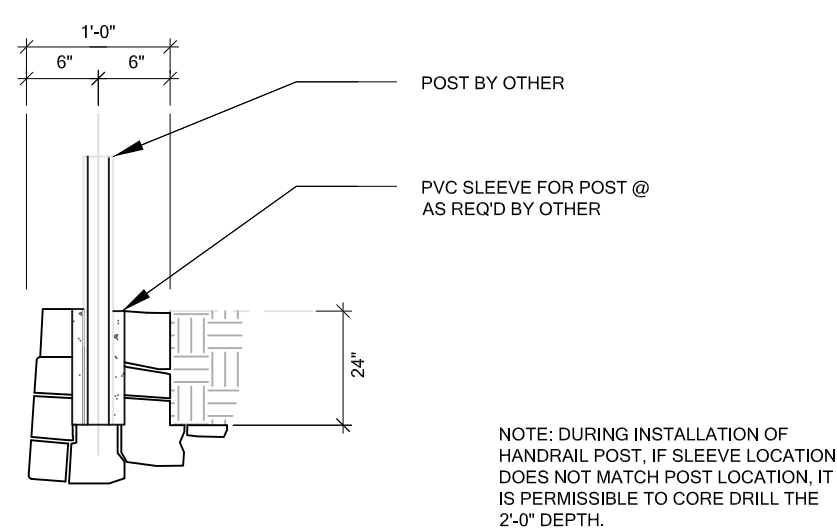
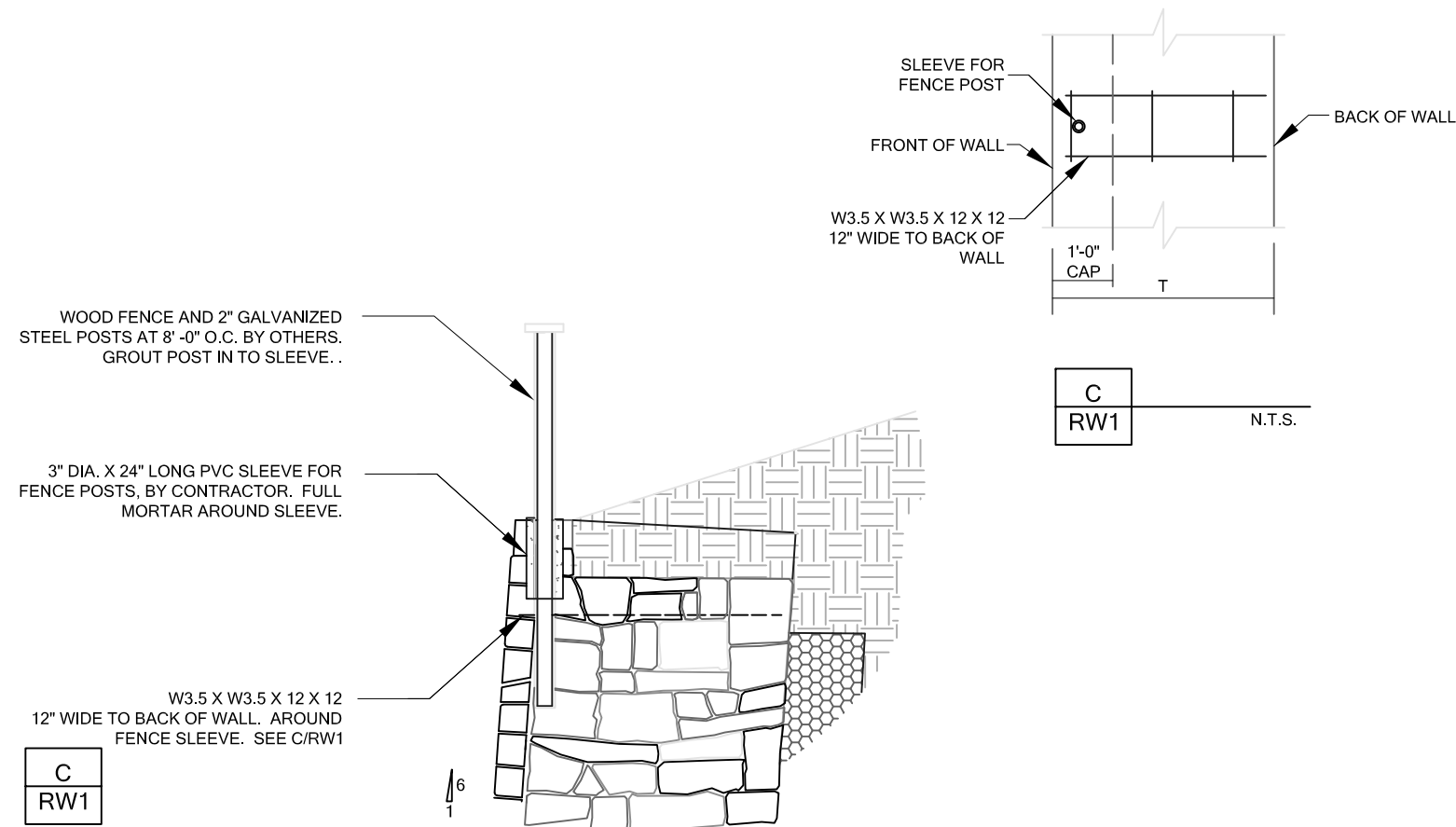


