

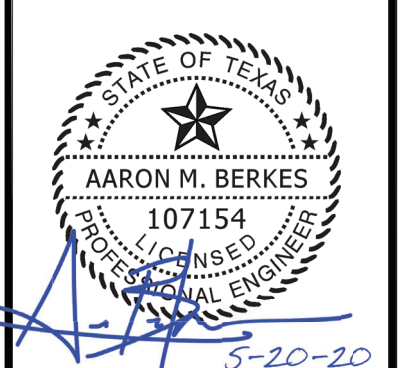
DATE	BY	NO.	DATE	REVISION
05-19-17	MMR			
05-19-17	MMR	2	10-11-17	UPDATED GRADING PLANS
05-19-17	AMB	1	07-17-17	UPDATED GRADING PLANS AND WALL DETAILS
				BY

Falkofske Engineering, Inc.
Structural Engineering Consultants
TX Reg. Engineering Firm F-4038
722 North Fielder Road
Arlington, Texas 76012
(817) 261-8300

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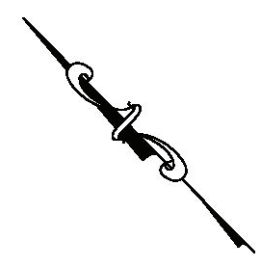
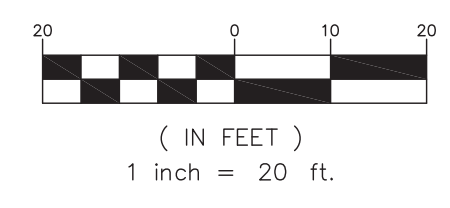
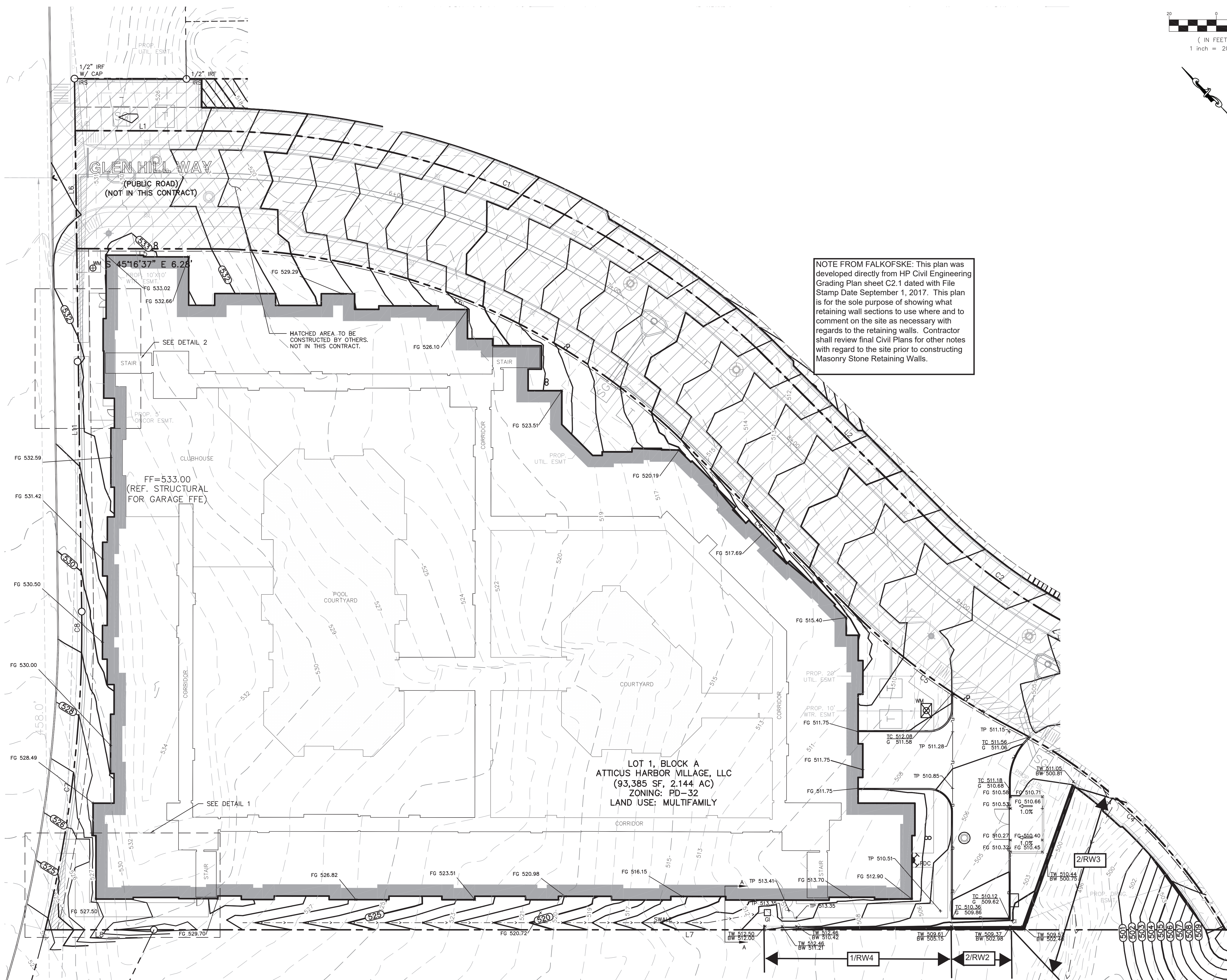
MASONRY RETAINING WALLS
HARBOR URBAN CENTER
SWC HORIZON ROAD AND SUMMER LEE DRIVE
ROCKWALL, TEXAS

WALCO RETAINING WALLS, INC.
4800 S.E. LOOP 820
FORT WORTH, TEXAS 76140



RECORD DRAWINGS
THIS DRAWING HAS BEEN REVISED TO SHOW THOSE CHANGES DURING THE CONSTRUCTION PROCESS REPORTED BY THE CONTRACTOR TO FALKOFSKE ENGINEERING, INC. AND CONSIDERED TO BE SIGNIFICANT. THIS DRAWING IS NOT GUARANTEED TO BE "AS BUILT" BUT IS BASED ON THE INFORMATION MADE AVAILABLE.
DATE: 05/20/2020 BY: Aaron Berkes, P.E.

JOB NO. 291.17
SP1



NOTE FROM FALKOFSKE: This plan was developed directly from HP Civil Engineering Grading Plan sheet C2.1 dated with File Stamp Date September 1, 2017. This plan is for the sole purpose of showing what retaining wall sections to use where and to comment on the site as necessary with regards to the retaining walls. Contractor shall review final Civil Plans for other notes with regard to the site prior to constructing Masonry Stone Retaining Walls.

LOT 1, BLOCK A
ATTICUS HARBOR MILLAGE, LLC
(93,385 SF, 2.144 AC)
ZONING: PD-32
LAND USE: MULTIFAMILY

FF=533.00
(REF. STRUCTURAL
FOR GARAGE FFE)

HATCHED AREA TO BE
CONSTRUCTED BY OTHERS.
NOT IN THIS CONTRACT.

