

ADDENDUM NO. 2
SEWER SYSTEM IMPROVEMENTS
CONTRACT 18-01
15 MG PRESTRESSED CONCRETE STORAGE TANK
PADUCAH MCCRACKEN JOINT SEWER AGENCY
PADUCAH, KENTUCKY
WAUFORD PROJECT NUMBER 2081
CLEAN WATER REVOLVING LOAN FUND #A12-08

Date of Addendum: Wednesday, June 6, 2018
Bid Opening: Tuesday, June 19, 2018, 2:00 P.M. Central Time

1. The following contractors are prequalified to bid this contract:

Crom Corporation
250 S.W. 36th Terrace
Gainesville, FL 32607
Phone: 352-372-3436
Fax: 352-372-6209

Preload
4000 Tower Rd.
Louisville, KY 40219
Phone: 502-964-3361
Fax: 502-966-8732

Precon Corporation
115 SW 140th Terrace
Newberry, FL 32669
Phone: 352-332-1200
Fax: 352-332-1199

2. Attached is the sign in sheet from the pre-bid conference.
3. Detailed Specifications, Section 4. Site Preparation and Development and Piping, Paragraph 8. General Piping and Valve Applications, Subparagraph d. Ductile Iron Pipe (DIP) and Fittings, Item (5) Ductile Iron Pipe and Fittings with Special Lining and (6) Procedures for Sealing Cut Ends and Preparing Field-damaged Areas of Specialty Lined Pipe and Fittings, Pages DS 4-9 and DS 4-10:

Replace Pages DS 4-9 and DS 4-10 with the attached Pages DS 4-9* and DS 4-10*.

4. Detailed Specifications, Section 5. 15 MG Prestressed Concrete Storage Tank and Foundation, Paragraph 3. Qualifications and Responsibilities, Page DS 5-2:

Revise the first sentence of the fourth paragraph as follows:

"The Tank Contractor shall be a firm with at least **ten (10)** years' experience in the design and construction of prestressed concrete tanks."

5. Detailed Specifications, Section 5. 15 MG Prestressed Concrete Storage Tank and Foundation, Paragraph 15. Painting (Coating) of Prestressed Concrete Tank, Subparagraph 6. Logo, Page DS 5-19:

Revise this subparagraph to read as follows:

"g. Logo

The Contractor shall paint the logo included at the end of this Section **in two locations to be determined by the Owner**. The Contractor shall submit a digitally reproduced copy of the logo using actual colors from the proposed paint manufacturer for approval prior to commencing work on the logo."

6. Plans, Sheet 2:

Revise as shown on attached Sheet 2.

J. R. WAUFORD & COMPANY,
CONSULTING ENGINEERS, INC.



J. Gregory Davenport, P.E.
Kentucky License No. 22752

Sign in Sheet – Pre-Bid Conference

SEWER SYSTEM IMPROVEMENTS
CONTRACT NO. 18-01
15 MG PRESTRESSED CONCRETE STORAGE TANK
PADUCAH MCCRACKEN JOINT SEWER AGENCY
PADUCAH, KENTUCKY
WAUFORD PROJECT NO. 2081

JUNE 5, 2018, 10:00 A.M.

Name	Organization	Email or Phone
Greg Davey	Wauford	gregd@jrwanford.com
Talmadge Mincey	CROM	tminc@croncorp.com
Blake Roberts	Crom	broberts@croncorp.com
Terry McNeil	Preload	tmcneil@preload.com
Kit Atkinson	RKA	Kit@RKAConstructionLLC.com
Pete Miner	PRECON CORP.	PDM@PRECONTANKS.COM
John Hodges	JSA	jhodges@jointsewer.com
Josh Webb	JSA	jwebb@jointsewer.com

(5) Ductile Iron Pipe and Fittings with Special Lining

All ductile iron piping shall be lined with a special corrosion resistant lining as specified herein.

All specially lined pipe requires special handling from the outside of the pipe with straps or chains. No forks or hooks shall be used inside the pipe after the lining is applied. Field unloading shall be carefully performed, likewise, stenciled notations (at least 4 per pipe joint and 2 per fitting) shall note these handling limitations.

This specification allows U.S. Pipe Class 350 or American Class 350 pipe with Induron Protecto 401™ ceramic epoxy lining *or approved equal*.

