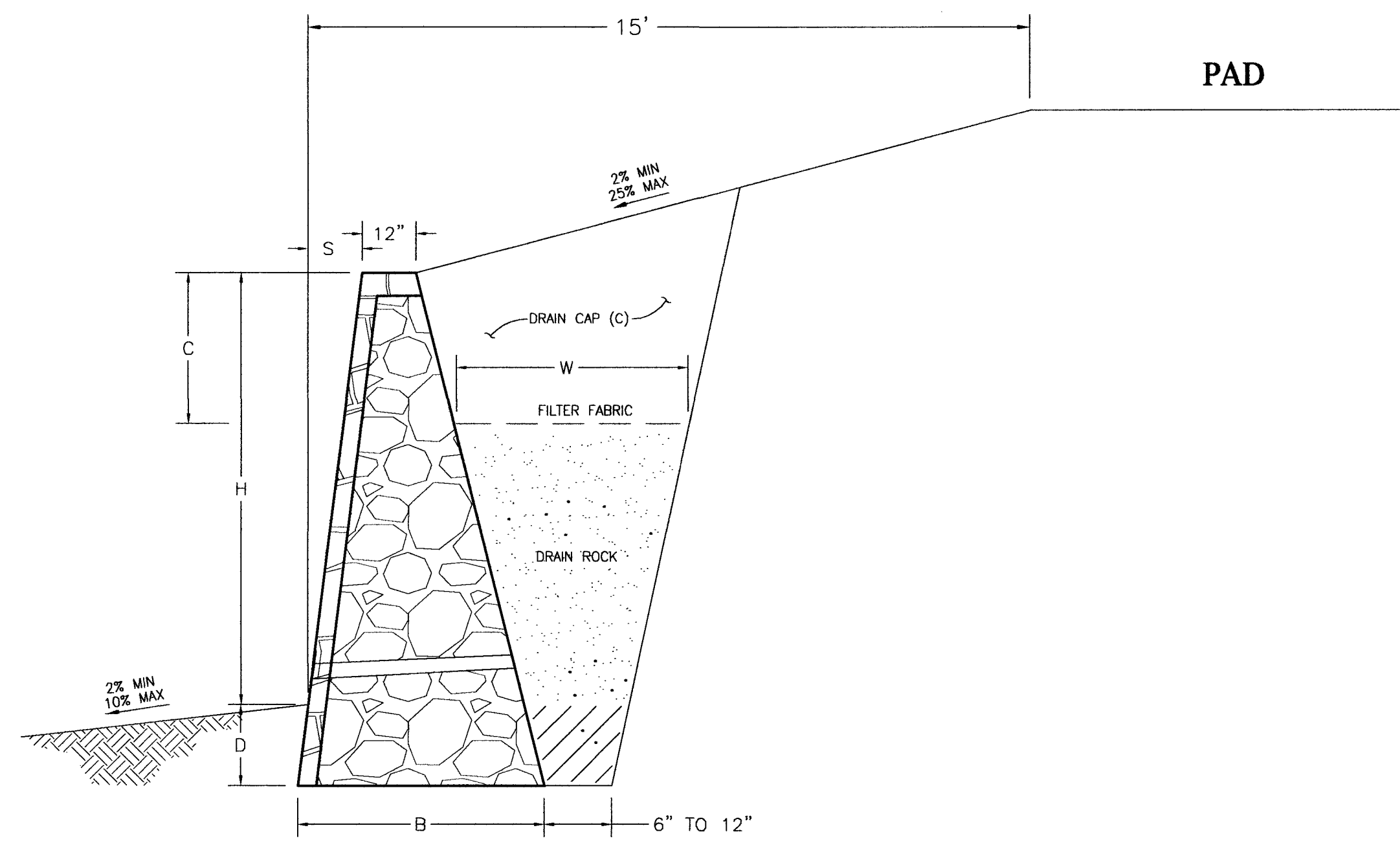


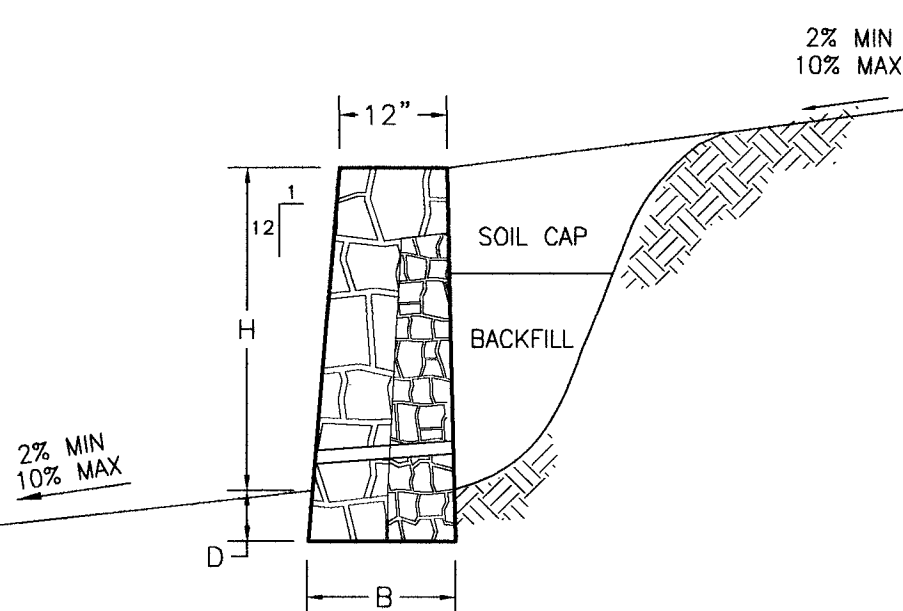
WALL SCHEDULE					
HEIGHT (H)	4'	5'	6'	7'	8'
BASE WIDTH (B)	24"	36"	48"	60"	72"
EMBEDMENT (D)	12"	15"	18"	20"	24"
DRAIN CAP (C) *	24"	24"	24"	28"	32"
BATTER (S)	7.5"	9.5"	11"	13"	15"
DRAIN WIDTH (W)	24"	30"	36"	42"	48"

