



GENERAL NOTES

<u>1. Design</u>

1.1. Design Codes

International Building Code, 2015 Edition

1.2. Geotechnical Report

Soil Parameters:

Soil Type*	Friction Angle	Cohesion (psf)	Unit Weight (pcf)
Retained Backfill (On site clay)	26 deg	0 psf	120 pcf
Foundation Soils (1500 psf)	26 deg	0 psf	120 pcf
Remediated Base (2500 psf)	35 deg	0 psf	135 pcf
Foundation Soils (4000 psf)	35 deg	0 psf	135 pcf

*See materials below for a description of each Soil Type.

Factors of Safety:

Extern	al Stability	
a.	Minimum Factor of Safety Against Base Sliding (Static Condition)	1.5
b.	Minimum Factor of Safety Against Overturning	2.0
C.	Minimum Factor of Safety Against Global Stability	1.5
d.	Minimum Factor of Safety for Bearing Capacity	3.0

Design Loading:

Lateral earth pressures are calculated using Coulombs Lateral Earth Pressure Theory. Designs have been performed to accept loading per the proposed loading conditions based on the Civil Grading Plans. A live loading of 250 psf has been used for all walls supporting areas subject to firelane loading.

Retaining walls should not have solid fence (such as wood 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.

2. Materials

2.1. Soil Types

- a. Retained Backfill
- a.a. On site clayey soils
- a.b. Properly compacted on-site fill soils, verification by others.a.c. Free draining granular backfill, clean, non-plastic, relatively well-graded.
- b. Foundation Soils (Allowable Bearing = 1500 psf min)
 b.a. Bearing on Stiff Natural Undisturbed Clayey or Sandy Soils or Compacted and Tested Fill Soils
- b.b. Friction Angle between Base of Wall and Soil 17 degb.c. Bearing in fill soils. Fill soils supporting the retaining walls shall be placed in accordance with the recommendations for the fill placement per the geotechincal report.
- c. Foundation Soils (Allowable Bearing = 2500 psf min)
- c.a. Bearing on Remediated Bases c.b. Friction Angle between Base of Wall and Soil - 28 deg
- c.c. Material per dimension stone, section 2.2
- d. Foundation Soils (Allowable Bearing = 4000 psf min)d.a. Bearing on Bedrock
- d.b. Friction Angle between Base of Wall and Soil 23 deg
- d.c. Bedrock Passive Pressure at toe = 400 psf
- e. Drainage Material
- e.a. Free draining granular backfill, clean, non-plastic, relatively well-graded.

2.2. Dimension Stone

- a. Average Density of masonry wall varies from 135pcf to 145pcf.b. Stone size varies from 4" to 18".
- c. Face stone shall be coordinated between contractor and owner/developer.
- Recycled concrete 4" to 18" may be used in place of dimension stone, contractors option.
- 2.3. Rebar/Welded Wire Fabric (If Required)
 - a. All steel reinforcement shall be new billet steel conforming to ASTM A-615, Grade 60 with fy=60ksi.
 - b. All reinforcement shall not have deleterious material on it.c. All welded wire fabric shall have minimum fy=65ksi and be hot dip galvanized.
- 2.4. Drainage Materials

N.T.S.

- a. Weep pipes shall be PVC or corrugated HDPE pipe.b. Drainage zone shall be separated from retained backfill by mirafi 140N filter fabric or
- approved equal.

2.5 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 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	Specific Gravity	Volume ft^3
Type 1 Portland cement:	451 lbs	3.15	2.29
Type F Fly Ash	113 Ibs	2.93	0.62
Fine Aggregate (sand):	2746 Ibs	2.59	16.99
Potable Water	367 Ibs	44 Gallons	5.88
Sika Air (or equivalent)	(AS REQ'D) oz	4.5%	1.22
· · · /			27.0 Total

Note: the portland cement mortar supplier material weights may vary slightly based on the specific gravity of the materials used.