Ceramic epoxy shall be an amine cured Novalec epoxy containing at least 20 percent by volume ceramic quartz pigment. Coupons from factory lined DIP shall undergo the following tests:

- ASTM B 117 Salt spray (scribed panel)
- ASTM G 95 Cathodic Disbondment (1.5 volts @ 77 F) maximum 0.5 mm undercutting after 30 days.
- ASTM D714 Inversion Testing

20 percent sulphuric acid - no effect two years

140°F - 25 percent sodium hydroxide - no effect two years.

160°F - distilled water - no effect two years.

120°F - tap water - no effect two years

- Abrasion resistance - less than 4 mils loss after one million cycles on a +22.5 sliding aggregate slurry tester using sharp natural siliceous aggregate 2 mm to 10 mm.

Surfaces to be lined shall be cleaned of oil and grease with a solvent using the guidelines for DIPRA-1 solvent cleaning and then abrasive blasted to remove rust and loose oxides and the lining applied within 8 hours. If rust reappears, reblast the rusted area.

All surfaces to be lined shall be cleaned to a minimum near-white metal finish as applied to ductile iron pipe and fittings. All surfaces to be lined shall be completely free of moisture, dust, grease, or any other deleterious substances, at the time the lining is applied.

The lining shall cover the inside surface of the pipe and fittings from the spigot end to the gasket socket. The coating in pipe and in fittings shall be 40 mils nominal thickness. Minimum lining thickness shall be 30 mils. Coating thickness on sealing areas in the bell socket and on the spigot may be decreased to 10 mils.

Thickness determinations using a TYPE 1 magnetic thickness gauge shall be conducted in accordance with Steel Structures Painting Council SSPC-PA2 Specification as applied to ductile iron pipe and fittings.

