



ADDENDUM NUMBER 4 TO THE CONTRACT DOCUMENTS

Date: July 28, 2017
CH2M HILL Project No.: 660401

for the
LEEDS WWTP UV SYSTEM IMPROVEMENTS
To All Plan Holders:

The following changes, additions, and/or deletions are hereby made part of the Contract Documents for the LEEDS WWTP FOR UV SYSTEM IMPROVEMENTS, dated March 2017, as fully and completely as if the same set forth fully therein:

The following provides a summary of questions/comments and clarifications.

Specifications

1. In Section 44 43 15-5 2.03.E.1.A External Interfaces - **REMOVE** "4) High High Level Alarm."
2. In Section 44 43 15-5 2.03.F.4 Special Requirements - **REMOVE** "LEHH-72x1" from list of electrodes provided.
3. In Section 44 43 15-7 3.02.B Field Quality Control - **REMOVE** 5a "Total head" and 5b "Capacity" as part of the requirements for the Test Log upon completion of the performance test.
4. In Section 01 45 33-5 3.01.A **REMOVE AND REPLACE** with "Requirements of the Statement of Special Inspections are provided by the owner, with the exception of the items listed in Table 1 and Table 3 including geotechnical investigation, compacted fill, concrete testing and high-strength bolting provided by the contractor. All other testing and inspections, unless noted otherwise, are provided by Contractor."
5. In Section 01 45 33 Supplements 5-7 Table 3, **REMOVE AND REPLACE** in the By Whom column "Provided by Contractor" for testing requirements for Compacted fill, Prepared Subgrade, Concrete, and High-Strength Bolting.
6. In Section 46 66 20-8 3.03 Manufacturer's Services, **REMOVE AND REPLACE** numbers 1-2 with:
 1. "5 person-days of onsite supervision of Contractor installation of UV system and completion of Manufacturer's Certificate of Proper Installation.
 2. 12 person-days for functional and performance testing and test certification."

7. In Section 00822-2 1.2. H, **ADD** after paragraph H “J. Insurance will be written by companies authorized to do business in Jefferson County, Alabama and shall include Jefferson County, Alabama as Added Addition Insured by Endorsement including a thirty (30) day(s) written cancellation notice.
1. ADDED ADDITIONAL INSURED BY ENDORSEMENT:
- a. Jefferson County Alabama
 - b. 30 day(s) written cancellation notice.
 - c. Under description of Operations/Locations/Vehicles/Exclusions Added by Endorsement/Special Provisions enter the BID/RFP Number, Project Number or Purchase Order Number Covered by the Certificate of Insurance.”

Questions and Answers

The following questions were submitted by the Skimmer Vendor with CH2M Responses Provided.	
Question	Answer
44 43 15-5 2.03E External Interfaces – Note that the high level alarm called out in E.1.a.4 already exists as part of the existing filter controls. We would recommend that you delete reference to a High High Level from the bid documents.	Deleted Reference to High High Level probe.
44 43 15-5 2.03F Special Requirements – This section calls out for surge suppression on the skimmer control panel, that is receiving power from the existing control panel. The existing control panel does not utilize surge suppression, so it would not make sense to have surge suppression in the skimmer panel, and we would recommend that you delete reference to surge suppression in the skimmer control panel.	Contractor is required to provide surge suppression at the specified locations in Section 44 43 15-5 2.03F.
44 43 15-5 2.03F Special Requirements – This section references there being five level probes for filter/skimmer control. Note that four of these probes already exist in the existing control panel, and so only one new level sensor (for skimmer control) will be supplied with the skimmer control panel.	Deleted reference to High High Level probe.
44 43 15-7 3.02B Field Quality Control – There is not a way to test total head and capacity on an installed skimmer pump. Aqua would offer a certified pump curve, or a shop performance test, in lieu of the field test that is specified. We would request that the reference to a Field Test on the skimmer	Deleted reference to total head and capacity.

