



*Does not exist*

July 24, 2009

Natural Resources Conservation Service  
420 Water St.  
Kerrville, TX 78028

Regarding: Water Storage Tank Assembly

To Whom It May Concern;

C and M Precast Concrete manufactures several sizes of water storage tanks. Our storage tanks can be from two rings (1800 Gal.) to six ring (5600 Gal.) and meet all the minimum material and manufacturing requirements.

All of our water storage tanks are delivered and assembled on location. Tanks are bedded in 1/2" gravel to provide proper distribution of tank weight and so it can be level. As the tank is being assembled there will be a Butyl Sealant (CS665) a NSF approved water tight gasket seal between each ring. The tank is then grouted on both the inside and out. In addition a cementitious base water proof coating is also applied to the inside.

C and M Precast has been manufacturing and assembling water storage tanks for over 30 years and is dedicated to providing quality products. If you have additional questions please feel free to contact me at (830)367-5988.

Sincerely,

Bob Barker  
Owner



May 26, 2009

### Water Storage Tank Base Ring Certification

- 2 Ring 1800 Gallon
- 3 Ring 2800 Gallon
- 4 Ring 3750 Gallon
- 5 Ring 4700 Gallon
- 6 Ring 5600 Gallon

I Bob Barker certify that the water storage base ring manufactured by C&M Precast meets all the minimum material and manufacturing requirements (including ACI 318 certification by a private engineer) set by the Natural Resources Conservation Service Practice Standard for Watering Facility dated October 2008.

Bob Barker

Owner and President



May 26, 2009

### Water Storage Tank Slick Ring Certification

- 2 Ring 1800 Gallon
- 3 Ring 2800 Gallon
- 4 Ring 3750 Gallon
- 5 Ring 4700 Gallon
- 6 Ring 5600 Gallon

I Bob Barker certify that the water storage slick ring manufactured by C&M Precast meets all the minimum material and manufacturing requirements (including ACI 318 certification by a private engineer) set by the Natural Resources Conservation Service Practice Standard for Watering Facility dated October 2008.

Bob Barker

Owner and President

ISSUE DATE: 06/21/1992  
REVISION DATE: 08/23/2004**MATERIAL SAFETY DATA SHEET****CONSEAL™**  
Concrete Sealants INC.**CS-665**

Non-Toxic Butyl Sealant

**PRODUCT IDENTIFICATION**PRODUCT NAME: CS-665  
PRODUCT DESCRIPTION: Butyl Sealant**H.M.I.S. RATING**  
HEALTH: 0  
FIRE: 1  
REACTIVITY: 0  
PROTECTION: A**NFPA RATING**  
HEALTH: 0  
FIRE: 1  
REACTIVITY: 0  
SPECIAL:**HAZARDOUS INGREDIENTS**

Not applicable for this product.

**HAZARDOUS COMPONENTS**

Not applicable for this product.

**PHYSICAL DATA**SPECIFIC GRAVITY (H<sub>2</sub>O=1): 1.37  
VOLATILE (% VOLUME): 0.00 %  
SOLUBILITY IN WATER: Insoluble  
EVAPORATION RATE (BuAc=1): N/A  
VOLATILE ORGANIC CONTENT: N/A  
APPEARANCE / ODOR: Green tacky solid, slight petroleum odorBOILING POINT : N/A  
MELT / FREEZE PT.: N/A  
VAPOR DENSITY : N/A  
VAPOR PRESURE : N/A**FIRE AND EXPLOSION HAZARD DATA**

FLASH POINT: 400 °F

METHOD USED: COC

FLAMMABLE LIMITS IN AIR, % BY VOLUME: UEL UPPER: N/D

LEL LOWER: N/D

Extinguishing Media: Dry chemical, carbon dioxide, foam, water

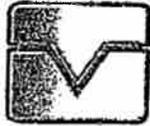
Unusual Fire and Explosion Hazards: None known

Special Fire fighting Procedures: None Known

P.O. Box 176, New Carlisle OH, 45344 • 937.845.8776 or 800.332.7325  
FAX 937-845-3587 • www.conseal.com

ISSUE DATE: 08/21/1992  
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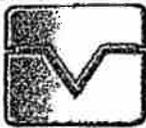
## MATERIAL SAFETY DATA SHEET