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 = 2500 psi. Falkofske Engineering, Inc. does not require any concrete testing provided the above proportions are verified by way of the "batch tickets".

3. Construction

3.1 Preparation Work

- a. Prior to grading or excavation of the site, confirm the location of the retaining walls and all underground features, including utility location within the area of construction. Ensure
- surrounding structures are protected from effects of wall excavation, and construction.
- b. Coordinate installation of underground utilities and other improvements with wall installation.



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	MASONRY WALL SCHEDULE 4000 pet – BEARING CAPACITY (BEARING ON BEDROCK 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	DRAINAGE ZONE THICKNESS G	BEARING CAPACITY
1'-0"	2'-2"	0'-6"	0'-6"	0'-5"	0'-2"	FULLY MORTARED	1'-8"	1'-0"	
2'-0"	2'-2"	0'-6"	0'-6"	0'-5"	0'-4"	FULLY MORTARED	1'-8"	1'-0"	
3'-0"	2'-2"	0'-6"	0'-9"	0'-5"	0'-6"	FULLY MORTARED	1'-8"	1'-0"	4000 psf
4'-0"	2'-2"	0'-6"	0'-9"	0'-5"	0'-8"	FULLY MORTARED	1'-8"	1'-0"	
5'-0"	2'-8"	0'-6"	1'-0"	0'-6"	0'-10"	0'-8"	2'-2"	1'-0"	
	-	WAL	L DESIGN C	RITERIA	-				
BEARING Qa	SLOPE TOP β	SLOPE BOT β1	ACTIVE PRESSURE Φa	PASSIVE PRESSURE Φρ	FRICTION ANGLE BASE õ	SLOPE OF BACK OF WALL α	SURCHARGE q	WIND LOAD WI	
4000PSF	5.71 deg	7.13 deg	26 deg	400 PSF	23 deg	99.46 deg	0 psf	15 psf	
USE THIS SCHEDULE FOR 2/RW2									

2 RW2

RE: ARCH 6'-0" MAX.	WOOD FENCE AND 2" GALV. STEEL POSTS AT 8'-0" O.C. BY OTHERS. GROUT POST INTO SLEEVE. 3" DIA. X 24" LONG PVC SLEEVE FOR FENCE POSTS, BY CONTRACTOR FULL MORTAR AROUND		B1	
_	SLEEVE.			
	2-#3 X 3'-0" LONG TOP AND BOTTOM OF SLEEVE	_		
	TIGHTLY FITTED STONE NO MORTAR REQUIRED			
	INDICATES ZONE WHERE STONE IS TO BE FULLY MORTARED TOGETHER TOP, BOTTOM, FRONT AND BACK.			
	POINT ALL FACE STONE JOINTS			
т	FACE STONE PER OWNER	_		
	3" DIA. WEEP HOLE ③ 8'-O" O.C. 6" MIN. ABOVE GRADE FINISHED GRADE SLOPE 1V:8H MAX. REFER TO CIVIL FOR FINAL GRADING.			
C1 + C				
		ł	-	

	MASONRY WALL SCHEDULE 1500 paf – 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	DRAINAGE ZONE THICKNESS G	BEARING CAPACITY	
1'-0"	2'-2"	0'-6"	0'-9"	0'-5"	0'-2"	FULLY MORTARED	1'-8"	1'-0"		
2'-0"	2'-2"	0'-6"	0'-9"	0'-5"	0'-4"	FULLY MORTARED	1'-8"	1'-0"		
3'-0"	2'-2"	0'-6"	0'-9"	0'-5"	0'-6"	FULLY MORTARED	1'-8"	1'-0"	1500 psf	
4'-0"	2'-4"	0'-6"	1'-0"	0'-5"	0'-8"	FULLY MORTARED	1'-10"	1'-0"		
5'-0"	2'-10"	0'-6"	1'-3"	0'-6"	0'-10"	0'-8"	2'-4"	1'-0"		
WALL DESIGN CRITERIA										
BEARING Qa	SLOPE TOP β	SLOPE BOT β1	ACTIVE PRESSURE Фа	PASSIVE PRESSURE Φp	FRICTION ANGLE BASE o	SLOPE OF BACK OF WALL a	SURCHARGE q	WIND LOAD WI		
1500PSF	5.71 deg	7.13 deg	26 deg	26 deg	17 deg	99.46 deg	0 psf	15 psf		
			USE	THIS SCHED	ULE FOR 1/	RW2				



