

To: All Plan Holders of Record

From: CT Consultants, Inc.  
For the Owner

**Re: Addendum No. 5  
Coffee Creek WWTP Improvements  
Ashtabula County Board of Commissioners**

Date: January 8, 2024

This Addendum forms a part of the contract documents and modifies the original bidding documents dated October 2023 and all previous addenda, if any. Acknowledge receipt of this addendum in the space provided in the bid forms. Failure to do so may subject the bidder to disqualification.

**QUESTIONS and ANSWERS**

Q1. Asphalt paving was added, but not elevations and grades. I also did not see any details on cutting the grass areas and adding compacted stone.

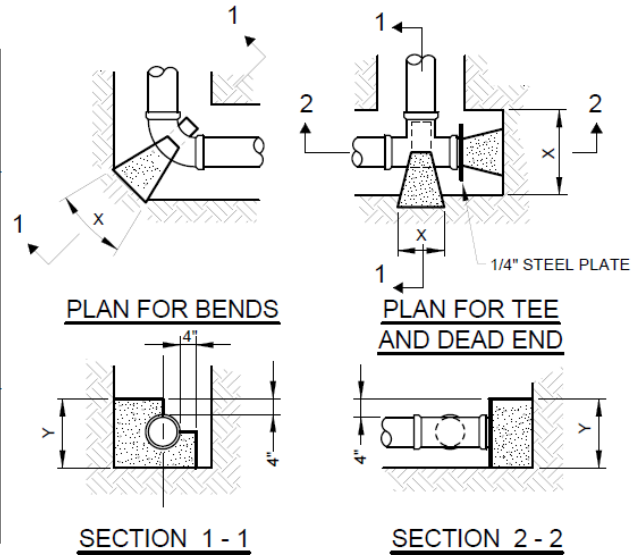
**A1. New pavement shall generally meet the existing finished grade elevations. Assume entire new pavement will require cut to accommodate the new pavement and subbase materials.**

Q2. For 8 SDR26 pressure pipe FM, can you confirm what type of fittings are required?

**A2. Provide gasket push on fittings, ASTM D2241, with thrust blocks per detail. For 4” pipes not in the table use these block areas in SF.:**

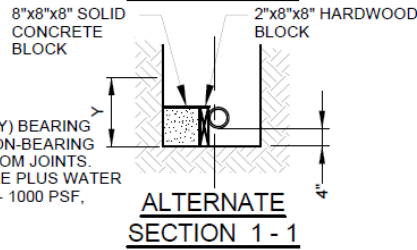
Bend Angle	Assume 1000 psf
22.5 Degr	2
45 Degr	3
90 Degr	5
Tee or Dead End	4

SIZING SCHEDULE		BEARING FACE (X Y) IN SQ. FT.				
PIPE SIZE	22 1/2° BEND SOIL BEARING CAPACITY			45° BEND SOIL BEARING CAPACITY		
	1000 P.S.F.	3000 P.S.F.	5000 P.S.F.	1000 P.S.F.	3000 P.S.F.	5000 P.S.F.
1-1/2	0.28	0.09	0.06	0.54	0.18	0.11
2	0.44	0.15	0.09	0.84	0.28	0.17
2-1/2	0.63	0.21	0.12	1.22	0.41	0.24
3	0.94	0.31	0.19	1.81	0.60	0.36
	90° BEND SOIL BEARING CAPACITY			TEE OR DEAD END SOIL BEARING CAPACITY		
	1000 P.S.F.	3000 P.S.F.	5000 P.S.F.	1000 P.S.F.	3000 P.S.F.	5000 P.S.F.
1-1/2	1.00	0.33	0.20	0.71	0.24	0.14
2	1.50	0.52	0.33	1.09	0.36	0.22
2-1/2	2.20	0.75	0.44	1.58	0.53	0.32
3	3.30	1.12	0.67	2.36	0.79	0.47



ALTERNATE BLOCKING:  
 ALTERNATE SECTION 1 - 1 MAY BE USED FOR  
 FILLINGS REQUIRING LESS THAN 0.50 S.F. OF  
 BEARING FACE FOR THRUST BLOCKING.