**B** RETAINING WALL IN PUBLIC R.O.W.  
S1 N.T.S.



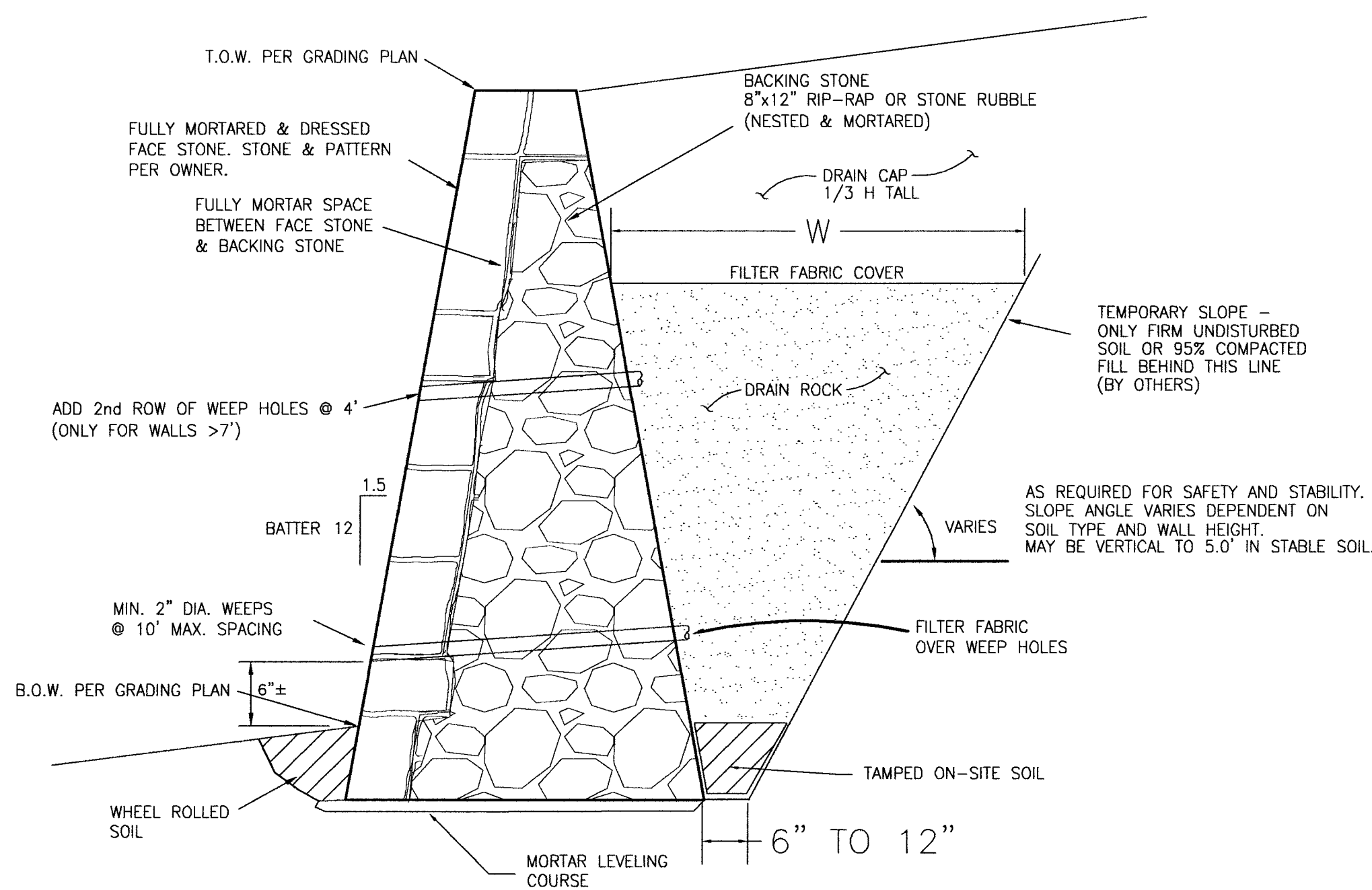
WALL SCHEDULE					
HEIGHT (H)	4'	5'	6'	7'	8'
BASE WIDTH (B)	24"	36"	48"	60"	72"
EMBEDMENT (D)	12"	15"	18"	20"	24"
DRAIN CAP (C) *	24"	24"	24"	28"	32"
BATTER (S)	7.5"	9.5"	11"	13"	15"
DRAIN WIDTH (W)	24"	30"	36"	42"	48"

**C** RETAINING WALL ON PRIVATE PROPERTY  
S1 N.T.S.



WALL SCHEDULE			
HEIGHT (H)	1'	2'	3'
BASE WIDTH (B)	14"	16"	18"
EMBEDMENT (D)	12"	12"	12"
DRAIN CAP (C) *	--	--	--
BATTER (S)	2"	3"	4"

\* GRAVEL BACK FILL REQUIRED FOR H>3.5'



**A** GENERAL CONSTRUCTION  
S1 N.T.S.

**D** LOW RETAINING WALL  
S1 N.T.S.

DESIGN CRITERIA:  
ESP = 40 pcf  
FRICTION = 0.35  
PASSIVE = 100 psf + 225 pcf  
F.S. = 1.50  
MAXIMUM BEARING = 1,500 psf