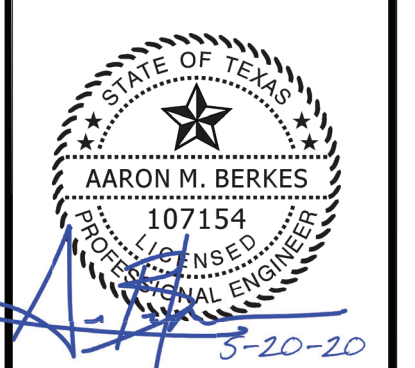
DATE	BY	DES.	DRN.	CHK.	NO.	DATE	REVISION
05-19-17	MMR				A	07-17-17	UPDATED GRADING PLANS AND WALL DETAILS
05-19-17	MMR				A	10-11-17	UPDATED GRADING PLANS
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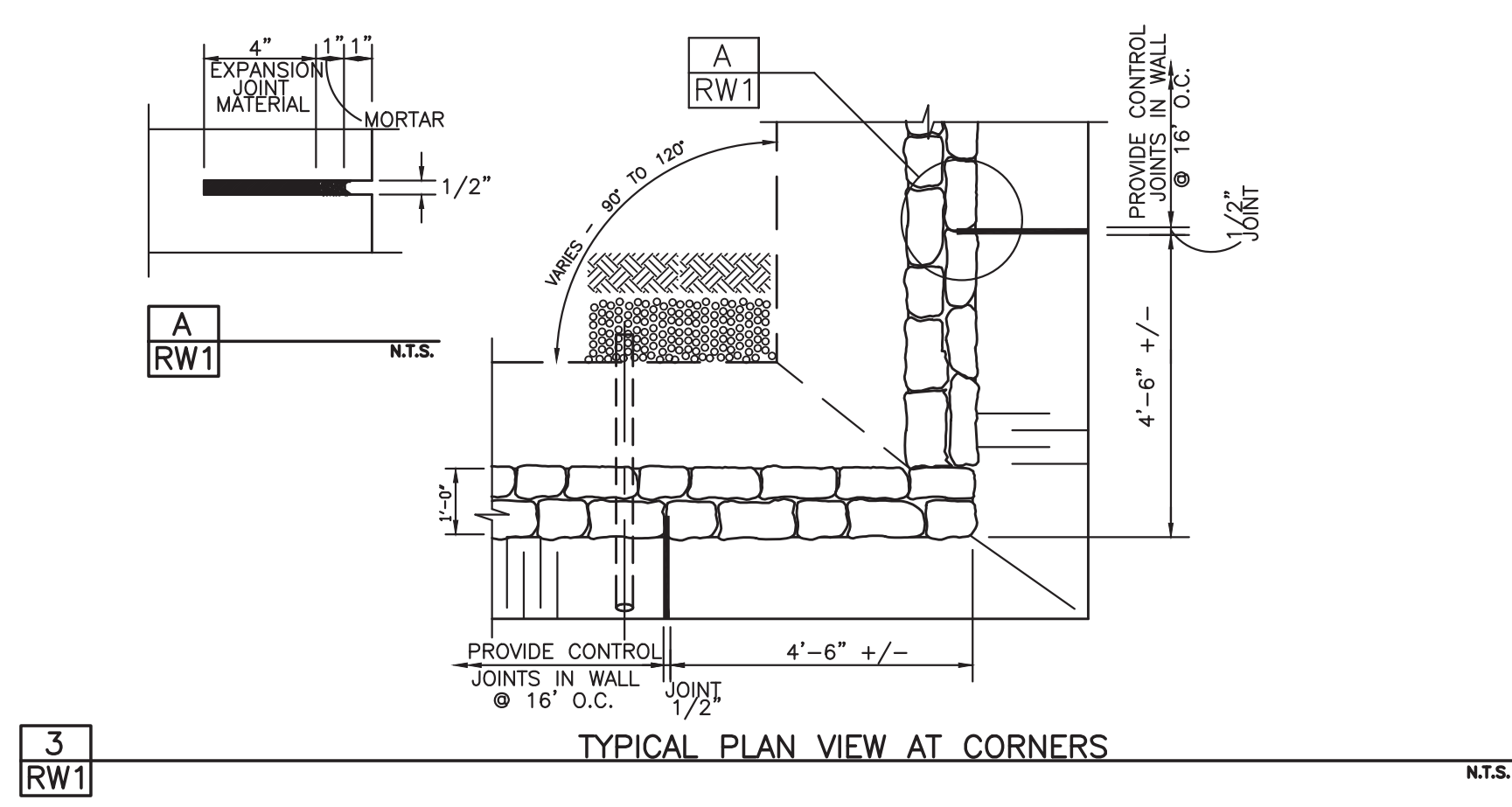
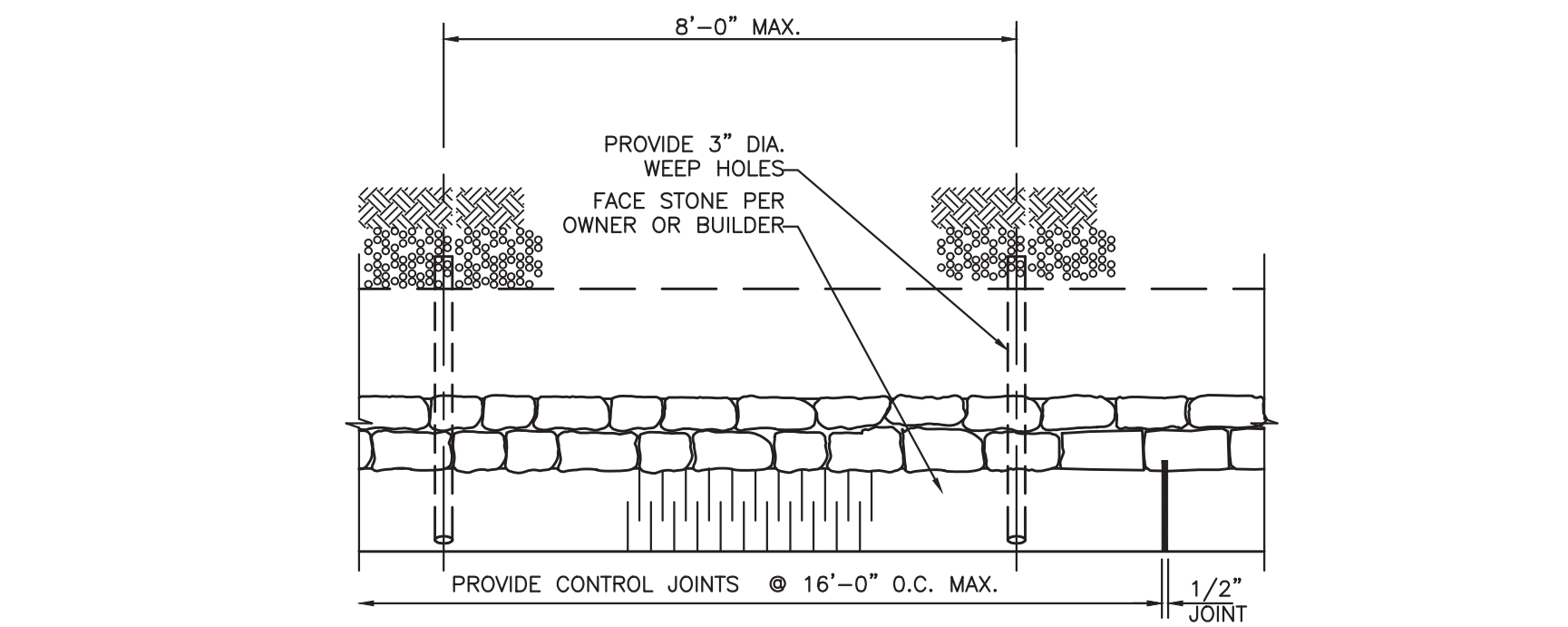
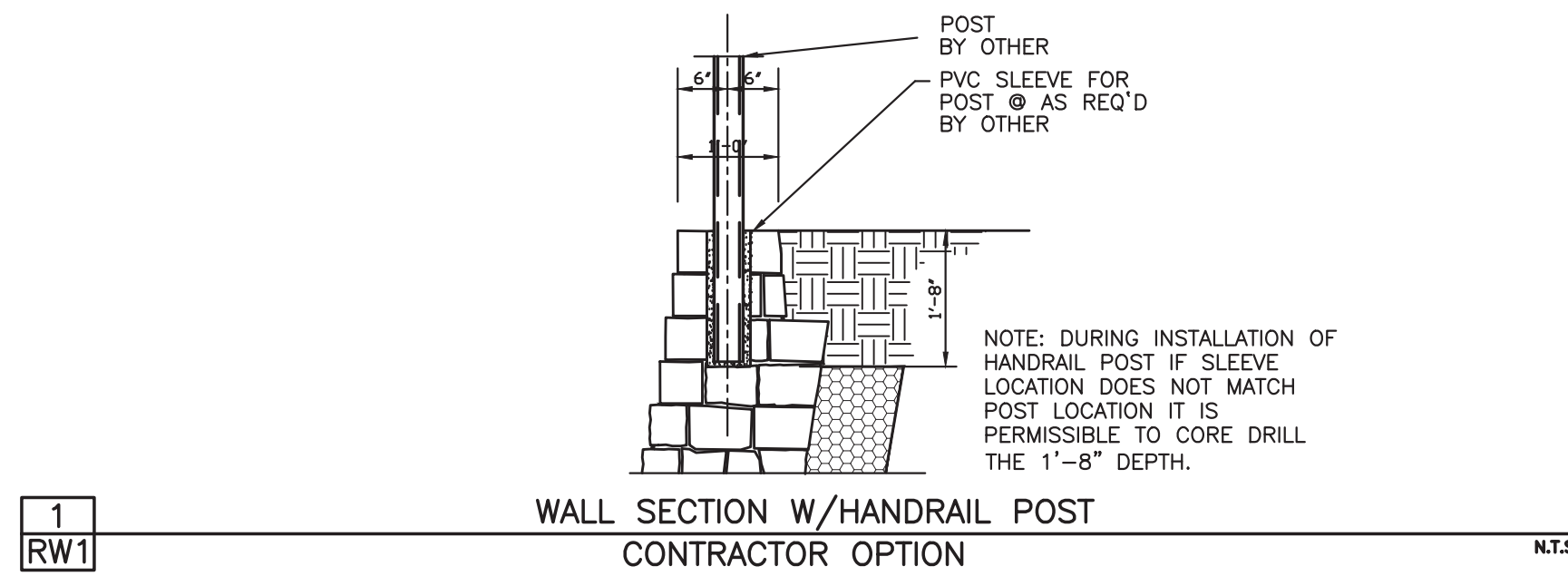
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MASONRY RETAINING WALLS
HARBOR URBAN CENTER
SWC HORIZON ROAD AND SUMMER LEE DRIVE
ROCKWALL, TEXAS
WALCO RETAINING WALLS, INC.
4800 S.E. LOOP 820
FORT WORTH, TEXAS 76140