**CONSEAL™**  
Concrete Sealants INC.**CS-665**  
Non-Toxic Butyl Sealant**REACTIVITY DATA****STABILITY:** Stable**MATERIALS TO AVOID:** Strong oxidizing agents**CONDITIONS TO AVOID:** None known**HAZARDOUS POLYMERIZATION:** Will not occur**HAZARDOUS DECOMPOSITION OR BY-PRODUCTS:** Upon ignition may form CO<sub>2</sub>, CO, and various hydrocarbon fumes.**HEALTH HAZARDS****ACUTE:** None known**CHRONIC:** None known**SIGNS AND SYMPTOMS OF EXPOSURE:** None known**MEDICAL CONDITIONS GENERALLY AGGRAVATED BY EXPOSURE:** None known**TOXICITY DATA:** National Toxicology Program: No  
I.A.R.C. Monographs: No  
OSHA: No**EMERGENCY AND FIRST AID PROCEDURES:****Eye contact:** Flush with warm water for 15 minutes. If irritation persists, contact a physician.**Skin contact:** wash contaminated area with soap and water.**Ingestion:** DO NOT INDUCE VOMITING, Contact a physician.**ROUTES OF ENTRY:****Inhalation:** No**Eyes:** No**Skin:** No**Ingestion:** Not likely

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## MATERIAL SAFETY DATA SHEET

**CONSEAL™**  
Concrete Sealants INC.**CS-665**

Non-Toxic Butyl Sealant

**PRECAUTIONS FOR SAFE HANDLING AND USE**

**Steps To Be Taken in Case Material Is Released Or Spilled:** Remove sources of ignition.

**Waste Disposal:** Dispose of in accordance with local, state and federal regulations.

**Precautions to be taken in handling and storage:** Rotate stock. Do not stack cartons on end.

**CONTROL MEASURES**

**Respiratory Protection:** Not required under normal applications.

**Ventilation:****Local exhaust:** N/A**Mechanical:** N/A**Special:** N/A**Other:** N/A

**Protective Gloves:** Chemical resistant, Imperious

**Eye Protection:** Safety goggles or glasses

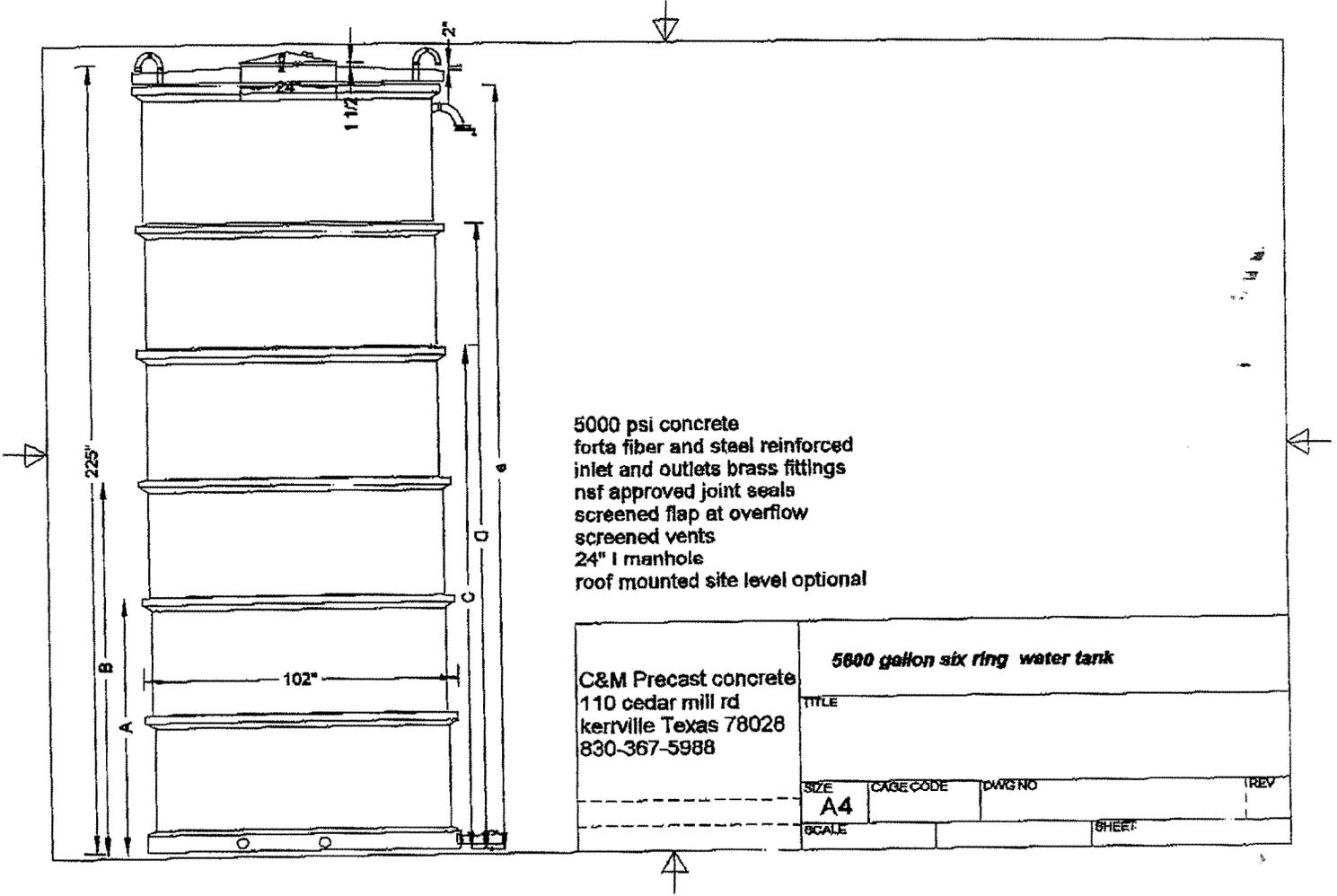
**Other protective clothing or equipment:** N/A