**GENERAL**

- These plans are based on Weldon Brown Engineering, L.C. grading plan dated 4-16-12. These plans are applicable only for the grading & retained heights (H) shown herein.
- Periodic observation during construction is recommended by or under the direction of a licensed professional engineer experienced in retaining wall design and construction.
- Periodic observations are made only to develop a general opinion regarding the contractor's compliance with project specifications. No warranty or guarantee is provided.
- If conditions change from those described herein, the engineer should be notified immediately to determine the effect, if any, on the retaining wall design.
- Wall design complies with 2006 International Building Code Sections 1610 & 1806.
- SURCHARGE LOADS** - ALLOWED AS SHOWN HEREIN. No surcharge is expected for structures located greater than 1.5H distance from retaining walls.
- TEMPORARY SLOPE** - All fill placed behind the temporary slope should be placed in accordance with the Earthwork recommendations in the geotechnical report.
- Minor movement & cracking is normal and expected for this construction. Maintain ground moisture as uniform as possible. Regular irrigation & positive drainage will reduce but not eliminate cracking.

**MATERIALS**

- All MORTAR shall be minimum 1,800 psi.
- STONE - Face stone & pattern shall be approved by owner. Minimum compressive strength = 5,000 psi.
- BACKING STONE shall be clean 8"x12" rip-rap or face stone rubble. Stones shall be sorted & nested by size to minimize voids.
- DRAIN - ASTM C33 type 57 or 67 angular gravel or crushed stone. Provide filter fabric cover with min. 2 oz/yd weight. Provide min. 2" diameter weep holes @ 10' max. spacing. The drain shall be at least as wide as the minimum dimension (W) provided herein.
- DRAIN CAP - Moist native soil compacted sufficiently to prevent settlement and sinkholes then the ground surface should be graded and sealed to reduce infiltration of runoff. Use equipment & methods that will not damage walls.
- CONTROL JOINTS shall be provided @ max. 25' spacing.
- BACK FILL - Stone rubble mixed with moist native soil and compacted sufficiently to prevent sink holes and low spots. Use only for H < 3.5'.

**FOOTINGS**

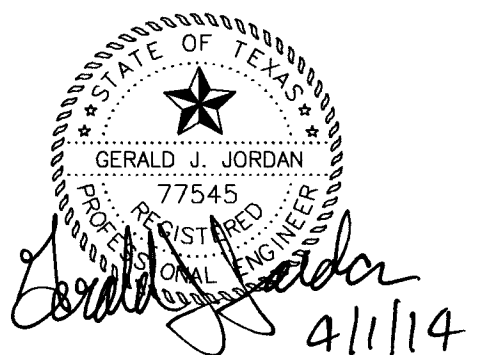
- All walls shall be provided a 1" MORTAR leveling course.
- All walls shall be bedded in UNDISTURBED SOIL OR ROCK to the minimum depth (D) specified on the Wall Schedule.

**BURIED UTILITIES**

- The contractor shall field verify the horizontal and vertical locations of all utilities prior to start of work and shall notify the engineer of any conflicts or if locations are different than shown on the plans.
- Contractor is responsible for protecting existing utilities (shown or not shown) within scope of construction. If any existing utilities are damaged, the contractor shall replace them at his own expense.

**DRAINAGE**

- The contractor shall maintain adequate drainage during all phases of construction. The contractor shall use silt fences and/or straw bales (or any method approved by the regulating agency) as required to prevent silt & water from flowing into or behind walls.
- The owner shall be responsible for maintaining positive drainage and any permanent drainage features throughout the life of the structure.
- Evaluation, assessment, and control of ground water which may pass through or under walls is the responsibility of others.
- Contractor shall comply with all applicable federal, state, or local erosion, conservation, and siltation ordinances. Contractor shall remove all temporary erosion control devices upon completion of work.



**RETAINING WALL DETAILS**  
CULPEPPER STEAK HOUSE  
CITY OF ROCKWALL, TEXAS

**JORDAN CONSULTING ENGINEERS**  
2400 W. PIONEER PARKWAY, SUITE 130, TEXAS 76013 (817) 860-0166  
TXM #1430

DATE: 4-1-14	CHECKED BY: GJJ	SHEET NO.
SCALE: N.T.S.	PROJECT NO. 3189	<b>S1</b>