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JOB NO. 291.17
SP2



1. Design Building Code

International Building Code, 2009 Edition

2. Geotechnical Report

Firm: ECS Texas, LLP
 Report No. 19-6898 Dated: August 12, 2016
 Allowable Bearing Capacity 1500psf, 2500psf

Note:
 All of the above noted bearing capacities are anticipated throughout the site. Each wall section has a design for multiple bearing capacity options. It will be field verified which bearing condition to use based on the conditions of the soil at the base of the wall during excavation. If the bearing capacity changes along the length of the retaining wall it is permitted to change bearing capacity designs as needed.

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 - On Site Soils
 Backfill On Site Soil Angle of Internal Friction PHI = 26 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 - On Site Soils
 Backfill Angle of Internal Friction PHI = 26 deg

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

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:

Rock for Wall Construction:

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 in place of natural stone. Face stone to be coordinated between contractor and owner/developer.

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. Drainage zone shall be wrapped with filter fabric. Filter fabric shall be Mirafix 140N or approved equal.

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:	375 lbs
Type F Fly Ash	94 lbs
Fine Aggregate (sand):	3250 lbs
Potable Water	235 lbs
Admixture Eucon 100	48 oz average

Concrete retarders such as "Eucon 100 Retarder" may be used at the discretion of the masonry wall contractor. A greater amount of retarder (about 64 ounces) is typically used during hot periods and a less amount of retarder (about 32 ounces) is typically used during cool weather.

Please note that the above proportions will provide a portland cement mortar with a compressive strength of about $f_c = 2500$ 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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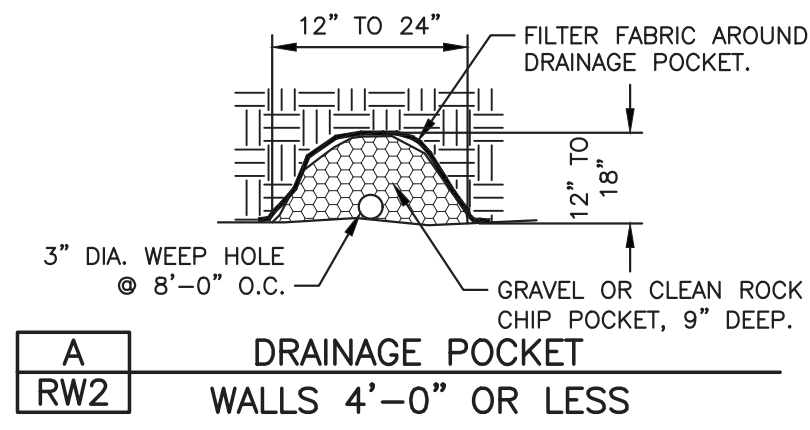
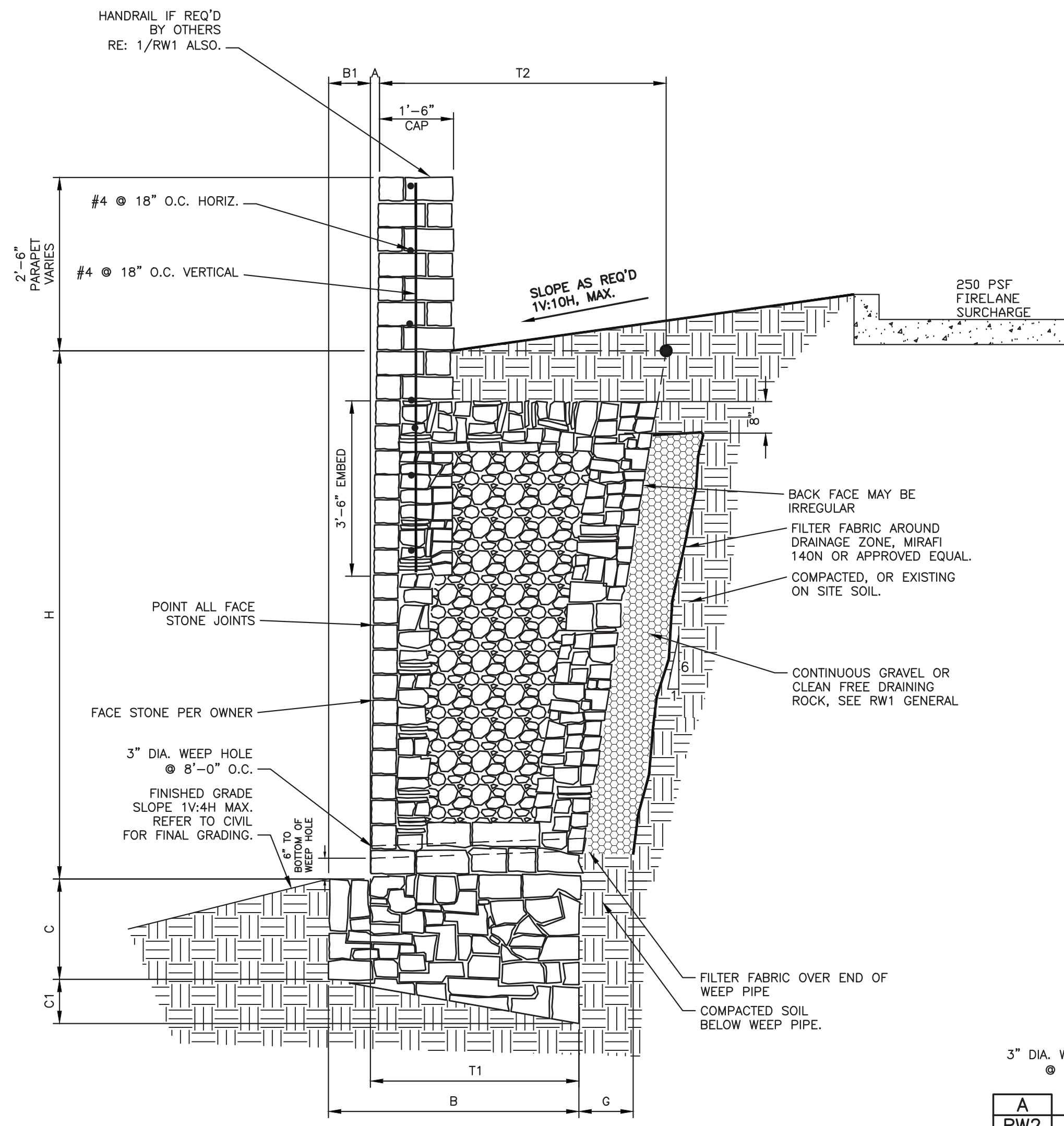
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MASONRY RETAINING WALLS - NOTES & STANDARD DETAILS
 HARBOR URBAN CENTER
 SWC HORIZON ROAD AND SUMMER LEE DRIVE
 ROCKWALL, TEXAS
 WALLCO RETAINING WALLS, INC.
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JOB NO. 291.17
 RW1