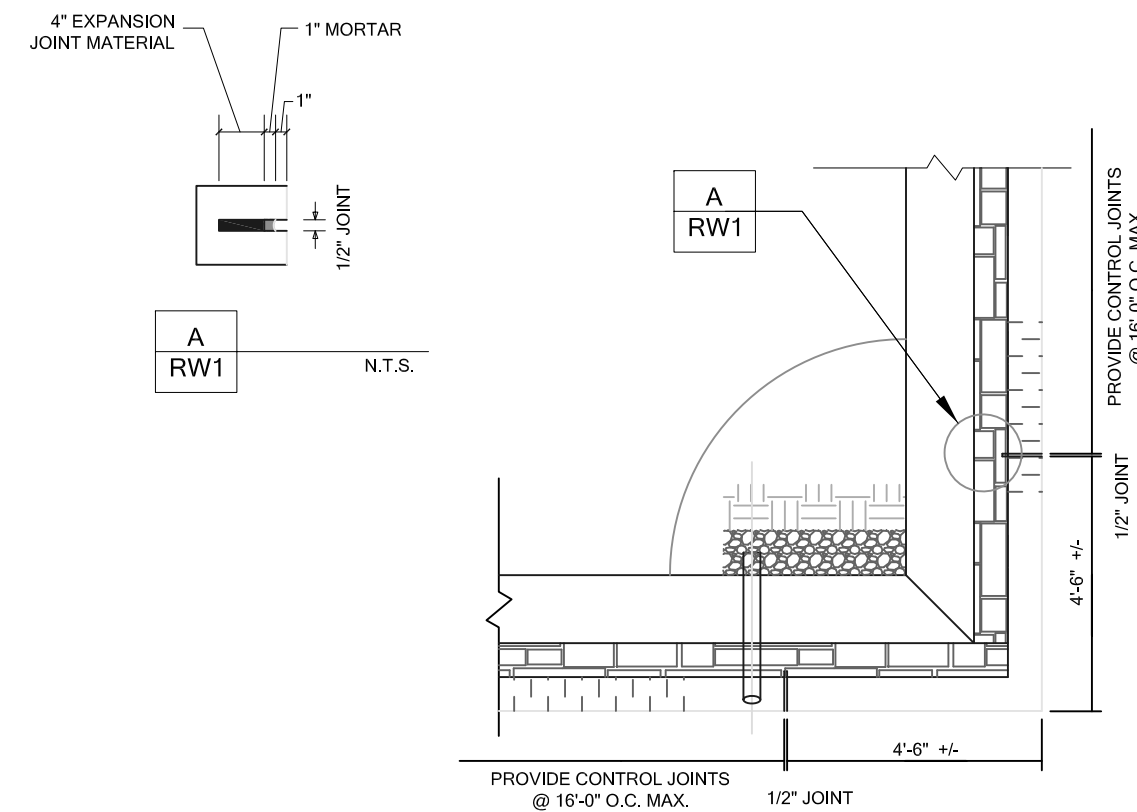
**RW1/1 MASONRY WALL W/ 6V:1H BATTER**  
SCALE: N.T.S.



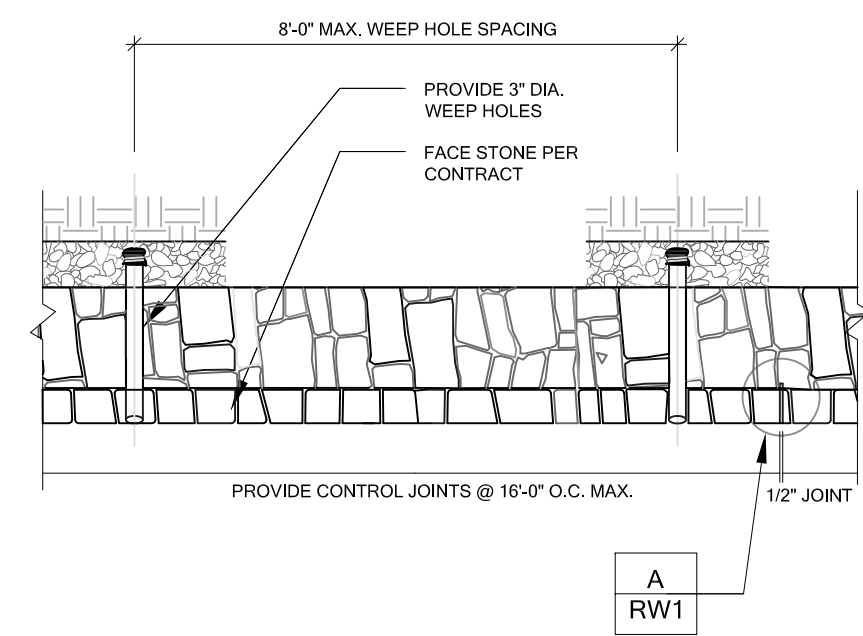
**RW1/2 WALL SECTION W/ FENCE POST**  
SCALE: N.T.S.