be deleted from the specification.	
The following question was submitted by the Bidding Contractor with CH2M Responses Provided.	
Question	Answer
How many Skimmer Systems do we install?	2; 1 each Aqua ABF Filter
Is the project warranty 1 year?	Refer to General and Special Conditions for general project warranty. Specific equipment warranties can be found in the technical specifications.
Do we dispose of the existing pumps, UV equipment, Valves that we remove or do they remain at the site?	Contractor is responsible for proper disposal of all demolished equipment
Are we able to close slide gates in order to bypass the UV chambers and the areas at the new skimmers or will we have to do by-pass pumping? At the UV channels, we assume that there is no time limit on by-passing one of the channels. We assume the channels are redundant.	<p>UV Channels: There is an actuated isolation gate that will remain in place for each UV channels. There is a concrete weir that needs to be demolished ahead of the isolation gate in which some method of isolation and/or bypass pumping would be required.</p> <p>Skimmer Installation: There is a method of isolation to allow access to work on the filters one at a time.</p> <p>UV Bypassing: Each channel's rated capacity is 5 MGD. Contractor activities shall not disrupt plant operations during high flow events.</p>
What is the procedure to by-pass pump when we change out the 2 valves?	Bypass pumping could be required depending on contractor methods of installation and schedule. Any bypass pumping shall conform with Section 01 57 28 Temporary Flow Control and 01 31 13 Project Coordination. Contractor is responsible for not interrupting plant operations during valves changeout. Yarding piping drawing is provided from Leeds WWTP record drawings.
Can we simply open and close valves in order to by-pass when we install the new pumps? Also, do the new Wemco pumps have the same dimensions as the existing pumps or will we have to reconfigure the piping? Will we have to demo the existing pump foundations and pour new ones?	<p>Only one of the three RAS pumps is required for normal plant operation. Contractor shall replace one pump at a time. Coordinate isolation of a pump and closure of required valves for pump isolation with the plant a minimum of 5 days before start of work.</p> <p>In accordance with the requirements of the</p>

	<p>specification the replacement pump and motor are to be the same dimensions/layout as the existing pump. Pump supplier is required to confirm the dimensions/layout and match so that no piping or pump support modifications are required. Contractor should anticipate and include in their cost for the work replacement of mounts, gaskets and flange bolts where loosened/removed to allow installation of a pump.</p>
<p>Under the Temporary Flow Control section in the specs, it says temporary storage of wastewater is available. How much time will the storage areas give us. Do we then pump it back through the UV?</p>	<p>Time available is depend on influent flow to the plant and weather conditions. One oxidation train is currently unused and can be used for temporary storage. Also, onsite there is 5 MGD of stormwater/large rain event storage which will be used at the plant's discretion and stored wastewater will need to be fully treated before discharge. Contractor is to coordinate with plant staff on usage of any storage areas.</p>
<p>Specifications require AISC certified fabricators and erectors. Is this correct. Is this required for the Misc. aluminum, grating, and other metal fabrication other than the canopy. If this is a requirement, do you have names of firms that would erect the canopy. We are trying to locate just one and can't. Can the AISC requirement be waived?</p>	<p>If an AISC certified erector cannot be found, note that there is an alternate 'certification' in Section 05 12 00 1.03.B.3; 'or documented experience in erection of at least five similar structural steel facilities over the past 10 years in lieu of AISC certification.'</p>
<p>It appears that all testing is to be paid for by the owner since it is all "Special Inspections". (Sec. 01 45 33). Is this correct?</p>	<p>Section 01 45 33 is revised above and specifies items to be covered by the Contractor.</p>

What is the weight of the existing UV's to be removed?	Please refer to Trojan on the weight of existing UV system.
Our insurance company just sent me an email concerning the insurance requirements on this job. Our current coverage is standard GC coverage but are not as high as the spec requirements. Their question is can the limits be met using a higher umbrella.	Jefferson County requires the contractor to have a \$1M limit on GL along with a \$4M umbrella limit. The umbrella will sit over the General Liability to give them higher limits and meet the requirements.
This is not an AIS or Buy American Project. Addendum 1, 01 25 00-16, paragraph 1.2 states Buy American Clause.	The Buy American Clause Remains.
Confirm bypassing is not required. I understood from the prebid that one channel can handle all of the flows, such that the other channel can be taken down for work activities	Contractor is required to keep plant working continuously according to specifications and should prepare work plan accordingly.
I have called over 20 AISC fabricators in Alabama and none will bid this job. It is too small. And too cut up. There are only five AISC erectors in Alabama, Tennessee, Florida, Mississippi and Georgia. None will do this job. Can we wave the AISC requirement? If not, we need to know who to call.	If an AISC certified erector cannot be found, note that there is an alternate 'certification' in Section 05 12 00 1.03.B.3; 'or documented experience in erection of at least five similar structural steel facilities over the past 10 years in lieu of AISC certification.'
UV Manufacturer's Services differs from Specification Sections 46 66 20 and 44 44 59	Section 46 66 20 is revised above. Additional cost due to Trojan support should be captured in Bid Item 2.b.

Drawings

1. Record Drawings 25 and 26 from Leeds WWTP Wastewater Improvements Project have been added for reference.

CH2M HILL

Kevin Kennoy, P.E.