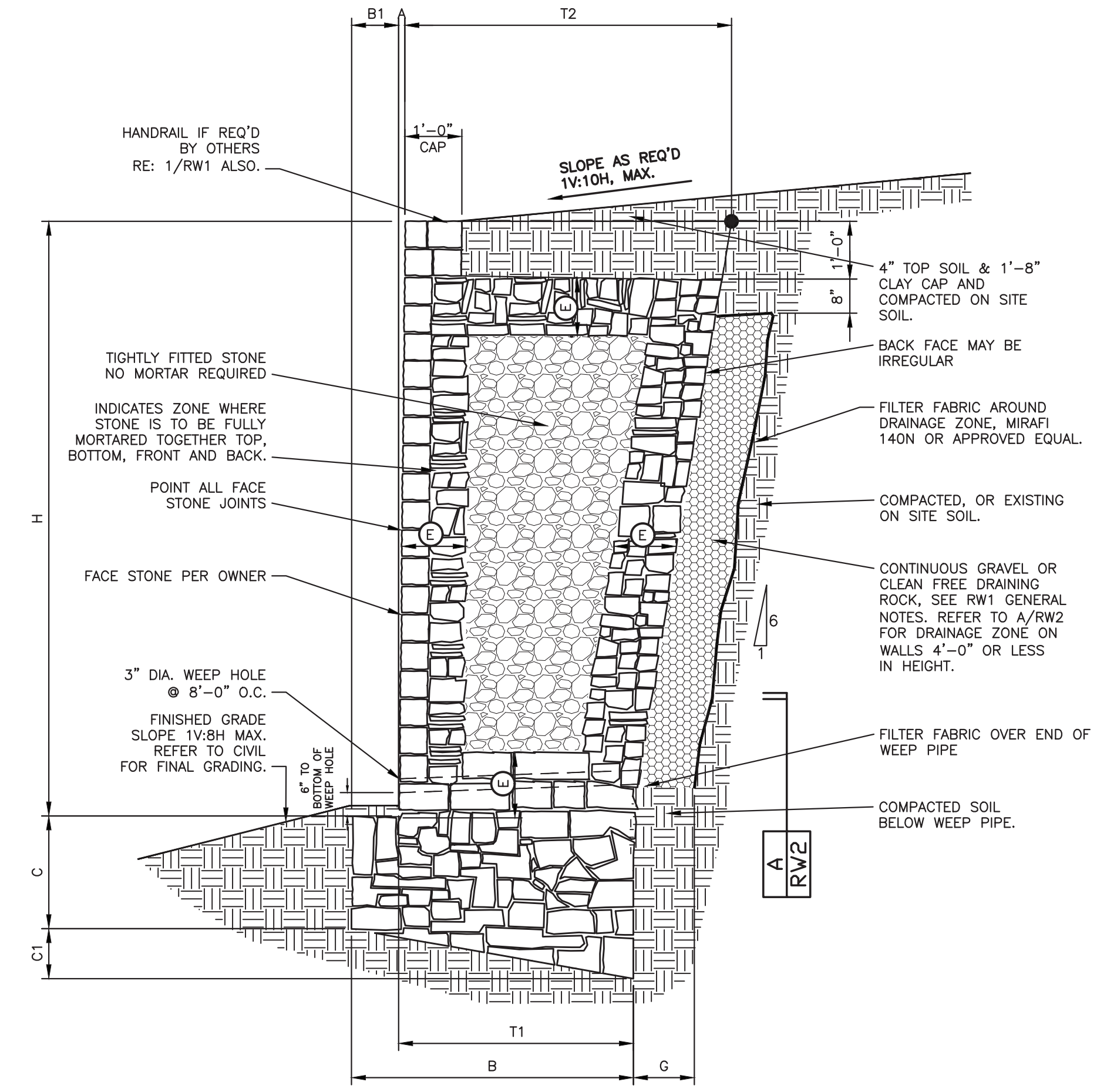
NOTE: RETAINING WALL HAS BEEN DESIGNED FOR VEHICULAR IMPACT LOADING AND FIRELANE SURCHARGE.

MASONRY WALL SCHEDULE										
1500 psf - BEARING CAPACITY (TYPICAL NATURAL UNDISTURBED SOILS OR COMPACTED AND TESTED SOILS SEE GENERAL NOTES SHEET RW1)										
WALL HEIGHT H	BASE WIDTH B	TOE DEPTH (TOE) B1	BASE DEPTH (HEEL) C	BASE DEPTH (HEEL) C1	BATTER A	FINISH MORTARED ZONE E	THICKNESS OF WALL T1	THICKNESS OF WALL T2	DRAINAGE ZONE THICKNESS G	BEARING CAPACITY
4'-0"	4'-0"	2'-6"	2'-6"	0'-9"	0'-1"	FINISH MORTARED	2'-0"	2'-8"	2'-0"	1500 psf
5'-0"	4'-6"	2'-6"	2'-6"	0'-10"	0'-1 1/4"	FINISH MORTARED	2'-6"	3'-4"	2'-0"	1500 psf
6'-0"	5'-3"	2'-6"	3'-0"	1'-0"	0'-1 1/2"	FINISH MORTARED	3'-0"	4'-0"	2'-0"	1500 psf
7'-0"	6'-3"	2'-9"	4'-0"	1'-2"	0'-1 3/4"	FINISH MORTARED	3'-6"	4'-8"	2'-0"	1950 psf
8'-0"	7'-0"	3'-3"	5'-0"	1'-4"	0'-2"	FINISH MORTARED	3'-9"	5'-1"	2'-0"	2200 psf
9'-0"	8'-3"	3'-9"	5'-9"	1'-6"	0'-2 1/4"	FINISH MORTARED	4'-6"	6'-0"	2'-0"	2500 psf
10'-0"	9'-3"	4'-3"	6'-6"	1'-8"	0'-2 1/2"	FINISH MORTARED	5'-0"	6'-8"	2'-0"	2700 psf
11'-0"	10'-6"	4'-9"	7'-6"	1'-10"	0'-2 3/4"	FINISH MORTARED	5'-9"	7'-7"	2'-0"	3000 psf
12'-0"	11'-3"	5'-3"	8'-3"	2'-0"	0'-3"	FINISH MORTARED	6'-0"	8'-0"	2'-0"	3250 psf
WALL DESIGN CRITERIA										
BEARING Qa	SLOPE TOP β	SLOPE BOT β1	ACTIVE PRESSURE Pa	PASSIVE PRESSURE Pp	FRICITION ANGLE δ	SLOPE OF BACK OF WALL α				SURCHARGE q
1500PSF	0 deg	14 deg	26 deg	26 deg	17 deg	99.46 deg				250 psf