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TYPIC	AL WALL SECTION
1V:10H MA	X SLOPE ABOVE WALL
1V:8H MAX	SLOPE BELOW WALL
BEARIN	G IN CLAYEY SOILS





	MASONRY WALL SCHEDULE 4000 paj – Bearing Capacity (Bearing on Bedrock 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	DRAINAGE ZONE THICKNESS G	BEARING CAPACITY
1'-0"	2'-2"	0'-6"	0'-6"	0'-5"	0'-2"	FULLY MORTARED	1'–8"	1'-0"	
2'-0"	2'-2"	0'-6"	0'-6"	0'-5"	0'-4"	FULLY MORTARED	1'-8"	1'-0"	
3'-0"	2'-2"	0'-6"	0'-9"	0'-5"	0'-6"	FULLY MORTARED	1'-8"	1'-0"	
4'-0"	2'-2"	0'-6"	0'-9"	0'-5"	0'-8"	FULLY MORTARED	1'-8"	1'-0"	4000 psf
5'-0"	3'-0"	0'-6"	1'-0"	0'-7"	0'-10"	0'-9"	2'-6"	1'-0"	
6'-0"	3'-7"	0'-7"	1'-0"	0'-8"	1'-0"	1'-0"	3'-0"	1'-0"	
7'-0"	4'-2"	0'-8"	1'-0"	0'-9"	1'-2"	1'-0"	3'-6"	1'-0"	
		WAL	L DESIGN C	RITERIA					
BEARING Qa	SLOPE TOP β	SLOPE BOT β1	ACTIVE PRESSURE Φa	PASSIVE PRESSURE Φρ	FRICTION ANGLE BASE õ	SLOPE OF BACK OF WALL α	SURCHARGE q	WIND LOAD WI	
4000PSF	14 deg	7.13 deg	26 deg	400 PSF	23 deg	99.46 deg	0 psf	15 psf	
	USE THIS SCHEDULE FOR 2/RW3								

TYPICAL WALL SECTION BEARING IN BEDROCK MAX SLOPE ABOVE WALL 1V:4H MAX SLOPE BELOW WALL 1V:8H

2 RW3

E: ARCH 6'-0" MAX.	WOOD FENCE AND 2" GALV. STEEL POSTS AT 8'-0" O.C. BY OTHERS. GROUT POST INTO SLEEVE.		B1	
R	3" DIA. X 24" LONG PVC SLEEVE FOR FENCE POSTS, BY CONTRACTOR FULL MORTAR AROUND SLEEVE.	_		/
	2-#3 X 3'-0" LONG TOP AND BOTTOM OF SLEEVE	~		
	TIGHTLY FITTED STONE NO MORTAR REQUIRED			
	INDICATES ZONE WHERE STONE IS TO BE FULLY MORTARED TOGETHER TOP, BOTTOM, FRONT AND BACK.			
	POINT ALL FACE STONE JOINTS			
н	FACE STONE PER OWNER	_		_
	3" DIA. WEEP HOLE @ 8'-O" O.C. 6" MIN. ABOVE GRADE FINISHED GRADE	$\overline{}$		
	SLOPE 1V:8H MAX. REFER TO CIVIL FOR FINAL GRADING.			
C1 C				
	1		<u> </u>	<u> -</u>

