - GLOBAL STABILITY BASE
1V:6H MAX SLOPE ABOVE WALL
BEARING IN CLAYEY SOILS

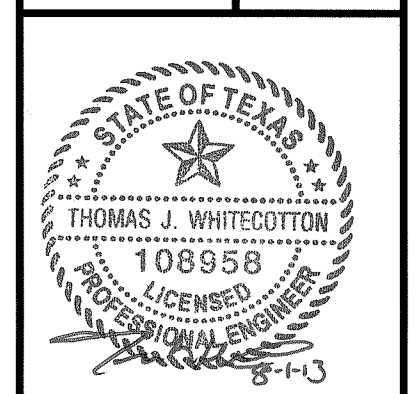
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MASONRY RETAINING WALLS
STONE CREEK - PHASE 4
OFF HARVARD DRIVE
ROCKWALL, TEXAS

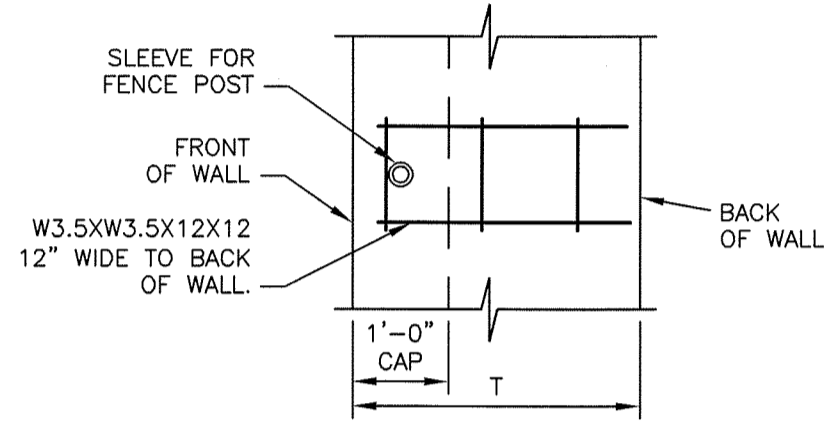
RPM x CONSTRUCTION, LLC
PLANO, TEXAS



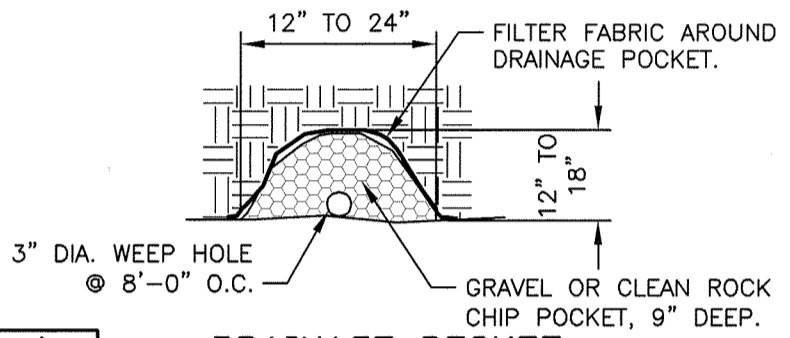
JOB NO. 122.13

RW4

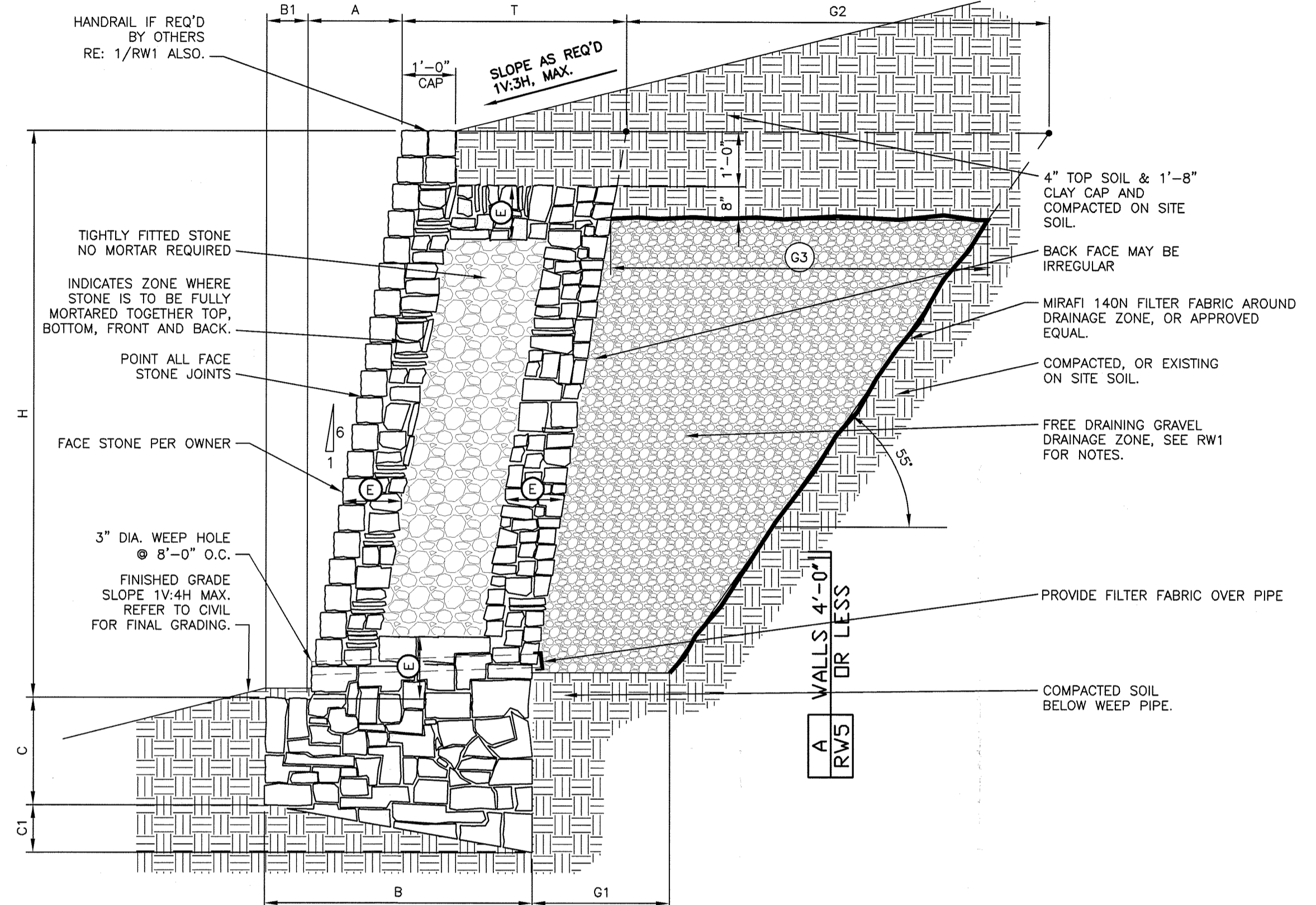
NOTE: THIS SCHEDULE MAY BE USED FOR WALLS WITH WOOD FENCE ABOVE WALL. IS WOOD FENCE IS TO BE PLACED IN WALL, PROVIDE WIRE AT TOP OF WALL AS SHOWN IN DETAIL B/RWS. SEE 1/RW2 FOR DETAIL SHOWING WOOD FENCE IN WALL.



B ELEVATION OF WELDED WIRE FABRIC FOR FENCE SLEEVE
RW5



A DRAINAGE POCKET WALLS 4'-0" OR LESS
RW5



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 B1	BASE DEPTH (TOE) C	BASE DEPTH (HEEL) C1	BATTER A	FULLY MORTARED ZONE E	THICKNESS OF WALL T	GRAVEL (BOTTOM) G1	GRAVEL (TOP) G2	GRAVEL G3	VOLUME GRAVEL cf/ft	BEARING CAPACITY