USE THIS SCHEDULE FOR 2/RW2

2
RW2

TYPICAL VERTICAL WALL SECTION - FIRELANE AND VEHICULAR IMPACT BEARING IN CLAY



MASONRY WALL SCHEDULE										
1500 psf - BEARING CAPACITY (TYPICAL NATURAL UNDISTURBED SOILS OR COMPACTED AND TESTED SOILS SEE GENERAL NOTES SHEET RW1)										
WALL HEIGHT H	BASE WIDTH B	TOE DEPTH (TOE) B1	BASE DEPTH (HEEL) C	BASE DEPTH (HEEL) C1	BATTER A	FINISH MORTARED ZONE E	THICKNESS OF WALL T1	THICKNESS OF WALL T2	DRAINAGE ZONE THICKNESS G	BEARING CAPACITY
1'-0"	1'-0"	0'-0"	0'-6"	0'-2"	1/4"	FINISH MORTARED	1'-0"	1'-2"	SEE A/RW2	1500 psf
2'-0"	1'-2"	0'-2"	0'-9"	0'-3"	1/2"	FINISH MORTARED	1'-0"	1'-4"	SEE A/RW2	
3'-0"	1'-6"	0'-3"	0'-9"	0'-4"	3/4"	FINISH MORTARED	1'-3"	1'-9"	SEE A/RW2	
4'-0"	2'-1"	0'-5"	1'-0"	0'-5"	1"	FINISH MORTARED	1'-8"	2'-4"	SEE A/RW2	
5'-0"	2'-9"	0'-7"	1'-3"	0'-6"	0'-1 1/4"	FINISH MORTARED	2'-2"	3'-0"	2'-0"	
6'-0"	3'-5"	0'-10"	1'-6"	0'-8"	0'-1 1/2"	FINISH MORTARED	2'-7"	3'-7"	2'-0"	
7'-0"	4'-0"	1'-0"	1'-9"	0'-9"	0'-1 3/4"	FINISH MORTARED	3'-0"	4'-2"	2'-0"	
8'-0"	4'-10"	1'-4"	2'-0"	0'-11"	0'-2"	FINISH MORTARED	3'-6"	4'-10"	2'-0"	
9'-0"	5'-9"	1'-7"	2'-3"	1'-1"	0'-2 1/4"	FINISH MORTARED	4'-2"	5'-8"	2'-0"	
10'-0"	6'-5"	1'-10"	3'-0"	1'-2"	0'-2 1/2"	FINISH MORTARED	4'-7"	6'-3"	2'-0"	
11'-0"	7'-1"	2'-0"	3'-9"	1'-3"	0'-2 3/4"	FINISH MORTARED	5'-1"	6'-11"	2'-0"	
12'-0"	7'-10"	2'-3"	4'-6"	1'-5"	0'-3"	FINISH MORTARED	5'-7"	7'-7"	2'-0"	
WALL DESIGN CRITERIA										
BEARING Qa	SLOPE TOP β	SLOPE BOT β1	ACTIVE PRESSURE Pa	PASSIVE PRESSURE Pp	FRICITION ANGLE δ	SLOPE OF BACK OF WALL α				SURCHARGE q
1500PSF	5.71 deg	7.13 deg	26 deg	26 deg	17 deg	99.46 deg				0 psf

USE THIS SCHEDULE FOR 1/RW2

1
RW2

TYPICAL VERTICAL WALL SECTION - 1V:10H MAX SLOPE ABOVE WALL BEARING IN CLAYEY OR SANDY SOILS

RECORD DRAWINGS
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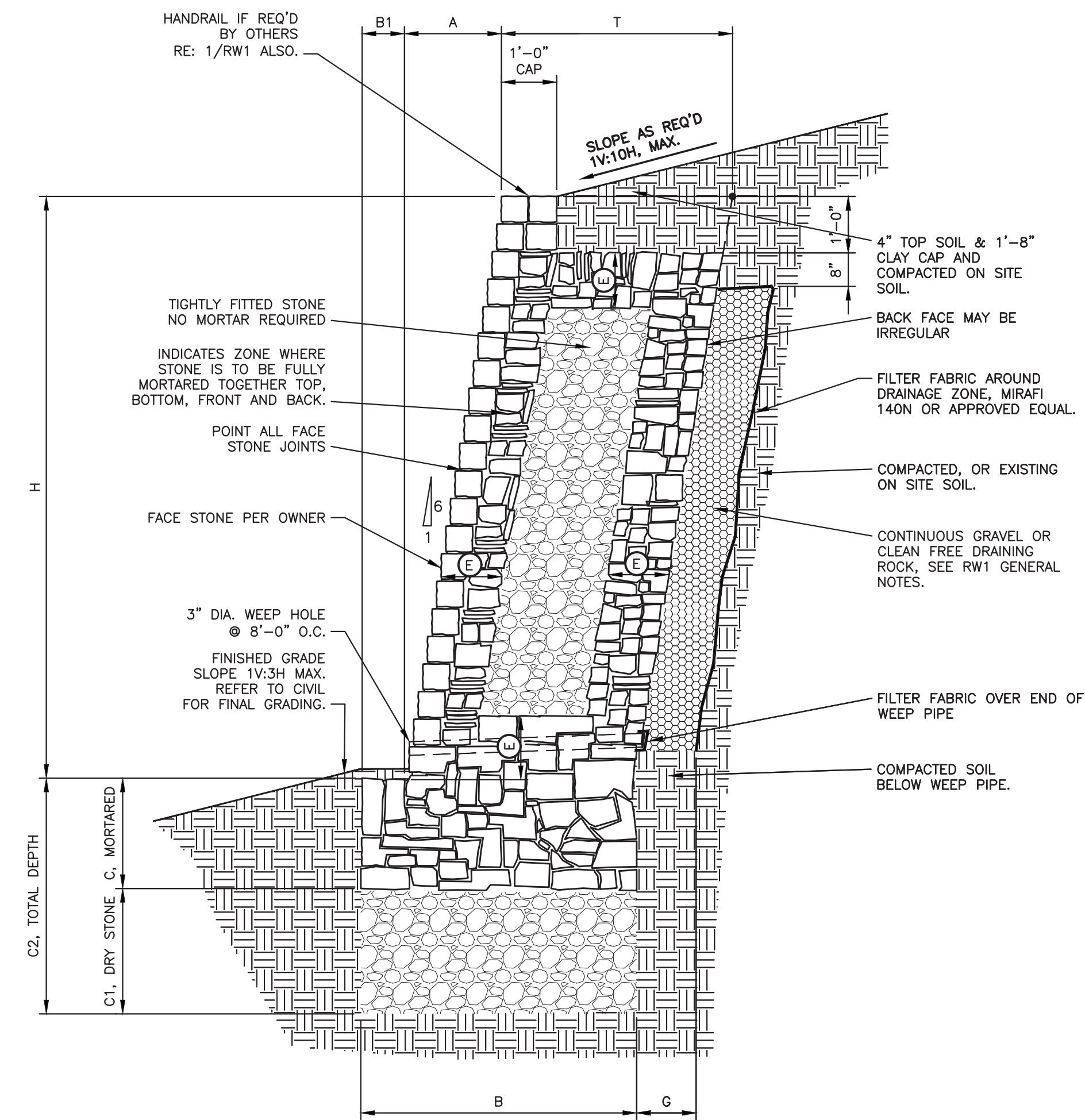
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WALCO RETAINING WALLS, INC.
 4800 S.E. LOOP 820
 FORT WORTH, TEXAS 76140

STATE OF TEXAS
 AARON H. BERKES
 107154
 PROFESSIONAL ENGINEER

5-20-20

JOB NO. 291.17
 RW2



MASONRY WALL SCHEDULE
2500 psf - BEARING CAPACITY (STIFF NATURAL UNDISTURBED SOILS OR COMPACTED AND TESTED SOILS SEE GENERAL NOTES SHEET RW1)