	MASONRY WALL SCHEDULE 1500 pag – 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	DRAINAGE ZONE THICKNESS G	BEARING CAPACITY
1'-0"	2'-2"	0'-6"	1'-0"	0'-5"	0'-2"	FULLY MORTARED	1'-8"	1'-0"	
2'-0"	2'-2"	0'-6"	1'-0"	0'-5"	0'-4"	FULLY MORTARED	1'–8"	1'-0"	
3'-0"	2'-2"	0'-6"	1'-0"	0'-5"	0'-6"	FULLY MORTARED	1'–8"	1'-0"	
4'-0"	2'-8"	0'-6"	1'-0"	0'-6"	0'-8"	FULLY MORTARED	2'-2"	1'-0"	1500 psf
5'-0"	3'-4"	0'-6"	1'-3"	0'-8"	0'-10"	0'-9"	2'-10"	1'-0"	
6'-0"	4'-0"	0'-7"	1'-6"	0'-9"	1'-0"	1'-0"	3'-5"	1'-0"	
7'-0"	4'-9"	0'-8"	1'—9"	0'-11"	1'-2"	1'-0"	4'-1"	1'-0"	
			WALL DESIG	N CRITERIA					
BEARING Qa	SLOPE TOP β	SLOPE BOT β1	ACTIVE PRESSURE Φ_a	PASSIVE PRESSURE Φp	FRICTION ANGLE BASE õ	SLOPE OF BACK OF WALL a	SURCHARGE q	WIND LOAD WI	
1500PSF	14 deg	7.13 deg	26 deg	26 deg	17 deg	99.46 deg	0 psf	15 psf	
	USE THIS SCHEDULE FOR 1/RW3								



	YPICA	_ WALL	SECTIO	N
1V:4H	MAX	SLOPE	ABOVE	WALL
1V:8H	MAX	SLOPE	BELOW	WALL
BEA	RING	IN CLA	YEY SO	ILS





	4000	psf – BEARIN	MASON G CAPACITY (BI	RY WALL SC BARING ON BEL	CHEDULE DROCK SEE GE	NERAL NOTES	SH EET R W 1)		
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	DRAINAGE ZONE THICKNESS G	BEARII CAPAC
1'-0"	1'-0"	0'-0"	0'-6"	0'-3"	0'-2"	FULLY MORTARED	1'-0"	1'-0"	
2'-0"	1'-0"	0'-0"	0'-6"	0'-3"	0'-4"	FULLY MORTARED	1'-0"	1'-0"	4000
3'-0"	1'-6"	0'-2"	0'-9"	0'-4"	0'-6"	FULLY MORTARED	1'-4"	1'-0"	
		WALI	L DESIGN C	R <i>ITERIA</i>					
BEARING Qa	SLOPE TOP β	SLOPE BOT β1	ACTIVE PRESSURE Φa	PASSIVE PRESSURE Φρ	FRICTION ANGLE BASE õ	SLOPE OF BACK OF WALL α	SURCHARGE q		
4000PSF	14 deg	14 deg	26 deg	400 PSF	23 deg	99.46 deg	0 psf]	
			USE	E THIS SCHED	DULE FOR 2/	/RW4	-	-	

TYPICAL WAL	L SECTION ·	– 1V:4H	MAX	SLOPE	ABOVE	WALL
	1V:4H MAX	SLOPE I	BELOV	V WALL		
	BEARI	NG IN BE	EDROC	Ж		





	1500 psf	– BEARING CA	MASONI PACITY (STIFF	RY WALL SC. NATURAL UNDI	HEDULE STURBED SOL	ls see genei	ral notes se	ieet RW4)	
WALL HEIGHT H	BASE WIDTH B	toe B1	BASE DEPTH (TOE) C	BASE DEPTH (HEEL) C1	BATTER	FULLY MORTARED ZONE E	THICKNESS OF WALL T	DRAINAGE ZONE THICKNESS G	BEARING CAPACIT
1'-0"	1'-9"	0'-3"	2'-0"	0'-4"	0'-2"	FULLY MORTARED	1'-6"	1'-0"	
2'-0"	2'-4"	0'-4"	2'-0"	0'-5"	0'-4"	FULLY MORTARED	2'-0"	1'-0"	1500 ps
3'-0"	2'-11"	0'-5"	2'-0"	0'-7"	0'-6"	FULLY MORTARED	2'-6"	1'-0"	
		WAL	L DESIGN C.	RITERIA					
BEARING Qa	SLOPE TOP β	SLOPE BOT β1	ACTIVE PRESSURE ©a	PASSIVE PRESSURE Φp	FRICTION ANGLE BASE õ	SLOPE OF BACK OF WALL a	SURCHARGE q		
2500PSF	14 deg	14 deg	26 deg	26 deg	17 deg	99.46 deg	0 psf]	
			USI	E THIS SCHED	DULE FOR 1/	/RW4		-	