4'-0"	3'-4"	0'-5"	1'-0"	0'-5"	0'-8"	1'-0"	2'-11"	SEE A/RWS	SEE A/RWS	SEE A/RWS	N/A	1500 psf
5'-0"	3'-11"	0'-5"	1'-3"	0'-6"	0'-10"	0'-8"	3'-6"	1'-6"	3'-11"	3'-0"	6.4	
6'-0"	4'-3"	0'-6"	1'-6"	0'-7"	1'-0"	0'-10"	3'-9"	1'-8"	4'-7"	3'-9"	10.3	
7'-0"	4'-7"	0'-7"	1'-9"	0'-8"	1'-2"	0'-10"	4'-0"	1'-10"	5'-4"	4'-5"	15.1	

WALL DESIGN CRITERIA						
BEARING Q_u	SLOPE TOP β	SLOPE BOT β_1	ACTIVE PRESSURE α	PASSIVE PRESSURE β_2	FRICTION ANGLE BASE δ	SURCHARGE q
1500PSF	18.4 deg	14 deg	35 deg	26 deg	17 deg	99.46 deg

USE THIS SCHEDULE FOR 1/RWS

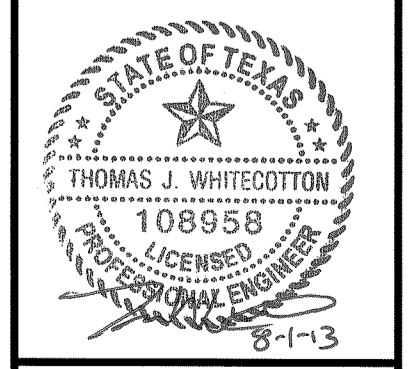
1 RW5 TYPICAL WALL SECTION - 1V:3H MAX SLOPE ABOVE WALL BEARING IN CLAYEY SOILS

DATE	BY	NO.	DATE	REVISION	BY
08-01-13	TJW				
08-01-13	TJW				
08-01-13	AMB				

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MASONRY RETAINING WALLS
STONE CREEK - PHASE 4
OFF HARVARD DRIVE
ROCKWALL, TEXAS
RPM xCONSTRUCTION, LLC
PLANO, TEXAS



JOB NO. 122.13
RW5