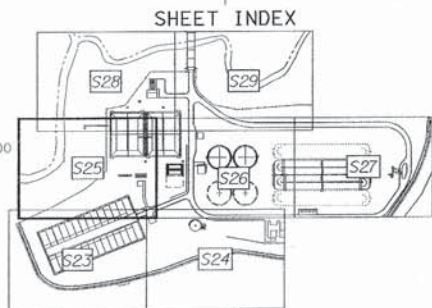
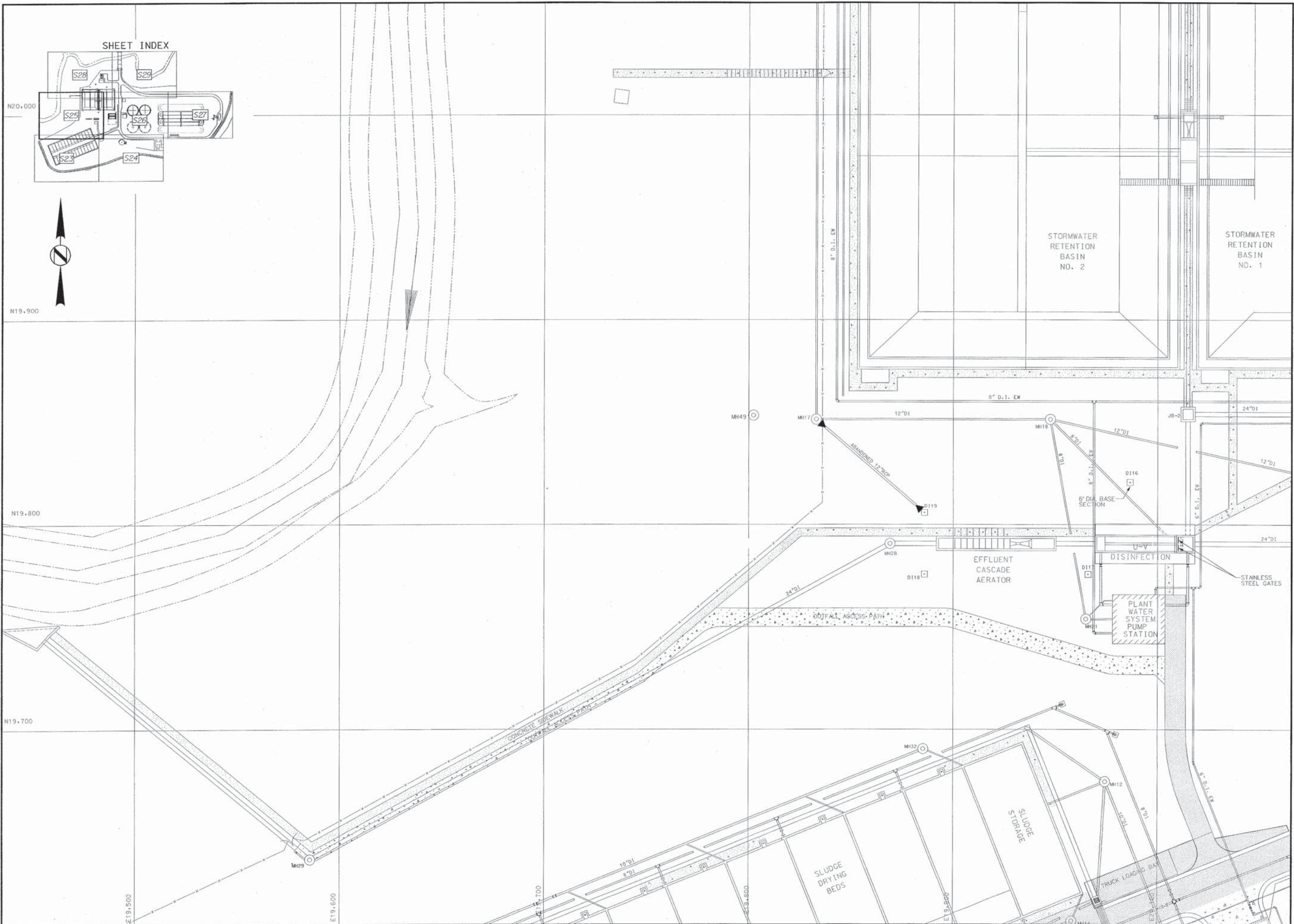


JEFFERSON COUNTY, ALABAMA
 COUNTY COMMISSION
 WASTEWATER IMPROVEMENTS
 NORMAN R. SKINNER WWTP
 LEEDS, ALABAMA

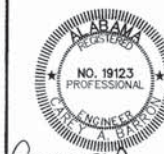
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DRAWN	JEC	
CHECKED	PGR	
APPROVED	CAB	
DATE	APRIL, 1999	
REVISIONS		
NO.	DATE	DESCRIPTION
1	12-00	RECORD DRAWING