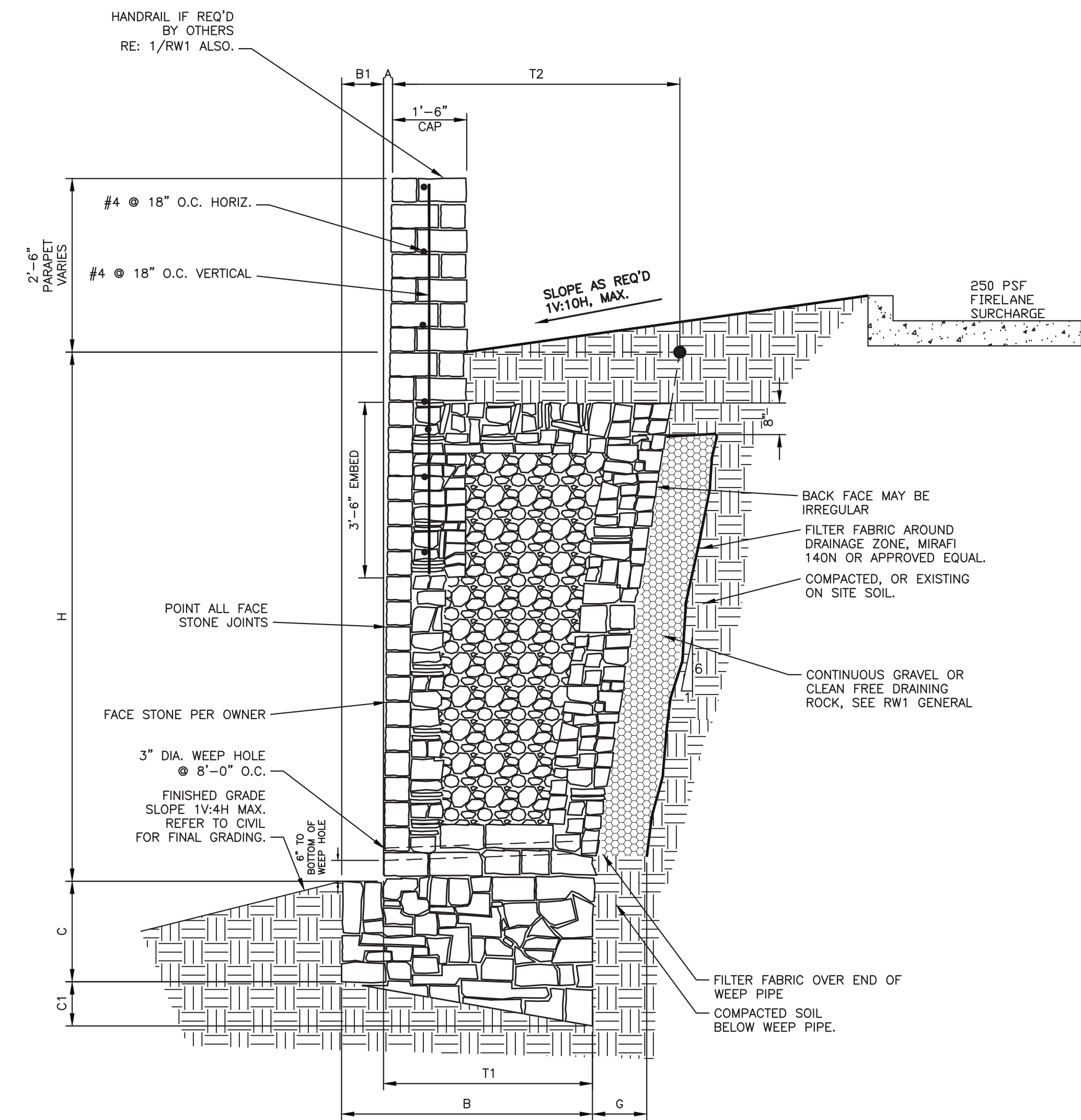
WALL HEIGHT H	BASE WIDTH B	TOE B1	MORTARED DEPTH C	DRY STONE DEPTH C1	TOTAL DEPTH C2	BATTER A	FULLY MORTARED ZONE E	THICKNESS OF WALL T	DRAINAGE ZONE THICKNESS G	BEARING CAPACITY
8'-0"	4'-11"	0'-10"	8'-0"	4'-0"	6'-0"	1'-4"	1'-0"	4'-11"	1'-0"	2500 psf
9'-0"	6'-0"	1'-1"	8'-0"	4'-0"	7'-0"	1'-6"	1'-0"	4'-11"	1'-0"	
10'-0"	6'-7"	1'-1"	8'-0"	4'-0"	8'-0"	1'-8"	1'-2"	5'-6"	1'-0"	
11'-0"	7'-3"	1'-2"	8'-0"	4'-0"	8'-6"	1'-10"	1'-2"	6'-1"	1'-3"	2750 psf

WALL DESIGN CRITERIA

BEARING q_u	SLOPE TOP β	SLOPE BOT β_1	ACTIVE PRESSURE o_a	PASSIVE PRESSURE o_p	FRICION ANGLE BASE δ	SLOPE OF BACK OF WALL α	SURCHARGE q
2500PSF	5.71 deg	18.43 deg	26 deg	26 deg	28 deg	99.46 deg	0 psf

USE THIS SCHEDULE FOR 2/RW3

2
RW3 TYPICAL WALL SECTION - 1V:10H MAX SLOPE ABOVE WALL
1V:3H MAX SLOPE BELOW WALL WITH REMEDIATED BASE BEARING IN CLAYEY SOILS 1/2" = 1'-0"



NOTE: RETAINING WALL HAS BEEN DESIGNED FOR VEHICULAR IMPACT LOADING AND FIRELANE SURCHARGE.

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 (HEEL) C1	BATTER A	FULLY MORTARED ZONE E	THICKNESS OF WALL T1	THICKNESS OF WALL T2	DRAINAGE ZONE THICKNESS G	BEARING CAPACITY
1'-0"	3'-0"	1'-0"	2'-6"	0'-7"	1/4"	FULLY MORTARED	2'-0"	2'-2"	SEE A/RW4	1500 psf
2'-0"	3'-1"	1'-0"	2'-6"	0'-7"	1/2"	FULLY MORTARED	2'-1"	2'-5"	SEE A/RW4	
3'-0"	3'-3"	1'-1"	2'-6"	0'-7"	3/4"	FULLY MORTARED	2'-2"	2'-8"	SEE A/RW4	
4'-0"	3'-9"	1'-5"	2'-6"	0'-8"	0'-1"	FULLY MORTARED	2'-4"	3'-0"	2'-0"	
5'-0"	4'-3"	1'-10"	2'-6"	0'-9"	0'-1 1/4"	FULLY MORTARED	2'-5"	3'-3"	2'-0"	
6'-0"	4'-10"	2'-2"	2'-6"	0'-10"	0'-1 1/2"	FULLY MORTARED	2'-5"	3'-8"	2'-0"	
7'-0"	5'-9"	2'-7"	2'-9"	1'-1"	0'-1 3/4"	FULLY MORTARED	3'-2"	4'-4"	2'-0"	
8'-0"	6'-6"	3'-0"	3'-3"	1'-2"	0'-2"	FULLY MORTARED	3'-6"	4'-10"	2'-0"	
9'-0"	7'-3"	3'-5"	3'-6"	1'-3"	0'-2 1/4"	FULLY MORTARED	3'-10"	5'-4"	2'-0"	
10'-0"	7'-11"	3'-10"	4'-0"	1'-5"	0'-2 1/2"	FULLY MORTARED	4'-1"	5'-9"	2'-0"	
11'-0"	8'-7"	4'-2"	4'-6"	1'-7"	0'-2 3/4"	FULLY MORTARED	4'-5"	6'-3"	2'-0"	
12'-0"	9'-3"	4'-5"	4'-9"	1'-8"	0'-3"	FULLY MORTARED	4'-10"	6'-10"	2'-0"	
13'-0"	10'-0"	4'-9"	5'-3"	1'-9"	0'-3 1/4"	FULLY MORTARED	5'-3"	7'-5"	2'-0"	
14'-0"	10'-8"	5'-0"	5'-9"	1'-10"	0'-3 1/2"	FULLY MORTARED	5'-8"	8'-0"	2'-0"	

WALL DESIGN CRITERIA

BEARING q_u	SLOPE TOP β	SLOPE BOT β_1	ACTIVE PRESSURE o_a	PASSIVE PRESSURE o_p	FRICION ANGLE BASE δ	SLOPE OF BACK OF WALL α	SURCHARGE q
1500PSF	0 deg	7.13 deg	26 deg	26 deg	17 deg	99.46 deg	250 psf