1

RW4

					DATE
					NO.
	BY	22 AMB	52 EG	22 AMB	
	DATE	03-25-2	03-25-2	03-25-2	
		DES.	DRN.	CHK.	
	$= \Pi_{1} \cup f_{1} \cup \Pi_{2} \cup \Pi_$	Farkotske Engineering, Inc. Structural Engineering Consultants	TX Reg. Engineering Firm F-4038722 North Fielder Road	Arlington, Texas 76012 (817) 261-8300	
				FALKOFSKE	ENGINEEKING
	The use of these plans and	specifications shall be restricted to the original site for which they were prepared. Any reproduction or distribution is	expressly imited to such use. Any other reproduction, reuse, or disclosure by any method, in whole, or in part, is prolibited.	inese arawings and speciaations contain propietary information and title remains in FALKOFSKE ENGINEERING.	
V	MASONRY RETAINING WALLS	STATE HIGHWAY 66 BOCKWALL TEXAS		361 W BYRON NELSON BLVD. STE 104	ROANOKE, TEXAS 76262
	JC	BN	0. 3	9.22	
		R	\mathbb{W}	4	

TYPICAL WALL SECTION - 1V:4H MAX SLOPE ABOVE WALL 1V:4H MAX SLOPE BELOW WALL BEARING IN CLAYEY OR SANDY SOILS

 $1/2^{*} = 1'-0^{*}$



	MASONRY WALL SCHEDULE 4000 psf – BEARING CAPACITY (BEARING ON BEDROCK 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	DRAINAGE ZONE THICKNESS G	BEARING CAPACITY
4'-0"	2'-11"	0'-6"	0'-9"	0'-7"	0'-8"	FULLY MORTARED	2'-5"	1'-0"	
5'-0"	4'-2"	0'-6"	1'-0"	0'-9"	0'-10"	1'-0"	3'-8"	1'-0"	4000 pof
6'-0"	4'-7"	0'-6"	1'-0"	0'-10"	1'-0"	1'-3"	4'-1"	1'-0"	
7'-0"	5'-1"	0'-7"	1'-0"	0'-11"	1'-2"	1'-3"	4'-6"	1'-0"	4000 psi
8'-0"	5'-6"	0'-8"	1'-3"	1'-0"	1'-4"	1'-6"	4' -10"	1'-0"	
		WALI	L DESIGN C	RITERIA					
BEARING Qa	SLOPE TOP β	SLOPE BOT β1	ACTIVE PRESSURE Φa	PASSIVE PRESSURE Φρ	FRICTION ANGLE BASE õ	SLOPE OF BACK OF WALL α	SURCHARGE q	WIND LOAD WI	
4000PSF	0 deg	14 deg	26 deg	400 PSF	23 deg	99.46 deg	250 psf	15 psf	
Ç	-		USE	THIS SCHEE	DULE FOR 2/	RW5		-	-



	2500	p
WALL HEIGHT H	BASE WIDTH B	
4'-0"	3'-11"	
5'-0"	4'-8"	
6'-0"	5'–3"	
7 ' -0"	5'-11"	
8'-0"	6'-8"	
BEARING Qa	SLOPE TOP β	\$
2500PSF	0 deg	