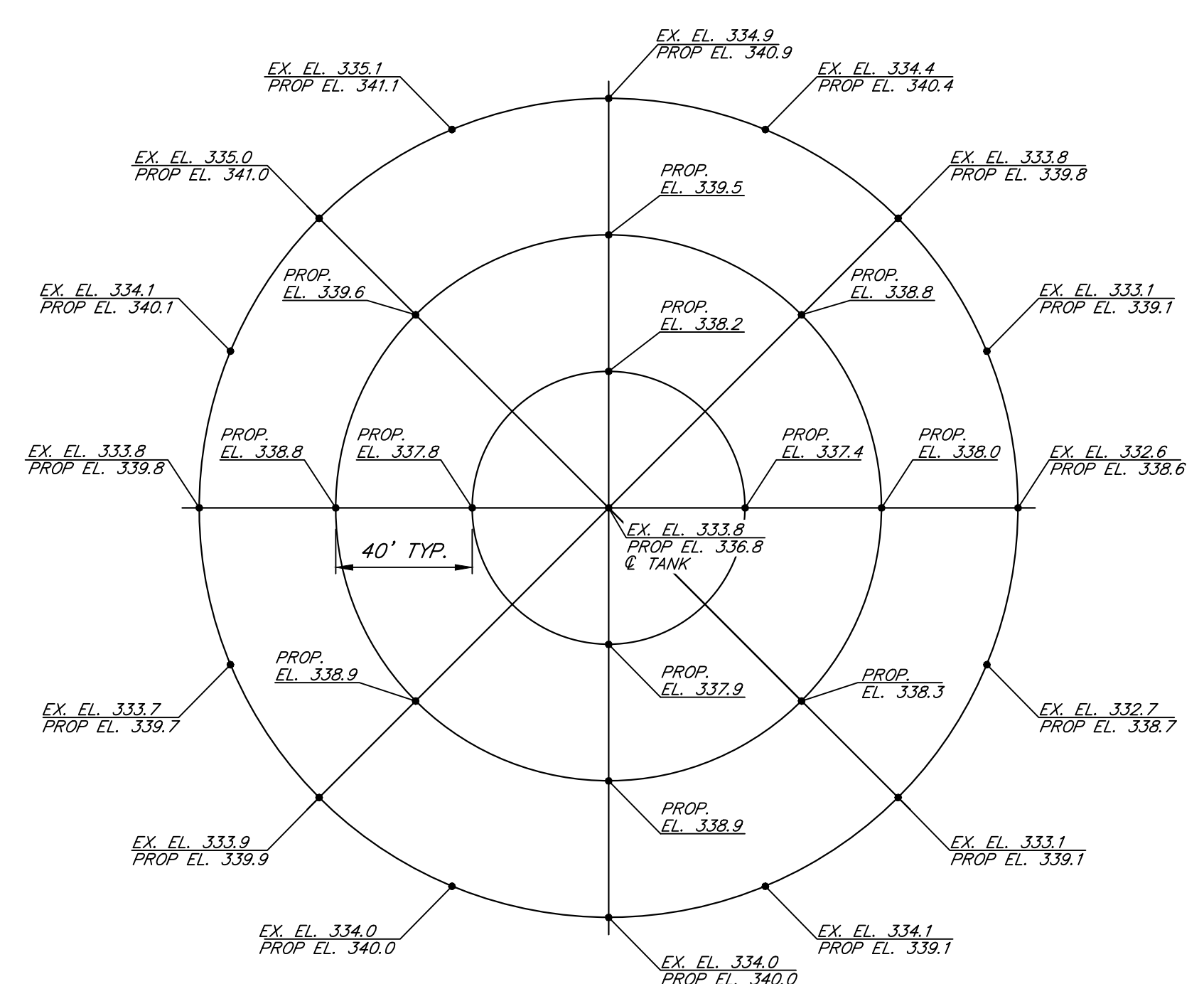
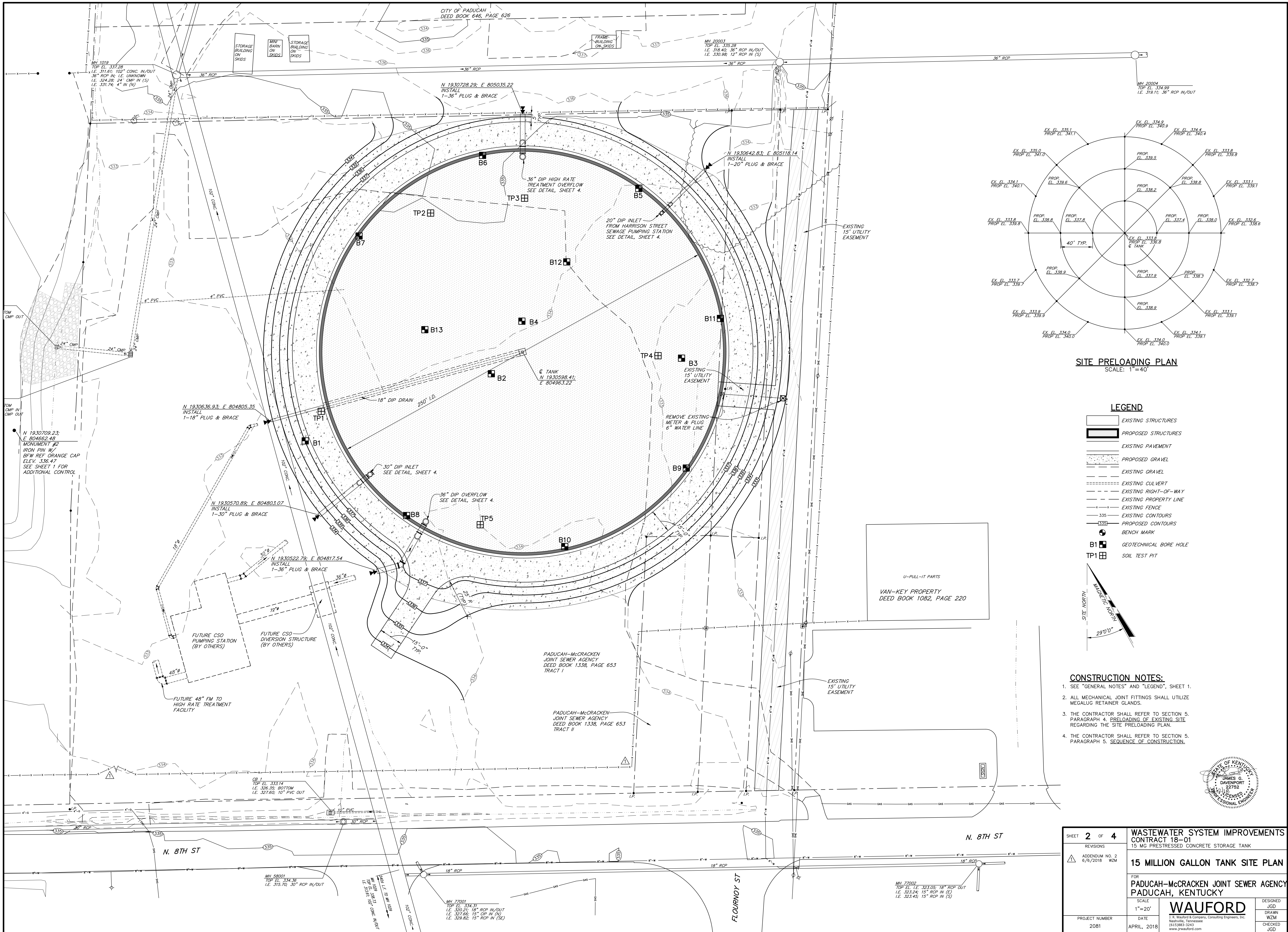
Holiday inspection as per ASTM G-62 Method B shall be conducted using a 2000 volt spark test. In accordance with the coating manufacturer's recommendation, holiday testing may be conducted any time after the coating has reached sufficient cure.