USE THIS SCHEDULE FOR 1/RW3

1
RW3 TYPICAL VERTICAL WALL SECTION - FIRELANE SURCHARGE AND VEHICULAR IMPACT BEARING IN CLAY

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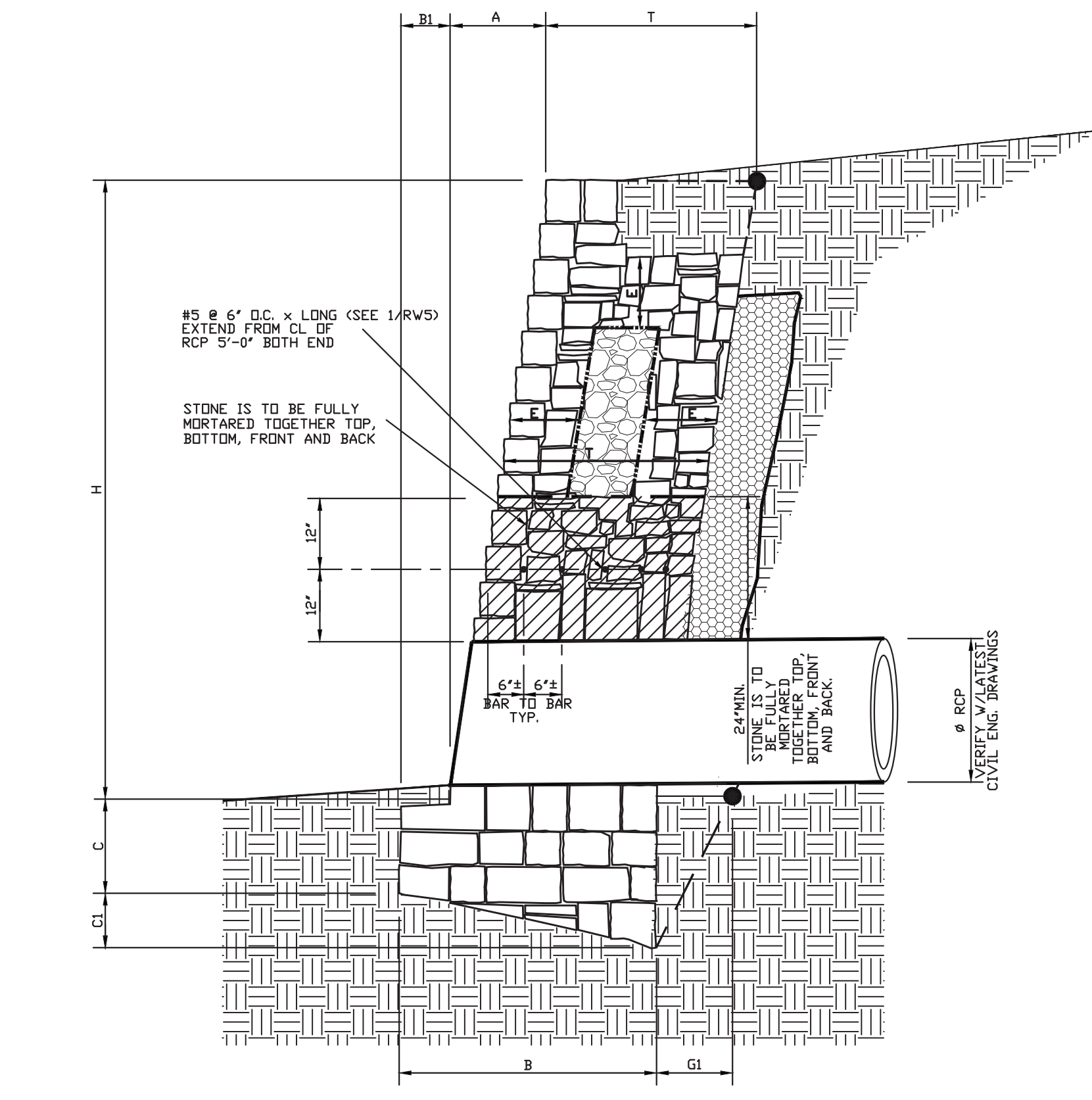
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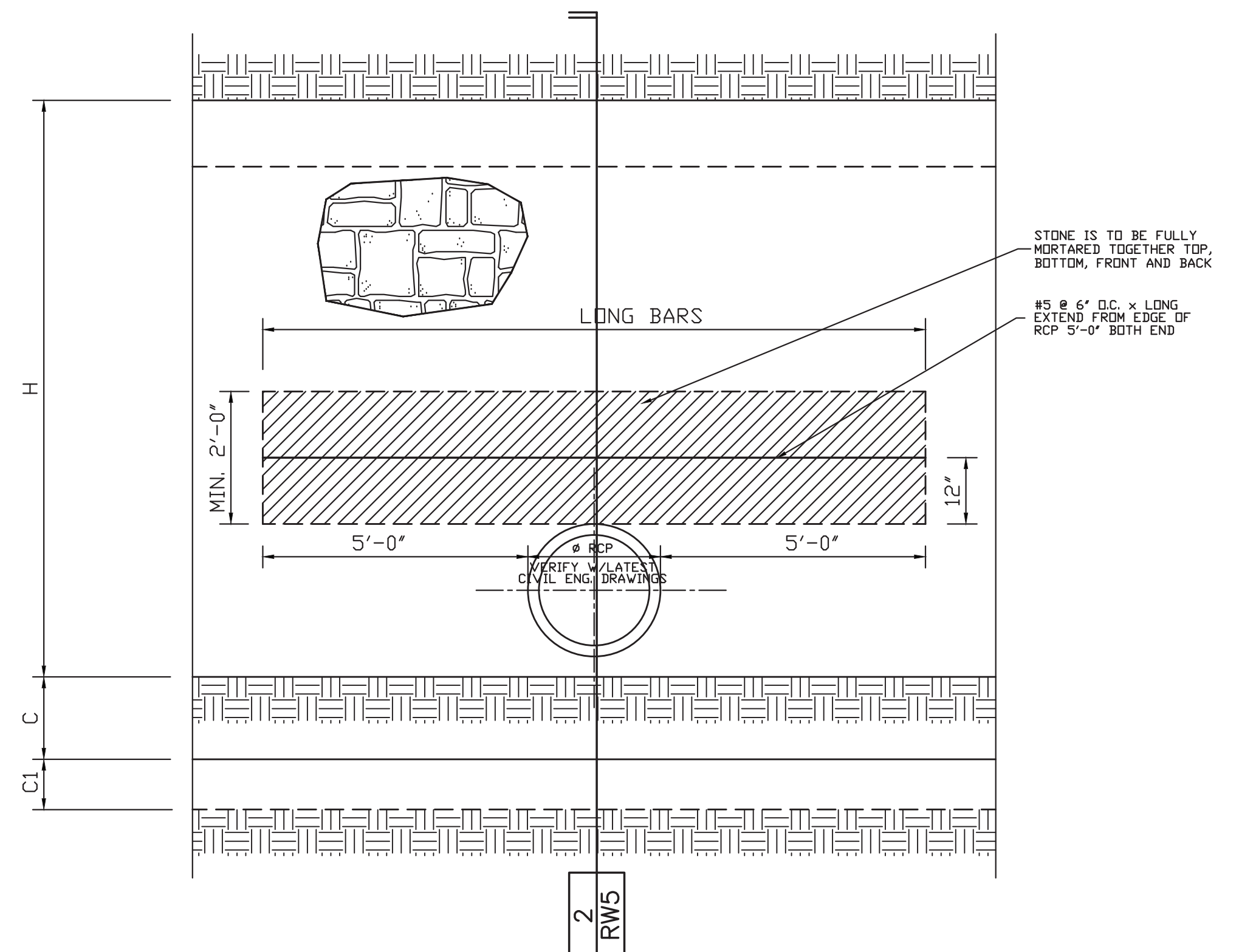