**RECORD
DRAWING**

SHEET TITLE	YARD PIPING U-V DISINFECTION AREA
SHEET NO.	25
SEQUENCE	25 OF 139



05 | SITE PLAN | SCALE: 1"=20'



Paul B. Krebs

JEFFERSON COUNTY, ALABAMA
COUNTY COMMISSION
WASTEWATER IMPROVEMENTS
NORMAN R. SKINNER WWTP
LEEDS, ALABAMA

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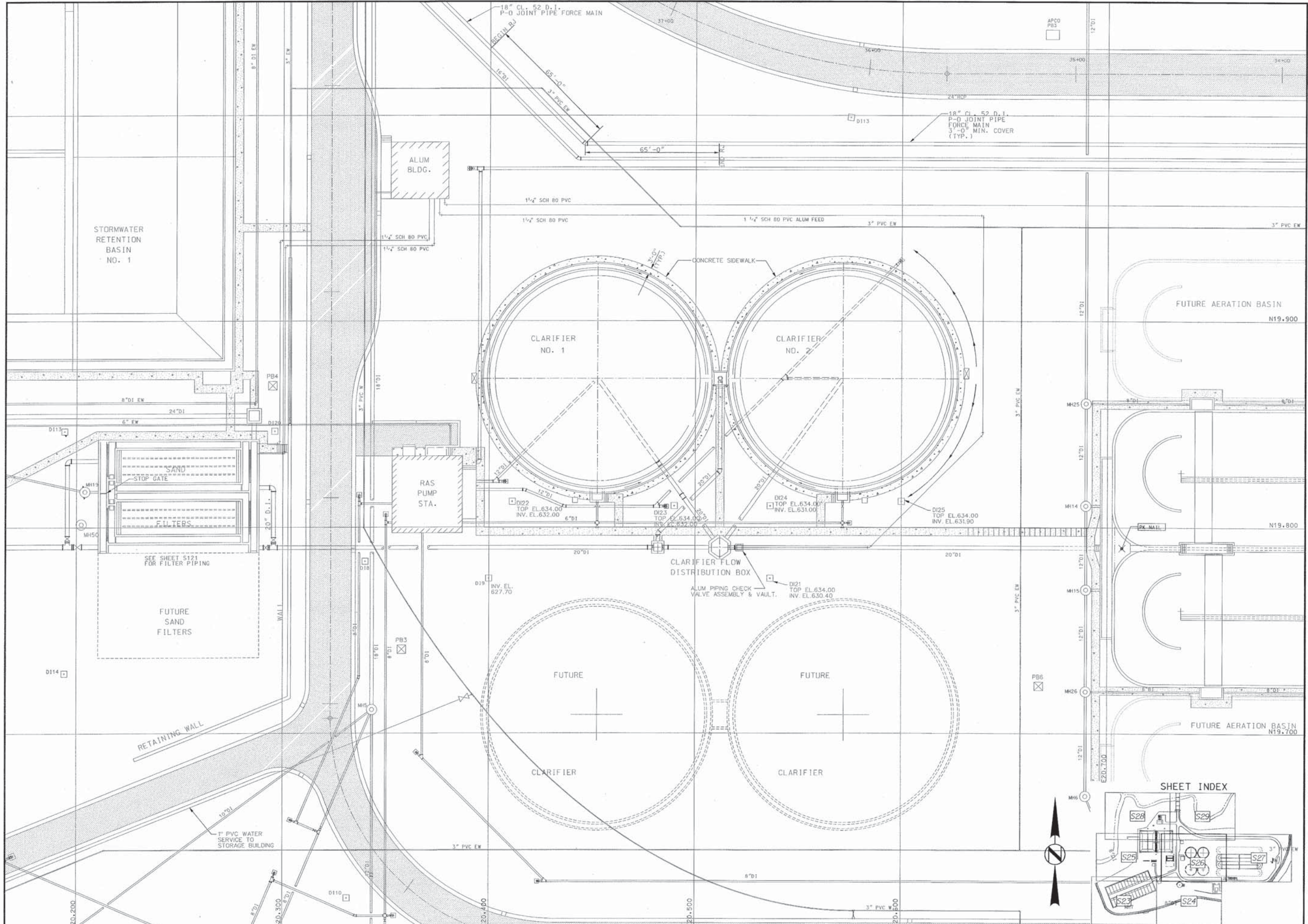
NO.	DATE	DESCRIPTION
1	12-00	RECORD DRAWING

**RECORD
DRAWING**

SHEET TITLE
YARD PIPING
CLARIFIER AREA

SHEET NO.
26

SEQUENCE 26 OF 139



05 SITE PLAN SCALE: 1"=20'