(6) Procedures for Sealing Cut Ends and Preparing Field-damaged Areas of Specially Lined Pipe and Fittings

- (a) Remove burrs caused by field cutting of ends or handling damage and smooth out edge of the lining if it is rough and remove loose liner.
- (b) Remove all traces of oil, grease, dust, dirt, *etc.*
- (c) With the area to be repaired absolutely clean and suitably roughened, apply a coat of Protecto Joint Compound **or approved equal** using the following procedure:

Joint compound is a 7 to 1 (7:1) mix ratio. When mixed, it should contain seven parts of the black activator and one part of the translucent blending resin. This can be accomplished by using the same container to dip out seven containers from the large can and pouring one contained from the small can which contains the resin. This is the simplest and most accurate means for field mixing less than the kit provided. After the blending resin is added to the activator, the mixture should be thoroughly agitated. All activated material must be used within 45 minutes of mixing.

After the material has been thoroughly mixed in a 7 to 1 (7:1) ratio, it can be applied to the prepared surface by brush. Brushing is best due to the fact that the areas to be repaired are usually small. Practices conducive to a good coating are contained in the technical data sheet for Protecto Joint Compound.



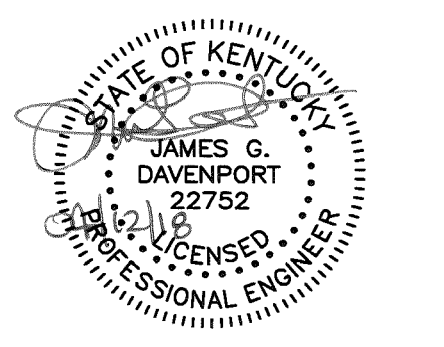
SITE PRELOADING PLAN
SCALE: 1"=40'

LEGEND

- EXISTING STRUCTURES
- PROPOSED STRUCTURES
- EXISTING PAVEMENT
- PROPOSED GRAVEL
- EXISTING GRAVEL
- EXISTING CULVERT
- EXISTING RIGHT-OF-WAY
- EXISTING PROPERTY LINE
- EXISTING FENCE
- EXISTING CONTOURS
- PROPOSED CONTOURS
- BENCH MARK
- B1 TP1

CONSTRUCTION NOTES:

1. SEE "GENERAL NOTES" AND "LEGEND", SHEET 1.
2. ALL MECHANICAL JOINT FITTINGS SHALL UTILIZE MEGALUG RETAINER GLANDS.
3. THE CONTRACTOR SHALL REFER TO SECTION 5, PARAGRAPH 4, PRELOADING OF EXISTING SITE REGARDING THE SITE PRELOADING PLAN.
4. THE CONTRACTOR SHALL REFER TO SECTION 5, PARAGRAPH 5, SEQUENCE OF CONSTRUCTION.



SHEET 2 OF 4	WASTEWATER SYSTEM IMPROVEMENTS CONTRACT 18-01	
	15 MG PRESTRESSED CONCRETE STORAGE TANK	
ADDENDUM NO. 2 6/6/2018 WZM	15 MILLION GALLON TANK SITE PLAN	
FOR PADUCAH-McCRACKEN JOINT SEWER AGENCY PADUCAH, KENTUCKY		
PROJECT NUMBER 2081	SCALE 1"=20'	DESIGNED JGD
DATE APRIL, 2018	WAUFORD J. S. Wauford & Company, Consulting Engineers, Inc. Nashville, Tennessee (615) 883-3243 www.jswauford.com	DRAWN WZM
		CHECKED JGD