JOB NO. 291.17
RW3

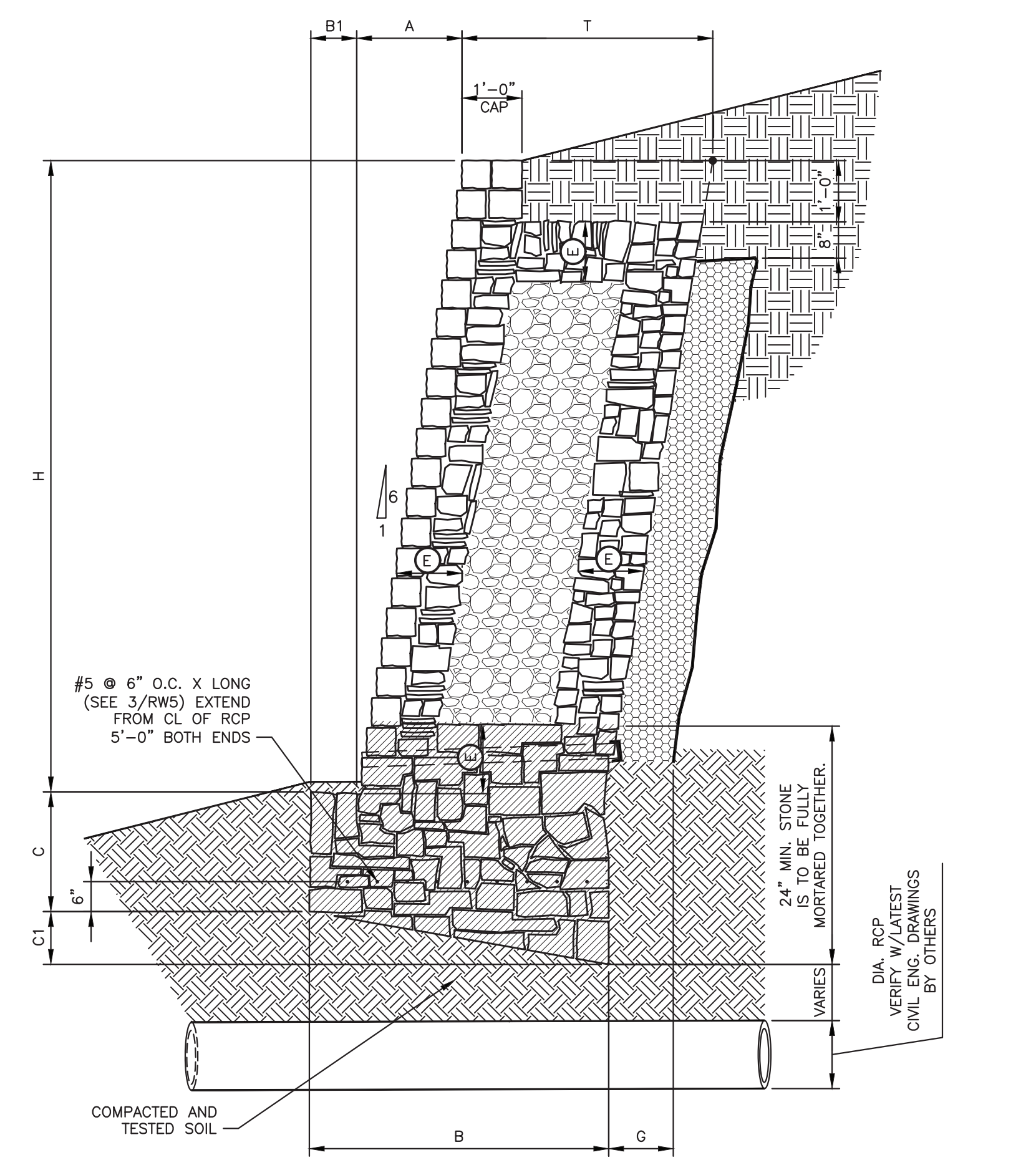
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05-19-17	MMR					
05-19-17	MMR			10-11-17		UPDATED GRADING PLANS
05-19-17	AMB			07-17-17		UPDATED GRADING PLANS AND WALL DETAILS
						BY



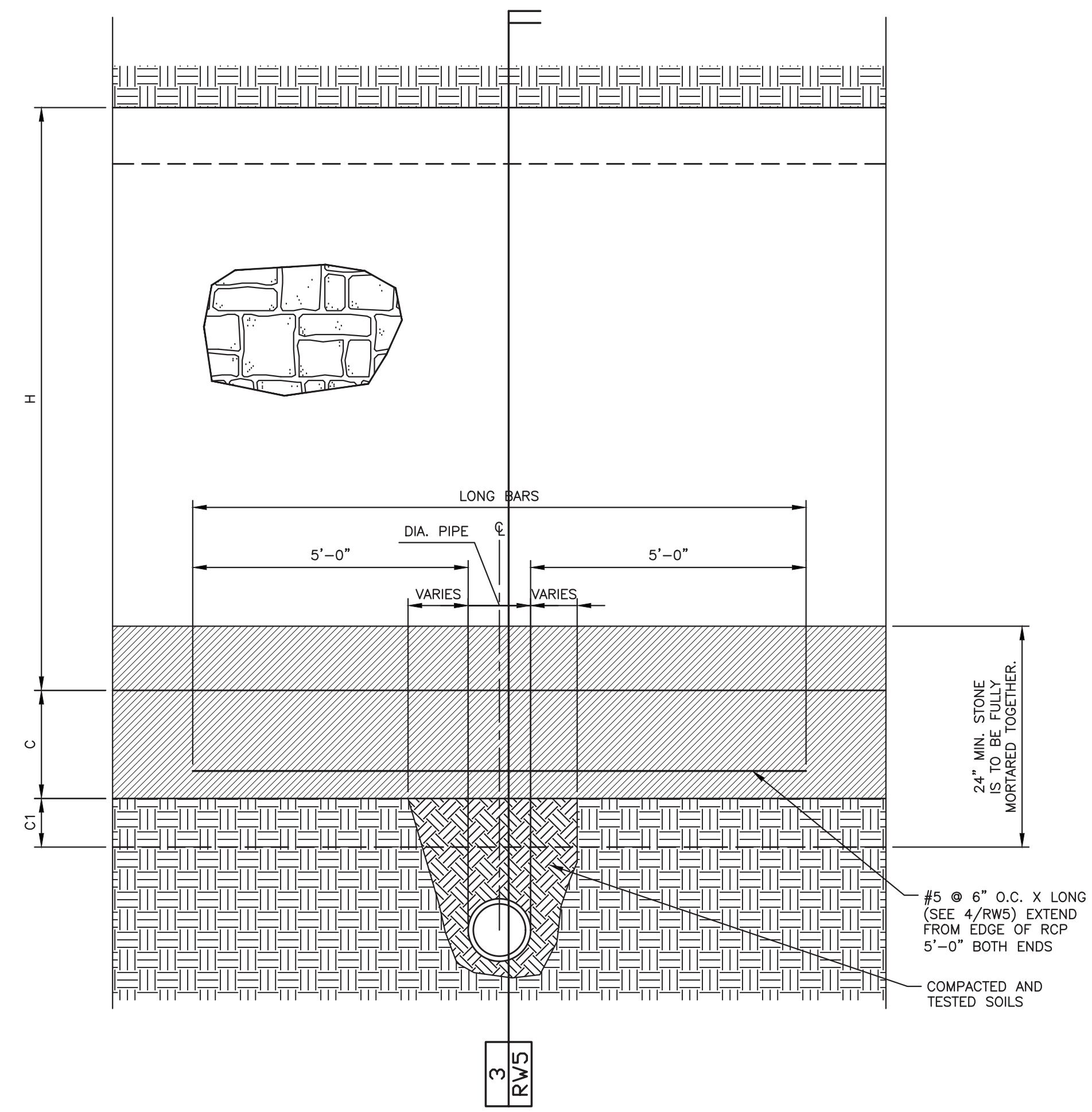
2
RW5
WALL SECTION W/RCP



1
RW5
WALL ELEVATION W/RCP



4
RW5
WALL SECTION W/RCP BELOW WALL



3
RW5
WALL ELEVATION W/RCP BELOW WALL

RECORD DRAWINGS
 THIS DRAWING HAS BEEN REVISED TO SHOW THOSE CHANGES DURING THE CONSTRUCTION PROCESS REPORTED BY THE CONTRACTOR TO FALKOFSKE ENGINEERING, INC. AND CONSIDERED TO BE SIGNIFICANT. THIS DRAWING IS NOT GUARANTEED TO BE "AS BUILT" BUT IS BASED ON THE INFORMATION MADE AVAILABLE.
 DATE: 05/20/2020 BY: Aaron Berkes, P.E.

DATE	BY	NO.	DATE	REVISION	BY
05-19-17	MMR				
05-19-17	MMR				
05-19-17	AMB	1	10-11-17	UPDATED GRADING PLANS	AMB

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JOB NO. 291.17
 RW5