	MASONRY WALL SCHEDULE 4000 psf – BEARING CAPACITY (BEARING ON BEDROCK SEE GENERAL NOTES SHEET RW1)								
WALL HEIGHT H	BASE WIDTH B	toe B1	BASE DEPTH (TOE) C	BASE DEPTH (HEEL) C1	BATTER	FULLY MORTARED ZONE E	THICKNESS OF WALL T	DRAINAGE ZONE THICKNESS G	BEARING CAPACITY
1'-0"	2'-2"	0'-6"	0'-6"	0'-5"	0'-2"	FULLY MORTARED	1'–8"	1'-0"	
2'-0"	2'-2"	0'-6"	0'-6"	0'-5"	0'-4"	FULLY	1'–8"	1'-0"	
3'-0"	2'-2"	0'-6"	0'-9"	0'-5"	0'-6"	FULLY	1'-8"	1'-0"	
4'-0"	2'-2"	0'-6"	0'-9"	0'-5"	0'-8"	FULLY MORTARED	1'-8"	1'-0"	4000 psf
5'-0"	2'-8"	0'-6"	1'-0"	0'-6"	0'-10"	0'-8"	2'-2"	1'-0"	
6'-0"	3'-1"	0'-6"	1'-0"	0'-7"	1'-0"	0'-10"	2'-7"	1'-0"	
7'-0"	3'-7"	0'-7"	1'-0"	0'-8"	1'-2"	0'-10"	3'-0"	1'-0"	
		WAL	L DESIGN C.	RITERIA					
BEARING Qa	SLOPE TOP β	SLOPE BOT β1	ACTIVE PRESSURE Φa	PASSIVE PRESSURE Φρ	FRICTION ANGLE BASE õ	SLOPE OF BACK OF WALL α	SURCHARGE q	WIND LOAD WI	
4000PSF	5.71 deg	14 deg	26 deg	400 PSF	23 deg	99.46 deg	0 psf	15 psf	
			USI	E THIS SCHEE	DULE FOR 2/	/RW6			

TYPICAL WALL SECTION BEARING IN BEDROCK MAX SLOPE BELOW WALL 1V:10H MAX SLOPE BELOW WALL 1V:4H

2 RW6

			-
RCH 6'-0" MAX.	WOOD FENCE AND 2" GALV. STEEL POSTS AT — 8'—0" O.C. BY OTHERS. GROUT POST INTO SLEEVE.		
RE: A	3" DIA. X 24" LONG PVC SLEEVE FOR FENCE POSTS, BY CONTRACTOR — FULL MORTAR AROUND SLEEVE.	B1	
	2-#3 X 3'-0" LONG TOP AND BOTTOM OF SLEEVE		
	TIGHTLY FITTED STONE NO MORTAR REQUIRED —		
	INDICATES ZONE WHERE STONE IS TO BE FULLY MORTARED TOGETHER TOP, BOTTOM, FRONT AND BACK.—		
	POINT ALL FACE STONE JOINTS —	+	_
Н	FACE STONE PER OWNER —		
	3" DIA. WEEP HOLE ③ 8'-0" O.C. 6" MIN. ABOVE GRADE FINISHED GRADE SLOPE 1V:4H MAX		
,	REFER TO CIVIL FOR FINAL GRADING.		
c1C			
1	1		<u> </u> -