**DETAIL OF WALL WITH WELDED WIRE FABRIC FOR FENCE SLEEVE**  
RW1/3  
SCALE: N.T.S.



**RW1/4 TYPICAL PLAN VIEW AT CORNER**  
SCALE: N.T.S.



**RW1/5 TYPICAL PLAN VIEW AT BASE**  
SCALE: N.T.S.

RW1/1 MASONRY WALL SCHEDULE -1500 psf									
1500 psf - BEARING CAPACITY (COMPACTED AND TESTED OR NATURAL SOILS)									
WALL HEIGHT	BASE WIDTH	TOE	BASE DEPTH (TOE)	BASE DEPTH (HEEL)	BATTER	FULLY MORTARED ZONE	THICKNESS OF WALL	DRAINAGE ZONE THICKNESS	BEARING CAPACITY
H	B	B1	C	C1	A	E	T	G	
1' - 0"	1' - 0"	0' - 0"	0' - 9"	0' - 2"	0' - 2"	FULLY	1' - 0"	SEE B/RW1	1500 psf
2' - 0"	1' - 3"	0' - 0"	0' - 10"	0' - 3"	0' - 4"	FULLY	1' - 3"	SEE B/RW1	
3' - 0"	1' - 6"	0' - 0"	0' - 11"	0' - 4"	0' - 6"	FULLY	1' - 6"	SEE B/RW1	
WALL DESIGN CRITERIA									
BEARING	SLOPE TOP	SLOPE BOT	ACTIVE PRESSURE	PASSIVE PRESSURE	FRICTION ANGLE BASE	SLOPE OF BACK OF WALL	SURCHARGE		
1500 psf	$\beta$	$\beta_1$	$\phi_a$	$\phi_p$	$\delta$	$\alpha$	q		

**RW1/6 MASONRY WALL SCHEDULE**

**1. Design Building Code**  
International Building Code, 2015 Edition

**2. Geotechnical Report**  
Firm: EWI  
Project No: RC163913  
Dated: June 30, 2016  
Allowable Bearing Capacity: 1500psf

**3. Geotechnical Criteria**  
Bearing on Stiff Natural Undisturbed Clayey Soils or Compacted and Tested Soils  
Allowable Bearing: 1500 psf, minimum bearing on compacted and tested soils or undisturbed cuts

Friction Angle between Base of Wall and Soil - 17 degrees  
Backfill Soil Parameters:  
Backfill Soil - Natural Clays or Fill Soils  
Backfill Angle of Internal Friction  $\phi = 26$  degrees

Base Soil Parameters:  
Soil at Toe - natural, Undisturbed or Fill Soils  
Angle of Internal Friction  $\phi = 26$  degrees

The backfill soil angle of internal friction referred to above is a composite angle of internal friction and includes both cohesion and angle of internal friction of the soils.

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 with or without rebar is acceptable to be used in the wall construction.

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 above grade portion 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 DirtSavers, LLC. for review, documentation, and file.

Contents	Amount per cubic yard
Type F Fly Ash:	94 lbs.
Fine Aggregate (sand):	3,250 lbs.
Potable Water:	235 lbs.
Type 1 Portland Cement:	376 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  $f_c = 2000$  psi. DirtSavers, LLC. does not require any concrete testing provided the above proportions are verified by way of the "batch tickets".

**5. Construction Reviews**  
DirtSavers, LLC. shall be called for construction review of masonry wall.

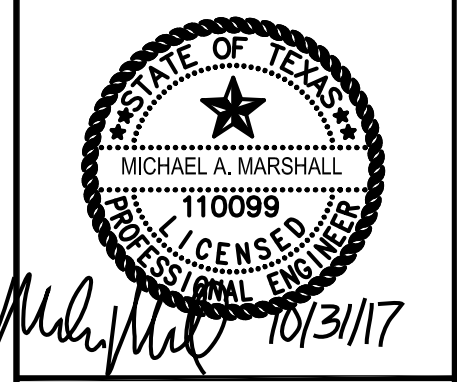
**6. Retaining Wall Design Constraints**  
Retaining walls should not have solid fence placed on top of wall other than that shown on these plans. Retaining walls shall not have additional surcharge placed above the wall other than that shown on these plans. Retaining walls shall not have slope at base or top of wall that exceeds 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.

**DIRTSAVERS**  
2708 Chesapeake Court  
Grapevine, TX 76051  
PH: 469.834.7446  
F-14138

**RIDGECREST**  
MASONRY RETAINING WALLS  
CITY OF ROCKWALL, TEXAS  
**TEXAS - ERW SITE SOLUTION**  
FORT WORTH, TEXAS  
ERW JOB NO. 111118

No.	Date	Item



RETAINING WALL  
DETAILS AND NOTES

Project No. RW081817-2  
Date 08.18.2017  
Last Revision 10.31.2017

**RW1**