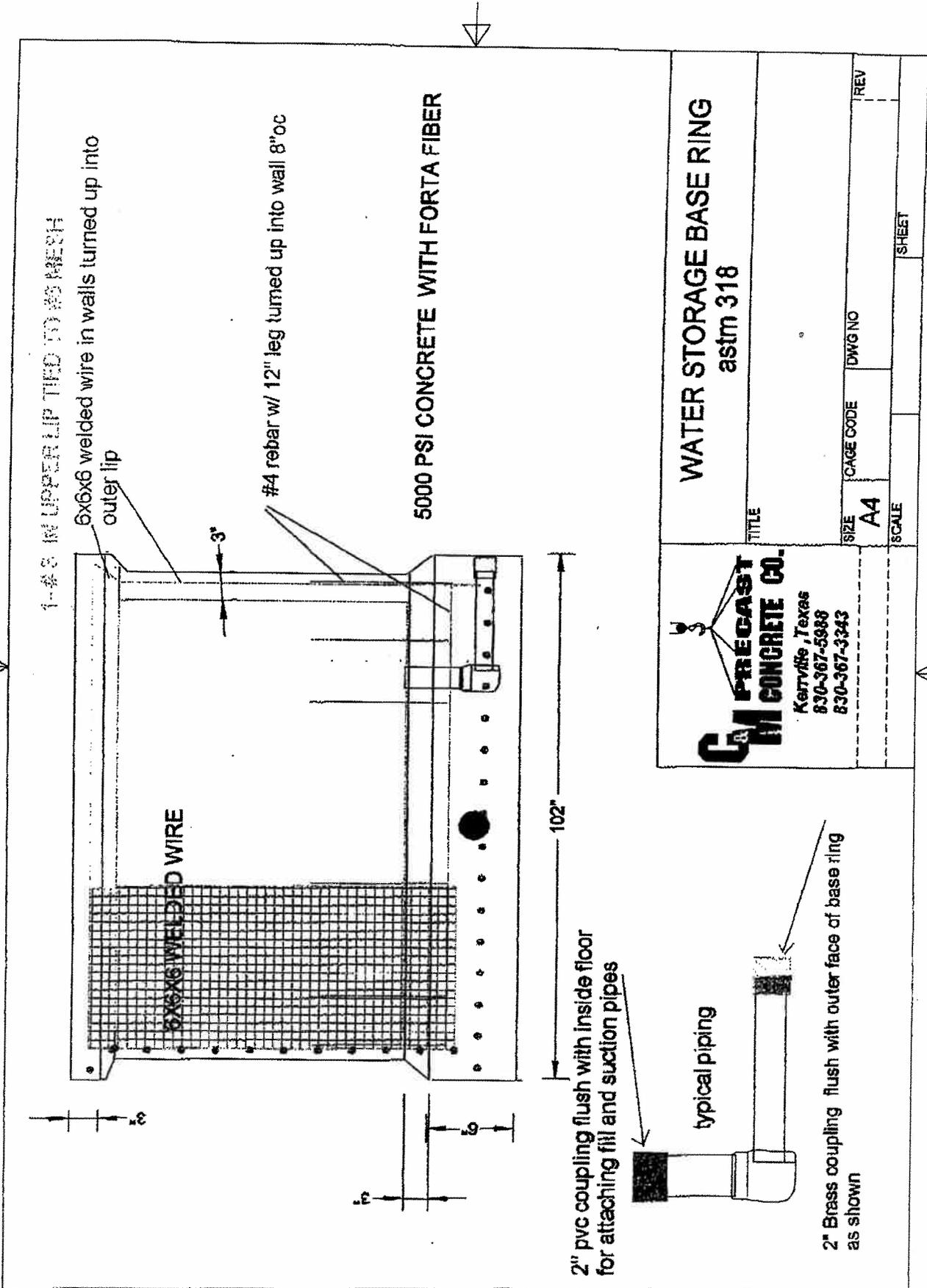
**Hygienic Practices:** Wash hands with soap and water after working with this material. Practice good personal hygiene.