ALL CONCRETE BLOCKING MUST HAVE ITS ENTIRE FACE (X & Y) BEARING  
 SURFACE AGAINST UNDISTURBED SOIL AND ALL VERTICAL NON-BEARING  
 SURFACES SHALL BE FORMED SO AS TO KEEP CONCRETE FROM JOINTS.  
 BLOCKING DESIGN BASED ON COMBINED WORKING PRESSURE PLUS WATER  
 HAMMER OF 240 PSI AND FOR BEARING CAPACITY FOR SAND - 1000 PSF,  
 SAND AND GRAVEL - 3000 PSF, SHALE - 5000 PSF.



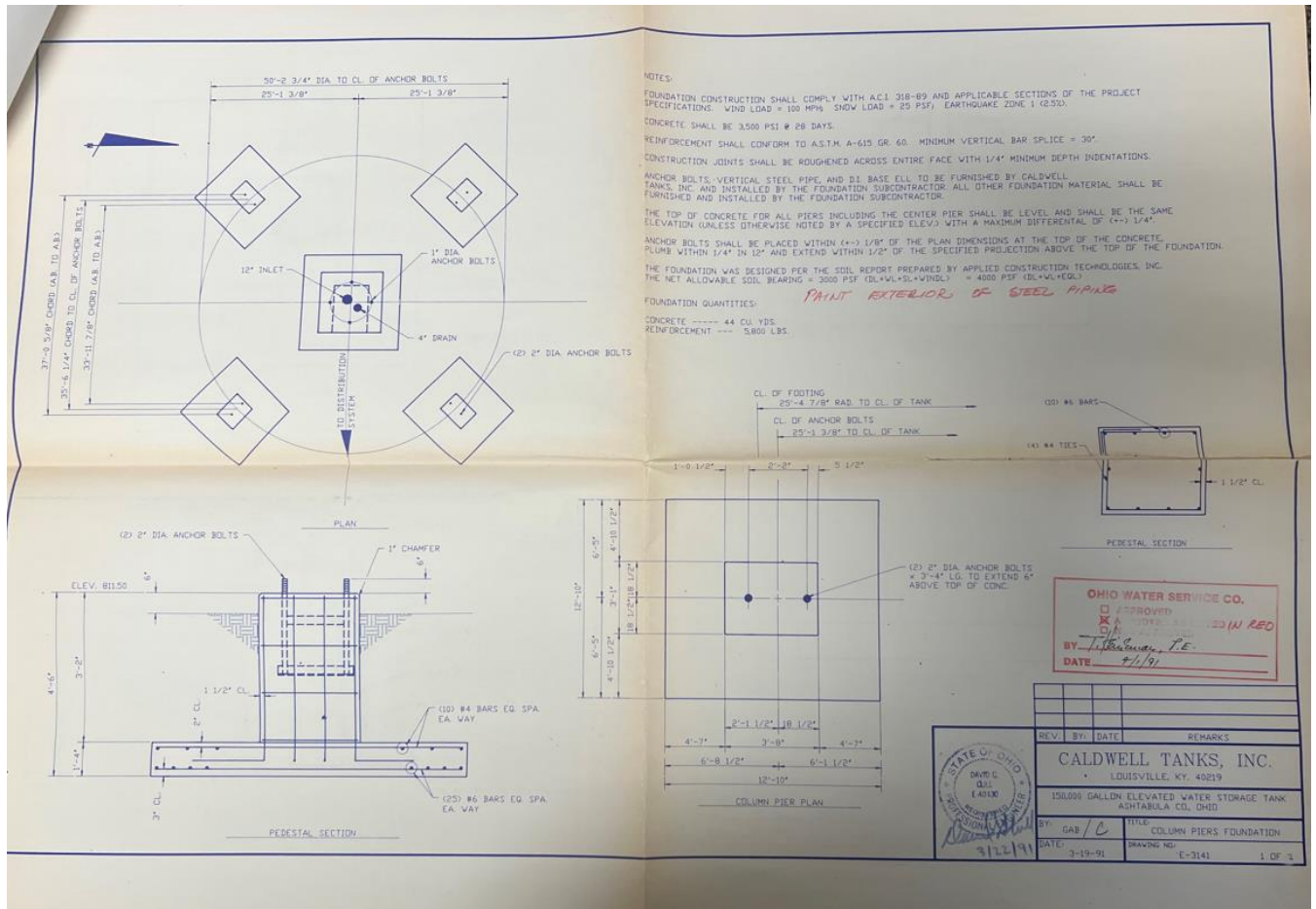
12/91

**THRUST BLOCKING DETAIL**

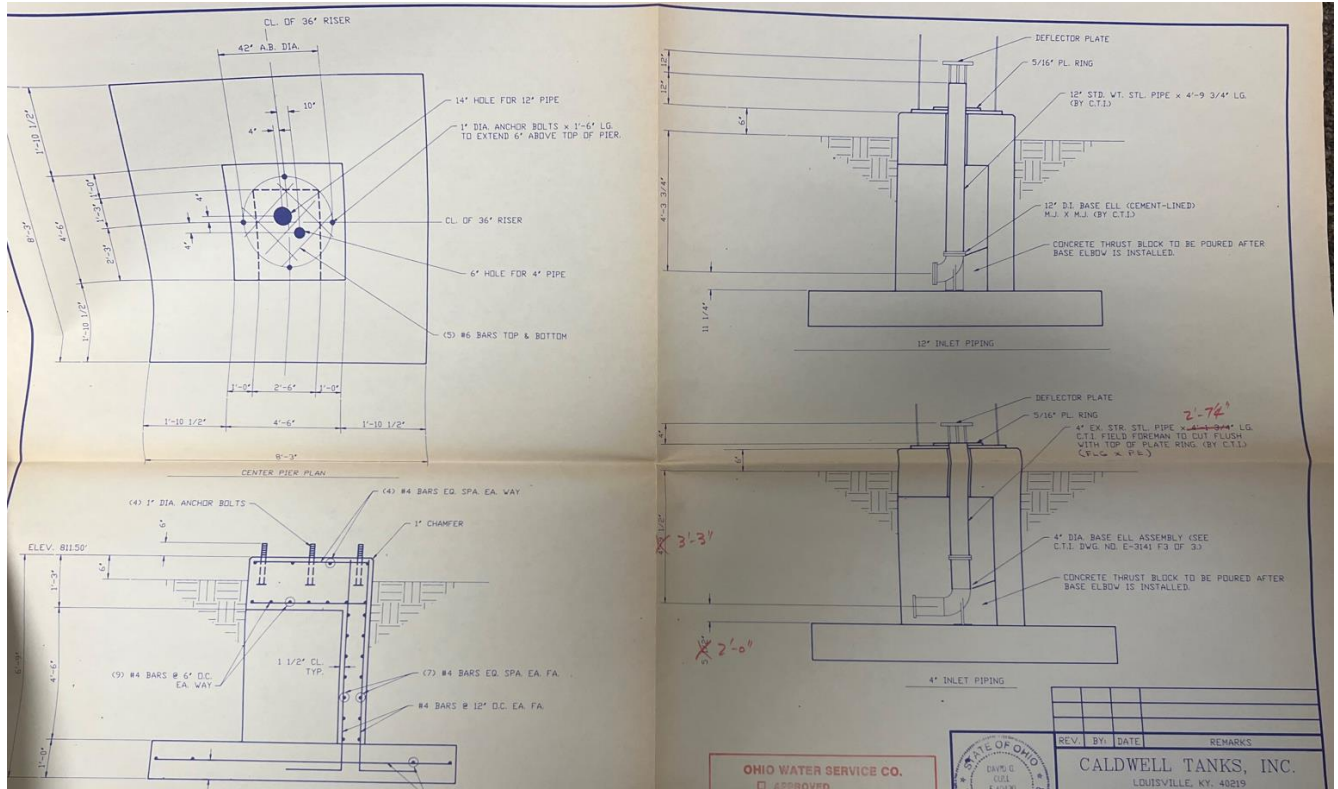
SD-4-6A

Q3. Can you provide us with details on the water tank foundation? We need the information to quote the retention system for the head works building. If not, please provide the design or an allowance for the retention system.

**A3. Below are the original tank drawings for the Outer Piers and Center Pier from Caldwell Tanks.**



**OUTER PIERS**



**CENTER PIER**

Q4. Sheet 05A-01 Headworks Building lists a coiling door that is 16'0" x 8'0". Sheet 50A-01 Sludge Press Building lists a coiling door that is 12'0" x 8'0". The door schedule on sheet SD-A-01, however, seems to have those door sizes reversed.

**A4. The plan and elevation dimensions are correct:**

**Door 05-101 is: 16'-0" wide by 8'-0" high.**

**Door 50-102 is: 12'-0" wide by 8'-0" high.**

TEV:mep

Enclosures