	MASONRY WALL SCHEDULE								
	2500 pag – BEARING CAPACITY (HARD NATURAL UNDISTURBED SOILS SEE GENERAL NOTES SHEET RW1)								
WALL HEIGHT	BASE WIDTH	TOE	BASE DEPTH (TOE)	BASE DEPTH (HEEL)	BATTER	FULLY MORTARED ZONE	THICKNESS	DRAINAGE ZONE THICKNESS	BEARING
н	В	B1	C	C1	A	E	T	G	CAPACITY
1'-0"	2'-3"	1'-0"	2'-0"	0'-5"	0'-2"	FULLY MORTARED	1'-3"	1'-0"	
2'-0"	2'-9"	1'-4"	2'-0"	0'-6"	0'-4"	FULLY MORTARED	1'-5"	1'-0"	
3'-0"	3'-1"	1'-8"	2'-0"	0'-7"	0'-6"	FULLY MORTARED	1'-5"	1'-0"	
4'-0"	3'-7"	2'-0"	2'-0"	0'-8"	0'-8"	FULLY MORTARED	1'-7"	1'-0"	2500 psf
5'-0"	4'-5"	2'-3"	2'-6"	0'-10"	0'-10"	0'-8"	2'-2"	1'-0"	
6'-0"	5'-3"	2'-8"	3'-0"	1'-0"	1'-0"	0'-10"	2'-7"	1'-0"	
7'-0"	6'-0"	3'-0"	3'-6"	1'-1"	1'-2"	0'-10"	3'-0"	1'-0"	
WALL DESIGN CRITERIA									
BEARING Qa	SLOPE TOP β	SLOPE BOT β1	ACTIVE PRESSURE Φ_a	PASSIVE PRESSURE Φp	FRICTION ANGLE BASE õ	SLOPE OF BACK OF WALL α	SURCHARGE q	WIND LOAD	
2500PSF	5.71 deg	14 deg	26 deg	26 deg	17 deg	99.46 deg	0 psf	15 psf	
	•	•	USE	THIS SCHEDU	LE FOR 1/R	W6		•	



TYPICAL	_ WALL	SECTIC	N
OH MAX	SLOPE	ABOVE	E WALL
H MAX	SLOPE	BELOW	WALL
BEARING	IN CLA	YEY SC	DILS







	2500	paf – BEAI
WALL HEIGHT	BASE WIDTH	TOE
н	В	B1
1'-0"	3'-8"	1'-0"
2'-0"	4'-10"	1'-0"
3'-0"	6'-0"	1'-0"
4'-0"	7'-3"	1'-0"
5'-0"	8'-5"	1'-0"
6'-0"	8'-5"	1'-0"
7'-0"	8'-5"	1'-2"
8'-0"	8'-5"	1'-4"
	-	WA
BEARING Qa	SLOPE TOP β	SLOPE BOT β1
2500psf	14 deg	14 deg
	•	•

	INDICATES ZONE WHERE STONE IS TO BE FULLY MORTARED TOGETHER TOP, BOTTOM, FRONT AND BACK.
Н	POINT ALL FACE STONE JOINTS
	FACE STONE PER OWNER —
	3" DIA. WEEP HOLE ③ 8'-0" O.C. 6" MIN. ABOVE GRADE FINISHED GRADE SLOPE 1V:4H MAX. REFER TO CIVIL FOR FINAL GRADING.
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HANDRAIL IF REQ'D BY OTHERS RE: 1/RW1 ALSO. ____





				ВҮ
				REVISION
STONE IS TO BE FULLY MORTARED TOGETHER TOP, BOTTOM, FRONT AND BACK #5 @ 6' D.C. × LONG EXTEND FROM EDGE OF RCP 5'-0' BOTH END	DES. 03-25-22 AMB	DRN. 03-25-22 EG	CHK. 03-25-22 AMB	NO. DATE
	Falkofske Engineering, Inc. Structural Engineering Consultants	Texas Registration F-4038	FALKOFSKE (817) 261-8300	
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24" MIN. STONE IS TO BE FULLY MORTARED TOGETHER.	1ASONRY RETAINING WALLS - PIPE THROUGH WALL DETAILS ADERA ROCKWALL PHASE 2 TATE HIGHWAY 66	OCKWALL, TEXAS	NTEGRITY GROUP, LLC 61 W BYRON NELSON BLVD., STE 104	ROANOKE, TEXAS 76262
 #5 @ 6" O.C. X LONG (SEE 4/RW8) EXTEND FROM EDGE OF RCP 5'-0" BOTH ENDS COMPACTED AND TESTED SOILS 	W IS		\leq M erkes 4 03-25	
	JOB NO. 39.22			