The information and recommendations provided herein are believed to be accurate at the time of preparation obtained from sources believed to be reliable. Concrete Sealants, Inc., makes no warranty, expressed or implied, concerning this document or the accuracy of the information contained herein.

The information and recommendations contained herein are not intended to relieve the reader of responsibility to investigate and understand the laws, procedures, and regulations applicable to the readers enterprise, not to relieve the reader of responsibility to comply with laws applicable to the readers enterprise and place of business and to verify independently the information provided in this document as it may relate to the reader's specific process or application.

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**CA PRECAST CONCRETE CO.**  
 Kerrville, Texas  
 830-367-5388  
 830-367-3343

**WATER STORAGE BASE RING**  
 astm 318

TITLE		REV	
SIZE	PACKAGE CODE	DWG NO	REV
A4			
SCALE		SHEET	

EARTHWORK FOR WATER STORAGE TANKS ON EXPANSIVE SOILS		
PI RANGE	SOILS REPLACEMENT DEPTH	FOOTPRINT OF REPLACEMENT SOILS
0-15	0'-0"	N/A
15-30	1'-0"	9'-6" $\phi$
30-45	2'-3"	10'-6" $\phi$
45-60	4'-0"	11'-6" $\phi$

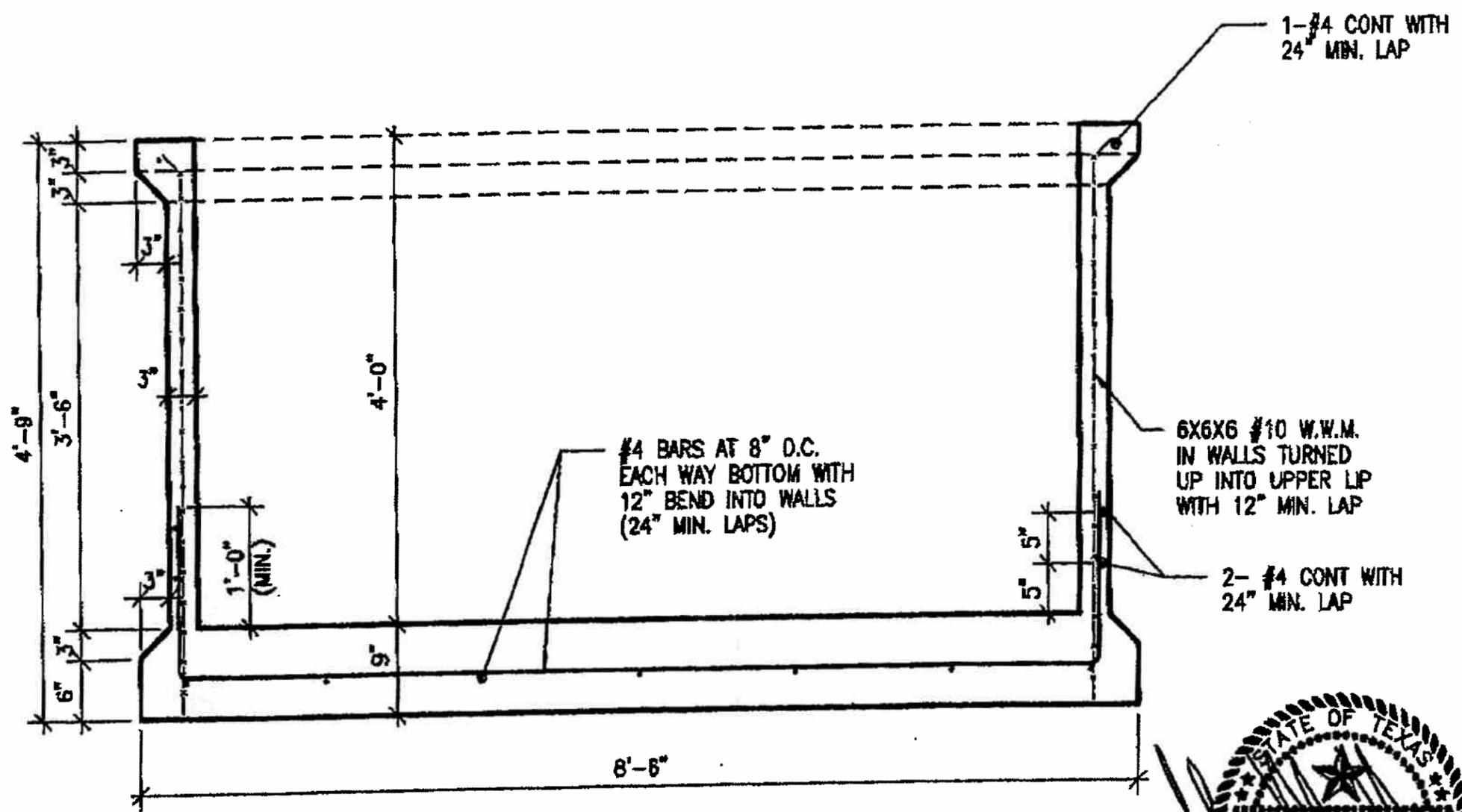
## EARTHWORK:

1. EARTHWORK FOOTPRINT SHALL BE AREA AS DEFINED IN THE TABLE. THE EARTHWORK FOOTPRINT SHALL BE EXCAVATED TO DEPTH SUFFICIENT TO REMOVE ALL BRUSH AND VEGETATION. EXCAVATE SIX INCHES MINIMUM. REFER TO THE TABLE FOR THE MINIMUM DEPTH OF EXCAVATION BASED ON THE EXISTING SOILS PLASTICITY INDEX.
2. ALL FILL REQUIRED SHALL BE COMPACTED IN EIGHT INCH LIFTS AT, OR ABOVE, ITS OPTIMUM MOISTURE CONTENT. ALL FILL REQUIRED TO RAISE TO PROPER SUBGRADE SHALL BE SELECT FILL. SELECT FILL SHALL BE CAPPED WITH 6 INCHES OF GRAVEL.
3. THE SELECT FILL SHOULD HAVE A P.I. BETWEEN 6 AND 15 AND A MAXIMUM LIQUID LIMIT OF 35. THE FILL SHOULD BE INSTALLED IN EIGHT INCH (MAXIMUM) LOOSE LIFTS AND UNIFORMLY COMPACTED TO A MINIMUM OF 95% STANDARD PROCTOR DENSITY AT, OR SLIGHTLY ABOVE, ITS OPTIMUM MOISTURE CONTENT.



SEPTEMBER 28, 2009

HILL COUNTRY STRUCTURAL, INC STRUCTURAL ENGINEERING CONSULTANTS 603 FM 2093, SUITE #1202 FREDERICKSBURG, TEXAS 78624 TEL (830)990-4700 FAX (830)990-4718	WATER STORAGE TANK C&M PRECAST CONCRETE, CO KERRVILLE, TEXAS	DATE: SEPT. 28, 2009 JOB NO.: FILENAME: SHEET NO.: <b>S3</b>
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**WATER STORAGE BASE RING**

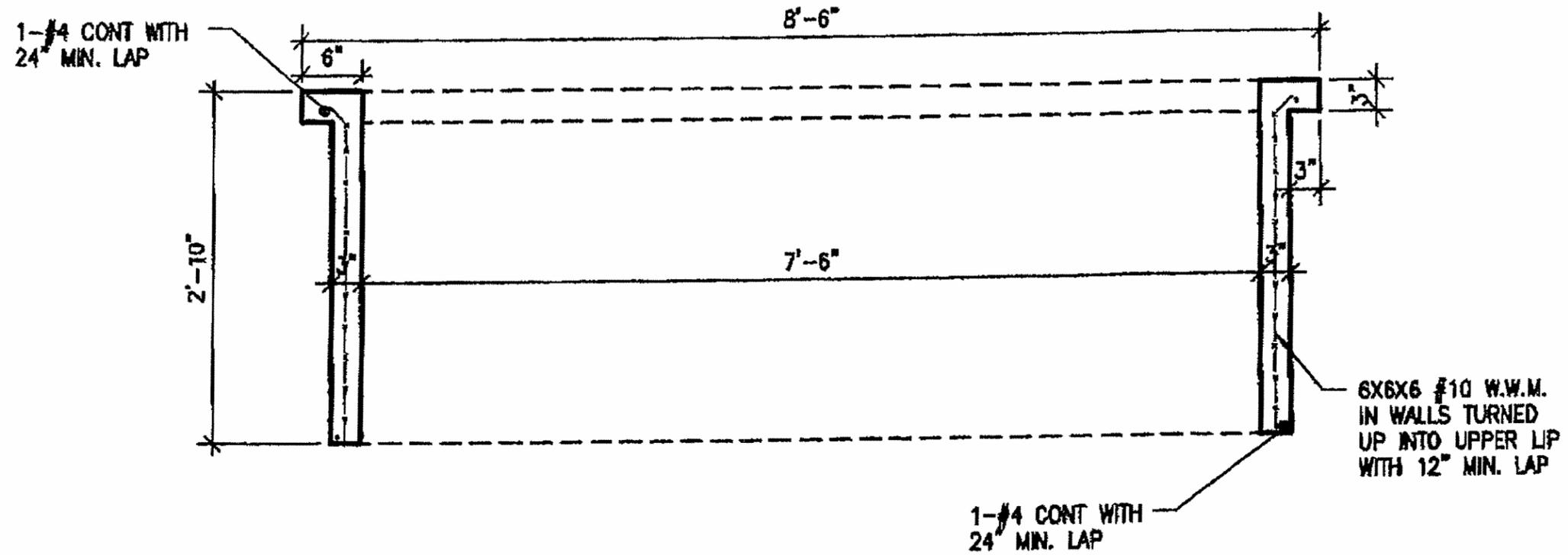
SCALE: 3/4" = 1'-0"

NOTES: 1) CONCRETE SHALL BE 5000 PSI STRENGTH AT 28 DAYS WITH 4 POUNDS OF FORTA FIBER PER CY AND REBAR AS DETAILED.



MAY 19, 2009

<p>HILL COUNTRY STRUCTURAL, INC                  STRUCTURAL ENGINEERING CONSULTANTS                  603 FM 2093, SUITE #1202                  FREDERICKSBURG, TEXAS 78624                  TEL (830)990-4700 FAX (830)990-4718</p>	<p>WATER STORAGE TANK                  C&amp;M PRECAST CONCRETE, CO                  KERRVILLE, TEXAS</p>	<p>DATE: MAY 19, 2009                  JOB NO.:                  FILENAME:                  SHEET NO.: <b>S1</b></p>
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### WATER STORAGE SLICK RING

SCALE: 3/4" = 1'-0"

NOTES: 1) CONCRETE SHALL BE 5000 PSI STRENGTH AT 28 DAYS WITH 4 POUNDS OF FORTA FIBER PER CY AND REBAR AS DETAILED.



MAY 19, 2009

<p>HILL COUNTRY STRUCTURAL, INC STRUCTURAL ENGINEERING CONSULTANTS 603 FM 2093, SUITE #1202 FREDERICKSBURG, TEXAS 78624 TEL (830)990-4700 FAX (830)990-4718</p>	<p>WATER STORAGE TANK C&amp;M PRECAST CONCRETE, CO KERRVILLE, TEXAS</p>	<p>DATE: MAY 19, 2009 JOB NO.: FILENAME: SHEET NO.: S2</p>
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